Sample Name		SL-001-SA5DS-SS-0.0-0.5	SL-002-SA5DS-SS-0.0-0.5	SL-002-SA5DS-SB-1.8-2.8	SL-004-SA5DS-SS-0.0-0.5	SL-005-SA5DS-SS-0.0-0.5	SL-005-SA5DS-SB-1.0-2.0	SL-006-SA5DS-SS-0.0-0.5
Sample Date		09/26/2011	09/26/2011	11/14/2011	09/27/2011	09/27/2011	11/09/2011	09/27/2011
SDG		DE253	DE253	DE286	DE256	DE256	DE283	DE283
Start Depth		0	0	1.8	0	0	1	0
End Depth		0.5	0.5	2.8	0.5	0.5	2	0.5
Chemical Name	Unit							
Nitrate	mg/kg	--	--	--	--	--	3	--
Fluoride	mg/kg	4.6 J Q	1.4 J Q	1.2 J Q	2.0 J Q	1.3 J Q	1.2 J Q	1.1 UJ Q
Cyanide	mg/kg	--	--	--	--	--	0.52 U	--
Aluminum	mg/kg	12200	17600	18000	14300	14500	14800	17000
Iron	mg/kg	22900	25100	24900 J Q	26100	21800	26600	23300
Lead	mg/kg	40.1 J A	24.2 J A	6.38 J Q, A	15	11.9	7.68 J Q, E	14.8 J Q, E
Lithium	mg/kg	16.2	20	23.3	20.1	19.4	18.8	19.5
Magnesium	mg/kg	5630	5310	5800	5060	5140	6400	5010
Manganese	mg/kg	305	385	331	289	268	191	278
Mercury	mg/kg	0.0133 J Z	0.0222 J Z	0.106 U	0.0103 J Z	0.0074 J Z	0.0994 U	0.0144 J Z
Molybdenum	mg/kg	0.757 J Q	0.747 J Q	0.493	0.414	0.366	0.333 J Q, E	0.484 J Q, E
Nickel	mg/kg	14.0 J Q, A	15.8 J Q, A	12.2 J Q, A	9.66	10.2	12.9 J Q, E	12.5 J Q, E
Potassium	mg/kg	1760	4290	2830 J Q	2490	2260	1300	3110
Silver	mg/kg	0.0372 J Q, Z	0.0472 J Q, Z	0.0381 J Z	0.0252 J Z	0.0236 J Z	0.0159 J Q, E, Z	0.0259 J Q, E, Z
Sodium	mg/kg	124	101	85.6 J Z	93.6 J Z	91.1 J Z	113	98.3 J Z
Strontium	mg/kg	22	29.6	23.9	20.1 J E	20.9 J E	19.6	26.5
Thallium	mg/kg	0.172 J Q	0.219 J Q	0.206	0.157	0.15	0.134 J Q, E	0.238 J Q, E
Tin	mg/kg	10.1 U B	10.0 U B	10.6 U B	10.1 U B	10.1 U B	10.3 U B	10.6 U B
Titanium	mg/kg	1240	1230	997	1110	999	827	924
Antimony	mg/kg	0.436 J Q	0.309 J Q	0.180 J Q, Z	0.105 J Q, Z	0.112 J Q, Z	0.114 J Q, E, Z	0.203 J FD, Q, E, Z
Arsenic	mg/kg	7.36 J Q	6.53 J Q	4.92 J Q	5.22	4.67	6.45 J Q, E	5.80 J Q, E
Beryllium	mg/kg	0.401	0.482	0.529	0.416	0.424	0.596 J E, Q	0.698 J E, Q
Barium	mg/kg	69.4 J A	105 J A	87.8 J E, A	54.3	51.4	49.8 J E	81.2 J E
Boron	mg/kg	7.49	10.9	11	10.5	9.43	6.19	7.62
Cadmium	mg/kg	0.294 J Q	0.345 J Q	0.214	0.16	0.161	0.128 J Q, E	0.233 J Q, E
Chromium	mg/kg	54.1 J A	48.8 J A	34.5 J Q, A	34.4	32.9	51.3 J Q, E	42.0 J Q, E
Cobalt	mg/kg	7.42	7.83	8.13 J A	5.83	6.46	5.13 J E	6.69 J E
Copper	mg/kg	7.37 J Q	11.0 J Q	7.03	5.54	5.55	5.67 J Q, E	7.68 J Q, E
Vanadium	mg/kg	98.1 J A	84.4 J A	58.3 J A	58.4	56.9	84.3 J Q, E	69.8 J Q, E
Zinc	mg/kg	72.7 J A	75.9 J A	47.3	53.9	50.5	61.9 J Q, E	60.5 J Q, E
Zirconium	mg/kg	12.5	6.76	8.84	5.39	3.56 J Z	9.61	8.03
Calcium	mg/kg	5160	5460	4180	3540 J E	3540 J E	3960	3670
Phosphorus	mg/kg	878	825	615	715	808	868	731
Selenium	mg/kg	0.257 J Q, Z	0.294 J Q, Z	0.143 J Z	0.350 J Z	0.244 J Z	0.299 J E, Z	0.290 J E, Z
Chromium VI	mg/kg	1.0 U	1.0 U	1.1	0.97 J Z	0.92 J Z	0.60 J Z	1.1 UJ FD
Perchlorate (314.0)	ug/kg	30.2 U	30.6 U	32.1 U	30.5 U	30.5 U	31.7 U	33.4 U
Perchlorate (6850)	ug/kg	--	--	--	--	--	--	--
Percent Moisture	%	0.67	2.1	6.6	1.7	1.5	5.3	10.3
pH	pH unit	6.04	7.04	7.27	5.96	6.03	6.09	6.27

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

Appendix A8
Inorganics-Validated Data
HSA-5DS

Sample Name		SL-007-SA5DS-SS-0.0-0.5	SL-008-SA5DS-SS-0.0-0.5	SL-009-SA5DS-SS-0.0-0.5	SL-010-SA5DS-SS-0.0-0.5	SL-010-SA5DS-SB-2.0-3.0	SL-013-SA5DS-SS-0.0-0.5	SL-013-SA5DS-SB-4.0-5.0
Sample Date		09/28/2011	09/28/2011	09/28/2011	09/28/2011	11/08/2011	09/28/2011	10/18/2011
SDG		DE257	DE257	DE257	DE257	DE282	DE257	DE271
Start Depth		0	0	0	0	2	0	4
End Depth		0.5	0.5	0.5	0.5	3	0.5	5
Chemical Name	Unit							
Nitrate	mg/kg	--	--	--	--	3.6	--	--
Fluoride	mg/kg	1.0 UJ Q	1.1 J Q	1.0 UJ Q	1.0 UJ Q	1.6 J Q	0.93 J Q, Z	2.2 J E, Q
Cyanide	mg/kg	--	--	--	--	0.54 U	--	--
Aluminum	mg/kg	17200	11700	17500	16800	16100	17600	23300
Iron	mg/kg	22700	17900	21900	22100	24400	21300	25000
Lead	mg/kg	14.2 J Q	5.33 J Q	14.8 J Q	18.9 J Q	5.17 J E	14.2 J Q	7.64 J Q, E
Lithium	mg/kg	16.3	25.1	15.6	16.7	17.8	17.2	23.2
Magnesium	mg/kg	4860	4490	4660	4590	5660	4330	5430
Manganese	mg/kg	257	258	282	298	164	294	281
Mercury	mg/kg	0.0981 U F	0.0979 U	0.0983 U F	0.0947 U F	0.0091 J Z	0.0997 U F	0.111 U
Molybdenum	mg/kg	0.705 J Q	0.439 J Q	0.696 J Q	0.792 J Q	0.196 J Q, E	0.839 J Q	0.585 J Q, E
Nickel	mg/kg	12.7 J Q	12.0 J Q	13.4 J Q	15.9 J Q	10.4 J Q, E	14.0 J Q	16.7 J E, Q
Potassium	mg/kg	2500	2850	2680	2660	1210	3170	1790
Silver	mg/kg	0.0242 J Q, Z	0.0787 J Q, Z	0.0309 J Q, Z	0.0320 J Q, Z	0.0165 J Q, E, Z	0.0405 J Q, Z	0.0267 J Q, Z
Sodium	mg/kg	87.7 J Z	69.5 J Z	88.4 J Z	91.2 J Z	123	85.1 J Z	102 J Z
Strontium	mg/kg	24.5	10.8	26.8	24.9	19.8	25.1	25.4
Thallium	mg/kg	0.184 J Q	0.284 J Q	0.216 J Q	0.248 J Q	0.101 J Q, E, Z	0.210 J Q	0.272 J Q
Tin	mg/kg	10.1 U B	9.99 U B	10.2 U B	10.0 U B	10.9 U B	10.1 U B	10.8 U B
Titanium	mg/kg	1180	1110	1160	1200	1050	1200	1090
Antimony	mg/kg	0.271 J Q	0.105 J Q, Z	0.294 J Q	0.307 J Q	0.160 J Q, E, Z	0.229 J Q	0.128 J Q, Z
Arsenic	mg/kg	6.01 J Q	4.51 J Q	6.31 J Q	7.13 J Q	6.23 J Q, E	5.71 J Q	6.34 J Q, E
Beryllium	mg/kg	0.643	0.523	0.694	0.766	0.469 J E, Q	0.739	0.896 J Q, E
Barium	mg/kg	79.1	97.4	90.8	101	38.2 J E	93.1	92.1 J E
Boron	mg/kg	8.27	4.38 J Z	7.25	7.3	5.84	7.27	5.39 U
Cadmium	mg/kg	0.203 J Q	0.125 J Q	0.221 J Q	0.297 J Q	0.0665 J Q, E, Z	0.240 J Q	0.143 J Q
Chromium	mg/kg	37.6 J Q	16.6 J Q	38.3 J Q	46.2 J Q	36.8 J Q, E	37.9 J Q	45.8 J Q, E
Cobalt	mg/kg	6.77 J Q	6.13 J Q	7.48 J Q	9.03 J Q	3.85 J E	7.23 J Q	9.22 J Q
Copper	mg/kg	7.44 J Q	7.88 J Q	8.34 J Q	9.76 J Q	3.98 J Q, E	8.80 J Q	8.96 J Q, E
Vanadium	mg/kg	64.8	34.9	65.4	77	66.2 J E	63.5	78.1 J Q, E
Zinc	mg/kg	57.8	72.7	61.2	73.5	42.9 J E	61.9	60
Zirconium	mg/kg	6.09	0.970 J Z	5.85	6.14	15	3.72 J Z	7.64
Calcium	mg/kg	3100	2820	3230	3450	3440	3010	3120
Phosphorus	mg/kg	594	340	586	660	661	585	491
Selenium	mg/kg	0.204 J Z	0.0809 J Z	0.222 J Z	0.252 J Z	0.203 J E, Z	0.217 J Z	0.304 J Q, Z
Chromium VI	mg/kg	1.1	0.48 J Z	0.68 J Z	0.21 J Z	0.47 J Z	0.97 U	0.52 J Z
Perchlorate (314.0)	ug/kg	30.5 U	30.6 U	30.5 U	30.4 U	33.4 U	30.7 U	34.0 U
Perchlorate (6850)	ug/kg	--	5.1 U	--	--	--	--	--
Percent Moisture	%	1.5	1.9	1.5	1.4	10.3	2.2	11.7
pH	pH unit	6.2	6.33	5.96	6.05	7.06	5.85	7.67

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

Sample Name		SL-014-SA5DS-SS-0.0-0.5	SL-015-SA5DS-SS-0.0-0.5	SL-015-SA5DS-SB-3.5-4.5	SL-016-SA5DS-SS-0.0-0.5	SL-016-SA5DS-SB-4.0-5.0	SL-017-SA5DS-SS-0.0-0.5	SL-019-SA5DS-SS-0.0-0.5
Sample Date		09/28/2011	09/28/2011	10/18/2011	09/28/2011	10/19/2011	09/28/2011	09/27/2011
SDG		DE257	DE257	DE271	DE257	DE272	DE257	DE256
Start Depth		0	0	3.5	0	4	0	0
End Depth		0.5	0.5	4.5	0.5	5	0.5	0.5
Chemical Name	Unit							
Nitrate	mg/kg	--	--	--	--	--	--	--
Fluoride	mg/kg	1.0 U	1.0 U	1.5 J E, Q	1.0 U	2.5	1.3	1.3 J Q
Cyanide	mg/kg	--	--	--	--	--	--	--
Aluminum	mg/kg	18200	17700	18800	17600	21500	16600	16100
Iron	mg/kg	22400	22500	23800	22400	27000	22300	21900
Lead	mg/kg	11.9 J Q	11.6 J Q	7.22 J Q, E	13.3 J Q	5.59 J E, Q, A	30.0 J Q	10.5
Lithium	mg/kg	18.3	17.6	20.4	17	19.9	17.2	17.8
Magnesium	mg/kg	4840	4560	5530	4630	5280	4760	5120
Manganese	mg/kg	306	273	239	309	303	273	252
Mercury	mg/kg	0.101 U F	0.0472 J Z	0.107 U	0.102 U	0.104 U	0.0978 U F	0.0135 J Z
Molybdenum	mg/kg	0.685 J Q	0.779 J Q	0.498 J Q, E	0.726 J Q	0.538	0.808 J Q	0.351
Nickel	mg/kg	11.6 J Q	15.5 J Q	14.6 J E, Q	15.7 J Q	12.6 J Q, A	17.8 J Q	10.4
Potassium	mg/kg	2730	3100	2080	3510	1690	2390	2830
Silver	mg/kg	0.0258 J Q, Z	0.0297 J Q, Z	0.0200 J Q, Z	0.0328 J Q, Z	0.0268 J Z	0.0461 J Q, Z	0.0210 J Z
Sodium	mg/kg	93.6 J Z	84.7 J Z	109	80.5 J Z	110	97.7 J Z	86.7 J Z
Strontium	mg/kg	26.7	25.2	25.6	27.1	27.5	30.7	20.2 J E
Thallium	mg/kg	0.186 J Q	0.233 J Q	0.226 J Q	0.245 J Q	0.222	0.245 J Q	0.173
Tin	mg/kg	9.95 U B	9.87 U B	10.5 U B	10.3 U B	10.8 U B	9.97 U B	9.97 U B
Titanium	mg/kg	1210	1220	1040	1220	1480	1140	1120
Antimony	mg/kg	0.242 J Q	0.305 J Q	0.150 J Q, Z	0.287 J Q	0.215 UJ B, Q	0.328 J Q	0.0922 J Q, Z
Arsenic	mg/kg	4.58 J Q	6.25 J Q	5.91 J Q, E	5.99 J Q	5.58 J E, Q	6.84 J Q	4.73
Beryllium	mg/kg	0.584	0.732	0.774 J Q, E	0.768	0.712	0.812	0.464
Barium	mg/kg	76.9	101	90.8 J E	104	65.0 J A	104	64.8
Boron	mg/kg	7.05	7.07	5.27 U	7.67	2.00 J Z	8.34	9.42
Cadmium	mg/kg	0.210 J Q	0.279 J Q	0.151 J Q	0.286 J Q	0.119	0.338 J Q	0.191
Chromium	mg/kg	31.3 J Q	39.8 J Q	41.8 J Q, E	38.1 J Q	36.8 J Q, A	43.4 J Q	34.8
Cobalt	mg/kg	5.97 J Q	8.50 J Q	9.72 J Q	8.95 J Q	6.94 J A	10.6 J Q	6.28
Copper	mg/kg	7.35 J Q	9.03 J Q	8.23 J Q, E	9.83 J Q	6.80 J Q	10.5 J Q	5.38
Vanadium	mg/kg	53.2	71.2	72.2 J Q, E	66.9	66.2 J A	78.8	58.8
Zinc	mg/kg	51.4	65.7	60.2	65.4	50.7	80	48.4
Zirconium	mg/kg	2.65 J Z	5.38	6.73	4.97 J Z	13	6.1	7.94
Calcium	mg/kg	3290	3290	3190	3460	3090	4170	3250 J E
Phosphorus	mg/kg	717	643	550	642	432 J Q, E	706	668
Selenium	mg/kg	0.216 J Z	0.241 J Z	0.303 J Q, Z	0.220 J Z	0.154 J Z	0.253 J Z	0.190 J Z
Chromium VI	mg/kg	0.53 J Z	1	2.1	0.73 J Z	0.56 J Z	1.4	1.0 U
Perchlorate (314.0)	ug/kg	30.5 U	30.8 U	33.2 U	683	32.6 U	30.5 U	30.5 U
Perchlorate (6850)	ug/kg	--	5.1 U	--	--	--	--	--
Percent Moisture	%	1.5	2.6	9.6	4.9	8.1	1.7	1.7
pH	pH unit	5.66	6.1	6.76	5.87	7	6.27	5.9

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

Appendix A8
Inorganics-Validated Data
HSA-5DS

Sample Name		SL-019-SA5DS-SB-2.0-3.0	SL-020-SA5DS-SS-0.0-0.5	SL-021-SA5DS-SS-0.0-0.5	SL-021-SA5DS-SB-2.0-3.0	SL-022-SA5DS-SS-0.0-0.5	SL-022-SA5DS-SB-4.0-5.0	SL-023-SA5DS-SS-0.0-0.5
Sample Date		11/08/2011	09/27/2011	09/27/2011	11/09/2011	09/27/2011	11/09/2011	09/27/2011
SDG		DE282	DE256	DE256	DE283	DE256	DE283	DE256
Start Depth		2	0	0	2	0	4	0
End Depth		3	0.5	0.5	3	0.5	5	0.5
Chemical Name	Unit							
Nitrate	mg/kg	3.2	--	--	--	--	--	--
Fluoride	mg/kg	2.1 J Q	1.8 J Q	1.5 J Q	1.2 J Q	1.0 UJ Q	1.6 J Q	1.7 J Q
Cyanide	mg/kg	0.54 U	--	--	--	--	--	--
Aluminum	mg/kg	17700	15300	15600	15100	16100	18900	15000
Iron	mg/kg	26200	21400	21000	27800	22800	26600	22000
Lead	mg/kg	4.57 J E	12.4	8.71	4.61 J Q, E	9.99	5.91 J Q, E	12.3
Lithium	mg/kg	17.8	18.3	17.7	13	20.2	24	20.5
Magnesium	mg/kg	5850	4930	5000	3710	5050	5850	5540
Manganese	mg/kg	238	281	399	3560	306	289	267
Mercury	mg/kg	0.106 U	0.0088 J Z	0.0115 J Z	0.0157 J Z	0.0193 J Z	0.104 U	0.0118 J Z
Molybdenum	mg/kg	0.218 J Q, E	0.438	0.365	0.647 J Q, E	0.457	0.438 J Q, E	0.38
Nickel	mg/kg	9.74 J Q, E	10.1	10.4	14.0 J Q, E	10.8	13.9 J Q, E	10.2
Potassium	mg/kg	1160	2670	2370	1290	3490	1680	1770
Silver	mg/kg	0.104 UJ E	0.0708 J Z	0.0207 J Z	0.0161 J Q, E, Z	0.0204 J Z	0.0210 J Q, E, Z	0.0152 J Z
Sodium	mg/kg	117	88.1 J Z	91.3 J Z	95.0 J Z	83.9 J Z	115	98.7 J Z
Strontium	mg/kg	20.7	21.4 J E	23.6 J E	22.3	23.1 J E	23.9	21.9 J E
Thallium	mg/kg	0.124 J Q, E	0.149	0.167	0.150 J Q, E	0.146	0.211 J Q, E	0.129
Tin	mg/kg	10.7 U B	9.94 U B	9.87 U B	10.5 U B	10.1 U B	10.3 U B	10.1 U B
Titanium	mg/kg	1030	1100	1030	880	812	985	750
Antimony	mg/kg	0.0982 J Q, E, Z	0.107 J Q, Z	0.100 J Q, Z	0.127 J Q, E, Z	0.108 J Q, Z	0.116 J Q, E, Z	0.111 J Q, Z
Arsenic	mg/kg	5.83 J Q, E	4.58	4.61	8.02 J Q, E	4.4	5.75 J Q, E	4.68
Beryllium	mg/kg	0.534 J E, Q	0.441	0.452	0.846 J E, Q	0.43	0.649 J E, Q	0.426
Barium	mg/kg	47.4 J E	65	79.4	104 J E	64.3	67.3 J E	55.1
Boron	mg/kg	6.03	9.48	9.65	7.74	10.3	6.35	10.1
Cadmium	mg/kg	0.0667 J Q, E, Z	0.166	0.163	0.182 J Q, E	0.195	0.135 J Q, E	0.148
Chromium	mg/kg	36.3 J Q, E	31.2	33.3	32.7 J Q, E	31.7	40.8 J Q, E	32.8
Cobalt	mg/kg	4.49 J E	6.28	5.61	4.92 J E	6.79	6.57 J E	6.25
Copper	mg/kg	3.83 J Q, E	6.2	5.4	3.89 J Q, E	6.34	6.95 J Q, E	5.31
Vanadium	mg/kg	64.3 J E	54.8	55.2	68.1 J Q, E	55.3	71.1 J Q, E	57.6
Zinc	mg/kg	44.0 J E	50	46.9	37.3 J Q, E	50.3	52.4 J Q, E	48.4
Zirconium	mg/kg	13.5	6.66	4.06 J Z	11.8	5.84	9.73	5.94
Calcium	mg/kg	3250	3440 J E	3510 J E	2690	3560 J E	3360	3610 J E
Phosphorus	mg/kg	536	715	740	553	715	478	582
Selenium	mg/kg	0.124 J E, Z	0.190 J Z	0.170 J Z	0.103 J E, Z	0.217 J Z	0.209 J E, Z	0.259 J Z
Chromium VI	mg/kg	0.64 J Z	1.7	0.65 J Z	0.62 J Z	0.56 J Z	0.55 J Z	1.0 U
Perchlorate (314.0)	ug/kg	32.5 U	30.4 U	30.5 U	32.7 U	30.5 U	31.8 U	30.6 U
Perchlorate (6850)	ug/kg	--	--	--	--	--	--	--
Percent Moisture	%	7.6	1.4	1.6	8.3	1.8	5.7	1.9
pH	pH unit	6.12	5.99	6.14	6.45	6.05	6.5	6.09

