Appendix A
Analytical Results Tables
(On CD)

Appendix A1
Analytical Method, CAS Number and Chemical Name
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Analytical Method	CAS Number	Chemical Name	Alternative Chemical Name
300	14797-55-8	Nitrate [as N]	
300	14797-55-8	Nitrate	
300	16984-48-8	Fluoride	
9012B	57-12-5	Cyanide	
6010B	7429-90-5	Aluminum	
6010B	7439-89-6	Iron	
6020	7439-92-1	Lead	
6010B	7439-93-2	Lithium	
6010B	7439-95-4	Magnesium	
6010B	7439-96-5	Manganese	
7471A	7439-97-6	Mercury	
6020	7439-98-7	Molybdenum	
6020	7440-02-0	Nickel	
6010B	7440-09-7	Potassium	
6020	7440-22-4	Silver	
6010B	7440-23-5	Sodium	
6010B	7440-24-6	Strontium	
6020	7440-28-0	Thallium	
6010B	7440-31-5	Tin	
6010B	7440-32-6	Titanium	
6020	7440-36-0	Antimony	
6020	7440-38-2	Arsenic	
6020	7440-41-7	Beryllium	
6020	7440-39-3	Barium	
6010B	7440-42-8	Boron	
6020	7440-43-9	Cadmium	
6020	7440-47-3	Chromium	
6020	7440-48-4	Cobalt	
6020	7440-50-8	Copper	
6020	7440-62-2	Vanadium	
6020	7440-66-6	Zinc	
6010B	7440-67-7	Zirconium	
6010B	7440-70-2	Calcium	
6010B	7723-14-0	Phosphorus	
6020	7782-49-2	Selenium	
7199	18540-29-9	Chromium (Hexavalent Compounds)	Chromium VI
314	14797-73-0	Perchlorate	
6850	14797-73-0	Perchlorate	
160.3M	MOIST	Percent Moisture	
9045M	pH	pH	
8315M	302-01-2	Hydrazine	
8315M	60-34-4	Methylhydrazine	
8315M	57-14-7	1,1-Dimethylhydrazine	
8015B	64-17-5	Ethanol	
8015B	67-56-1	Methanol	
8015B	67-63-0	2-Propanol	
8015M	107-21-1	Ethylene Glycol	
8015M	111-46-6	Diethylene Glycol	
8015M	57-55-6	Propylene glycol	

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Analytical Method	CAS Number	Chemical Name	Alternative Chemical Name
8015B	84-15-1	o-Terphenyl	
8015B	92-06-8	m-Terphenyl	
8015B	92-94-4	p-terphenyl	
8315A	50-00-0	Formaldehyde	
8330A	606-20-2	2,6-Dinitrotoluene	
8330A	118-96-7	2,4,6-Trinitrotoluene	
8330A	121-82-4	1,3,5-Trinitroperhydro-1,3,5-triazine	RDX
8330A	19406-51-0	4-Amino-2,6-Dinitrotoluene	
8330A	2691-41-0	Octahydro-1,3,5,7-Tetranitro-1,3,5,7-Tetrazocine	HMX
8330A	35572-78-2	2-Amino-4,6-Dinitrotoluene	
8330A	479-45-8	2,4,6-Trinitrophenylmethylnitramin	Tetryl
8330A	55-63-0	Nitroglycerin	
8330A	59229-75-3	2,6-Diamino-4-nitrotoluene	
8330A	6629-29-4	2,4-Diamino-6-nitrotoluene	
8330A	78-11-5	Pentaerythritol Tetranitrate	
8330A	88-72-2	2-Nitrotoluene	
8330A	99-08-1	3-Nitrotoluene	
8330A	99-35-4	1,3,5-Trinitrobenzene	
8330A	99-99-0	4-Nitrotoluene	
8330A	121-14-2	2,4-Dinitrotoluene	
8330A	98-95-3	Nitrobenzene	
8330A	99-65-0	m-Dinitrobenzene	
8151A	120-36-5	Dichlorprop	
8151A	1918-00-9	Dicamba	
8151A	75-99-0	2,2-Dichlor-Propionic Acid	
8151A	88-85-7	Dinitrobutyl Phenol	
8151A	93-65-2	Methylchlorophenoxypropionic acid	MCPP
8151A	93-72-1	2,4,5-Trichlorophenoxyacetic acid	Silvex (2,4,5-TP)
8151A	93-76-5	2,4,5-Trichlorophenoxyacetic Acid	2,4,5-T
8151A	94-74-6	2-Methyl-4-Chlorophenoxyacetic Acid	MCPA
8151A	94-75-7	Dichlorophenoxyacetic Acid	2,4-D
8151A	94-82-6	4-(2,4-dichlorophenoxy)butanoic acid	2,4 DB
8081A	8001-35-2	Chlorinated Camphene	Toxaphene
8081A	1024-57-3	Heptachlor Epoxide	
8081A	1031-07-8	Endosulfan Sulfate	
8081A	2385-85-5	Mirex	
8081A	309-00-2	Aldrin	
8081A	319-84-6	Alpha-BHC	
8081A	319-85-7	Beta-BHC	
8081A	319-86-8	Delta-BHC	
8081A	33213-65-9	Endosulfan II	
8081A	50-29-3	4,4'-DDT	
8081A	53494-70-5	Endrin Ketone	
8081A	57-74-9	Chlordane	
8081A	58-89-9	Gamma-BHC (Lindane)	
8081A	60-57-1	Dieldrin	
8081A	72-20-8	Endrin	
8081A	72-43-5	Methoxychlor	
8081A	72-54-8	4,4'-DDD	

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Analytical Method	CAS Number	Chemical Name	Alternative Chemical Name
8081A	72-55-9	4,4'-DDE	
8081A	7421-93-4	Endrin Aldehyde	
8081A	76-44-8	Heptachlor	
8081A	959-98-8	Endosulfan I	
1613B	1746-01-6	2,3,7,8-Tetrachlorodibenzo-p-dioxin	2,3,7,8-TCDD
1613B	19408-74-3	1,2,3,7,8,9-Hexachlorodibenzo-p-Dioxin	1,2,3,7,8,9-HxCDD
1613B	3268-87-9	1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin	OCDD
1613B	35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzo-p-Dioxin	1,2,3,4,6,7,8-HpCDD
1613B	39001-02-0	1,2,3,4,6,7,8,9-Octachlorodibenzofuran	OCDF
1613B	39227-28-6	1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin	1,2,3,4,7,8-HxCDD
1613B	40321-76-4	1,2,3,7,8-Pentachlorodibenzo-p-Dioxin	1,2,3,7,8-PeCDD
1613B	51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	2,3,7,8-TCDF
1613B	55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	1,2,3,4,7,8,9-HpCDF
1613B	57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	2,3,4,7,8-PeCDF
1613B	57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	1,2,3,7,8-PeCDF
1613B	57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	1,2,3,6,7,8-HxCDF
1613B	57653-85-7	1,2,3,6,7,8-Hexachlorodibenzo-p-Dioxin	1,2,3,6,7,8-HxCDD
1613B	60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	2,3,4,6,7,8-HxCDF
1613B	67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	1,2,3,4,6,7,8-HpCDF
1613B	70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	1,2,3,4,7,8-HxCDF
1613B	72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	1,2,3,7,8,9-HxCDF
8082	11096-82-5	Aroclor 1260	
8082	11097-69-1	Aroclor 1254	
8082	11100-14-4	Aroclor 1268	
8082	11104-28-2	Aroclor 1221	
8082	11126-42-4	Aroclor 5460	
8082	11141-16-5	Aroclor 1232	
8082	12642-23-8	Aroclor 5442	
8082	12672-29-6	Aroclor 1248	
8082	12674-11-2	Aroclor 1016	
8082	37324-23-5	Aroclor 1262	
8082	53469-21-9	Aroclor 1242	
8082	63496-31-1	Aroclor 5432	
1625C	62-75-9	N-Nitrosodimethylamine	
8270C SIM	62-75-9	N-Nitrosodimethylamine	
8270C	121-14-2	2,4-Dinitrotoluene	
8270C	98-95-3	Nitrobenzene	
8270C	106-46-7	1,4-Dichlorobenzene	
8270C	120-82-1	1,2,4-Trichlorobenzene	
8270C	541-73-1	1,3-Dichlorobenzene	
8270C	87-68-3	Hexachlorobutadiene	
8270C	95-50-1	1,2-Dichlorobenzene	
8270C	100-01-6	4-Nitroaniline	
8270C	100-02-7	4-Nitrophenol	
8270C	101-55-3	4-Bromophenyl Phenyl Ether	
8270C	105-67-9	2,4-Dimethylphenol	
8270C	106-44-5	4-Methylphenol	
8270C	106-47-8	4-Chloroaniline	
8270C	108-68-9	3,5-Dimethylphenol	

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Analytical Method	CAS Number	Chemical Name	Alternative Chemical Name
8270C	108-95-2	Phenol	
8270C	111-44-4	Bis(2-Chloroethyl) ether	
8270C	111-91-1	Bis(2-Chloroethoxy) methane	
8270C	117-81-7	Bis(2-Ethylhexyl) phthalate	
8270C SIM	117-81-7	Bis(2-Ethylhexyl) phthalate	
8270C	117-84-0	Di-N-Octyl Phthalate	
8270C SIM	117-84-0	Di-N-Octyl Phthalate	
8270C	118-74-1	Hexachlorobenzene	
8270C SIM	120-12-7	Anthracene	
8270C	120-83-2	2,4-Dichlorophenol	
8270C	122-66-7	1,2-Diphenylhydrazine	
8270C	129-00-0	Pyrene	
8270C SIM	129-00-0	Pyrene	
8270C	131-11-3	Dimethylphthalate	
8270C SIM	131-11-3	Dimethylphthalate	
8270C	132-64-9	Dibenzofuran	
8270C	191-24-2	Benzo(g,h,i)perylene	
8270C SIM	191-24-2	Benzo(g,h,i)perylene	
8270C	193-39-5	Indeno(1,2,3-Cd)Pyrene	
8270C SIM	193-39-5	Indeno(1,2,3-Cd)Pyrene	
8270C	205-99-2	Benzo(b)fluoranthene	
8270C SIM	205-99-2	Benzo(b)fluoranthene	
8270C	206-44-0	Fluoranthene	
8270C SIM	206-44-0	Fluoranthene	
8270C	207-08-9	Benzo(k)fluoranthene	
8270C SIM	207-08-9	Benzo(k)fluoranthene	
8270C SIM	208-96-8	Acenaphthylene	
8270C	218-01-9	Chrysene	
8270C SIM	218-01-9	Chrysene	
8270C	39638-32-9	bis(2-Chloroisopropyl) ether	
8270C	50-32-8	Benzo(a)pyrene	
8270C SIM	50-32-8	Benzo(a)pyrene	
8270C	51-28-5	2,4-Dinitrophenol	
8270C	534-52-1	4,6-Dinitro-2-Methylphenol	
8270C	53-70-3	Dibenzo(a,h)anthracene	
8270C SIM	53-70-3	Dibenzo(a,h)anthracene	
8270C	56-55-3	Benzo(a)anthracene	
8270C SIM	56-55-3	Benzo(a)anthracene	
8270C	59-50-7	4-Chloro-3-Methylphenol	
8270C	621-64-7	N-Nitroso-Di-N-Propylamine	
8270C	62-53-3	Aniline	
8270C	65-85-0	Benzoic Acid	
8270C	67-72-1	Hexachloroethane	
8270C	7005-72-3	4-Chlorophenyl Phenylether	
8270C	77-47-4	Hexachlorocyclopentadiene	
8270C	78-59-1	Isophorone	
8270C SIM	83-32-9	Acenaphthene	
8270C	84-66-2	Diethylphthalate	
8270C SIM	84-66-2	Diethylphthalate	

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Analytical Method	CAS Number	Chemical Name	Alternative Chemical Name
8270C	84-74-2	Di-N-Butylphthalate	
8270C SIM	84-74-2	Di-N-Butylphthalate	
8270C	85-01-8	Phenanthrene	
8270C SIM	85-01-8	Phenanthrene	
8270C	85-68-7	Butylbenzylphthalate	
8270C SIM	85-68-7	Butylbenzylphthalate	
8270C	86-30-6	N-Nitrosodiphenylamine	
8270C SIM	86-73-7	Fluorene	
8270C	86-74-8	Carbazole	
8270C	87-86-5	Pentachlorophenol	
8270C	88-06-2	2,4,6-Trichlorophenol	
8270C	88-74-4	2-Nitroaniline	
8270C	88-75-5	2-Nitrophenol	
8270C	90-12-0	1-Methylnaphthalene	
8270C SIM	90-12-0	1-Methylnaphthalene	
8270C	91-20-3	Naphthalene	
8270C SIM	91-20-3	Naphthalene	
8270C	91-57-6	2-Methylnaphthalene	
8270C SIM	91-57-6	2-Methylnaphthalene	
8270C	91-58-7	2-Chloronaphthalene	
8270C	91-94-1	3,3`-Dichlorobenzidine	
8270C	92-87-5	Benzidine	
8270C	95-48-7	2-Methylphenol	
8270C	95-57-8	2-Chlorophenol	
8270C	95-95-4	2,4,5-Trichlorophenol	
8270C	99-09-2	3-Nitroaniline	
8270C	100-51-6	Benzyl Alcohol	
8270C	606-20-2	2,6-Dinitrotoluene	
8015M	GROC5C12	Gasoline Range Organices (C5-C12)	GRO (C5-C12)
8015M	PHCC15C20	Extractable Fuel Hydrocarbons (C15-C20)	EFH (C15-C20)
8015M	PHCC21C30	Extractable Fuel Hydrocarbons (C21-C30)	EFH (C21-C30)
8015M	PHCC30C40	Extractable Fuel Hydrocarbons (C30-C40)	EFH (C30-C40)
8015M	PHCC8C11	Extractable Fuel Hydrocarbons (C8-C11)	EFH (C8-C11)
8260B	106-46-7	1,4-Dichlorobenzene	
8260B	120-82-1	1,2,4-Trichlorobenzene	
8260B	541-73-1	1,3-Dichlorobenzene	
8260B	87-68-3	Hexachlorobutadiene	
8260B	95-50-1	1,2-Dichlorobenzene	
8260B	99-87-6	Isopropyltoluene	
8260B	100-41-4	Ethylbenzene	
8260B	100-42-5	Styrene	
8260B	10061-01-5	cis-1,3-Dichloropropene	
8260B	10061-02-6	trans-1,3-Dichloropropene	
8260B	103-65-1	N-Propylbenzene	
8260B	104-51-8	N-Butylbenzene	
8260B	106-43-4	4-Chlorotoluene	
8260B	106-93-4	1,2-Dibromoethane	
8260B	107-06-2	1,2-Dichloroethane	
8260B	108-10-1	4-Methyl-2-Pentanone	

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Analytical Method	CAS Number	Chemical Name	Alternative Chemical Name
8260B	108-67-8	1,3,5-Trimethylbenzene	
8260B	108-86-1	Bromobenzene	
8260B	108-88-3	Toluene	
8260B	108-90-7	Chlorobenzene	
8260B	110-75-8	2-Chloroethyl Vinyl Ether	
8260B SIM	123-91-1	1,4-Dioxane	
8260B	124-48-1	Dibromochloromethane	
8260B	127-18-4	Tetrachloroethene	
8260B	135-98-8	sec-Butylbenzene	
8260B	142-28-9	1,3-Dichloropropane	
8260B	156-59-2	cis-1,2-Dichloroethene	
8260B	156-60-5	trans-1,2-Dichloroethene	
8260B	1634-04-4	Methyl tert-Butyl Ether	
8260B	179601-23-1	m,p-Xylene	
8260B	56-23-5	Carbon tetrachloride	
8260B	563-58-6	1,1-Dichloropropene	
8260B	591-78-6	2-Hexanone	
8260B	594-20-7	2,2-Dichloropropane	
8260B	630-20-6	1,1,1,2-Tetrachloroethane	
8260B	67-64-1	Acetone	
8260B	67-66-3	Chloroform	
8260B	71-43-2	Benzene	
8260B	71-55-6	1,1,1-Trichloroethane	
8260B	74-83-9	Bromomethane	
8260B	74-87-3	Chloromethane	
8260B	74-95-3	Dibromomethane	
8260B	74-97-5	Bromochloromethane	
8260B	75-00-3	Chloroethane	
8260B	75-01-4	Vinyl Chloride	
8260B	75-09-2	Methylene chloride	
8260B	75-25-2	Bromoform	
8260B	75-27-4	Bromodichloromethane	
8260B	75-34-3	1,1-Dichloroethane	
8260B	75-35-4	1,1-Dichloroethene	
8260B	75-69-4	Trichlorofluoromethane	
8260B	75-71-8	Dichlorodifluoromethane	
8260B	75-88-7	1,1,1-Trichloro-2,2,2-trifluoroethane	Freon 113a
8260B	76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	Freon 113
8260B	78-87-5	1,2-Dichloropropane	
8260B	78-93-3	2-Butanone	
8260B	79-00-5	1,1,2-Trichloroethane	
8260B	79-01-6	Trichloroethene	
8260B	79-34-5	1,1,2,2-Tetrachloroethane	
8260B	79-38-9	Chlorotrifluoroethene	
8260B	87-61-6	1,2,3-Trichlorobenzene	
8260B	95-47-6	o-Xylene	
8260B	95-49-8	2-Chlorotoluene	
8260B	95-63-6	1,2,4-Trimethylbenzene	
8260B	96-12-8	1,2-Dibromo-3-chloropropane	

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Analytical Method	CAS Number	Chemical Name	Alternative Chemical Name
8260B	96-18-4	1,2,3-Trichloropropane	
8260B	98-06-6	tert-Butylbenzene	
8260B	98-82-8	Isopropylbenzene	

Appendix A2
Metals and Inorganics - Validated Data
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Sample Name		SL-001-SA5C-SS-0.0-0.5	SL-001-SA5C-SB-4.0-5.0	SL-001-SA5C-SB-9.0-10.0	SL-002-SA5C-SS-0.0-0.5	SL-002-SA5C-SB-4.0-5.0	SL-002-SA5C-SB-9.0-10.0	SL-003-SA5C-SB-4.0-5.0	SL-004-SA5C-SS-0.0-0.5	SL-004-SA5C-SB-4.0-5.0	SL-004-SA5C-SB-9.0-10.0	SL-005-SA5C-SB-4.0-5.0	SL-005-SA5C-SB-9.0-10.0	SL-006-SA5C-SB-4.0-5.0	SL-006-SA5C-SB-9.0-10.0	SL-007-SA5C-SB-4.0-5.0	SL-007-SA5C-SB-9.0-10.0
Sample Date		10/26/2010	12/13/2010	12/13/2010	10/26/2010	12/14/2010	12/14/2010	12/13/2010	10/26/2010	12/14/2010	12/14/2010	12/10/2010	12/10/2010	12/13/2010	12/13/2010	12/13/2010	12/13/2010
SDG		DE004	DE037	DE037	DE004	DE039	DE039	DE037	DE004	DE039	DE039	DE035	DE035	DE037	DE037	DE037	DE037
Start Depth		0	4	9	0	4	9	4	0	4	9	4	9	4	9	4	9
End Depth		0.5	5	10	0.5	5	10	5	0.5	5	10	5	10	5	10	5	10
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Nitrate	mg/kg	--	1.2 J	1.8 U	--	1.8	1.1 J	3.6	--	1.6 J	1.8 U	6.7	1.7 U	13.0 J	1.9 J	8.0 J	1.2 J
Fluoride	mg/kg	1.7 J	3.4	4.7	1.7 J	1.1 U	2.7	2.5	3.1 J	4.2	1.6	2.6 J	6.7 J	3.3	4.7	4.8	3.9
Cyanide	mg/kg	--	0.53 U	0.61 U	--	0.53 U	0.63 U	0.53 U	--	0.58 U	0.58 U	0.57 UJ	0.54 UJ	0.55 U	0.54 U	0.55 U	0.55 U
Aluminum	mg/kg	12000	12100	30800	22700	12500	32300	13600	21500	29700	33600	26300 J	12700 J	23700	15200	13200	16600
Iron	mg/kg	15200	18400	34500	29300	19800	35300	20400	28000	30600	34100	30200	19000	29600	18500	20800	19900
Lead	mg/kg	3.86 J	5.49 J	13.0 J	8.26 J	4.71 J	13.1 J	6.10 J	6.78 J	12.5 J	14.0 J	12.5 J	10.1 J	9.45 J	13.0 J	6.51 J	7.95 J
Lithium	mg/kg	10.9	20.9	25.3	28.6	22.8 J	27.6 J	19.3	26.9	28.2 J	28.1 J	27.9	19.2	29.0	17.9	19.4	19.5
Magnesium	mg/kg	3440	3670	7280	7560	3970	8070	3910	6910	6590	8130	7580	3780	7030	3420	4250	3980
Manganese	mg/kg	214 J	255	398	371 J	315	429	303	356 J	370	402	354 J	229 J	387	233	262	251
Mercury	mg/kg	0.0116 J	0.105 U	0.0073 J	0.108 U	0.106 U	0.0046 J	0.0131 J	0.109 U	0.0138 J	0.0068 J	0.108 U	0.106 U	0.112 U	0.104 U	0.108 U	0.0043 J
Molybdenum	mg/kg	1.18	0.760 J	1.12 J	0.448	0.470 J	0.624 J	0.780 J	0.515	0.470 J	0.801 J	0.550 J	1.20 J	0.517 J	0.790 J	0.684 J	1.16 J
Nickel	mg/kg	9.96	10.5	28.4	15.1	8.46 J	19.9 J	12.8	13.4	17.8 J	20.3 J	21.0 J	12.6 J	17.0	26.9	12.0	14.5
Potassium	mg/kg	2090 J	2360 J	4570 J	5360 J	2520 J	3910 J	2660 J	4490 J	3660 J	4790 J	4400	2550	3630 J	2590 J	2790 J	2560 J
Silver	mg/kg	0.0206 J	0.0190 J	0.0765 J	0.0270 J	0.0148 J	0.0442 J	0.0366 J	0.0266 J	0.0893 J	0.0645 J	0.0434 J	0.0316 J	0.0341 J	0.0704 J	0.0301 J	0.0588 J
Sodium	mg/kg	136	105 J	254	108 J	95.4 J	264	181	127	182	256	230	256	198	148	201	175
Strontium	mg/kg	42.5	10.9	44.3	70.3	12.3	45.5	18.7	47.9	34.0	51.3	110	23.7	32.2	19.8	25.0	22.7
Thallium	mg/kg	0.154	0.418	0.474	0.332	0.356 J	0.381 J	0.350	0.282	0.422 J	0.439 J	0.468 J	0.366 J	0.361	0.497	0.380	0.379
Tin	mg/kg	10.7 U	10.6 U	11.9 U	11.1 U	10.6 U	11.5 U	10.8 U	10.9 U	11.5 U	11.9 U	11.2 U	10.7 U	10.9 U	10.6 U	10.7 U	10.8 U
Titanium	mg/kg	814	1050	1470	1360	1220	1550	1150	1300	1580	1610	1430 J	1100 J	1230	1100	1230	1210
Antimony	mg/kg	0.379 J	0.0994 J	0.559 J	0.824 J	0.211 U	0.340	0.174 J	0.149 J	0.318	0.366	0.267 UJ	0.216 UJ	0.272 J	0.296 J	0.156 J	0.132 J
Arsenic	mg/kg	3.53 J	7.96 J	12.2 J	5.14 J	5.59 J	8.72 J	7.50 J	5.14 J	8.70 J	8.20 J	8.78 J	6.78 J	6.87 J	11.4 J	6.80 J	9.29 J
Beryllium	mg/kg	0.308	0.715	1.42	0.597	0.531 J	0.902 J	0.612	0.545	0.928 J	0.889 J	0.799 J	0.576 J	0.957	1.30	0.657	0.814
Barium	mg/kg	74.4	89.2 J	203 J	101	63.6 J	160 J	119 J	91.4	160 J	183 J	175 J	127 J	128 J	106 J	138 J	132 J
Boron	mg/kg	2.87 J	2.87 J	7.30	15.3	2.97 J	5.03 J	4.64 J	13.8	4.55 J	8.24	11.3	6.30	7.11	4.83 J	4.96 J	5.74
Cadmium	mg/kg	0.412	0.0626 J	0.212 J	0.218	0.106 UJ	0.454 J	0.0875 J	0.186	0.237 UJ	0.454 J	0.375 J	0.324 J	0.108 J	0.248 J	0.0887 J	0.128 J
Chromium	mg/kg	21.5	18.8	55.4	30.8	14.1 J	41.1 J	21.3	28.6	39.0 J	43.0 J	37.4 J	22.4 J	38.2	50.1	24.3	28.0
Cobalt	mg/kg	4.55	5.88	13.7	8.20	5.63 J	9.79 J	7.07	7.21	9.82 J	10.0 J	10.8 J	6.99 J	9.01	11.1	7.35	7.08
Copper	mg/kg	9.02	6.80	21.8	12.2	5.77 J	16.7 J	10.7	10.6	15.8 J	17.9 J	16.9 J	11.6 J	12.0	19.7	11.4	10.8
Vanadium	mg/kg	36.1 J	38.1	101	59.1 J	29.5 J	76.0 J	45.3	52.9 J	71.3 J	79.2 J	77.0 J	46.4 J	76.5	93.3	57.3	52.7
Zinc	mg/kg	121 J	79.0 J	115 J	58.4 J	59.4 J	80.0 J	89.1 J	53.2 J	70.9 J	96.1 J	95.8 J	129 J	81.2 J	114 J	94.7 J	90.9 J
Zirconium	mg/kg	3.85 J	5.31 U	4.76 J	6.52	5.28 U	5.23 J	1.44 J	5.75	3.75 J	4.89 J	2.74 J	1.06 J	3.82 J	1.68 J	1.20 J	2.75 J
Calcium	mg/kg	7010 J	2820	19000	34200 J	3200	24300	3440	19400 J	16000	26200	54500 J	3520 J	7330	2620	5190	3910
Phosphorus	mg/kg	461 J	306 J	413 J	706 J	330 J	421 J	349 J	586 J	311 J	468 J	465 J	395 J	419 J	318 J	430 J	310 J
Selenium	mg/kg	0.146 J	0.153 J	0.190 J	0.217 J	0.101 J	0.186 J	0.177 J	0.185 J	0.0746 J	0.252 J	0.284 J	0.160 J	0.299 J	0.241 J	0.141 J	0.185 J
Chromium VI	mg/kg	0.32 J	0.79 J	0.37 J	0.40 J	0.32 J	0.51 J	0.82 J	0.69 J	1.2 U	1.8	1.2 U	1.1 U	0.26 J	0.26 J	1.1 U	1.1 U

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

Appendix A2
Metals and Inorganics - Validated Data
HSA-5C

Sample Name		SL-001-SA5C-SS-0.0-0.5	SL-001-SA5C-SB-4.0-5.0	SL-001-SA5C-SB-9.0-10.0	SL-002-SA5C-SS-0.0-0.5	SL-002-SA5C-SB-4.0-5.0	SL-002-SA5C-SB-9.0-10.0	SL-003-SA5C-SB-4.0-5.0	SL-004-SA5C-SS-0.0-0.5	SL-004-SA5C-SB-4.0-5.0	SL-004-SA5C-SB-9.0-10.0	SL-005-SA5C-SB-4.0-5.0	SL-005-SA5C-SB-9.0-10.0	SL-006-SA5C-SB-4.0-5.0	SL-006-SA5C-SB-9.0-10.0	SL-007-SA5C-SB-4.0-5.0	SL-007-SA5C-SB-9.0-10.0
Sample Date		10/26/2010	12/13/2010	12/13/2010	10/26/2010	12/14/2010	12/14/2010	12/13/2010	10/26/2010	12/14/2010	12/14/2010	12/10/2010	12/10/2010	12/13/2010	12/13/2010	12/13/2010	12/13/2010
SDG		DE004	DE037	DE037	DE004	DE039	DE039	DE037	DE004	DE039	DE039	DE035	DE035	DE037	DE037	DE037	DE037
Start Depth		0	4	9	0	4	9	4	0	4	9	4	9	4	9	4	9
End Depth		0.5	5	10	0.5	5	10	5	0.5	5	10	5	10	5	10	5	10
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Perchlorate (314.0)	ug/kg	32.7 U	32.2 U	36.1 U	34.1 U	32.0 U	36.0 U	32.3 U	17.2 J	35.8 U	36.1 U	34.6 U	33.0 U	33.9 U	32.7 U	32.6 U	33.0 U
Perchlorate (6850)	ug/kg	--	--	--	--	--	--	5.4 U	--	--	--	--	--	--	--	--	--
Percent Moisture	%	8.2	6.7 U	17.0 J	11.9	6.2	16.7	7.2 J	11.0	16.2	16.8	13.2	9.1	11.4 U	8.2 J	8.1 J	9.2 U
pH	pH unit	8.42	8.26	8.46	8.09	8.45	7.77	8.70	8.31	8.25	8.15	8.22	8.68	8.16	7.64	8.48	8.44
Hydrazine	ng/g	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylhydrazine	ng/g	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dimethylhydrazine	ng/g	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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

Appendix A2
Metals and Inorganics - Validated Data
HSA-5C

Sample Name		SL-008-SA5C-SS-0.0-0.5	SL-008-SA5C-SB-4.0-5.0	SL-008-SA5C-SB-8.0-9.0	SL-009-SA5C-SB-4.0-5.0	SL-009-SA5C-SB-9.0-10.0	SL-010-SA5C-SB-4.0-5.0	SL-010-SA5C-SB-9.0-10.0	SL-011-SA5C-SB-4.0-5.0	SL-011-SA5C-SB-9.0-10.0	SL-012-SA5C-SS-0.0-0.5	SL-012-SA5C-SB-4.0-5.0	SL-012-SA5C-SB-9.0-10.0	SL-013-SA5C-SB-4.0-5.0	SL-013-SA5C-SB-9.0-10.0	SL-014-SA5C-SB-4.0-5.0	SL-014-SA5C-SB-9.0-10.0
Sample Date		10/26/2010	12/10/2010	12/10/2010	12/10/2010	12/10/2010	12/10/2010	12/10/2010	12/10/2010	12/10/2010	10/26/2010	12/09/2010	12/09/2010	12/09/2010	12/09/2010	12/07/2010	12/07/2010
SDG		DE004	DE035	DE035	DE035	DE035	DE035	DE035	DE035	DE035	DE004	DE033	DE033	DE033	DE033	DE030	DE030
Start Depth		0	4	8	4	9	4	9	4	9	0	4	9	4	9	4	9
End Depth		0.5	5	9	5	10	5	10	5	10	0.5	5	10	5	10	5	10
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Nitrate	mg/kg	--	--	--	2.7	1.7 U	4.8 J	1.6 UJ	1.7 UJ	1.1 J	--	2.4	1.5 J	3.2	1.2 J	3.2	1.0 J
Fluoride	mg/kg	2.0	6.3	3.8	5.4 J	5.3 J	6.1	4.7	5.5	3.5	1.8 J	7.0 J	5.1 J	4.5 J	3.6 J	2.4	2.9
Cyanide	mg/kg	--	--	--	0.51 UJ	0.55 UJ	0.55 UJ	0.53 UJ	0.54 UJ	0.53 UJ	--	0.55 U	0.58 U	0.55 U	0.52 U	0.54 U	0.55 U
Aluminum	mg/kg	25100	29800 J	22600 J	11400 J	15200 J	18200 J	15700 J	14500 J	11400 J	25600	14800	12000	13700	10000	10800	14300
Iron	mg/kg	29700	34500	18000	20200	20600	24000	21500	19200	18700	29900	21300	17400	17700	14300	19400	17700
Lead	mg/kg	8.96 J	11.6 J	6.69 J	7.98 J	5.85 J	9.92 J	6.22 J	9.04 J	5.62 J	8.30 J	8.70 J	5.41 J	8.53 J	6.65 J	3.67 J	8.17 J
Lithium	mg/kg	29.6	26.4	24.3	18.5	20.1	20.8	21.9	18.6	19.0	31.4	21.7	15.0	17.9	13.1	16.7	20.4
Magnesium	mg/kg	7930	7610	3430	4170	3760	4620	4280	3810	3730	8060	4690	4030	3530	2950	4730	3600
Manganese	mg/kg	402 J	350 J	165 J	273 J	282 J	310 J	259 J	253 J	251 J	399 J	250	207	243	188	230	304
Mercury	mg/kg	0.115 U	0.112 U	0.0165 J	0.105 U	0.107 U	0.113 U	0.105 U	0.108 U	0.101 U	0.110 U	0.110 U	0.121 U	0.0048 J	0.106 U	0.0239 J	0.0042 J
Molybdenum	mg/kg	0.373	0.586 J	1.05 J	0.548 J	0.628 J	0.952 J	1.42 J	0.860 J	0.520 J	0.309	0.393 J	3.87 J	0.824 J	0.429 J	0.298	0.436
Nickel	mg/kg	16.8	14.9 J	7.96 J	12.7 J	9.46 J	16.0 J	11.1 J	13.8 J	9.10 J	15.3	12.8 J	19.3 J	12.8 J	10.9 J	6.48 J	12.7 J
Potassium	mg/kg	5790 J	3640	1610	2630	2510	2870	2720	2600	2630	5930 J	3040 J	2440 J	2250 J	1940 J	3100 J	2510 J
Silver	mg/kg	0.0312 J	0.0421 J	0.168 J	0.0214 J	0.0204 J	0.0461 J	0.0196 J	0.0422 J	0.0214 J	0.0241 J	0.0279 J	0.0168 J	0.0413 J	0.0312 J	0.0163 J	0.0402 J
Sodium	mg/kg	122	350	89.6 J	189	206	253	182	215	173	133	246	166	157	117	175	132
Strontium	mg/kg	97.2	41.6	17.0	20.4	21.4	26.7	26.1	19.3	18.1	83.4	22.5	36.2	16.4	13.9	30.6	16.4
Thallium	mg/kg	0.321	0.484 J	0.326 J	0.354 J	0.286 J	0.417 J	0.268 J	0.424 J	0.288 J	0.343	0.417 J	0.254 J	0.350 J	0.333 J	0.203	0.348
Tin	mg/kg	11.3 U	11.4 U	10.8 U	10.5 U	10.9 U	11.2 U	10.8 U	10.8 U	10.4 U	11.1 U	10.6 U	12.0 U	10.5 U	10.4 U	10.5 U	10.9 U
Titanium	mg/kg	1350	1710 J	1210 J	1290 J	1230 J	1330 J	1220 J	1170 J	1120 J	1470	1340	942	1090	1000	1250	1070
Antimony	mg/kg	0.482 J	0.237 UJ	0.213 UJ	0.212 UJ	0.217 UJ	0.224 UJ	0.217 UJ	0.219 UJ	0.212 UJ	0.206 J	0.212 UJ	0.244 UJ	0.217 UJ	0.219 R	0.212 UJ	0.0894 J
Arsenic	mg/kg	5.91 J	8.76 J	8.38 J	6.23 J	5.62 J	7.89 J	5.61 J	7.91 J	4.44 J	5.63 J	5.30 J	6.79 J	8.17 J	6.13 J	2.76 J	5.14 J
Beryllium	mg/kg	0.630	0.870 J	0.602 J	0.618 J	0.522 J	0.815 J	0.519 J	0.804 J	0.465 J	0.620	0.626 J	0.442 J	0.707 J	0.567 J	0.310 J	0.676 J
Barium	mg/kg	107	158 J	63.5 J	120 J	90.7 J	139 J	91.7 J	129 J	104 J	102	119 J	99.4 J	118 J	109 J	93.7 J	104 J
Boron	mg/kg	17.9	8.96	5.01 J	6.42	7.11	8.39	8.15	7.01	6.02	17.0	2.63 J	3.90 J	2.86 J	2.48 J	3.02 J	4.70 J
Cadmium	mg/kg	0.231	0.247 J	0.0604 J	0.137 J	0.167 J	0.257 J	0.166 J	0.176 J	0.125 J	0.223	0.104 J	0.195 J	0.170 J	0.120 J	0.0747 J	0.258
Chromium	mg/kg	32.0	29.9 J	16.6 J	26.0 J	15.6 J	27.2 J	19.7 J	23.9 J	14.7 J	31.0	25.2 J	37.3 J	22.3 J	18.6 J	10.7 J	23.0 J
Cobalt	mg/kg	9.12	7.40 J	3.54 J	8.24 J	5.86 J	7.94 J	5.67 J	7.33 J	5.78 J	8.36	8.00 J	7.59 J	7.27 J	6.05 J	5.78 J	6.44 J
Copper	mg/kg	13.7	10.6 J	5.42 J	11.1 J	7.10 J	11.8 J	7.73 J	10.5 J	8.60 J	12.6	12.5 J	10.3 J	10.4 J	9.51 J	12.2 J	10.8 J
Vanadium	mg/kg	63.0 J	60.3 J	35.2 J	60.7 J	33.6 J	56.8 J	35.1 J	50.2 J	39.0 J	60.2 J	51.7 J	45.5 J	45.0 J	39.2 J	35.5 J	44.8 J
Zinc	mg/kg	60.9 J	99.1 J	53.7 J	85.9 J	61.9 J	87.5 J	65.3 J	83.8 J	70.2 J	57.7 J	80.4 J	55.6 J	71.3 J	61.7 J	53.7 J	62.0 J
Zirconium	mg/kg	5.28 J	3.77 J	5.42 U	1.67 J	1.33 J	1.94 J	2.48 J	0.930 J	5.20 U	3.82 J	1.98 J	4.32 J	1.48 J	0.977 J	5.25 U	0.969 J
Calcium	mg/kg	54600 J	9770 J	1510 J	3550 J	3850 J	6100 J	3780 J	3650 J	3630 J	53500 J	5480 J	5110 J	2910 J	3070 J	5990	3010
Phosphorus	mg/kg	676 J	253 J	181 J	437 J	324 J	338 J	389 J	296 J	376 J	678 J	363	491	287	249	1120 J	275 J
Selenium	mg/kg	0.208 J	0.307 J	0.215 J	0.220 J	0.0957 J	0.178 J	0.160 J	0.213 J	0.132 J	0.229 J	0.215 J	0.0888 J	0.204 J	0.116 J	0.0466 J	0.125 J
Chromium VI	mg/kg	0.39 J	0.31 J	0.50 J	1.1 U	1.1 U	1.1 U	0.34 J	1.5	1.3	0.41 J	1.1	1.2 U	1.1 U	1.1 U	1.1 U	1.1 U

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

Appendix A2
Metals and Inorganics - Validated Data
HSA-5C

Sample Name		SL-008-SA5C-SS-0.0-0.5	SL-008-SA5C-SB-4.0-5.0	SL-008-SA5C-SB-8.0-9.0	SL-009-SA5C-SB-4.0-5.0	SL-009-SA5C-SB-9.0-10.0	SL-010-SA5C-SB-4.0-5.0	SL-010-SA5C-SB-9.0-10.0	SL-011-SA5C-SB-4.0-5.0	SL-011-SA5C-SB-9.0-10.0	SL-012-SA5C-SS-0.0-0.5	SL-012-SA5C-SB-4.0-5.0	SL-012-SA5C-SB-9.0-10.0	SL-013-SA5C-SB-4.0-5.0	SL-013-SA5C-SB-9.0-10.0	SL-014-SA5C-SB-4.0-5.0	SL-014-SA5C-SB-9.0-10.0
Sample Date		10/26/2010	12/10/2010	12/10/2010	12/10/2010	12/10/2010	12/10/2010	12/10/2010	12/10/2010	12/10/2010	10/26/2010	12/09/2010	12/09/2010	12/09/2010	12/09/2010	12/07/2010	12/07/2010
SDG		DE004	DE035	DE035	DE035	DE035	DE035	DE035	DE035	DE035	DE004	DE033	DE033	DE033	DE033	DE030	DE030
Start Depth		0	4	8	4	9	4	9	4	9	0	4	9	4	9	4	9
End Depth		0.5	5	9	5	10	5	10	5	10	0.5	5	10	5	10	5	10
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Perchlorate (314.0)	ug/kg	35.4 U	34.5 U	32.9 U	32.1 U	33.6 U	34.2 U	32.9 U	33.0 U	32.5 U	34.4 U	--	--	--	--	32.8 U	33.0 U
Perchlorate (6850)	ug/kg	5.9 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Percent Moisture	%	15.2	13.1	8.7	6.5	10.6	12.4	8.7	9.1	7.6	12.9	10	18.2	8.8	8.8	8.5	9.0
pH	pH unit	8.15	8.45	6.85	8.20	8.51	8.44	8.52	8.45	8.60	8.34	8.23	7.49	7.70	8.34	8.53	8.26
Hydrazine	ng/g	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylhydrazine	ng/g	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dimethylhydrazine	ng/g	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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

Appendix A2
Metals and Inorganics - Validated Data
HSA-5C

Sample Name		SL-015-SA5C-SB-4.0-5.0	SL-015-SA5C-SB-9.0-10.0	SL-016-SA5C-SB-4.0-5.0	SL-016-SA5C-SB-9.0-10.0	SL-017-SA5C-SB-4.0-5.0	SL-017-SA5C-SB-9.0-10.0	SL-018-SA5C-SS-0.0-0.5	SL-018-SA5C-SB-4.0-5.0	SL-019-SA5C-SB-4.0-5.0	SL-019-SA5C-SB-8.5-9.5	SL-020-SA5C-SS-0.0-0.5	SL-020-SA5C-SB-4.0-5.0	SL-020-SA5C-SB-7.5-8.5	SL-021-SA5C-SB-4.0-5.0	SL-021-SA5C-SB-9.0-10.0	SL-022-SA5C-SB-4.0-5.0
Sample Date		12/08/2010	12/08/2010	12/08/2010	12/08/2010	12/09/2010	12/09/2010	10/26/2010	12/06/2010	12/07/2010	12/07/2010	10/26/2010	12/08/2010	12/08/2010	12/08/2010	12/08/2010	12/09/2010
SDG		DE033	DE033	DE033	DE033	DE034	DE034	DE004	DX013	DE030	DE030	DE004	DE033	DE033	DE033	DE033	DE033
Start Depth		4	9	4	9	4	9	0	4	4	8.5	0	4	7.5	4	9	4
End Depth		5	10	5	10	5	10	0.5	5	5	9.5	0.5	5	8.5	5	10	5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Nitrate	mg/kg	6.2	1.5 J	2.9	1.9	3.6	0.96 J	--	1.4 J	4.6	1.3 J	--	2.4	1.5 J	1.6	1.8	2.1
Fluoride	mg/kg	3.0	3.6	3.6	5.1	1.4	6.2	2.7 J	2.5	2.2	3.9	2.5 J	3.6	4.5	1.7	3.7	2.6 J
Cyanide	mg/kg	0.55 U	0.53 U	0.54 U	0.51 U	0.55 U	0.55 U	--	0.56 U	0.55 U	0.55 U	--	0.56 U	0.52 U	0.52 U	0.54 U	0.54 U
Aluminum	mg/kg	11300	11500	13500	14700	15400	14300	25100	16000	18500	14200	17200	14800	11700	9670	14700	13900
Iron	mg/kg	19200	16800	20200	18700	18000	17900	31800	19900	20100	18700	23700	24800	16800	15400	20300	17000
Lead	mg/kg	9.41 J	7.09 J	5.60 J	7.77 J	7.25 J	5.87 J	7.94 J	6.00 J	7.35 J	6.41 J	6.28 J	7.74 J	4.60 J	6.77 J	7.51 J	5.49 J
Lithium	mg/kg	18.5	17.6	19.5	18.3	17.3	22.2	32.0	21.2	20.7	16.2	23.2	21.2	15.6	15.2	20.0	16.1
Magnesium	mg/kg	4340	3330	4110	3810	3310	3640	8320	4110	3810	3670	5250	4360	3030	3470	3970	3140
Manganese	mg/kg	247	237	371	611	441	174	410 J	259	289	120	340 J	372	515	204	260	386
Mercury	mg/kg	0.107 U	0.101 U	0.107 U	0.103 U	0.107 U	0.108 U	0.109 U	0.0045 J	0.0044 J	0.106 U	0.0041 J	0.111 U	0.109 U	0.0073 J	0.0070 J	0.108 U
Molybdenum	mg/kg	0.450 J	0.515 J	0.456 J	0.863 J	0.680 J	0.466 J	0.315	0.572	0.509	0.818	0.462	0.471 J	0.437 J	0.555 J	0.570 J	0.549 J
Nickel	mg/kg	14.8 J	10.5 J	9.36 J	12.8 J	14.9 J	12.1 J	14.2	10.4 J	13.9 J	8.93 J	10.4	12.3 J	12.4 J	11.0 J	12.7 J	13.1 J
Potassium	mg/kg	2990 J	2480 J	2810 J	2560 J	2340 J	1700 J	6050 J	2480	2450 J	1750 J	3220 J	2820 J	1680 J	2480 J	2770 J	2220 J
Silver	mg/kg	0.0235 J	0.0229 J	0.0261 J	0.0334 J	0.0486 J	0.0371 J	0.0218 J	0.0335 J	0.0540 J	0.0372 J	0.0293 J	0.0350 J	0.0607 J	0.0297 J	0.0462 J	0.0448 J
Sodium	mg/kg	177	134	213	166	105 J	125	122	266	99.2 J	311	94.4 J	100 J	138	134	156	121
Strontium	mg/kg	25.2	15.7	24.8	22.3	19.0 J	18.0 J	44.9	22.6	21.2	19.6	21.8	22.1	16.7	18.5	19.4	16.4
Thallium	mg/kg	0.345 J	0.366 J	0.269 J	0.364 J	0.352 J	0.291 J	0.292	0.269	0.338	0.373	0.264	0.325 J	0.251 J	0.340 J	0.276 J	0.358 J
Tin	mg/kg	10.6 U	10.7 U	10.9 U	10.5 U	10.8 U	10.9 U	11.3 U	11.3 U	10.7 U	10.6 U	10.9 U	11.0 U	10.7 U	10.4 U	10.6 U	10.8 U
Titanium	mg/kg	1280	1150	1210	1150	1340	1300	1530	1170	1160	1170	1360	1140	878	1170	1140	1120
Antimony	mg/kg	0.219 UJ	0.213 R	0.211 R	0.216 UJ	0.222 R	0.219 R	1.24 J	0.0739 J	0.0743 J	0.223 UJ	0.152 J	0.214 R	0.209 UJ	0.207 R	0.214 UJ	0.217 R
Arsenic	mg/kg	6.65 J	5.33 J	4.44 J	7.33 J	5.10 J	5.44 J	5.72 J	4.52 J	4.90 J	6.14 J	4.12 J	4.89 J	5.87 J	5.77 J	5.61 J	4.17 J
Beryllium	mg/kg	0.843 J	0.546 J	0.510 J	0.577 J	0.729	0.815	0.599	0.585 J	0.785 J	0.599 J	0.515	0.575 J	0.644 J	0.484 J	0.631 J	0.614 J
Barium	mg/kg	115 J	100 J	97.0 J	110 J	143	90.9	94.2	94.3 J	116 J	97.5 J	102	105 J	184 J	120 J	109 J	123 J
Boron	mg/kg	2.53 J	2.75 J	2.34 J	2.91 J	8.63	8.45	16.7	9.54	5.08 J	2.83 J	8.01	2.16 J	2.73 J	2.16 J	2.17 J	1.80 J
Cadmium	mg/kg	0.153 J	0.137 J	0.0751 J	0.198 J	0.219 J	0.0750 J	0.180	0.112	0.129	0.0559 J	0.148	0.138 J	0.247 J	0.142 J	0.194 J	0.141 J
Chromium	mg/kg	34.0 J	18.1 J	16.8 J	24.3 J	20.0 J	15.8 J	32.7	19.5 J	23.3 J	21.2 J	16.8	21.4 J	18.3 J	19.9 J	22.8 J	18.1 J
Cobalt	mg/kg	9.37 J	6.10 J	5.61 J	6.83 J	8.93 J	12.6 J	8.18	5.03 J	7.93 J	3.97 J	5.42	6.66 J	10.5 J	6.95 J	6.48 J	7.13 J
Copper	mg/kg	11.4 J	8.33 J	8.21 J	10.9 J	9.46	6.98	12.0	8.00 J	9.40 J	8.05 J	8.83	10.1 J	6.92 J	12.8 J	10.0 J	8.85 J
Vanadium	mg/kg	68.8 J	36.4 J	36.5 J	44.2 J	30.2 J	31.8 J	61.5 J	36.8 J	47.9 J	40.5 J	35.8 J	42.2 J	34.6 J	44.4 J	41.1 J	35.3 J
Zinc	mg/kg	76.6 J	78.1 J	59.2 J	84.4 J	57.9	55.8	61.1 J	59.9 J	51.9 J	50.7 J	48.8 J	59.6 J	51.0 J	80.9 J	70.7 J	50.4 J
Zirconium	mg/kg	1.56 J	0.933 J	1.58 J	1.78 J	2.11 J	1.55 J	5.73	1.02 J	1.95 J	5.31 U	3.44 J	1.94 J	1.52 J	1.05 J	1.71 J	2.37 J
Calcium	mg/kg	5110 J	3440 J	5730 J	4230 J	2160 J	1780 J	18800 J	3430	2800	1980	4490 J	6430 J	2010 J	5430 J	7450 J	2110 J
Phosphorus	mg/kg	467	284	361	299	171	98.7	673 J	345 J	169 J	118 J	422 J	305	215	365	332	165
Selenium	mg/kg	0.256 J	0.115 J	0.124 J	0.170 J	0.113 J	0.0439 J	0.219 J	0.153 J	0.104 J	0.446 U	0.0973 J	0.0983 J	0.0615 J	0.116 J	0.115 J	0.0902 J
Chromium VI	mg/kg	0.36 J	1.2	1.1 U	1.1 U	0.71 J	1.1 U	0.38 J	1.1 U	1.1 U	1.1 U	0.24 J	1.1 U	1.1 U	1.1 U	1.1	0.37 J

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

Appendix A2
Metals and Inorganics - Validated Data
HSA-5C

Sample Name		SL-015-SA5C-SB-4.0-5.0	SL-015-SA5C-SB-9.0-10.0	SL-016-SA5C-SB-4.0-5.0	SL-016-SA5C-SB-9.0-10.0	SL-017-SA5C-SB-4.0-5.0	SL-017-SA5C-SB-9.0-10.0	SL-018-SA5C-SS-0.0-0.5	SL-018-SA5C-SB-4.0-5.0	SL-019-SA5C-SB-4.0-5.0	SL-019-SA5C-SB-8.5-9.5	SL-020-SA5C-SS-0.0-0.5	SL-020-SA5C-SB-4.0-5.0	SL-020-SA5C-SB-7.5-8.5	SL-021-SA5C-SB-4.0-5.0	SL-021-SA5C-SB-9.0-10.0	SL-022-SA5C-SB-4.0-5.0
Sample Date		12/08/2010	12/08/2010	12/08/2010	12/08/2010	12/09/2010	12/09/2010	10/26/2010	12/06/2010	12/07/2010	12/07/2010	10/26/2010	12/08/2010	12/08/2010	12/08/2010	12/08/2010	12/09/2010
SDG		DE033	DE033	DE033	DE033	DE034	DE034	DE004	DX013	DE030	DE030	DE004	DE033	DE033	DE033	DE033	DE033
Start Depth		4	9	4	9	4	9	0	4	4	8.5	0	4	7.5	4	9	4
End Depth		5	10	5	10	5	10	0.5	5	5	9.5	0.5	5	8.5	5	10	5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Perchlorate (314.0)	ug/kg	33.1 U	32.6 U	32.9 U	12.2 J	33.3 U	33.6 U	34.7 U	34.2 U	33.4 U	33.4 U	32.8 U	33.4 U	32.9 U	32.1 U	32.8 U	--
Perchlorate (6850)	ug/kg	--	--	5.5 U	5.5 U	--	--	--	--	--	--	--	--	5.5 U	5.3 U	5.5 U	--
Percent Moisture	%	9.5	8.1	8.8	9.1	9.8	10.6	13.6	12.3	10.2	10.3	8.4	10.1	8.7	6.4	8.5	8.9
pH	pH unit	8.12	8.51	8.27	8.20	7.58	8.04	8.41	7.03	7.97	8.48	8.37	8.48	7.09	8.66	8.76	7.26
Hydrazine	ng/g	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylhydrazine	ng/g	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dimethylhydrazine	ng/g	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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

Appendix A2
Metals and Inorganics - Validated Data
HSA-5C

Sample Name		SL-022-SA5C-SB-9.0-10.0	SL-024-SA5C-SS-0.0-0.5	SL-024-SA5C-SB-4.0-5.0	SL-024-SA5C-SB-9.0-10.0	SL-025-SA5C-SB-4.0-5.0	SL-025-SA5C-SB-9.0-10.0	SL-026-SA5C-SS-0.0-0.5	SL-026-SA5C-SB-4.0-5.0	SL-026-SA5C-SB-9.0-10.0	SL-027-SA5C-SS-0.0-0.5	SL-027-SA5C-SB-2.5-3.5	SL-027-SA5C-SB-9.0-10.0	SL-028-SA5C-SB-4.0-5.0	SL-030-SA5C-SB-4.0-5.0	SL-030-SA5C-SB-9.0-10.0	SL-031-SA5C-SB-4.0-5.0
Sample Date		12/09/2010	10/26/2010	12/06/2010	12/06/2010	12/06/2010	12/06/2010	10/25/2010	12/07/2010	12/07/2010	10/25/2010	12/07/2010	12/07/2010	12/06/2010	12/03/2010	12/03/2010	12/03/2010
SDG		DE033	DE004	DX013	DX013	DX013	DX013	DE004	DE030	DE030	DE004	DE030	DE030	DE029	DE028	DE028	DE028
Start Depth		9	0	4	9	4	9	0	4	9	0	2.5	9	4	4	9	4
End Depth		10	0.5	5	10	5	10	0.5	5	10	0.5	3.5	10	5	5	10	5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Nitrate	mg/kg	--	--	--	--	2.2 J	1.8 J	--	1.5 J	3.5	--	1.5 J	2.8	15.8 J	12.5	2.6	15.7
Fluoride	mg/kg	--	2.1 J	3.6 J	6.2 J	5.6 J	4.2 J	3.2	1.1	26.9	4.0	1.9	12.9	1.1 UJ	1.1	1.6	1.1 U
Cyanide	mg/kg	--	--	--	--	0.55 U	0.55 U	--	0.54 U	0.57 U	--	0.54 U	0.53 U	0.55 U	0.55 U	0.56 U	0.54 U
Aluminum	mg/kg	--	17400	24300	18500	16900	11700	18500	15500	20700	18600	15800	18000	--	14900	17200	13600
Iron	mg/kg	--	22200	20700	19500	20300	16400	22500	18300	22000	21300	18100	20900	--	19400 J	21200 J	18600 J
Lead	mg/kg	--	12.4 J	7.51 J	6.17 J	7.57 J	6.93 J	9.91 J	6.85 J	5.81 J	6.74 J	5.12 J	5.43 J	--	7.63 J	7.62 J	6.87 J
Lithium	mg/kg	--	21.6	19.1	19.1	20.3	18.0	21.0	15.7	22.2	21.1	17.4	21.9	--	20.6	22.5	16.9
Magnesium	mg/kg	--	4720	3130	3490	4210	3450	4840	3330	4390	4650	3550	4290	--	4240	4310	3590
Manganese	mg/kg	--	285 J	112	115	258	234	300 J	412	176	297 J	377	268	--	344	252	302
Mercury	mg/kg	--	0.0630 J	0.0060 J	0.0033 J	0.0127 J	0.0057 J	0.0059 J	0.109 U	0.0053 J	0.0078 J	0.108 U	0.113 U	--	0.108 U	0.0064 J	0.106 U
Molybdenum	mg/kg	--	0.394	0.576	0.556	0.718	0.657	0.432	0.865	1.18	0.396	0.550	0.337	--	0.779 J	0.604 J	0.826 J
Nickel	mg/kg	--	11.7	9.68 J	8.97 J	13.9 J	12.3 J	10.7	15.5 J	11.5 J	9.25	11.7 J	11.6 J	--	14.5 J	14.8 J	14.9 J
Potassium	mg/kg	--	2850 J	1060	1750	2390	2510	2780 J	2360 J	1890 J	2810 J	2660 J	1460 J	--	3810 J	1940 J	3690 J
Silver	mg/kg	--	0.0325 J	0.0444 J	0.0229 J	0.0490 J	0.0502 J	0.0348 J	0.0315 J	0.0354 J	0.0333 J	0.0441 J	0.0564 J	--	0.0411 J	0.0567 J	0.0345 J
Sodium	mg/kg	--	91.0 J	85.9 J	161	202	119	133	86.5 J	1530	140	63.5 J	1070	--	125	132	92.4 J
Strontium	mg/kg	--	22.7	18.8	14.3	27.1	16.3	21.1	21.4	19.7	20.5	22.6	24.7	--	16.4	20.4	19.2
Thallium	mg/kg	--	0.244	0.230	0.352	0.294	0.345	0.250	0.383	0.306	0.237	0.321	0.278	--	0.278 J	0.281 J	0.246 J
Tin	mg/kg	--	11.0 U	11.0 U	10.9 U	11.0 U	10.9 U	10.7 U	10.8 U	10.9 U	11.0 U	11.1 U	11.1 U	--	10.8 U	11.3 U	11.0 U
Titanium	mg/kg	--	1260	963	1090	1130	982	1380	1110	1380	1290	1170	1090	--	1310	1360	1150
Antimony	mg/kg	--	0.188 J	0.0919 J	0.216 UJ	0.0850 J	0.0763 J	0.183 J	0.0792 J	0.221 UJ	0.155 J	0.214 UJ	0.0678 J	--	0.0779 J	0.227 UJ	0.126 J
Arsenic	mg/kg	--	6.63 J	6.14 J	5.72 J	5.61 J	6.25 J	4.75 J	4.72 J	4.58 J	4.24 J	3.54 J	3.21 J	--	5.87 J	7.70 J	4.97 J
Beryllium	mg/kg	--	0.528	0.893 J	0.686 J	0.697 J	0.683 J	0.562	0.790 J	0.699 J	0.500	0.634 J	0.581 J	--	0.682 J	0.905 J	0.646 J
Barium	mg/kg	--	97.2	118 J	66.1 J	114 J	110 J	99.6	141 J	69.1 J	90.9	121 J	112 J	--	154 J	133 J	163 J
Boron	mg/kg	--	9.46	4.19 J	2.05 J	4.91 J	3.28 J	10.8	3.29 J	3.00 J	7.16	3.58 J	2.91 J	--	5.39 U	5.63 U	2.85 J
Cadmium	mg/kg	--	0.288	0.107 U	0.0430 J	0.243	0.183	0.139	0.238	0.0477 J	0.123	0.199	0.113	--	0.116 UJ	0.200 UJ	0.238 UJ
Chromium	mg/kg	--	20.3	20.6 J	19.4 J	26.2 J	23.2 J	21.4	22.6 J	23.2 J	16.5	17.8 J	23.8 J	--	22.8 J	23.3 J	22.9 J
Cobalt	mg/kg	--	6.06	3.93 J	3.79 J	7.11 J	6.87 J	5.84	8.86 J	4.38 J	5.20	5.85 J	4.52 J	--	7.35 J	10.1 J	7.26 J
Copper	mg/kg	--	10.4	6.10 J	6.18 J	11.7 J	11.5 J	8.98	13.2 J	8.40 J	9.44	10.0 J	8.18 J	--	11.8 J	8.24 J	14.8 J
Vanadium	mg/kg	--	42.9 J	42.0 J	40.7 J	47.5 J	43.7 J	41.4 J	43.6 J	43.1 J	35.7 J	34.2 J	36.4 J	--	44.7 J	49.2 J	44.4 J
Zinc	mg/kg	--	109 J	32.7 J	50.2 J	70.9 J	74.4 J	49.4 J	54.3 J	45.3 J	56.4 J	42.9 J	49.1 J	--	80.1 J	62.3 J	81.0 J
Zirconium	mg/kg	--	3.35 J	0.978 J	1.04 J	1.61 J	5.46 U	3.44 J	2.00 J	2.35 J	2.95 J	2.19 J	1.54 J	--	1.64 J	1.64 J	1.51 J
Calcium	mg/kg	--	5430 J	1640	1190	3840	2530	4070 J	1780	1230	3320 J	2000	1750	--	2550	2230	2170
Phosphorus	mg/kg	--	382 J	99.2 J	88.6 J	279 J	317 J	360 J	159 J	135 J	358 J	189 J	137 J	--	476	178	491
Selenium	mg/kg	--	0.115 J	0.0718 J	0.0486 J	0.154 J	0.113 J	0.113 J	0.139 J	0.0622 J	0.0985 J	0.129 J	0.452 U	--	0.134 J	0.0569 J	0.135 J
Chromium VI	mg/kg	--	1.0 J	0.41 J	1.1 U	1.1 U	1.1 U	0.29 J	0.92 J	1.1 U	0.82 J	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	0.44 J

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

Appendix A2
Metals and Inorganics - Validated Data
HSA-5C

Sample Name		SL-022-SA5C-SB-9.0-10.0	SL-024-SA5C-SS-0.0-0.5	SL-024-SA5C-SB-4.0-5.0	SL-024-SA5C-SB-9.0-10.0	SL-025-SA5C-SB-4.0-5.0	SL-025-SA5C-SB-9.0-10.0	SL-026-SA5C-SS-0.0-0.5	SL-026-SA5C-SB-4.0-5.0	SL-026-SA5C-SB-9.0-10.0	SL-027-SA5C-SS-0.0-0.5	SL-027-SA5C-SB-2.5-3.5	SL-027-SA5C-SB-9.0-10.0	SL-028-SA5C-SB-4.0-5.0	SL-030-SA5C-SB-4.0-5.0	SL-030-SA5C-SB-9.0-10.0	SL-031-SA5C-SB-4.0-5.0
Sample Date		12/09/2010	10/26/2010	12/06/2010	12/06/2010	12/06/2010	12/06/2010	10/25/2010	12/07/2010	12/07/2010	10/25/2010	12/07/2010	12/07/2010	12/06/2010	12/03/2010	12/03/2010	12/03/2010
SDG		DE033	DE004	DX013	DX013	DX013	DX013	DE004	DE030	DE030	DE004	DE030	DE030	DE029	DE028	DE028	DE028
Start Depth		9	0	4	9	4	9	0	4	9	0	2.5	9	4	4	9	4
End Depth		10	0.5	5	10	5	10	0.5	5	10	0.5	3.5	10	5	5	10	5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Perchlorate (314.0)	ug/kg	--	33.0 U	33.0 U	32.7 U	33.5 U	156	32.5 U	33.0 U	15.2 J	33.0 U	17.4 J	34.2 U	33.1 U	33.3 U	34.1 U	16.3 J
Perchlorate (6850)	ug/kg	--	--	--	--	5.6 U	--	--	--	--	--	--	--	--	--	--	--
Percent Moisture	%	12.9	9.0	9.0	8.3	10.5	9.3	7.8	9.0	12.1	9.0	10.3	12.4	9.4	10.0	12.0	11.2
pH	pH unit	--	8.35	7.98	8.24	8.59	8.46	7.12	6.66	7.02	8.35	7.48	8.57	8.00	7.33	7.16	6.55
Hydrazine	ng/g	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylhydrazine	ng/g	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dimethylhydrazine	ng/g	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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

Appendix A2
Metals and Inorganics - Validated Data
HSA-5C

Sample Name		SL-031-SA5C-SB-9.0-10.0	SL-032-SA5C-SS-0.0-0.5	SL-032-SA5C-SB-4.0-5.0	SL-033-SA5C-SS-0.0-0.5	SL-036-SA5C-SS-0.0-0.5	SL-036-SA5C-SB-4.0-5.0	SL-037-SA5C-SB-3.5-4.5	SL-038-SA5C-SS-0.0-0.5	SL-038-SA5C-SB-4.0-5.0	SL-039-SA5C-SS-0.0-0.5	SL-039-SA5C-SB-4.0-5.0	SL-040-SA5C-SB-4.0-5.0	SL-040-SA5C-SB-9.0-10.0	SL-041-SA5C-SS-0.0-0.5	SL-041-SA5C-SB-4.0-5.0	SL-042-SA5C-SS-0.0-0.5
Sample Date		12/03/2010	10/25/2010	12/03/2010	10/26/2010	01/04/2011	12/02/2010	12/02/2010	10/25/2010	01/05/2011	01/04/2011	12/02/2010	12/02/2010	12/02/2010	10/25/2010	02/04/2011	11/19/2010
SDG		DE028	DE004	DE028	DE004	DE052	DE027	DE027	DE004	DE053	DE052	DE027	DE027	DE027	DE004	DE076	DE020
Start Depth		9	0	4	0	0	4	3.5	0	4	0	4	4	9	0	4	0
End Depth		10	0.5	5	0.5	0.5	5	4.5	0.5	5	0.5	5	5	10	0.5	5	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Nitrate	mg/kg	1.5 J	--	1.7 J	--	--	--	2.6	--	--	--	1.4 J	--	--	--	--	--
Fluoride	mg/kg	2.5	7.4	4.9 J	1.5 J	11.4 J	1.7	5.1	1.1 U	1.9	13.0 J	4.3	1.1 U	1.8	1.5	1.6 J	1.8 J
Cyanide	mg/kg	0.56 U	--	0.54 U	--	--	--	0.57 U	--	--	--	0.53 U	--	--	--	--	--
Aluminum	mg/kg	29300	19100	20000	11000	21000	25300	10400 J	13400	16600	21400	21700	12000	18800	8620	31100 J	13600
Iron	mg/kg	29600 J	23900	24900 J	20000	21400	23200	19200 J	19900	19100	23800	21900	15600	24000	12600	35000	18400
Lead	mg/kg	7.81 J	10.6 J	7.15 J	5.39 J	6.97 J	7.06 J	6.17 J	6.82 J	5.03 J	7.78 J	5.27 J	6.49 J	6.11 J	4.16 J	10.1 J	23.8 J
Lithium	mg/kg	33.6	22.5	28.1	11.5	22.2	21.1	27.3 J	22.6	24.4	23.9	21.8	11.8	17.6	13.0	35.4 J	22.9 J
Magnesium	mg/kg	5400	4850	4960	3150	4640	4410	4050 J	4810	3710	5200	4290	3190	3300	2580	7140 J	4670
Manganese	mg/kg	209	306 J	155	296 J	228 J	131	270	277 J	217 J	226 J	137	186	168	209 J	441	259
Mercury	mg/kg	0.0096 J	0.0128 J	0.104 U	0.106 U	0.118 U	0.110 U	0.113 UJ	0.102 U	0.108 U	0.0041 J	0.105 U	0.113 U	0.0057 J	0.0088 J	0.108 U	0.0072 J
Molybdenum	mg/kg	0.660 J	0.445	0.727 J	0.216	0.531 J	0.283 U	0.231 U	0.362	0.409 J	0.620 J	0.301 U	0.355 U	1.42	0.628	0.449	0.446
Nickel	mg/kg	16.1 J	10.8	10.8 J	6.27	13.0	10.3	15.6 J	9.07	9.00	13.9	9.43	11.8	9.52	9.32	16.4	13.2 J
Potassium	mg/kg	1780 J	2930 J	1970 J	2330 J	2130 J	1320	2000	3850 J	2520 J	2150 J	1470	1020	1390	1590 J	2390	3140 J
Silver	mg/kg	0.0775 J	0.0374 J	0.0253 J	0.0183 J	0.0358 J	0.112 U	0.112 UJ	0.0206 J	0.0235 J	0.0310 J	0.0228 J	0.0487 J	0.0520 J	0.0267 J	0.0463 J	0.0353 J
Sodium	mg/kg	209	151	594	81.2 J	275	205	102 J	62.2 J	80.5 J	443	147	105 J	146	69.0 J	141	82.7 J
Strontium	mg/kg	28.5	30.8	24.4	16.6	25.8	25.2	13.4 J	12.4	17.4	25.9	20.0	17.3	16.2	19.6	30.7	14.5
Thallium	mg/kg	0.356 J	0.290	0.376 J	0.279	0.305	0.250 J	0.417 J	0.244	0.283	0.339	0.253 J	0.198 J	0.302 J	0.185	0.367 J	0.218 J
Tin	mg/kg	11.4 U	10.9 U	10.4 U	10.7 U	11.6 U	11.2 U	11.1 U	10.4 U	11.0 U	11.3 U	10.7 U	11.3 U	11.3 U	10.6 U	11.3 U	10.3 U
Titanium	mg/kg	1270	1230	1320	1220	1350	1380	1480	1360	1220	1450	1250	1310	1370	679	1580	1220
Antimony	mg/kg	0.111 J	0.187 J	0.140 J	0.105 J	0.236 UJ	0.0937 J	0.220 J	0.0867 J	0.216 UJ	0.229 UJ	0.0992 J	0.0910 J	0.144 J	0.138 J	0.174 J	0.209 UJ
Arsenic	mg/kg	6.87 J	5.44 J	6.97 J	5.25 J	6.24 J	6.24 J	14.4 J	4.13 J	4.00 J	5.66 J	5.81 J	6.32 J	7.58 J	3.62 J	9.29 J	4.18 J
Beryllium	mg/kg	0.971 J	0.627	0.961 J	0.363	0.799 J	0.901	0.525 J	0.420	0.562 J	0.758 J	0.620	0.610	0.759	0.398	0.996 J	0.441
Barium	mg/kg	159 J	99.6	132 J	55.3	134	98.6 J	122 J	81.5	89.7	143	90.5 J	129 J	96.2 J	67.6	124	105 J
Boron	mg/kg	5.68 U	11.2	5.21 U	8.03	8.29	15.9	11.5	6.15	5.50 U	53.0	11.3	9.25	12.1	5.27 J	5.64 U	2.55 J
Cadmium	mg/kg	0.114 UJ	0.166	0.107 UJ	0.0642 J	0.0901 J	0.112 U	0.0845 J	0.100 J	0.0763 J	0.129	0.0489 J	0.116 J	0.113 U	0.105 J	0.0867 J	0.191
Chromium	mg/kg	33.7 J	19.7	23.9 J	15.6	24.8 J	21.7 J	22.2 J	19.7	16.7 J	25.0 J	19.8 J	23.2 J	22.4 J	16.1	30.4 J	20.1 J
Cobalt	mg/kg	6.44 J	5.80	6.69 J	3.36	5.33 J	5.19	6.50 J	5.00	4.08 J	7.17 J	3.98	6.63	3.18	4.83	9.15 J	5.76
Copper	mg/kg	11.6 J	8.86	8.82 J	6.15	8.37 J	7.08 J	11.4 J	6.95	4.83 J	8.93 J	7.73 J	7.13 J	8.56 J	6.37	12.8 J	9.10 J
Vanadium	mg/kg	51.6 J	38.7 J	41.0 J	29.8 J	53.4 J	42.4 J	43.6 J	33.7 J	33.9 J	56.1 J	37.4 J	45.5 J	43.6 J	27.8 J	56.6 J	35.6 J
Zinc	mg/kg	70.0 J	59.3 J	47.7 J	44.8 J	51.4	52.2 J	93.0 J	54.0 J	59.2	71.7	49.1 J	48.7 J	44.9 J	41.1 J	66.0	72.5
Zirconium	mg/kg	1.42 J	4.37 J	1.30 J	2.92 J	2.21 J	3.34 J	3.81 J	2.58 J	1.45 J	2.28 J	3.74 J	3.00 J	5.00 J	3.12 J	5.64 U	3.91 J
Calcium	mg/kg	3240	8050 J	3030	2210 J	2280	1950 J	3030 J	2960 J	2230	2940	1870 J	1840 J	2150 J	3830 J	3750	3510
Phosphorus	mg/kg	126	311 J	136	272 J	170 J	103 J	422 J	511 J	227 J	184 J	80.6 J	80.6 J	129 J	369 J	228 J	405
Selenium	mg/kg	0.0670 J	0.133 J	0.177 J	0.0650 J	0.134 J	0.0460 J	0.0937 J	0.111 J	0.0927 J	0.125 J	0.0642 J	0.0630 J	0.452 U	0.330 J	0.101 J	0.124 J
Chromium VI	mg/kg	1.1 U	0.45 J	1.1 U	0.38 J	0.42 J	1.1 U	1.1 U	0.33 J	0.37 J	0.33 J	0.51 J	1.1 U	0.52 J	1.3 J	1.1 U	1.2

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

Appendix A2
Metals and Inorganics - Validated Data
HSA-5C

Sample Name		SL-031-SA5C-SB-9.0-10.0	SL-032-SA5C-SS-0.0-0.5	SL-032-SA5C-SB-4.0-5.0	SL-033-SA5C-SS-0.0-0.5	SL-036-SA5C-SS-0.0-0.5	SL-036-SA5C-SB-4.0-5.0	SL-037-SA5C-SB-3.5-4.5	SL-038-SA5C-SS-0.0-0.5	SL-038-SA5C-SB-4.0-5.0	SL-039-SA5C-SS-0.0-0.5	SL-039-SA5C-SB-4.0-5.0	SL-040-SA5C-SB-4.0-5.0	SL-040-SA5C-SB-9.0-10.0	SL-041-SA5C-SS-0.0-0.5	SL-041-SA5C-SB-4.0-5.0	SL-042-SA5C-SS-0.0-0.5
Sample Date		12/03/2010	10/25/2010	12/03/2010	10/26/2010	01/04/2011	12/02/2010	12/02/2010	10/25/2010	01/05/2011	01/04/2011	12/02/2010	12/02/2010	12/02/2010	10/25/2010	02/04/2011	11/19/2010
SDG		DE028	DE004	DE028	DE004	DE052	DE027	DE027	DE004	DE053	DE052	DE027	DE027	DE027	DE004	DE076	DE020
Start Depth		9	0	4	0	0	4	3.5	0	4	0	4	4	9	0	4	0
End Depth		10	0.5	5	0.5	0.5	5	4.5	0.5	5	0.5	5	5	10	0.5	5	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Perchlorate (314.0)	ug/kg	34.4 U	33.5 U	32.5 U	32.2 U	35.7 U	21.9 J	11.3 J	32.3 U	33.3 U	34.3 U	32.3 U	34.2 U	34.6 U	32.2 U	34.2 U	31.3 U
Perchlorate (6850)	ug/kg	5.7 U	--	--	--	--	--	--	--	--	--	5.4 U	--	5.8 U	--	--	--
Percent Moisture	%	12.9	10.4	7.8	6.9	16.0	13.0	12.4	7.1	10	12.6	7.2	12.2	13.2	6.8	12.3	4.2
pH	pH unit	8.15	8.09	7.16	8.02	7.13	7.66	7.02	8.11	7.70	8.76	8.07	7.19	6.92	7.26	6.82	8.19
Hydrazine	ng/g	--	--	--	--	--	--	2.3 U	--	--	--	--	--	--	--	--	--
Methylhydrazine	ng/g	--	--	--	--	--	--	5.7 U	--	--	--	--	--	--	--	--	--
1,1-Dimethylhydrazine	ng/g	--	--	--	--	--	--	5.7 U	--	--	--	--	--	--	--	--	--

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

Appendix A2
Metals and Inorganics - Validated Data
HSA-5C

Sample Name		SL-043-SA5C-SS-0.0-0.5	SL-043-SA5C-SB-2.0-3.0	SL-044-SA5C-SB-4.0-5.0	SL-044-SA5C-SB-9.0-10.0	SL-045-SA5C-SS-0.0-0.5	SL-045-SA5C-SB-4.0-5.0	SL-045-SA5C-SB-8.0-9.0	SL-046-SA5C-SB-4.0-5.0	SL-046-SA5C-SB-9.0-10.0	SL-047-SA5C-SS-0.0-0.5	SL-047-SA5C-SB-4.0-5.0	SL-049-SA5C-SS-0.0-0.5	SL-050-SA5C-SS-0.0-0.5	SL-050-SA5C-SB-4.0-5.0	SL-050-SA5C-SB-9.0-10.0	SL-051-SA5C-SS-0.0-0.5
Sample Date		10/25/2010	11/30/2010	12/01/2010	12/01/2010	10/25/2010	12/01/2010	12/01/2010	12/01/2010	12/01/2010	10/25/2010	12/01/2010	10/22/2010	10/22/2010	11/22/2010	11/22/2010	10/21/2010
SDG		DE004	DE025	DE026	DE026	DE004	DE026	DE026	DE026	DE026	DE004	DE026	DE003	DE003	DE021	DE021	DX002
Start Depth		0	2	4	9	0	4	8	4	9	0	4	0	0	4	9	0
End Depth		0.5	3	5	10	0.5	5	9	5	10	0.5	5	0.5	0.5	5	10	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Nitrate	mg/kg	--	--	5.1	2.5	--	--	--	2.9	1.1 J	--	--	--	--	2.8	3.9	--
Fluoride	mg/kg	3.4	5.0	1.3	1.1 U	2.0	8.4	9.0	8.0	6.2	1.4	3.6	1.1 U	2.1	8.9	3.2	5.2 J
Cyanide	mg/kg	--	--	0.57 U	0.56 U	--	--	--	0.52 U	0.54 U	--	--	--	--	0.53 U	0.54 U	--
Aluminum	mg/kg	16800	31300	24500	21300	15500	27500	17700	21900	20000	11100	31200	12000	24400	20400	26800	15700
Iron	mg/kg	19800	46200	23200	24400	20600	27500	19000	20400	24900	17100	37800	20800	24700	22000	22600	21500
Lead	mg/kg	23.4 J	7.73 J	8.35	7.48	8.61 J	8.02	5.39	7.07	6.89	3.88 J	8.84	30.4 J	6.09 J	8.83 J	7.64 J	22.5 J
Lithium	mg/kg	21.2	60.2	29.6 J	23.3 J	21.7	28.8 J	23.8 J	24.0 J	27.2 J	23.0	43.4 J	13.8	23.8	21.7 J	25.4 J	16.8
Magnesium	mg/kg	4200	11400	5810	4610	4420	5430	4190	4180	5030	3460	6720	5190	4410	4400	4900	3640
Manganese	mg/kg	334 J	327	204 J	234 J	344 J	196 J	161 J	237 J	387 J	261 J	162 J	281 J	215 J	291	295	261
Mercury	mg/kg	0.108 U	0.109 U	0.0134 J	0.112 U	0.105 U	0.0076 J	0.106 U	0.102 U	0.104 U	0.105 U	0.0077 J	0.0054 J	0.0065 J	0.0044 J	0.0039 J	0.0062 J
Molybdenum	mg/kg	0.674	0.316 J	0.287	0.424	0.577	0.646	0.368	0.443	0.466	0.203	0.322	0.723	0.386	0.476	1.05	2.90 J
Nickel	mg/kg	12.7	27.2 J	17.7	14.6	12.6	14.3	9.94	14.2	15.0	6.13	21.8	8.78	9.52	13.7 J	15.9 J	16.4 J
Potassium	mg/kg	2440 J	3660 J	2430 J	1660 J	3020 J	2340 J	2080 J	2250 J	2450 J	2960 J	1740 J	3710 J	2270 J	2230 J	1450 J	2660 J
Silver	mg/kg	0.269	0.0393 J	0.0295 J	0.0551 J	0.0272 J	0.0804 J	0.0267 J	0.0442 J	0.0186 J	0.106 U	0.109 J	0.0438 J	0.0327 J	0.0560 J	0.0541 J	0.0755 J
Sodium	mg/kg	175	943	156	120	114	404	374	246	217	66.7 J	415	283	101 J	182	143	116
Strontium	mg/kg	31.9	50.6	31.7	24.9	19.4	31.4	20.9	25.9	27.0	12.0	47.8	51.5	32.3	29.9	25.8	32.9
Thallium	mg/kg	0.240	0.416 J	0.318	0.333	0.293	0.339	0.338	0.297	0.292	0.245	0.406	0.169 J	0.213 J	0.319 J	0.269 J	0.323 J
Tin	mg/kg	10.9 U	10.9 U	2.86 J	2.71 J	10.7 U	2.93 J	2.44 J	2.41 J	2.63 J	10.7 U	2.96 J	10.9 U	11.0 U	10.7 U	11.0 U	11.2 U
Titanium	mg/kg	1140	2330	1660	1450	1280	1650	1350	1370	1570	1100	1220	1490	1500	1250	1370	1110
Antimony	mg/kg	0.224 J	0.0676 J	0.191 J	0.196 J	0.178 J	0.207 J	0.0760 J	0.180 J	0.128 J	3.57 J	0.223 J	0.261 J	0.0917 J	0.229 UJ	0.217 UJ	0.511 J
Arsenic	mg/kg	4.52 J	8.26 J	7.49	7.38	5.85 J	7.78	7.66	6.66	8.39	2.96 J	9.16	3.49 J	4.91 J	5.88 J	5.54 J	6.36
Beryllium	mg/kg	0.539	1.35 J	0.867	0.882	0.657	0.950	0.666	0.792	0.838	0.372	1.07	0.293	0.616	0.726	0.922	0.701
Barium	mg/kg	98.2	108 J	174	157	112	164	88.5	130	131	68.3	175	113	91.1	125 J	143 J	134 J
Boron	mg/kg	10.8	17.0 J	14.9	13.8	7.59	13.6	11.2	12.7	12.6	5.66	16.3	3.37 J	2.79 J	2.62 J	1.56 J	6.12 J
Cadmium	mg/kg	0.843	0.109 UJ	0.116 U	0.111 U	0.186	0.109 U	0.116 U	0.104 U	0.108 U	0.0611 J	0.113 U	0.291	0.0680 J	0.140	0.109 U	0.898 J
Chromium	mg/kg	25.7	34.4 J	35.6	28.5	21.7	31.7	17.1	25.9	26.5	10.4	43.0	14.8	18.3	24.8 J	23.9 J	24.9 J
Cobalt	mg/kg	5.15	9.94	7.04	5.96	7.51	5.52	5.25	6.25	8.06	3.76	6.49	5.20	4.63	7.34	7.25	8.22
Copper	mg/kg	15.4	21.0 J	9.42	8.91	11.5	8.89	6.64	9.33	8.28	4.44	15.8	19.3 J	9.69 J	12.4 J	9.25 J	40.8 J
Vanadium	mg/kg	35.5 J	56.0 J	61.3	54.0	40.7 J	58.1	36.5	46.6	52.2	22.6 J	70.2	37.1 J	36.2 J	45.6 J	49.9 J	47.2
Zinc	mg/kg	140 J	123 J	75.8	60.1	50.3 J	58.0	51.9	64.4	69.5	52.6 J	84.9	78.9 J	42.6 J	57.3	51.3	178 J
Zirconium	mg/kg	2.84 J	5.57	1.64 J	1.49 J	2.99 J	2.17 J	1.34 J	1.85 J	1.53 J	2.98 J	1.52 J	4.49 J	4.74 J	3.09 J	3.44 J	3.43 J
Calcium	mg/kg	3090 J	6490 J	3530	2500	2830 J	2760	2010	2610	2650	2180 J	4190	19300	4050	3390	2550	3160 J
Phosphorus	mg/kg	405 J	640	120 J	143 J	340 J	150 J	145 J	142 J	175 J	314 J	98.6 J	635 J	183 J	188	263	378 J
Selenium	mg/kg	0.143 J	0.131 J	0.0735 J	0.0713 J	0.207 J	0.0771 J	0.418 U	0.0927 J	0.430 U	0.0622 J	0.0667 J	0.0944 J	0.0500 J	0.111 J	0.0473 J	0.335 J
Chromium VI	mg/kg	1.1	0.75 J	1.2 U	1.1 U	0.39 J	2.5	1.1 U	1.1 U	1.1 U	0.36 J	1.2 U	1.1 U	1.1 U	0.34 J	0.43 J	1.1 U

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

Appendix A2
Metals and Inorganics - Validated Data
HSA-5C

Sample Name		SL-043-SA5C-SS-0.0-0.5	SL-043-SA5C-SB-2.0-3.0	SL-044-SA5C-SB-4.0-5.0	SL-044-SA5C-SB-9.0-10.0	SL-045-SA5C-SS-0.0-0.5	SL-045-SA5C-SB-4.0-5.0	SL-045-SA5C-SB-8.0-9.0	SL-046-SA5C-SB-4.0-5.0	SL-046-SA5C-SB-9.0-10.0	SL-047-SA5C-SS-0.0-0.5	SL-047-SA5C-SB-4.0-5.0	SL-049-SA5C-SS-0.0-0.5	SL-050-SA5C-SS-0.0-0.5	SL-050-SA5C-SB-4.0-5.0	SL-050-SA5C-SB-9.0-10.0	SL-051-SA5C-SS-0.0-0.5
Sample Date		10/25/2010	11/30/2010	12/01/2010	12/01/2010	10/25/2010	12/01/2010	12/01/2010	12/01/2010	12/01/2010	10/25/2010	12/01/2010	10/22/2010	10/22/2010	11/22/2010	11/22/2010	10/21/2010
SDG		DE004	DE025	DE026	DE026	DE004	DE026	DE026	DE026	DE026	DE004	DE026	DE003	DE003	DE021	DE021	DX002
Start Depth		0	2	4	9	0	4	8	4	9	0	4	0	0	4	9	0
End Depth		0.5	3	5	10	0.5	5	9	5	10	0.5	5	0.5	0.5	5	10	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Perchlorate (314.0)	ug/kg	33.2 U	33.1 U	34.8 U	34.1 U	32.3 U	33.4 U	32.3 U	32.3 U	32.6 U	32.2 U	34.7 U	32.9 U	33.2 U	32.8 U	33.9 U	33.5 U
Perchlorate (6850)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	5.5 U	--	--	--
Percent Moisture	%	9.7	9.3	13.8	12.0	7.1	10.1	7.0	7.2	7.9	6.7	13.5	8.9	9.6	8.5	11.5	10.5
pH	pH unit	7.08	8.17	6.67	6.94	7.96	6.98	7.45	7.01	7.28	7.51	7.20	8.47	7.92	8.49	7.22	7.80
Hydrazine	ng/g	--	--	2.3 U	0.90 J	--	--	--	2.2 U	2.2 U	--	--	--	--	2.2 U	2.3 U	--
Methylhydrazine	ng/g	--	--	5.8 U	5.7 U	--	--	--	5.4 U	5.4 U	--	--	--	--	5.5 U	5.6 U	--
1,1-Dimethylhydrazine	ng/g	--	--	5.8 U	5.7 U	--	--	--	5.4 U	5.4 U	--	--	--	--	5.5 U	5.6 U	--