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

Sample Name		SL-024-SA5DS-SS-0.0-0.5	SL-025-SA5DS-SS-0.0-0.5	SL-026-SA5DS-SS-0.0-0.5	SL-026-SA5DS-SB-4.0-5.0	SL-026-SA5DS-SB-9.0-10.0	SL-027-SA5DS-SS-0.0-0.5	SL-028-SA5DS-SS-0.0-0.5
Sample Date		09/27/2011	09/27/2011	09/26/2011	10/20/2011	10/20/2011	09/26/2011	09/26/2011
SDG		DE256	DE256	DE253	DE273	DE273	DE253	DE253
Start Depth		0	0	0	4	9	0	0
End Depth		0.5	0.5	0.5	5	10	0.5	0.5
Chemical Name	Unit							
Nitrate	mg/kg	--	--	--	--	--	--	--
Fluoride	mg/kg	1.0 UJ Q	1.4 J Q	1.0 UJ Q	6.7 J Q	9.1 J Q	2.5 J Q	0.99 UJ Q
Cyanide	mg/kg	--	--	--	--	--	--	--
Aluminum	mg/kg	11800	13500	9970	20700 J E	30100 J E	15800	12000
Iron	mg/kg	19200	21500	18300	28500	37300	27200	25400
Lead	mg/kg	8.9	9.22	12.1 J A	6.65 J Q, A	9.82 J Q, A	10.1 J A	28.1 J A
Lithium	mg/kg	19.1	18.8	13.8	40	52.9	30.5	21.4
Magnesium	mg/kg	5160	5700	4310	8240	10500	7140	6320
Manganese	mg/kg	281	329	227	323	250	317	293
Mercury	mg/kg	0.0098 J Z	0.0098 J Z	0.0973 U	0.108 U	0.109 U B	0.0988 U	0.0095 J Z
Molybdenum	mg/kg	0.313	0.341	0.404 J Q	0.303	0.165	0.413 J Q	0.384 J Q
Nickel	mg/kg	9.27	9.08	20.0 J Q, A	14.4 J A	22.5 J A	20.6 J Q, A	17.3 J Q, A
Potassium	mg/kg	2320	1470	2570	4200 J Q	6250 J Q	3940	4800
Silver	mg/kg	0.0169 J Z	0.0162 J Z	0.0205 J Q, Z	0.109 U	0.0195 J Z	0.161 J Q	0.351 J Q
Sodium	mg/kg	111	98.2 J Z	199	164	209	146	195
Strontium	mg/kg	20.5 J E	21.3 J E	30.7	23.1	31.9	21.6	21.1
Thallium	mg/kg	0.112	0.102	0.186 J Q	0.269	0.395	0.367 J Q	0.244 J Q
Tin	mg/kg	10.1 U B	10.1 U B	9.85 U B	10.8 U B	11.0 U B	9.83 U B	9.76 U B
Titanium	mg/kg	1090	1210	1100	1380	1590	1260	1480
Antimony	mg/kg	0.119 J Q, Z	0.133 J Q, Z	0.102 J Q, Z	0.217 UJ Q	0.0880 J Q, Z	0.194 J Q, Z	0.145 J Q, Z
Arsenic	mg/kg	4.53	5.88	3.27 J Q	4.73 J Q	6.86 J Q	5.79 J Q	2.80 J Q
Beryllium	mg/kg	0.389	0.418	0.275	0.578 J Q	0.762 J Q	0.44	0.243
Barium	mg/kg	42.5	61.2	101 J A	70.5	103	128 J A	140 J A
Boron	mg/kg	8.87	9.52	5.5	13.4	17.5	9.43	7
Cadmium	mg/kg	0.156	0.134	0.152 J Q	0.0890 J Z	0.108 J Z	0.354 J Q	0.362 J Q
Chromium	mg/kg	31.2	32.7	24.8 J A	27.9 J Q, A	35.9 J Q, A	44.5 J A	22.5 J A
Cobalt	mg/kg	5.49	6.29	6.3	8.63 J A	8.11 J A	10.7	7.43
Copper	mg/kg	4.43	3.69	11.9 J Q	10.8 J A	20.6 J A	14.1 J Q	16.5 J Q
Vanadium	mg/kg	56.4	61.6	63.9 J A	56.7 J A	67.2 J A	95.0 J A	62.6 J A
Zinc	mg/kg	43.2	45.9	58.8 J A	67.9	98.9	104 J A	109 J A
Zirconium	mg/kg	9.18	11	4.92 U B	7.39	7.92	7.02	2.42 J Z
Calcium	mg/kg	4600 J E	4700 J E	3460	5730	6120	8000	4810
Phosphorus	mg/kg	838	721	472	588	613	655	739
Selenium	mg/kg	0.170 J Z	0.188 J Z	0.154 J Q, Z	0.206 J Z	0.344 J Z	0.282 J Q, Z	0.144 J Q, Z
Chromium VI	mg/kg	0.67 J Z	0.86 J Z	0.34 J Z	1.1 U	1.1 U	1.0 U	0.38 J Z
Perchlorate (314.0)	ug/kg	30.5 U	30.6 U	30.4 U	32.6 U	32.9 U	30.4 U	30.2 U
Perchlorate (6850)	ug/kg	--	--	--	5.4 U	--	--	--
Percent Moisture	%	1.6	2	1.4	8	8.9	1.2	0.56
pH	pH unit	6.65	6.48	6.84	8.2	7.13	7.41	7.1

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

Appendix A8
Inorganics-Validated Data
HSA-5DS

Sample Name		SL-028-SA5DS-SB-1.9-2.9	SL-029-SA5DS-SS-0.0-0.5	SL-029-SA5DS-SB-3.5-4.5	SL-030-SA5DS-SS-0.0-0.5	SL-031-SA5DS-SS-0.0-0.5	SL-031-SA5DS-SB-4.0-5.0	SL-031-SA5DS-SB-9.0-10.0
Sample Date		11/11/2011	09/26/2011	11/11/2011	09/26/2011	09/26/2011	11/14/2011	11/14/2011
SDG		DE285	DE253	DE285	DE253	DE253	DE286	DE286
Start Depth		1.9	0	3.5	0	0	4	9
End Depth		2.9	0.5	4.5	0.5	0.5	5	10
Chemical Name	Unit							
Nitrate	mg/kg	--	--	--	--	--	--	--
Fluoride	mg/kg	6.5	2.6 J Q	3.3	1.2 J Q	1.6 J Q	6.2 J Q	3.6 J Q
Cyanide	mg/kg	--	--	--	--	--	--	--
Aluminum	mg/kg	18600	29200	26800	26100	29200	31100	28900
Iron	mg/kg	28500	36900	36000	34100	39000	38200 J Q	44600 J Q
Lead	mg/kg	8.11	15.7 J A	9.21	17.8 J A	32.3 J A	8.91 J Q, A	8.86 J Q, A
Lithium	mg/kg	33.6	55.1	47.1	47.1	45.2	39.9	44.7
Magnesium	mg/kg	7990	10200	10400	9090	9660	9430	10700
Manganese	mg/kg	313 J E	345	293 J E	377	361	364	285
Mercury	mg/kg	0.107 U	0.0076 J Z	0.105 U	0.0145 J Z	0.0130 J Z	0.108 U	0.106 U
Molybdenum	mg/kg	0.105 U B	0.514 J Q	0.108 U B	0.651 J Q	0.664 J Q	0.371	0.108 U B
Nickel	mg/kg	15	29.2 J Q, A	21.4	34.2 J Q, A	28.6 J Q, A	21.9 J Q, A	21.4 J Q, A
Potassium	mg/kg	2910 J Q	5730	5010 J Q	7340	6660	4740 J Q	5150 J Q
Silver	mg/kg	0.105 U	0.0472 J Q, Z	0.0265 J Z	0.0488 J Q, Z	0.0554 J Q, Z	0.0233 J Z	0.0466 J Z
Sodium	mg/kg	163 J E	161	150 J E	146	135	194	198
Strontium	mg/kg	17.7	28.8	28.9	35.9	34.5	36	36.7
Thallium	mg/kg	0.276	0.539 J Q	0.381	0.616 J Q	0.526 J Q	0.41	0.407
Tin	mg/kg	22	10.2 U B	10.5 U B	10.1 U B	10.4 U B	10.9 U B	10.7 U B
Titanium	mg/kg	1040	1700	1340	1670	1710	1540	1410
Antimony	mg/kg	0.210 U	0.343 J Q	0.0902 J Z	0.182 J Q, Z	0.341 J Q	0.104 J Q, Z	0.217 UJ Q
Arsenic	mg/kg	4.26	8.36 J Q	4.67	9.83 J Q	8.83 J Q	5.80 J Q	5.35 J Q
Beryllium	mg/kg	0.539	0.635	0.719	0.576	0.693	0.815	0.762
Barium	mg/kg	57.5	143 J A	98.2	180 J A	151 J A	124 J E, A	114 J E, A
Boron	mg/kg	4.58 J Z	13.5	6.61	17.3	14	17.5	20
Cadmium	mg/kg	0.0832 J Z	0.252 J Q	0.143	0.283 J Q	0.268 J Q	0.159	0.174
Chromium	mg/kg	32.4	58.8 J A	31.3	68.5 J A	55.5 J A	33.0 J Q, A	31.3 J Q, A
Cobalt	mg/kg	11.2	14	8.82	16.8	14	11.2 J A	11.4 J A
Copper	mg/kg	10.4	22.4 J Q	16.3	25.6 J Q	24.8 J Q	16.7	19
Vanadium	mg/kg	57.5	118 J A	59.8	136 J A	111 J A	65.5 J A	59.4 J A
Zinc	mg/kg	62	116 J A	80.5	138 J A	138 J A	75.7	82.6
Zirconium	mg/kg	7.45	4.39 J Z	8.4	3.54 J Z	5.13 J Z	9.12	7.69
Calcium	mg/kg	4660	6510	6840	8470	6570	5480	6370
Phosphorus	mg/kg	555	503	552	677	528	310	503
Selenium	mg/kg	0.202 J Z	0.412 J Q	0.215 J Z	0.483 J Q	0.510 J Q	0.294 J Z	0.269 J Z
Chromium VI	mg/kg	1.1 U	1.4	0.28 J Z	1.0 U	0.38 J Z	0.49 J Z	0.36 J Z
Perchlorate (314.0)	ug/kg	32.4 U	31.1 U	32.7 U	30.7 U	31.1 U	33.4 U	33.5 U
Perchlorate (6850)	ug/kg	4.1 J L, Z	--	--	--	--	--	--
Percent Moisture	%	7.4	3.4	8.3	2.2	3.4	10.3	10.4
pH	pH unit	5.9	6.9	6.84	7.08	6.96	7.29	7.32

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

Sample Name		SL-032-SA5DS-SS-0.0-0.5	SL-033-SA5DS-SS-0.0-0.5	SL-033-SA5DS-SB-2.0-3.0	SL-034-SA5DS-SS-0.0-0.5	SL-034-SA5DS-SB-4.0-5.0	SL-034-SA5DS-SB-9.0-10.0	SL-036-SA5DS-SB-4.0-5.0
Sample Date		09/26/2011	09/28/2011	10/17/2011	09/28/2011	10/17/2011	10/17/2011	10/14/2011
SDG		DE253	DE257	DE270	DE257	DE270	DE270	DE269
Start Depth		0	0	2	0	4	9	4
End Depth		0.5	0.5	3	0.5	5	10	5
Chemical Name	Unit							
Nitrate	mg/kg	--	--	--	--	--	--	--
Fluoride	mg/kg	1.2 J Q	3.1	4.5 J Q	1.4	4.9 J Q	2.9 J Q	2.3
Cyanide	mg/kg	--	--	--	--	--	--	--
Aluminum	mg/kg	26500	30500	34000	31900	34200	28300	27200
Iron	mg/kg	33500	34900	33600	37400	36000	37800	33700 J E
Lead	mg/kg	15.3 J A	12.4 J Q	8.15 J Q	12.4 J Q	11.0 J Q	12.6 J Q	17.3 J Q, A
Lithium	mg/kg	40.6	31.2	35	31.6	31.2	40.4	32.7
Magnesium	mg/kg	8580	8030	8290	8840	8730	9470	8690
Manganese	mg/kg	371	344	306	370	367	304	352
Mercury	mg/kg	0.101 U	0.100 U	0.111 U	0.103 U	0.110 U	0.109 U	0.112 U B
Molybdenum	mg/kg	0.794 J Q	0.646 J Q	0.357	0.548 J Q	0.326	0.239 J Z	0.376
Nickel	mg/kg	26.2 J Q, A	28.7 J Q	19.3 J E, Q	27.8 J Q	26.2 J E, Q	25.5 J E, Q	20.8 J A
Potassium	mg/kg	6450	4150	3630	4980	4010	4670	3350 J Q
Silver	mg/kg	0.0435 J Q, Z	0.0371 J Q, Z	0.0183 J Z	0.0485 J Q, Z	0.0230 J FD, Z	0.275 U	0.112 U
Sodium	mg/kg	136	109	159	100 J Z	132	238	166
Strontium	mg/kg	51.6	65.3	58.5	40.3	47.1	42	59.3
Thallium	mg/kg	0.474 J Q	0.448 J Q	0.302	0.432 J Q	0.441	0.391	0.451
Tin	mg/kg	10.2 U B	10.4 U B	11.2 U B	10.3 U B	11.4 U B	11.0 U B	11.1 U B
Titanium	mg/kg	1520	1380	1740	1540	1820	1870	1650
Antimony	mg/kg	0.317 J Q	0.340 J Q	0.224 UJ B, Q	0.392 J Q	0.223 UJ FD, B, Q	0.550 UJ Q	0.276 J Q
Arsenic	mg/kg	8.40 J Q	8.25 J Q	5.25 J E, Q	7.40 J Q	6.85 J E, Q	7.79 J E, Q	10.4
Beryllium	mg/kg	0.621	1.13	0.808	1.16	0.879	0.87	1.04
Barium	mg/kg	146 J A	130	124	182	162	104	112 J A
Boron	mg/kg	15.9	13	3.70 J Z	15.5	4.91 J Z	3.84 J Z	5.56 U
Cadmium	mg/kg	0.282 J Q	0.304 J Q	0.137	0.304 J Q	0.162	0.136 J Z	0.0551 J Z
Chromium	mg/kg	47.7 J A	42.4 J Q	36.7	40.0 J Q	48.2	43.2	28.3 J A
Cobalt	mg/kg	12.6	15.0 J Q	15.7	13.9 J Q	15.5	25.6	13.0 J A
Copper	mg/kg	20.1 J Q	20.5 J Q	17.2	21.6 J Q	21.3	22.9	32.6 J A
Vanadium	mg/kg	97.5 J A	84.7	68.4 J E	79	99.3 J E	87.2 J E	74.7 J Q, A
Zinc	mg/kg	101 J A	97.6	70.6	102	91.9	91.1	101
Zirconium	mg/kg	2.88 J Z	3.67 J Z	5.18 J Z	4.78 J Z	5.12 J Z	4.89 J Z	8.51
Calcium	mg/kg	15900	29800	19600 J E	9210	9770 J E	8610 J E	7650
Phosphorus	mg/kg	571	437	347 J Q	511	258 J Q	646 J Q	635
Selenium	mg/kg	0.515 J Q	0.194 J Z	0.257 J Z	0.272 J Z	0.220 J FD, Z	0.165 J Z	0.110 J Z
Chromium VI	mg/kg	0.37 J Z	1.1 U	1.1 U	1.0 UJ FD	1.2 U	0.25 J Z	1.2 U
Perchlorate (314.0)	ug/kg	30.7 U	31.4 U	34.2 U	31.3 U	34.2 U	34.0 U	34.4 U
Perchlorate (6850)	ug/kg	--	--	--	--	--	--	--
Percent Moisture	%	2.2	4.5	12.4	4	12.2	11.8	12.7
pH	pH unit	7.3	7.59	8.31	7.61	8.26	8.57	8.39

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

Appendix A8
Inorganics-Validated Data
HSA-5DS

Sample Name		SL-036-SA5DS-SB-9.0-10.0	SL-037-SA5DS-SB-4.0-5.0	SL-037-SA5DS-SB-9.0-10.0	SL-038-SA5DS-SS-0.0-0.5	SL-038-SA5DS-SB-4.0-5.0	SL-038-SA5DS-SB-9.0-10.0	SL-039-SA5DS-SB-3.0-4.0
Sample Date		10/14/2011	10/14/2011	10/14/2011	09/27/2011	10/14/2011	10/14/2011	10/17/2011
SDG		DE269	DE269	DE269	DE256	DE269	DE269	DE270
Start Depth		9	4	9	0	4	9	3
End Depth		10	5	10	0.5	5	10	4
Chemical Name	Unit							
Nitrate	mg/kg	--	--	--	--	--	--	--
Fluoride	mg/kg	3.9	4.7	11.8	2.1 J Q	3.6	2.9	1.5 J Q
Cyanide	mg/kg	--	--	--	--	--	--	--
Aluminum	mg/kg	31400	36300	40000	21900	23200	23500	28100
Iron	mg/kg	32600 J E	35200 J E	40800 J E	25900	27200 J E	27100 J E	30900
Lead	mg/kg	10.6 J Q, A	11.3 J Q, A	13.9 J Q, A	8.57	8.01 J Q, A	8.06 J Q, A	10.1 J Q
Lithium	mg/kg	30.9	31.4	37.5	24.3	28.9	23.3	38.6
Magnesium	mg/kg	6960	8110	10200	6260	6980	5830	8820
Manganese	mg/kg	366	468	277	337	328	363	227
Mercury	mg/kg	0.109 U	0.112 U	0.112 U	0.0877 J Z	0.105 U	0.104 U	0.104 U
Molybdenum	mg/kg	0.517	0.524	0.872	0.41	0.443	0.53	0.235
Nickel	mg/kg	20.5 J A	23.4 J A	30.5 J A	14.6	17.9 J A	18.8 J A	24.3 J E, Q
Potassium	mg/kg	3050 J Q	3700 J Q	4230 J Q	5520	3760 J Q	2800 J Q	4320
Silver	mg/kg	0.0257 J Z	0.0479 J Z	0.0232 J Z	0.0234 J Z	0.0220 J Z	0.0413 J Z	0.0229 J Z
Sodium	mg/kg	130	166	240	85.8 J Z	135	120	145
Strontium	mg/kg	51.6	66.2	65.8	41.1 J E	60.3	38	91
Thallium	mg/kg	0.398	0.482	0.594	0.269	0.305	0.303	0.391
Tin	mg/kg	11.1 U B	11.4 U B	11.5 U B	9.88 U B	10.7 U B	10.7 U B	10.5 U B
Titanium	mg/kg	1650	1620	1570	1200	1300	1340	1480
Antimony	mg/kg	0.201 J Q, Z	0.308 J Q	0.378 J Q	0.122 J Q, Z	0.188 J Q, Z	0.221 J Q	0.208 UJ B, Q
Arsenic	mg/kg	7.22	6.69	8.96	4.65	5.74	6.82	4.97 J E, Q
Beryllium	mg/kg	0.929	1.01	1.27	0.58	0.688	0.794	0.769
Barium	mg/kg	150 J A	179 J A	199 J A	92	116 J A	117 J A	143
Boron	mg/kg	5.53 U	5.93	7.06	13.6	5.35 U	5.34 U	4.03 J Z
Cadmium	mg/kg	0.172	0.155	0.0708 J Z	0.237	0.194	0.146	0.131
Chromium	mg/kg	36.9 J A	38.9 J A	47.6 J A	29.8	33.6 J A	40.4 J A	44.7
Cobalt	mg/kg	13.4 J A	12.8 J A	17.6 J A	8.3	10.6 J A	10.0 J A	15
Copper	mg/kg	16.7 J A	17.2 J A	25.8 J A	11.6	13.1 J A	10.6 J A	19.2
Vanadium	mg/kg	77.1 J Q, A	77.7 J Q, A	96.5 J Q, A	53.6	65.0 J Q, A	72.6 J Q, A	78.6 J E
Zinc	mg/kg	77.1	84.3	109	61.1	68.8	64.9	90
Zirconium	mg/kg	5.63	4.87 J Z	4.87 J Z	4.84 J Z	4.26 J Z	6.16	4.05 J Z
Calcium	mg/kg	18600	14200	8540	14300 J E	34600	7550	25000 J E
Phosphorus	mg/kg	192	152	240	586	573	440	469 J Q
Selenium	mg/kg	0.175 J Z	0.142 J Z	0.172 J Z	0.292 J Z	0.199 J Z	0.122 J Z	0.294 J Z
Chromium VI	mg/kg	1.1 U	0.31 J Z	1.2 U	1.0 U	0.24 J Z	0.23 J Z	1.1 U
Perchlorate (314.0)	ug/kg	34.5 U	34.5 U	35.5 U	30.8 U	32.8 U	32.4 U	32.8 U
Perchlorate (6850)	ug/kg	--	--	--	--	--	--	5.5 U
Percent Moisture	%	13.1	13.1	15.4	2.7	8.4	7.3	8.6
pH	pH unit	8.39	8.29	8.3	7.55	8.42	8.41	8.59