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

Appendix A2
Metals and Inorganics - Validated Data
HSA-5C

Sample Name		SL-051-SA5C-SB-3.0-4.0	SL-052-SA5C-SS-0.0-0.5	SL-052-SA5C-SB-2.5-3.0	SL-053-SA5C-SS-0.0-0.5	SL-053-SA5C-SB-3.0-4.0	SL-054-SA5C-SS-0.0-0.5	SL-054-SA5C-SB-3.0-4.0	SL-056-SA5C-SS-0.0-0.5	SL-056-SA5C-SB-4.0-5.0	SL-056-SA5C-SB-9.0-10.0	SL-057-SA5C-SS-0.0-0.5	SL-057-SA5C-SB-4.0-5.0	SL-057-SA5C-SB-7.0-8.0	SL-058-SA5C-SB-3.0-4.0	SL-059-SA5C-SB-1.0-2.0	SL-059-SA5C-SB-9.0-10.0
Sample Date		11/19/2010	10/21/2010	11/19/2010	10/22/2010	11/22/2010	10/21/2010	11/18/2010	10/22/2010	01/04/2011	01/04/2011	10/22/2010	11/30/2010	11/30/2010	11/29/2010	11/29/2010	11/29/2010
SDG		DE020	DX002	DE020	DE003	DE021	DX002	DE019	DE003	DE052	DE052	DE003	DE025	DE025	DX011	DX011	DX011
Start Depth		3	0	2.5	0	3	0	3	0	4	9	0	4	7	3	1	9
End Depth		4	0.5	3	0.5	4	0.5	4	0.5	5	10	0.5	5	8	4	2	10
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Nitrate	mg/kg	--	--	1.6	--	1.3 J	--	1.4 J	--	--	--	--	--	--	--	2.5	3.0
Fluoride	mg/kg	3.5 J	3.0 J	9.6 J	3.5	5.2	5.9 J	10.9	4.2 J	1.8 J	--	6.7 J	7.0	2.1	4.8	2.9	7.0
Cyanide	mg/kg	--	--	0.55 U	--	0.51 U	--	0.56 U	--	--	--	--	--	--	--	0.55 U	0.58 U
Aluminum	mg/kg	24200	12500	23900	16200	21400	15200	28400	16000	25500	--	13800	31200	21700	16500	21300	38600
Iron	mg/kg	21400	18600	27300	18800	25100	20100	33500	18400	29800	--	17200	30200	23900	20600	23500	31100
Lead	mg/kg	7.91 J	10.3 J	10.8 J	5.79 J	7.93 J	17.8 J	10.1 J	270 J	10.8 J	--	36.3 J	8.05 J	5.98 J	4.34 J	7.33 J	8.98 J
Lithium	mg/kg	32.4 J	12.7	28.7 J	20.6	26.3 J	16.8	55.1 J	18.3	33.4	--	19.0	30.8	26.9	20.8	25.1	23.4
Magnesium	mg/kg	4860	3560	4900	4010	5060	3920	8180	8930	6290	--	4230	6710	5770	5320	5120	6510
Manganese	mg/kg	117	234	243	253 J	210	284	240	356 J	534 J	--	246 J	334	241	315	298	166
Mercury	mg/kg	0.107 U	0.0095 J	0.109 U	0.0072 J	0.101 U	0.0032 J	0.0070 J	0.0876 J	0.115 U	--	0.237	0.109 U	0.104 U	0.0986 U	0.107 U	0.0153 J
Molybdenum	mg/kg	0.462	2.00 J	0.776	0.392	0.905	3.33 J	0.343	2.88	1.35 J	--	0.442	0.497 J	0.280 J	0.439 J	0.666 J	0.404 J
Nickel	mg/kg	14.7 J	11.7 J	12.9 J	8.98	12.3 J	16.0 J	23.6 J	35.0	50.6	--	9.26	23.5 J	17.2 J	9.51 J	19.5 J	16.4 J
Potassium	mg/kg	1590 J	2430 J	1940 J	2780 J	1640 J	2720 J	2190 J	3160 J	3710 J	--	2680 J	3420 J	2200 J	3150 J	3040 J	2480 J
Silver	mg/kg	0.107 J	0.0460 J	0.0688 J	0.0304 J	0.0330 J	0.0864 J	0.114	0.694	0.0907 J	--	0.0617 J	0.0842 J	0.0661 J	0.0278 J	0.0587 J	0.0643 J
Sodium	mg/kg	377	148	414	109	405	138	1100	339	115 J	--	85.3 J	223	186	123	171	239
Strontium	mg/kg	53.7	21.6	25.7	19.9	26.8	26.3	68.0	68.2	26.5	--	16.4	39.7	32.7	19.0	25.8	45.4
Thallium	mg/kg	0.324 J	0.236 J	0.313 J	0.265 J	0.302 J	0.339 J	0.484 J	0.152 J	0.466	--	0.169 J	0.460 J	0.307 J	0.260 J	0.320 J	0.368 J
Tin	mg/kg	10.7 U	10.6 U	10.7 U	10.7 U	10.4 U	11.1 U	11.2 U	11.5 U	11.7 U	--	10.2 U	10.9 U	10.6 U	10.4 U	10.8 U	11.8 U
Titanium	mg/kg	1140	1070	1490	1360	1210	1140	1470	1260	1620	--	1260	1450	1210	1340	1200	1250
Antimony	mg/kg	0.219 UJ	0.260 J	0.213 UJ	0.0655 J	0.209 UJ	0.340 J	0.288 UJ	1.58 J	0.247 UJ	--	0.101 J	0.0797 J	0.0698 J	0.0627 J	0.0852 J	0.104 J
Arsenic	mg/kg	7.15 J	3.80	9.22 J	5.11 J	6.64 J	7.06	6.20 J	5.08 J	10.0 J	--	3.64 J	7.99 J	5.99 J	5.72 J	7.04 J	7.63 J
Beryllium	mg/kg	0.827	0.466	0.866	0.513	0.814	0.854	1.10	1.12	1.08 J	--	0.519	1.12 J	0.756 J	0.606 J	0.840 J	1.04 J
Barium	mg/kg	107 J	118 J	95.3 J	80.2	134 J	148 J	146 J	181	184	--	81.0	167 J	142 J	78.1 J	130 J	187 J
Boron	mg/kg	1.42 J	2.34 J	2.00 J	2.65 J	1.39 J	2.97 J	2.51 J	16.0	5.86 U	--	3.41 J	3.92 J	4.74 J	7.31	20.2	10.1
Cadmium	mg/kg	0.0823 J	0.188 J	0.0461 J	0.134	0.0514 J	0.399 J	0.112 U	7.19	0.221	--	0.349	0.341 J	0.245 J	0.109 J	0.282 J	0.0845 J
Chromium	mg/kg	27.0 J	20.4 J	27.5 J	15.9	25.1 J	38.0 J	40.6 J	45.2	54.0 J	--	21.6	41.4 J	31.2 J	17.6 J	28.9 J	36.6 J
Cobalt	mg/kg	4.73	6.33	10.5	5.57	6.00	6.43	9.65	7.00	11.0 J	--	4.29	10.9	7.52	5.53	7.83	7.08
Copper	mg/kg	8.53 J	19.8 J	9.60 J	12.3 J	8.78 J	29.0 J	18.8 J	33.9 J	15.0 J	--	7.44 J	15.4 J	9.87 J	6.26 J	12.4 J	11.2 J
Vanadium	mg/kg	50.2 J	44.7	60.2 J	33.0 J	47.9 J	57.3	53.3 J	35.8 J	75.5 J	--	26.8 J	76.4 J	58.0 J	32.0 J	49.7 J	66.5 J
Zinc	mg/kg	47.9	67.7 J	55.3	57.6 J	51.1	107 J	87.5	1250 J	95.9	--	108 J	102 J	71.6 J	53.0 J	75.8 J	63.4 J
Zirconium	mg/kg	3.60 J	1.76 J	5.07 J	3.23 J	3.60 J	2.29 J	4.74 J	24.7	2.55 J	--	3.69 J	6.61	5.87	3.16 J	4.87 J	7.01
Calcium	mg/kg	22200	3420 J	2610	3890	2680	2810 J	6160	27900	3490	--	4120	4830 J	4100 J	2680 J	2970 J	4300 J
Phosphorus	mg/kg	169	589 J	149	304 J	168	337 J	418	374 J	444 J	--	295 J	204	175	291	363	147
Selenium	mg/kg	0.0854 J	0.184 J	0.144 J	0.0944 J	0.112 J	0.326 J	0.0495 J	0.727	0.210 J	--	0.150 J	0.126 J	0.0458 J	0.179 J	0.211 J	0.105 J
Chromium VI	mg/kg	0.40 J	1.1 U	0.39 J	1.1 U	0.28 J	1.1 U	1.1 U	4.0	0.76 J	--	1.1 U	0.63 J	1.1 U	1.0 U	1.1 U	0.45 J

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

Appendix A2
Metals and Inorganics - Validated Data
HSA-5C

Sample Name		SL-051-SA5C-SB-3.0-4.0	SL-052-SA5C-SS-0.0-0.5	SL-052-SA5C-SB-2.5-3.0	SL-053-SA5C-SS-0.0-0.5	SL-053-SA5C-SB-3.0-4.0	SL-054-SA5C-SS-0.0-0.5	SL-054-SA5C-SB-3.0-4.0	SL-056-SA5C-SS-0.0-0.5	SL-056-SA5C-SB-4.0-5.0	SL-056-SA5C-SB-9.0-10.0	SL-057-SA5C-SS-0.0-0.5	SL-057-SA5C-SB-4.0-5.0	SL-057-SA5C-SB-7.0-8.0	SL-058-SA5C-SB-3.0-4.0	SL-059-SA5C-SB-1.0-2.0	SL-059-SA5C-SB-9.0-10.0
Sample Date		11/19/2010	10/21/2010	11/19/2010	10/22/2010	11/22/2010	10/21/2010	11/18/2010	10/22/2010	01/04/2011	01/04/2011	10/22/2010	11/30/2010	11/30/2010	11/29/2010	11/29/2010	11/29/2010
SDG		DE020	DX002	DE020	DE003	DE021	DX002	DE019	DE003	DE052	DE052	DE003	DE025	DE025	DX011	DX011	DX011
Start Depth		3	0	2.5	0	3	0	3	0	4	9	0	4	7	3	1	9
End Depth		4	0.5	3	0.5	4	0.5	4	0.5	5	10	0.5	5	8	4	2	10
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Perchlorate (314.0)	ug/kg	33.4 U	32.2 U	32.9 U	33.1 U	32.0 U	18.9 J	33.8 U	35.4 U	35.2 U	--	31.9 U	33.4 U	32.4 U	31.4 U	33.1 U	35.8 U
Perchlorate (6850)	ug/kg	2.6 J	--	--	--	--	--	--	--	--	--	--	--	--	5.2 U	--	--
Percent Moisture	%	10.3	6.8	8.7	9.3	6.3	10.8	11.3	15.3	14.7	11.9	6.0	10.2	7.5	4.5	9.3	16.3
pH	pH unit	7.27	7.31	7.53	8.45	7.13	7.03	8.38	8.30	6.42	--	7.45	7.38	7.63	6.94	7.70	7.62
Hydrazine	ng/g	--	--	2.2 U	--	2.1 U	--	2.3 U	--	--	--	--	--	--	--	2.2 U	2.4 U
Methylhydrazine	ng/g	--	--	5.5 U	--	5.3 U	--	5.6 U	--	--	--	--	--	--	--	5.5 U	6.0 U
1,1-Dimethylhydrazine	ng/g	--	--	5.5 U	--	5.3 U	--	5.6 U	--	--	--	--	--	--	--	5.5 U	6.0 U

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

Appendix A2
Metals and Inorganics - Validated Data
HSA-5C

Sample Name		SL-060-SA5C-SS-0.0-0.5	SL-060-SA5C-SB-4.0-5.0	SL-060-SA5C-SB-9.0-10.0	SL-060-SA5C-SB-10.0-11.0	SL-061-SA5C-SS-0.0-0.5	SL-061-SA5C-SB-4.0-5.0	SL-061-SA5C-SB-9.0-10.0	SL-062-SA5C-SS-0.0-0.5	SL-062-SA5C-SB-2.5-3.5	SL-063-SA5C-SB-4.0-5.0	SL-064-SA5C-SB-4.0-5.0	SL-065-SA5C-SS-0.0-0.5	SL-065-SA5C-SB-2.5-3.5	SL-066-SA5C-SS-0.0-0.5	SL-066-SA5C-SB-3.0-4.0	SL-067-SA5C-SS-0.0-0.5
Sample Date		10/22/2010	11/23/2010	11/23/2010	12/14/2010	10/22/2010	11/24/2010	11/24/2010	10/22/2010	11/23/2010	11/24/2010	11/24/2010	10/22/2010	11/23/2010	10/22/2010	11/22/2010	10/21/2010
SDG		DE003	DE022	DE022	DE039	DE003	DE023	DE023	DE003	DE022	DE023	DE023	DE003	DE022	DE003	DE021	DX002
Start Depth		0	4	9	10	0	4	9	0	2.5	4	4	0	2.5	0	3	0
End Depth		0.5	5	10	11	0.5	5	10	0.5	3.5	5	5	0.5	3.5	0.5	4	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Nitrate	mg/kg	--	2.2	7.2	1.3 J	--	3.3	1.5 U	--	--	--	3.9	--	--	--	1.6 U	--
Fluoride	mg/kg	1.6 J	1.0 J	1.1 U	0.95 J	1.9 J	19.6	0.90 J	2.7 J	15.4 J	24.8	31.7	2.6	5.3 J	3.0	2.8	2.5 J
Cyanide	mg/kg	--	0.52 U	1.2	0.55 U	--	0.54 U	0.50 U	--	--	--	0.58 U	--	--	--	0.53 U	--
Aluminum	mg/kg	15100	14000	14600	16400	16500	22600	11900	16500	17500	24300	26800	21100	12500	24700	28900	18400
Iron	mg/kg	19200	16900	17300	25900	21400	23200	16100	18200	23000	27200	26800	22400	19700	24400	41800	24100
Lead	mg/kg	7.69 J	5.52 J	6.11 J	12.3 J	7.63 J	8.84 J	2.77 J	12.2 J	7.65 J	7.92 J	11.3 J	26.5 J	5.07 J	27.9 J	19.0 J	20.1 J
Lithium	mg/kg	17.5	20.9 J	17.7 J	31.9 J	24.9	19.4	13.2	16.1	27.3 J	24.2	25.4	18.9	25.3 J	21.2	55.2 J	20.3
Magnesium	mg/kg	4050	3810	3990	6480	4420	4650	3850	3630	5410	5120	5910	4440	4760	5060	9820	4230
Manganese	mg/kg	309 J	309	327	387	296 J	294	214	287 J	202	144	128	362 J	251	407 J	313	319
Mercury	mg/kg	0.0085 J	0.0999 U	0.108 U	0.110 U	0.0209 J	0.0153 J	0.101 U	0.0047 J	0.109 U	0.0048 J	0.107 U	0.113	0.101 U	0.0576 J	0.0183 J	0.0159 J
Molybdenum	mg/kg	0.417	0.622	0.806	1.12 J	0.411	0.583 J	0.427 J	0.427	0.321	0.427 J	0.163 J	0.600	0.179	0.494	0.404	3.15 J
Nickel	mg/kg	9.67	12.3 J	13.2 J	23.8 J	8.69	18.0 J	7.67 J	12.4	11.7 J	12.6 J	15.7 J	14.1	9.62 J	15.3	27.5 J	17.0 J
Potassium	mg/kg	3210 J	3350 J	3850 J	3500 J	3720 J	2620 J	2400 J	2690 J	2130 J	1710 J	1860 J	3750 J	1710 J	3990 J	2440 J	2890 J
Silver	mg/kg	0.0631 J	0.0215 J	0.0232 J	0.0336 J	0.0286 J	0.0446 J	0.0270 J	0.0383 J	0.0475 J	0.0230 J	0.0801 J	0.0456 J	0.0208 J	0.0352 J	0.193	0.0691 J
Sodium	mg/kg	81.2 J	90.9 J	80.2 J	133	95.3 J	474	202	88.2 J	843	1130	1160	117	297	107 J	646	123
Strontium	mg/kg	20.7	18.1	16.9	22.3	19.4	27.9	35.3	22.9	23.9	29.0	40.4	33.7	22.7	30.6	61.0	43.9
Thallium	mg/kg	0.217 J	0.288 J	0.330 J	0.657 J	0.247 J	0.392 J	0.189 J	0.227 J	0.256 J	0.304 J	0.297 J	0.332 J	0.291 J	0.324 J	0.478 J	0.334 J
Tin	mg/kg	10.6 U	10.5 U	10.8 U	11.0 U	10.7 U	10.8 U	9.90 U	11.1 U	10.5 U	11.2 U	11.2 U	11.2 U	10.2 U	11.4 U	10.6 U	10.8 U
Titanium	mg/kg	1410	1200	1250	1610	1540	1400	1040	1390	1350	1340	1360	1530	1210	1560	1570	1260
Antimony	mg/kg	0.167 J	0.210 UJ	0.216 UJ	0.391	0.130 J	0.0903 J	0.116 J	0.378 J	0.216 UJ	0.107 J	0.0713 J	0.166 J	0.201 UJ	0.117 J	0.271 UJ	0.284 J
Arsenic	mg/kg	3.45 J	3.78 J	2.70 J	12.5 J	3.99 J	5.46 J	2.41 J	3.80 J	6.24 J	6.94 J	5.05 J	5.29 J	4.90 J	4.80 J	16.7 J	6.59
Beryllium	mg/kg	0.448	0.520	0.570	0.913 J	0.473	0.892	0.353	0.498	0.610	0.884	0.772	0.659	0.579	0.633	1.36	0.742
Barium	mg/kg	90.5	121 J	143 J	183 J	84.9	148 J	102 J	89.5	92.3 J	111 J	101 J	122	138 J	119	211 J	147 J
Boron	mg/kg	2.80 J	3.98 J	3.71 J	0.988 J	2.81 J	5.28 J	3.45 J	2.85 J	2.51 J	3.08 J	4.07 J	5.53 J	1.02 J	6.66	3.53 J	3.14 J
Cadmium	mg/kg	0.197	0.195	0.211	0.220 UJ	0.164	0.178 J	0.122 J	0.309	0.108 U	0.0444 J	0.0541 J	0.313	0.0557 J	0.325	0.172	0.486 J
Chromium	mg/kg	15.6	20.4 J	21.6 J	37.4 J	15.3	27.6 J	12.5 J	20.3	24.8 J	25.8 J	27.1 J	23.2	15.9 J	27.0	41.3 J	27.1 J
Cobalt	mg/kg	4.99	6.26	7.12	11.7 J	4.72	9.15 J	4.76 J	6.15	7.44	4.55 J	8.17 J	8.43	6.11	7.40	12.3	7.73
Copper	mg/kg	9.25 J	11.4 J	13.4 J	19.2 J	16.0 J	11.9 J	10.3 J	9.22 J	10.5 J	10.4 J	9.94 J	14.1 J	5.78 J	12.7 J	24.2 J	36.5 J
Vanadium	mg/kg	32.1 J	36.0 J	40.0 J	71.0 J	30.5 J	57.2	32.9	49.1 J	47.2 J	50.9	62.5	45.7 J	34.7 J	47.5 J	75.1 J	51.4
Zinc	mg/kg	72.1 J	62.8	80.7	119 J	68.5 J	72.6 J	47.3 J	89.7 J	53.1	52.6 J	57.5 J	67.3 J	53.6	70.4 J	103	161 J
Zirconium	mg/kg	4.88 J	3.19 J	2.07 J	5.52 U	3.52 J	4.59 J	3.58 J	3.08 J	3.35 J	4.16 J	5.41 J	5.96	4.32 J	5.29 J	6.01	3.12 J
Calcium	mg/kg	3590	2040	2100	4230	3150	3060 J	10200 J	2730	2820	3570 J	3950 J	5370	2640	5330	13400	3720 J
Phosphorus	mg/kg	520 J	521	574	537 J	368 J	182 J	488 J	298 J	327	150 J	76.7 J	335 J	225	301 J	452	353 J
Selenium	mg/kg	0.116 J	0.159 J	0.164 J	0.268 J	0.0880 J	0.121 J	0.0788 J	0.0920 J	0.433 U	0.0648 J	0.0534 J	0.152 J	0.123 J	0.128 J	0.272 J	0.376 J
Chromium VI	mg/kg	1.3 U	0.40 J	0.31 J	1.1 U	1.1 U	1.1 U	1.0 U	1.1 U	1.1 U	1.1	1.2 U	1.1 U	2.5 J	1.2 U	1.1 U	1.1 U

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

Appendix A2
Metals and Inorganics - Validated Data
HSA-5C

Sample Name		SL-060-SA5C-SS-0.0-0.5	SL-060-SA5C-SB-4.0-5.0	SL-060-SA5C-SB-9.0-10.0	SL-060-SA5C-SB-10.0-11.0	SL-061-SA5C-SS-0.0-0.5	SL-061-SA5C-SB-4.0-5.0	SL-061-SA5C-SB-9.0-10.0	SL-062-SA5C-SS-0.0-0.5	SL-062-SA5C-SB-2.5-3.5	SL-063-SA5C-SB-4.0-5.0	SL-064-SA5C-SB-4.0-5.0	SL-065-SA5C-SS-0.0-0.5	SL-065-SA5C-SB-2.5-3.5	SL-066-SA5C-SS-0.0-0.5	SL-066-SA5C-SB-3.0-4.0	SL-067-SA5C-SS-0.0-0.5
Sample Date		10/22/2010	11/23/2010	11/23/2010	12/14/2010	10/22/2010	11/24/2010	11/24/2010	10/22/2010	11/23/2010	11/24/2010	11/24/2010	10/22/2010	11/23/2010	10/22/2010	11/22/2010	10/21/2010
SDG		DE003	DE022	DE022	DE039	DE003	DE023	DE023	DE003	DE022	DE023	DE023	DE003	DE022	DE003	DE021	DX002
Start Depth		0	4	9	10	0	4	9	0	2.5	4	4	0	2.5	0	3	0
End Depth		0.5	5	10	11	0.5	5	10	0.5	3.5	5	5	0.5	3.5	0.5	4	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Perchlorate (314.0)	ug/kg	32.4 U	32.1 U	33.3 U	34.4 U	32.6 U	33.1 U	30.9 U	34.5 U	32.8 U	33.6 U	34.6 U	28.4 J	31.3 U	34.8 U	32.3 U	33.1 U
Perchlorate (6850)	ug/kg	--	--	--	--	5.4 U	--	--	--	--	--	--	--	--	--	--	--
Percent Moisture	%	7.3	6.5	10	12.9	8.1	9.5	2.9	13.0	8.5	10.6	13.3	11.7	4.3	13.9	7.2	9.4
pH	pH unit	7.20	6.01	5.46	7.41	7.50	8.58	8.40	7.51	7.93	7.66	8.75	7.39	7.39	7.74	8.27	7.67
Hydrazine	ng/g	--	2.1 U	2.2 U	--	--	2.2 U	2.1 UJ	--	--	--	2.3 U	--	--	--	2.2 U	--
Methylhydrazine	ng/g	--	5.3 U	5.6 U	--	--	5.5 U	5.1 U	--	--	--	5.8 U	--	--	--	5.4 U	--
1,1-Dimethylhydrazine	ng/g	--	5.3 U	5.6 U	--	--	5.5 U	5.1 U	--	--	--	5.8 U	--	--	--	5.4 U	--

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

Appendix A2
Metals and Inorganics - Validated Data
HSA-5C

Sample Name		SL-067-SA5C-SB-3.0-4.0	SL-068-SA5C-SS-0.0-0.5	SL-068-SA5C-SB-3.5-4.5	SL-070-SA5C-SB-4.0-5.0	SL-070-SA5C-SB-9.0-10.0	SL-071-SA5C-SB-4.0-5.0	SL-071-SA5C-SB-9.0-10.0	SL-072-SA5C-SS-0.0-0.5	SL-072-SA5C-SB-4.0-5.0	SL-072-SA5C-SB-7.5-8.5	SL-073-SA5C-SS-0.0-0.5	SL-074-SA5C-SB-4.0-5.0	SL-074-SA5C-SB-8.0-9.0	SL-075-SA5C-SB-4.0-5.0	SL-075-SA5C-SB-9.0-10.0	SL-076-SA5C-SS-0.0-0.5
Sample Date		11/18/2010	10/21/2010	11/18/2010	11/30/2010	11/30/2010	11/29/2010	11/29/2010	10/21/2010	11/17/2010	11/17/2010	10/27/2010	11/30/2010	11/30/2010	11/29/2010	11/29/2010	10/22/2010
SDG		DE019	DX002	DE019	DE025	DE025	DX011	DX011	DX002	DE018	DE018	DE005	DE025	DE025	DX011	DX011	DE003
Start Depth		3	0	3.5	4	9	4	9	0	4	7.5	0	4	8	4	9	0
End Depth		4	0.5	4.5	5	10	5	10	0.5	5	8.5	0.5	5	9	5	10	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Nitrate	mg/kg	2.3	--	1.2 J	--	--	11.8	7.4	--	1.5 J	4.7	--	--	--	--	--	--
Fluoride	mg/kg	7.1	3.8 J	1.4	3.2	5.3	3.0 J	14.1 J	2.4 J	4.9 J	5.1 J	0.93 J	1.5	13.4	3.0	10.9 J	3.1
Cyanide	mg/kg	0.53 U	--	0.54 U	--	--	0.59 U	0.56 U	--	0.53 U	0.55 U	--	--	--	--	--	--
Aluminum	mg/kg	29700	15100	25600	13800	30100	40600	29900	12200	20500	16400	14100	33600	22500	35200	29800	27000
Iron	mg/kg	35600	20200	26600	21400	28800	35400	45300	24800	22500	19700	19900	33700	22700	32700	28900	25300
Lead	mg/kg	10.5 J	32.7 J	10.3 J	9.54 J	7.41 J	8.36 J	10.0 J	5.85 J	7.89	6.25	11.1 J	9.51 J	5.15 J	9.51 J	6.76 J	11.0 J
Lithium	mg/kg	41.5 J	21.1	28.1 J	21.5	28.2	27.4	45.2	15.9	20.0	20.5	22.7	26.0	21.6	27.2	28.9	21.0
Magnesium	mg/kg	6680	3670	5440	5850	6120	6840	10000	6130	4210	3400	5080	7350	5130	6880	6330	5300
Manganese	mg/kg	652	310	305	290	286	642	321	336	160 J	169 J	300	719	323	418	414	438 J
Mercury	mg/kg	0.107 U	0.0183 J	0.102 U	0.0438 J	0.0088 J	0.114 U	0.107 U	0.0068 J	0.0068 J	0.0032 J	0.118	0.115 U	0.109 U	0.118 U	0.0050 J	0.107 U
Molybdenum	mg/kg	0.154	2.40 J	0.424	0.871 J	0.399 J	0.407 J	0.222 J	1.13 J	0.246 J	0.395 J	0.466	0.415 J	0.217 J	0.432 J	0.267 J	0.571
Nickel	mg/kg	21.8 J	13.8 J	20.8 J	15.0 J	19.2 J	22.8 J	24.9 J	8.61 J	14.2 J	12.3 J	10.8 J	28.1 J	14.8 J	24.6 J	22.9 J	14.6
Potassium	mg/kg	1980 J	3200 J	1950 J	2080 J	2770 J	4000 J	2450 J	5370 J	1690 J	1560 J	4270	3770 J	2280 J	3590 J	2950 J	3600 J
Silver	mg/kg	0.111	0.0401 J	0.0395 J	0.0599 J	0.0653 J	0.0835 J	0.0514 J	0.0271 J	0.0476 J	0.0489 J	0.0237 J	0.0690 J	0.0351 J	0.0756 J	0.104 J	0.0585 J
Sodium	mg/kg	263	91.9 J	122	99.8 J	174	313	777	217	193	244	89.4 J	414	599	433	622	121
Strontium	mg/kg	40.3	17.8	32.7	16.4	42.9	43.0	71.5	22.2	30.8	25.3	16.4	43.9	42.7	43.4	68.6	34.7
Thallium	mg/kg	0.337 J	0.328 J	0.370 J	0.308 J	0.381 J	0.398 J	0.373 J	0.300 J	0.271	0.211	0.253	0.454 J	0.296 J	0.455 J	0.408 J	0.296 J
Tin	mg/kg	10.6 U	10.3 U	10.7 U	10.9 U	11.1 U	11.6 U	11.2 U	10.6 U	10.5 U	10.8 U	10.2 U	11.6 U	11.2 U	11.6 U	11.4 U	11.1 U
Titanium	mg/kg	1230	1200	1260	1020	1510	1340	1290	1780	1060	1010	1380	1280	1170	1300	1400	1770
Antimony	mg/kg	0.210 UJ	0.240 J	0.258 UJ	0.0688 J	0.100 J	0.110 J	0.146 J	0.103 J	0.0975 J	0.155 J	0.182 J	0.147 J	0.0787 J	0.123 J	0.0929 J	0.131 J
Arsenic	mg/kg	7.59 J	5.95	8.66 J	9.06 J	9.10 J	7.84 J	11.7 J	2.48	6.22 J	5.62 J	3.47	7.92 J	7.24 J	7.85 J	8.91 J	5.32 J
Beryllium	mg/kg	1.23	0.667	0.948	0.781 J	1.06 J	1.20 J	1.60 J	0.227	0.664 J	0.569 J	0.420	1.15 J	0.790 J	1.18 J	1.10 J	0.725
Barium	mg/kg	262 J	127 J	163 J	97.4 J	176 J	198 J	153 J	147 J	171 J	84.3 J	93.4	182 J	110 J	186 J	187 J	125
Boron	mg/kg	3.28 J	2.05 J	1.95 J	7.90	7.38	5.73 J	17.3 J	1.38 J	9.64	8.05	1.52 J	37.5	7.76	7.90	5.36 J	5.95
Cadmium	mg/kg	0.0987 J	0.224 J	0.155	0.198 UJ	0.183 UJ	0.272 J	0.153 J	0.126 J	0.0555 J	0.0549 J	0.217	0.489 J	0.249 J	0.354 J	0.430 J	0.278
Chromium	mg/kg	34.9 J	24.7 J	35.7 J	26.5 J	35.0 J	44.6 J	42.5 J	13.4 J	25.7 J	20.8 J	16.1 J	43.5 J	26.6 J	43.6 J	41.4 J	24.9
Cobalt	mg/kg	7.36	6.80	12.1	7.33	10.5	8.77	11.3	7.23	7.49 J	5.44 J	4.94	13.0	6.37	11.3	9.53	7.16
Copper	mg/kg	12.7 J	15.7 J	12.8 J	10.1 J	13.7 J	14.1 J	20.2 J	27.0 J	9.73 J	9.04 J	8.00	16.4 J	10.7 J	15.5 J	16.3 J	12.8 J
Vanadium	mg/kg	53.8 J	43.7	63.8 J	57.5 J	69.8 J	81.8 J	72.1 J	55.8	47.7 J	38.5 J	31.9	81.2 J	52.7 J	82.2 J	76.2 J	47.8 J
Zinc	mg/kg	75.8	81.6 J	73.2	75.6 J	78.2 J	88.1 J	95.3 J	86.0 J	49.9 J	48.6 J	88.9 J	97.2 J	62.0 J	87.4 J	87.6 J	74.0 J
Zirconium	mg/kg	4.78 J	2.75 J	4.81 J	3.54 J	6.21	8.14	6.73	2.07 J	3.93 J	3.01 J	2.77 J	7.49	5.36 J	7.24	6.28	6.07
Calcium	mg/kg	4700	2370 J	3460	3450 J	16400 J	5120 J	36200 J	3640 J	3070	2850	3130	5840 J	35300 J	5450 J	45600 J	5090
Phosphorus	mg/kg	118	336 J	127	370	145	187	508	680 J	88.8 J	199 J	542	196	232	188	213	209 J
Selenium	mg/kg	0.183 J	0.267 J	0.132 J	0.396 J	0.0808 J	0.247 J	0.111 J	0.134 J	0.0895 J	0.0645 J	0.145 J	0.214 J	0.0565 J	0.179 J	0.0516 J	0.127 J
Chromium VI	mg/kg	0.60 J	1.7	0.27 J	1.1 U	1.2 U	0.60 J	1.1 U	1.1 U	0.24 J	0.36 J	0.44 J	0.43 J	1.1 U	0.51 J	1.2 U	1.1 U

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

Appendix A2
Metals and Inorganics - Validated Data
HSA-5C

Sample Name		SL-067-SA5C-SB-3.0-4.0	SL-068-SA5C-SS-0.0-0.5	SL-068-SA5C-SB-3.5-4.5	SL-070-SA5C-SB-4.0-5.0	SL-070-SA5C-SB-9.0-10.0	SL-071-SA5C-SB-4.0-5.0	SL-071-SA5C-SB-9.0-10.0	SL-072-SA5C-SS-0.0-0.5	SL-072-SA5C-SB-4.0-5.0	SL-072-SA5C-SB-7.5-8.5	SL-073-SA5C-SS-0.0-0.5	SL-074-SA5C-SB-4.0-5.0	SL-074-SA5C-SB-8.0-9.0	SL-075-SA5C-SB-4.0-5.0	SL-075-SA5C-SB-9.0-10.0	SL-076-SA5C-SS-0.0-0.5
Sample Date		11/18/2010	10/21/2010	11/18/2010	11/30/2010	11/30/2010	11/29/2010	11/29/2010	10/21/2010	11/17/2010	11/17/2010	10/27/2010	11/30/2010	11/30/2010	11/29/2010	11/29/2010	10/22/2010
SDG		DE019	DX002	DE019	DE025	DE025	DX011	DX011	DX002	DE018	DE018	DE005	DE025	DE025	DX011	DX011	DE003
Start Depth		3	0	3.5	4	9	4	9	0	4	7.5	0	4	8	4	9	0
End Depth		4	0.5	4.5	5	10	5	10	0.5	5	8.5	0.5	5	9	5	10	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Perchlorate (314.0)	ug/kg	32.1 U	32.1 U	32.4 U	34.0 U	34.6 U	36.2 U	33.8 U	32.3 U	32.4 U	33.4 U	32.1 U	35.8 U	34.0 U	35.8 U	34.9 U	34.4 U
Perchlorate (6850)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Percent Moisture	%	6.5	6.4	7.5	11.7	13.4	17.2	11.3	7.2	7.3	10.2	6.5	16.2	11.8	16.2	14.1	12.8
pH	pH unit	7.65	6.39	5.85	8.72	7.97	7.85	8.30	6.90	7.84	8.23	6.94	7.25	8.28	7.47	8.44	7.71
Hydrazine	ng/g	2.1 UJ	--	2.2 U	--	--	2.4 U	2.3 U	--	2.2 U	2.2 U	--	--	--	--	--	--
Methylhydrazine	ng/g	5.3 U	--	5.4 U	--	--	6.0 U	5.6 U	--	5.4 U	5.6 U	--	--	--	--	--	--
1,1-Dimethylhydrazine	ng/g	5.3 U	--	5.4 U	--	--	6.0 U	5.6 U	--	5.4 U	5.6 U	--	--	--	--	--	--

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

Appendix A2
Metals and Inorganics - Validated Data
HSA-5C

Sample Name		SL-076-SA5C-SB-3.0-4.0	SL-077-SA5C-SS-0.0-0.5	SL-077-SA5C-SB-3.0-4.0	SL-078-SA5C-SS-0.0-0.5	SL-078-SA5C-SB-4.0-5.0	SL-079-SA5C-SS-0.0-0.5	SL-079-SA5C-SB-4.0-5.0	SL-079-SA5C-SB-8.5-9.5	SL-080-SA5C-SS-0.0-0.5	SL-080-SA5C-SB-4.0-5.0	SL-080-SA5C-SB-7.5-8.5	SL-081-SA5C-SB-3.0-4.0	SL-083-SA5C-SB-2.5-3.5	SL-085-SA5C-SB-2.5-3.0	SL-086-SA5C-SS-0.0-0.5	SL-086-SA5C-SB-4.0-5.0
Sample Date		11/23/2010	10/22/2010	11/23/2010	10/22/2010	11/22/2010	10/21/2010	11/17/2010	11/17/2010	10/21/2010	11/17/2010	11/17/2010	11/17/2010	11/16/2010	11/16/2010	10/22/2010	11/11/2010
SDG		DE022	DE003	DE022	DE003	DE021	DX002	DE018	DE018	DX002	DE018	DE018	DE018	DE017	DE017	DE003	DE014
Start Depth		3	0	3	0	4	0	4	8.5	0	4	7.5	3	2.5	2.5	0	4
End Depth		4	0.5	4	0.5	5	0.5	5	9.5	0.5	5	8.5	4	3.5	3	0.5	5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Nitrate	mg/kg	1.6 U	--	1.6 U	--	--	--	--	--	--	--	--	--	--	--	--	--
Fluoride	mg/kg	4.7	1.5	3.6	2.5	17.9	2.2 J	6.1 J	5.2 J	1.3 J	4.9	2.7	7.3 J	10.1	12.2	4.2	3.6
Cyanide	mg/kg	0.52 U	--	0.53 U	--	--	--	--	--	--	--	--	--	--	--	--	--
Aluminum	mg/kg	17800	14100	12800	21300	25500	16000	20500	17700	19100	26500	17300	14800	15000	22500	32600	25000
Iron	mg/kg	23500	21900	21900	22200	30100	28200	21800	22300	21200	25400	27400	22000	25700	26500	27000	24100
Lead	mg/kg	6.21 J	6.44 J	5.48 J	19.7 J	10.1 J	15.3 J	9.08	6.15	12.3 J	8.84	11.0	5.65	9.56	12.4	19.8 J	8.09 J
Lithium	mg/kg	28.8 J	13.3	32.0 J	17.2	27.1 J	17.9	18.5	23.0	14.0	23.9	21.4	19.8	32.0	23.2	21.9	19.8
Magnesium	mg/kg	5770	4630	5240	4420	5950	6520	4160	4440	3900	5060	4360	4710	5130	4110	4260	3920
Manganese	mg/kg	250	272 J	330	389 J	232	403	203 J	167 J	450	301 J	1490 J	174 J	542 J	80.4 J	229 J	138 J
Mercury	mg/kg	0.0038 J	0.0222 J	0.0982 U	0.0599 J	0.110 U	0.0083 J	0.0042 J	0.0094 J	0.107 U	0.0089 J	0.107 U	0.102 U	0.105 U	0.118 U	0.110 U	0.108 U
Molybdenum	mg/kg	0.201	0.325	0.281	0.614	0.339	0.798 J	0.532 J	0.374 J	0.871 J	0.566 J	0.847 J	0.379 J	0.478 J	0.524 J	0.515	0.514 J
Nickel	mg/kg	17.1 J	9.01	15.9 J	13.8	17.9 J	13.0 J	13.2 J	13.9 J	16.3 J	12.5 J	22.0 J	11.8 J	20.1 J	32.2 J	12.2	12.0 J
Potassium	mg/kg	1560 J	3410 J	2440 J	3940 J	2300 J	4140 J	2140 J	2820 J	3850 J	2230 J	2440 J	1720 J	2140 J	1130 J	1920 J	1780 J
Silver	mg/kg	0.0966 J	0.0401 J	0.0207 J	0.0480 J	0.0270 J	0.0265 J	0.0631 J	0.0479 J	0.0289 J	0.0487 J	0.0392 J	0.105 U	0.0149 J	0.0697 J	0.0478 J	0.0767 J
Sodium	mg/kg	224	272	198	96.5 J	713	319	227	332	93.8 J	339	213	384	583	825	243	216 J
Strontium	mg/kg	29.0	33.0	23.0	28.1	37.8	27.6	28.2	28.7	28.1	37.0	26.3	29.3	26.1	44.2	33.0	30.2
Thallium	mg/kg	0.265 J	0.170 J	0.452 J	0.246 J	0.384 J	0.329 J	0.301	0.329	0.374 J	0.431	0.330	0.176	0.267	0.437	0.285 J	0.281
Tin	mg/kg	10.5 U	10.7 U	10.1 U	10.6 U	10.6 U	10.7 U	10.7 U	10.9 U	10.6 U	10.9 U	10.5 U	10.4 U	10.6 U	11.8 U	11.4 U	2.40 J
Titanium	mg/kg	1130	1430	1570	1510	1400	1380	1050	1210	1290	1160	1070	1120	1110	1230	1520	1210
Antimony	mg/kg	0.211 UJ	0.384 J	0.222 UJ	0.211 J	0.215 UJ	0.249 J	0.170 J	0.220 UJ	0.174 J	0.264 J	0.213 J	0.167 J	0.134 J	0.170 J	0.123 J	0.209 UJ
Arsenic	mg/kg	5.51 J	3.24 J	8.90 J	4.95 J	8.83 J	3.84	7.40 J	4.22 J	5.14	6.97 J	10.4 J	10.3 J	7.27 J	8.86 J	6.73 J	5.82 J
Beryllium	mg/kg	0.591	0.374	0.540	0.622	1.09	0.452	0.714 J	0.545 J	0.694	1.00 J	0.633 J	0.702 J	0.845 J	0.870 J	0.784	0.782 J
Barium	mg/kg	122 J	91.5	135 J	107	201 J	170 J	148 J	101 J	140 J	122 J	122 J	116 J	74.2 J	197 J	110	94.9 J
Boron	mg/kg	3.51 J	2.29 J	2.92 J	5.35	3.09 J	2.11 J	9.80	8.95	4.59 J	10.9	9.73	8.28	9.75	10.3	3.39 J	6.67
Cadmium	mg/kg	0.158	0.158	0.0670 J	0.515	0.0682 J	0.422 J	0.121 J	0.0404 J	0.271 J	0.165 J	0.142 J	0.0633 J	0.0641 J	0.281 J	0.150	0.0424 J
Chromium	mg/kg	27.8 J	15.6	20.9 J	22.9	32.4 J	20.7 J	25.3 J	24.5 J	25.2 J	19.4 J	27.4 J	21.9 J	23.5 J	35.3 J	26.3	25.0 J
Cobalt	mg/kg	6.14	5.93	8.84	7.58	9.60	7.66	8.96 J	5.70 J	9.28	12.7 J	19.7 J	13.8 J	19.7 J	16.2 J	4.68	4.65 J
Copper	mg/kg	8.84 J	12.3 J	11.1 J	14.6 J	13.9 J	20.8 J	10.8 J	10.3 J	97.1 J	8.98 J	12.8 J	9.41 J	14.8 J	14.3 J	7.88 J	6.85 J
Vanadium	mg/kg	45.1 J	41.7 J	44.7 J	42.1 J	56.4 J	50.1	53.3 J	38.4 J	49.8	42.2 J	55.3 J	46.0 J	36.9 J	68.4 J	53.0 J	39.1
Zinc	mg/kg	60.8	47.7 J	97.6	68.6 J	59.5	78.0 J	52.1 J	58.6 J	110 J	44.9 J	70.7 J	64.7 J	73.9 J	73.1 J	66.2 J	44.2 J
Zirconium	mg/kg	4.12 J	2.51 J	3.27 J	5.01 J	5.82	2.07 J	3.93 J	3.92 J	3.56 J	5.39 J	3.72 J	2.97 J	2.84 J	3.74 J	4.49 J	3.00 J
Calcium	mg/kg	4540	4430	3270	3930	5170	4720 J	3050	3510	3770 J	3900	3350	4370	3520	8560	3250	2660 J
Phosphorus	mg/kg	241	461 J	353	238 J	123	527 J	169 J	223 J	246 J	137 J	308 J	280 J	452 J	120 J	151 J	133
Selenium	mg/kg	0.423 U	0.0579 J	0.0599 J	0.128 J	0.0726 J	0.121 J	0.0820 J	0.0518 J	0.166 J	0.100 J	0.0841 J	0.228 J	0.0639 J	0.0845 J	0.294 J	0.188 J
Chromium VI	mg/kg	0.38 J	1.1 U	1.1 U	1.6	1.1 U	1.1 U	0.23 J	1.0 J	1.1 U	0.35 J	0.25 J	1.1 U	0.26 J	0.38 J	1.2 U	0.33 J