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

	Sample Name	SL-040-SA5DS-SS-0.0-0.5	SL-040-SA5DS-SB-4.0-5.0	SL-040-SA5DS-SB-9.0-10.0
	Sample Date	09/28/2011	10/20/2011	10/20/2011
	SDG	DE257	DE273	DE273
	Start Depth	0	4	9
	End Depth	0.5	5	10
Chemical Name	Unit			
Nitrate	mg/kg	--	--	--
Fluoride	mg/kg	2.5	25.0 J Q	17.1 J Q
Cyanide	mg/kg	--	--	--
Aluminum	mg/kg	18000	31000 J E	23800 J E
Iron	mg/kg	22500	33900	31200
Lead	mg/kg	14.1 J Q	8.46 J Q, A	7.86 J Q, A
Lithium	mg/kg	17.7	31.3	30.1
Magnesium	mg/kg	4710	7700	7470
Manganese	mg/kg	369	295	339
Mercury	mg/kg	0.100 U	0.108 U	0.106 U B
Molybdenum	mg/kg	0.762 J Q	0.606	0.471
Nickel	mg/kg	17.7 J Q	19.5 J A	19.3 J A
Potassium	mg/kg	4120	3930 J Q	2760 J Q
Silver	mg/kg	0.0289 J Q, Z	0.0407 J Z	0.0203 J Z
Sodium	mg/kg	83.6 J Z	903	848
Strontium	mg/kg	25.8	34.3	28.2
Thallium	mg/kg	0.273 J Q	0.353	0.28
Tin	mg/kg	10.0 U B	10.8 U B	10.5 U B
Titanium	mg/kg	1270	1330	1240
Antimony	mg/kg	0.258 J Q	0.0827 J Q, Z	0.215 UJ Q
Arsenic	mg/kg	5.98 J Q	6.45 J Q	6.47 J Q
Beryllium	mg/kg	0.757	0.852 J Q	0.729 J Q
Barium	mg/kg	117	107	90.8
Boron	mg/kg	8.35	12.2	9.92
Cadmium	mg/kg	0.217 J Q	0.0595 J Z	0.108 U
Chromium	mg/kg	33.2 J Q	36.9 J Q, A	39.9 J Q, A
Cobalt	mg/kg	9.83 J Q	10.5 J A	10.7 J A
Copper	mg/kg	10.9 J Q	12.8 J A	10.4 J A
Vanadium	mg/kg	62.3	70.5 J A	67.5 J A
Zinc	mg/kg	61.2	69.5	62.7
Zirconium	mg/kg	3.49 J Z	8.67	8.22
Calcium	mg/kg	3090	3610	3970
Phosphorus	mg/kg	360	372	467
Selenium	mg/kg	0.188 J Z	0.112 J Z	0.164 J Z
Chromium VI	mg/kg	0.99 U	3.2	1.1 U
Perchlorate (314.0)	ug/kg	30.4 U	32.7 U	32.3 U
Perchlorate (6850)	ug/kg	2.3 J Z	--	--
Percent Moisture	%	1.3	8.3	7
pH	pH unit	6.27	8.05	7.35

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

Sample Name		SL-005-SA5DS-SB-1.0-2.0	SL-010-SA5DS-SB-2.0-3.0	SL-019-SA5DS-SB-2.0-3.0
Sample Date		11/09/2011	11/08/2011	11/08/2011
SDG		DE283	DE282	DE282
Start Depth		1	2	2
End Depth		2	3	3
Chemical Name	Unit			
Ethanol	ug/kg	530 U	560 U	540 U
Methanol	ug/kg	530 U	560 U	540 U
2-Propanol	ug/kg	530 U	560 U	540 U
Ethylene Glycol	mg/kg	11 U	11 U	11 U
Diethylene Glycol	mg/kg	11 U	11 U	11 U
Propylene glycol	mg/kg	11 U	11 U	11 U
o-Terphenyl	mg/kg	3.7 U	3.9 U	3.8 U
m-Terphenyl	mg/kg	3.7 U	3.9 U	3.8 U
p-Terphenyl	mg/kg	3.7 U	3.9 U	3.8 U
Formaldehyde	ug/kg	1600 U	1700 U	1600 U
2,6-Dinitrotoluene	ug/kg	130 U	130 U	120 U
2,4,6-Trinitrotoluene	ug/kg	130 U	130 U	120 U
RDX	ug/kg	130 U	130 U	120 U
4-Amino-2,6-Dinitrotoluene	ug/kg	130 U	130 U	120 U
HMX	ug/kg	320 U	330 U	310 U
2-Amino-4,6-Dinitrotoluene	ug/kg	130 U	130 U	120 U
Tetryl	ug/kg	130 U	130 U	120 U
Nitroglycerin	ug/kg	2500 U	2700 U	2500 U
2,6-Diamino-4-nitrotoluene	ug/kg	250 U	270 U	250 U
2,4-Diamino-6-nitrotoluene	ug/kg	250 U	270 U	250 U
PETN	ug/kg	2500 U	2700 U	2500 U
2-Nitrotoluene	ug/kg	130 U	130 U	120 U
3-Nitrotoluene	ug/kg	130 U	130 U	120 U
1,3,5-Trinitrobenzene	ug/kg	130 U	130 U	120 U
4-Nitrotoluene	ug/kg	130 U	130 U	120 U
2,4-Dinitrotoluene	ug/kg	130 U	130 U	120 U
Nitrobenzene	ug/kg	130 U	130 U	120 U
m-Dinitrobenzene	ug/kg	130 U	130 U	120 U

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

Sample Name		SL-001-SA5DS-SS-0.0-0.5	SL-002-SA5DS-SS-0.0-0.5	SL-002-SA5DS-SB-1.8-2.8	SL-004-SA5DS-SS-0.0-0.5	SL-005-SA5DS-SS-0.0-0.5	SL-005-SA5DS-SB-1.0-2.0	SL-006-SA5DS-SS-0.0-0.5
Sample Date		09/26/2011	09/26/2011	11/14/2011	09/27/2011	09/27/2011	11/09/2011	09/27/2011
SDG		DX142	DX142	DX155	DX143	DX143	DX154	DX154
Start Depth		0	0	1.8	0	0	1	0
End Depth		0.5	0.5	2.8	0.5	0.5	2	0.5
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	0.987 U	0.0574 J Z	0.0477 J Z	0.148 J Z	0.115 J Z	0.0258 J Z	0.0534 J Z
1,2,3,7,8,9-HxCDD	ng/kg	0.789 J Z	0.655 J Z	0.410 J Z	0.802 J Z	0.957 J Z	0.424 J Z	1.32 J Z
OCDD	ng/kg	135 J FD	54.8	4.74 J Z	69.4	41.3	6.06 J Z	38.5
1,2,3,4,6,7,8-HpCDD	ng/kg	13.6	6.48	5.21 U B	7.3	4.04 J Z	5.26 U B	4.09 J Z
OCDF	ng/kg	5.49 J Z	2.64 J Z	10.4 U B	3.08 J Z	1.59 J Z	10.5 U B	1.87 J Z
1,2,3,4,7,8-HxCDD	ng/kg	0.286 J Z	0.154 J Z	5.21 U B	0.224 J Z	0.193 J Z	5.26 U B	5.52 U B
1,2,3,7,8-PeCDD	ng/kg	0.246 J Z	0.152 J Z	0.0570 J Z	0.412 J Z	0.369 J Z	5.26 U B	0.185 J Z
2,3,7,8-TCDF	ng/kg	0.510 J Z	0.642 J Z	0.0565 J Z	0.339 J Z	0.133 J Z	0.0475 J Z	0.124 J FD, Z
1,2,3,4,7,8,9-HpCDF	ng/kg	0.221 J Z	4.93 U B	5.21 U B	4.86 U B	4.97 U B	5.26 U B	5.52 U B
2,3,4,7,8-PeCDF	ng/kg	1.31 J Z	1.09 J Z	5.21 U B	0.944 J Z	0.691 J Z	5.26 U B	5.52 UJ B, FD
1,2,3,7,8-PeCDF	ng/kg	1.23 J FD, Z	0.473 J Z	5.21 U B	0.371 J Z	0.429 J Z	5.26 U B	0.293 J Z
1,2,3,6,7,8-HxCDF	ng/kg	0.419 J Z	0.224 J Z	5.21 U B	0.350 J Z	0.277 J Z	5.26 U B	0.215 J Z
1,2,3,6,7,8-HxCDD	ng/kg	0.734 J Z	0.529 J Z	0.204 J Z	0.749 J Z	0.747 J Z	0.257 J Z	0.903 J Z
2,3,4,6,7,8-HxCDF	ng/kg	0.314 J Z	0.401 J Z	5.21 U B	0.373 J Z	4.97 U B	5.26 U B	5.52 U B
1,2,3,4,6,7,8-HpCDF	ng/kg	2.62 J Z	1.39 J Z	5.21 U B	1.37 J Z	0.908 J Z	5.26 U B	0.950 J Z
1,2,3,4,7,8-HxCDF	ng/kg	0.260 J FD, Z	0.480 J Z	5.21 U	0.345 J Z	0.312 J Z	5.26 U B	0.353 J Z
1,2,3,7,8,9-HxCDF	ng/kg	0.120 J Z	0.459 J Z	0.354 J Z	0.259 J Z	0.298 J Z	5.26 U B	0.501 J Z
Aroclor 1260	ug/kg	7.7	5.6	1.8 U	0.67 J Z	1.7 U	1.8 U	1.9 UJ FD
Aroclor 1254	ug/kg	8	4.3	1.5 J S, Z	0.51 J Z	1.7 U	1.8 U	1.8 J FD, Z, *#
Aroclor 1268	ug/kg	1.7 U	1.7 U	1.8 U	1.7 U	1.7 U	1.8 U	1.9 U
Aroclor 1221	ug/kg	1.7 U	1.7 U	1.8 U	1.7 U	1.7 U	1.8 U	1.9 U
Aroclor 5460	ug/kg	2.4 J FD, Z	3.3 J Z	3.5 UJ E	1.2 J Z	3.4 U	3.5 U	1.7 J Z, C
Aroclor 1232	ug/kg	1.7 U	1.7 U	1.8 U	1.7 U	1.7 U	1.8 U	1.9 U
Aroclor 5442	ug/kg	3.3 U	3.4 U	3.5 UJ E	3.4 U	3.4 U	3.5 U	3.7 U
Aroclor 1248	ug/kg	1.7 U	1.7 U	1.8 U	1.7 U	1.7 U	1.8 U	1.9 U
Aroclor 1016	ug/kg	1.7 U	1.7 U	1.8 U	1.7 U	1.7 U	1.8 U	1.9 U
Aroclor 1262	ug/kg	1.7 U	1.7 U	1.8 U	1.7 U	1.7 U	1.8 U	1.9 U
Aroclor 1242	ug/kg	1.7 U	1.7 U	1.8 U	1.7 U	1.7 U	1.8 U	1.9 U
Aroclor 5432	ug/kg	3.3 U	3.4 U	3.5 UJ E	3.4 U	3.4 U	3.5 U	3.7 U

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

Appendix A10
PCBs and Dioxins-Validated Data
HSA-5DS

Sample Name		SL-007-SA5DS-SS-0.0-0.5	SL-008-SA5DS-SS-0.0-0.5	SL-009-SA5DS-SS-0.0-0.5	SL-010-SA5DS-SS-0.0-0.5	SL-010-SA5DS-SB-2.0-3.0	SL-013-SA5DS-SS-0.0-0.5	SL-013-SA5DS-SB-4.0-5.0
Sample Date		09/28/2011	09/28/2011	09/28/2011	09/28/2011	11/08/2011	09/28/2011	10/18/2011
SDG		DX144	DX144	DX144	DX144	DX154	DX144	DX149
Start Depth		0	0	0	0	2	0	4
End Depth		0.5	0.5	0.5	0.5	3	0.5	5
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	0.993 U	0.0433 J Z	1.01 U	0.0545 J Z	0.0274 J Z	1.00 U	1.10 U
1,2,3,7,8,9-HxCDD	ng/kg	1.23 J Z	0.509 J Z	0.746 J Z	1.32 J Z	0.237 J Z	0.822 J Z	5.48 U B
OCDD	ng/kg	44.9	38.8	45.4	52.9	1.92 J Z	19.6	11.0 U B
1,2,3,4,6,7,8-HpCDD	ng/kg	3.83 J Z	3.58 J Z	4.23 J Z	4.60 J Z	5.54 U B	1.78 J Z	5.48 U B
OCDF	ng/kg	2.20 J Z	1.53 J Z	2.43 J Z	1.93 J Z	11.1 U B	0.890 J Z	11.0 U B
1,2,3,4,7,8-HxCDD	ng/kg	4.97 U	0.102 J Z	0.0814 J Z	0.102 J Z	0.0300 J Z	0.0821 J Z	5.48 U B
1,2,3,7,8-PeCDD	ng/kg	0.136 J Z	0.0916 J Z	0.142 J Z	0.186 J Z	5.54 U	0.195 J Z	5.48 U B
2,3,7,8-TCDF	ng/kg	0.121 J Z	0.137 J Z	0.196 J Z	0.226 J Z	1.11 U	0.0930 J Z	0.0307 J Z
1,2,3,4,7,8,9-HpCDF	ng/kg	4.97 U B	4.90 U B	5.05 U B	5.02 U B	5.54 U B	5.02 U B	5.48 U B
2,3,4,7,8-PeCDF	ng/kg	0.291 J Z	4.90 U B	5.05 U	5.02 U B	5.54 U B	0.290 J Z	5.48 U B
1,2,3,7,8-PeCDF	ng/kg	4.97 U B	0.130 J Z	0.183 J Z	0.333 J Z	0.0832 J Z	0.306 J Z	5.48 U B
1,2,3,6,7,8-HxCDF	ng/kg	4.97 U B	4.90 U B	5.05 U B	5.02 U B	5.54 U B	5.02 U B	5.48 U B
1,2,3,6,7,8-HxCDD	ng/kg	0.934 J Z	0.416 J Z	0.571 J Z	0.994 J Z	0.184 J Z	0.632 J Z	0.0758 J Z
2,3,4,6,7,8-HxCDF	ng/kg	0.180 J Z	0.194 J Z	0.202 J Z	0.215 J Z	5.54 U B	0.0908 J Z	5.48 U B
1,2,3,4,6,7,8-HpCDF	ng/kg	0.809 J Z	0.676 J Z	0.958 J Z	0.834 J Z	5.54 U B	5.02 U B	5.48 U B
1,2,3,4,7,8-HxCDF	ng/kg	4.97 U B	0.221 J Z	5.05 U B	0.323 J Z	5.54 U B	5.02 U B	5.48 U B
1,2,3,7,8,9-HxCDF	ng/kg	0.671 J Z	0.228 J Z	0.483 J Z	0.825 J Z	0.222 J Z	0.316 J Z	5.48 U B
Aroclor 1260	ug/kg	1.5 J Z	1.7 U	1.8 J S	1.2 J Z	1.9 U	1.7 U	1.9 U
Aroclor 1254	ug/kg	1.2 J Z	1.6 J Z	2.0 J S	2	1.9 U	1.2 J S, Z	1.9 U
Aroclor 1268	ug/kg	1.7 U	1.7 U	1.7 U	1.7 U	1.9 U	1.7 U	1.9 U
Aroclor 1221	ug/kg	1.7 U	1.7 U	1.7 U	1.7 U	1.9 U	1.7 U	1.9 U
Aroclor 5460	ug/kg	3.3	3.1 J Z	3.5 J S	3.1 J Z	3.7 U	1.9 J S, Z	3.7 U
Aroclor 1232	ug/kg	1.7 U	1.7 U	1.7 U	1.7 U	1.9 U	1.7 U	1.9 U
Aroclor 5442	ug/kg	3.3 U	3.3 U	3.4 U	3.3 U	3.7 U	3.4 U	3.7 U
Aroclor 1248	ug/kg	1.7 U	1.7 U	1.7 U	1.7 U	1.9 U	1.7 U	1.9 U
Aroclor 1016	ug/kg	1.7 U	1.7 U	1.7 U	1.7 U	1.9 U	1.7 U	1.9 U
Aroclor 1262	ug/kg	1.7 U	1.7 U	1.7 U	1.7 U	1.9 U	1.7 U	1.9 U
Aroclor 1242	ug/kg	1.7 U	1.7 U	1.7 U	1.7 U	1.9 U	1.7 U	1.9 U
Aroclor 5432	ug/kg	3.3 U	3.3 U	3.4 U	3.3 U	3.7 U	3.4 U	3.7 U

U - Compound not detected above the reporting limit
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Sample Name		SL-014-SA5DS-SS-0.0-0.5	SL-015-SA5DS-SS-0.0-0.5	SL-015-SA5DS-SB-3.5-4.5	SL-016-SA5DS-SS-0.0-0.5	SL-016-SA5DS-SB-4.0-5.0	SL-017-SA5DS-SS-0.0-0.5	SL-019-SA5DS-SS-0.0-0.5
Sample Date		09/28/2011	09/28/2011	10/18/2011	09/28/2011	10/19/2011	09/28/2011	09/27/2011
SDG		DX144	DX144	DX149	DX144	DX150	DX144	DX143
Start Depth		0	0	3.5	0	4	0	0
End Depth		0.5	0.5	4.5	0.5	5	0.5	0.5
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	0.967 U	1.01 U	0.0480 J Z	1.03 U	1.08 U	0.0586 J Z	1.00 U
1,2,3,7,8,9-HxCDD	ng/kg	0.984 J Z	0.834 J Z	0.264 J Z	0.787 J Z	5.42 U B	1.06 J Z	0.929 J Z
OCDD	ng/kg	146	34.3	2.44 J Z	40.7	10.8 U B	71.4	34.3
1,2,3,4,6,7,8-HpCDD	ng/kg	6.74	2.73 J Z	5.44 U B	3.72 J Z	5.42 U B	7.14	3.67 J Z
OCDF	ng/kg	2.71 J Z	1.16 J Z	10.9 U B	1.78 J Z	10.8 U B	2.56 J Z	1.48 J Z
1,2,3,4,7,8-HxCDD	ng/kg	0.0886 J Z	0.127 J Z	5.44 U B	0.0651 J Z	5.42 U B	0.136 J Z	0.0878 J Z
1,2,3,7,8-PeCDD	ng/kg	0.234 J Z	0.170 J Z	5.44 U B	0.159 J Z	5.42 U B	0.208 J Z	0.115 J Z
2,3,7,8-TCDF	ng/kg	0.162 J Z	0.0574 J Z	0.0938 J Z	0.132 J Z	0.0249 J Z	0.589 J Z	0.176 J Z
1,2,3,4,7,8,9-HpCDF	ng/kg	4.83 U B	5.03 U	5.44 U B	5.17 U B	5.42 U	5.06 U B	5.02 U B
2,3,4,7,8-PeCDF	ng/kg	0.431 J Z	5.03 U B	5.44 U B	5.17 U B	5.42 U B	1.11 J Z	5.02 U B
1,2,3,7,8-PeCDF	ng/kg	0.294 J Z	0.188 J Z	0.193 J Z	0.165 J Z	5.42 U B	0.295 J Z	0.231 J Z
1,2,3,6,7,8-HxCDF	ng/kg	0.215 J Z	5.03 U B	0.117 J Z	5.17 U B	5.42 U B	0.278 J Z	0.142 J Z
1,2,3,6,7,8-HxCDD	ng/kg	0.994 J Z	0.514 J Z	0.199 J Z	0.584 J Z	5.42 U B	1.02 J Z	0.633 J Z
2,3,4,6,7,8-HxCDF	ng/kg	0.205 J Z	0.126 J Z	5.44 U B	0.148 J Z	5.42 U B	0.341 J Z	5.02 U B
1,2,3,4,6,7,8-HpCDF	ng/kg	1.14 J Z	5.03 U B	5.44 U B	0.771 J Z	5.42 U B	1.42 J Z	0.730 J Z
1,2,3,4,7,8-HxCDF	ng/kg	0.283 J Z	5.03 U	5.44 U B	0.258 J Z	0.0316 J Z	0.464 J Z	0.364 J Z
1,2,3,7,8,9-HxCDF	ng/kg	0.507 J Z	0.521 J Z	5.44 U B	0.565 J Z	5.42 U B	0.500 J Z	0.504 J Z
Aroclor 1260	ug/kg	0.92 J Z	1.7 U	1.9 U	2.2 J S	1.8 U	9.3 J S	0.52 J Z
Aroclor 1254	ug/kg	0.92 J Z	3.5 J S	1.9 U	1.8 U	1.8 U	1.7 U	1.7 U
Aroclor 1268	ug/kg	1.7 U	1.7 U	1.9 U	1.8 U	1.8 U	1.7 U	1.7 U
Aroclor 1221	ug/kg	1.7 U	1.7 U	1.9 U	1.8 U	1.8 U	1.7 U	1.7 U
Aroclor 5460	ug/kg	2.4 J Z	1.5 J S, Z	3.6 U	2.9 J S, Z	3.6 U	5.9 J S	3.3 U
Aroclor 1232	ug/kg	1.7 U	1.7 U	1.9 U	1.8 U	1.8 U	1.7 U	1.7 U
Aroclor 5442	ug/kg	3.3 U	3.4 U	3.6 U	3.5 U	3.6 U	3.4 U	3.3 U
Aroclor 1248	ug/kg	1.7 U	1.7 U	1.9 U	1.8 U	1.8 U	1.7 U	1.7 U
Aroclor 1016	ug/kg	1.7 U	1.7 U	1.9 U	1.8 U	1.8 U	1.7 U	1.7 U
Aroclor 1262	ug/kg	1.7 U	1.7 U	1.9 U	1.8 U	1.8 U	1.7 U	1.7 U
Aroclor 1242	ug/kg	1.7 U	1.7 U	1.9 U	1.8 U	1.8 U	1.7 U	1.7 U
Aroclor 5432	ug/kg	3.3 U	3.4 U	3.6 U	3.5 U	3.6 U	3.4 U	3.3 U