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

Appendix A2
Metals and Inorganics - Validated Data
HSA-5C

Sample Name		SL-076-SA5C-SB-3.0-4.0	SL-077-SA5C-SS-0.0-0.5	SL-077-SA5C-SB-3.0-4.0	SL-078-SA5C-SS-0.0-0.5	SL-078-SA5C-SB-4.0-5.0	SL-079-SA5C-SS-0.0-0.5	SL-079-SA5C-SB-4.0-5.0	SL-079-SA5C-SB-8.5-9.5	SL-080-SA5C-SS-0.0-0.5	SL-080-SA5C-SB-4.0-5.0	SL-080-SA5C-SB-7.5-8.5	SL-081-SA5C-SB-3.0-4.0	SL-083-SA5C-SB-2.5-3.5	SL-085-SA5C-SB-2.5-3.0	SL-086-SA5C-SS-0.0-0.5	SL-086-SA5C-SB-4.0-5.0
Sample Date		11/23/2010	10/22/2010	11/23/2010	10/22/2010	11/22/2010	10/21/2010	11/17/2010	11/17/2010	10/21/2010	11/17/2010	11/17/2010	11/17/2010	11/16/2010	11/16/2010	10/22/2010	11/11/2010
SDG		DE022	DE003	DE022	DE003	DE021	DX002	DE018	DE018	DX002	DE018	DE018	DE018	DE017	DE017	DE003	DE014
Start Depth		3	0	3	0	4	0	4	8.5	0	4	7.5	3	2.5	2.5	0	4
End Depth		4	0.5	4	0.5	5	0.5	5	9.5	0.5	5	8.5	4	3.5	3	0.5	5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Perchlorate (314.0)	ug/kg	31.7 U	32.8 U	9.7 J	32.9 U	33.2 U	32.4 U	32.1 U	33.4 U	32.5 U	33.1 U	32.6 U	31.9 U	32.4 U	35.7 U	15.8 J	32.9 U
Perchlorate (6850)	ug/kg	--	--	5.3 U	--	5.5 U	5.4 U	--	5.6 U	--	--	--	--	--	5.9 U	--	--
Percent Moisture	%	5.4	8.4	5.0	8.9	9.6	7.3	6.6	10.1	7.7	9.5	7.9	5.9	7.4	15.9	13.4	8.7
pH	pH unit	7.52	7.00	7.65	7.17	7.97	7.40	7.80	8.04	7.06	7.90	7.26	8.34	8.28	8.98	7.93	6.92
Hydrazine	ng/g	2.1 U	--	2.1 U	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylhydrazine	ng/g	5.3 U	--	5.3 U	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dimethylhydrazine	ng/g	5.3 U	--	5.3 U	--	--	--	--	--	--	--	--	--	--	--	--	--

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

Appendix A2
Metals and Inorganics - Validated Data
HSA-5C

Sample Name		SL-088-SA5C-SS-0.0-0.5	SL-088-SA5C-SB-4.0-5.0	SL-088-SA5C-SB-8.5-9.5	SL-090-SA5C-SS-0.0-0.5	SL-090-SA5C-SB-4.0-5.0	SL-093-SA5C-SB-4.0-5.0	SL-093-SA5C-SB-8.0-9.0	SL-094-SA5C-SB-4.0-5.0	SL-094-SA5C-SB-8.5-9.5	SL-095-SA5C-SS-0.0-0.5	SL-096-SA5C-SS-0.0-0.5	SL-096-SA5C-SB-4.0-5.0	SL-096-SA5C-SB-9.0-10.0	SL-097-SA5C-SS-0.0-0.5	SL-097-SA5C-SB-4.0-5.0	SL-097-SA5C-SB-9.0-10.0
Sample Date		11/15/2010	11/12/2010	11/12/2010	10/22/2010	11/15/2010	11/15/2010	11/15/2010	11/15/2010	11/15/2010	10/22/2010	10/22/2010	11/12/2010	11/12/2010	01/04/2011	11/12/2010	11/12/2010
SDG		DE016	DE015	DE015	DE003	DE016	DE016	DE016	DE016	DE016	DE003	DE003	DE015	DE015	DE052	DE015	DE015
Start Depth		0	4	8.5	0	4	4	8	4	8.5	0	0	4	9	0	4	9
End Depth		0.5	5	9.5	0.5	5	5	9	5	9.5	0.5	0.5	5	10	0.5	5	10
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Nitrate	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Fluoride	mg/kg	5.1	5.2 J	4.6 J	2.8	5.2	2.7	2.8	13.2	8.6	7.7 J	2.1 J	13.9	3.6	2.3 J	14.5	5.7
Cyanide	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aluminum	mg/kg	18600	16900	18300	18300	20200	26200	18900	26400	26100	31200	18200	26200	17100	25900	21400	23200
Iron	mg/kg	22300	21100	24700	26200	22700	26900	21400	28100	28500	27800	21900	28100	21400	27000	19700	21700
Lead	mg/kg	15.3	6.43 J	6.75 J	514 J	7.64	10.4	8.90	9.85	9.63	9.18 J	9.05 J	8.35 J	9.15 J	10.2 J	7.87 J	8.69 J
Lithium	mg/kg	19.6	20.1	22.8	18.7	22.8	25.0	22.9	25.7	33.7	23.2	17.0	27.8	22.6	25.0	21.7	29.2
Magnesium	mg/kg	4490	4450	4400	4510	4410	5540	4740	6320	6160	4970	4600	5650	4220	4870	4300	4860
Manganese	mg/kg	243 J	179 J	226 J	330 J	219 J	449 J	211 J	556 J	242 J	709 J	349 J	231 J	276 J	640 J	107 J	167 J
Mercury	mg/kg	0.110 U	0.118 U	0.0079 J	0.0141 J	0.114 U	0.0085 J	0.0520 J	0.111 U	0.111 U	0.108 U	0.0071 J	0.0107 J	0.0831 J	0.118 U	0.0051 J	0.105 U
Molybdenum	mg/kg	0.804 J	0.386 J	0.215 J	2.32	0.423 J	0.483 J	1.47 J	0.424 J	0.505 J	0.578	0.520	0.269 J	0.604 J	0.680 J	0.175 J	0.405 J
Nickel	mg/kg	15.5 J	13.3 J	9.89 J	21.3	20.5 J	19.8 J	22.5 J	18.3 J	17.9 J	15.5	12.1	16.5 J	19.4 J	19.8	15.3 J	19.1 J
Potassium	mg/kg	2760 J	1850 J	1700 J	3050 J	1880 J	1980 J	1570 J	2580 J	3440 J	2440 J	2950 J	1570 J	2400 J	2270 J	1430 J	2720 J
Silver	mg/kg	0.0404 J	0.0150 J	0.113 U	0.136	0.0659 J	0.0637 J	0.108 U	0.0756 J	0.0662 J	0.0469 J	0.0401 J	0.0600 J	0.0818 J	0.0606 J	0.0532 J	0.0510 J
Sodium	mg/kg	180	196 J	205 J	154	127	195	202	670	495	619	152	546 J	444 J	265	430 J	390 J
Strontium	mg/kg	28.3	27.3	34.1	59.7	33.2	37.1	71.7	46.0	39.6	40.7	27.1	47.7	27.7	36.8	45.3	32.7
Thallium	mg/kg	0.355	0.292	0.278	0.152 J	0.309	0.397	0.259	0.335	0.375	0.293 J	0.254 J	0.341	0.339	0.396	0.374	0.355
Tin	mg/kg	11.3 U	2.45 J	2.43 J	11.3 U	11.3 U	11.3 U	10.8 U	11.3 U	11.4 U	11.3 U	10.6 U	2.51 J	2.25 J	11.9 U	2.18 J	2.50 J
Titanium	mg/kg	1150	1110	1060	1490	1050	1340	799	1290	1320	1480	1570	1090	1170	1410	873	1180
Antimony	mg/kg	0.336 J	0.237 UJ	0.227 UJ	9.42 J	0.175 J	0.161 J	0.180 J	0.206 J	0.161 J	0.179 J	0.202 J	0.221 UJ	0.212 UJ	0.270 UJ	0.218 UJ	0.225 UJ
Arsenic	mg/kg	7.99 J	5.60 J	5.07 J	5.28 J	6.78 J	10.0 J	12.4 J	7.58 J	9.19 J	4.84 J	3.96 J	5.60 J	6.68 J	9.17 J	5.59 J	7.71 J
Beryllium	mg/kg	0.647 J	0.741 J	0.586 J	0.523	0.705 J	0.914 J	0.726 J	0.730 J	0.862 J	0.756	0.560	1.16 J	0.736 J	0.971 J	0.842 J	0.894 J
Barium	mg/kg	167 J	107 J	67.3 J	286	128 J	205 J	111 J	128 J	88.2 J	143	115	131 J	124 J	164	138 J	101 J
Boron	mg/kg	9.63	5.88	6.25	4.29 J	9.57	11.1	8.44	12.8	12.1	4.61 J	3.73 J	7.24	7.24	5.94 U	5.72	7.06
Cadmium	mg/kg	0.742 J	0.0669 J	0.113 U	2.78	0.118 J	0.117 J	0.115 J	0.189 J	0.143 J	0.207	0.604	0.0733 J	0.157	0.422	0.126	0.0891 J
Chromium	mg/kg	25.3 J	23.8 J	20.1 J	37.1	34.3 J	35.0 J	36.8 J	32.7 J	31.4 J	28.7	19.3	32.2 J	28.4 J	36.1 J	28.2 J	29.7 J
Cobalt	mg/kg	17.6 J	9.53 J	11.9 J	6.30	6.21 J	8.76 J	7.71 J	7.85 J	7.60 J	8.46	6.66	9.99 J	9.03 J	7.09 J	5.95 J	8.10 J
Copper	mg/kg	23.6 J	10.9 J	10.4 J	25.2 J	11.8 J	14.2 J	13.2 J	13.0 J	14.7 J	15.3 J	11.1 J	13.2 J	16.1 J	14.4 J	12.8 J	16.8 J
Vanadium	mg/kg	55.9 J	44.5	37.4	37.9 J	45.9 J	68.2 J	50.3 J	60.5 J	56.6 J	46.5 J	39.0 J	38.9	47.4	74.7 J	45.1	45.6
Zinc	mg/kg	145 J	51.2 J	45.6 J	697 J	65.4 J	78.7 J	65.1 J	67.8 J	78.0 J	57.3 J	62.6 J	56.9 J	61.6 J	79.9	51.2 J	66.7 J
Zirconium	mg/kg	3.91 J	3.25 J	2.81 J	7.08	4.12 J	3.82 J	3.63 J	5.60 J	4.98 J	5.40 J	3.70 J	3.90 J	3.58 J	2.40 J	3.40 J	3.69 J
Calcium	mg/kg	3320	2910 J	3740 J	19200	4250	3660	5140	5400	4880	4300	3470	6940 J	3000 J	3840	12100 J	3900 J
Phosphorus	mg/kg	231 J	186	306	453 J	168 J	120 J	279 J	200 J	187 J	178 J	328 J	98.3	223	194 J	111	208
Selenium	mg/kg	0.198 J	0.0655 J	0.453 U	0.227 J	0.0663 J	0.0644 J	0.294 J	0.121 J	0.0695 J	0.242 J	0.110 J	0.443 U	0.0770 J	0.149 J	0.436 U	0.450 U
Chromium VI	mg/kg	1.2	0.41 J	0.46 J	7.1	0.47 J	0.35 J	0.23 J	0.33 J	0.34 J	1.2 U	1.1 U	0.43 J	0.36 J	0.43 J	0.23 J	0.28 J

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

Appendix A2
Metals and Inorganics - Validated Data
HSA-5C

Sample Name		SL-088-SA5C-SS-0.0-0.5	SL-088-SA5C-SB-4.0-5.0	SL-088-SA5C-SB-8.5-9.5	SL-090-SA5C-SS-0.0-0.5	SL-090-SA5C-SB-4.0-5.0	SL-093-SA5C-SB-4.0-5.0	SL-093-SA5C-SB-8.0-9.0	SL-094-SA5C-SB-4.0-5.0	SL-094-SA5C-SB-8.5-9.5	SL-095-SA5C-SS-0.0-0.5	SL-096-SA5C-SS-0.0-0.5	SL-096-SA5C-SB-4.0-5.0	SL-096-SA5C-SB-9.0-10.0	SL-097-SA5C-SS-0.0-0.5	SL-097-SA5C-SB-4.0-5.0	SL-097-SA5C-SB-9.0-10.0
Sample Date		11/15/2010	11/12/2010	11/12/2010	10/22/2010	11/15/2010	11/15/2010	11/15/2010	11/15/2010	11/15/2010	10/22/2010	10/22/2010	11/12/2010	11/12/2010	01/04/2011	11/12/2010	11/12/2010
SDG		DE016	DE015	DE015	DE003	DE016	DE016	DE016	DE016	DE016	DE003	DE003	DE015	DE015	DE052	DE015	DE015
Start Depth		0	4	8.5	0	4	4	8	4	8.5	0	0	4	9	0	4	9
End Depth		0.5	5	9.5	0.5	5	5	9	5	9.5	0.5	0.5	5	10	0.5	5	10
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Perchlorate (314.0)	ug/kg	34.9 U	35.5 U	35.0 U	33.9 U	34.2 U	34.2 U	33.3 U	34.6 U	34.4 U	10.7 J	33.0 U	33.6 U	32.4 U	35.6 U	32.7 U	33.8 U
Perchlorate (6850)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	5.6 U	--	--	--	--
Percent Moisture	%	14.1	15.6	14.3	11.5	12.2	12.4	10.0	13.3	12.9	14.2	9.2	10.6	7.3	15.8	8.3	11.2
pH	pH unit	8.09	7.92	7.97	7.49	8.04	7.68	7.68	7.28	8.43	8.39	7.25	7.43	7.34	6.58	8.24	7.76
Hydrazine	ng/g	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylhydrazine	ng/g	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dimethylhydrazine	ng/g	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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

Appendix A2
Metals and Inorganics - Validated Data
HSA-5C

Sample Name		SL-098-SA5C-SS-0.0-0.5	SL-098-SA5C-SB-4.0-5.0	SL-098-SA5C-SB-9.0-10.0	SL-099-SA5C-SS-0.0-0.5	SL-099-SA5C-SB-4.0-5.0	SL-099-SA5C-SB-9.0-10.0	SL-100-SA5C-SS-0.0-0.5	SL-100-SA5C-SB-4.0-5.0	SL-100-SA5C-SB-8.5-9.5	SL-101-SA5C-SS-0.0-0.5	SL-101-SA5C-SB-4.0-5.0	SL-102-SA5C-SB-4.0-5.0	SL-103-SA5C-SS-0.0-0.5	SL-103-SA5C-SB-4.0-5.0	SL-103-SA5C-SB-9.0-10.0	SL-104-SA5C-SS-0.0-0.5
Sample Date		10/21/2010	11/09/2010	11/09/2010	10/21/2010	11/09/2010	11/09/2010	10/21/2010	11/11/2010	11/11/2010	10/21/2010	11/11/2010	11/09/2010	10/21/2010	11/10/2010	11/10/2010	10/21/2010
SDG		DE001	DE012	DE012	DE001	DE012	DE012	DE001	DE014	DE014	DE001	DE014	DE012	DE001	DE013	DE013	DE001
Start Depth		0	4	9	0	4	9	0	4	8.5	0	4	4	0	4	9	0
End Depth		0.5	5	10	0.5	5	10	0.5	5	9.5	0.5	5	5	0.5	5	10	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Nitrate	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Fluoride	mg/kg	7.0 J	10.3	9.8	3.5 J	10.9	5.3	1.1 J	2.5	4.5	1.4 J	2.6	12.4	1.2 J	6.3 J	9.2 J	1.2
Cyanide	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aluminum	mg/kg	22900	29000	30800	16000	27100	18400	18100	26700	19200	18200	32400	27300	17300	24200	25700	15700
Iron	mg/kg	22600 J	25800	26900	18000 J	22000	19500	21200 J	34300	36400	19700 J	41800	23000	18200 J	27200	24600	18700 J
Lead	mg/kg	8.48 J	13.5 J	9.02 J	9.99 J	10.1 J	4.58 J	8.81 J	7.91 J	9.57 J	10.2 J	25.2 J	8.12 J	10.3 J	5.54 J	8.18 J	8.16 J
Lithium	mg/kg	21.4	27.4	29.7	12.9	24.3	24.4	16.9	27.5	28.9	15.3	52.0	25.9	14.9	25.0	23.2	12.0
Magnesium	mg/kg	4180	5240	5630	2840	4720	4400	3880	5910	4780	3490	8840	4830	3300	4960	4810	2830
Manganese	mg/kg	228 J	219 J	195 J	332 J	303 J	212 J	402 J	747 J	338 J	402 J	383 J	349 J	361 J	167 J	190 J	364 J
Mercury	mg/kg	0.0623 J	0.106 U	0.0133 J	0.191	0.0056 J	0.0207 J	0.0857 J	0.0092 J	0.0126 J	0.101 U	0.0209 J	0.0073 J	0.0600 J	0.0092 J	0.0091 J	1.01
Molybdenum	mg/kg	0.565 J	1.00	0.768	0.829 J	0.853	0.197	0.678 J	0.376 J	0.403 J	0.879 J	0.191 J	0.685	0.876 J	0.452 J	0.451 J	0.785 J
Nickel	mg/kg	13.8	19.7	17.2	14.8	19.9	9.44	14.4	17.4 J	15.9 J	16.5	29.1 J	20.5	16.4	15.1 J	15.0 J	11.7
Potassium	mg/kg	2100 J	2900	3120	2430 J	2550	1680	3090 J	2130 J	2020 J	2880 J	1780 J	2550	2670 J	2290 J	2520 J	2650 J
Silver	mg/kg	0.107 U	0.0425 J	0.0451 J	0.109 U	0.0600 J	0.0377 J	0.0485 J	0.0537 J	0.0833 J	0.0433 J	0.114	0.0816 J	0.106 U	0.0316 J	0.0560 J	0.108 U
Sodium	mg/kg	249	521	557	106 J	691	653	161	224 J	181 J	86.0 J	340 J	716	137	704 J	456 J	106 J
Strontium	mg/kg	31.0 J	38.5	41.1	20.5 J	34.6	31.2	26.2 J	43.9	33.6	27.6 J	54.7	36.6	23.1 J	39.1	31.8	21.3 J
Thallium	mg/kg	0.319 J	0.443	0.407	0.316 J	0.366	0.291	0.345 J	0.423	0.341	0.358 J	0.392	0.363	0.350 J	0.318	0.396	0.259 J
Tin	mg/kg	10.7 U	10.7 U	11.0 U	10.7 U	11.2 U	10.9 U	10.6 U	2.63 J	2.71 J	10.6 U	2.98 J	11.0 U	10.8 U	2.62 J	2.53 J	10.7 U
Titanium	mg/kg	1390	1620	1740	1200	1560	1430	1410	1250	1080	1320	1300	1530	1260	1410	990	1200
Antimony	mg/kg	0.214 UJ	0.161 J	0.0974 J	0.217 UJ	0.152 J	0.0857 J	0.214 UJ	0.209 UJ	0.221 UJ	0.215 UJ	0.214 UJ	0.230 UJ	0.212 UJ	0.219 UJ	0.216 UJ	0.216 UJ
Arsenic	mg/kg	6.39 J	10.3 J	7.95 J	5.99 J	10.2 J	4.67 J	4.59 J	5.75 J	8.03 J	5.56 J	11.2 J	8.54 J	5.08 J	5.01 J	6.44 J	4.07 J
Beryllium	mg/kg	0.893	1.25	1.09	0.663	1.31	0.617	0.627	0.901 J	0.857 J	0.716	1.30 J	1.30	0.673	0.814 J	0.987 J	0.595
Barium	mg/kg	135 J	186 J	162 J	136 J	141 J	40.9 J	146 J	180 J	110 J	154 J	215 J	157 J	152 J	139 J	156 J	111 J
Boron	mg/kg	1.39 J	12.5	12.7	3.48 J	5.61 U	5.43 U	5.92	8.56	7.85	3.41 J	9.93	5.52 U	5.06 J	7.44	7.57	4.85 J
Cadmium	mg/kg	0.0936 J	0.0929 J	0.0465 J	0.240	0.109 J	0.0479 J	0.248	0.118	0.113	0.349	0.172	0.0916 J	0.301	0.0659 J	0.108 U	0.222
Chromium	mg/kg	26.9 J	32.7	29.1	24.0 J	28.9	22.0	21.6 J	30.9 J	27.7 J	24.7 J	43.0 J	29.9	25.1 J	30.0 J	27.7 J	18.7 J
Cobalt	mg/kg	5.95	11.8	8.80	7.52	13.4	3.61	7.01	7.82 J	9.40 J	7.71	35.1 J	12.5	7.85	4.71 J	12.2 J	6.31
Copper	mg/kg	48.9	13.1	11.3	30.7	10.3	8.61	15.1	13.4 J	16.4 J	14.2	32.5 J	10.0	14.3	15.1 J	9.84 J	10.5
Vanadium	mg/kg	48.6 J	68.7	59.5	47.7 J	59.2	35.9	42.5 J	46.6	40.6	45.8 J	45.7	56.3	47.0 J	39.5	35.3	35.6 J
Zinc	mg/kg	39.3 J	81.2	74.6	46.0 J	64.3	48.5	45.6 J	62.8 J	59.9 J	48.1 J	89.1 J	65.4	48.4 J	54.9 J	59.8 J	38.1 J
Zirconium	mg/kg	3.36 J	4.63 J	4.52 J	3.72 J	4.79 J	3.01 J	3.86 J	3.83 J	4.52 J	4.19 J	4.41 J	4.49 J	2.88 J	3.43 J	4.29 J	3.30 J
Calcium	mg/kg	3730 J	2930	3320	2330 J	3340	2720	2810 J	3940 J	3400 J	2610 J	6270 J	3830	2460 J	4160 J	2820 J	2020 J
Phosphorus	mg/kg	160	148	141	204	144	94.0	301	128	242	214	127	153	253	153 J	118	255
Selenium	mg/kg	0.428 U	0.104 J	0.0934 J	0.434 U	0.0914 J	0.434 U	0.428 U	0.0606 J	0.443 U	0.431 U	0.0767 J	0.0855 J	0.424 U	0.0744 J	0.0697 J	0.433 U
Chromium VI	mg/kg	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.2	0.29 J	1.1 U	0.39 J	0.34 J	1.1 U	1.1 U	0.23 J	1.1 U

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

Appendix A2
Metals and Inorganics - Validated Data
HSA-5C

Sample Name		SL-098-SA5C-SS-0.0-0.5	SL-098-SA5C-SB-4.0-5.0	SL-098-SA5C-SB-9.0-10.0	SL-099-SA5C-SS-0.0-0.5	SL-099-SA5C-SB-4.0-5.0	SL-099-SA5C-SB-9.0-10.0	SL-100-SA5C-SS-0.0-0.5	SL-100-SA5C-SB-4.0-5.0	SL-100-SA5C-SB-8.5-9.5	SL-101-SA5C-SS-0.0-0.5	SL-101-SA5C-SB-4.0-5.0	SL-102-SA5C-SB-4.0-5.0	SL-103-SA5C-SS-0.0-0.5	SL-103-SA5C-SB-4.0-5.0	SL-103-SA5C-SB-9.0-10.0	SL-104-SA5C-SS-0.0-0.5
Sample Date		10/21/2010	11/09/2010	11/09/2010	10/21/2010	11/09/2010	11/09/2010	10/21/2010	11/11/2010	11/11/2010	10/21/2010	11/11/2010	11/09/2010	10/21/2010	11/10/2010	11/10/2010	10/21/2010
SDG		DE001	DE012	DE012	DE001	DE012	DE012	DE001	DE014	DE014	DE001	DE014	DE012	DE001	DE013	DE013	DE001
Start Depth		0	4	9	0	4	9	0	4	8.5	0	4	4	0	4	9	0
End Depth		0.5	5	10	0.5	5	10	0.5	5	9.5	0.5	5	5	0.5	5	10	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Perchlorate (314.0)	ug/kg	33.1 U	33.4 U	34.1 U	32.9 U	34.0 U	32.9 U	33.0 U	32.3 U	33.6 U	33.0 U	14.6 J	34.4 U	32.8 U	33.4 U	33.6 U	33.1 U
Perchlorate (6850)	ug/kg	--	--	--	--	--	--	5.5 U	--	--	--	--	5.7 U	--	--	--	--
Percent Moisture	%	9.3	10.2	12.1	8.8	11.7	8.8	9.2	7.2	10.6	9.0	6.7	12.9	8.5	10.3	10.8	9.4
pH	pH unit	7.86	7.38	7.73	7.58	7.67	7.21	6.25	6.82	6.87	6.65	7.16	6.99	6.24	7.70	7.22	6.44
Hydrazine	ng/g	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylhydrazine	ng/g	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dimethylhydrazine	ng/g	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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

Appendix A2
Metals and Inorganics - Validated Data
HSA-5C

Sample Name		SL-104-SA5C-SB-4.0-5.0	SL-104-SA5C-SB-9.0-10.0	SL-106-SA5C-SB-4.0-5.0	SL-106-SA5C-SB-9.0-10.0	SL-107-SA5C-SS-0.0-0.5	SL-107-SA5C-SB-4.0-5.0	SL-107-SA5C-SB-9.0-10.0	SL-108-SA5C-SS-0.0-0.5	SL-108-SA5C-SB-4.0-5.0	SL-108-SA5C-SB-9.0-10.0	SL-109-SA5C-SB-4.0-5.0	SL-109-SA5C-SB-9.0-10.0	SL-110-SA5C-SB-4.0-5.0	SL-110-SA5C-SB-9.0-10.0	SL-111-SA5C-SB-4.0-5.0	SL-111-SA5C-SB-9.0-10.0
Sample Date		11/11/2010	11/11/2010	11/08/2010	11/08/2010	10/21/2010	11/08/2010	11/08/2010	10/21/2010	11/08/2010	11/08/2010	11/08/2010	11/08/2010	11/10/2010	11/10/2010	11/10/2010	11/10/2010
SDG		DE014	DE014	DE011	DE011	DE001	DE011	DE011	DX002	DE011	DE011	DE011	DE011	DE013	DE013	DE013	DE013
Start Depth		4	9	4	9	0	4	9	0	4	9	4	9	4	9	4	9
End Depth		5	10	5	10	0.5	5	10	0.5	5	10	5	10	5	10	5	10
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Nitrate	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Fluoride	mg/kg	6.9	5.2	8.0 J	8.4 J	2.7 J	9.6 J	6.3 J	3.6 J	7.6 J	5.8 J	7.6 J	7.6 J	11.5 J	14.2 J	9.3 J	3.8 J
Cyanide	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aluminum	mg/kg	33600	16500	23600	27300	14000	33000	31400	16600	35600	22100	35900	27600	32300	26300	29900	13300
Iron	mg/kg	32700	21100	24900	25200	16000 J	30800	30500	20500	31000	22400	29900	25900	32100	30200	27200	18000
Lead	mg/kg	11.6 J	7.61 J	8.99 J	7.61 J	6.77 J	8.97 J	8.79 J	8.17 J	14.7 J	8.15 J	10.2 J	10.2 J	10.7 J	9.93 J	7.82 J	5.58 J
Lithium	mg/kg	27.6	21.7	26.8	36.6	11.4	27.7	27.8	12.5	29.2	21.8	30.7	23.9	28.7	28.8	34.6	21.2
Magnesium	mg/kg	5410	4490	4990	4860	2870	6300	6020	2880	6430	4330	6030	5220	6270	5430	6090	3700
Manganese	mg/kg	189 J	134 J	227 J	312 J	214 J	209 J	343 J	253	424 J	481 J	194 J	318 J	211 J	335 J	169 J	379 J
Mercury	mg/kg	0.0056 J	0.0084 J	0.0206 J	0.0101 J	0.958	0.0055 J	0.0196 J	0.367	0.0299 J	0.0050 J	0.0130 J	0.0198 J	0.0214 J	0.0180 J	0.0233 J	0.103 U
Molybdenum	mg/kg	0.606 J	0.240 J	0.609	0.604	0.608 J	0.487	0.404	0.701 J	0.675	0.750	0.548	0.671	0.321 J	0.334 J	0.163 J	0.446 J
Nickel	mg/kg	17.6 J	13.2 J	14.9	20.9	13.7	18.1	23.5	12.3 J	25.7	19.0	17.8	18.4	19.2 J	29.2 J	14.6 J	30.4 J
Potassium	mg/kg	2580 J	1920 J	2190	2790	1800 J	3160	3050	1960 J	3110	2600	3060	3010	2640 J	3250 J	2190 J	2380 J
Silver	mg/kg	0.0948 J	0.0242 J	0.0615 J	0.0652 J	0.0345 J	0.0513 J	0.0532 J	0.0413 J	0.0557 J	0.0318 J	0.0532 J	0.0726 J	0.0768 J	0.0721 J	0.0615 J	0.0222 J
Sodium	mg/kg	605 J	564 J	459	471	202	603	791	144	578	513	487	637	472 J	580 J	291 J	205 J
Strontium	mg/kg	39.1	28.1	39.8	35.8	34.5 J	50.7	52.6	23.4	47.7	33.3	42.3	78.8	51.5	54.7	57.8	23.0
Thallium	mg/kg	0.404	0.349	0.396	0.319	0.207 J	0.442	0.376	0.291 J	0.489	0.304	0.488	0.423	0.427	0.430	0.323	0.302
Tin	mg/kg	2.82 J	2.50 J	10.7 U	11.3 U	10.6 U	10.9 U	11.6 U	10.3 U	11.0 U	11.1 U	10.9 U	11.1 U	2.68 J	2.55 J	2.57 J	2.20 J
Titanium	mg/kg	1540	1370	1500	1450	884	1690	1500	1060	1690	1180	1590	1560	1070	1420	884	1410
Antimony	mg/kg	0.221 UJ	0.223 UJ	0.154 J	0.120 J	0.215 UJ	0.0799 J	0.182 J	0.161 J	0.157 J	0.139 J	0.137 J	0.194 J	0.214 UJ	0.229 UJ	0.219 UJ	0.213 UJ
Arsenic	mg/kg	9.40 J	6.82 J	7.64 J	7.26 J	4.37 J	7.23 J	6.23 J	5.27	12.3 J	7.93 J	8.63 J	6.80 J	6.84 J	7.02 J	4.14 J	7.65 J
Beryllium	mg/kg	1.29 J	0.893 J	1.07	0.877	0.543	1.07	0.995	0.666	1.53	0.921	1.28	1.02	1.06 J	1.01 J	0.903 J	0.604 J
Barium	mg/kg	176 J	83.4 J	127 J	69.8 J	103 J	163 J	79.1 J	115 J	173 J	68.2 J	196 J	108 J	159 J	129 J	252 J	133 J
Boron	mg/kg	9.80	5.72	11.9	5.63 U	1.62 J	14.8	5.81 U	2.62 J	16.1	5.53 U	13.0	5.56 U	9.01	11.1	10.5	5.48
Cadmium	mg/kg	0.0613 J	0.111 U	0.0787 J	0.190	0.210	0.0953 J	0.129	0.191 J	0.135	0.116	0.0725 J	0.0870 J	0.187	0.196	0.0745 J	0.669
Chromium	mg/kg	33.0 J	26.8 J	30.2	27.4	20.0 J	33.5	34.7	22.4 J	39.3	28.6	32.6	32.6	37.5 J	35.6 J	27.9 J	19.6 J
Cobalt	mg/kg	9.63 J	4.40 J	5.40	8.40	5.12	5.44	11.9	6.83	21.8	10.1	6.97	9.01	8.32 J	8.64 J	5.67 J	8.27 J
Copper	mg/kg	12.8 J	13.3 J	13.0	11.7	14.5	11.1	14.6	24.4 J	14.0	12.3	10.3	13.7	13.1 J	21.6 J	10.4 J	12.9 J
Vanadium	mg/kg	55.1	36.6	55.3	48.4	48.8 J	62.9	60.6	46.3	85.6	56.3	64.3	59.8	45.1	57.5	49.5	36.9
Zinc	mg/kg	67.1 J	60.7 J	61.9	58.2	38.9 J	68.3	71.8	62.1 J	90.3	63.6	73.4	72.2	68.1 J	81.0 J	52.1 J	53.4 J
Zirconium	mg/kg	4.75 J	3.23 J	4.54 J	5.25 J	2.77 J	4.96 J	5.88	3.62 J	5.92	3.91 J	4.84 J	5.54 J	4.73 J	5.12 J	4.35 J	3.53 J
Calcium	mg/kg	3360 J	3020 J	3680	3640	4410 J	6980	5900	2820 J	6040	3400	3780	25700	5770 J	14400 J	28100 J	2660 J
Phosphorus	mg/kg	129	179	220	230	325	165	179	312 J	189	220	151	394	136	303	91.8	269
Selenium	mg/kg	0.0705 J	0.446 U	0.0593 J	0.455 U	0.430 U	0.0586 J	0.0626 J	0.192 J	0.0974 J	0.0558 J	0.0683 J	0.0623 J	0.0835 J	0.0569 J	0.0497 J	0.0610 J
Chromium VI	mg/kg	0.23 J	0.34 J	0.28 J	0.37 J	1.1 U	0.31 J	0.42 J	1.1 U	0.27 J	0.30 J	1.3	0.32 J	1.1 U	1.1 U	1.1 U	1.1 U

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

Appendix A2
Metals and Inorganics - Validated Data
HSA-5C

Sample Name		SL-104-SA5C-SB-4.0-5.0	SL-104-SA5C-SB-9.0-10.0	SL-106-SA5C-SB-4.0-5.0	SL-106-SA5C-SB-9.0-10.0	SL-107-SA5C-SS-0.0-0.5	SL-107-SA5C-SB-4.0-5.0	SL-107-SA5C-SB-9.0-10.0	SL-108-SA5C-SS-0.0-0.5	SL-108-SA5C-SB-4.0-5.0	SL-108-SA5C-SB-9.0-10.0	SL-109-SA5C-SB-4.0-5.0	SL-109-SA5C-SB-9.0-10.0	SL-110-SA5C-SB-4.0-5.0	SL-110-SA5C-SB-9.0-10.0	SL-111-SA5C-SB-4.0-5.0	SL-111-SA5C-SB-9.0-10.0
Sample Date		11/11/2010	11/11/2010	11/08/2010	11/08/2010	10/21/2010	11/08/2010	11/08/2010	10/21/2010	11/08/2010	11/08/2010	11/08/2010	11/08/2010	11/10/2010	11/10/2010	11/10/2010	11/10/2010
SDG		DE014	DE014	DE011	DE011	DE001	DE011	DE011	DX002	DE011	DE011	DE011	DE011	DE013	DE013	DE013	DE013
Start Depth		4	9	4	9	0	4	9	0	4	9	4	9	4	9	4	9
End Depth		5	10	5	10	0.5	5	10	0.5	5	10	5	10	5	10	5	10
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Perchlorate (314.0)	ug/kg	33.7 U	12.0 J	33.9 U	34.5 U	32.6 U	34.1 U	34.9 U	32.2 U	34.6 U	33.5 U	34.5 U	34.7 U	33.7 U	34.4 U	34.1 U	32.0 U
Perchlorate (6850)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5.7 U	--
Percent Moisture	%	11.1	12.0	11.4	13.0	7.9	12.0	14.0	6.9	13.4	10.4	13.0	13.5	11.1	12.8	12.1	6.3
pH	pH unit	6.93	7.05	8.03	7.99	8.27	8.72	8.73	7.44	7.83	8.25	7.62	7.70	7.28	8.54	8.32	8.22
Hydrazine	ng/g	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylhydrazine	ng/g	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dimethylhydrazine	ng/g	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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

Appendix A2
Metals and Inorganics - Validated Data
HSA-5C

Sample Name		SL-112-SA5C-SS-0.0-0.5	SL-112-SA5C-SB-4.0-5.0	SL-114-SA5C-SS-0.0-0.5	SL-115-SA5C-SS-0.0-0.5	SL-116-SA5C-SS-0.0-0.5	SL-117-SA5C-SS-0.0-0.5	SL-118-SA5C-SB-4.0-5.0	SL-118-SA5C-SB-9.0-10.0	SL-119-SA5C-SB-4.0-5.0	SL-119-SA5C-SB-6.0-7.0	SL-120-SA5C-SS-0.0-0.5	SL-120-SA5C-SB-4.0-5.0	SL-120-SA5C-SB-9.0-10.0	SL-121-SA5C-SS-0.0-0.5	SL-122-SA5C-SS-0.0-0.5	SL-122-SA5C-SB-4.0-5.0
Sample Date		10/20/2010	11/05/2010	10/27/2010	10/19/2010	10/19/2010	10/19/2010	11/03/2010	11/03/2010	11/03/2010	11/03/2010	10/19/2010	11/03/2010	11/03/2010	10/19/2010	10/19/2010	11/05/2010
SDG		DE001	DE010	DE005	DOE01	DOE01	DOE01	DE008	DE008	DE008	DE008	DOE01	DE008	DE008	DOE01	DOE01	DE010
Start Depth		0	4	0	0	0	0	4	9	4	6	0	4	9	0	0	4
End Depth		0.5	5	0.5	0.5	0.5	0.5	5	10	5	7	0.5	5	10	0.5	0.5	5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Nitrate	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Fluoride	mg/kg	0.91 J	2.0	1.5	2.0	1.4	1.5	13.8 J	5.8 J	7.0 J	3.3 J	1.4	1.5 J	12.9 J	2.6	1.1	8.1
Cyanide	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aluminum	mg/kg	18000	27000	9230	20400	9700	15900 J	33100	22200	24300	13000	17700	21600	40100	18400	17200	18700
Iron	mg/kg	18600 J	28000	15800	22900	15800	21200	31200	23000	27900	16700	23100	21500	39400	21800	18100	18700
Lead	mg/kg	9.46 J	13.3 J	43.7 J	17.3	20.9	47.3	8.89 J	14.1 J	13.9 J	5.86 J	14.8 J	9.64 J	9.49 J	37.0	22.1 J	5.95 J
Lithium	mg/kg	17.5	33.1	10	18.2	12.6	19.8	28.5	19.8	22.8	18.0	29.3	16.7	40.6	17.2	13.7	21.7
Magnesium	mg/kg	3510	5180	3920	5880	3320	3850 J	6560	5040	5230	4160	5250	4050	7790	4340	3180	4820
Manganese	mg/kg	451 J	559 J	231	369	237	231 J	236	250	688	231	327	580	526	303	650	260 J
Mercury	mg/kg	0.107 U	0.108 U	0.0131 J	0.0354	0.0278	0.0884	0.108 U	0.108 U	0.0037 J	0.0088 J	0.0905 J	0.104 U	0.111 U	0.0805	0.107 U	0.110 U
Molybdenum	mg/kg	0.900 J	0.493 J	1.07	0.589 J	0.719	1.99 J	0.303	0.686	0.436	0.541	0.664 J	0.803	0.403	0.977	1.22 U	0.148 J
Nickel	mg/kg	17.2	23.0 J	15.8 J	19.0	16.8	37.5	16.8	20.9	21.0	16.1	20.6 J	16.7	17.7	23.4	16.6 J	12.8 J
Potassium	mg/kg	3240 J	1950	3310	4330	2110	2310	3190 J	2410 J	3070 J	2040 J	3470	3850 J	3280 J	3180	3110	1310
Silver	mg/kg	0.112 U	0.118 J	0.0527 J	0.0560	0.107	0.221	0.0346 J	0.0428 J	0.0573 J	0.0425 J	3.18 J	0.0695 J	0.0604 J	4.84 J	0.0845 J	0.0550 J
Sodium	mg/kg	93.2 J	126	113	148	125	137	720	478	420	236	80.5	122	966	90.5	83.0	652
Strontium	mg/kg	24.1 J	33.9	15.9	74.7	20.4	28.1	44.1	106	34.0	43.9	21.7	26.7	53.9	35.4	30.6	123
Thallium	mg/kg	0.380 J	0.481 J	0.127	0.332	0.194	0.269	0.334 J	0.301 J	0.324 J	0.287 J	0.348 J	0.366 J	0.304 J	0.352	0.412 J	0.292 J
Tin	mg/kg	11.2 U	10.6 U	11.2 U	2.55	2.33	3.63	10.9 U	11.1 U	10.8 U	10.4 U	10.3 UJ	10.6 U	11.6 U	2.46	2.20	10.7 U
Titanium	mg/kg	1270	1170 J	889	1150 J	801	987	1370 J	1150 J	1230 J	1060 J	1110	1280 J	1280 J	1070	1040	1120 J
Antimony	mg/kg	0.224 UJ	0.257 UJ	0.507 J	0.341	0.393	1.12	0.177 J	0.325 J	0.173 J	0.171 J	0.271 J	0.137 J	0.213 J	0.591 U	0.490	0.217 UJ
Arsenic	mg/kg	5.11 J	7.88 J	3.13	6.18	4.95	6.00	7.36 J	10.1 J	8.59 J	6.32 J	10.6 J	6.09 J	7.76 J	9.49 J	6.28	5.37 J
Beryllium	mg/kg	0.749	1.15	0.361	0.634	0.431	0.680	0.596	0.675	0.668	0.545	0.764 J	0.637	0.826	0.821 J	0.762	0.747
Barium	mg/kg	162 J	165	74.8	128	112	145 J	95.9 J	117 J	143 J	77.8 J	122 J	116 J	321 J	144	151 J	103
Boron	mg/kg	3.30 J	9.78	5.64	12.4	6.15	8.54 J	27.3 U	5.54 U	27.1 U	26.0 U	7.13 J	26.5 U	28.9 U	9.10	7.06	6.67
Cadmium	mg/kg	0.326	0.204 J	2.18	0.650	0.974	1.84	0.293 J	0.423 J	0.231 J	0.190 J	0.413 J	0.272 J	0.533 J	1.62 J	0.383	0.197 J
Chromium	mg/kg	26.2 J	40.2 J	22.2 J	31.0	24.8	55.4	29.6 J	31.4 J	32.6 J	23.6 J	31.2 J	25.7 J	33.5 J	37.4	28.3	25.3 J
Cobalt	mg/kg	8.17	11.4 J	5.53	10.8	7.15	8.56 J	7.66	14.5	14.0	11.9	7.98 U	9.86	7.39	13.1	8.23	5.07 J
Copper	mg/kg	14.8	10.6 J	15.7	15.6	20.6	32.7 J	14.8	18.2	15.4	11.8	24.1	15.2	15.6	23.3	14.6	8.15 J
Vanadium	mg/kg	46.0 J	68.7 J	27.1	59.7	40.5	52.8	58.0	65.7	64.8	43.0	48.8	47.9	62.7	74.2	52.7	43.0 J
Zinc	mg/kg	45.0 J	84.1 J	991 J	277	616	593	53.6	62.3	63.8	52.5	112	55.8	54.8	233	67.1	39.5 J
Zirconium	mg/kg	3.46 J	4.75 J	1.94 J	5.76	2.30	4.74	6.75	5.89	6.15	2.90 J	4.50 J	3.58 J	7.34	5.39	4.35 J	3.85 J
Calcium	mg/kg	2730 J	3920	4200	34500	3380	4780	6550	67500	4700	43200	3570 J	3050	16100	13000	3180	89700
Phosphorus	mg/kg	283	156 J	397	507 J	452	433	214	416	306	402	408 J	228	301	363	224 J	82.2 J
Selenium	mg/kg	0.447 U	0.0777 J	0.136 J	0.240	0.151	0.231 J	0.105 J	0.110 J	0.0851 J	0.0509 J	0.214 J	0.196 J	0.468 U	0.354	0.275	0.0523 J
Chromium VI	mg/kg	1.1 U	0.27 J	4.6	1.4	0.37	0.56	0.30 J	1.2 U	1.1 U	1.1 U	1.1 U	0.51 J	1.2 U	0.41	0.57	0.34 J

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

Appendix A2
Metals and Inorganics - Validated Data
HSA-5C

Sample Name		SL-112-SA5C-SS-0.0-0.5	SL-112-SA5C-SB-4.0-5.0	SL-114-SA5C-SS-0.0-0.5	SL-115-SA5C-SS-0.0-0.5	SL-116-SA5C-SS-0.0-0.5	SL-117-SA5C-SS-0.0-0.5	SL-118-SA5C-SB-4.0-5.0	SL-118-SA5C-SB-9.0-10.0	SL-119-SA5C-SB-4.0-5.0	SL-119-SA5C-SB-6.0-7.0	SL-120-SA5C-SS-0.0-0.5	SL-120-SA5C-SB-4.0-5.0	SL-120-SA5C-SB-9.0-10.0	SL-121-SA5C-SS-0.0-0.5	SL-122-SA5C-SS-0.0-0.5	SL-122-SA5C-SB-4.0-5.0
Sample Date		10/20/2010	11/05/2010	10/27/2010	10/19/2010	10/19/2010	10/19/2010	11/03/2010	11/03/2010	11/03/2010	11/03/2010	10/19/2010	11/03/2010	11/03/2010	10/19/2010	10/19/2010	11/05/2010
SDG		DE001	DE010	DE005	DOE01	DOE01	DOE01	DE008	DE008	DE008	DE008	DOE01	DE008	DE008	DOE01	DOE01	DE010
Start Depth		0	4	0	0	0	0	4	9	4	6	0	4	9	0	0	4
End Depth		0.5	5	0.5	0.5	0.5	0.5	5	10	5	7	0.5	5	10	0.5	0.5	5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Perchlorate (314.0)	ug/kg	33.6 U	13.6 J	35.0 U	40.1 U	37.5 UJ	37.9 U	33.4 U	34.6 U	32.5 U	32.4 U	31.9 U	15.6 J	35.4 U	27.1	33.1 U	10.2 J
Perchlorate (6850)	ug/kg	--	--	--	--	--	--	5.6 U	--	--	--	--	--	5.9 U	--	--	--
Percent Moisture	%	10.6	8.9 U	14.2	25.2	20.1	20.8	10.2 U	13.2 U	7.8 U	7.5 U	5.9	7.4 U	15.3 J	13.8	9.4	9.6 UJ
pH	pH unit	6.51	6.91	7.37	7.96	7.41	7.93	8.19	8.56	7.75	8.73	7.81	5.95	8.32	8.18	6.54 UJ	9.22
Hydrazine	ng/g	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylhydrazine	ng/g	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dimethylhydrazine	ng/g	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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

Appendix A2
Metals and Inorganics - Validated Data
HSA-5C

Sample Name		SL-122-SA5C-SB-9.0-10.0	SL-123-SA5C-SS-0.0-0.5	SL-124-SA5C-SS-0.0-0.5	SL-124-SA5C-SB-4.5-5.5	SL-125-SA5C-SS-0.0-0.5	SL-125-SA5C-SB-4.0-6.0	SL-125-SA5C-SB-7.0-9.0	SL-126-SA5C-SB-4.0-5.0	SL-126-SA5C-SB-9.0-10.0	SL-127-SA5C-SS-0.0-0.5	SL-127-SA5C-SB-4.0-5.0	SL-127-SA5C-SB-7.5-8.5	SL-128-SA5C-SS-0.0-0.5	SL-128-SA5C-SB-4.0-5.0	SL-128-SA5C-SB-8.0-9.0	SL-129-SA5C-SS-0.0-0.5
Sample Date		11/05/2010	10/19/2010	10/20/2010	01/05/2011	10/18/2010	11/01/2010	11/01/2010	11/02/2010	11/02/2010	10/18/2010	11/01/2010	11/01/2010	10/18/2010	11/02/2010	11/02/2010	10/18/2010
SDG		DE010	DOE01	DE001	DE053	DOE01	DE006	DE006	DE007	DE007	DOE01	DE006	DE006	DOE01	DE007	DE007	DOE01
Start Depth		9	0	0	4.5	0	4	7	4	9	0	4	7.5	0	4	8	0
End Depth		10	0.5	0.5	5.5	0.5	6	9	5	10	0.5	5	8.5	0.5	5	9	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Nitrate	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Fluoride	mg/kg	4.5	1.2	0.94 J	3.3	1.5	3.9	2.7	18.6 J	5.5 J	1.6 J	10.6	4.6	1.2 J	2.3 J	2.8	1.1 U
Cyanide	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aluminum	mg/kg	10300	14400	19300	31900	18000	24300	17100	30300	20700	19100 J	28400	14500	16400 J	34000	17700	15400
Iron	mg/kg	15800	17400	21300 J	27200	20300	28500	24300	31500	23300	20800 J	30600	25300	20900 J	31500	21800	20300
Lead	mg/kg	5.01 J	24.6	15.5 J	9.57 J	14.7	7.29	5.43	11.0 J	10.1 J	11.7	9.37	5.23	19.8	11.1 J	7.46 J	16.8
Lithium	mg/kg	18.7	18.1	19.9	34.6	15.8	25.9	31.1	28.2	24.3	15.2 J	40.7	23.3	27.5 J	31.2	23.9	28.1
Magnesium	mg/kg	3160	3260 J	3750	4650	4370 J	6270	5510	6050	4910	4260 J	6170	4440	4830 J	5620	5500	4740
Manganese	mg/kg	263 J	180 J	341 J	272 J	338 J	266 J	302 J	298	182	503 J	236 J	177 J	328 J	256 J	212	295
Mercury	mg/kg	0.101 U	0.0279	0.0093 J	0.0127 J	0.0155	0.0085 J	0.103 U	0.0088 J	0.105 U	0.0092	0.0038 J	0.104 U	0.142 J	0.0079 J	0.105 UJ	0.103
Molybdenum	mg/kg	0.387 J	0.901	0.841 J	0.243 J	0.802	0.342	0.313	0.623	0.663	1.21	0.504	0.302	0.698	0.490 J	0.971 J	0.742
Nickel	mg/kg	10.4 J	21.6	17.1	19.8	17.4	14.0 J	14.1 J	20.5	18.6	22.2 J	14.4 J	9.69 J	21.1	20.9	17.5	22.2
Potassium	mg/kg	2030	1710	3540 J	1930 J	3970	2660 J	2390 J	2890 J	2730 J	4370 J	2640 J	2130 J	3220 U	2550 J	2060 J	3700
Silver	mg/kg	0.0160 J	0.198	0.103 J	0.105 J	0.0492	0.0418 J	0.0183 J	0.0631 J	0.0515 J	0.0336	0.0248 J	0.0309 J	13.3	0.0933 J	0.0615 J	3.37
Sodium	mg/kg	151	80.5	104 J	315	109	225	190	770	363	95.9 J	662	443	80.5	233 J	330	87.6
Strontium	mg/kg	19.1	34.6	23.4 J	39.7	26.0	32.9	23.5	38.4	27.2	26.7 J	36.2	19.9	23.2 J	33.2	24.4	21.6
Thallium	mg/kg	0.226 J	0.229	0.328 J	0.304	0.359	0.256	0.275	0.404 J	0.407 J	0.435	0.291	0.242	0.376	0.391 J	0.373 J	0.422
Tin	mg/kg	10.2 U	2.73	10.7 U	11.1 U	2.12	10.9 U	10.5 U	11.0 U	10.8 U	2.39 J	10.8 U	10.3 U	2.93	11.2 U	10.3 U	2.49
Titanium	mg/kg	999 J	834	1380	1230	1190	1480	1380	1480 J	1350 J	1300 J	1600	1410	1120 J	1230 J	1460 J	1030
Antimony	mg/kg	0.211 UJ	0.655	0.257 UJ	0.217 UJ	0.220	0.215 J	0.0995 J	0.202 J	0.389 J	0.369	0.161 J	0.0951 J	0.318 J	0.362 J	0.164 J	0.412
Arsenic	mg/kg	8.27 J	5.15	7.93 J	7.10 J	5.42	5.84	5.87	10.2 J	10.8 J	7.56 J	8.39	5.95	10.4	8.55 J	8.70 J	9.74
Beryllium	mg/kg	0.436	0.680	0.747	1.03 J	0.620 R	0.702	0.566	0.874	0.675	0.829 J	0.855	0.514	0.765	1.00	0.647	0.723
Barium	mg/kg	67.1	139	154 J	153	146	123 J	69.6 J	273 J	102 J	156	129 J	66.0 J	183	172 J	102 J	127 J
Boron	mg/kg	5.04 J	7.21 R	3.23 J	1.06 J	8.18	18.7	12.7	27.6 U	26.9 U	8.18 J	17.2	12.2	8.19	28.0 U	25.8 U	8.13
Cadmium	mg/kg	0.0947 J	0.722	0.321	0.140	0.373	0.0934 J	0.0917 J	0.131 J	0.122 J	0.463 J	0.0707 J	0.0376 J	0.742	0.187 J	0.0720 J	0.725
Chromium	mg/kg	16.5 J	30.2	27.8 J	32.1 J	27.8	27.8 J	22.5 J	39.5 J	30.4 J	33.0	25.9 J	16.3 J	35.7	36.8 J	29.5 J	34.5
Cobalt	mg/kg	5.19 J	6.50	7.06	7.75 J	10.3	6.17 J	6.14 J	8.56	7.59	10.6	7.68 J	3.88 J	7.93	8.88	11.8	8.15
Copper	mg/kg	7.92 J	27.8	14.5	9.29 J	14.8	11.4 J	10.3 J	15.2	13.2	18.3	12.0 J	7.38 J	34.0	11.6 J	14.8	77.9
Vanadium	mg/kg	42.7 J	43.4	53.8 J	71.2 J	56.3	52.0 J	40.4 J	73.0	65.6	64.1	50.7 J	32.2 J	51.3	65.5	51.2	54.1
Zinc	mg/kg	52.2 J	254	47.7 J	87.8	97.8	53.8	51.1	61.8	67.4	72.2	56.8	51.9	147 J	55.5	64.4	143
Zirconium	mg/kg	2.86 J	3.61	4.60 J	2.96 J	3.44	5.95	4.34 J	6.87	4.83 J	3.69 J	4.88 J	3.14 J	4.07 J	6.36	3.48 J	3.63
Calcium	mg/kg	2500	14200	4010 J	4180	3600	5080	5480	8350	6260	3110 J	8190	3500	4150	4130	3920	5120
Phosphorus	mg/kg	288 J	219	359	108 J	415	255	363	143	328	218 U	155	388	417	153 J	419	439
Selenium	mg/kg	0.421 U	0.172 J	0.433 U	0.0992 J	0.138	0.0509 J	0.424 U	0.138 J	0.0720 J	0.354	0.0662 J	0.0554 J	0.237	0.225 J	0.0797 J	0.216
Chromium VI	mg/kg	0.27 J	0.43	1.1 U	0.38 J	0.53	1.1 U	1.1 U	1.1 U	0.77 J	0.80	1.1 U	1.1 U	1.1 U	0.98 J	1.1 U	0.48

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

Appendix A2
Metals and Inorganics - Validated Data
HSA-5C

Sample Name		SL-122-SA5C-SB-9.0-10.0	SL-123-SA5C-SS-0.0-0.5	SL-124-SA5C-SS-0.0-0.5	SL-124-SA5C-SB-4.5-5.5	SL-125-SA5C-SS-0.0-0.5	SL-125-SA5C-SB-4.0-6.0	SL-125-SA5C-SB-7.0-9.0	SL-126-SA5C-SB-4.0-5.0	SL-126-SA5C-SB-9.0-10.0	SL-127-SA5C-SS-0.0-0.5	SL-127-SA5C-SB-4.0-5.0	SL-127-SA5C-SB-7.5-8.5	SL-128-SA5C-SS-0.0-0.5	SL-128-SA5C-SB-4.0-5.0	SL-128-SA5C-SB-8.0-9.0	SL-129-SA5C-SS-0.0-0.5
Sample Date		11/05/2010	10/19/2010	10/20/2010	01/05/2011	10/18/2010	11/01/2010	11/01/2010	11/02/2010	11/02/2010	10/18/2010	11/01/2010	11/01/2010	10/18/2010	11/02/2010	11/02/2010	10/18/2010
SDG		DE010	DOE01	DE001	DE053	DOE01	DE006	DE006	DE007	DE007	DOE01	DE006	DE006	DOE01	DE007	DE007	DOE01
Start Depth		9	0	0	4.5	0	4	7	4	9	0	4	7.5	0	4	8	0
End Depth		10	0.5	0.5	5.5	0.5	6	9	5	10	0.5	5	8.5	0.5	5	9	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Perchlorate (314.0)	ug/kg	31.9 U	37.8 U	33.4 U	33.8 U	31.5 U	14.7 J	32.7 U	33.8 U	33.3 U	10.8 J	33.0 U	32.0 U	32.1 UJ	34.3 U	32.3 U	32.5 U
Perchlorate (6850)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5.4 U
Percent Moisture	%	6.0	20.6	10.3	11.2	4.9	9.9	8.3	11.2	9.8	12.3 J	9.0	6.3	6.6 J	12.5	7.0	7.8
pH	pH unit	7.34	8.38 J	7.71	7.65	6.44 J	7.47	8.31	7.56	8.54	6.67	7.93	8.52	8.08	7.31	8.76	8.03
Hydrazine	ng/g	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylhydrazine	ng/g	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dimethylhydrazine	ng/g	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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

Appendix A2
Metals and Inorganics - Validated Data
HSA-5C

Sample Name		SL-129-SA5C-SB-4.0-5.0	SL-129-SA5C-SB-9.0-10.0	SL-130-SA5C-SS-0.0-0.5	SL-130-SA5C-SB-4.0-5.0	SL-130-SA5C-SB-9.0-10.0	SL-131-SA5C-SB-4.0-5.0	SL-131-SA5C-SB-8.5-9.5	SL-132-SA5C-SS-0.0-0.5	SL-132-SA5C-SB-4.0-5.0	SL-133-SA5C-SS-0.0-0.5	SL-133-SA5C-SB-4.0-5.0	SL-133-SA5C-SB-8.0-9.0	SL-134-SA5C-SS-0.0-0.5	SL-134-SA5C-SB-4.0-5.0	SL-135-SA5C-SS-0.0-0.5	SL-136-SA5C-SS-0.0-0.5
Sample Date		11/05/2010	11/05/2010	10/18/2010	11/03/2010	11/03/2010	11/04/2010	11/04/2010	10/18/2010	11/04/2010	10/18/2010	11/04/2010	11/04/2010	10/19/2010	11/04/2010	10/19/2010	10/20/2010
SDG		DE010	DE010	DOE01	DE008	DE008	DE009	DE009	DOE01	DE009	DOE01	DE009	DE009	DOE01	DE009	DOE01	DE001
Start Depth		4	9	0	4	9	4	8.5	0	4	0	4	8	0	4	0	0
End Depth		5	10	0.5	5	10	5	9.5	0.5	5	0.5	5	9	0.5	5	0.5	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Nitrate	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Fluoride	mg/kg	21.0	9.7	0.96	4.5 J	15.3 J	3.3	6.2	2.0	5.5	1.7 J	3.5	3.5	1.5 J	8.9	2.1	1.0 J
Cyanide	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aluminum	mg/kg	33100	27300	13400	40200	26600	18500	16300	25800	26800	14900 J	21000	12000	15300 J	30700	21800	12600
Iron	mg/kg	28200	29100	18600	32600	22800	19200	19000	26100	27500	19100	21100	19200	20100	28700	27000	16500 J
Lead	mg/kg	11.1 J	12.3 J	11.6	11.9 J	7.22 J	9.91 J	6.28 J	12.2	12.0 J	18.7	10.8 J	5.58 J	17.1	10.5 J	18.0	10.2 J
Lithium	mg/kg	27.7	28.9	27.7	29.2	23.7	15.5	25.9	25.5	27.5	28.7	14.3	29.7	28.4 U	30.2	20.7	17.2
Magnesium	mg/kg	6200	6320	4390	5240	4560	3480	4000	5340	5720	4380	3760	4780	4750 J	5600	5480	3200
Manganese	mg/kg	311 J	264 J	286	314	218	412	180	391 J	240	287 J	478	261	300 J	274	478	177 J
Mercury	mg/kg	0.0184 J	0.0106 J	0.0816	0.0039 J	0.105 U	0.102 U	0.102 U	0.0082	0.111 U	0.110	0.109 U	0.105 U	0.0943 J	0.107 U	0.0462	0.0042 J
Molybdenum	mg/kg	0.519 J	0.630 J	0.497	0.553	0.266	0.911	0.907	0.505	0.375	0.717	0.888	0.611	0.680	0.198	0.554	0.492 J
Nickel	mg/kg	20.0 J	23.8 J	14.2 J	25.2	16.2	16.4	11.8	22.6	23.3	18.7	19.0	24.3	18.2	21.4	17.7	14.3
Potassium	mg/kg	2750	2810	3030	2700 J	2600 J	3310 J	2450 J	3540	2500 J	3100 J	3740 J	2160 J	3370	2360 J	3870	1810 J
Silver	mg/kg	0.0988 J	0.0713 J	2.17	0.0941 J	0.0718 J	0.298 J	0.0663 J	0.0768	0.0473 J	2.85 J	0.161 J	0.0123 J	3.11 J	0.0876 J	0.182	0.115 U
Sodium	mg/kg	515	729	72.0	246	638	96.0 J	418	98.3 J	551	83.9 J	97.7 J	333	76.8	711	102	92.7 J
Strontium	mg/kg	39.2	77.8	18.8	36.4	37.3	25.3	19.7	33.4 R	46.4	23.8	27.3	19.9	20.3	38.8	54.0	52.0 J
Thallium	mg/kg	0.392 J	0.460 J	0.301	0.422 J	0.328 J	0.354 J	0.309 J	0.368	0.373 J	0.392	0.423 J	0.289 J	0.352 UJ	0.358 J	0.303	0.213 J
Tin	mg/kg	10.6 U	11.5 U	2.55	11.1 U	11.1 U	10.3 U	10.1 U	2.62	11.2 U	2.70	11.2 U	10.2 U	2.64	10.9 U	2.44	11.5 U
Titanium	mg/kg	1420 J	1580 J	1030	1200 J	1340 J	1270 J	1260 J	1300	1300 J	1070	1300 J	1300 J	1110	1210 J	1080	854
Antimony	mg/kg	0.334 UJ	0.265 UJ	0.257	0.278 J	0.234 J	0.0981 J	0.120 J	0.303	0.169 J	0.274	0.186 J	0.233 J	0.336 J	0.247 J	0.393	0.230 UJ
Arsenic	mg/kg	8.89 J	12.3 J	7.66	9.24 J	4.94 J	6.27 J	6.84 J	9.29	8.04 J	10.1	5.95 J	8.54 J	9.88 J	7.50 J	7.75	3.64 J
Beryllium	mg/kg	1.05	1.02	0.604 J	1.09	0.701	0.581	0.472	1.01	0.725	0.814	0.726	0.304	0.778 J	0.827	0.693	0.615
Barium	mg/kg	172	149	88.6	182 J	117 J	116 J	96.4 J	201	161 J	121	137 J	76.1 J	121	135 J	115	109 J
Boron	mg/kg	12.0	11.7	6.85	27.6 U	27.7 U	5.16 U	25.3 U	10.3 J	27.9 U	7.32	28.0 U	25.5 U	7.72	27.3 U	11.3	2.03 J
Cadmium	mg/kg	0.146 J	0.213 J	0.471 J	0.230 J	0.233 J	0.324 J	0.102 J	0.319	0.286 J	0.898 J	0.346 J	0.127 J	0.681 J	0.178 J	0.798	0.497
Chromium	mg/kg	35.5 J	40.9 J	22.1	44.4 J	33.1 J	28.5 J	19.8 J	38.0	36.8 J	30.3 J	28.1 J	28.8 J	28.9 J	37.5 J	29.7	21.3 J
Cobalt	mg/kg	9.81 J	10.4 J	5.65 J	10.2	5.13	9.64	5.95	10.6	12.2	7.87	12.0	8.00	7.51 J	9.17	8.94	5.45
Copper	mg/kg	13.1 J	17.9 J	33.4	14.5	12.5	16.8	10.7	13.4	15.4	31.1	19.1	12.6	90.0 J	14.7	14.6	14.7
Vanadium	mg/kg	65.5 J	82.6 J	36.9 J	79.6	49.0	48.5	37.0	69.4	73.4	48.9	56.4	46.7	52.1 J	71.1	58.8	38.3 J
Zinc	mg/kg	65.9 J	90.2 J	107	68.5	54.7	58.6	62.2	74.1	67.4	146	61.1	68.6	132 J	61.1	186	141 J
Zirconium	mg/kg	6.22	6.58	3.06	6.32	5.00 J	3.26 J	2.88 J	5.86	6.07	3.99 J	4.52 J	3.04 J	4.25	5.98	5.78	3.61 J
Calcium	mg/kg	7980	28000	3520	4580	15500	3110	5470	4150	10800	4280	3130	3350	4060	4820	23700	44700 J
Phosphorus	mg/kg	142 J	295 J	370	166	166	221	293	241	244	358	187	509	375	153	412	230
Selenium	mg/kg	0.107 J	0.0620 J	0.165	0.135 J	0.439 U	0.214 J	0.417 U	0.175 J	0.447 U	0.278	0.246 J	0.0512 J	0.217	0.445 U	0.280	0.239 J
Chromium VI	mg/kg	0.37 J	1.2 U	1.1 U	0.29 J	1.1 U	0.50 J	1.1 U	0.91	1.1 U	0.67	0.54 J	1.1 U	0.45 J	1.1 U	0.36	1.2 U

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

Appendix A2
Metals and Inorganics - Validated Data
HSA-5C

Sample Name		SL-129-SA5C-SB-4.0-5.0	SL-129-SA5C-SB-9.0-10.0	SL-130-SA5C-SS-0.0-0.5	SL-130-SA5C-SB-4.0-5.0	SL-130-SA5C-SB-9.0-10.0	SL-131-SA5C-SB-4.0-5.0	SL-131-SA5C-SB-8.5-9.5	SL-132-SA5C-SS-0.0-0.5	SL-132-SA5C-SB-4.0-5.0	SL-133-SA5C-SS-0.0-0.5	SL-133-SA5C-SB-4.0-5.0	SL-133-SA5C-SB-8.0-9.0	SL-134-SA5C-SS-0.0-0.5	SL-134-SA5C-SB-4.0-5.0	SL-135-SA5C-SS-0.0-0.5	SL-136-SA5C-SS-0.0-0.5
Sample Date		11/05/2010	11/05/2010	10/18/2010	11/03/2010	11/03/2010	11/04/2010	11/04/2010	10/18/2010	11/04/2010	10/18/2010	11/04/2010	11/04/2010	10/19/2010	11/04/2010	10/19/2010	10/20/2010
SDG		DE010	DE010	DOE01	DE008	DE008	DE009	DE009	DOE01	DE009	DOE01	DE009	DE009	DOE01	DE009	DOE01	DE001
Start Depth		4	9	0	4	9	4	8.5	0	4	0	4	8	0	4	0	0
End Depth		5	10	0.5	5	10	5	9.5	0.5	5	0.5	5	9	0.5	5	0.5	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Perchlorate (314.0)	ug/kg	33.5 U	34.5 U	31.9 U	33.8 U	33.6 U	31.6 U	31.3 J	17.5	33.9 U	32.0 U	33.9 U	31.5 U	32.4 U	33.7 U	34.1 U	35.3 U
Perchlorate (6850)	ug/kg	5.6 U	--	--	--	--	--	--	--	--	--	--	--	--	5.6 U	--	--
Percent Moisture	%	10.5	13.1 UJ	6.1	11.3 U	10.6 U	5.0	5.1 U	17.1	11.4	6.3	11.5 U	4.8	7.4	11.0 U	12.0	14.9
pH	pH unit	8.01	8.72	8.10	6.76	8.50	6.73	8.80	7.23 J	7.99	8.28	6.34	8.13	7.99	8.05	8.24	8.46
Hydrazine	ng/g	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylhydrazine	ng/g	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dimethylhydrazine	ng/g	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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

Appendix A2
Metals and Inorganics - Validated Data
HSA-5C

Sample Name		SL-137-SA5C-SS-0.0-0.5	SL-137-SA5C-SB-4.5-5.5	SL-140-SA5C-SB-3.0-4.0	SL-141-SA5C-SS-0.0-0.5	SL-142-SA5C-SS-0.0-0.5	SL-143-SA5C-SS-0.0-0.5	SL-144-SA5C-SS-0.0-0.5	SL-145-SA5C-SS-0.0-0.5
Sample Date		10/20/2010	01/05/2011	12/14/2010	10/20/2010	10/27/2010	10/20/2010	10/20/2010	10/20/2010
SDG		DE001	DE053	DE039	DE001	DE005	DE001	DE001	DE001
Start Depth		0	4.5	3	0	0	0	0	0
End Depth		0.5	5.5	4	0.5	0.5	0.5	0.5	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result
Nitrate	mg/kg	--	--	--	--	--	--	--	--
Fluoride	mg/kg	1.2	5.5	4.0	2.5	1.7	2.3	1.1 J	1.6
Cyanide	mg/kg	--	--	--	--	--	--	--	--
Aluminum	mg/kg	21400	27700	18600	24400	19700	22700	14700	17300
Iron	mg/kg	25500 J	26300	21400	22600 J	24800	21400 J	15600 J	17800 J
Lead	mg/kg	8.85 J	10.5 J	8.73 J	14.4 J	7.10 J	12.7 J	17.6 J	20.0 J
Lithium	mg/kg	31.9	23.3	19.6 J	21.5	25.5	18.9	15.4	20.0
Magnesium	mg/kg	5440	4500	3570	4360	5330	4010	2960	3400
Manganese	mg/kg	450 J	386 J	143	361 J	230	380 J	315 J	280 J
Mercury	mg/kg	0.112 U	0.113 U	0.0063 J	0.0157 J	0.0068 J	0.0060 J	0.0194 J	0.0146 J
Molybdenum	mg/kg	0.489 J	0.771 J	0.412 J	0.692 J	0.327	0.491 J	0.513 J	1.01 J
Nickel	mg/kg	15.3	20.4	11.0 J	18.3	15.3 J	16.9	19.2	21.2
Potassium	mg/kg	3810 J	2540 J	1450 J	3690 J	2390	2810 J	1610 J	2460 J
Silver	mg/kg	0.110 U	0.0660 J	0.0480 J	0.110 U	0.0738 J	0.114 U	0.310	0.151
Sodium	mg/kg	99.2 J	153	386	90.9 J	87.8 J	131	76.2 J	93.4 J
Strontium	mg/kg	24.1 J	36.5	26.3	30.7 J	28.0	27.8 J	32.1 J	18.8 J
Thallium	mg/kg	0.269 J	0.412	0.352 J	0.338 J	0.208	0.323 J	0.251 J	0.294 J
Tin	mg/kg	10.8 U	11.1 U	10.7 U	11.2 U	10.9 U	10.9 U	11.3 U	12.8 U
Titanium	mg/kg	1730	1270	1250	1440	1290	1350	959	1120
Antimony	mg/kg	0.221 UJ	0.276 UJ	0.220 U	0.244 UJ	0.0879 J	0.227 UJ	0.316 UJ	0.274 UJ
Arsenic	mg/kg	8.64 J	7.18 J	6.88 J	7.06 J	8.60	7.44 J	6.76 J	5.89 J
Beryllium	mg/kg	0.757	1.07 J	0.666 J	0.828	0.572	0.839	0.710	0.728
Barium	mg/kg	135 J	200	132 J	155 J	102	142 J	140 J	130 J
Boron	mg/kg	1.93 J	5.55 U	2.76 J	3.89 J	7.06	2.90 J	6.89	2.29 J
Cadmium	mg/kg	0.216	0.270	0.110 UJ	0.330	0.198	0.226	0.564	0.558
Chromium	mg/kg	24.6 J	38.3 J	24.6 J	30.9 J	27.3 J	29.7 J	27.1 J	32.3 J
Cobalt	mg/kg	5.86	8.88 J	4.65 J	7.86	7.52	7.71	10.7	7.10
Copper	mg/kg	10.9	13.1 J	8.83 J	15.1	11.5	13.6	18.3	13.6
Vanadium	mg/kg	44.8 J	81.1 J	50.1 J	55.5 J	44.0	53.4 J	45.7 J	50.1 J
Zinc	mg/kg	54.0 J	71.9	49.0 J	51.1 J	64.9 J	44.3 J	114 J	115 J
Zirconium	mg/kg	3.76 J	2.99 J	2.03 J	4.52 J	3.98 J	3.49 J	3.45 J	3.46 J
Calcium	mg/kg	4170 J	4920	2770	3530 J	12600	3430 J	10600 J	2840 J
Phosphorus	mg/kg	424	190 J	131 J	233	196	185	172	227
Selenium	mg/kg	0.441 U	0.285 J	0.0532 J	0.440 U	0.115 J	0.454 U	0.456 U	0.508 U
Chromium VI	mg/kg	1.1 U	0.67 J	1.1 U	1.1 U	0.32 J	1.1 U	1.2 U	1.3 U

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

Appendix A2
Metals and Inorganics - Validated Data
HSA-5C

Sample Name		SL-137-SA5C-SS-0.0-0.5	SL-137-SA5C-SB-4.5-5.5	SL-140-SA5C-SB-3.0-4.0	SL-141-SA5C-SS-0.0-0.5	SL-142-SA5C-SS-0.0-0.5	SL-143-SA5C-SS-0.0-0.5	SL-144-SA5C-SS-0.0-0.5	SL-145-SA5C-SS-0.0-0.5
Sample Date		10/20/2010	01/05/2011	12/14/2010	10/20/2010	10/27/2010	10/20/2010	10/20/2010	10/20/2010
SDG		DE001	DE053	DE039	DE001	DE005	DE001	DE001	DE001
Start Depth		0	4.5	3	0	0	0	0	0
End Depth		0.5	5.5	4	0.5	0.5	0.5	0.5	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result
Perchlorate (314.0)	ug/kg	34.1 U	34.0 U	33.4 U	45.4	34.1 U	35.0	11.5 J	38.9 U
Perchlorate (6850)	ug/kg	--	4.6 J	--	--	--	--	5.9 U	--
Percent Moisture	%	12.0	11.7	10.1	12.6	11.9	12.8	14.9	22.8
pH	pH unit	7.93	6.98	7.08	6.58	6.30	6.73	8.20	7.28
Hydrazine	ng/g	--	--	--	--	--	--	--	--
Methylhydrazine	ng/g	--	--	--	--	--	--	--	--
1,1-Dimethylhydrazine	ng/g	--	--	--	--	--	--	--	--

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

Appendix A3
Miscellaneous Organics - Validated Data
HSA-5C

Sample Name		SL-001-SA5C-SB-4.0-5.0	SL-001-SA5C-SB-9.0-10.0	SL-002-SA5C-SB-4.0-5.0	SL-002-SA5C-SB-9.0-10.0	SL-003-SA5C-SB-4.0-5.0	SL-004-SA5C-SB-4.0-5.0	SL-004-SA5C-SB-9.0-10.0	SL-005-SA5C-SB-4.0-5.0	SL-005-SA5C-SB-9.0-10.0	SL-006-SA5C-SB-4.0-5.0	SL-006-SA5C-SB-9.0-10.0	SL-007-SA5C-SB-4.0-5.0	SL-007-SA5C-SB-9.0-10.0	SL-009-SA5C-SB-4.0-5.0	SL-009-SA5C-SB-9.0-10.0
Sample Date		12/13/2010	12/13/2010	12/14/2010	12/14/2010	12/13/2010	12/14/2010	12/14/2010	12/10/2010	12/10/2010	12/13/2010	12/13/2010	12/13/2010	12/13/2010	12/10/2010	12/10/2010
SDG		DE037	DE037	DE039	DE039	DE037	DE039	DE039	DE035	DE035	DE037	DE037	DE037	DE037	DE035	DE035
Start Depth		4	9	4	9	4	4	9	4	9	4	9	4	9	4	9
End Depth		5	10	5	10	5	5	10	5	10	5	10	5	10	5	10
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Ethanol	ug/kg	540 U	600 U	530 U	600 U	540 U	600 U	600 U	190 J	190 J	560 U	540 U	540 U	550 U	180 J	190 J
Methanol	ug/kg	540 U	600 U	130 J	690	110 J	410 J	620	580 U	110 J	560 U	540 U	540 U	140 J	530 U	560 U
2-Propanol	ug/kg	540 U	600 U	530 U	600 U	540 U	600 U	600 U	580 U	550 U	560 U	540 U	540 U	550 U	530 U	560 U
Ethylene Glycol	mg/kg	--	--	13 U	15 U	--	15 U	15 U	14 U	14 U	--	--	--	--	13 U	14 U
Diethylene Glycol	mg/kg	--	--	13 U	15 U	--	15 U	15 U	14 U	14 U	--	--	--	--	13 U	14 U
Propylene glycol	mg/kg	--	--	13 UJ	15 UJ	--	15 UJ	15 UJ	14 U	14 U	--	--	--	--	13 U	14 U
o-Terphenyl	mg/kg	3.8 U	4.2 U	3.7 U	6.3 U	3.8 U	4.2 U	4.2 U	4.0 U	3.9 U	4.0 U	3.8 U	3.8 U	3.9 U	3.7 U	3.9 U
m-Terphenyl	mg/kg	3.8 U	4.2 U	3.7 U	6.3 U	3.8 U	4.2 U	4.2 U	4.0 U	3.9 U	4.0 U	3.8 U	3.8 U	3.9 U	3.7 U	3.9 U
p-Terphenyl	mg/kg	3.8 U	4.2 U	3.7 U	6.3 U	3.8 U	4.2 U	4.2 U	4.0 U	3.9 U	4.0 U	3.8 U	3.8 U	3.9 U	3.7 U	3.9 U
Formaldehyde	ug/kg	1600 U	4000	1600 U	3800	1600 U	1800 U	2600	1700 U	3300	1700 U	990 J	1600 U	3000	1600 U	1700 U
2,6-Dinitrotoluene	ug/kg	160 U	180 U	160 U	180 U	160 U	180 U	180 U	170 U	170 U	170 U	160 U	160 U	170 U	160 U	170 U
2,4,6-Trinitrotoluene	ug/kg	160 U	180 U	160 U	180 U	160 U	180 U	180 U	170 U	170 U	170 U	160 U	160 U	170 U	160 U	170 U
RDX	ug/kg	160 U	180 U	160 U	180 U	160 U	180 U	180 U	170 U	170 U	170 U	160 U	160 U	170 U	160 U	170 U
4-Amino-2,6-Dinitrotoluene	ug/kg	160 U	180 U	160 U	180 U	160 U	180 U	180 U	170 U	170 U	170 U	160 U	160 U	170 U	160 U	170 U
HMX	ug/kg	400 U	450 U	400 U	450 U	400 U	450 U	450 U	430 U	410 U	420 U	410 U	410 U	410 U	400 U	420 U
2-Amino-4,6-Dinitrotoluene	ug/kg	160 U	180 U	160 U	180 U	160 U	180 U	180 U	170 U	170 U	170 U	160 U	160 U	170 U	160 U	170 U
Tetryl	ug/kg	160 U	180 U	160 UJ	180 UJ	160 U	180 UJ	180 UJ	170 U	170 U	170 U	160 U	160 U	170 U	160 U	170 U
Nitroglycerin	ug/kg	3200 U	3600 U	3200 U	3600 U	3200 U	3600 U	3600 U	3500 U	3300 U	3400 U	3300 U	3300 U	3300 U	3200 U	3400 U
2,6-Diamino-4-nitrotoluene	ug/kg	320 U	360 U	320 U	360 U	320 U	360 U	360 U	350 U	330 U	340 U	330 U	330 U	330 U	320 U	340 U
2,4-Diamino-6-nitrotoluene	ug/kg	320 U	360 U	320 U	360 U	320 U	360 U	360 U	350 U	330 U	340 U	330 U	330 U	330 U	320 U	340 U
PETN	ug/kg	3200 U	3600 U	3200 U	3600 U	3200 U	3600 U	3600 U	3500 U	3300 U	3400 U	3300 U	3300 U	3300 U	3200 U	3400 U
2-Nitrotoluene	ug/kg	160 U	180 U	160 U	180 U	160 U	180 U	180 U	170 U	170 U	170 U	160 U	160 U	170 U	160 U	170 U
3-Nitrotoluene	ug/kg	160 U	180 U	160 U	180 U	160 U	180 U	180 U	170 U	170 U	170 U	160 U	160 U	170 U	160 U	170 U
1,3,5-Trinitrobenzene	ug/kg	160 U	180 U	160 U	180 U	160 U	180 U	180 U	170 U	170 U	170 U	160 U	160 U	170 U	160 U	170 U
4-Nitrotoluene	ug/kg	160 U	180 U	160 U	180 U	160 U	180 U	180 U	170 U	170 U	170 U	160 U	160 U	170 U	160 U	170 U
2,4-Dinitrotoluene	ug/kg	160 U	180 U	160 U	180 U	160 U	180 U	180 U	170 U	170 U	170 U	160 U	160 U	170 U	160 U	170 U
Nitrobenzene	ug/kg	160 U	180 U	160 U	180 U	160 U	180 U	180 U	170 U	170 U	170 U	160 U	160 U	170 U	160 U	170 U
m-Dinitrobenzene	ug/kg	160 U	180 U	160 U	180 U	160 U	180 U	180 U	170 U	170 U	170 U	160 U	160 U	170 U	160 U	170 U

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

Appendix A3
Miscellaneous Organics - Validated Data
HSA-5C

Sample Name		SL-010-SA5C-SB-4.0-5.0	SL-010-SA5C-SB-9.0-10.0	SL-011-SA5C-SB-4.0-5.0	SL-011-SA5C-SB-9.0-10.0	SL-012-SA5C-SB-4.0-5.0	SL-012-SA5C-SB-9.0-10.0	SL-013-SA5C-SB-4.0-5.0	SL-013-SA5C-SB-9.0-10.0	SL-014-SA5C-SB-4.0-5.0	SL-014-SA5C-SB-9.0-10.0	SL-015-SA5C-SB-4.0-5.0	SL-015-SA5C-SB-9.0-10.0	SL-016-SA5C-SB-4.0-5.0	SL-016-SA5C-SB-9.0-10.0	SL-017-SA5C-SB-4.0-5.0
Sample Date		12/10/2010	12/10/2010	12/10/2010	12/10/2010	12/09/2010	12/09/2010	12/09/2010	12/09/2010	12/07/2010	12/07/2010	12/08/2010	12/08/2010	12/08/2010	12/08/2010	12/09/2010
SDG		DE035	DE035	DE035	DE035	DE033	DE033	DE033	DE033	DE030	DE030	DE033	DE033	DE033	DE033	DE034
Start Depth		4	9	4	9	4	9	4	9	4	9	4	9	4	9	4
End Depth		5	10	5	10	5	10	5	10	5	10	5	10	5	10	5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Ethanol	ug/kg	210 J	180 J	230 J	200 J	310 J	330 J	260 J	260 J	320 J	300 J	550 U	540 U	550 U	550 U	240 J
Methanol	ug/kg	570 U	550 U	550 U	540 U	130 J	140 J	550 U	550 U	260 J	220 J	550 U	540 U	550 U	550 U	550 U
2-Propanol	ug/kg	570 U	550 U	550 U	540 U	560 U	610 U	550 U	550 U	550 U	550 U	550 U	540 U	550 U	550 U	550 U
Ethylene Glycol	mg/kg	14 U	14 U	14 U	14 U	14 U	15 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U
Diethylene Glycol	mg/kg	14 U	14 U	14 U	14 U	14 U	15 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U
Propylene glycol	mg/kg	14 U	14 U	14 U	14 U	14 U	15 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U
o-Terphenyl	mg/kg	4.0 U	3.8 U	3.9 U	3.8 U	3.9 U	4.3 U	3.8 U	7.7 U	3.8 U	3.8 U	3.9 U	3.8 U	3.8 U	3.9 U	3.9 U
m-Terphenyl	mg/kg	4.0 U	3.8 U	3.9 U	3.8 U	3.9 U	4.3 U	3.8 U	7.7 U	3.8 U	3.8 U	3.9 U	3.8 U	3.8 U	3.9 U	3.9 U
p-Terphenyl	mg/kg	4.0 U	3.8 U	3.9 U	3.8 U	3.9 U	4.3 U	3.8 U	7.7 U	3.8 U	3.8 U	3.9 U	3.8 U	3.8 U	3.9 U	3.9 U
Formaldehyde	ug/kg	1700 U	670 J	1700 U	1600 U	1700 U	1800 U	1600 U	1600 U	1600 U	2500	1700 U	1600 U	1600 U	2900	1700 U
2,6-Dinitrotoluene	ug/kg	170 U	160 U	170 U	160 U	170 U	180 U	160 U	160 U	160 U	160 U	170 U	160 U	160 U	170 U	170 U
2,4,6-Trinitrotoluene	ug/kg	170 U	160 U	170 U	160 U	170 U	180 U	160 U	160 U	160 U	160 U	170 U	160 U	160 U	170 U	170 U
RDX	ug/kg	170 U	160 U	170 U	160 U	170 U	180 U	160 U	160 U	160 U	160 U	170 U	160 U	160 U	170 U	170 U
4-Amino-2,6-Dinitrotoluene	ug/kg	170 U	160 U	170 U	160 U	170 U	180 U	160 U	160 U	160 U	160 U	170 U	160 U	160 U	170 U	170 U
HMX	ug/kg	430 U	410 U	410 U	410 U	420 U	460 U	410 U	410 U	410 U	410 U	410 U	410 U	410 U	410 U	420 U
2-Amino-4,6-Dinitrotoluene	ug/kg	170 U	160 U	170 U	160 U	170 U	180 U	160 U	160 U	160 U	160 U	170 U	160 U	160 U	170 U	170 U
Tetryl	ug/kg	170 U	160 U	170 U	160 U	170 U	180 U	160 U	160 U	160 U	160 U	170 U	160 U	160 U	170 U	170 U
Nitroglycerin	ug/kg	3400 U	3300 U	3300 U	3200 U	3300 U	3700 U	3300 U	3300 U	3300 U	3300 U	3300 U	3300 U	3300 U	3300 U	3300 U
2,6-Diamino-4-nitrotoluene	ug/kg	340 U	330 U	330 U	320 U	330 U	370 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
2,4-Diamino-6-nitrotoluene	ug/kg	340 U	330 U	330 U	320 U	330 U	370 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
PETN	ug/kg	3400 U	3300 U	3300 U	3200 U	3300 U	3700 U	3300 U	3300 U	3300 U	3300 U	3300 U	3300 U	3300 U	3300 U	3300 U
2-Nitrotoluene	ug/kg	170 U	160 U	170 U	160 U	170 U	180 U	160 U	160 U	160 U	160 U	170 U	160 U	160 U	170 U	170 U
3-Nitrotoluene	ug/kg	170 U	160 U	170 U	160 U	170 U	180 U	160 U	160 U	160 U	160 U	170 U	160 U	160 U	170 U	170 U
1,3,5-Trinitrobenzene	ug/kg	170 U	160 U	170 U	160 U	170 U	180 U	160 U	160 U	160 U	160 U	170 U	160 U	160 U	170 U	170 U
4-Nitrotoluene	ug/kg	170 U	160 U	170 U	160 U	170 U	180 U	160 U	160 U	160 U	160 U	170 U	160 U	160 U	170 U	170 U
2,4-Dinitrotoluene	ug/kg	170 U	160 U	170 U	160 U	170 U	180 U	160 U	160 U	160 U	160 U	170 U	160 U	160 U	170 U	170 U
Nitrobenzene	ug/kg	170 U	160 U	170 U	160 U	170 U	180 U	160 U	160 U	160 U	160 U	170 U	160 U	160 U	170 U	170 U
m-Dinitrobenzene	ug/kg	170 U	160 U	170 U	160 U	170 U	180 U	160 U	160 U	160 U	160 U	170 U	160 U	160 U	170 U	170 U