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

Appendix A10
PCBs and Dioxins-Validated Data
HSA-5DS

Sample Name		SL-019-SA5DS-SB-2.0-3.0	SL-020-SA5DS-SS-0.0-0.5	SL-021-SA5DS-SS-0.0-0.5	SL-021-SA5DS-SB-2.0-3.0	SL-022-SA5DS-SS-0.0-0.5	SL-022-SA5DS-SB-4.0-5.0	SL-023-SA5DS-SS-0.0-0.5
Sample Date		11/08/2011	09/27/2011	09/27/2011	11/09/2011	09/27/2011	11/09/2011	09/27/2011
SDG		DX154	DX143	DX143	DX154	DX143	DX154	DX143
Start Depth		2	0	0	2	0	4	0
End Depth		3	0.5	0.5	3	0.5	5	0.5
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	1.08 U	1.00 U	0.0407 J Z	1.05 U	0.997 U	1.04 U	0.994 U
1,2,3,7,8,9-HxCDD	ng/kg	0.0841 J Z	0.958 J Z	0.785 J Z	0.144 J Z	0.947 J Z	0.154 J Z	0.524 J Z
OCDD	ng/kg	10.8 U B	72.6	26.2	2.31 J Z	83	10.4 U B	35.2
1,2,3,4,6,7,8-HpCDD	ng/kg	5.38 U B	5.45	2.37 J Z	5.24 U B	5.45	5.21 U B	3.76 J Z
OCDF	ng/kg	10.8 U B	2.43 J Z	1.11 J Z	10.5 U B	2.47 J Z	10.4 U B	1.73 J Z
1,2,3,4,7,8-HxCDD	ng/kg	0.0219 J Z	0.0998 J Z	0.0334 J Z	5.24 U	0.126 J Z	5.21 U B	0.100 J Z
1,2,3,7,8-PeCDD	ng/kg	0.0273 J Z	0.144 J Z	0.113 J Z	5.24 U	0.134 J Z	5.21 U B	0.130 J Z
2,3,7,8-TCDF	ng/kg	1.08 U B	0.218 J Z	0.143 J Z	1.05 U	0.247 J Z	0.0278 J Z	0.193 J Z
1,2,3,4,7,8,9-HpCDF	ng/kg	5.38 U B	5.02 U B	4.93 U B	5.24 U B	0.189 J Z	5.21 U B	4.97 U B
2,3,4,7,8-PeCDF	ng/kg	5.38 U B	5.02 U B	0.260 J Z	5.24 U B	4.99 U B	5.21 U B	0.228 J Z
1,2,3,7,8-PeCDF	ng/kg	5.38 U B	0.187 J Z	0.148 J Z	5.24 U B	0.169 J Z	5.21 U B	0.248 J Z
1,2,3,6,7,8-HxCDF	ng/kg	5.38 U B	0.212 J Z	4.93 U B	5.24 U B	0.208 J Z	5.21 U B	0.167 J Z
1,2,3,6,7,8-HxCDD	ng/kg	5.38 U B	0.777 J Z	0.622 J Z	5.24 U B	0.721 J Z	0.122 J Z	0.462 J Z
2,3,4,6,7,8-HxCDF	ng/kg	5.38 U B	5.02 U B	4.93 U B	5.24 U B	4.99 U B	5.21 U B	4.97 U B
1,2,3,4,6,7,8-HpCDF	ng/kg	5.38 U B	1.14 J Z	4.93 U B	5.24 U B	1.30 J Z	5.21 U B	0.770 J Z
1,2,3,4,7,8-HxCDF	ng/kg	5.38 U B	5.02 U B	4.93 U B	5.24 U B	0.323 J Z	5.21 U B	0.255 J Z
1,2,3,7,8,9-HxCDF	ng/kg	5.38 U B	0.330 J Z	0.400 J Z	5.24 U B	0.413 J Z	5.21 U B	0.295 J Z
Aroclor 1260	ug/kg	1.8 U	0.87 J Z	0.71 J Z	1.9 U	0.97 J S, Z	1.8 U	0.75 J S, Z
Aroclor 1254	ug/kg	1.8 U	1.2 J Z	0.89 J Z	1.9 U	1.2 J S, Z	1.8 U	0.64 J S, Z
Aroclor 1268	ug/kg	1.8 U	1.7 U	1.7 U	1.9 U	1.7 U	1.8 U	1.7 U
Aroclor 1221	ug/kg	1.8 U	1.7 U	1.7 U	1.9 U	1.7 U	1.8 U	1.7 U
Aroclor 5460	ug/kg	3.6 U	2.0 J Z	1.6 J Z	3.6 U	2.0 J S, Z	3.5 U	1.6 J S, Z
Aroclor 1232	ug/kg	1.8 U	1.7 U	1.7 U	1.9 U	1.7 U	1.8 U	1.7 U
Aroclor 5442	ug/kg	3.6 U	3.3 U	3.3 U	3.6 U	3.4 U	3.5 U	3.4 U
Aroclor 1248	ug/kg	1.8 U	1.7 U	1.7 U	1.9 U	1.7 U	1.8 U	1.7 U
Aroclor 1016	ug/kg	1.8 U	1.7 U	1.7 U	1.9 U	1.7 U	1.8 U	1.7 U
Aroclor 1262	ug/kg	1.8 U	1.7 U	1.7 U	1.9 U	1.7 U	1.8 U	1.7 U
Aroclor 1242	ug/kg	1.8 U	1.7 U	1.7 U	1.9 U	1.7 U	1.8 U	1.7 U
Aroclor 5432	ug/kg	3.6 U	3.3 U	3.3 U	3.6 U	3.4 U	3.5 U	3.4 U

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

Sample Name		SL-024-SA5DS-SS-0.0-0.5	SL-025-SA5DS-SS-0.0-0.5	SL-026-SA5DS-SS-0.0-0.5	SL-026-SA5DS-SB-4.0-5.0	SL-026-SA5DS-SB-9.0-10.0	SL-027-SA5DS-SS-0.0-0.5	SL-028-SA5DS-SS-0.0-0.5
Sample Date		09/27/2011	09/27/2011	09/26/2011	10/20/2011	10/20/2011	09/26/2011	09/26/2011
SDG		DX143	DX143	DX142	DX150	DX150	DX142	DX142
Start Depth		0	0	0	4	9	0	0
End Depth		0.5	0.5	0.5	5	10	0.5	0.5
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	1.01 U	0.0797 J Z	9.85 U	1.05 U	0.0537 J Z	0.973 U	0.971 U
1,2,3,7,8,9-HxCDD	ng/kg	0.347 J Z	0.355 J Z	49.2 U	5.27 U B	5.40 U B	0.249 J Z	0.320 J Z
OCDD	ng/kg	39	35.4	49.6 J Z	3.60 J Z	10.8 U B	55	57.5
1,2,3,4,6,7,8-HpCDD	ng/kg	3.77 J Z	3.66 J Z	6.83 J Z	5.27 U B	5.40 U B	9.15	7.1
OCDF	ng/kg	2.18 J Z	1.39 J Z	8.98 J Z	10.5 U B	10.8 U B	2.01 J Z	3.00 J Z
1,2,3,4,7,8-HxCDD	ng/kg	0.134 J Z	0.142 J Z	49.2 U	5.27 U B	5.40 U	4.87 U	0.301 J Z
1,2,3,7,8-PeCDD	ng/kg	0.169 J Z	0.227 J Z	49.2 U	5.27 U	5.40 U B	4.87 U	0.188 J Z
2,3,7,8-TCDF	ng/kg	0.223 J Z	0.458 J Z	1.10 J Z	0.0251 J Z	0.0563 J Z	0.108 J Z	0.788 J Z
1,2,3,4,7,8,9-HpCDF	ng/kg	5.04 U B	4.92 U B	4.10 J Z	5.27 U B	5.40 U B	0.597 J Z	0.156 J Z
2,3,4,7,8-PeCDF	ng/kg	0.338 J Z	0.773 J Z	9.93 J Z	5.27 U B	5.40 U	0.427 J Z	0.855 J Z
1,2,3,7,8-PeCDF	ng/kg	0.227 J Z	0.329 J Z	3.87 J Z	5.27 U B	5.40 U B	0.190 J Z	0.179 J Z
1,2,3,6,7,8-HxCDF	ng/kg	0.123 J Z	0.234 J Z	3.91 J Z	5.27 U B	5.40 U B	4.87 U	0.461 J Z
1,2,3,6,7,8-HxCDD	ng/kg	0.313 J Z	0.359 J Z	0.485 J Z	5.27 U B	5.40 U B	0.356 J Z	0.451 J Z
2,3,4,6,7,8-HxCDF	ng/kg	5.04 U B	4.92 U B	4.40 J Z	5.27 U B	5.40 U B	0.372 J Z	0.470 J Z
1,2,3,4,6,7,8-HpCDF	ng/kg	0.824 J Z	0.771 J Z	5.02 J Z	5.27 U B	5.40 U B	0.893 J Z	1.78 J Z
1,2,3,4,7,8-HxCDF	ng/kg	5.04 U B	0.589 J Z	11.3 J Z	0.0647 J Z	0.0689 J Z	0.256 J Z	0.594 J Z
1,2,3,7,8,9-HxCDF	ng/kg	5.04 U B	0.219 J Z	3.86 J Z	5.27 U B	5.40 U B	0.272 J Z	0.109 J Z
Aroclor 1260	ug/kg	1.7 U	3.3	170 U	1.8 U	1.9 U	1.7 U	0.98 J Z
Aroclor 1254	ug/kg	0.89 J Z	5	1500	0.65 J L, Z	1.8 J L, Z	1.7 U	1.9
Aroclor 1268	ug/kg	1.7 U	1.7 U	170 U	1.8 U	1.9 U	1.7 U	1.7 U
Aroclor 1221	ug/kg	1.7 U	1.7 U	170 U	1.8 U	1.9 U	1.7 U	1.7 U
Aroclor 5460	ug/kg	1.3 J Z	1.3 J Z	330 U	3.6 UJ E	3.6 UJ E	3.3 U	3.3 U
Aroclor 1232	ug/kg	1.7 U	1.7 U	170 U	1.8 U	1.9 U	1.7 U	1.7 U
Aroclor 5442	ug/kg	3.3 U	3.3 U	330 U	3.6 UJ E	3.6 UJ E	3.3 U	3.3 U
Aroclor 1248	ug/kg	1.7 U	1.7 U	170 U	1.8 U	1.9 U	1.7 U	1.7 U
Aroclor 1016	ug/kg	1.7 U	1.7 U	170 U	1.8 U	1.9 U	1.7 U	1.7 U
Aroclor 1262	ug/kg	1.7 U	1.7 U	170 U	1.8 U	1.9 U	1.7 U	1.7 U
Aroclor 1242	ug/kg	1.7 U	1.7 U	170 U	1.8 U	1.9 U	1.7 U	1.7 U
Aroclor 5432	ug/kg	3.3 U	3.3 U	330 U	3.6 UJ E	3.6 UJ E	3.3 U	3.3 U

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

Appendix A10
PCBs and Dioxins-Validated Data
HSA-5DS

Sample Name		SL-028-SA5DS-SB-1.9-2.9	SL-029-SA5DS-SS-0.0-0.5	SL-029-SA5DS-SB-3.5-4.5	SL-030-SA5DS-SS-0.0-0.5	SL-031-SA5DS-SS-0.0-0.5	SL-031-SA5DS-SB-4.0-5.0	SL-031-SA5DS-SB-9.0-10.0
Sample Date		11/11/2011	09/26/2011	11/11/2011	09/26/2011	09/26/2011	11/14/2011	11/14/2011
SDG		DX155	DX142	DX155	DX142	DX142	DX155	DX155
Start Depth		1.9	0	3.5	0	0	4	9
End Depth		2.9	0.5	4.5	0.5	0.5	5	10
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	1.08 U	0.998 U	1.09 U	1.01 U	0.0792 J Z	1.07 U	1.11 U
1,2,3,7,8,9-HxCDD	ng/kg	0.138 J Z	4.99 U B	5.44 U B	5.05 U B	0.479 J Z	0.174 J Z	5.57 U B
OCDD	ng/kg	5.55 J Z	12.7	10.9 U B	28.5	77.9	2.31 J Z	2.45 J Z
1,2,3,4,6,7,8-HpCDD	ng/kg	5.40 U B	1.51 J Z	5.44 U B	3.49 J Z	8.56	5.36 U B	5.57 U B
OCDF	ng/kg	10.8 U B	1.09 J Z	10.9 U B	1.79 J Z	3.07 J Z	10.7 U B	11.1 U B
1,2,3,4,7,8-HxCDD	ng/kg	5.40 U B	0.0913 J Z	5.44 U B	0.0932 J Z	0.173 J Z	5.36 U	5.57 U B
1,2,3,7,8-PeCDD	ng/kg	0.176 J Z	4.99 U	5.44 U	0.0762 J Z	0.183 J Z	0.101 J Z	5.57 U
2,3,7,8-TCDF	ng/kg	0.242 J Z	0.166 J Z	1.09 U	1.01 U B	0.674 J Z	1.07 U	1.11 U
1,2,3,4,7,8,9-HpCDF	ng/kg	5.40 U B	4.99 U	5.44 U B	5.05 U B	0.145 J Z	5.36 U B	5.57 U B
2,3,4,7,8-PeCDF	ng/kg	5.40 U B	0.655 J Z	5.44 U B	5.05 U	5.18 U B	5.36 U B	5.57 U B
1,2,3,7,8-PeCDF	ng/kg	0.262 J Z	0.629 J Z	5.44 U B	5.05 U B	0.294 J Z	5.36 U B	5.57 U B
1,2,3,6,7,8-HxCDF	ng/kg	5.40 U B	0.336 J Z	5.44 U B	0.111 J Z	0.170 J Z	5.36 U B	5.57 U B
1,2,3,6,7,8-HxCDD	ng/kg	5.40 U B	4.99 U B	5.44 U B	5.05 U B	0.504 J Z	0.250 J Z	5.57 U B
2,3,4,6,7,8-HxCDF	ng/kg	5.40 U B	0.202 J Z	5.44 U B	5.05 U B	0.176 J Z	5.36 U B	5.57 U B
1,2,3,4,6,7,8-HpCDF	ng/kg	5.40 U B	0.542 J Z	5.44 U B	0.797 J Z	1.42 J Z	5.36 U B	5.57 U B
1,2,3,4,7,8-HxCDF	ng/kg	0.145 J Z	0.605 J Z	5.44 U B	0.112 J Z	0.162 J Z	5.36 U B	5.57 U B
1,2,3,7,8,9-HxCDF	ng/kg	5.40 U B	0.122 J Z	5.44 U B	0.0578 J Z	5.18 U	5.36 U B	5.57 U B
Aroclor 1260	ug/kg	0.95 J Z	5	1.8 U	1.3 J Z	1.8 U	1.9 U	1.9 U
Aroclor 1254	ug/kg	4.9	15	9.8 J S	2.3	2.4	1.9 U	1.9 U
Aroclor 1268	ug/kg	1.8 U	1.8 U	1.8 U	1.7 U	1.8 U	1.9 U	1.9 U
Aroclor 1221	ug/kg	1.8 U	1.8 U	1.8 U	1.7 U	1.8 U	1.9 U	1.9 U
Aroclor 5460	ug/kg	3.6 UJ E	3.4 U	3.6 UJ E	3.4 U	3.4 U	3.7 UJ E	3.7 UJ E
Aroclor 1232	ug/kg	1.8 U	1.8 U	1.8 U	1.7 U	1.8 U	1.9 U	1.9 U
Aroclor 5442	ug/kg	3.6 UJ E	3.4 U	3.6 UJ E	3.4 U	3.4 U	3.7 UJ E	3.7 UJ E
Aroclor 1248	ug/kg	1.8 U	1.8 U	1.8 U	1.7 U	1.8 U	1.9 U	1.9 U
Aroclor 1016	ug/kg	1.8 U	1.8 U	1.8 U	1.7 U	1.8 U	1.9 U	1.9 U
Aroclor 1262	ug/kg	1.8 U	1.8 U	1.8 U	1.7 U	1.8 U	1.9 U	1.9 U
Aroclor 1242	ug/kg	1.8 U	1.8 U	1.8 U	1.7 U	1.8 U	1.9 U	1.9 U
Aroclor 5432	ug/kg	3.6 UJ E	3.4 U	3.6 UJ E	3.4 U	3.4 U	3.7 UJ E	3.7 UJ E

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

Sample Name		SL-032-SA5DS-SS-0.0-0.5	SL-033-SA5DS-SS-0.0-0.5	SL-033-SA5DS-SB-2.0-3.0	SL-034-SA5DS-SS-0.0-0.5	SL-034-SA5DS-SB-4.0-5.0	SL-034-SA5DS-SB-9.0-10.0	SL-036-SA5DS-SB-4.0-5.0
Sample Date		09/26/2011	09/28/2011	10/17/2011	09/28/2011	10/17/2011	10/17/2011	10/14/2011
SDG		DX143	DX144	DX151	DX146	DX151	DX151	DX149
Start Depth		0	0	2	0	4	9	4
End Depth		0.5	0.5	3	0.5	5	10	5
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	1.02 U	1.01 U	1.14 U	1.03 U	1.10 UJ FD	1.11 U	0.0632 J Z
1,2,3,7,8,9-HxCDD	ng/kg	5.09 U B	0.127 J Z	5.70 U B	0.133 J Z	5.49 UJ B, FD	5.55 U B	5.73 U B
OCDD	ng/kg	26.9	2.21 J Z	11.4 U B	9.33 J Q, Z	11.0 U B	11.1 U B	11.5 U B
1,2,3,4,6,7,8-HpCDD	ng/kg	2.95 J Z	0.444 J Z	5.70 U B	5.13 U B	5.49 U B	5.55 U B	5.73 U B
OCDF	ng/kg	1.27 J Z	10.1 U B	11.4 U B	0.613 J Z	11.0 U B	11.1 U B	11.5 U B
1,2,3,4,7,8-HxCDD	ng/kg	0.0950 J Z	0.0425 J Z	0.0241 J Z	5.13 UJ FD	5.49 UJ FD	5.55 U	5.73 U B
1,2,3,7,8-PeCDD	ng/kg	0.0740 J Z	0.0490 J Z	0.0393 J Z	5.13 UJ FD	5.49 UJ FD	0.0265 J Z	0.391 J Z
2,3,7,8-TCDF	ng/kg	0.197 J Z	1.01 U	1.14 U	1.03 UJ FD	1.10 U	1.11 U	0.0811 J Z
1,2,3,4,7,8,9-HpCDF	ng/kg	5.09 U B	5.04 U B	5.70 U B	5.13 UJ B, FD	5.49 UJ FD	5.55 U B	5.73 U B
2,3,4,7,8-PeCDF	ng/kg	5.09 U B	5.04 U B	5.70 U B	5.13 U B	5.49 UJ B, FD	5.55 U B	0.357 J Z
1,2,3,7,8-PeCDF	ng/kg	0.325 J Z	5.04 U B	5.70 U B	5.13 UJ B, FD	5.49 UJ B, FD	5.55 U B	0.479 J Z
1,2,3,6,7,8-HxCDF	ng/kg	5.09 U B	5.04 U B	5.70 U B	5.13 UJ B, FD	5.49 UJ B, FD	5.55 U B	0.281 J Z
1,2,3,6,7,8-HxCDD	ng/kg	5.09 U B	5.04 U B	0.0230 J Z	0.0828 J Z	0.0442 J FD, Z	0.0328 J Z	0.197 J Z
2,3,4,6,7,8-HxCDF	ng/kg	5.09 U B	0.0401 J Z	5.70 U B	5.13 UJ B, FD	5.49 UJ B, FD	5.55 U B	5.73 U B
1,2,3,4,6,7,8-HpCDF	ng/kg	5.09 U B	5.04 U B	5.70 U B	5.13 UJ B, FD	5.49 U B	5.55 U B	5.73 U B
1,2,3,4,7,8-HxCDF	ng/kg	0.326 J Z	5.04 U B	5.70 U B	5.13 UJ B, FD	5.49 UJ B, FD	5.55 U B	5.73 U B
1,2,3,7,8,9-HxCDF	ng/kg	5.09 U B	0.112 J Z	5.70 U B	5.13 UJ B, FD	5.49 U B	5.55 U B	5.73 U B
Aroclor 1260	ug/kg	1.7 U	1.8 U	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U
Aroclor 1254	ug/kg	7.9	2.6 J S	1.9 U	1.8 UJ FD	1.9 U	1.9 U	1.9 U
Aroclor 1268	ug/kg	1.7 U	1.8 U	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U
Aroclor 1221	ug/kg	1.7 U	1.8 U	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U
Aroclor 5460	ug/kg	3.4 U	3.4 U	3.8 U	3.4 U	3.7 U	3.7 U	3.8 U
Aroclor 1232	ug/kg	1.7 U	1.8 U	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U
Aroclor 5442	ug/kg	3.4 U	3.4 U	3.8 U	3.4 U	3.7 U	3.7 U	3.8 U
Aroclor 1248	ug/kg	1.7 U	1.8 U	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U
Aroclor 1016	ug/kg	1.7 U	1.8 U	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U
Aroclor 1262	ug/kg	1.7 U	1.8 U	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U
Aroclor 1242	ug/kg	1.7 U	1.8 U	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U
Aroclor 5432	ug/kg	3.4 U	3.4 U	3.8 U	3.4 U	3.7 U	3.7 U	3.8 U