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

Appendix A3
Miscellaneous Organics - Validated Data
HSA-5C

Sample Name		SL-017-SA5C-SB-9.0-10.0	SL-018-SA5C-SB-4.0-5.0	SL-019-SA5C-SB-4.0-5.0	SL-019-SA5C-SB-8.5-9.5	SL-020-SA5C-SB-4.0-5.0	SL-020-SA5C-SB-7.5-8.5	SL-021-SA5C-SB-4.0-5.0	SL-021-SA5C-SB-9.0-10.0	SL-022-SA5C-SB-4.0-5.0	SL-025-SA5C-SB-4.0-5.0	SL-025-SA5C-SB-9.0-10.0	SL-026-SA5C-SB-4.0-5.0	SL-026-SA5C-SB-9.0-10.0	SL-027-SA5C-SB-2.5-3.5	SL-027-SA5C-SB-9.0-10.0
Sample Date		12/09/2010	12/06/2010	12/07/2010	12/07/2010	12/08/2010	12/08/2010	12/08/2010	12/08/2010	12/09/2010	12/06/2010	12/06/2010	12/07/2010	12/07/2010	12/07/2010	12/07/2010
SDG		DE034	DX013	DE030	DE030	DE033	DE033	DE033	DE033	DE033	DX013	DX013	DE030	DE030	DE030	DE030
Start Depth		9	4	4	8.5	4	7.5	4	9	4	4	9	4	9	2.5	9
End Depth		10	5	5	9.5	5	8.5	5	10	5	5	10	5	10	3.5	10
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Ethanol	ug/kg	230 J	570 U	260 J	270 J	560 U	550 U	530 U	550 U	550 U	140 J	130 J	130 J	150 J	200 J	250 J
Methanol	ug/kg	560 U	570 U	190 J	200 J	560 U	550 U	530 U	550 U	550 U	140 J	550 U	550 U	130 J	290 J	160 J
2-Propanol	ug/kg	560 U	570 U	560 U	560 U	560 U	550 U	530 U	550 U	550 U	560 U	550 U	550 U	570 U	560 U	570 U
Ethylene Glycol	mg/kg	14 U	14 U	14 U	14 UJ	14 U	14 U	13 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U
Diethylene Glycol	mg/kg	14 U	14 U	14 U	14 UJ	14 U	14 U	13 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U
Propylene glycol	mg/kg	14 U	14 U	14 U	14 UJ	14 U	14 U	13 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U
o-Terphenyl	mg/kg	3.9 U	4.0 U	3.9 U	3.9 U	3.9 U	3.8 U	3.7 U	3.8 U	3.8 U	3.9 U	3.9 U	3.8 U	4.0 U	3.9 U	4.0 U
m-Terphenyl	mg/kg	3.9 U	4.0 U	3.9 U	3.9 U	3.9 U	3.8 U	3.7 U	3.8 U	3.8 U	3.9 U	3.9 U	3.8 U	4.0 U	3.9 U	4.0 U
p-Terphenyl	mg/kg	3.9 U	4.0 U	3.9 U	3.9 U	3.9 U	3.8 U	3.7 U	3.8 U	3.8 U	3.9 U	3.9 U	3.8 U	4.0 U	3.9 U	4.0 U
Formaldehyde	ug/kg	3500	1700 U	1700 U	4500	1700 U	1600 U	1600 U	1600 U	1600 U	1700 U	1700 U	1600 U	3800	1700 U	1700 U
2,6-Dinitrotoluene	ug/kg	170 U	170 U	170 U	170 U	170 U	160 U	160 U	160 U	160 U	170 U	170 U	160 U	170 U	170 U	170 U
2,4,6-Trinitrotoluene	ug/kg	170 U	170 U	170 U	170 U	170 U	160 U	160 U	160 U	160 U	170 U	170 U	160 U	170 U	170 U	170 U
RDX	ug/kg	170 U	170 U	170 U	170 U	170 U	160 U	160 U	160 U	160 U	170 U	170 U	160 U	170 U	170 U	170 U
4-Amino-2,6-Dinitrotoluene	ug/kg	170 U	170 U	170 U	170 U	170 U	160 U	160 U	160 U	160 U	170 U	170 U	160 U	170 U	170 U	170 U
HMX	ug/kg	420 U	430 U	420 U	420 U	420 U	410 U	400 U	410 U	410 U	420 U	410 UJ	410 U	430 U	420 U	430 U
2-Amino-4,6-Dinitrotoluene	ug/kg	170 U	170 U	170 U	170 U	170 U	160 U	160 U	160 U	160 U	170 U	170 U	160 U	170 U	170 U	170 U
Tetryl	ug/kg	170 U	170 U	170 U	170 U	170 U	160 U	160 U	160 U	160 U	170 U	170 UJ	160 U	170 U	170 U	170 U
Nitroglycerin	ug/kg	3400 U	3400 U	3300 U	3300 U	3300 U	3300 U	3200 U	3300 U	3300 U	3400 U	3300 U	3300 U	3400 U	3300 U	3400 U
2,6-Diamino-4-nitrotoluene	ug/kg	340 U	340 U	330 U	330 U	330 U	330 U	320 U	330 U	330 U	340 U	330 U	330 U	340 U	330 U	340 U
2,4-Diamino-6-nitrotoluene	ug/kg	340 U	340 U	330 U	330 U	330 U	330 U	320 U	330 U	330 U	340 U	330 U	330 U	340 U	330 U	340 U
PETN	ug/kg	3400 U	3400 U	3300 U	3300 U	3300 U	3300 U	3200 U	3300 U	3300 U	3400 U	3300 U	3300 U	3400 U	3300 U	3400 U
2-Nitrotoluene	ug/kg	170 U	170 U	170 U	170 U	170 U	160 U	160 U	160 U	160 U	170 U	170 U	160 U	170 U	170 U	170 U
3-Nitrotoluene	ug/kg	170 U	170 U	170 U	170 U	170 U	160 U	160 U	160 U	160 U	170 U	170 U	160 U	170 U	170 U	170 U
1,3,5-Trinitrobenzene	ug/kg	170 U	170 U	170 U	170 U	170 U	160 U	160 U	160 U	160 U	170 U	170 U	160 U	170 U	170 U	170 U
4-Nitrotoluene	ug/kg	170 U	170 U	170 U	170 U	170 U	160 U	160 U	160 U	160 U	170 U	170 U	160 U	170 U	170 U	170 U
2,4-Dinitrotoluene	ug/kg	170 U	170 U	170 U	170 U	170 U	160 U	160 U	160 U	160 U	170 U	170 U	160 U	170 U	170 U	170 U
Nitrobenzene	ug/kg	170 U	170 U	170 U	170 U	170 U	160 U	160 U	160 U	160 U	170 U	170 U	160 U	170 U	170 U	170 U
m-Dinitrobenzene	ug/kg	170 U	280	170 U	170 U	170 U	160 U	160 U	160 U	160 U	190	170 U	160 U	170 U	170 U	170 U

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

Appendix A3
Miscellaneous Organics - Validated Data
HSA-5C

Sample Name		SL-028-SA5C-SB-4.0-5.0	SL-030-SA5C-SB-4.0-5.0	SL-030-SA5C-SB-9.0-10.0	SL-031-SA5C-SB-4.0-5.0	SL-031-SA5C-SB-9.0-10.0	SL-032-SA5C-SB-4.0-5.0	SL-037-SA5C-SB-3.5-4.5	SL-039-SA5C-SB-4.0-5.0	SL-044-SA5C-SB-4.0-5.0	SL-044-SA5C-SB-9.0-10.0	SL-046-SA5C-SB-4.0-5.0	SL-046-SA5C-SB-9.0-10.0	SL-050-SA5C-SB-4.0-5.0	SL-050-SA5C-SB-9.0-10.0	SL-052-SA5C-SB-2.5-3.0
Sample Date		12/06/2010	12/03/2010	12/03/2010	12/03/2010	12/03/2010	12/03/2010	12/02/2010	12/02/2010	12/01/2010	12/01/2010	12/01/2010	12/01/2010	11/22/2010	11/22/2010	11/19/2010
SDG		DE029	DE028	DE028	DE028	DE028	DE028	DE027	DE027	DE026	DE026	DE026	DE026	DE021	DE021	DE020
Start Depth		4	4	9	4	9	4	3.5	4	4	9	4	9	4	9	2.5
End Depth		5	5	10	5	10	5	4.5	5	5	10	5	10	5	10	3
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Ethanol	ug/kg	130 J	560 U	570 U	560 U	570 U	110 J	570 U	540 U	120 J	570 U	540 U	540 U	550 U	560 U	550 U
Methanol	ug/kg	550 U	560 U	570 U	560 U	570 U	540 U	570 U	540 U	580 U	570 U	540 U	130 J	270 J	330 J	330 J
2-Propanol	ug/kg	550 U	560 U	570 U	560 U	570 U	540 U	570 U	540 U	580 U	570 U	540 U	540 U	550 U	560 U	550 U
Ethylene Glycol	mg/kg	14 U	14 U	14 U	14 U	14 U	14 U	14 U	13 U	15 U	14 U	13 U	14 U	14 U	14 U	14 U
Diethylene Glycol	mg/kg	14 U	14 U	14 U	14 U	14 U	14 U	14 U	13 U	15 U	14 U	13 U	14 U	14 U	14 U	14 U
Propylene glycol	mg/kg	14 U	14 U	--	14 U	14 U	14 U	14 U	13 U	15 U	14 U	13 U	14 U	14 U	14 U	14 U
o-Terphenyl	mg/kg	3.9 U	3.9 U	4.0 U	3.9 U	4.0 U	3.8 U	4.0 U	3.8 U	4.1 U	4.0 U	3.8 U	3.8 U	3.8 U	4.0 U	3.8 U
m-Terphenyl	mg/kg	3.9 U	3.9 U	4.0 U	3.9 U	4.0 U	3.8 U	4.0 U	3.8 U	4.1 U	4.0 U	3.8 U	3.8 U	3.8 U	4.0 U	3.8 U
p-Terphenyl	mg/kg	3.9 U	3.9 U	4.0 U	3.9 U	4.0 U	3.8 U	4.0 U	3.8 U	4.1 U	4.0 U	3.8 U	3.8 U	3.8 U	4.0 U	3.8 U
Formaldehyde	ug/kg	1700 U	1700 U	1700 U	1200 J	4800	1600 U	1700 U	1600 U	1700 U	1700 U	1600 U	1600 U	1600 U	1700 U	1600 U
2,6-Dinitrotoluene	ug/kg	170 U	170 U	170 U	170 U	170 U	160 U	170 U	160 U	170 U	170 U	160 U	160 U	160 U	170 U	160 U
2,4,6-Trinitrotoluene	ug/kg	170 U	170 U	170 U	170 U	170 U	160 U	170 U	160 U	170 U	170 U	160 U	160 U	160 U	170 U	160 U
RDX	ug/kg	170 U	170 U	170 U	170 U	170 U	160 U	170 U	160 U	170 U	170 U	160 U	160 U	160 U	170 U	160 U
4-Amino-2,6-Dinitrotoluene	ug/kg	170 U	170 U	170 U	170 U	170 U	160 U	170 U	160 U	170 U	170 U	160 U	160 U	160 U	170 U	160 U
HMX	ug/kg	410 U	420 U	430 U	420 U	430 U	410 U	430 U	400 U	440 U	430 U	400 U	410 U	410 U	420 U	410 U
2-Amino-4,6-Dinitrotoluene	ug/kg	170 U	170 U	170 U	170 U	170 U	160 U	170 U	160 U	170 U	170 U	160 U	160 U	160 U	170 U	160 U
Tetryl	ug/kg	170 U	170 U	170 U	170 U	170 U	160 U	170 U	160 U	170 U	170 U	160 U	160 U	160 U	170 U	160 U
Nitroglycerin	ug/kg	3300 U	3300 U	3400 U	3400 U	3400 U	3300 U	3400 U	3200 U	3500 U	3400 U	3200 U	3300 U	3300 U	3400 U	3300 U
2,6-Diamino-4-nitrotoluene	ug/kg	330 U	330 U	340 U	340 U	340 U	330 U	340 U	320 U	350 U	340 U	320 U	330 U	330 U	340 U	330 U
2,4-Diamino-6-nitrotoluene	ug/kg	330 U	330 U	340 U	340 U	340 U	330 U	340 U	320 U	350 U	340 U	320 U	330 U	330 U	340 U	330 U
PETN	ug/kg	3300 U	3300 U	3400 U	3400 U	3400 U	3300 U	3400 U	3200 U	3500 U	3400 U	3200 U	3300 U	3300 U	3400 U	3300 U
2-Nitrotoluene	ug/kg	170 U	170 U	170 U	170 U	170 U	160 U	170 U	160 U	170 U	170 U	160 U	160 U	160 U	170 U	160 U
3-Nitrotoluene	ug/kg	170 U	170 U	170 U	170 U	170 U	160 U	170 U	160 U	170 U	170 U	160 U	160 U	160 U	170 U	160 U
1,3,5-Trinitrobenzene	ug/kg	170 U	170 U	170 U	170 U	170 U	160 U	170 U	160 U	170 U	170 U	160 U	160 U	160 U	170 U	160 U
4-Nitrotoluene	ug/kg	170 U	170 U	170 U	170 U	170 U	160 U	170 U	160 U	170 U	170 U	160 U	160 U	160 U	170 U	160 U
2,4-Dinitrotoluene	ug/kg	170 U	170 U	170 U	170 U	170 U	160 U	170 U	160 U	170 U	170 U	160 U	160 U	160 U	170 U	160 U
Nitrobenzene	ug/kg	170 U	170 U	170 U	170 U	170 U	160 U	170 U	160 U	170 U	170 U	160 U	160 U	160 U	170 U	160 U
m-Dinitrobenzene	ug/kg	260 J	170 U	170 U	92 J	170 U	160 U	170 U	160 U	300	170 U	160 U	160 U	160 U	170 U	160 U

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

Appendix A3
Miscellaneous Organics - Validated Data
HSA-5C

Sample Name		SL-053-SA5C-SB-3.0-4.0	SL-054-SA5C-SB-3.0-4.0	SL-059-SA5C-SB-1.0-2.0	SL-059-SA5C-SB-9.0-10.0	SL-060-SA5C-SB-4.0-5.0	SL-060-SA5C-SB-9.0-10.0	SL-060-SA5C-SB-10.0-11.0	SL-061-SA5C-SB-4.0-5.0	SL-061-SA5C-SB-9.0-10.0	SL-064-SA5C-SB-4.0-5.0	SL-066-SA5C-SB-3.0-4.0	SL-067-SA5C-SB-3.0-4.0	SL-068-SA5C-SB-3.5-4.5	SL-071-SA5C-SB-4.0-5.0	SL-071-SA5C-SB-9.0-10.0
Sample Date		11/22/2010	11/18/2010	11/29/2010	11/29/2010	11/23/2010	11/23/2010	12/14/2010	11/24/2010	11/24/2010	11/24/2010	11/22/2010	11/18/2010	11/18/2010	11/29/2010	11/29/2010
SDG		DE021	DE019	DX011	DX011	DE022	DE022	DE039	DE023	DE023	DE023	DE021	DE019	DE019	DX011	DX011
Start Depth		3	3	1	9	4	9	10	4	9	4	3	3	3.5	4	9
End Depth		4	4	2	10	5	10	11	5	10	5	4	4	4.5	5	10
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Ethanol	ug/kg	310 J	560 U	150 J	600 U	530 U	560 U	570 U	550 U	510 U	580 U	310 J	530 U	540 U	160 J	150 J
Methanol	ug/kg	270 J	270 J	530 J	600 U	530 U	560 U	160 J	550 U	510 U	580 U	240 J	170 J	190 J	600 U	560 U
2-Propanol	ug/kg	530 U	560 U	550 U	600 U	530 U	560 U	570 U	550 U	510 U	580 U	540 U	530 U	540 U	600 U	560 U
Ethylene Glycol	mg/kg	13 U	14 U	14 U	15 U	13 U	14 U	14 U	14 UJ	13 UJ	14 U	13 U	13 U	14 U	15 U	14 U
Diethylene Glycol	mg/kg	13 U	14 U	14 U	15 U	13 U	14 U	14 U	14 UJ	13 UJ	14 U	13 U	13 U	14 U	15 U	14 U
Propylene glycol	mg/kg	13 U	14 U	14 U	15 U	13 U	14 U	14 UJ	14 UJ	13 UJ	14 U	13 U	13 U	14 U	15 U	14 U
o-Terphenyl	mg/kg	3.7 U	3.9 U	3.9 U	4.2 U	3.7 U	3.9 U	6.0 U	3.9 U	3.6 U	4.0 U	3.8 U	3.7 U	3.8 U	4.2 U	3.9 U
m-Terphenyl	mg/kg	3.7 U	3.9 U	3.9 U	4.2 U	3.7 U	3.9 U	6.0 U	3.9 U	3.6 U	4.0 U	3.8 U	3.7 U	3.8 U	4.2 U	3.9 U
p-Terphenyl	mg/kg	3.7 U	3.9 U	3.9 U	4.2 U	3.7 U	3.9 U	6.0 U	3.9 U	3.6 U	4.0 U	3.8 U	3.7 U	3.8 U	4.2 U	3.9 U
Formaldehyde	ug/kg	1600 U	1700 U	10000	1800 U	1600 U	1700 U	1700 U	1700 U	1500 U	1700 U	1600 U	1600 U	1600 U	1800 U	1700 U
2,6-Dinitrotoluene	ug/kg	160 U	170 U	170 U	180 U	160 U	170 U	170 U	170 U	150 U	170 U	160 U	160 U	160 U	180 U	170 U
2,4,6-Trinitrotoluene	ug/kg	160 U	170 U	170 U	180 U	160 U	170 U	170 U	170 U	150 U	170 U	160 U	160 U	160 U	180 U	170 U
RDX	ug/kg	160 U	170 U	200 U	180 U	160 U	170 U	170 U	170 U	150 U	170 U	160 U	160 U	160 U	180 U	170 U
4-Amino-2,6-Dinitrotoluene	ug/kg	160 U	170 U	170 U	180 U	160 U	170 U	170 U	170 U	150 U	170 U	160 U	160 U	160 U	180 U	170 U
HMX	ug/kg	400 U	420 U	410 U	450 U	400 U	420 U	430 U	410 U	390 U	430 U	400 U	400 U	410 U	450 U	420 U
2-Amino-4,6-Dinitrotoluene	ug/kg	160 U	170 U	170 U	180 U	160 U	170 U	170 U	170 U	150 U	170 U	160 U	160 U	160 U	180 U	170 U
Tetryl	ug/kg	160 U	170 U	170 U	180 U	160 U	170 U	170 UJ	170 U	150 U	170 U	160 U	160 U	160 U	180 U	170 U
Nitroglycerin	ug/kg	3200 U	3400 U	3300 U	3600 U	3200 U	3300 U	3400 U	3300 U	3100 U	3500 U	3200 U	3200 U	3200 U	3600 U	3400 U
2,6-Diamino-4-nitrotoluene	ug/kg	320 U	340 U	330 U	360 U	320 U	330 U	340 U	330 U	310 U	350 U	320 U	320 U	320 U	360 U	340 U
2,4-Diamino-6-nitrotoluene	ug/kg	320 U	340 U	330 U	360 U	320 U	330 U	340 U	330 U	310 U	350 U	320 U	320 U	320 U	360 U	340 U
PETN	ug/kg	3200 U	3400 U	3300 U	3600 U	3200 U	3300 U	3400 U	3300 U	3100 U	3500 U	3200 U	3200 U	3200 U	3600 U	3400 U
2-Nitrotoluene	ug/kg	160 U	170 U	170 U	180 U	160 U	170 U	170 U	170 U	150 U	170 U	160 U	160 U	160 U	180 U	170 U
3-Nitrotoluene	ug/kg	160 U	170 U	170 U	180 U	160 U	170 U	170 U	170 U	150 U	170 U	160 U	160 U	160 U	180 U	170 U
1,3,5-Trinitrobenzene	ug/kg	160 U	170 U	170 U	180 U	160 U	170 U	170 U	170 U	150 U	170 U	160 U	160 U	160 U	180 U	170 U
4-Nitrotoluene	ug/kg	160 U	170 U	170 U	180 U	160 U	170 U	170 U	170 U	150 U	170 U	160 U	160 U	160 U	180 U	170 U
2,4-Dinitrotoluene	ug/kg	160 U	170 U	170 U	180 U	160 U	170 U	170 U	170 U	150 U	170 U	160 U	160 U	160 U	180 U	170 U
Nitrobenzene	ug/kg	160 U	170 U	170 U	180 U	160 U	170 U	170 U	170 U	150 U	170 U	160 U	160 U	160 U	180 U	170 U
m-Dinitrobenzene	ug/kg	160 U	170 U	170 U	180 U	160 U	170 U	170 U	170 U	150 U	170 U	160 U	160 U	160 U	180 U	170 U

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

Appendix A3
Miscellaneous Organics - Validated Data
HSA-5C

Sample Name		SL-072-SA5C-SB-4.0-5.0	SL-072-SA5C-SB-7.5-8.5	SL-076-SA5C-SB-3.0-4.0	SL-077-SA5C-SB-3.0-4.0
Sample Date		11/17/2010	11/17/2010	11/23/2010	11/23/2010
SDG		DE018	DE018	DE022	DE022
Start Depth		4	7.5	3	3
End Depth		5	8.5	4	4
Chemical Name	Unit	Result	Result	Result	Result
Ethanol	ug/kg	540 U	220 J	530 U	530 U
Methanol	ug/kg	540 U	250 J	530 U	530 U
2-Propanol	ug/kg	540 U	560 U	530 U	530 U
Ethylene Glycol	mg/kg	13 U	14 UJ	13 U	13 U
Diethylene Glycol	mg/kg	13 UJ	14 UJ	13 U	13 U
Propylene glycol	mg/kg	13 U	14 UJ	13 U	13 U
o-Terphenyl	mg/kg	3.8 U	3.9 U	3.7 U	3.7 U
m-Terphenyl	mg/kg	3.8 U	3.9 U	3.7 U	3.7 U
p-Terphenyl	mg/kg	3.8 U	3.9 U	3.7 U	3.7 U
Formaldehyde	ug/kg	1600 U	1700 U	1600 U	1600 U
2,6-Dinitrotoluene	ug/kg	160 U	170 U	160 U	160 U
2,4,6-Trinitrotoluene	ug/kg	160 U	170 U	160 U	160 U
RDX	ug/kg	160 U	170 U	160 U	160 U
4-Amino-2,6-Dinitrotoluene	ug/kg	160 U	170 U	160 U	160 U
HMX	ug/kg	400 U	420 U	400 U	390 U
2-Amino-4,6-Dinitrotoluene	ug/kg	160 U	170 U	160 U	160 U
Tetryl	ug/kg	160 U	170 U	160 U	160 U
Nitroglycerin	ug/kg	3200 U	3300 U	3200 U	3200 U
2,6-Diamino-4-nitrotoluene	ug/kg	320 U	330 U	320 U	320 U
2,4-Diamino-6-nitrotoluene	ug/kg	320 U	330 U	320 U	320 U
PETN	ug/kg	3200 U	3300 U	3200 U	3200 U
2-Nitrotoluene	ug/kg	160 U	170 U	160 U	160 U
3-Nitrotoluene	ug/kg	160 U	170 U	160 U	160 U
1,3,5-Trinitrobenzene	ug/kg	160 U	170 U	160 U	160 U
4-Nitrotoluene	ug/kg	160 U	170 U	160 U	160 U
2,4-Dinitrotoluene	ug/kg	160 U	170 U	160 U	160 U
Nitrobenzene	ug/kg	160 U	170 U	160 U	160 U
m-Dinitrobenzene	ug/kg	160 U	170 U	160 U	160 U

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

Appendix A4
Dioxins and PCBs - Validated Data
HSA-5C

Sample Name		SL-001-SA5C-SS-0.0-0.5	SL-001-SA5C-SB-4.0-5.0	SL-001-SA5C-SB-9.0-10.0	SL-002-SA5C-SS-0.0-0.5	SL-002-SA5C-SB-4.0-5.0	SL-002-SA5C-SB-9.0-10.0	SL-003-SA5C-SB-4.0-5.0	SL-004-SA5C-SS-0.0-0.5	SL-004-SA5C-SB-4.0-5.0	SL-004-SA5C-SB-9.0-10.0	SL-005-SA5C-SB-4.0-5.0	SL-005-SA5C-SB-9.0-10.0	SL-006-SA5C-SB-4.0-5.0	SL-006-SA5C-SB-9.0-10.0	SL-007-SA5C-SB-4.0-5.0	SL-007-SA5C-SB-9.0-10.0
Sample Date		10/26/2010	12/13/2010	12/13/2010	10/26/2010	12/14/2010	12/14/2010	12/13/2010	10/26/2010	12/14/2010	12/14/2010	12/10/2010	12/10/2010	12/13/2010	12/13/2010	12/13/2010	12/13/2010
SDG		DE004	DE037	DE037	DE004	DE039	DE039	DE037	DE004	DE039	DE039	DE035	DE035	DE037	DE037	DE037	DE037
Start Depth		0	4	9	0	4	9	4	0	4	9	4	9	4	9	4	9
End Depth		0.5	5	10	0.5	5	10	5	0.5	5	10	5	10	5	10	5	10
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
2,3,7,8-TCDD	ng/kg	1.09 U	1.07 U	1.20 U	1.14 U	1.07 U	1.20 U	1.08 U	1.12 U	1.19 U	1.20 U	0.0254 J	0.0433 J	0.0249	1.09 U	1.09 U	0.0237
1,2,3,7,8,9-HxCDD	ng/kg	0.483 J	0.139	0.0829	0.281 J	5.33 U	6.00 U	0.270	0.367 J	5.97 U	6.01 U	0.355 J	0.299 J	0.510	0.197	0.285	0.353
OCDD	ng/kg	216	1.36	4.85	98.0	10.7 U	12.0 U	135	223	11.9 U	12.0 U	4.14 J	115	25.4	83.4	58.1	179
1,2,3,4,6,7,8-HpCDD	ng/kg	18.7	0.461 J	0.665 J	9.20	5.33 U	6.00 U	9.85 J	19.3	5.97 U	6.01 U	5.76 U	8.95	2.54 J	5.23	5.76	14.7
OCDF	ng/kg	5.67 J	0.515 J	0.700 J	2.96 J	10.7 U	12.0 U	3.36 J	5.54 J	11.9 U	12.0 U	11.5 U	2.74 J	11.3 U	1.53	2.06	4.77
1,2,3,4,7,8-HxCDD	ng/kg	0.213 J	0.0327 J	0.0352 J	5.68 U	5.33 U	6.00 U	0.0843 J	5.62 U	5.97 U	6.01 U	5.76 U	5.50 U	0.0294 J	5.45 U	0.112	5.51 U
1,2,3,7,8-PeCDD	ng/kg	0.148 J	5.36 UJ	0.0381 J	0.107 J	5.33 U	6.00 U	0.0932 J	0.125 J	5.97 U	6.01 U	5.76 U	5.50 U	0.0742 J	5.45 U	5.44 U	5.51 U
2,3,7,8-TCDF	ng/kg	0.0201 J	1.07 UJ	0.0215 J	0.0368 J	1.07 U	1.20 U	0.0234 J	0.0435 J	1.19 U	1.20 U	0.0287 J	1.10 U	0.0498 J	1.09 U	1.09 U	1.10 U
1,2,3,4,7,8,9-HpCDF	ng/kg	5.45 U	0.0998 J	0.148 J	5.68 U	5.33 U	6.00 U	0.212 J	5.62 U	5.97 U	6.01 U	5.76 U	5.50 U	0.0739 J	5.45 U	5.44 U	5.51 U
2,3,4,7,8-PeCDF	ng/kg	5.45 U	0.136 J	0.144 J	5.68 U	5.33 U	6.00 U	0.296 J	5.62 U	5.97 U	6.01 U	5.76 U	5.50 U	0.100 J	0.137 J	0.241 J	5.51 U
1,2,3,7,8-PeCDF	ng/kg	5.45 U	0.0412 J	0.0615 J	5.68 U	5.33 U	6.00 U	0.0899 J	5.62 U	5.97 U	6.01 U	5.76 U	5.50 U	0.294 J	0.0757 J	0.164 J	5.51 U
1,2,3,6,7,8-HxCDF	ng/kg	5.45 U	0.150 J	6.02 U	5.68 U	5.33 U	6.00 U	0.187 J	5.62 U	5.97 U	6.01 U	5.76 U	5.50 U	5.64 U	5.45 U	5.44 U	5.51 U
1,2,3,6,7,8-HxCDD	ng/kg	0.571 J	0.117 J	0.0810 J	0.316 J	5.33 U	6.00 U	0.358 J	0.531 J	5.97 U	6.01 U	0.187 J	0.369 J	0.362 J	0.204 J	5.44 U	5.51 U
2,3,4,6,7,8-HxCDF	ng/kg	0.128 J	0.225	0.282	5.68 U	5.33 U	6.00 U	0.303	0.107 J	5.97 U	6.01 U	5.76 U	5.50 U	0.0838	5.45 U	5.44 U	5.51 U
1,2,3,4,6,7,8-HpCDF	ng/kg	1.93 J	0.790	0.892 J	1.12 J	5.33 U	6.00 U	1.96	1.83 J	5.97 U	6.01 U	5.76 U	1.12 J	0.428 J	0.955 J	5.44 U	1.71 J
1,2,3,4,7,8-HxCDF	ng/kg	5.45 U	0.155 J	0.169 J	5.68 U	5.33 U	6.00 U	0.231 J	0.123 J	5.97 U	6.01 U	5.76 U	5.50 U	0.0520 J	0.163	5.44 U	5.51 U
1,2,3,7,8,9-HxCDF	ng/kg	5.45 U	0.110	0.140	5.68 U	5.33 U	6.00 U	0.161	5.62 U	5.97 U	6.01 U	0.342 J	0.216 J	0.445	0.0937 J	0.231 J	0.170 J
Aroclor 1260	ug/kg	0.59 J	1.8 U	2.0 U	0.67 J	1.8 U	2.0 U	0.61 J	0.61 J	2.0 U	2.0 U	2.0 U	0.92 J	1.9 U	1.9 U	0.71 J	0.88 J
Aroclor 1254	ug/kg	1.2 J	1.8 U	2.0 U	1.9 U	1.8 U	2.0 U	1.3 J	0.76 J	2.0 U	0.66 J	0.86 J	1.9 U	0.97 J	1.9 U	2.8	1.1 J
Aroclor 1268	ug/kg	1.9 U	1.8 U	2.0 U	1.9 U	1.8 U	2.0 U	1.8 U	1.9 U	2.0 U	2.0 U	2.0 U	1.9 U	1.9 U	1.9 U	1.8 U	1.9 U
Aroclor 1221	ug/kg	1.9 U	1.8 U	2.0 U	1.9 U	1.8 U	2.0 U	1.8 U	1.9 U	2.0 U	2.0 U	2.0 U	1.9 U	1.9 U	1.9 U	1.8 U	1.9 U
Aroclor 5460	ug/kg	3.6 U	3.5 U	4.0 U	3.7 U	3.5 UJ	4.0 UJ	3.6 U	3.7 U	3.9 UJ	4.0 UJ	3.8 U	1.7 J	3.7 U	3.6 U	1.9 J	3.6 U
Aroclor 1232	ug/kg	1.9 U	1.8 U	2.0 U	1.9 U	1.8 U	2.0 U	1.8 U	1.9 U	2.0 U	2.0 U	2.0 U	1.9 U	1.9 U	1.9 U	1.8 U	1.9 U
Aroclor 5442	ug/kg	3.6 U	3.5 U	4.0 U	3.7 U	3.5 UJ	4.0 UJ	3.6 U	3.7 U	3.9 UJ	4.0 UJ	3.8 U	3.6 U	3.7 U	3.6 U	3.6 U	3.6 U
Aroclor 1248	ug/kg	1.9 U	1.8 U	2.0 U	1.9 U	1.8 U	2.0 U	1.8 U	1.9 U	2.0 U	2.0 U	2.0 U	1.4 J	1.9 U	1.9 U	5.1	1.4 J
Aroclor 1016	ug/kg	1.9 U	1.8 U	2.0 U	1.9 U	1.8 U	2.0 U	1.8 U	1.9 U	2.0 U	2.0 U	2.0 U	1.9 U	1.9 U	1.9 U	1.8 U	1.9 U
Aroclor 1262	ug/kg	1.9 U	1.8 U	2.0 U	1.9 U	1.8 U	2.0 U	1.8 U	1.9 U	2.0 U	2.0 U	2.0 U	1.9 U	1.9 U	1.9 U	1.8 U	1.9 U
Aroclor 1242	ug/kg	1.9 U	1.8 U	2.0 U	1.9 U	1.8 U	2.0 U	1.8 U	1.9 U	2.0 U	2.0 U	2.0 U	1.9 U	1.9 U	1.9 U	1.8 U	1.9 U
Aroclor 5432	ug/kg	3.6 U	3.5 U	4.0 U	3.7 U	3.5 UJ	4.0 UJ	3.6 U	3.7 U	3.9 UJ	4.0 UJ	3.8 U	3.6 U	3.7 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

Appendix A4
Dioxins and PCBs - Validated Data
HSA-5C

Sample Name		SL-008-SA5C-SS-0.0-0.5	SL-008-SA5C-SB-4.0-5.0	SL-008-SA5C-SB-8.0-9.0	SL-009-SA5C-SB-4.0-5.0	SL-009-SA5C-SB-9.0-10.0	SL-010-SA5C-SB-4.0-5.0	SL-010-SA5C-SB-9.0-10.0	SL-011-SA5C-SB-4.0-5.0	SL-011-SA5C-SB-9.0-10.0	SL-012-SA5C-SS-0.0-0.5	SL-012-SA5C-SB-4.0-5.0	SL-012-SA5C-SB-9.0-10.0	SL-013-SA5C-SB-4.0-5.0	SL-013-SA5C-SB-9.0-10.0	SL-014-SA5C-SB-4.0-5.0	SL-014-SA5C-SB-9.0-10.0
Sample Date		10/26/2010	12/10/2010	12/10/2010	12/10/2010	12/10/2010	12/10/2010	12/10/2010	12/10/2010	12/10/2010	10/26/2010	12/09/2010	12/09/2010	12/09/2010	12/09/2010	12/07/2010	12/07/2010
SDG		DE004	DE035	DE035	DE035	DE035	DE035	DE035	DE035	DE035	DE004	DE033	DE033	DE033	DE033	DE030	DE030
Start Depth		0	4	8	4	9	4	9	4	9	0	4	9	4	9	4	9
End Depth		0.5	5	9	5	10	5	10	5	10	0.5	5	10	5	10	5	10
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
2,3,7,8-TCDD	ng/kg	1.18 U	0.145 J	1.10 U	1.07 U	1.12 U	0.0332 J	0.0361 J	0.0209 J	1.08 U	1.15 U	1.11 U	1.22 U	1.10 U	1.10 U	1.09 U	1.10 U
1,2,3,7,8,9-HxCDD	ng/kg	0.123 J	0.434 J	5.48 U	0.156 J	0.150 J	0.337 J	5.48 U	0.234 J	0.230 J	0.191 J	5.56 U	6.11 U	5.48 U	5.48 U	0.274 J	0.242 J
OCDD	ng/kg	18.8	11.5 U	49.2	29.8	40.0	110	20.5	66.1	109	23.9	93.7	12.9	127	64.2	185	186
1,2,3,4,6,7,8-HpCDD	ng/kg	1.89 J	5.75 U	5.21 J	3.08 J	4.02 J	8.86	1.73 J	6.68	8.54	2.18 J	7.33	1.28 J	9.16	4.43 J	17.5	12.7
OCDF	ng/kg	0.553 J	11.5 U	11.0 U	1.60 J	11.2 U	3.07 J	11.0 U	1.75 J	2.59 J	1.09 J	11.1 U	12.2 U	2.92 J	11.0 U	7.12 J	3.90 J
1,2,3,4,7,8-HxCDD	ng/kg	5.90 U	5.75 U	5.48 U	5.35 U	5.59 U	5.71 U	5.48 U	5.50 U	5.41 U	5.74 U	0.0935 J	0.0187 J	0.0741 J	0.0652 J	0.108 J	0.0902 J
1,2,3,7,8-PeCDD	ng/kg	0.0244 J	0.246 J	5.48 U	5.35 U	5.59 U	5.71 U	5.48 U	5.50 U	5.41 U	0.0791 J	5.56 U	6.11 U	5.48 U	5.48 U	0.0992 J	0.112 J
2,3,7,8-TCDF	ng/kg	1.18 U	0.172 J	1.10 U	1.07 U	1.12 U	0.0272 J	0.0285 J	0.0371 J	0.0282 J	0.0351 J	0.0793 J	0.0211 J	0.0367 J	1.10 U	0.0904 J	1.10 U
1,2,3,4,7,8,9-HpCDF	ng/kg	5.90 U	5.75 U	5.48 U	5.35 U	5.59 U	5.71 U	5.48 U	5.50 U	5.41 U	5.74 U	5.56 U	6.11 U	5.48 U	5.48 U	5.46 U	5.49 U
2,3,4,7,8-PeCDF	ng/kg	5.90 U	5.75 U	5.48 U	5.35 U	5.59 U	5.71 U	5.48 U	5.50 U	5.41 U	5.74 U	5.56 U	6.11 U	5.48 U	5.48 U	0.631 J	5.49 U
1,2,3,7,8-PeCDF	ng/kg	5.90 U	0.498 J	5.48 U	5.35 U	5.59 U	5.71 U	5.48 U	5.50 U	5.41 U	5.74 U	5.56 U	6.11 U	5.48 U	5.48 U	0.238 J	0.207 J
1,2,3,6,7,8-HxCDF	ng/kg	5.90 U	5.75 U	5.48 U	5.35 U	5.59 U	5.71 U	5.48 U	5.50 U	5.41 U	5.74 U	5.56 U	6.11 U	5.48 U	5.48 U	5.46 U	5.49 U
1,2,3,6,7,8-HxCDD	ng/kg	0.130 J	0.207 J	5.48 U	0.196 J	0.209 J	0.389 J	5.48 U	0.290 J	0.345 J	0.127 J	5.56 U	6.11 U	5.48 U	5.48 U	0.668 J	0.405 J
2,3,4,6,7,8-HxCDF	ng/kg	5.90 U	5.75 U	5.48 U	5.35 U	5.59 U	5.71 U	5.48 U	5.50 U	5.41 U	5.74 U	5.56 U	6.11 U	5.48 U	5.48 U	5.46 U	5.49 U
1,2,3,4,6,7,8-HpCDF	ng/kg	5.90 U	5.75 U	5.48 U	5.35 U	5.59 U	1.46 J	5.48 U	5.50 U	1.17 J	0.448 J	5.56 U	6.11 U	5.48 U	5.48 U	2.71 J	2.45 J
1,2,3,4,7,8-HxCDF	ng/kg	5.90 U	5.75 U	5.48 U	5.35 U	5.59 U	5.71 U	5.48 U	5.50 U	5.41 U	5.74 U	5.56 U	6.11 U	5.48 U	5.48 U	5.46 U	5.49 U
1,2,3,7,8,9-HxCDF	ng/kg	5.90 U	0.373 J	5.48 U	5.35 U	5.59 U	0.228 J	5.48 U	5.50 U	5.41 U	5.74 U	5.56 U	6.11 U	5.48 U	5.48 U	5.46 U	5.49 U
Aroclor 1260	ug/kg	2.0 U	0.49 J	1.9 U	1.8 U	0.66 J	1.9 U	0.44 J	0.64 J	0.48 J	2.0 U	0.75 J	0.81 J	0.76 J	0.56 J	1.4 J	0.64 J
Aroclor 1254	ug/kg	2.0 U	2.0 U	1.9 U	0.91 J	0.93 J	1.9 U	1.9 U	1.9 U	2.1	0.82 J	2.0	1.1 J	1.2 J	0.79 J	17	0.88 J
Aroclor 1268	ug/kg	2.0 U	2.0 U	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	2.0 U	1.9 U	2.1 U	1.9 U	1.9 U	1.9 U	1.9 U
Aroclor 1221	ug/kg	2.0 U	2.0 U	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	2.0 U	1.9 U	2.1 U	1.9 U	1.9 U	1.9 U	1.9 U
Aroclor 5460	ug/kg	3.9 U	3.8 U	3.6 U	3.5 U	3.7 U	3.8 U	3.6 U	1.4 J	3.6 U	3.8 U	3.7 U	4.0 U	3.6 U	3.6 U	2.7 J	2.0 J
Aroclor 1232	ug/kg	2.0 U	2.0 U	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	2.0 U	1.9 U	2.1 U	1.9 U	1.9 U	1.9 U	1.9 U
Aroclor 5442	ug/kg	3.9 U	3.8 U	3.6 U	3.5 U	3.7 U	3.8 U	3.6 U	3.6 U	3.6 U	3.8 U	3.7 U	4.0 U	3.6 U	3.6 U	3.6 U	3.6 U
Aroclor 1248	ug/kg	2.0 U	2.0 U	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U	2.7	1.8 U	2.0 U	4.2	2.1	1.9 U	1.9 U	10	0.98 J
Aroclor 1016	ug/kg	2.0 U	2.0 U	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	2.0 U	1.9 U	2.1 U	1.9 U	1.9 U	1.9 U	1.9 U
Aroclor 1262	ug/kg	2.0 U	2.0 U	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	2.0 U	1.9 U	2.1 U	1.9 U	1.9 U	1.9 U	1.9 U
Aroclor 1242	ug/kg	2.0 U	2.0 U	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	2.0 U	1.9 U	2.1 U	1.9 U	1.9 U	1.9 U	1.9 U
Aroclor 5432	ug/kg	3.9 U	3.8 U	3.6 U	3.5 U	3.7 U	3.8 U	3.6 U	3.6 U	3.6 U	3.8 U	3.7 U	4.0 U	3.6 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