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

Appendix A10
PCBs and Dioxins-Validated Data
HSA-5DS

Sample Name		SL-036-SA5DS-SB-9.0-10.0	SL-037-SA5DS-SB-4.0-5.0	SL-037-SA5DS-SB-9.0-10.0	SL-038-SA5DS-SS-0.0-0.5	SL-038-SA5DS-SB-4.0-5.0	SL-038-SA5DS-SB-9.0-10.0	SL-039-SA5DS-SB-3.0-4.0
Sample Date		10/14/2011	10/14/2011	10/14/2011	09/27/2011	10/14/2011	10/14/2011	10/17/2011
SDG		DX149	DX149	DX149	DX143	DX149	DX149	DX151
Start Depth		9	4	9	0	4	9	3
End Depth		10	5	10	0.5	5	10	4
Chemical Name	Unit							
2,3,7,8-TCDD	ng/kg	1.13 U	0.114 J Z	1.17 U	0.0367 J Z	1.08 U	1.04 U	1.08 U
1,2,3,7,8,9-HxCDD	ng/kg	0.690 J Z	0.488 J Z	5.83 U B	0.633 J Z	5.38 U B	5.22 U B	5.42 U B
OCDD	ng/kg	11.3 U B	11.5 U B	11.7 U B	23.9	10.8 U B	10.4 U B	10.8 U B
1,2,3,4,6,7,8-HpCDD	ng/kg	5.64 U B	5.75 U B	5.83 U B	2.06 J Z	5.38 U B	5.22 U B	5.42 U B
OCDF	ng/kg	11.3 U B	11.5 U B	11.7 U B	1.98 J Z	10.8 U B	10.4 U B	10.8 U B
1,2,3,4,7,8-HxCDD	ng/kg	5.64 U B	5.75 U B	5.83 U B	0.0632 J Z	5.38 U B	5.22 U	0.0298 J Z
1,2,3,7,8-PeCDD	ng/kg	5.64 U B	5.75 U B	5.83 U	0.161 J Z	5.38 U	5.22 U B	0.0475 J Z
2,3,7,8-TCDF	ng/kg	0.0589 J Z	0.0416 J Z	1.17 U	0.0661 J Z	1.08 U	1.04 U	1.08 U
1,2,3,4,7,8,9-HpCDF	ng/kg	5.64 U B	5.75 U B	5.83 U B	5.09 U B	5.38 U B	5.22 U B	5.42 U B
2,3,4,7,8-PeCDF	ng/kg	5.64 U B	0.285 J Z	5.83 U B	0.237 J Z	5.38 U B	5.22 U B	5.42 U B
1,2,3,7,8-PeCDF	ng/kg	0.267 J Z	0.301 J Z	5.83 U B	0.281 J Z	5.38 U B	5.22 U B	5.42 U B
1,2,3,6,7,8-HxCDF	ng/kg	0.166 J Z	5.75 U B	5.83 U B	0.132 J Z	5.38 U B	5.22 U B	5.42 U B
1,2,3,6,7,8-HxCDD	ng/kg	0.286 J Z	0.239 J Z	5.83 U	0.408 J Z	5.38 U	5.22 U	0.0385 J Z
2,3,4,6,7,8-HxCDF	ng/kg	5.64 U B	5.75 U B	5.83 U B	5.09 U B	5.38 U	5.22 U B	5.42 U B
1,2,3,4,6,7,8-HpCDF	ng/kg	5.64 U B	5.75 U B	5.83 U B	0.685 J Z	5.38 U B	5.22 U B	5.42 U B
1,2,3,4,7,8-HxCDF	ng/kg	5.64 U B	5.75 U B	5.83 U B	0.297 J Z	5.38 U	5.22 U B	5.42 U B
1,2,3,7,8,9-HxCDF	ng/kg	0.725 J Z	0.657 J Z	5.83 U B	0.414 J Z	5.38 U B	5.22 U B	5.42 U B
Aroclor 1260	ug/kg	2.0 UJ S	2.0 U	2.0 U	1.7 U	1.9 U	1.8 U	1.9 U
Aroclor 1254	ug/kg	2.0 UJ S	2.0 U	2.0 U	1.7 U	1.9 U	1.8 U	1.9 U
Aroclor 1268	ug/kg	2.0 UJ S	2.0 U	2.0 U	1.7 U	1.9 U	1.8 U	1.9 U
Aroclor 1221	ug/kg	2.0 UJ S, L	2.0 U	2.0 U	1.7 U	1.9 U	1.8 U	1.9 U
Aroclor 5460	ug/kg	3.8 UJ S	3.8 U	3.9 U	3.4 U	3.6 U	3.6 U	3.6 U
Aroclor 1232	ug/kg	2.0 UJ S, L	2.0 U	2.0 U	1.7 U	1.9 U	1.8 U	1.9 U
Aroclor 5442	ug/kg	3.8 UJ S	3.8 U	3.9 U	3.4 U	3.6 U	3.6 U	3.6 U
Aroclor 1248	ug/kg	2.0 UJ S	2.0 U	2.0 U	1.7 U	1.9 U	1.8 U	1.9 U
Aroclor 1016	ug/kg	2.0 UJ S, L	2.0 U	2.0 U	1.7 U	1.9 U	1.8 U	1.9 U
Aroclor 1262	ug/kg	2.0 UJ S	2.0 U	2.0 U	1.7 U	1.9 U	1.8 U	1.9 U
Aroclor 1242	ug/kg	2.0 UJ S	2.0 U	2.0 U	0.72 J Z	1.9 U	1.8 U	1.9 U
Aroclor 5432	ug/kg	3.8 UJ S	3.8 U	3.9 U	3.4 U	3.6 U	3.6 U	3.6 U

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

Sample Name		SL-040-SA5DS-SS-0.0-0.5	SL-040-SA5DS-SB-4.0-5.0	SL-040-SA5DS-SB-9.0-10.0
Sample Date		09/28/2011	10/20/2011	10/20/2011
SDG		DX146	DX150	DX150
Start Depth		0	4	9
End Depth		0.5	5	10
Chemical Name	Unit			
2,3,7,8-TCDD	ng/kg	1.01 U	1.08 U	1.07 U
1,2,3,7,8,9-HxCDD	ng/kg	0.648 J Z	5.40 U B	5.34 U B
OCDD	ng/kg	109	10.8 U B	10.7 U B
1,2,3,4,6,7,8-HpCDD	ng/kg	10.8	5.40 U B	5.34 U B
OCDF	ng/kg	4.60 J Z	10.8 U B	10.7 U B
1,2,3,4,7,8-HxCDD	ng/kg	0.341 J Z	5.40 U B	5.34 U
1,2,3,7,8-PeCDD	ng/kg	5.06 U B	5.40 U B	5.34 U B
2,3,7,8-TCDF	ng/kg	0.186 J Z	1.08 U	1.07 U
1,2,3,4,7,8,9-HpCDF	ng/kg	0.128 J Z	5.40 U B	5.34 U B
2,3,4,7,8-PeCDF	ng/kg	5.06 U B	5.40 U B	5.34 U B
1,2,3,7,8-PeCDF	ng/kg	0.201 J Z	5.40 U B	5.34 U
1,2,3,6,7,8-HxCDF	ng/kg	5.06 U B	5.40 U B	5.34 U B
1,2,3,6,7,8-HxCDD	ng/kg	0.696 J Z	5.40 U B	5.34 U B
2,3,4,6,7,8-HxCDF	ng/kg	0.172 J Z	5.40 U B	5.34 U B
1,2,3,4,6,7,8-HpCDF	ng/kg	1.38 J Z	5.40 U B	5.34 U B
1,2,3,4,7,8-HxCDF	ng/kg	0.275 J Z	0.0409 J Z	0.0471 J Z
1,2,3,7,8,9-HxCDF	ng/kg	0.585 J Z	5.40 U B	5.34 U B
Aroclor 1260	ug/kg	1.5 J Z	1.8 U	1.8 U
Aroclor 1254	ug/kg	0.85 J Z	1.8 U	1.8 U
Aroclor 1268	ug/kg	1.7 U	1.8 U	1.8 U
Aroclor 1221	ug/kg	1.7 U	1.8 U	1.8 U
Aroclor 5460	ug/kg	2.9 J Z	3.6 UJ E	3.5 UJ E
Aroclor 1232	ug/kg	1.7 U	1.8 U	1.8 U
Aroclor 5442	ug/kg	3.3 U	3.6 UJ E	3.5 UJ E
Aroclor 1248	ug/kg	1.7 U	1.8 U	1.8 U
Aroclor 1016	ug/kg	1.7 U	1.8 U	1.8 U
Aroclor 1262	ug/kg	1.7 U	1.8 U	1.8 U
Aroclor 1242	ug/kg	1.7 U	1.8 U	1.8 U
Aroclor 5432	ug/kg	3.3 U	3.6 UJ E	3.5 UJ E

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

Appendix A11
Pesticides-Validated Data
HSA-5DS

Sample Name		SL-001-SA5DS-SS-0.0-0.5	SL-002-SA5DS-SS-0.0-0.5	SL-004-SA5DS-SS-0.0-0.5	SL-005-SA5DS-SS-0.0-0.5	SL-006-SA5DS-SS-0.0-0.5	SL-007-SA5DS-SS-0.0-0.5	SL-008-SA5DS-SS-0.0-0.5	SL-009-SA5DS-SS-0.0-0.5
Sample Date		09/26/2011	09/26/2011	09/27/2011	09/27/2011	09/27/2011	09/28/2011	09/28/2011	09/28/2011
SDG		DE253	DE253	DE256	DE256	DE256	DE257	DE257	DE257
Start Depth		0	0	0	0	0	0	0	0
End Depth		0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Chemical Name	Unit								
Dichlorprop	ug/kg	1.7 R Q	1.7 U	1.7 U	1.7 U	--	1.7 U	1.7 U	1.7 U
Dicamba	ug/kg	1.2 R Q	1.2 U	1.2 U	1.2 U	--	1.2 U	1.2 U	1.2 U
2,2-Dichlor-Propionic Acid	ug/kg	9.1 R Q	9.1 U	9.2 U	9.1 U	--	9.1 U	9.1 U	9.1 U
Dinitrobutyl Phenol	ug/kg	2.4 R Q, L	2.4 R L	2.4 U	2.4 U	--	2.4 U	2.4 U	2.4 U
MCPP	ug/kg	250 R Q	250 U	250 U	250 U	--	250 U	250 U	250 U
2,4,5-TP	ug/kg	0.17 R Q	0.17 U	0.19	0.75	--	0.25 U	0.21 U	0.3
2,4,5-T	ug/kg	0.50 U	0.17 U	0.32 U	0.17 U	--	0.59 U	0.17 U	0.17 U
MCPA	ug/kg	250 R Q	250 U	250 U	250 U	--	250 U	250 U	250 U
2,4-D	ug/kg	3.6 U	3.7 U	3.7 U	3.7 U	--	3.6 U	3.7 U	3.6 U
2,4 DB	ug/kg	2.0 R Q	1.7	6.4	3.0 U	--	2.2 U	2.4 U	1.7 U
Toxaphene	ug/kg	13 U	15	10	6.7 U	7.2 U	6.7 U	6.7 U	6.7 U
Heptachlor Epoxide	ug/kg	0.17 U	0.18 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
Endosulfan Sulfate	ug/kg	0.34 U	0.35 U	0.35 U	0.35 U	0.35 U	0.34 U	0.34 U	0.34 U
Mirex	ug/kg	0.34 U	0.35 U	0.35 U	0.35 U	0.35 U	0.34 U	0.34 U	0.34 U
Aldrin	ug/kg	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
Alpha-BHC	ug/kg	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
Beta-BHC	ug/kg	0.17 U	0.14 J Z	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
Delta-BHC	ug/kg	0.17 UJ FD	0.052 J Z	0.17 U	0.17 U	0.17 U	0.17 U	0.038 J Z	0.071 J Z
Endosulfan II	ug/kg	0.34 U	0.35 U	0.35 U	0.35 U	0.35 U	0.34 U	0.34 U	0.34 U
4,4'-DDT	ug/kg	1.2	2.4	0.86	0.35 U	0.63 J S	0.64 J S	0.56	0.56
Endrin Ketone	ug/kg	0.34 U	0.35 U	0.35 U	0.35 U	0.35 U	0.34 U	0.34 U	0.34 U
Chlordane	ug/kg	2.0 J FD, Z	8	7.4	3.5 U	3.8 J S	1.9 J S, Z	1.9 J Z	2.0 J Z
Gamma-BHC (Lindane)	ug/kg	0.17 U	0.040 J Z	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
Dieldrin	ug/kg	0.34 U	0.48 U	0.35 U	0.35 U	0.35 U	0.34 U	0.34 U	0.34 U
Endrin	ug/kg	0.34 U	0.35 U	0.35 U	0.35 U	0.35 U	0.34 U	0.34 U	0.34 U
Methoxychlor	ug/kg	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
4,4'-DDD	ug/kg	0.34 R Q	0.35 U	0.35 U	0.35 U	0.35 U	0.34 U	0.34 U	0.34 U
4,4'-DDE	ug/kg	0.52	2.8	0.35 U	0.35 U	1.0 J S	0.78 J S	0.53	0.31 J Z
Endrin Aldehyde	ug/kg	0.43 J Q	0.49	0.50 U	0.35 U	0.35 U	0.34 U	0.34 U	0.089 J Z
Heptachlor	ug/kg	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
Endosulfan I	ug/kg	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U

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

Sample Name		SL-010-SA5DS-SS-0.0-0.5	SL-013-SA5DS-SS-0.0-0.5	SL-014-SA5DS-SS-0.0-0.5	SL-015-SA5DS-SS-0.0-0.5	SL-016-SA5DS-SS-0.0-0.5	SL-017-SA5DS-SS-0.0-0.5	SL-019-SA5DS-SS-0.0-0.5	SL-020-SA5DS-SS-0.0-0.5
Sample Date		09/28/2011	09/28/2011	09/28/2011	09/28/2011	09/28/2011	09/28/2011	09/27/2011	09/27/2011
SDG		DE257	DE257	DE257	DE257	DE257	DE257	DE256	DE256
Start Depth		0	0	0	0	0	0	0	0
End Depth		0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Chemical Name	Unit								
Dichlorprop	ug/kg	1.7 U	1.7 U	1.0 J Z	1.7 U	1.8 U	1.7 U	1.7 U	1.7 U
Dicamba	ug/kg	1.2 U	1.2 U	1.2 U	1.2 U	1.3 U	1.2 U	1.2 U	1.2 U
2,2-Dichlor-Propionic Acid	ug/kg	9.1 U	9.1 U	9.1 U	9.2 U	9.4 U	9.1 U	9.2 U	9.1 U
Dinitrobutyl Phenol	ug/kg	2.4 U	2.4 U	2.4 U	2.5 U	2.5 U	2.4 U	2.4 U	2.4 U
MCPP	ug/kg	250 U	250 U	250 U	260 U	260 U	250 U	250 U	250 U
2,4,5-TP	ug/kg	0.19	0.27	0.29	0.17 U	0.18 U	0.17 U	0.26	0.45
2,4,5-T	ug/kg	0.32 U	0.85 U	0.29 U	0.48 U	0.18 U	0.17 U	0.17 U	0.20 U
MCPA	ug/kg	250 U	250 U	250 U	260 U	260 U	250 U	250 U	250 U
2,4-D	ug/kg	3.6 U	3.7 U	3.6 U	3.7 U	3.8 U	3.6 U	3.7 U	3.7 U
2,4 DB	ug/kg	56 U	36 U	18 U	14 U	8.9 U	8.6 U	1.7 U	1.7 U
Toxaphene	ug/kg	6.7 U	6.7 U	6.7 U	6.8 U	6.9 U	18 UJ S	6.7 U	6.7 U
Heptachlor Epoxide	ug/kg	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 UJ S	0.17 U	0.17 U
Endosulfan Sulfate	ug/kg	0.34 U	0.35 U	0.34 U	0.35 U	0.36 U	0.35 UJ S	0.34 U	0.34 U
Mirex	ug/kg	0.34 U	0.35 U	0.34 U	0.35 U	0.36 U	0.35 UJ S	0.34 U	0.34 U
Aldrin	ug/kg	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 UJ S	0.17 U	0.17 U
Alpha-BHC	ug/kg	0.17 U	0.17 U	0.17 U	0.17 U	0.076 J Z	0.17 UJ S	0.17 U	0.17 U
Beta-BHC	ug/kg	0.078 J Z	0.17 U	0.17 U	0.17 U	0.17 U	0.17 UJ S	0.17 U	0.17 U
Delta-BHC	ug/kg	0.061 J Z	0.17 U	0.17 U	0.17 U	0.17 U	0.17 UJ S	0.17 U	0.17 U
Endosulfan II	ug/kg	0.34 U	0.35 U	0.34 U	0.35 U	0.36 U	0.35 UJ S	0.34 U	0.34 U
4,4'-DDT	ug/kg	0.63	0.35 U	0.42	0.31 J Z	0.59	2.9 J S	0.34 U	0.99
Endrin Ketone	ug/kg	0.34 U	0.35 U	0.34 U	0.35 U	0.36 U	0.35 UJ S	0.34 U	0.34 U
Chlordane	ug/kg	3.0 J Z	1.7 J Z	1.7 J Z	1.8 J Z	2.5 J Z	4.4 J S	3.4 U	2.9 J Z
Gamma-BHC (Lindane)	ug/kg	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 UJ S	0.17 U	0.17 U
Dieldrin	ug/kg	0.34 U	0.35 U	0.34 U	0.35 U	0.36 U	0.35 UJ S	0.34 U	0.34 U
Endrin	ug/kg	0.34 U	0.35 U	0.34 U	0.35 U	0.36 U	0.35 UJ S	0.34 U	0.34 U
Methoxychlor	ug/kg	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 UJ S	1.7 U	1.7 U
4,4'-DDD	ug/kg	0.34 U	0.35 U	0.34 U	0.35 U	0.36 U	0.35 UJ S	0.34 U	0.34 U
4,4'-DDE	ug/kg	0.42	0.35 U	0.35	0.24 J Z	0.41 U	2.2 J S	0.23 J Z	1
Endrin Aldehyde	ug/kg	0.34 U	0.35 U	0.34 U	0.35 U	0.36 U	0.99 J S	0.086 J Z	0.34 U
Heptachlor	ug/kg	0.17 U	0.17 U	0.17 U	0.17 U	0.077 J Z	0.17 UJ S	0.17 U	0.17 U
Endosulfan I	ug/kg	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 UJ S	0.17 U	0.17 U

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

Appendix A11
Pesticides-Validated Data
HSA-5DS

Sample Name		SL-021-SA5DS-SS-0.0-0.5	SL-022-SA5DS-SS-0.0-0.5	SL-023-SA5DS-SS-0.0-0.5	SL-024-SA5DS-SS-0.0-0.5	SL-025-SA5DS-SS-0.0-0.5	SL-026-SA5DS-SS-0.0-0.5	SL-027-SA5DS-SS-0.0-0.5	SL-028-SA5DS-SS-0.0-0.5
Sample Date		09/27/2011	09/27/2011	09/27/2011	09/27/2011	09/27/2011	09/26/2011	09/26/2011	09/26/2011
SDG		DE256	DE256	DE256	DE256	DE256	DE253	DE253	DE253
Start Depth		0	0	0	0	0	0	0	0
End Depth		0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Chemical Name	Unit								
Dichlorprop	ug/kg	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
Dicamba	ug/kg	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
2,2-Dichlor-Propionic Acid	ug/kg	9.1 U	9.2 U	9.2 U	9.1 U	9.2 U	9.1 U	9.1 U	9.0 U
Dinitrobutyl Phenol	ug/kg	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	0.86 J L, Z	2.4 R L	2.4 R L
MCPP	ug/kg	250 U	250 U	250 U	250 U	260 U	250 U	250 U	250 U
2,4,5-TP	ug/kg	0.13 J Z	0.5	0.17 U	0.41	0.78	0.17 U	0.17 U	0.17 U
2,4,5-T	ug/kg	0.17 U	0.20 U	0.36 U	1.9	0.17 U	0.42	0.17 U	0.26
MCPA	ug/kg	250 U	250 U	250 U	250 U	260 U	250 U	250 U	120 J Z
2,4-D	ug/kg	3.7 U	4.2	3.7 U	3.7 U	3.7 U	3.6 U	3.6 U	3.6 U
2,4 DB	ug/kg	29 U	8.8	3.2 U	1.7 U	1.8 U	5.9	4.7	6.3 U
Toxaphene	ug/kg	2.6 J Z	6.7 U	6.7 UJ S	6.7 U	6.7 U	1400 U	50 U	60 U
Heptachlor Epoxide	ug/kg	0.17 U	0.17 U	0.17 UJ S	0.17 U	0.17 U	83 U	0.84 U	0.83 U
Endosulfan Sulfate	ug/kg	0.34 U	0.34 U	0.35 UJ S	0.34 U	0.35 U	34 U	1.7 U	1.7 U
Mirex	ug/kg	0.34 U	0.34 U	0.35 UJ S	0.34 U	0.35 U	34 U	2.8 U	1.8 U
Aldrin	ug/kg	0.17 U	0.17 U	0.17 UJ S	0.17 U	0.17 U	17 U	0.84 U	0.83 U
Alpha-BHC	ug/kg	0.17 U	0.17 U	0.17 UJ S	0.17 U	0.17 U	17 U	0.84 U	0.83 U
Beta-BHC	ug/kg	0.17 U	0.17 U	0.17 UJ S	0.17 U	0.079 J Z	17 U	0.84 U	0.83 U
Delta-BHC	ug/kg	0.17 U	0.046 J Z	0.17 UJ S	0.17 U	0.17 U	17 U	0.84 U	0.83 U
Endosulfan II	ug/kg	0.34 U	0.34 U	0.35 UJ S	0.34 U	0.35 U	46 U	1.7 U	1.8 U
4,4'-DDT	ug/kg	0.34 U	0.77	0.38 J S	0.34 U	0.67 U	170 U	1.3 J Z	7
Endrin Ketone	ug/kg	0.34 U	0.097 J Z	0.35 UJ S	0.34 U	0.35 U	34 U	1.7 U	1.7 U
Chlordane	ug/kg	1.6 J Z	5.8	1.8 J S, Z	3.4 U	2.5 J Z	510 U	17 U	10 J Z
Gamma-BHC (Lindane)	ug/kg	0.17 U	0.17 U	0.17 UJ S	0.17 U	0.17 U	17 U	0.84 U	0.83 U
Dieldrin	ug/kg	0.34 U	0.34 U	0.35 UJ S	0.34 U	0.35 U	50 U	1.7 U	2.1 U
Endrin	ug/kg	0.34 U	0.34 U	0.35 UJ S	0.34 U	0.35 U	59 U	1.7 U	1.7 U
Methoxychlor	ug/kg	1.7 U	1.7 U	1.7 UJ S	1.7 U	1.7 U	170 U	8.4 U	8.3 U
4,4'-DDD	ug/kg	0.34 U	0.34 U	0.35 UJ S	0.34 U	0.35 U	34 U	1.7 U	1.7 U
4,4'-DDE	ug/kg	0.34 U	0.68	0.25 J S, Z	0.34 U	0.35 U	270 U	1.1 J Z	1.7 U
Endrin Aldehyde	ug/kg	0.34 U	0.34 U	0.35 UJ S	0.34 U	0.35 U	34 U	1.7 U	1.7 U
Heptachlor	ug/kg	0.17 U	0.17 U	0.17 UJ S	0.17 U	0.17 U	17 U	0.84 U	0.83 U
Endosulfan I	ug/kg	0.21 U	0.17 U	0.17 UJ S	0.17 U	0.17 U	17 U	0.84 U	0.83 U

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

Sample Name		SL-029-SA5DS-SS-0.0-0.5	SL-030-SA5DS-SS-0.0-0.5	SL-031-SA5DS-SS-0.0-0.5	SL-032-SA5DS-SS-0.0-0.5	SL-033-SA5DS-SS-0.0-0.5	SL-034-SA5DS-SS-0.0-0.5	SL-038-SA5DS-SS-0.0-0.5	SL-040-SA5DS-SS-0.0-0.5
Sample Date		09/26/2011	09/26/2011	09/26/2011	09/26/2011	09/28/2011	09/28/2011	09/27/2011	09/28/2011
SDG		DE253	DE253	DE253	DE253	DE257	DE257	DE256	DE257
Start Depth		0	0	0	0	0	0	0	0
End Depth		0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Chemical Name	Unit								
Dichlorprop	ug/kg	1.8 U	1.7 U	1.8 U	1.7 U	1.8 U	1.8 U	1.6 J Z	1.7 U
Dicamba	ug/kg	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	0.61 J Z	1.2 U
2,2-Dichlor-Propionic Acid	ug/kg	9.3 U	9.2 U	9.3 U	9.2 U	9.4 U	9.3 U	9.2 U	9.1 U
Dinitrobutyl Phenol	ug/kg	2.5 R L	2.5 R L	2.5 R L	2.5 R L	2.5 U	2.5 U	2.5 R L	2.4 U
MCPP	ug/kg	260 U	260 U	260 U	260 U	260 U	260 U	260 U	250 U
2,4,5-TP	ug/kg	0.18 U	0.17 U	0.18 U	0.17 U	0.18 U	0.44 J FD, Q	0.090 J Z	0.62
2,4,5-T	ug/kg	0.18 U	0.17 U	0.18 U	0.15 J Z	0.18 U	0.18 U	0.17 U	0.17 U
MCPA	ug/kg	260 U	260 U	260 U	260 U	260 U	260 U	870	250 U
2,4-D	ug/kg	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U	3.6 U
2,4 DB	ug/kg	1.7 J Z	1.7 U	3.2	1.7	1.8 U	3.5 U	100 U	2.6 U
Toxaphene	ug/kg	17 U	42 U	10	10 U	6.9 U	6.9 U	6.7 U	6.7 U
Heptachlor Epoxide	ug/kg	0.53 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
Endosulfan Sulfate	ug/kg	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.34 U
Mirex	ug/kg	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.34 U
Aldrin	ug/kg	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
Alpha-BHC	ug/kg	0.17 U	0.090 J Z	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
Beta-BHC	ug/kg	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 UJ FD	0.17 U	0.081 J Z
Delta-BHC	ug/kg	0.35	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
Endosulfan II	ug/kg	0.36 U	0.4	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.34 U
4,4'-DDT	ug/kg	3.5 U	0.60 U	2.9	0.94 U	0.35 U	0.22 J FD, Z	0.35 U	0.34 U
Endrin Ketone	ug/kg	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.34 U
Chlordane	ug/kg	3.3 J Z	3.4 J Z	6.2	2.6 J Z	3.5 U	0.90 J FD, Z	1.1 J Z	3.4 U
Gamma-BHC (Lindane)	ug/kg	0.17 U	0.18	0.17 U	0.057 J Z	0.17 U	0.038 J FD, Z	0.17 U	0.053 J Z
Dieldrin	ug/kg	1.2 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.34 U
Endrin	ug/kg	0.45 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.34 U
Methoxychlor	ug/kg	1.7 U	1.7 U	1.7 U	0.81 J Z	1.7 U	1.7 U	1.7 U	1.7 U
4,4'-DDD	ug/kg	0.35 U	0.35 U	0.42 U	0.35 U	0.35 U	0.35 U	0.35 U	0.34 U
4,4'-DDE	ug/kg	2.1 U	0.86	2.2	1.2	0.35 U	0.10 J FD, Z	0.35 U	0.34 U
Endrin Aldehyde	ug/kg	0.53 U	1.5 U	0.73	0.46	0.35 U	0.35 UJ FD	0.35 U	0.34 U
Heptachlor	ug/kg	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
Endosulfan I	ug/kg	0.17 U	0.089 J Z	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U

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

Sample Name		SL-001-SA5DS-SS-0.0-0.5	SL-002-SA5DS-SS-0.0-0.5	SL-002-SA5DS-SB-1.8-2.8	SL-004-SA5DS-SS-0.0-0.5	SL-005-SA5DS-SS-0.0-0.5	SL-005-SA5DS-SB-1.0-2.0	SL-006-SA5DS-SS-0.0-0.5	SL-007-SA5DS-SS-0.0-0.5	SL-008-SA5DS-SS-0.0-0.5	SL-009-SA5DS-SS-0.0-0.5	SL-010-SA5DS-SS-0.0-0.5	SL-010-SA5DS-SB-2.0-3.0
Sample Date		09/26/2011	09/26/2011	11/14/2011	09/27/2011	09/27/2011	11/09/2011	09/27/2011	09/28/2011	09/28/2011	09/28/2011	09/28/2011	11/08/2011
SDG		DE253	DE253	DE286	DE256	DE256	DE283	DE283	DE257	DE257	DE257	DE257	DE282
Start Depth		0	0	1.8	0	0	1	0	0	0	0	0	2
End Depth		0.5	0.5	2.8	0.5	0.5	2	0.5	0.5	0.5	0.5	0.5	3
Chemical Name	Unit												
N-Nitrosodimethylamine (1625C)	ug/kg	--	--	--	--	--	35.2 U	--	--	--	--	--	36.8 U
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.7 U	1.7 U	1.8 U	1.7 U	1.7 U	1.7 U	1.8 U	1.7 U	1.7 U	1.7 U	1.7 U	1.9 U
2,4-Dinitrotoluene	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	180 U	170 U	170 U	170 U	170 U	190 U
Nitrobenzene	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	180 U	170 U	170 U	170 U	170 U	190 U
1,4-Dichlorobenzene	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	180 U	170 U	170 U	170 U	170 U	190 U
1,2,4-Trichlorobenzene	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	180 U	170 U	170 U	170 U	170 U	190 U
1,3-Dichlorobenzene	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	180 U	170 U	170 U	170 U	170 U	190 U
Hexachlorobutadiene	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	180 U	170 U	170 U	170 U	170 U	190 U
1,2-Dichlorobenzene	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	180 U	170 U	170 U	170 U	170 U	190 U
4-Nitroaniline	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	180 U	170 U	170 U	170 U	170 U	190 U
4-Nitrophenol	ug/kg	500 U	510 U	530 U	500 U	500 U	520 U	550 U	500 U	510 U	510 U	510 U	560 U
4-Bromophenyl Phenyl Ether	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	180 U	170 U	170 U	170 U	170 U	190 U
2,4-Dimethylphenol	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	180 U	170 U	170 U	170 U	170 U	190 U
4-Methylphenol	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	180 U	170 U	170 U	170 U	170 U	190 U
4-Chloroaniline	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	180 U	170 U	170 U	170 U	170 U	190 U
3,5-Dimethylphenol	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	180 U	170 U	170 U	170 U	170 U	190 U
Phenol	ug/kg	170 UJ FD	170 U	180 U	170 U	170 U	170 U	180 U	170 U	170 U	170 U	170 U	190 U
Bis(2-Chloroethyl) ether	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	180 U	170 U	170 U	170 U	170 U	190 U
Bis(2-Chloroethoxy) methane	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	180 U	170 U	170 U	170 U	170 U	190 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	--	--	--	--	19 J Z	--	--	--	--	--	--	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	13 J Q, Z	21	11 J Z	12 J Z	--	19	20 UJ FD	10 J Z	14 J Z	9.5 J Z	18 U	10 J Z
Di-N-Octyl Phthalate	ug/kg	6.9 J FD, Z	11 J Z	19 U	18 U	18 U	19 U	20 U	18 U	18 U	18 U	18 U	20 U
Hexachlorobenzene	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	180 U	170 U	170 U	170 U	170 U	190 U
Anthracene	ug/kg	1.7 U	1.7 U	1.8 U	1.7 U	1.7 U	1.7 U	1.8 UJ FD	1.7 U	1.7 U	1.7 U	1.7 U	1.9 U
2,4-Dichlorophenol	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	180 U	170 U	170 U	170 U	170 U	190 U
1,2-Diphenylhydrazine	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	180 U	170 U	170 U	170 U	170 U	190 U
Pyrene (8270C)	ug/kg	24 J Z	--	--	--	--	--	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	--	2.5	1.8 U	2.3	1.7	0.73 J Z	1.8 UJ FD	1.0 J Z	1.3 J Z	1.5 J Z	1.4 J Z	1.9 U
Dimethylphthalate	ug/kg	18 U	18 U	19 U	18 U	18 U	19 U	20 U	18 U	18 U	18 U	18 U	20 U
Dibenzofuran	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	180 U	170 U	170 U	170 U	170 U	190 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	1.7 U	1.2 J Z	1.8 U	1.1 J Z	1.7 U	1.7 U	1.8 UJ FD	1.7 U	1.7 U	1.7 U	1.7 U	1.9 U
Indeno(1,2,3-Cd)Pyrene	ug/kg	1.7 U	0.88 J Z	1.8 U	1.1 J Z	1.7 U	1.7 U	1.8 U	1.7 U	1.7 U	1.7 U	1.7 U	1.9 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	3.2 J FD	7.1	0.72 J Z	7.5	3.3	0.86 J Z	1.8 UJ FD	4.9	1.5 J Z	1.4 J Z	1.5 J Z	1.9 U
Fluoranthene (8270C)	ug/kg	36 J Z	--	--	--	--	--	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	--	2.9	1.8 U	2.9	1.9	0.89 J Z	1.8 UJ FD	1.0 J Z	1.6 J Z	1.7	1.8	1.9 U
Benzo(k)fluoranthene	ug/kg	1.7 U	1.7 U	1.8 U	1.7 U	1.7 U	1.7 U	1.8 UJ FD	1.7 U	3.1	2.7	3.7	1.9 U
Acenaphthylene	ug/kg	1.7 U	1.7 U	1.8 U	1.7 U	1.7 U	1.7 U	1.8 U	1.7 U	1.7 U	1.7 U	1.7 U	1.9 U
Chrysene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	0.49 J Z	2.6	0.70 J Z	2.1	1.4 J Z	0.67 J Z	0.41 J FD, Z	0.84 J Z	1.2 J Z	1.2 J Z	1.3 J Z	1.9 U
bis(2-Chloroisopropyl) ether	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	180 U	170 U	170 U	170 U	170 U	190 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	1.7 U	1.9	1.8 U	1.6 J Z	1.0 J Z	1.7 U	1.8 UJ FD	1.7 U	0.87 J Z	0.84 J Z	0.89 J Z	1.9 U
2,4-Dinitrophenol	ug/kg	1000 U	1000 U	1100 U	1000 U	1000 U	1000 U	1100 U	1000 U	1000 U	1000 U	1000 U	1100 U
4,6-Dinitro-2-Methylphenol	ug/kg	500 UJ L	510 UJ L	530 U	500 U	500 U	520 U	550 U	500 U	510 U	510 U	510 U	560 U
Dibenzo(a,h)anthracene	ug/kg	1.7 U	1.7 U	1.8 U	1.7 U	1.7 U	1.7 U	1.8 U	1.7 U	1.7 U	1.7 U	1.7 U	1.9 U
Benzo(a)anthracene	ug/kg	1.7 U	0.96 J Z	1.8 U	0.81 J Z	0.76 J Z	1.7 U	1.8 UJ FD	1.7 U	1.7 U	1.7 U	1.7 U	1.9 U
4-Chloro-3-Methylphenol	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	180 U	170 U	170 U	170 U	170 U	190 U
N-Nitroso-Di-N-Propylamine	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	180 U	170 U	170 U	170 U	170 U	190 U
Aniline	ug/kg	500 U	510 U	530 U	500 U	500 U	520 U	550 U	500 U	510 U	510 U	510 U	560 U
Benzoic Acid	ug/kg	500 U	510 U	530 U	500 U	500 U	520 U	550 U	500 U	510 U	510 U	510 U	560 U
Hexachloroethane	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	180 U	170 U	170 U	170 U	170 U	190 U
4-Chlorophenyl Phenylether	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	180 U	170 U	170 U	170 U	170 U	190 U
Hexachlorocyclopentadiene	ug/kg	500 U	510 U	530 U	500 U	500 U	520 U	550 U	500 U	510 U	510 U	510 U	560 U
Isophorone	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	180 U	170 U	170 U	170 U	170 U	190 U
Acenaphthene	ug/kg	1.7 U	1.7 U	1.8 U	1.7 U	1.7 U	1.7 U	1.8 U	1.7 U	1.7 U	1.7 U	1.7 U	1.9 U
Diethylphthalate	ug/kg	18 U	18 U	19 U	18 U	18 U	19 U	20 U	18 U	18 U	18 U	18 U	20 U
Di-n-Butylphthalate	ug/kg	18 U	18 U	19 U	18 U	18 U	19 U	20 U	18 U	18 U	18 U	18 U	20 U
Phenanthrene	ug/kg	35 J Z	--	--	--	--	--	--	--	--	--	--	--
Phenanthrene	ug/kg	--	1.9	1.8 U	2	1.1 J Z	1.7 U	1.8 UJ FD	1.7 U	0.77 J Z	1.1 J Z	0.90 J Z	1.9 U
Butylbenzylphthalate	ug/kg	18 U	7.1 J Z	19 U	18 U	18 U	11 J Z	20 U	18 U	11 J Z	18 U	18 U	20 U
N-Nitrosodiphenylamine	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	180 U	170 U	170 U	170 U	170 U	190 U
Fluorene	ug/kg	1.7 U	1.7	1.8 U	1.7 U	1.7 U	1.7 U	1.8 U	1.7 U	1.7 U	1.7 U	1.7 U	1.9 U
Carbazole	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	180 U	170 U	170 U	170 U	170 U	190 U
Pentachlorophenol	ug/kg	500 U	510 U	530 U	500 U	500 U	520 U	550 U	500 U	510 U	510 U	510 U	560 U
2,4,6-Trichlorophenol	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	180 U	170 U	170 U	170 U	170 U	190 U
2-Nitroaniline	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	180 U	170 U	170 U	170 U	170 U	190 U
2-Nitrophenol	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	180 U	170 U	170 U	170 U	170 U	190 U
1-Methylnaphthalene	ug/kg	1.7 U	1.7 U	1.8 U	0.78 J Z	1.7 U	1.7 U	1.8 U	1.7 U	1.7 U	1.7 U	1.7 U	1.9 U
Naphthalene	ug/kg	1.7 U	1.3 J Z	1.8 U	3.5	0.71 J Z	1.7 U	1.8 UJ FD	1.7 U	0.77 J Z	0.96 J Z	0.84 J Z	1.9 U
2-Methylnaphthalene	ug/kg	1.7 U	0.70 J Z	1.8 U	1.2 J Z	1.7 U	1.7 U	1.8 U	1.7 U	1.7 U	1.7 U	1.7 U	1.9 U
2-Chloronaphthalene	ug/kg	170 U	170 U	180 U	170 U	170 U	170 UJ C	180 UJ C	170 U	170 U	170 U	170 U	190 U
3,3`-Dichlorobenzidine	ug/kg	330 U	340 U	350 U	340 U	340 U	350 U	370 U	340 U	340 U	340 U	340 U	370 U
Benzidine	ug/kg	3300 R Q	3400 U	3500 U	3400 U	3400 U	3500 U	3700 R Q	3400 U	3400 U	3400 U	3400 U	3700 U
2-Methylphenol	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	180 U	170 U	170 U	170 U	170 U	190 U
2-Chlorophenol	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	180 U	170 U	170 U	170 U	170 U	190 U
2,4,5-Trichlorophenol	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	180 U	170 U	170 U	170 U	170 U	190 U
3-Nitroaniline	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	180 U	170 U	170 U	170 U	170 U	190 U
Benzyl Alcohol	ug/kg	500 U	510 U	530 U	500 U	500 U	520 U	550 U	500 U	510 U	510 U	510 U	560 U
2,6-Dinitrotoluene	ug/kg	170 U	170 U	180 U	170 U	170 U	170 U	180 U	170 U	170 U	170 U	170 U	190 U