Appendix A4
Dioxins and PCBs - Validated Data
HSA-5C

Sample Name		SL-015-SA5C-SB-4.0-5.0	SL-015-SA5C-SB-9.0-10.0	SL-016-SA5C-SB-4.0-5.0	SL-016-SA5C-SB-9.0-10.0	SL-017-SA5C-SB-4.0-5.0	SL-017-SA5C-SB-9.0-10.0	SL-018-SA5C-SS-0.0-0.5	SL-018-SA5C-SB-4.0-5.0	SL-019-SA5C-SB-4.0-5.0	SL-019-SA5C-SB-8.5-9.5	SL-020-SA5C-SS-0.0-0.5	SL-020-SA5C-SB-4.0-5.0	SL-020-SA5C-SB-7.5-8.5	SL-021-SA5C-SB-4.0-5.0	SL-021-SA5C-SB-9.0-10.0	SL-022-SA5C-SB-4.0-5.0
Sample Date		12/08/2010	12/08/2010	12/08/2010	12/08/2010	12/09/2010	12/09/2010	10/26/2010	12/06/2010	12/07/2010	12/07/2010	10/26/2010	12/08/2010	12/08/2010	12/08/2010	12/08/2010	12/09/2010
SDG		DE033	DE033	DE033	DE033	DE034	DE034	DE004	DX013	DE030	DE030	DE004	DE033	DE033	DE033	DE033	DE033
Start Depth		4	9	4	9	4	9	0	4	4	8.5	0	4	7.5	4	9	4
End Depth		5	10	5	10	5	10	0.5	5	5	9.5	0.5	5	8.5	5	10	5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
2,3,7,8-TCDD	ng/kg	1.10 U	1.09 U	1.10 U	1.10 U	1.11 U	1.12 U	1.16 U	1.14 U	1.11 U	1.11 U	1.09 UJ	1.11 U	1.10 U	1.07 U	1.09 U	1.10 U
1,2,3,7,8,9-HxCDD	ng/kg	5.52 U	5.44 U	5.48 U	5.50 U	0.305 J	5.59 U	0.285 J	0.354 J	0.0900 J	0.130 J	0.206 J	5.56 U	5.48 U	5.34 U	5.46 U	5.49 U
OCDD	ng/kg	43.2	91.3	100	75.9	2.98 J	11.2 U	17.0	215	5.35 J	11.1 U	65.6 J	16.9	11.0 U	111	123	11.0 U
1,2,3,4,6,7,8-HpCDD	ng/kg	4.95 J	9.27	7.23	4.64 J	5.54 U	5.59 U	1.43 J	15.5	5.57 U	5.57 U	6.57 J	2.09 J	5.48 U	10.7	15.2	5.49 U
OCDF	ng/kg	11.0 U	10.9 U	11.0 U	11.0 U	11.1 U	11.2 U	0.610 J	4.72 J	11.1 U	11.1 U	1.86 J	11.1 U	11.0 U	3.49 J	2.98 J	11.0 U
1,2,3,4,7,8-HxCDD	ng/kg	0.0748 J	0.0637 J	0.100 J	0.0468 J	5.54 U	5.59 U	5.79 U	5.70 U	0.0227 J	0.0278 J	5.46 UJ	0.0562 J	5.48 U	0.136 J	0.103 J	0.0371 J
1,2,3,7,8-PeCDD	ng/kg	5.52 U	5.44 U	5.48 U	5.50 U	5.54 U	5.59 U	5.79 U	5.70 U	5.57 U	0.0227 J	5.46 UJ	5.56 U	5.48 U	5.34 U	5.46 U	5.49 U
2,3,7,8-TCDF	ng/kg	0.0448 J	0.0356 J	0.0445 J	0.0266 J	0.0640 J	1.12 U	0.0212 J	1.14 U	1.11 U	1.11 U	1.09 UJ	0.0283 J	1.10 U	0.0685 J	1.09 U	0.0303 J
1,2,3,4,7,8,9-HpCDF	ng/kg	5.52 U	5.44 U	5.48 U	5.50 U	5.54 U	5.59 U	5.79 U	5.70 U	5.57 U	5.57 U	5.46 UJ	5.56 U	5.48 U	5.34 U	5.46 U	5.49 U
2,3,4,7,8-PeCDF	ng/kg	5.52 U	5.44 U	5.48 U	5.50 U	5.54 U	5.59 U	5.79 U	5.70 U	5.57 U	5.57 U	5.46 UJ	5.56 U	5.48 U	5.34 U	5.46 U	5.49 U
1,2,3,7,8-PeCDF	ng/kg	5.52 U	5.44 U	5.48 U	5.50 U	5.54 U	5.59 U	5.79 U	5.70 U	5.57 U	5.57 U	5.46 UJ	5.56 U	5.48 U	5.34 U	5.46 U	5.49 U
1,2,3,6,7,8-HxCDF	ng/kg	5.52 U	5.44 U	5.48 U	5.50 U	5.54 U	5.59 U	5.79 U	5.70 U	5.57 U	5.57 U	5.46 UJ	5.56 U	5.48 U	5.34 U	5.46 U	5.49 U
1,2,3,6,7,8-HxCDD	ng/kg	5.52 U	0.377 J	5.48 U	5.50 U	5.54 U	5.59 U	0.142 J	0.640 J	0.0853 J	0.108 J	0.265 J	5.56 U	5.48 U	0.491 J	0.543 J	5.49 U
2,3,4,6,7,8-HxCDF	ng/kg	5.52 U	5.44 U	5.48 U	5.50 U	5.54 U	5.59 U	5.79 U	5.70 U	5.57 U	5.57 U	5.46 UJ	5.56 U	5.48 U	5.34 U	5.46 U	5.49 U
1,2,3,4,6,7,8-HpCDF	ng/kg	5.52 U	5.44 U	5.48 U	5.50 U	5.54 U	5.59 U	5.79 U	2.02 J	5.57 U	5.57 U	5.46 UJ	5.56 U	5.48 U	5.34 U	5.46 U	5.49 U
1,2,3,4,7,8-HxCDF	ng/kg	5.52 U	5.44 U	5.48 U	5.50 U	5.54 U	5.59 U	5.79 U	5.70 U	5.57 U	5.57 U	5.46 UJ	5.56 U	5.48 U	5.34 U	5.46 U	5.49 U
1,2,3,7,8,9-HxCDF	ng/kg	5.52 U	5.44 U	5.48 U	5.50 U	5.54 U	5.59 U	5.79 U	5.70 U	5.57 U	5.57 U	5.46 UJ	5.56 U	5.48 U	5.34 U	5.46 U	5.49 U
Aroclor 1260	ug/kg	9.4 U	0.65 J	1.9 U	0.62 J	1.9 U	1.9 U	2.0 U	0.79 J	1.9 U	1.9 U	0.72 J	1.9 U	1.9 U	0.79 J	0.64 J	1.9 U
Aroclor 1254	ug/kg	9.4 U	0.68 J	1.9 U	1.6 J	1.9 U	1.9 U	2.0 U	0.69 J	1.9 U	1.9 U	1.6 J	1.9 U	1.9 U	0.87 J	0.78 J	1.9 U
Aroclor 1268	ug/kg	9.4 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U	2.0 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U
Aroclor 1221	ug/kg	9.4 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U	2.0 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U
Aroclor 5460	ug/kg	18 U	3.6 U	3.6 U	3.6 U	3.7 U	3.7 U	3.8 U	3.8 U	3.7 U	3.7 U	1.4 J	3.7 U	3.6 U	3.5 U	3.6 U	3.6 U
Aroclor 1232	ug/kg	9.4 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U	2.0 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U
Aroclor 5442	ug/kg	18 U	3.6 U	3.6 U	3.6 U	3.7 U	3.7 U	3.8 U	3.8 U	3.7 U	3.7 U	3.6 U	3.7 U	3.6 U	3.5 U	3.6 U	3.6 U
Aroclor 1248	ug/kg	9.4 U	1.8	1.9 U	2.3	1.9 U	1.9 U	2.0 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	1.6 J	1.9 U
Aroclor 1016	ug/kg	9.4 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U	2.0 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U
Aroclor 1262	ug/kg	9.4 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U	2.0 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U
Aroclor 1242	ug/kg	9.4 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U	2.0 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U
Aroclor 5432	ug/kg	18 U	3.6 U	3.6 U	3.6 U	3.7 U	3.7 U	3.8 U	3.8 U	3.7 U	3.7 U	3.6 U	3.7 U	3.6 U	3.5 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

Appendix A4
Dioxins and PCBs - Validated Data
HSA-5C

Sample Name		SL-022-SA5C-SB-9.0-10.0	SL-024-SA5C-SS-0.0-0.5	SL-024-SA5C-SB-4.0-5.0	SL-024-SA5C-SB-9.0-10.0	SL-025-SA5C-SB-4.0-5.0	SL-025-SA5C-SB-9.0-10.0	SL-026-SA5C-SS-0.0-0.5	SL-026-SA5C-SB-4.0-5.0	SL-026-SA5C-SB-9.0-10.0	SL-027-SA5C-SS-0.0-0.5	SL-027-SA5C-SB-2.5-3.5	SL-027-SA5C-SB-9.0-10.0	SL-028-SA5C-SB-4.0-5.0	SL-030-SA5C-SB-4.0-5.0	SL-030-SA5C-SB-9.0-10.0	SL-031-SA5C-SB-4.0-5.0
Sample Date		12/09/2010	10/26/2010	12/06/2010	12/06/2010	12/06/2010	12/06/2010	10/25/2010	12/07/2010	12/07/2010	10/25/2010	12/07/2010	12/07/2010	12/06/2010	12/03/2010	12/03/2010	12/03/2010
SDG		DE033	DE004	DX013	DX013	DX013	DX013	DE004	DE030	DE030	DE004	DE030	DE030	DE029	DE028	DE028	DE028
Start Depth		9	0	4	9	4	9	0	4	9	0	2.5	9	4	4	9	4
End Depth		10	0.5	5	10	5	10	0.5	5	10	0.5	3.5	10	5	5	10	5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
2,3,7,8-TCDD	ng/kg	1.15 U	1.10 U	1.10 U	1.09 U	1.12 U	1.10 U	1.08 U	1.10 U	1.14 U	1.10 U	1.11 U	1.14 U	--	1.11 U	1.14 U	1.13 U
1,2,3,7,8,9-HxCDD	ng/kg	5.74 U	2.02 J	5.49 U	5.45 U	0.686 J	0.404 J	0.665 J	0.217 J	0.0827 J	0.278 J	0.252 J	0.0418 J	--	0.335 J	5.68 U	0.569 J
OCDD	ng/kg	11.5 U	876	11.0 U	10.9 U	449	961	308	11.0 U	11.4 U	238	11.1 U	11.4 U	--	31.7	83.7	5.59 J
1,2,3,4,6,7,8-HpCDD	ng/kg	5.74 U	86.2	5.49 U	5.45 U	25.9	34.4	31.4	5.49 U	5.69 U	15.5	5.57 U	5.71 U	--	2.58 J	8.79	0.689 J
OCDF	ng/kg	11.5 U	28.4	11.0 U	10.9 U	8.13 J	5.48 J	7.24 J	11.0 U	11.4 U	5.32 J	11.1 U	11.4 U	--	11.1 U	11.4 U	11.3 U
1,2,3,4,7,8-HxCDD	ng/kg	0.0179 J	1.10 J	5.49 U	0.0286 J	0.303 J	0.173 J	0.394 J	0.0329 J	0.0341 J	0.101 J	0.0271 J	0.0272 J	--	5.56 U	5.68 U	5.63 U
1,2,3,7,8-PeCDD	ng/kg	5.74 U	0.907 J	5.49 U	5.45 U	0.313 J	5.51 U	5.42 U	0.0527 J	0.0228 J	5.49 U	0.0501 J	0.0502 J	--	5.56 U	5.68 U	5.63 U
2,3,7,8-TCDF	ng/kg	0.0221 J	0.157 J	1.10 U	1.09 U	0.0903 J	1.10 U	1.08 U	1.10 U	1.14 U	1.10 U	0.0267 J	1.14 U	--	1.11 U	1.14 U	1.13 U
1,2,3,4,7,8,9-HpCDF	ng/kg	5.74 U	1.22 J	5.49 U	5.45 U	5.59 U	5.51 U	0.358 J	5.49 U	5.69 U	5.49 U	5.57 U	5.71 U	--	5.56 U	5.68 U	5.63 U
2,3,4,7,8-PeCDF	ng/kg	5.74 U	1.17 J	5.49 U	5.45 U	5.59 U	5.51 U	0.766 J	5.49 U	5.69 U	0.322 J	5.57 U	5.71 U	--	5.56 U	5.68 U	5.63 U
1,2,3,7,8-PeCDF	ng/kg	5.74 U	0.710 J	5.49 U	5.45 U	0.347 J	5.51 U	0.877 J	5.49 U	5.69 U	0.562 J	5.57 U	5.71 U	--	5.56 U	5.68 U	5.63 U
1,2,3,6,7,8-HxCDF	ng/kg	5.74 U	0.812 J	5.49 U	5.45 U	0.246 J	0.188 J	0.318 J	5.49 U	5.69 U	0.140 J	5.57 U	5.71 U	--	5.56 U	5.68 U	5.63 U
1,2,3,6,7,8-HxCDD	ng/kg	5.74 U	4.21 J	5.49 U	5.45 U	0.976 J	0.742 J	1.48 J	0.153 J	0.0839 J	0.496 J	0.146 J	5.71 U	--	0.272 J	0.162 J	0.359 J
2,3,4,6,7,8-HxCDF	ng/kg	5.74 U	1.16 J	5.49 U	5.45 U	0.268 J	5.51 U	0.466 J	5.49 U	5.69 U	0.186 J	5.57 U	5.71 U	--	5.56 U	5.68 U	5.63 U
1,2,3,4,6,7,8-HpCDF	ng/kg	5.74 U	11.2	5.49 U	5.45 U	2.67 J	2.04 J	4.75 J	5.49 U	5.69 U	2.00 J	5.57 U	5.71 U	--	5.56 U	5.68 U	5.63 U
1,2,3,4,7,8-HxCDF	ng/kg	5.74 U	0.923 J	5.49 U	5.45 U	5.59 U	5.51 U	0.268 J	5.49 U	5.69 U	0.245 J	5.57 U	5.71 U	--	5.56 U	5.68 U	5.63 U
1,2,3,7,8,9-HxCDF	ng/kg	5.74 U	0.350 J	5.49 U	5.45 U	5.59 U	5.51 U	0.258 J	5.49 U	5.69 U	5.49 U	5.57 U	5.71 U	--	5.56 U	5.68 U	0.488 J
Aroclor 1260	ug/kg	--	4.1 J	1.9 U	1.9 U	0.56 J	1.9 U	1.1 J	1.9 U	1.9 U	1.2 J	1.9 U	1.9 U	1.3 J	1.9 U	1.9 U	1.9 U
Aroclor 1254	ug/kg	--	7.0 J	1.9 U	1.9 U	0.50 J	0.60 J	1.9	1.9 U	1.9 U	0.62 J	1.9 U	1.9 U	1.1 J	1.9 U	1.9 U	1.9 U
Aroclor 1268	ug/kg	--	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Aroclor 1221	ug/kg	--	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Aroclor 5460	ug/kg	--	7.4 J	3.6 U	3.6 U	3.7 U	3.6 U	3.0 J	3.6 U	3.8 U	1.9 J	3.7 U	3.8 U	7.0 J	3.7 U	3.8 U	3.7 U
Aroclor 1232	ug/kg	--	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Aroclor 5442	ug/kg	--	3.6 U	3.6 U	3.6 U	3.7 U	3.6 U	3.6 U	3.6 U	3.8 U	3.6 U	3.7 U	3.8 U	3.6 U	3.7 U	3.8 U	3.7 U
Aroclor 1248	ug/kg	--	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	0.67 J	1.9 U	1.9 U	1.9 U
Aroclor 1016	ug/kg	--	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Aroclor 1262	ug/kg	--	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Aroclor 1242	ug/kg	--	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Aroclor 5432	ug/kg	--	3.6 U	3.6 U	3.6 U	3.7 U	3.6 U	3.6 U	3.6 U	3.8 U	3.6 U	3.7 U	3.8 U	3.6 U	3.7 U	3.8 U	3.7 U

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

Appendix A4
Dioxins and PCBs - Validated Data
HSA-5C

Sample Name		SL-031-SA5C-SB-9.0-10.0	SL-032-SA5C-SS-0.0-0.5	SL-032-SA5C-SB-4.0-5.0	SL-033-SA5C-SS-0.0-0.5	SL-036-SA5C-SS-0.0-0.5	SL-036-SA5C-SB-4.0-5.0	SL-037-SA5C-SB-3.5-4.5	SL-038-SA5C-SS-0.0-0.5	SL-038-SA5C-SB-4.0-5.0	SL-039-SA5C-SS-0.0-0.5	SL-039-SA5C-SB-4.0-5.0	SL-040-SA5C-SB-4.0-5.0	SL-040-SA5C-SB-9.0-10.0	SL-041-SA5C-SS-0.0-0.5	SL-041-SA5C-SB-4.0-5.0	SL-042-SA5C-SS-0.0-0.5
Sample Date		12/03/2010	10/25/2010	12/03/2010	10/26/2010	01/04/2011	12/02/2010	12/02/2010	10/25/2010	01/05/2011	01/04/2011	12/02/2010	12/02/2010	12/02/2010	10/25/2010	02/04/2011	11/19/2010
SDG		DE028	DE004	DE028	DE004	DE052	DE027	DE027	DE004	DE053	DE052	DE027	DE027	DE027	DE004	DE076	DE020
Start Depth		9	0	4	0	0	4	3.5	0	4	0	4	4	9	0	4	0
End Depth		10	0.5	5	0.5	0.5	5	4.5	0.5	5	0.5	5	5	10	0.5	5	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
2,3,7,8-TCDD	ng/kg	1.15 U	0.0417 J	1.08 UJ	1.07 U	1.19 U	1.15 U	1.14 U	0.0183 J	1.11 U	1.14 U	1.08 U	1.14 U	1.15 U	0.261 J	0.0495 J	0.220 J
1,2,3,7,8,9-HxCDD	ng/kg	5.74 U	1.00 J	5.42 UJ	0.557 J	0.394 J	5.75 U	5.71 U	0.283 J	0.102 J	0.355 J	5.39 U	5.69 U	5.76 U	2.55 J	1.53 J	2.70 J
OCDD	ng/kg	11.5 U	452	4.45 J	216	214	11.5 U	11.4 U	70.2	11.1 U	123	10.8 U	11.4 U	11.5 U	98.9 J	4.94 J	1610 J
1,2,3,4,6,7,8-HpCDD	ng/kg	5.74 U	46.4	0.603 J	21.5	16.3	5.75 U	5.71 U	8.06	5.56 U	17.8	5.39 U	5.69 U	5.76 U	16.0 J	6.21	124
OCDF	ng/kg	11.5 U	12.4	10.8 U	4.85 J	1.94 J	11.5 U	11.4 U	2.07 J	11.1 U	2.72 J	10.8 U	11.4 U	11.5 U	4.93 J	11.4 U	37.3 J
1,2,3,4,7,8-HxCDD	ng/kg	5.74 U	0.666 J	5.42 UJ	0.182 J	0.187 J	5.75 U	5.71 U	0.124 J	0.0343 J	0.0795 J	5.39 U	5.69 U	5.76 U	1.35 J	0.706 J	1.49 J
1,2,3,7,8-PeCDD	ng/kg	5.74 U	0.333 J	5.42 UJ	0.133 J	5.95 U	5.75 U	5.71 U	5.38 U	5.56 U	5.72 U	5.39 U	5.69 U	5.76 U	2.75 J	0.933 J	0.751 J
2,3,7,8-TCDF	ng/kg	1.15 U	0.227 J	1.08 UJ	0.0476 J	1.19 U	1.15 U	1.14 U	1.08 U	1.11 U	1.14 U	1.08 U	1.14 U	1.15 U	5.36 UJ	1.14 U	1.53
1,2,3,4,7,8,9-HpCDF	ng/kg	5.74 U	0.709 J	5.42 UJ	5.37 U	5.95 U	5.75 U	5.71 U	5.38 U	5.56 U	0.183 J	5.39 U	5.69 U	5.76 U	1.49 J	0.819 J	1.81 J
2,3,4,7,8-PeCDF	ng/kg	5.74 U	5.58 U	5.42 UJ	5.37 U	5.95 U	5.75 U	5.71 U	5.38 U	5.56 U	5.72 U	5.39 U	5.69 U	5.76 U	5.60 J	0.929 J	2.70 J
1,2,3,7,8-PeCDF	ng/kg	5.74 U	1.22 J	5.42 UJ	0.188 J	0.467 J	5.75 U	5.71 U	0.184 J	5.56 U	0.346 J	5.39 U	5.69 U	5.76 U	1.19 J	5.70 U	0.677 J
1,2,3,6,7,8-HxCDF	ng/kg	5.74 U	0.545 J	5.42 UJ	0.330 J	0.197 J	5.75 U	5.71 U	5.38 U	5.56 U	0.127 J	5.39 U	5.69 U	5.76 U	3.38 J	1.00 J	1.42 J
1,2,3,6,7,8-HxCDD	ng/kg	5.74 U	2.10 J	5.42 UJ	0.760 J	0.733 J	5.75 U	5.71 U	0.369 J	0.0618 J	0.770 J	5.39 U	5.69 U	5.76 U	3.73 J	2.26 J	4.60 J
2,3,4,6,7,8-HxCDF	ng/kg	5.74 U	0.620 J	5.42 UJ	0.158 J	5.95 U	5.75 U	5.71 U	5.38 U	5.56 U	5.72 U	5.39 U	5.69 U	5.76 U	3.39 J	0.725 J	2.08 J
1,2,3,4,6,7,8-HpCDF	ng/kg	5.74 U	6.86	5.42 U	2.36 J	2.28 J	5.75 U	5.71 U	0.954 J	5.56 U	2.64 J	5.39 U	5.69 U	5.76 U	6.18 J	1.59 J	19.1 J
1,2,3,4,7,8-HxCDF	ng/kg	5.74 U	0.713 J	5.42 UJ	0.159 J	0.198 J	5.75 U	5.71 U	0.154 J	5.56 U	0.178 J	5.39 U	5.69 U	5.76 U	6.20 J	4.07 J	1.79 J
1,2,3,7,8,9-HxCDF	ng/kg	5.74 U	0.278 J	5.42 UJ	5.37 U	0.265 J	5.75 U	5.71 U	5.38 U	5.56 U	5.72 U	5.39 U	5.69 U	5.76 U	3.27 J	1.91 J	5.22 UJ
Aroclor 1260	ug/kg	2.0 U	4.4	1.8 U	0.62 J	0.69 J	2.0 U	1.9 U	1.8 U	1.9 U	0.76 J	1.8 U	1.9 U	2.0 U	3.6 U	1.9 U	12
Aroclor 1254	ug/kg	2.0 U	7.4	1.8 U	0.82 J	2.0 U	2.0 U	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U	2.0 U	31	23	13
Aroclor 1268	ug/kg	2.0 U	1.9 U	1.8 U	1.8 U	2.0 U	2.0 U	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U	2.0 U	3.6 U	1.9 U	8.9 U
Aroclor 1221	ug/kg	2.0 U	1.9 U	1.8 U	1.8 U	2.0 U	2.0 U	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U	2.0 U	3.6 U	1.9 U	8.9 U
Aroclor 5460	ug/kg	3.8 U	5.5	3.6 U	8.0	3.9 U	3.8 U	3.8 U	3.6 U	3.7 U	5.9	3.6 U	3.8 U	3.8 U	3.5 J	3.8 U	37
Aroclor 1232	ug/kg	2.0 U	1.9 U	1.8 U	1.8 U	2.0 U	2.0 U	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U	2.0 U	3.6 U	1.9 U	8.9 U
Aroclor 5442	ug/kg	3.8 U	3.7 U	3.6 U	3.5 U	3.9 U	3.8 U	3.8 U	3.6 U	3.7 U	3.8 U	3.6 U	3.8 U	3.8 U	7.1 U	3.8 U	17 U
Aroclor 1248	ug/kg	2.0 U	1.9 U	1.8 U	1.8 U	2.0 U	2.0 U	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U	2.0 U	3.6 U	1.9 U	8.9 U
Aroclor 1016	ug/kg	2.0 U	1.9 U	1.8 U	1.8 U	2.0 U	2.0 U	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U	2.0 U	3.6 U	1.9 U	8.9 U
Aroclor 1262	ug/kg	2.0 U	1.9 U	1.8 U	1.8 U	2.0 U	2.0 U	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U	2.0 U	3.6 U	1.9 U	8.9 U
Aroclor 1242	ug/kg	2.0 U	1.9 U	1.8 U	1.8 U	2.0 U	2.0 U	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U	2.0 U	3.6 U	1.9 U	8.9 U
Aroclor 5432	ug/kg	3.8 U	3.7 U	3.6 U	3.5 U	3.9 U	3.8 U	3.8 U	3.6 U	3.7 U	3.8 U	3.6 U	3.8 U	3.8 U	7.1 U	3.8 U	17 U

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

Appendix A4
Dioxins and PCBs - Validated Data
HSA-5C

Sample Name		SL-043-SA5C-SS-0.0-0.5	SL-043-SA5C-SB-2.0-3.0	SL-044-SA5C-SB-4.0-5.0	SL-044-SA5C-SB-9.0-10.0	SL-045-SA5C-SS-0.0-0.5	SL-045-SA5C-SB-4.0-5.0	SL-045-SA5C-SB-8.0-9.0	SL-046-SA5C-SB-4.0-5.0	SL-046-SA5C-SB-9.0-10.0	SL-047-SA5C-SS-0.0-0.5	SL-047-SA5C-SB-4.0-5.0	SL-049-SA5C-SS-0.0-0.5	SL-050-SA5C-SS-0.0-0.5	SL-050-SA5C-SB-4.0-5.0	SL-050-SA5C-SB-9.0-10.0	SL-051-SA5C-SS-0.0-0.5
Sample Date		10/25/2010	11/30/2010	12/01/2010	12/01/2010	10/25/2010	12/01/2010	12/01/2010	12/01/2010	12/01/2010	10/25/2010	12/01/2010	10/22/2010	10/22/2010	11/22/2010	11/22/2010	10/21/2010
SDG		DE004	DE025	DE026	DE026	DE004	DE026	DE026	DE026	DE026	DE004	DE026	DE003	DE003	DE021	DE021	DX002
Start Depth		0	2	4	9	0	4	8	4	9	0	4	0	0	4	9	0
End Depth		0.5	3	5	10	0.5	5	9	5	10	0.5	5	0.5	0.5	5	10	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
2,3,7,8-TCDD	ng/kg	0.190 J	1.10 U	1.16 U	1.14 U	1.08 U	1.11 U	1.08 U	1.08 U	1.09 U	0.0145 J	1.16 U	1.10 U	1.11 U	0.0312 J	0.0264 J	0.0783 J
1,2,3,7,8,9-HxCDD	ng/kg	8.01	5.51 U	5.80 U	5.68 U	0.627 J	5.56 U	5.38 U	0.263 J	5.43 U	0.129 J	5.78 U	0.577 J	5.53 U	5.46 U	0.164 J	1.24 J
OCDD	ng/kg	2730	11.0 U	11.6 U	2.86 J	558	11.1 U	1.14 J	260	10.9 U	50.9	11.6 U	271	93.0	10.9 U	6.62 J	365 J
1,2,3,4,6,7,8-HpCDD	ng/kg	333	5.51 U	5.80 U	5.68 U	43.7	5.56 U	5.38 U	21.3	5.43 U	3.87 J	5.78 U	26.2	7.96	5.46 U	5.65 U	34.4
OCDF	ng/kg	112	11.0 U	11.6 U	11.4 U	9.68 J	11.1 U	10.8 U	12.6	10.9 U	1.31 J	11.6 U	8.42 J	2.71 J	10.9 U	11.3 U	8.16 J
1,2,3,4,7,8-HxCDD	ng/kg	4.88 J	5.51 U	5.80 U	5.68 U	0.136 J	5.56 U	5.38 U	5.39 U	5.43 U	0.0311 J	5.78 U	0.239 J	5.53 U	5.46 U	5.65 U	0.487 J
1,2,3,7,8-PeCDD	ng/kg	1.87 J	5.51 U	5.80 U	5.68 U	0.195 J	5.56 U	5.38 U	5.39 U	5.43 U	5.36 U	5.78 U	5.49 U	5.53 U	0.0379 J	0.0563 J	0.477 J
2,3,7,8-TCDF	ng/kg	0.800 J	1.10 U	1.16 U	1.14 U	1.08 U	1.11 U	1.08 U	1.08 U	1.09 U	1.07 U	1.16 U	1.10 U	0.0320 J	1.09 U	1.13 U	0.774 J
1,2,3,4,7,8,9-HpCDF	ng/kg	2.73 J	5.51 U	5.80 U	5.68 U	0.788 J	5.56 U	5.38 U	5.39 U	5.43 U	5.36 U	5.78 U	0.371 J	5.53 U	5.46 U	5.65 U	0.486 J
2,3,4,7,8-PeCDF	ng/kg	1.57 J	5.51 U	5.80 U	5.68 U	1.10 J	5.56 U	5.38 U	5.39 U	5.43 U	5.36 U	5.78 U	0.834 J	5.53 U	5.46 U	5.65 U	1.01 J
1,2,3,7,8-PeCDF	ng/kg	2.48 J	5.51 U	5.80 U	5.68 U	0.323 J	5.56 U	5.38 U	5.39 U	5.43 U	5.36 U	5.78 U	0.362 J	0.291 J	5.46 U	5.65 U	1.13 J
1,2,3,6,7,8-HxCDF	ng/kg	1.56 J	5.51 U	5.80 U	5.68 U	0.662 J	5.56 U	5.38 U	5.39 U	5.43 U	5.36 U	5.78 U	0.425 J	5.53 U	5.46 U	5.65 U	0.876 J
1,2,3,6,7,8-HxCDD	ng/kg	13.0	5.51 U	5.80 U	5.68 U	1.37 J	5.56 U	5.38 U	0.408 J	5.43 U	0.107 J	5.78 U	0.898 J	0.365 J	5.46 U	5.65 U	1.61 J
2,3,4,6,7,8-HxCDF	ng/kg	2.15 J	5.51 U	5.80 U	5.68 U	0.664 J	5.56 U	5.38 U	5.39 U	5.43 U	5.36 U	5.78 U	0.581 J	5.53 U	5.46 U	5.65 U	0.982 J
1,2,3,4,6,7,8-HpCDF	ng/kg	40.5	5.51 U	5.80 U	5.68 U	6.51	5.56 U	5.38 U	2.53 J	5.43 U	0.668 J	5.78 U	3.51 J	1.19 J	5.46 U	5.65 U	5.19 J
1,2,3,4,7,8-HxCDF	ng/kg	3.27 J	5.51 U	5.80 U	5.68 U	0.885 J	5.56 U	5.38 U	5.39 U	5.43 U	5.36 U	5.78 U	0.537 J	0.584 J	5.46 U	5.65 U	0.959 J
1,2,3,7,8,9-HxCDF	ng/kg	0.733 J	5.51 U	5.80 U	5.68 U	0.775 J	5.56 U	5.38 U	5.39 U	5.43 U	5.36 U	5.78 U	5.49 U	5.53 U	5.46 U	5.65 U	0.359 J
Aroclor 1260	ug/kg	4.9	1.9 U	2.0 U	1.9 U	1.3 J	1.9 U	1.8 U	3.5	1.8 U	1.8 U	2.0 U	1.4 J	2.6	0.88 J	1.9 U	5.8 J
Aroclor 1254	ug/kg	3.3	1.9 U	2.0 U	1.9 U	2.3	1.9 U	1.8 U	1.4 J	1.8 U	0.69 J	2.0 U	3.2 J	1.9 U	0.94 J	1.9 U	7.3 J
Aroclor 1268	ug/kg	1.9 U	1.9 U	2.0 U	1.9 U	1.8 U	1.9 U	1.8 U	1.8 U	1.8 U	1.8 U	2.0 U	1.9 UJ	1.9 U	1.9 U	1.9 U	1.9 U
Aroclor 1221	ug/kg	1.9 U	1.9 U	2.0 U	1.9 U	1.8 U	1.9 U	1.8 U	1.8 U	1.8 U	1.8 U	2.0 U	1.9 UJ	1.9 U	1.9 U	1.9 U	1.9 UJ
Aroclor 5460	ug/kg	28	3.6 U	3.8 U	3.8 U	3.6 U	3.7 U	3.5 U	16	3.6 U	3.5 U	3.8 U	2.6 J	3.7 U	2.8 J	3.7 U	9.7
Aroclor 1232	ug/kg	1.9 U	1.9 U	2.0 U	1.9 U	1.8 U	1.9 U	1.8 U	1.8 U	1.8 U	1.8 U	2.0 U	1.9 UJ	1.9 U	1.9 U	1.9 U	1.9 UJ
Aroclor 5442	ug/kg	3.7 U	3.6 U	3.8 U	3.8 U	3.6 U	3.7 U	3.5 U	3.6 U	3.6 U	3.5 U	3.8 U	3.6 UJ	3.7 U	3.6 U	3.7 U	3.7 U
Aroclor 1248	ug/kg	1.9 U	1.9 U	2.0 U	1.9 U	1.8 U	1.9 U	1.8 U	1.8 U	1.8 U	1.8 U	2.0 U	1.9 UJ	1.9 U	1.9 U	1.9 U	1.9 U
Aroclor 1016	ug/kg	1.9 U	1.9 U	2.0 U	1.9 U	1.8 U	1.9 U	1.8 U	1.8 U	1.8 U	1.8 U	2.0 U	1.9 UJ	1.9 U	1.9 U	1.9 U	1.9 UJ
Aroclor 1262	ug/kg	1.9 U	1.9 U	2.0 U	1.9 U	1.8 U	1.9 U	1.8 U	1.8 U	1.8 U	1.8 U	2.0 U	1.9 UJ	1.9 U	1.9 U	1.9 U	1.9 U
Aroclor 1242	ug/kg	1.9 U	1.9 U	2.0 U	1.9 U	1.8 U	1.9 U	1.8 U	1.8 U	1.8 U	1.8 U	2.0 U	1.9 UJ	1.9 U	1.9 U	1.9 U	1.9 U
Aroclor 5432	ug/kg	3.7 U	3.6 U	3.8 U	3.8 U	3.6 U	3.7 U	3.5 U	3.6 U	3.6 U	3.5 U	3.8 U	3.6 UJ	3.7 U	3.6 U	3.7 U	3.7 U

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

Appendix A4
Dioxins and PCBs - Validated Data
HSA-5C

Sample Name		SL-051-SA5C-SB-3.0-4.0	SL-052-SA5C-SS-0.0-0.5	SL-052-SA5C-SB-2.5-3.0	SL-053-SA5C-SS-0.0-0.5	SL-053-SA5C-SB-3.0-4.0	SL-054-SA5C-SS-0.0-0.5	SL-054-SA5C-SB-3.0-4.0	SL-056-SA5C-SS-0.0-0.5	SL-056-SA5C-SB-4.0-5.0	SL-056-SA5C-SB-9.0-10.0	SL-057-SA5C-SS-0.0-0.5	SL-057-SA5C-SB-4.0-5.0	SL-057-SA5C-SB-7.0-8.0	SL-058-SA5C-SB-3.0-4.0	SL-059-SA5C-SB-1.0-2.0	SL-059-SA5C-SB-9.0-10.0
Sample Date		11/19/2010	10/21/2010	11/19/2010	10/22/2010	11/22/2010	10/21/2010	11/18/2010	10/22/2010	01/04/2011	01/04/2011	10/22/2010	11/30/2010	11/30/2010	11/29/2010	11/29/2010	11/29/2010
SDG		DE020	DX002	DE020	DE003	DE021	DX002	DE019	DE003	DE052	DE052	DE003	DE025	DE025	DX011	DX011	DX011
Start Depth		3	0	2.5	0	3	0	3	0	4	9	0	4	7	3	1	9
End Depth		4	0.5	3	0.5	4	0.5	4	0.5	5	10	0.5	5	8	4	2	10
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
2,3,7,8-TCDD	ng/kg	1.11 U	0.0843 J	1.10 U	1.10 U	0.0323 J	0.0280 J	1.13 U	2.51	1.17 U	1.14 U	2.09	0.557 U	1.08 U	1.05 U	1.10 U	1.19 U
1,2,3,7,8,9-HxCDD	ng/kg	5.57 U	1.03 J	5.48 U	5.51 U	0.249 J	0.887 J	5.64 U	134	0.169 J	1.07 J	91.4	2.78 J	0.132 J	0.520 J	0.434 J	5.97 U
OCDD	ng/kg	11.1 U	117	11.0 U	56.4	26.5	264	11.3 U	76600 J	11.2 J	216	52200 J	10.0 J	41.3	3.60 J	6.82 J	11.9 U
1,2,3,4,6,7,8-HpCDD	ng/kg	5.57 U	16.2	5.48 U	5.01 J	2.86 J	24.4	5.64 U	12900 J	2.35 J	35.9	7210 J	2.34 J	7.09	5.24 U	1.10 J	5.97 U
OCDF	ng/kg	11.1 U	2.84 J	11.0 U	11.0 U	1.52 J	6.61 J	11.3 U	265	11.7 U	1.25 J	103	5.57 U	10.8 U	10.5 U	11.0 U	11.9 U
1,2,3,4,7,8-HxCDD	ng/kg	5.57 U	0.528 J	5.48 U	5.51 U	5.34 U	0.302 J	5.64 U	5.90 U	0.0570 J	0.120 J	21.3	2.78 U	5.41 U	5.24 U	5.51 U	5.97 U
1,2,3,7,8-PeCDD	ng/kg	5.57 U	0.481 J	0.0468 J	5.51 U	0.0737 J	0.378 J	5.64 U	16.9	5.86 U	5.68 U	8.47	2.78 U	5.41 U	5.24 U	5.51 U	0.0220 J
2,3,7,8-TCDF	ng/kg	1.11 U	0.428 J	0.0646 J	0.0285 J	1.07 U	0.435 J	1.13 U	5.57	1.17 U	1.14 U	0.292 J	0.557 U	1.08 U	1.05 U	1.10 U	1.19 U
1,2,3,4,7,8,9-HpCDF	ng/kg	5.57 U	0.388 J	5.48 U	5.51 U	5.34 U	0.344 J	5.64 U	11.0	5.86 U	5.68 U	3.89 J	2.78 U	5.41 U	5.24 U	5.51 U	5.97 U
2,3,4,7,8-PeCDF	ng/kg	5.57 U	0.681 J	5.48 U	5.51 U	5.34 U	0.740 J	5.64 U	15.6	5.86 U	5.68 U	1.00 J	2.78 U	5.41 U	5.24 U	5.51 U	5.97 U
1,2,3,7,8-PeCDF	ng/kg	5.57 U	0.654 J	5.48 U	0.217 J	5.34 U	0.914 J	5.64 U	4.48 J	5.86 U	0.204 J	0.722 J	2.78 U	5.41 U	5.24 U	5.51 U	5.97 U
1,2,3,6,7,8-HxCDF	ng/kg	5.57 U	0.572 J	5.48 U	5.51 U	5.34 U	0.499 J	5.64 U	9.66	5.86 U	0.176 J	1.62 J	2.78 U	5.41 U	5.24 U	5.51 U	5.97 U
1,2,3,6,7,8-HxCDD	ng/kg	5.57 U	1.08 J	5.48 U	0.239 J	0.220 J	1.10 J	5.64 U	332	0.149 J	1.18 J	155	2.78 J	0.164 J	0.299 J	0.288 J	5.97 U
2,3,4,6,7,8-HxCDF	ng/kg	5.57 U	0.540 J	5.48 U	5.51 U	5.34 U	0.479 J	5.64 U	15.0	5.86 U	0.231 J	2.27 J	2.78 U	5.41 U	5.24 U	5.51 U	5.97 U
1,2,3,4,6,7,8-HpCDF	ng/kg	5.57 U	2.37 J	5.48 U	5.51 U	5.34 U	3.29 J	5.64 U	110	5.86 U	0.905 J	43.3	2.78 U	5.41 U	5.24 U	5.51 U	5.97 U
1,2,3,4,7,8-HxCDF	ng/kg	5.57 U	0.604 J	5.48 U	5.51 U	5.34 U	0.615 J	5.64 U	19.9	5.86 U	0.223 J	3.01 J	2.78 U	5.41 U	5.24 U	5.51 U	5.97 U
1,2,3,7,8,9-HxCDF	ng/kg	5.57 U	0.332 J	5.48 U	5.51 U	5.34 U	0.313 J	5.64 U	2.30 J	5.86 U	0.894 J	0.488 J	2.78 U	5.41 U	0.359 J	0.396 J	5.97 U
Aroclor 1260	ug/kg	1.9 U	2.3	1.9 U	0.71 J	1.8 U	4.2	1.9 U	70	1.2 J	--	1.1 J	1.9 U	1.8 U	1.8 U	1.5 J	2.0 U
Aroclor 1254	ug/kg	1.9 U	1.5 J	1.9 U	1.9 U	1.8 U	11	1.9 U	68	0.50 J	--	1.5 J	1.9 U	1.8 U	1.8 U	1.9 U	2.0 U
Aroclor 1268	ug/kg	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	10 U	2.0 U	--	1.8 U	1.9 U	1.8 U	1.8 U	1.9 U	2.0 U
Aroclor 1221	ug/kg	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 UJ	1.9 U	10 U	2.0 U	--	1.8 U	1.9 U	1.8 U	1.8 U	1.9 U	2.0 U
Aroclor 5460	ug/kg	3.7 U	3.5 U	3.6 U	3.6 U	3.5 U	6.5	3.7 U	66	1.8 J	--	2.3 J	3.7 U	3.6 U	3.5 U	1.7 J	3.9 U
Aroclor 1232	ug/kg	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 UJ	1.9 U	10 U	2.0 U	--	1.8 U	1.9 U	1.8 U	1.8 U	1.9 U	2.0 U
Aroclor 5442	ug/kg	3.7 U	3.5 UJ	3.6 U	3.6 U	3.5 U	3.7 U	3.7 U	19 U	3.9 U	--	3.5 U	3.7 U	3.6 U	3.5 U	3.6 U	3.9 U
Aroclor 1248	ug/kg	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	10 U	2.0 U	--	1.8 U	1.9 U	1.8 U	1.8 U	1.9 U	2.0 U
Aroclor 1016	ug/kg	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 UJ	1.9 U	10 U	2.0 U	--	1.8 U	1.9 U	1.8 U	1.8 U	1.9 U	2.0 U
Aroclor 1262	ug/kg	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	10 U	2.0 U	--	1.8 U	1.9 U	1.8 U	1.8 U	1.9 U	2.0 U
Aroclor 1242	ug/kg	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	10 U	2.0 U	--	1.8 U	1.9 U	1.8 U	1.8 U	1.9 U	2.0 U
Aroclor 5432	ug/kg	3.7 U	3.5 UJ	3.6 U	3.6 U	3.5 U	3.7 U	3.7 U	19 U	3.9 U	--	3.5 U	3.7 U	3.6 U	3.5 U	3.6 U	3.9 U