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

Sample Name		SL-013-SA5DS-SS-0.0-0.5	SL-013-SA5DS-SB-4.0-5.0	SL-014-SA5DS-SS-0.0-0.5	SL-015-SA5DS-SS-0.0-0.5	SL-015-SA5DS-SB-3.5-4.5	SL-016-SA5DS-SS-0.0-0.5	SL-016-SA5DS-SB-4.0-5.0	SL-017-SA5DS-SS-0.0-0.5	SL-019-SA5DS-SS-0.0-0.5	SL-019-SA5DS-SB-2.0-3.0	SL-020-SA5DS-SS-0.0-0.5	SL-021-SA5DS-SS-0.0-0.5
Sample Date		09/28/2011	10/18/2011	09/28/2011	09/28/2011	10/18/2011	09/28/2011	10/19/2011	09/28/2011	09/27/2011	11/08/2011	09/27/2011	09/27/2011
SDG		DE257	DE271	DE257	DE257	DE271	DE257	DE272	DE257	DE256	DE282	DE256	DE256
Start Depth		0	4	0	0	3.5	0	4	0	0	2	0	0
End Depth		0.5	5	0.5	0.5	4.5	0.5	5	0.5	0.5	3	0.5	0.5
Chemical Name	Unit												
N-Nitrosodimethylamine (1625C)	ug/kg	--	--	--	--	--	--	--	--	--	36.1 U	--	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.7 U	1.9 U	1.7 U	1.7 U	1.8 U	1.7 U	1.8 U	1.7 U	1.7 U	1.8 U	1.7 U	1.7 U
2,4-Dinitrotoluene	ug/kg	170 U	190 U	170 U	170 U	180 U	170 U	180 U	170 U	170 U	180 U	170 U	170 U
Nitrobenzene	ug/kg	170 U	190 U	170 U	170 U	180 U	170 U	180 U	170 U	170 U	180 U	170 U	170 U
1,4-Dichlorobenzene	ug/kg	170 U	190 U	170 U	170 U	180 U	170 U	180 U	170 U	170 U	180 U	170 U	170 U
1,2,4-Trichlorobenzene	ug/kg	170 U	190 U	170 U	170 U	180 U	170 U	180 U	170 U	170 U	180 U	170 U	170 U
1,3-Dichlorobenzene	ug/kg	170 U	190 U	170 U	170 U	180 U	170 U	180 U	170 U	170 U	180 U	170 U	170 U
Hexachlorobutadiene	ug/kg	170 U	190 U	170 U	170 U	180 U	170 U	180 U	170 U	170 U	180 U	170 U	170 U
1,2-Dichlorobenzene	ug/kg	170 U	190 U	170 U	170 U	180 U	170 U	180 U	170 U	170 U	180 U	170 U	170 U
4-Nitroaniline	ug/kg	170 U	190 U	170 U	170 U	180 U	170 U	180 U	170 U	170 U	180 U	170 U	170 U
4-Nitrophenol	ug/kg	500 U	570 U	510 U	510 U	550 U	520 U	540 U	510 U	510 U	540 U	510 U	510 U
4-Bromophenyl Phenyl Ether	ug/kg	170 U	190 U	170 U	170 U	180 U	170 U	180 U	170 U	170 U	180 U	170 U	170 U
2,4-Dimethylphenol	ug/kg	170 U	190 U	170 U	170 U	180 U	170 U	180 U	170 U	170 U	180 U	170 U	170 U
4-Methylphenol	ug/kg	170 U	190 U	170 U	170 U	180 U	170 U	180 U	170 U	170 U	180 U	170 U	170 U
4-Chloroaniline	ug/kg	170 U	190 U	170 U	170 U	180 U	170 U	180 U	170 U	170 U	180 U	170 U	170 U
3,5-Dimethylphenol	ug/kg	170 U	190 U	170 U	170 U	180 U	170 U	180 U	170 U	170 U	180 U	170 U	170 U
Phenol	ug/kg	170 U	190 U	170 U	170 U	180 U	170 U	180 U	170 U	170 U	180 U	170 U	170 U
Bis(2-Chloroethyl) ether	ug/kg	170 U	190 U	170 U	170 U	180 U	170 U	180 U	170 U	170 U	180 U	170 U	170 U
Bis(2-Chloroethoxy) methane	ug/kg	170 U	190 U	170 U	170 U	180 U	170 U	180 U	170 U	170 U	180 U	170 U	170 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	6.5 J Z	20 U	130	15 J Z	20 U	10 J Z	19 U	15 J Z	18 U	12 J Z	16 J Z	7.1 J Z
Di-N-Octyl Phthalate	ug/kg	18 U	20 U	18 U	18 U	20 U	19 U	19 U	18 U	18 U	19 U	18 U	18 U
Hexachlorobenzene	ug/kg	170 U	190 U	170 U	170 U	180 U	170 U	180 U	170 U	170 U	180 U	170 U	170 U
Anthracene	ug/kg	1.7 U	1.9 U	1.7 U	1.7 U	1.8 U	1.7 U	1.8 U	1.7 U	1.7 U	1.8 U	1.7 U	1.7 U
2,4-Dichlorophenol	ug/kg	170 U	190 U	170 U	170 U	180 U	170 U	180 U	170 U	170 U	180 U	170 U	170 U
1,2-Diphenylhydrazine	ug/kg	170 U	190 U	170 U	170 U	180 U	170 U	180 U	170 U	170 U	180 U	170 U	170 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	1.1 J Z	1.9 U	1.6 J Z	1.5 J Z	1.8 U	1.3 J Z	1.8 U	3.1	1.7 U	1.8 U	1.6 J Z	0.86 J Z
Dimethylphthalate	ug/kg	18 U	20 U	18 U	18 U	20 U	19 U	19 U	18 U	18 U	19 U	18 U	18 U
Dibenzofuran	ug/kg	170 U	190 U	170 U	170 U	180 U	170 U	180 U	170 U	170 U	180 U	170 U	170 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	1.7 U	1.9 U	1.7 U	1.7 U	1.8 U	1.7 U	1.8 U	0.68 J Z	1.7 U	1.8 U	0.71 J Z	1.7 U
Indeno(1,2,3-Cd)Pyrene	ug/kg	1.7 U	1.9 U	1.7 U	1.7 U	1.8 U	1.7 U	1.8 U	0.67 J Z	1.7 U	1.8 U	1.7 U	1.7 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	4.5	1.9 U	4.7	4.2	1.8 U	5.9	1.8 U	13	1.4 J Z	1.8 U	3.8	4
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	1.1 J Z	1.9 U	1.7	1.5 J Z	1.8 U	1.4 J Z	1.8 U	3.6	1.7 U	1.8 U	1.9	0.98 J Z
Benzo(k)fluoranthene	ug/kg	1.7 U	1.9 U	1.7 U	1.7 U	1.8 U	1.7 U	1.8 U	1.7 U	1.7 U	1.8 U	1.7 U	1.7 U
Acenaphthylene	ug/kg	1.7 U	1.9 U	1.7 U	1.7 U	1.8 U	1.7 U	1.8 U	1.7 U	1.7 U	1.8 U	1.7 U	1.7 U
Chrysene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	0.81 J Z	1.9 U	1.4 J Z	1.2 J Z	1.8 U	1.2 J Z	1.8 U	3.5	0.36 J Z	1.8 U	1.7	0.93 J Z
bis(2-Chloroisopropyl) ether	ug/kg	170 U	190 U	170 U	170 U	180 U	170 U	180 U	170 U	170 U	180 U	170 U	170 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	0.74 J Z	1.9 U	1.1 J Z	0.88 J Z	1.8 U	0.85 J Z	1.8 U	2.3	1.7 U	1.8 U	1.1 J Z	1.7 U
2,4-Dinitrophenol	ug/kg	1000 U	1100 U	1000 U	1000 U	1100 U	1000 U	1100 U	1000 U	1000 U	1100 U	1000 U	1000 U
4,6-Dinitro-2-Methylphenol	ug/kg	500 U	570 U	510 U	510 U	550 U	520 U	540 U	510 U	510 U	540 U	510 U	510 U
Dibenzo(a,h)anthracene	ug/kg	1.7 U	1.9 U	1.7 U	1.7 U	1.8 U	1.7 U	1.8 U	1.0 J Z	1.7 U	1.8 U	1.7 U	1.7 U
Benzo(a)anthracene	ug/kg	1.7 U	1.9 U	0.68 J Z	1.7 U	1.8 U	1.7 U	1.8 U	1.1 J Z	1.7 U	1.8 U	0.76 J Z	1.7 U
4-Chloro-3-Methylphenol	ug/kg	170 U	190 U	170 U	170 U	180 U	170 U	180 U	170 U	170 U	180 U	170 U	170 U
N-Nitroso-Di-N-Propylamine	ug/kg	170 U	190 U	170 U	170 U	180 U	170 U	180 U	170 U	170 U	180 U	170 U	170 U
Aniline	ug/kg	500 U	570 U	510 U	510 U	550 U	520 U	540 U	510 U	510 U	540 U	510 U	510 U
Benzoic Acid	ug/kg	500 U	1200	510 U	510 U	390 J Z	520 U	540 U	510 U	510 U	540 U	510 U	510 U
Hexachloroethane	ug/kg	170 U	190 U	170 U	170 U	180 U	170 U	180 U	170 U	170 U	180 U	170 U	170 U
4-Chlorophenyl Phenylether	ug/kg	170 U	190 U	170 U	170 U	180 U	170 U	180 U	170 U	170 U	180 U	170 U	170 U
Hexachlorocyclopentadiene	ug/kg	500 U	570 U	510 U	510 U	550 U	520 U	540 U	510 U	510 U	540 U	510 U	510 U
Isophorone	ug/kg	170 U	190 U	170 U	170 U	180 U	170 U	180 U	170 U	170 U	180 U	170 U	170 U
Acenaphthene	ug/kg	1.7 U	1.9 U	1.7 U	1.7 U	1.8 U	1.7 U	1.8 U	1.7 U	1.7 U	1.8 U	1.7 U	1.7 U
Diethylphthalate	ug/kg	18 U	20 U	18 U	18 U	20 U	19 U	19 U	18 U	18 U	19 U	18 U	18 U
Di-n-Butylphthalate	ug/kg	18 U	20 U	18 U	18 U	20 U	19 U	19 U	18 U	18 U	19 U	18 U	18 U
Phenanthrene	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Phenanthrene	ug/kg	0.75 J Z	1.9 U	1.0 J Z	1.0 J Z	1.8 U	1.1 J Z	1.8 U	1.4 J Z	1.7 U	1.8 U	1.0 J Z	0.76 J Z
Butylbenzylphthalate	ug/kg	18 U	20 U	18 U	18 U	20 U	19 U	19 U	48	18 U	19 U	6.6 J Z	18 U
N-Nitrosodiphenylamine	ug/kg	170 U	190 U	170 U	170 U	180 U	170 U	180 U	170 U	170 U	180 U	170 U	170 U
Fluorene	ug/kg	1.7 U	1.9 U	1.7 U	1.7 U	1.8 U	0.81 J Z	1.8 U	1.3 J Z	1.7 U	1.8 U	1.7 U	1.7 U
Carbazole	ug/kg	170 U	190 U	170 U	170 U	180 U	170 U	180 U	170 U	170 U	180 U	170 U	170 U
Pentachlorophenol	ug/kg	500 U	570 U	510 U	510 U	550 U	520 U	540 U	510 U	510 U	540 U	510 U	510 U
2,4,6-Trichlorophenol	ug/kg	170 U	190 U	170 U	170 U	180 U	170 U	180 U	170 U	170 U	180 U	170 U	170 U
2-Nitroaniline	ug/kg	170 U	190 U	170 U	170 U	180 U	170 U	180 U	170 U	170 U	180 U	170 U	170 U
2-Nitrophenol	ug/kg	170 U	190 U	170 U	170 U	180 U	170 U	180 U	170 U	170 U	180 U	170 U	170 U
1-Methylnaphthalene	ug/kg	1.7 U	1.9 U	1.7 U	1.7 U	1.8 U	1.7 U	1.8 U	1.7 U	1.7 U	1.8 U	1.7 U	1.7 U
Naphthalene	ug/kg	0.73 J Z	1.9 U	0.80 J Z	0.69 J Z	1.8 U	0.75 J Z	1.8 U	0.95 J Z	1.7 U	1.8 U	1.0 J Z	1.7 U
2-Methylnaphthalene	ug/kg	1.7 U	1.9 U	1.7 U	1.7 U	1.8 U	1.7 U	1.8 U	1.7 U	1.7 U	1.8 U	1.7 U	1.7 U
2-Chloronaphthalene	ug/kg	170 U	190 U	170 U	170 U	180 U	170 U	180 U	170 U	170 U	180 U	170 U	170 U
3,3`-Dichlorobenzidine	ug/kg	340 U	380 U	340 U	340 U	370 U	350 U	360 U	340 U	340 U	360 U	340 U	340 U
Benzidine	ug/kg	3400 U	3800 UJ Q	3400 U	3400 U	3700 U	3500 U	3600 R Q	3400 U	3400 U	3600 U	3400 U	3400 U
2-Methylphenol	ug/kg	170 U	190 U	170 U	170 U	180 U	170 U	180 U	170 U	170 U	180 U	170 U	170 U
2-Chlorophenol	ug/kg	170 U	190 U	170 U	170 U	180 U	170 U	180 U	170 U	170 U	180 U	170 U	170 U
2,4,5-Trichlorophenol	ug/kg	170 U	190 U	170 U	170 U	180 U	170 U	180 U	170 U	170 U	180 U	170 U	170 U
3-Nitroaniline	ug/kg	170 U	190 U	170 U	170 U	180 U	170 U	180 U	170 U	170 U	180 U	170 U	170 U
Benzyl Alcohol	ug/kg	500 U	570 U	510 U	510 U	550 U	520 U	540 U	510 U	510 U	540 U	510 U	510 U
2,6-Dinitrotoluene	ug/kg	170 U	190 U	170 U	170 U	180 U	170 U	180 U	170 U	170 U	180 U	170 U	170 U

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

Sample Name		SL-021-SA5DS-SB-2.0-3.0	SL-022-SA5DS-SS-0.0-0.5	SL-022-SA5DS-SB-4.0-5.0	SL-023-SA5DS-SS-0.0-0.5	SL-024-SA5DS-SS-0.0-0.5	SL-025-SA5DS-SS-0.0-0.5	SL-026-SA5DS-SS-0.0-0.5	SL-026-SA5DS-SB-4.0-5.0	SL-026-SA5DS-SB-9.0-10.0	SL-027-SA5DS-SS-0.0-0.5	SL-028-SA5DS-SS-0.0-0.5	SL-028-SA5DS-SB-1.9-2.9
Sample Date		11/09/2011	09/27/2011	11/09/2011	09/27/2011	09/27/2011	09/27/2011	09/26/2011	10/20/2011	10/20/2011	09/26/2011	09/26/2011	11/11/2011
SDG		DE283	DE256	DE283	DE256	DE256	DE256	DE253	DE273	DE273	DE253	DE253	DE285
Start Depth		2	0	4	0	0	0	0	4	9	0	0	1.9
End Depth		3	0.5	5	0.5	0.5	0.5	0.5	5	10	0.5	0.5	2.9
Chemical Name	Unit												
N-Nitrosodimethylamine (1625C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.8 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.8 U	1.8 U	8.4 U	1.7 U	1.8 U
2,4-Dinitrotoluene	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	8300 U	180 U	180 U	840 U	170 U	180 U
Nitrobenzene	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	8300 U	180 U	180 U	840 U	170 U	180 U
1,4-Dichlorobenzene	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	8300 U	180 U	180 U	840 U	170 U	180 U
1,2,4-Trichlorobenzene	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	8300 U	180 U	180 U	840 U	170 U	180 U
1,3-Dichlorobenzene	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	8300 U	180 U	180 U	840 U	170 U	180 U
Hexachlorobutadiene	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	8300 U	180 U	180 U	840 U	170 U	180 U
1,2-Dichlorobenzene	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	8300 U	180 U	180 U	840 U	170 U	180 U
4-Nitroaniline	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	8300 U	180 U	180 U	840 U	170 U	180 U
4-Nitrophenol	ug/kg	540 U	510 U	520 U	510 U	510 U	500 U	25000 U	540 U	550 U	2500 U	500 U	530 U
4-Bromophenyl Phenyl Ether	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	8300 U	180 U	180 U	840 U	170 U	180 U
2,4-Dimethylphenol	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	8300 U	180 U	180 U	840 U	170 U	180 U
4-Methylphenol	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	8300 U	180 U	180 U	840 U	170 U	180 U
4-Chloroaniline	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	8300 U	180 U	180 U	840 U	170 U	180 U
3,5-Dimethylphenol	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	8300 U	180 U	180 U	840 U	170 U	180 U
Phenol	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	8300 U	180 U	180 U	840 U	18 J Z	180 U
Bis(2-Chloroethyl) ether	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	8300 U	180 U	180 U	840 U	170 U	180 U
Bis(2-Chloroethoxy) methane	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	8300 U	180 U	180 U	840 U	170 U	180 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	--	--	--	--	18 J Z	--	--	--	--	--	--	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	12 J Z	23	27 J S	6.6 J Z	--	21	9.0 J Z	9.1 J Z	11 J Z	33 J Z	18 U	10 J Z
Di-N-Octyl Phthalate	ug/kg	9.5 J Z	18 U	18 J S, Z	18 U	18 U	18 U	18 U	19 U	19 U	90 U	18 U	19 U
Hexachlorobenzene	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	8300 U	180 U	180 U	840 U	170 U	180 U
Anthracene	ug/kg	0.43 J Z	1.7 U	11 J S	1.7 U	1.7 U	1.7 U	25	1.8 U	1.8 U	8.4 U	1.7 U	1.7 J Z
2,4-Dichlorophenol	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	8300 U	180 U	180 U	840 U	170 U	180 U
1,2-Diphenylhydrazine	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	8300 U	180 U	180 U	840 U	170 U	180 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--	1300 J Z	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	1.8 U	3.2	12 J S	2.9	1.5 J Z	2.7	--	1.8 U	1.8 U	7.4 J Z	0.82 J Z	2.1
Dimethylphthalate	ug/kg	19 U	18 U	6.3 J S, Z	18 U	18 U	18 U	18 U	19 U	19 U	90 U	18 U	19 U
Dibenzofuran	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	8300 U	180 U	180 U	840 U	170 U	180 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--	1100 J Z	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	1.8 U	1.1 J Z	10 J S	1.7 U	1.0 J Z	1.4 J Z	--	1.8 U	1.8 U	8.4 U	1.7 U	1.8
Indeno(1,2,3-Cd)Pyrene	ug/kg	1.8 U	0.89 J Z	11 J S	1.7 U	0.70 J Z	1.1 J Z	78	1.8 U	1.8 U	8.4 U	1.7 U	1.7 J Z
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	1400 J Z	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	1.8 U	7.3	13 J S	2.8	2.9	4.5	--	1.8 U	1.8 U	34	1.8	3.2
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	1100 J Z	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	1.8 U	3.8	15 J S	1.9	1.7	3.1	--	1.8 U	1.8 U	8.4 U	0.86 J Z	2.6
Benzo(k)fluoranthene	ug/kg	1.8 U	1.7 U	13 J S	0.90 J Z	1.7 U	1.7 U	150	1.8 U	1.8 U	8.4 U	0.72 J Z	2.8
Acenaphthylene	ug/kg	1.8 U	1.7 U	0.90 J S, Z	1.7 U	1.7 U	1.7 U	0.48 J Z	1.8 U	1.8 U	8.4 U	1.7 U	1.8 U
Chrysene (8270C)	ug/kg	--	--	--	--	--	--	1500 J Z	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	0.53 J Z	2.5	14 J S	1.6 J Z	1.4 J Z	2.2	--	1.8 U	1.8 U	20	1.1 J Z	3.4
bis(2-Chloroisopropyl) ether	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	8300 U	180 U	180 U	840 U	170 U	180 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--	1400 J Z	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	1.8 U	2	12 J S	1.7	0.79 J Z	1.5 J Z	--	1.8 U	1.8 U	8.4 U	1.1 J Z	2.3
2,4-Dinitrophenol	ug/kg	1100 U	1000 U	1000 U	1000 U	1000 U	1000 U	50000 U	1100 U	1100 U	5000 U	1000 U	1100 U
4,6-Dinitro-2-Methylphenol	ug/kg	540 U	510 U	520 U	510 U	510 U	500 U	25000 UJ L	540 U	550 U	2500 UJ L	500 UJ L	530 U
Dibenzo(a,h)anthracene	ug/kg	1.8 U	1.7 U	11 J S	1.7 U	1.7 U	1.7 U	27	1.8 U	1.8 U	8.4 U	1.7 U	1.7 J Z
Benzo(a)anthracene	ug/kg	1.8 U	1.1 J Z	15 J S	1.5 J Z	1.7 U	1.1 J Z	180	1.8 U	1.8 U	3.9 J Z	0.80 J Z	2.6
4-Chloro-3-Methylphenol	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	8300 U	180 U	180 U	840 U	170 U	180 U
N-Nitroso-Di-N-Propylamine	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	8300 U	180 U	180 U	840 U	170 U	180 U
Aniline	ug/kg	540 U	510 U	520 U	510 U	510 U	500 U	25000 U	540 U	550 U	2500 U	500 U	530 U
Benzoic Acid	ug/kg	540 U	510 U	200 J Z	510 U	510 U	500 U	25000 U	540 U	550 U	2500 U	500 U	530 U
Hexachloroethane	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	8300 U	180 U	180 U	840 U	170 U	180 U
4-Chlorophenyl Phenylether	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	8300 U	180 U	180 U	840 U	170 U	180 U
Hexachlorocyclopentadiene	ug/kg	540 U	510 U	520 U	510 U	510 U	500 U	25000 U	540 U	550 U	2500 U	500 U	530 U
Isophorone	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	8300 U	180 U	180 U	840 U	170 U	180 U
Acenaphthene	ug/kg	1.8 U	1.7 U	1.0 J S, Z	1.7 U	1.7 U	1.7 U	11	1.8 U	1.8 U	8.4 U	1.7 U	1.8 U
Diethylphthalate	ug/kg	19 U	18 U	10 J S, Z	18 U	18 U	18 U	18 U	19 U	19 U	90 U	18 U	19 U
Di-n-Butylphthalate	ug/kg	19 U	18 U	19 J S	18 U	18 U	18 U	18 U	8.2 J Z	8.0 J Z	90 U	18 U	19 U
Phenanthrene	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Phenanthrene	ug/kg	1.8 U	2.2	10 J S	1.7 U	1.3 J Z	1.5 J Z	99	1.8 U	1.8 U	4.5 J Z	1.7 U	1.8
Butylbenzylphthalate	ug/kg	19 U	10 J Z	17 J S, Z	18 U	18 U	6.6 J Z	18 U	19 U	19 U	90 U	18 U	12 J Z
N-Nitrosodiphenylamine	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	8300 U	180 U	180 U	840 U	170 U	180 U
Fluorene	ug/kg	1.8 U	1.7 U	4.1 J S	1.7 U	1.7 U	1.7 U	6.7	1.8 U	1.8 U	8.4 U	1.7 U	0.71 J Z
Carbazole	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	8300 U	180 U	180 U	840 U	170 U	180 U
Pentachlorophenol	ug/kg	540 U	510 U	520 U	510 U	510 U	500 U	25000 U	540 U	550 U	2500 U	500 U	530 U
2,4,6-Trichlorophenol	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	8300 U	180 U	180 U	840 U	170 U	180 U
2-Nitroaniline	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	8300 U	180 U	180 U	840 U	170 U	180 U
2-Nitrophenol	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	8300 U	180 U	180 U	840 U	170 U	180 U
1-Methylnaphthalene	ug/kg	1.8 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.8 U	1.8 U	8.4 U	1.7 U	1.8 U
Naphthalene	ug/kg	1.8 U	0.87 J Z	1.7 U	1.7 U	1.6 J Z	0.74 J Z	0.99 J Z	1.8 U	1.8 U	8.4 U	1.7 U	1.8 U
2-Methylnaphthalene	ug/kg	1.8 U	1.7 U	1.7 U	1.7 U	0.71 J Z	1.7 U	1.7 U	1.8 U	1.8 U	8.4 U	1.7 U	1.8 U
2-Chloronaphthalene	ug/kg	180 UJ C	170 U	170 UJ C	170 U	170 U	170 U	8300 U	180 U	180 U	840 U	170 U	180 U
3,3`-Dichlorobenzidine	ug/kg	360 U	340 U	350 U	340 U	340 U	330 U	17000 U	360 U	360 U	1700 U	330 U	350 U
Benzidine	ug/kg	3600 U	3400 U	3500 U	3400 U	3400 U	3300 U	170000 U	3600 U	3600 U	17000 U	3300 U	3500 U
2-Methylphenol	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	8300 U	180 U	180 U	840 U	170 U	180 U
2-Chlorophenol	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	8300 U	180 U	180 U	840 U	170 U	180 U
2,4,5-Trichlorophenol	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	8300 U	180 U	180 U	840 U	170 U	180 U
3-Nitroaniline	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	8300 U	180 U	180 U	840 U	170 U	180 U
Benzyl Alcohol	ug/kg	540 U	510 U	520 U	510 U	510 U	500 U	25000 U	540 U	550 U	2500 U	500 U	530 U
2,6-Dinitrotoluene	ug/kg	180 U	170 U	170 U	170 U	170 U	170 U	8300 U	180 U	180 U	840 U	170 U	180 U

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

Sample Name		SL-029-SA5DS-SS-0.0-0.5	SL-029-SA5DS-SB-3.5-4.5	SL-030-SA5DS-SS-0.0-0.5	SL-031-SA5DS-SS-0.0-0.5	SL-031-SA5DS-SB-4.0-5.0	SL-031-SA5DS-SB-9.0-10.0	SL-032-SA5DS-SS-0.0-0.5	SL-033-SA5DS-SS-0.0-0.5	SL-033-SA5DS-SB-2.0-3.0	SL-034-SA5DS-SS-0.0-0.5	SL-034-SA5DS-SB-4.0-5.0	SL-034-SA5DS-SB-9.0-10.0
Sample Date		09/26/2011	11/11/2011	09/26/2011	09/26/2011	11/14/2011	11/14/2011	09/26/2011	09/28/2011	10/17/2011	09/28/2011	10/17/2011	10/17/2011
SDG		DE253	DE285	DE253	DE253	DE286	DE286	DE253	DE257	DE270	DE257	DE270	DE270
Start Depth		0	3.5	0	0	4	9	0	0	2	0	4	9
End Depth		0.5	4.5	0.5	0.5	5	10	0.5	0.5	3	0.5	5	10
Chemical Name	Unit												
N-Nitrosodimethylamine (1625C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.7 U	1.8 U	1.7 U	1.7 U	1.8 U	1.8 U	1.7 U	1.7 U	1.9 U	1.7 U	1.9 U	1.9 U
2,4-Dinitrotoluene	ug/kg	170 U	180 U	170 U	170 U	180 U	180 U	170 U	170 U	190 U	170 U	190 U	190 U
Nitrobenzene	ug/kg	170 U	180 U	170 U	170 U	180 U	180 U	170 U	170 U	190 U	170 U	190 U	190 U
1,4-Dichlorobenzene	ug/kg	170 U	180 U	170 U	170 U	180 U	180 U	170 U	170 U	190 U	170 U	190 U	190 U
1,2,4-Trichlorobenzene	ug/kg	170 U	180 U	170 U	170 U	180 U	180 U	170 U	170 U	190 U	170 U	190 U	190 U
1,3-Dichlorobenzene	ug/kg	170 U	180 U	170 U	170 U	180 U	180 U	170 U	170 U	190 U	170 U	190 U	190 U
Hexachlorobutadiene	ug/kg	170 U	180 U	170 U	170 U	180 U	180 U	170 U	170 U	190 U	170 U	190 U	190 U
1,2-Dichlorobenzene	ug/kg	170 U	180 U	170 U	170 U	180 U	180 U	170 U	170 U	190 U	170 U	190 U	190 U
4-Nitroaniline	ug/kg	170 U	180 U	170 U	170 U	180 U	180 U	170 U	170 U	190 U	170 U	190 U	190 U
4-Nitrophenol	ug/kg	510 U	540 U	510 U	520 U	550 U	550 U	510 U	520 U	570 U	520 U	570 U	560 U
4-Bromophenyl Phenyl Ether	ug/kg	170 U	180 U	170 U	170 U	180 U	180 U	170 U	170 U	190 U	170 U	190 U	190 U
2,4-Dimethylphenol	ug/kg	170 U	180 U	170 U	170 U	180 U	180 U	170 U	170 U	190 U	170 U	190 U	190 U
4-Methylphenol	ug/kg	170 U	180 U	170 U	170 U	180 U	180 U	170 U	170 U	190 U	170 U	190 U	190 U
4-Chloroaniline	ug/kg	170 U	180 U	170 U	170 U	180 U	180 U	170 U	170 U	190 U	170 U	190 U	190 U
3,5-Dimethylphenol	ug/kg	170 U	180 U	170 U	170 U	180 U	180 U	170 U	170 U	190 U	170 U	190 U	190 U
Phenol	ug/kg	18 J Z	180 U	170 U	20 J Z	180 U	180 U	18 J Z	170 U	190 U	170 U	190 U	190 U
Bis(2-Chloroethyl) ether	ug/kg	170 U	180 U	170 U	170 U	180 U	180 U	170 U	170 U	190 U	170 U	190 U	190 U
Bis(2-Chloroethoxy) methane	ug/kg	170 U	180 U	170 U	170 U	180 U	180 U	170 U	170 U	190 U	170 U	190 U	190 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	--	--	--	18 J Z	--	--	--	--	--	--	--	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	10 J Z	7.5 J Z	13 J Z	--	20 U	13 J Z	66	8.4 J Z	20 U	18 U	20 U	20 U
Di-N-Octyl Phthalate	ug/kg	7.5 J Z	19 U	25	19 U	20 U	20 U	9.6 J Z	19 U	20 U	18 U	20 U	20 U
Hexachlorobenzene	ug/kg	170 U	180 U	170 U	170 U	180 U	180 U	170 U	170 U	190 U	170 U	190 U	190 U
Anthracene	ug/kg	1.7 U	1.8 U	1.7 U	1.7 U	1.8 U	0.43 J Z	0.57 J Z	1.7 U	1.9 U	1.7 U	1.9 U	1.9 U
2,4-Dichlorophenol	ug/kg	170 U	180 U	170 U	170 U	180 U	180 U	170 U	170 U	190 U	170 U	190 U	190 U
1,2-Diphenylhydrazine	ug/kg	170 U	180 U	170 U	170 U	180 U	180 U	170 U	170 U	190 U	170 U	190 U	190 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	2.6	1.8 U	2.3	1.7 U	1.8 U	0.74 J Z	12	1.7 U	1.9 U	1.7 U	1.9 U	1.9 U
Dimethylphthalate	ug/kg	19 U	19 U	18 U	19 U	20 U	20 U	18 U	19 U	20 U	18 U	20 U	20 U
Dibenzofuran	ug/kg	170 U	180 U	170 U	170 U	180 U	180 U	170 U	170 U	190 U	170 U	190 U	190 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	1.2 J Z	1.8 U	1.7 U	1.7 U	1.8 U	1.8 U	1.3 J Z	1.7 U	1.9 U	1.7 U	1.9 U	1.9 U
Indeno(1,2,3-Cd)Pyrene	ug/kg	0.76 J Z	1.8 U	0.94 J Z	1.7 U	1.8 U	1.8 U	1.4 J Z	1.7 U	1.9 U	1.7 U	1.9 U	1.9 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	4.1	1.8 U	19	1.7 U	1.8 U	1.8 U	20	0.96 J Z	1.9 U	1.0 J FD, Z	1.9 U	1.9 U
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	2.9	1.8 U	2.6	1.7 U	1.8 U	0.91 J Z	12	1.7 U	1.9 U	1.7 U	1.9 U	1.9 U
Benzo(k)fluoranthene	ug/kg	1.2 J Z	1.8 U	1.7 U	1.7 U	1.8 U	1.8 U	1.7 U	1.7 U	1.9 U	1.7 U	1.9 U	1.9 U
Acenaphthylene	ug/kg	1.7 U	1.8 U	2.9	1.7 U	1.8 U	1.8 U	1.7 U	1.7 U	1.9 U	1.7 U	1.9 U	1.9 U
Chrysene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	2.2	1.8 U	4.4	1.7 U	1.8 U	0.80 J Z	8.5	1.7 U	1.9 U	1.7 U	1.9 U	1.9 U
bis(2-Chloroisopropyl) ether	ug/kg	170 U	180 U	170 U	170 U	180 U	180 U	170 U	170 U	190 U	170 U	190 U	190 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	1.9	1.8 U	3.5	1.7 U	1.8 U	1.8 U	6.8	1.7 U	1.9 U	1.7 U	1.9 U	1.9 U
2,4-Dinitrophenol	ug/kg	1000 U	1100 U	1000 U	1000 U	1100 U	1100 U	1000 U	1000 U	1100 U	1000 U	1100 UJ Q	1100 U
4,6-Dinitro-2-Methylphenol	ug/kg	510 UJ L	540 U	510 UJ L	520 UJ L	550 U	550 U	510 UJ L	520 U	570 U	520 U	570 U	560 U
Dibenzo(a,h)anthracene	ug/kg	1.7 U	1.8 U	1.7 U	1.7 U	1.8 U	1.8 U	1.7 U	1.7 U	1.9 U	1.7 U	1.9 U	1.9 U
Benzo(a)anthracene	ug/kg	1.3 J Z	1.8 U	10	1.7 U	1.8 U	1.8 U	6.7	1.7 U	1.9 U	1.7 U	1.9 U	1.9 U
4-Chloro-3-Methylphenol	ug/kg	170 U	180 U	170 U	170 U	180 U	180 U	170 U	170 U	190 U	170 U	190 U	190 U
N-Nitroso-Di-N-Propylamine	ug/kg	170 U	180 U	170 U	170 U	180 U	180 U	170 U	170 U	190 U	170 U	190 U	190 U
Aniline	ug/kg	510 U	540 U	510 U	520 U	550 U	550 U	510 U	520 U	570 U	520 U	570 U	560 U
Benzoic Acid	ug/kg	510 U	540 U	510 U	520 U	550 U	550 U	510 U	520 U	570 U	520 U	570 U	560 U
Hexachloroethane	ug/kg	170 U	180 U	170 U	170 U	180 U	180 U	170 U	170 U	190 U	170 U	190 U	190 U
4-Chlorophenyl Phenylether	ug/kg	170 U	180 U	170 U	170 U	180 U	180 U	170 U	170 U	190 U	170 U	190 U	190 U
Hexachlorocyclopentadiene	ug/kg	510 U	540 U	510 U	520 U	550 U	550 U	510 U	520 U	570 U	520 U	570 U	560 U
Isophorone	ug/kg	170 U	180 U	170 U	170 U	180 U	180 U	170 U	170 U	190 U	170 U	190 U	190 U
Acenaphthene	ug/kg	1.7 U	1.8 U	1.7 U	1.7 U	1.8 U	1.8 U	1.7 U	1.7 U	1.9 U	1.7 U	1.9 U	1.9 U
Diethylphthalate	ug/kg	19 U	19 U	18 U	19 U	20 U	20 U	18 U	19 U	20 U	18 U	20 U	20 U
Di-n-Butylphthalate	ug/kg	19 U	19 U	18 U	19 U	20 U	20 U	18 U	19 U	20 U	18 U	20 U	20 U
Phenanthrene	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Phenanthrene	ug/kg	2.3	1.8 U	1.4 J Z	1.7 U	1.8 U	0.85 J Z	2.8	1.7 U	1.9 U	1.7 U	1.9 U	1.9 U
Butylbenzylphthalate	ug/kg	19 U	12 J Z	200	19 U	20 U	8.5 J Z	18	19 U	20 U	18 U	20 U	20 U
N-Nitrosodiphenylamine	ug/kg	170 U	180 U	170 U	170 U	180 U	180 U	170 U	170 U	190 U	170 U	190 U	190 U
Fluorene	ug/kg	1.7 U	1.8 U	3.5	1.7 U	1.8 U	1.8 U	1.7 U	1.7 U	1.9 U	1.7 U	1.9 U	1.9 U
Carbazole	ug/kg	170 U	180 U	170 U	170 U	180 U	180 U	170 U	170 U	190 U	170 U	190 U	190 U
Pentachlorophenol	ug/kg	510 U	540 U	510 U	520 U	550 U	550 U	510 U	520 U	570 U	520 U	570 U	560 U
2,4,6-Trichlorophenol	ug/kg	170 U	180 U	170 U	170 U	180 U	180 U	170 U	170 U	190 U	170 U	190 U	190 U
2-Nitroaniline	ug/kg	170 U	180 U	170 U	170 U	180 U	180 U	170 U	170 U	190 U	170 U	190 U	190 U
2-Nitrophenol	ug/kg	170 U	180 U	170 U	170 U	180 U	180 U	170 U	170 U	190 U	170 U	190 U	190 U
1-Methylnaphthalene	ug/kg	1.7 U	1.8 U	1.7 U	1.7 U	1.8 U	1.8 U	0.84 J Z	1.7 U	1.9 U	1.7 U	1.9 U	1.9 U
Naphthalene	ug/kg	1.7 U	1.8 U	0.99 J Z	1.7 U	1.8 U	0.83 J Z	1.5 J Z	1.7 U	1.9 U	1.7 U	1.9 U	1.9 U
2-Methylnaphthalene	ug/kg	1.7 U	1.8 U	1.7 U	1.7 U	1.8 U	1.8 U	0.81 J Z	1.7 U	1.9 U	1.7 U	1.9 U	1.9 U
2-Chloronaphthalene	ug/kg	170 U	180 U	170 U	170 U	180 U	180 U	170 U	170 U	190 U	170 U	190 U	190 U
3,3`-Dichlorobenzidine	ug/kg	340 U	360 U	340 U	340 U	370 U	370 U	340 U	350 U	380 U	340 U	380 U	370 U
Benzidine	ug/kg	3400 U	3600 U	3400 U	3400 U	3700 U	3700 U	3400 U	3500 U	3800 U	3400 R Q	3800 U	3700 U
2-Methylphenol	ug/kg	170 U	180 U	170 U	170 U	180 U	180 U	170 U	170 U	190 U	170 U	190 U	190 U
2-Chlorophenol	ug/kg	170 U	180 U	170 U	170 U	180 U	180 U	170 U	170 U	190 U	170 U	190 U	190 U
2,4,5-Trichlorophenol	ug/kg	170 U	180 U	170 U	170 U	180 U	180 U	170 U	170 U	190 U	170 U	190 U	190 U
3-Nitroaniline	ug/kg	170 U	180 U	170 U	170 U	180 U	180 U	170 U	170 U	190 U	170 U	190 U	190 U
Benzyl Alcohol	ug/kg	510 U	540 U	510 U	520 U	550 U	550 U	510 U	520 U	570 U	520 U	570 U	560 U
2,6-Dinitrotoluene	ug/kg	170 U	180 U	170 U	170 U	180 U	180 U	170 U	170 U	190 U	170 U	190 U	190 U

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

Sample Name		SL-036-SA5DS-SB-4.0-5.0	SL-036-SA5DS-SB-9.0-10.0	SL-037-SA5DS-SB-4.0-5.0	SL-037-SA5DS-SB-9.0-10.0	SL-038-SA5DS-SS-0.0-0.5	SL-038-SA5DS-SB-4.0-5.0	SL-038-SA5DS-SB-9.0-10.0	SL-039-SA5DS-SB-3.0-4.0	SL-040-SA5DS-SS-0.0-0.5	SL-040-SA5DS-SB-4.0-5.0	SL-040-SA5DS-SB-9.0-10.0
Sample Date		10/14/2011	10/14/2011	10/14/2011	10/14/2011	09/27/2011	10/14/2011	10/14/2011	10/17/2011	09/28/2011	10/20/2011	10/20/2011
SDG		DE269	DE269	DE269	DE269	DE256	DE269	DE269	DE270	DE257	DE273	DE273
Start Depth		4	9	4	9	0	4	9	3	0	4	9
End Depth		5	10	5	10	0.5	5	10	4	0.5	5	10
Chemical Name	Unit											
N-Nitrosodimethylamine (1625C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.9 U	1.9 U	1.9 U	2.0 U	1.7 U	1.8 U	1.8 U	1.8 U	1.7 U	1.8 U	1.8 U
2,4-Dinitrotoluene	ug/kg	190 U	190 U	190 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	180 U
Nitrobenzene	ug/kg	190 U	190 U	190 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	180 U
1,4-Dichlorobenzene	ug/kg	190 U	190 U	190 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	180 U
1,2,4-Trichlorobenzene	ug/kg	190 U	190 U	190 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	180 U
1,3-Dichlorobenzene	ug/kg	190 U	190 U	190 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	180 U
Hexachlorobutadiene	ug/kg	190 U	190 U	190 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	180 U
1,2-Dichlorobenzene	ug/kg	190 U	190 U	190 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	180 U
4-Nitroaniline	ug/kg	190 U	190 U	190 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	180 U
4-Nitrophenol	ug/kg	570 U	570 U	570 U	580 U	510 U	540 U	540 U	540 U	500 U	540 U	540 U
4-Bromophenyl Phenyl Ether	ug/kg	190 U	190 U	190 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	180 U
2,4-Dimethylphenol	ug/kg	190 U	190 U	190 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	180 U
4-Methylphenol	ug/kg	190 U	190 U	190 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	180 U
4-Chloroaniline	ug/kg	190 U	190 U	190 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	180 U
3,5-Dimethylphenol	ug/kg	190 U	190 U	190 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	180 U
Phenol	ug/kg	190 U	190 U	190 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	180 U
Bis(2-Chloroethyl) ether	ug/kg	190 U	190 U	190 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	180 U
Bis(2-Chloroethoxy) methane	ug/kg	190 U	190 U	190 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	180 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	--	--	--	27 J Z	--	--	--	--	--	--	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	9.3 J Z	21 U	21 U	--	11 J Z	7.1 J Z	9.0 J Z	19 U	13 J Z	8.3 J Z	8.4 J Z
Di-N-Octyl Phthalate	ug/kg	20 U	21 U	21 U	21 U	19 U	19 U	19 U	19 U	18 U	19 U	19 U
Hexachlorobenzene	ug/kg	190 U	190 U	190 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	180 U
Anthracene	ug/kg	1.9 U	1.9 U	1.9 U	2.0 U	1.7 U	1.8 U	1.8 U	1.8 U	1.7 U	1.8 U	1.8 U
2,4-Dichlorophenol	ug/kg	190 U	190 U	190 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	180 U
1,2-Diphenylhydrazine	ug/kg	190 U	190 U	190 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	180 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.9 U	2.0 U	0.89 J Z	1.8 U	1.8 U	1.8 U	2.2	1.8 U	1.8 U
Dimethylphthalate	ug/kg	20 U	21 U	21 U	21 U	19 U	19 U	19 U	19 U	18 U	19 U	19 U
Dibenzofuran	ug/kg	190 U	190 U	190 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	180 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.9 U	2.0 U	1.7 U	1.8 U	1.8 U	1.8 U	1.7 U	1.8 U	1.8 U
Indeno(1,2,3-Cd)Pyrene	ug/kg	1.9 U	1.9 U	1.9 U	2.0 U	1.7 U	1.8 U	1.8 U	1.8 U	1.7 U	1.8 U	1.8 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.9 U	2.0 U	2	1.8 U	1.8 U	1.8 U	6.7	1.8 U	1.8 U
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.9 U	2.0 U	0.92 J Z	1.8 U	1.8 U	1.8 U	2.3	1.8 U	1.8 U
Benzo(k)fluoranthene	ug/kg	1.9 U	1.9 U	1.9 U	2.0 U	1.7 U	1.8 U	1.8 U	1.8 U	1.7 U	1.8 U	1.8 U
Acenaphthylene	ug/kg	1.9 U	1.9 U	1.9 U	2.0 U	1.7 U	1.8 U	1.8 U	1.8 U	1.7 U	1.8 U	1.8 U
Chrysene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.9 U	2.0 U	0.78 J Z	1.8 U	1.8 U	1.8 U	1.9	1.8 U	1.8 U
bis(2-Chloroisopropyl) ether	ug/kg	190 U	190 U	190 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	180 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.9 U	2.0 U	1.7 U	1.8 U	1.8 U	1.8 U	1.2 J Z	1.8 U	1.8 U
2,4-Dinitrophenol	ug/kg	1100 U	1100 U	1100 U	1200 U	1000 U	1100 U	1100 U	1100 U	1000 U	1100 U	1100 U
4,6-Dinitro-2-Methylphenol	ug/kg	570 U	570 U	570 U	580 U	510 U	540 U	540 U	540 U	500 U	540 U	540 U
Dibenzo(a,h)anthracene	ug/kg	1.9 U	1.9 U	1.9 U	2.0 U	1.7 U	1.8 U	1.8 U	1.8 U	1.7 U	1.8 U	1.8 U
Benzo(a)anthracene	ug/kg	1.9 U	1.9 U	1.9 U	2.0 U	1.7 U	1.8 U	1.8 U	1.8 U	0.77 J Z	1.8 U	1.8 U
4-Chloro-3-Methylphenol	ug/kg	190 U	190 U	190 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	180 U
N-Nitroso-Di-N-Propylamine	ug/kg	190 U	190 U	190 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	180 U
Aniline	ug/kg	570 U	570 U	570 U	580 U	510 U	540 U	540 U	540 U	500 U	540 U	540 U
Benzoic Acid	ug/kg	570 U	570 U	570 U	580 U	510 U	540 U	540 U	540 U	500 U	540 U	540 U
Hexachloroethane	ug/kg	190 U	190 U	190 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	180 U
4-Chlorophenyl Phenylether	ug/kg	190 U	190 U	190 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	180 U
Hexachlorocyclopentadiene	ug/kg	570 U	570 U	570 U	580 U	510 U	540 U	540 U	540 U	500 U	540 U	540 U
Isophorone	ug/kg	190 U	190 U	190 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	180 U
Acenaphthene	ug/kg	1.9 U	1.9 U	1.9 U	2.0 U	1.7 U	1.8 U	1.8 U	1.8 U	1.7 U	1.8 U	1.8 U
Diethylphthalate	ug/kg	20 U	21 U	21 U	21 U	19 U	19 U	19 U	19 U	18 U	19 U	19 U
Di-n-Butylphthalate	ug/kg	20 U	21 U	21 U	21 U	19 U	19 U	19 U	19 U	18 U	7.7 J Z	7.7 J Z
Phenanthrene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Phenanthrene	ug/kg	1.9 U	1.9 U	1.9 U	2.0 U	1.7 U	1.8 U	1.8 U	1.8 U	1.5 J Z	1.8 U	1.8 U
Butylbenzylphthalate	ug/kg	20 U	21 U	21 U	21 U	19 U	19 U	19 U	19 U	8.8 J Z	19 U	19 U
N-Nitrosodiphenylamine	ug/kg	190 U	190 U	190 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	180 U
Fluorene	ug/kg	1.9 U	1.9 U	1.9 U	2.0 U	1.7 U	1.8 U	1.8 U	1.8 U	1.7 U	1.8 U	1.8 U
Carbazole	ug/kg	190 U	190 U	190 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	180 U
Pentachlorophenol	ug/kg	570 U	570 U	570 U	580 U	510 U	540 U	540 U	540 U	500 U	540 U	540 U
2,4,6-Trichlorophenol	ug/kg	190 U	190 U	190 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	180 U
2-Nitroaniline	ug/kg	190 U	190 U	190 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	180 U
2-Nitrophenol	ug/kg	190 U	190 U	190 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	180 U
1-Methylnaphthalene	ug/kg	1.9 U	1.9 U	1.9 U	2.0 U	1.7 U	1.8 U	1.8 U	1.8 U	1.7 U	1.8 U	1.8 U
Naphthalene	ug/kg	1.9 U	1.9 U	1.9 U	2.0 U	1.7 U	1.8 U	1.8 U	1.8 U	1.4 J Z	1.8 U	1.8 U
2-Methylnaphthalene	ug/kg	1.9 U	1.9 U	1.9 U	2.0 U	1.7 U	1.8 U	1.8 U	1.8 U	1.7 U	1.8 U	1.8 U
2-Chloronaphthalene	ug/kg	190 U	190 U	190 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	180 U
3,3`-Dichlorobenzidine	ug/kg	380 U	380 U	380 U	390 U	340 U	360 U	360 U	360 U	340 U	360 U	360 U
Benzidine	ug/kg	3800 U	3800 U	3800 U	3900 U	3400 U	3600 U	3600 U	3600 U	3400 U	3600 U	3600 U
2-Methylphenol	ug/kg	190 U	190 U	190 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	180 U
2-Chlorophenol	ug/kg	190 U	190 U	190 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	180 U
2,4,5-Trichlorophenol	ug/kg	190 U	190 U	190 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	180 U
3-Nitroaniline	ug/kg	190 U	190 U	190 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	180 U
Benzyl Alcohol	ug/kg	570 U	570 U	570 U	580 U	510 U	540 U	540 U	540 U	500 U	540 U	540 U
2,6-Dinitrotoluene	ug/kg	190 U	190 U	190 U	190 U	170 U	180 U	180 U	180 U	170 U	180 U	180 U

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

Sample Name		SL-005-SA5DS-SB-1.0-2.0	SL-010-SA5DS-SB-2.0-3.0	SL-019-SA5DS-SB-2.0-3.0
Sample Date		11/09/2011	11/08/2011	11/08/2011
SDG		DE283	DE282	DE282
Start Depth		1	2	2
End Depth		2	3	3
Chemical Name	Unit			
GRO (C5-C12)	mg/kg	1.2 U	2.2 U	1.2 U
EFH (C12-C14)	mg/kg	1.3 U	1.3 U	1.3 U
EFH (C15-C20)	mg/kg	1.3 U	1.3 U	1.3 U
EFH (C21-C30)	mg/kg	3.3	1.3 U	1.2 J Z
EFH (C30-C40)	mg/kg	8.5	1.6	5
EFH (C8-C11)	mg/kg	1.3 U	1.3 U	1.3 U

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R - Result is rejected