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

Appendix A4
Dioxins and PCBs - Validated Data
HSA-5C

Sample Name		SL-060-SA5C-SS-0.0-0.5	SL-060-SA5C-SB-4.0-5.0	SL-060-SA5C-SB-9.0-10.0	SL-060-SA5C-SB-10.0-11.0	SL-061-SA5C-SS-0.0-0.5	SL-061-SA5C-SB-4.0-5.0	SL-061-SA5C-SB-9.0-10.0	SL-062-SA5C-SS-0.0-0.5	SL-062-SA5C-SB-2.5-3.5	SL-063-SA5C-SB-4.0-5.0	SL-064-SA5C-SB-4.0-5.0	SL-065-SA5C-SS-0.0-0.5	SL-065-SA5C-SB-2.5-3.5	SL-066-SA5C-SS-0.0-0.5	SL-066-SA5C-SB-3.0-4.0	SL-067-SA5C-SS-0.0-0.5
Sample Date		10/22/2010	11/23/2010	11/23/2010	12/14/2010	10/22/2010	11/24/2010	11/24/2010	10/22/2010	11/23/2010	11/24/2010	11/24/2010	10/22/2010	11/23/2010	10/22/2010	11/22/2010	10/21/2010
SDG		DE003	DE022	DE022	DE039	DE003	DE023	DE023	DE003	DE022	DE023	DE023	DE003	DE022	DE003	DE021	DX002
Start Depth		0	4	9	10	0	4	9	0	2.5	4	4	0	2.5	0	3	0
End Depth		0.5	5	10	11	0.5	5	10	0.5	3.5	5	5	0.5	3.5	0.5	4	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
2,3,7,8-TCDD	ng/kg	0.0385 J	0.0466 J	0.0509 J	1.15 U	0.0173 J	0.0397 J	1.03 U	1.15 UJ	0.0900 J	0.0322 J	0.0332 J	1.13 U	0.0281 J	1.16 U	0.0309 J	0.0441 J
1,2,3,7,8,9-HxCDD	ng/kg	0.792 J	0.658 J	0.892 J	5.74 U	0.388 J	0.247 J	5.15 U	0.888 J	5.46 U	5.59 U	5.77 U	1.26 J	5.22 U	2.59 J	5.39 U	0.963 J
OCDD	ng/kg	871	4.37 J	8.57 J	19.0	185	27.9	184	715 J	10.9 U	11.2 U	11.5 U	653	10.4 U	3340	10.8 U	203
1,2,3,4,6,7,8-HpCDD	ng/kg	54.9	5.35 U	0.916 J	1.38 J	15.7	2.55 J	24.3	47.3 J	5.46 U	5.59 U	5.77 U	49.2	5.22 U	206	5.39 U	22.7
OCDF	ng/kg	7.79 J	10.7 U	11.1 U	11.5 U	4.25 J	11.0 U	1.53 J	30.5 J	10.9 U	11.2 U	11.5 U	11.8	10.4 U	41.2	10.8 U	5.68 J
1,2,3,4,7,8-HxCDD	ng/kg	0.241 J	5.35 U	5.56 U	5.74 U	0.163 J	5.52 U	5.15 U	0.326 J	5.46 U	5.59 U	5.77 U	0.402 J	5.22 U	0.894 J	5.39 U	0.372 J
1,2,3,7,8-PeCDD	ng/kg	0.148 J	0.181 J	0.119 J	5.74 U	0.124 J	0.0826 J	0.0577 J	0.199 J	0.0717 J	0.0848 J	0.0550 J	5.66 U	0.0368 J	5.81 U	0.0520 J	0.383 J
2,3,7,8-TCDF	ng/kg	1.08 U	1.07 U	0.0849 J	1.15 U	1.09 U	1.10 U	1.03 U	0.197 J	1.09 U	1.12 U	1.15 U	0.245 J	1.04 U	1.16 U	1.08 U	0.530 J
1,2,3,4,7,8,9-HpCDF	ng/kg	5.39 U	5.35 U	5.56 U	5.74 U	5.44 U	5.52 U	5.15 U	1.61 J	5.46 U	5.59 U	5.77 U	0.729 J	5.22 U	1.79 J	5.39 U	0.375 J
2,3,4,7,8-PeCDF	ng/kg	5.39 U	5.35 U	5.56 U	5.74 U	5.44 U	5.52 U	5.15 U	0.739 J	5.46 U	5.59 U	5.77 U	0.863 J	5.22 U	0.963 J	5.39 U	0.824 J
1,2,3,7,8-PeCDF	ng/kg	0.305 J	5.35 U	5.56 U	5.74 U	0.325 J	5.52 U	5.15 U	0.637 J	5.46 U	5.59 U	5.77 U	1.13 J	5.22 UJ	1.99 J	5.39 U	0.969 J
1,2,3,6,7,8-HxCDF	ng/kg	0.275 J	5.35 U	5.56 U	5.74 U	0.196 J	5.52 U	5.15 U	1.27 J	5.46 U	5.59 U	5.77 U	0.596 J	5.22 U	1.02 J	5.39 U	0.730 J
1,2,3,6,7,8-HxCDD	ng/kg	1.10 J	0.416 J	0.562 J	5.74 U	0.517 J	0.256 J	0.300 J	1.29 J	5.46 U	5.59 U	5.77 U	1.85 J	5.22 UJ	5.77 J	5.39 U	1.14 J
2,3,4,6,7,8-HxCDF	ng/kg	0.276 J	5.35 U	5.56 U	5.74 U	0.236 J	5.52 U	5.15 U	1.02 J	5.46 U	5.59 U	5.77 U	0.607 J	5.22 U	1.24 J	5.39 U	0.779 J
1,2,3,4,6,7,8-HpCDF	ng/kg	3.24 J	5.35 U	5.56 U	5.74 U	1.96 J	5.52 U	5.15 U	10.7 J	5.46 U	5.59 U	5.77 U	5.34 J	5.22 U	18.7	5.39 U	4.10 J
1,2,3,4,7,8-HxCDF	ng/kg	0.280 J	5.35 U	5.56 U	5.74 U	5.44 U	5.52 U	5.15 U	1.22 J	5.46 U	5.59 U	5.77 U	0.691 J	5.22 U	2.61 J	5.39 U	0.788 J
1,2,3,7,8,9-HxCDF	ng/kg	0.337 J	0.669 J	0.803 J	5.74 U	5.44 U	5.52 U	5.15 U	0.454 J	5.46 U	5.59 U	5.77 U	0.646 J	5.22 UJ	1.63 J	5.39 U	0.450 J
Aroclor 1260	ug/kg	3.7	1.8 U	0.50 J	2.0 U	1.3 J	1.9 U	1.8 U	1.1 J	1.9 U	1.9 U	2.0 U	4.5 J	1.8 U	8.8 J	1.8 U	3.0
Aroclor 1254	ug/kg	5.6	1.8 U	1.9 U	1.2 J	1.9	1.9 U	1.8 U	2.1	1.9 U	1.9 U	2.0 U	3.4 J	1.8 U	16	1.8 U	5.2
Aroclor 1268	ug/kg	1.8 U	1.8 U	1.9 U	2.0 U	1.8 U	1.9 U	1.8 U	2.0 U	1.9 U	1.9 U	2.0 U	1.9 UJ	1.8 U	9.9 U	1.8 U	1.9 U
Aroclor 1221	ug/kg	1.8 U	1.8 U	1.9 U	2.0 U	1.8 U	1.9 U	1.8 U	2.0 U	1.9 U	1.9 U	2.0 U	1.9 UJ	1.8 U	9.9 U	1.8 U	1.9 UJ
Aroclor 5460	ug/kg	11	3.5 U	3.7 U	3.8 UJ	1.5 J	3.6 U	3.4 U	2.6 J	3.6 U	3.7 U	3.8 U	4.4 J	3.4 U	6.9 J	3.6 U	11
Aroclor 1232	ug/kg	1.8 U	1.8 U	1.9 U	2.0 U	1.8 U	1.9 U	1.8 U	2.0 U	1.9 U	1.9 U	2.0 U	1.9 UJ	1.8 U	9.9 U	1.8 U	1.9 UJ
Aroclor 5442	ug/kg	3.6 U	3.5 U	3.7 U	3.8 UJ	3.6 U	3.6 U	3.4 U	3.8 U	3.6 U	3.7 U	3.8 U	3.7 UJ	3.4 U	19 U	3.6 U	3.6 U
Aroclor 1248	ug/kg	1.8 U	1.8 U	1.9 U	2.0 U	1.8 U	1.9 U	1.8 U	2.0 U	1.9 U	1.9 U	2.0 U	1.9 UJ	1.8 U	9.9 U	1.8 U	1.9 U
Aroclor 1016	ug/kg	1.8 U	1.8 U	1.9 U	2.0 U	1.8 U	1.9 U	1.8 U	2.0 U	1.9 U	1.9 U	2.0 U	1.9 UJ	1.8 U	9.9 U	1.8 U	1.9 UJ
Aroclor 1262	ug/kg	1.8 U	1.8 U	1.9 U	2.0 U	1.8 U	1.9 U	1.8 U	2.0 U	1.9 U	1.9 U	2.0 U	1.9 UJ	1.8 U	9.9 U	1.8 U	1.9 U
Aroclor 1242	ug/kg	1.8 U	1.8 U	1.9 U	2.0 U	1.8 U	1.9 U	1.8 U	2.0 U	1.9 U	1.9 U	2.0 U	1.9 UJ	1.8 U	9.9 U	1.8 U	1.9 U
Aroclor 5432	ug/kg	3.6 U	3.5 U	3.7 U	3.8 UJ	3.6 U	3.6 U	3.4 U	3.8 U	3.6 U	3.7 U	3.8 U	3.7 UJ	3.4 U	19 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

Appendix A4
Dioxins and PCBs - Validated Data
HSA-5C

Sample Name		SL-067-SA5C-SB-3.0-4.0	SL-068-SA5C-SS-0.0-0.5	SL-068-SA5C-SB-3.5-4.5	SL-070-SA5C-SB-4.0-5.0	SL-070-SA5C-SB-9.0-10.0	SL-071-SA5C-SB-4.0-5.0	SL-071-SA5C-SB-9.0-10.0	SL-072-SA5C-SS-0.0-0.5	SL-072-SA5C-SB-4.0-5.0	SL-072-SA5C-SB-7.5-8.5	SL-073-SA5C-SS-0.0-0.5	SL-074-SA5C-SB-4.0-5.0	SL-074-SA5C-SB-8.0-9.0	SL-075-SA5C-SB-4.0-5.0	SL-075-SA5C-SB-9.0-10.0	SL-076-SA5C-SS-0.0-0.5
Sample Date		11/18/2010	10/21/2010	11/18/2010	11/30/2010	11/30/2010	11/29/2010	11/29/2010	10/21/2010	11/17/2010	11/17/2010	10/27/2010	11/30/2010	11/30/2010	11/29/2010	11/29/2010	10/22/2010
SDG		DE019	DX002	DE019	DE025	DE025	DX011	DX011	DX002	DE018	DE018	DE005	DE025	DE025	DX011	DX011	DE003
Start Depth		3	0	3.5	4	9	4	9	0	4	7.5	0	4	8	4	9	0
End Depth		4	0.5	4.5	5	10	5	10	0.5	5	8.5	0.5	5	9	5	10	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
2,3,7,8-TCDD	ng/kg	0.0841 J	0.0478 J	0.0601 J	0.0473 J	1.15 U	1.21 U	1.13 U	1.08 U	0.0500 J	1.11 U	1.07 U	1.19 U	1.13 U	0.0695 J	1.16 U	1.15 U
1,2,3,7,8,9-HxCDD	ng/kg	0.869 J	0.507 J	5.41 U	1.54 J	5.77 U	0.302 J	5.64 U	0.433 J	5.39 U	5.57 U	2.73 J	0.293 J	5.67 U	0.387 J	5.82 U	0.640 J
OCDD	ng/kg	175	166	10.8 U	19.4	11.5 U	12.1 U	11.3 U	220	10.8 U	11.1 U	891 J	11.9 U	11.3 U	11.9 U	11.6 U	175
1,2,3,4,6,7,8-HpCDD	ng/kg	22.9	16.0	5.41 U	1.43 J	5.77 U	6.04 U	5.64 U	13.7	5.39 U	5.57 U	104 J	5.97 U	5.67 U	5.97 U	5.82 U	13.9
OCDF	ng/kg	5.33 J	4.86 J	10.8 U	1.53 J	11.5 U	12.1 U	11.3 U	4.03 J	10.8 U	11.1 U	32.4 J	11.9 U	11.3 U	11.9 U	11.6 U	6.33 J
1,2,3,4,7,8-HxCDD	ng/kg	0.307 J	0.176 J	5.41 U	5.66 U	5.77 U	6.04 U	5.64 U	0.156 J	5.39 U	5.57 U	1.22 J	5.97 U	5.67 U	5.97 U	5.82 U	5.73 U
1,2,3,7,8-PeCDD	ng/kg	0.319 J	0.204 J	0.0682 J	5.66 U	5.77 U	6.04 U	5.64 U	0.131 J	0.0743 J	0.0284 J	0.789 J	5.97 U	5.67 U	5.97 U	5.82 U	5.73 U
2,3,7,8-TCDF	ng/kg	0.647 J	0.219 J	1.08 U	1.13 U	1.15 U	1.21 U	1.13 U	0.104 J	1.08 U	0.0305 J	0.545 J	1.19 U	1.13 U	1.19 U	1.16 U	0.0711 J
1,2,3,4,7,8,9-HpCDF	ng/kg	5.35 U	0.316 J	5.41 U	5.66 U	5.77 U	6.04 U	5.64 U	0.235 J	5.39 U	5.57 U	1.29 J	5.97 U	5.67 U	5.97 U	5.82 U	5.73 U
2,3,4,7,8-PeCDF	ng/kg	1.40 J	0.497 J	5.41 U	5.66 U	5.77 U	6.04 U	5.64 U	5.39 U	5.39 U	5.57 U	5.35 U	5.97 U	5.67 U	5.97 U	5.82 U	5.73 U
1,2,3,7,8-PeCDF	ng/kg	0.596 J	0.500 J	5.41 U	5.66 U	5.77 U	6.04 U	5.64 U	0.242 J	5.39 U	5.57 U	0.505 J	5.97 U	5.67 U	5.97 U	5.82 U	0.252 J
1,2,3,6,7,8-HxCDF	ng/kg	5.35 U	0.248 J	5.41 U	5.66 U	5.77 U	6.04 U	5.64 U	5.39 U	5.39 U	5.57 U	5.35 UJ	5.97 U	5.67 U	5.97 U	5.82 U	5.73 U
1,2,3,6,7,8-HxCDD	ng/kg	1.17 J	0.710 J	5.41 U	0.750 J	5.77 U	0.208 J	5.64 U	0.519 J	5.39 U	5.57 U	3.55 J	0.192 J	5.67 U	0.294 J	5.82 U	0.629 J
2,3,4,6,7,8-HxCDF	ng/kg	5.35 U	0.371 J	5.41 U	5.66 U	5.77 U	6.04 U	5.64 U	5.39 U	5.39 U	5.57 U	5.35 UJ	5.97 U	5.67 U	5.97 U	5.82 U	5.73 U
1,2,3,4,6,7,8-HpCDF	ng/kg	6.04 U	2.58 J	5.41 U	5.66 U	5.77 U	6.04 U	5.64 U	2.33 J	5.39 U	5.57 U	13.8 J	5.97 U	5.67 U	5.97 U	5.82 U	1.71 J
1,2,3,4,7,8-HxCDF	ng/kg	5.35 U	5.34 U	5.41 U	5.66 U	5.77 U	6.04 U	5.64 U	5.39 U	5.39 U	5.57 U	5.35 UJ	5.97 U	5.67 U	5.97 U	5.82 U	5.73 U
1,2,3,7,8,9-HxCDF	ng/kg	5.35 U	0.360 J	5.41 U	5.66 U	5.77 U	0.394 J	5.64 U	0.144 J	5.39 U	5.57 U	5.35 UJ	0.441 J	5.67 U	0.612 J	5.82 U	0.547 J
Aroclor 1260	ug/kg	1.8 U	2.1	1.8 U	1.9 U	2.0 U	2.1 U	1.9 U	4.5	1.8 U	4.1	1.5 J	2.0 U	1.9 U	2.0 U	2.0 U	0.92 J
Aroclor 1254	ug/kg	1.8 U	2.5	1.8 U	1.9 U	2.0 U	2.1 U	1.9 U	15	1.8 U	8.9 J	4.2 J	2.0 U	1.9 U	2.0 U	2.0 U	1.9
Aroclor 1268	ug/kg	1.8 U	1.8 U	1.8 U	1.9 U	2.0 U	2.1 U	1.9 U	1.8 U	1.8 U	1.9 U	1.8 UJ	2.0 U	1.9 U	2.0 U	2.0 U	1.9 U
Aroclor 1221	ug/kg	1.8 U	1.8 UJ	1.8 U	1.9 U	2.0 U	2.1 U	1.9 U	1.8 UJ	1.8 U	1.9 U	1.8 UJ	2.0 U	1.9 U	2.0 U	2.0 U	1.9 U
Aroclor 5460	ug/kg	3.5 U	4.8	3.6 U	3.7 U	3.8 U	4.0 U	3.7 U	25	3.6 U	26	5.3 J	3.9 U	3.7 U	3.9 U	3.8 U	1.6 J
Aroclor 1232	ug/kg	1.8 U	1.8 UJ	1.8 U	1.9 U	2.0 U	2.1 U	1.9 U	1.8 UJ	1.8 U	1.9 U	1.8 UJ	2.0 U	1.9 U	2.0 U	2.0 U	1.9 U
Aroclor 5442	ug/kg	3.5 U	3.5 U	3.6 U	3.7 U	3.8 U	4.0 U	3.7 U	3.6 U	3.6 U	3.7 U	3.5 UJ	3.9 U	3.7 U	3.9 U	3.8 U	3.8 U
Aroclor 1248	ug/kg	1.8 U	1.8 U	1.8 U	1.9 U	2.0 U	2.1 U	1.9 U	1.8 U	1.8 U	1.9 U	1.8 UJ	2.0 U	1.9 U	2.0 U	2.0 U	1.9 U
Aroclor 1016	ug/kg	1.8 U	1.8 UJ	1.8 U	1.9 U	2.0 U	2.1 U	1.9 U	1.8 UJ	1.8 U	1.9 U	1.8 UJ	2.0 U	1.9 U	2.0 U	2.0 U	1.9 U
Aroclor 1262	ug/kg	1.8 U	1.8 U	1.8 U	1.9 U	2.0 U	2.1 U	1.9 U	1.8 U	1.8 U	1.9 U	1.8 UJ	2.0 U	1.9 U	2.0 U	2.0 U	1.9 U
Aroclor 1242	ug/kg	1.8 U	1.8 U	1.8 U	1.9 U	2.0 U	2.1 U	1.9 U	1.8 U	1.8 U	1.9 U	1.8 UJ	2.0 U	1.9 U	2.0 U	2.0 U	1.9 U
Aroclor 5432	ug/kg	3.5 U	3.5 U	3.6 U	3.7 U	3.8 U	4.0 U	3.7 U	3.6 U	3.6 U	3.7 U	3.5 UJ	3.9 U	3.7 U	3.9 U	3.8 U	3.8 U

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

Appendix A4
Dioxins and PCBs - Validated Data
HSA-5C

Sample Name		SL-076-SA5C-SB-3.0-4.0	SL-077-SA5C-SS-0.0-0.5	SL-077-SA5C-SB-3.0-4.0	SL-078-SA5C-SS-0.0-0.5	SL-078-SA5C-SB-4.0-5.0	SL-079-SA5C-SS-0.0-0.5	SL-079-SA5C-SB-4.0-5.0	SL-079-SA5C-SB-8.5-9.5	SL-080-SA5C-SS-0.0-0.5	SL-080-SA5C-SB-4.0-5.0	SL-080-SA5C-SB-7.5-8.5	SL-081-SA5C-SB-3.0-4.0	SL-083-SA5C-SB-2.5-3.5	SL-085-SA5C-SB-2.5-3.0	SL-086-SA5C-SS-0.0-0.5	SL-086-SA5C-SB-4.0-5.0
Sample Date		11/23/2010	10/22/2010	11/23/2010	10/22/2010	11/22/2010	10/21/2010	11/17/2010	11/17/2010	10/21/2010	11/17/2010	11/17/2010	11/17/2010	11/16/2010	11/16/2010	10/22/2010	11/11/2010
SDG		DE022	DE003	DE022	DE003	DE021	DX002	DE018	DE018	DX002	DE018	DE018	DE018	DE017	DE017	DE003	DE014
Start Depth		3	0	3	0	4	0	4	8.5	0	4	7.5	3	2.5	2.5	0	4
End Depth		4	0.5	4	0.5	5	0.5	5	9.5	0.5	5	8.5	4	3.5	3	0.5	5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
2,3,7,8-TCDD	ng/kg	0.0166 J	1.09 U	1.05 U	1.10 U	1.11 U	0.0188 J	1.07 U	0.0286 J	0.0382 J	1.10 UJ	1.09 U	1.06 U	1.08 U	1.19 U	1.15 U	1.10 U
1,2,3,7,8,9-HxCDD	ng/kg	5.29 U	1.46 J	5.26 U	1.43 J	5.53 U	0.789 J	5.35 U	5.56 U	1.36 J	5.52 U	5.43 U	5.31 U	5.40 U	5.95 U	5.77 U	5.48 U
OCDD	ng/kg	10.6 U	11500 J	10.5 U	440	11.1 U	169	7.45 J	5.08 J	260	11.0 U	10.9 U	10.6 U	10.8 U	11.9 U	24.8	11.0 U
1,2,3,4,6,7,8-HpCDD	ng/kg	5.29 U	411	5.26 U	38.0	5.53 U	14.4	5.35 U	5.56 U	17.4	5.52 U	5.43 U	5.31 U	5.40 U	5.95 U	2.81 J	5.48 U
OCDF	ng/kg	10.6 U	33.6	10.5 U	8.80 J	11.1 U	4.24 J	10.7 U	11.1 U	8.09 J	11.0 U	10.9 U	10.6 U	10.8 U	11.9 U	6.54 J	11.0 U
1,2,3,4,7,8-HxCDD	ng/kg	5.29 U	0.523 J	5.26 U	0.447 J	5.53 U	0.146 J	5.35 U	5.56 U	0.260 J	5.52 UJ	5.43 U	5.31 U	5.40 U	5.95 U	5.77 U	5.48 U
1,2,3,7,8-PeCDD	ng/kg	0.0356 J	5.46 U	0.0403 J	5.49 U	0.0371 J	0.162 J	0.0380 J	0.0574 J	0.290 J	5.52 UJ	5.43 U	0.265 J	0.0724 J	0.0320 J	5.77 U	5.48 U
2,3,7,8-TCDF	ng/kg	1.06 U	1.09 U	1.05 U	0.510 J	1.11 U	0.172 J	1.07 U	0.0372 J	0.135 J	1.10 UJ	1.09 U	0.0824 J	1.08 U	1.19 U	0.101 J	1.10 U
1,2,3,4,7,8,9-HpCDF	ng/kg	5.29 U	0.560 J	5.26 U	0.586 J	5.53 U	0.270 J	5.35 U	5.56 U	0.209 J	5.52 U	5.43 U	5.31 U	5.40 U	5.95 U	0.788 J	5.48 U
2,3,4,7,8-PeCDF	ng/kg	5.29 U	0.410 J	5.26 U	0.641 J	5.53 U	0.422 J	5.35 U	5.56 U	0.354 J	5.52 U	5.43 U	5.31 U	5.40 U	5.95 U	5.77 U	5.48 U
1,2,3,7,8-PeCDF	ng/kg	5.29 U	0.319 J	5.26 U	0.832 J	5.53 U	0.400 J	5.35 U	5.56 U	0.313 J	5.52 UJ	5.43 U	5.31 U	5.40 U	5.95 U	9.01	5.48 U
1,2,3,6,7,8-HxCDF	ng/kg	5.29 U	5.46 U	5.26 U	0.537 J	5.53 U	0.283 J	5.35 U	5.56 U	0.275 J	5.52 U	5.43 U	5.31 U	5.40 U	5.95 U	1.39 J	5.48 U
1,2,3,6,7,8-HxCDD	ng/kg	5.29 U	3.97 J	5.26 U	1.76 J	5.53 U	0.818 J	5.35 U	5.56 U	1.25 J	5.52 U	5.43 U	5.31 U	5.40 U	5.95 U	0.190 J	5.48 U
2,3,4,6,7,8-HxCDF	ng/kg	5.29 U	5.46 U	5.26 U	0.526 J	5.53 U	5.39 U	5.35 U	5.56 U	5.42 U	5.52 U	5.43 U	5.31 U	5.40 U	5.95 U	5.77 U	5.48 U
1,2,3,4,6,7,8-HpCDF	ng/kg	5.29 U	6.29	5.26 U	5.10 J	5.53 U	2.75 J	5.35 U	5.56 U	3.23 J	5.52 U	5.43 U	5.31 U	5.40 U	5.95 U	1.92 J	5.48 U
1,2,3,4,7,8-HxCDF	ng/kg	5.29 U	5.46 U	5.26 U	0.816 J	5.53 U	5.39 U	5.35 U	5.56 U	5.42 U	5.52 U	5.43 U	5.31 U	5.40 U	5.95 U	3.32 J	5.48 U
1,2,3,7,8,9-HxCDF	ng/kg	5.29 U	5.46 U	5.26 U	0.947 J	5.53 U	0.472 J	5.35 U	5.56 U	0.915 J	5.52 U	5.43 U	5.31 U	5.40 U	5.95 U	5.77 U	5.48 U
Aroclor 1260	ug/kg	1.8 U	1.3 J	1.8 U	5.6	1.9 U	1.5 J	1.8 U	1.9 U	0.96 J	1.9 U	1.8 U	1.8 U	1.8 U	2.0 U	430	1.9 U
Aroclor 1254	ug/kg	1.8 U	2.9 J	1.8 U	3.3	1.9 U	0.91 J	1.8 U	1.9 U	1.1 J	1.9 U	1.8 U	1.8 U	1.8 U	2.0 U	49 U	1.9 U
Aroclor 1268	ug/kg	1.8 U	3.7 U	1.8 U	1.9 U	1.9 U	1.8 U	1.8 U	1.9 U	1.8 U	1.9 U	1.8 U	1.8 U	1.8 U	2.0 U	49 U	1.9 U
Aroclor 1221	ug/kg	1.8 U	3.7 U	1.8 U	1.9 U	1.9 U	1.8 UJ	1.8 U	1.9 U	1.8 UJ	1.9 U	1.8 U	1.8 U	1.8 U	2.0 U	49 U	1.9 U
Aroclor 5460	ug/kg	3.5 U	7.2 U	3.5 U	4.1	3.7 U	3.2 J	3.5 U	3.7 U	1.5 J	3.6 U	3.6 U	3.5 U	3.6 U	3.9 U	95 U	3.6 U
Aroclor 1232	ug/kg	1.8 U	3.7 U	1.8 U	1.9 U	1.9 U	1.8 UJ	1.8 U	1.9 U	1.8 UJ	1.9 U	1.8 U	1.8 U	1.8 U	2.0 U	49 U	1.9 U
Aroclor 5442	ug/kg	3.5 U	7.2 U	3.5 U	3.6 U	3.7 U	3.6 U	3.5 U	3.7 U	3.6 U	3.6 U	3.6 U	3.5 U	3.6 U	3.9 U	95 U	3.6 U
Aroclor 1248	ug/kg	1.8 U	3.7 U	1.8 U	1.9 U	1.9 U	1.8 U	1.8 U	1.9 U	1.8 U	1.9 U	1.8 U	1.8 U	1.8 U	2.0 U	49 U	1.9 U
Aroclor 1016	ug/kg	1.8 U	3.7 U	1.8 U	1.9 U	1.9 U	1.8 UJ	1.8 U	1.9 U	1.8 UJ	1.9 U	1.8 U	1.8 U	1.8 U	2.0 U	49 U	1.9 U
Aroclor 1262	ug/kg	1.8 U	3.7 U	1.8 U	1.9 U	1.9 U	1.8 U	1.8 U	1.9 U	1.8 U	1.9 U	1.8 U	1.8 U	1.8 U	2.0 U	49 U	1.9 U
Aroclor 1242	ug/kg	1.8 U	3.7 U	1.8 U	1.9 U	1.9 U	1.8 U	1.8 U	1.9 U	1.8 U	1.9 U	1.8 U	1.8 U	1.8 U	2.0 U	49 U	1.9 U
Aroclor 5432	ug/kg	3.5 U	7.2 U	3.5 U	3.6 U	3.7 U	3.6 U	3.5 U	3.7 U	3.6 U	3.6 U	3.6 U	3.5 U	3.6 U	3.9 U	95 U	3.6 U

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

Appendix A4
Dioxins and PCBs - Validated Data
HSA-5C

Sample Name		SL-088-SA5C-SS-0.0-0.5	SL-088-SA5C-SB-4.0-5.0	SL-088-SA5C-SB-8.5-9.5	SL-090-SA5C-SS-0.0-0.5	SL-090-SA5C-SB-4.0-5.0	SL-093-SA5C-SB-4.0-5.0	SL-093-SA5C-SB-8.0-9.0	SL-094-SA5C-SB-4.0-5.0	SL-094-SA5C-SB-8.5-9.5	SL-095-SA5C-SS-0.0-0.5	SL-096-SA5C-SS-0.0-0.5	SL-096-SA5C-SB-4.0-5.0	SL-096-SA5C-SB-9.0-10.0	SL-097-SA5C-SS-0.0-0.5	SL-097-SA5C-SB-4.0-5.0	SL-097-SA5C-SB-9.0-10.0
Sample Date		11/15/2010	11/12/2010	11/12/2010	10/22/2010	11/15/2010	11/15/2010	11/15/2010	11/15/2010	11/15/2010	10/22/2010	10/22/2010	11/12/2010	11/12/2010	01/04/2011	11/12/2010	11/12/2010
SDG		DE016	DE015	DE015	DE003	DE016	DE016	DE016	DE016	DE016	DE003	DE003	DE015	DE015	DE052	DE015	DE015
Start Depth		0	4	8.5	0	4	4	8	4	8.5	0	0	4	9	0	4	9
End Depth		0.5	5	9.5	0.5	5	5	9	5	9.5	0.5	0.5	5	10	0.5	5	10
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
2,3,7,8-TCDD	ng/kg	1.16 U	1.18 U	1.17 U	0.391 J	1.14 U	1.14 U	1.11 U	1.15 U	1.15 U	0.0108 J	0.0359 J	1.12 U	1.08 U	1.19 U	1.09 U	1.13 U
1,2,3,7,8,9-HxCDD	ng/kg	0.430 J	5.92 U	5.83 U	5.66	5.69 U	5.71 U	5.56 U	5.77 U	5.74 U	0.519 J	1.93 J	5.59 U	5.39 U	0.276 J	5.45 U	5.63 U
OCDD	ng/kg	157	23.3	11.7 U	1960	7.00 J	11.4 U	11.1 U	13.6	11.5 U	258	899	11.2 U	10.8 U	93.8	10.9 U	11.3 U
1,2,3,4,6,7,8-HpCDD	ng/kg	15.2	5.92 U	5.83 U	186	5.69 U	5.71 U	5.56 U	5.77 U	5.74 U	32.2	97.8	5.59 U	5.39 U	9.09	5.45 U	5.63 U
OCDF	ng/kg	11.6 U	11.8 U	11.7 U	54.7	11.4 U	11.4 U	11.1 U	11.5 U	11.5 U	7.88 J	17.5	11.2 U	10.8 U	2.26 J	10.9 U	11.3 U
1,2,3,4,7,8-HxCDD	ng/kg	5.82 U	5.92 U	5.83 U	2.90 J	5.69 U	5.71 U	5.56 U	5.77 U	5.74 U	5.83 U	2.72 J	5.59 U	5.39 U	0.0884 J	5.45 U	5.63 U
1,2,3,7,8-PeCDD	ng/kg	0.0915 J	5.92 U	0.0264 J	2.66 J	0.0144 J	0.0368 J	0.0369 J	0.0377 J	5.74 U	5.83 U	0.453 J	0.0434 J	0.0448 J	5.94 U	0.0204 J	0.0113 J
2,3,7,8-TCDF	ng/kg	1.16 U	1.18 U	1.17 U	0.772 J	1.14 U	1.14 U	1.11 U	1.15 U	1.15 U	1.17 U	0.142 J	1.12 U	1.08 U	1.19 U	1.09 U	1.13 U
1,2,3,4,7,8,9-HpCDF	ng/kg	5.82 U	5.92 U	5.83 U	1.71 J	5.69 U	5.71 U	5.56 U	5.77 U	5.74 U	5.83 U	0.717 J	5.59 U	5.39 U	5.94 U	5.45 U	5.63 U
2,3,4,7,8-PeCDF	ng/kg	5.82 U	5.92 U	5.83 U	1.50 J	5.69 U	5.71 U	5.56 U	5.77 U	5.74 U	5.83 U	0.498 J	5.59 U	5.39 U	5.94 U	5.45 U	5.63 U
1,2,3,7,8-PeCDF	ng/kg	0.831 J	5.92 U	5.83 U	0.940 J	5.69 U	5.71 U	5.56 U	5.77 U	5.74 U	0.226 J	0.412 J	5.59 U	5.39 U	0.246 J	5.45 U	5.63 U
1,2,3,6,7,8-HxCDF	ng/kg	5.82 U	5.92 U	5.83 U	1.72 J	5.69 U	5.71 U	5.56 U	5.77 U	5.74 U	5.83 U	0.416 J	5.59 U	5.39 U	0.165 J	5.45 U	5.63 U
1,2,3,6,7,8-HxCDD	ng/kg	0.559 J	5.92 U	5.83 U	7.95	5.69 U	5.71 U	5.56 U	5.77 U	5.74 U	0.633 J	2.39 J	5.59 U	5.39 U	0.392 J	5.45 U	5.63 U
2,3,4,6,7,8-HxCDF	ng/kg	5.82 U	5.92 U	5.83 U	1.90 J	5.69 U	5.71 U	5.56 U	5.77 U	5.74 U	5.83 U	0.487 J	5.59 U	5.39 U	5.94 U	5.45 U	5.63 U
1,2,3,4,6,7,8-HpCDF	ng/kg	5.82 U	5.92 U	5.83 U	25.2	5.69 U	5.71 U	5.56 U	5.77 U	5.74 U	2.33 J	9.93	5.59 U	5.39 U	1.08 J	5.45 U	5.63 U
1,2,3,4,7,8-HxCDF	ng/kg	5.82 U	5.92 U	5.83 U	2.15 J	5.69 U	5.71 U	5.56 U	5.77 U	5.74 U	5.83 U	0.693 J	5.59 U	5.39 U	0.222 J	5.45 U	5.63 U
1,2,3,7,8,9-HxCDF	ng/kg	5.82 U	5.92 U	5.83 U	0.624 J	5.69 U	5.71 U	5.56 U	5.77 U	5.74 U	0.442 J	1.19 J	5.59 U	5.39 U	5.94 U	5.45 U	5.63 U
Aroclor 1260	ug/kg	3.9	0.84 J	2.0 U	6.8	1.9 U	1.9 U	0.69 J	2.0 U	2.0 U	0.54 J	7.7 J	1.9 U	1.8 U	2.0 U	1.9 U	1.9 U
Aroclor 1254	ug/kg	2.0 U	2.0 U	2.0 U	7.2	1.9 U	1.9 U	1.1 J	0.61 J	2.0 U	2.0 U	9.4 U	1.9 U	1.8 U	2.0 U	1.9 U	1.9 U
Aroclor 1268	ug/kg	2.0 U	2.0 U	2.0 U	3.8 U	1.9 U	1.9 U	1.9 U	2.0 U	2.0 U	2.0 U	9.4 U	1.9 U	1.8 U	2.0 U	1.9 U	1.9 U
Aroclor 1221	ug/kg	2.0 U	2.0 U	2.0 U	3.8 U	1.9 U	1.9 U	1.9 U	2.0 U	2.0 U	2.0 U	9.4 U	1.9 U	1.8 U	2.0 U	1.9 U	1.9 U
Aroclor 5460	ug/kg	1.9 J	3.9 U	3.9 U	9.6	3.8 U	3.8 U	3.7 U	3.8 U	3.8 U	3.8 U	190	3.9	13	3.9 U	3.6 U	3.7 U
Aroclor 1232	ug/kg	2.0 U	2.0 U	2.0 U	3.8 U	1.9 U	1.9 U	1.9 U	2.0 U	2.0 U	2.0 U	9.4 U	1.9 U	1.8 U	2.0 U	1.9 U	1.9 U
Aroclor 5442	ug/kg	3.8 U	3.9 U	3.9 U	7.5 U	3.8 U	3.8 U	3.7 U	3.8 U	3.8 U	3.8 U	18 U	3.7 U	3.6 U	3.9 U	3.6 U	3.7 U
Aroclor 1248	ug/kg	2.0 U	2.0 U	2.0 U	3.8 U	1.9 U	1.9 U	1.9 U	2.0 U	2.0 U	2.0 U	9.4 U	1.9 U	1.8 U	2.0 U	1.9 U	1.9 U
Aroclor 1016	ug/kg	2.0 U	2.0 U	2.0 U	3.8 U	1.9 U	1.9 U	1.9 U	2.0 U	2.0 U	2.0 U	9.4 U	1.9 U	1.8 U	2.0 U	1.9 U	1.9 U
Aroclor 1262	ug/kg	2.0 U	2.0 U	2.0 U	3.8 U	1.9 U	1.9 U	1.9 U	2.0 U	2.0 U	2.0 U	9.4 U	1.9 U	1.8 U	2.0 U	1.9 U	1.9 U
Aroclor 1242	ug/kg	2.0 U	2.0 U	2.0 U	3.8 U	1.9 U	1.9 U	1.9 U	2.0 U	2.0 U	2.0 U	9.4 U	1.9 U	1.8 U	2.0 U	1.9 U	1.9 U
Aroclor 5432	ug/kg	3.8 U	3.9 U	3.9 U	7.5 U	3.8 U	3.8 U	3.7 U	3.8 U	3.8 U	3.8 U	18 U	3.7 U	3.6 U	3.9 U	3.6 U	3.7 U

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

Appendix A4
Dioxins and PCBs - Validated Data
HSA-5C

Sample Name		SL-098-SA5C-SS-0.0-0.5	SL-098-SA5C-SB-4.0-5.0	SL-098-SA5C-SB-9.0-10.0	SL-099-SA5C-SS-0.0-0.5	SL-099-SA5C-SB-4.0-5.0	SL-099-SA5C-SB-9.0-10.0	SL-100-SA5C-SS-0.0-0.5	SL-100-SA5C-SB-4.0-5.0	SL-100-SA5C-SB-8.5-9.5	SL-101-SA5C-SS-0.0-0.5	SL-101-SA5C-SB-4.0-5.0	SL-102-SA5C-SB-4.0-5.0	SL-103-SA5C-SS-0.0-0.5	SL-103-SA5C-SB-4.0-5.0	SL-103-SA5C-SB-9.0-10.0	SL-104-SA5C-SS-0.0-0.5
Sample Date		10/21/2010	11/09/2010	11/09/2010	10/21/2010	11/09/2010	11/09/2010	10/21/2010	11/11/2010	11/11/2010	10/21/2010	11/11/2010	11/09/2010	10/21/2010	11/10/2010	11/10/2010	10/21/2010
SDG		DE001	DE012	DE012	DE001	DE012	DE012	DE001	DE014	DE014	DE001	DE014	DE012	DE001	DE013	DE013	DE001
Start Depth		0	4	9	0	4	9	0	4	8.5	0	4	4	0	4	9	0
End Depth		0.5	5	10	0.5	5	10	0.5	5	9.5	0.5	5	5	0.5	5	10	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
2,3,7,8-TCDD	ng/kg	1.10 UJ	1.11 U	1.14 U	0.0280 J	1.13 U	1.10 U	1.10 U	1.08 U	1.12 U	1.10 U	1.07 U	1.15 U	1.09 U	1.11 U	1.12 U	1.10 U
1,2,3,7,8,9-HxCDD	ng/kg	0.254 J	5.57 U	5.69 U	0.866 J	5.66 U	5.48 U	0.905 J	5.39 U	5.59 U	1.19 J	5.36 U	5.74 U	0.915 J	5.57 U	5.61 U	1.11 J
OCDD	ng/kg	85.0 J	11.1 U	11.4 U	290	11.3 U	13.9	398	10.8 U	14.1	222	10.7 U	11.5 U	372	3.43 J	11.2 U	285
1,2,3,4,6,7,8-HpCDD	ng/kg	8.30 J	5.57 U	5.69 U	26.2	5.66 U	1.33 J	32.1	5.39 U	5.59 U	22.2	5.36 U	5.74 U	31.6	5.57 UJ	5.61 U	29.0
OCDF	ng/kg	2.35 J	11.1 U	11.4 U	6.68 J	11.3 U	11.0 U	16.5	10.8 U	11.2 U	9.06 J	10.7 U	11.5 U	12.5	11.1 U	11.2 U	4.31 J
1,2,3,4,7,8-HxCDD	ng/kg	5.51 UJ	5.57 U	5.69 U	0.160 J	5.66 U	0.0256 J	0.176 J	5.39 U	5.59 U	0.315 J	5.36 U	5.74 U	0.267 J	0.0171 J	0.0313 J	0.224 J
1,2,3,7,8-PeCDD	ng/kg	5.51 UJ	5.57 U	5.69 U	0.145 J	5.66 U	5.48 U	0.180 J	0.0132 J	0.0384 J	0.219 J	0.0242 J	5.74 U	0.171 J	5.57 U	5.61 U	0.251 J
2,3,7,8-TCDF	ng/kg	1.10 UJ	1.11 U	1.14 U	1.10 U	1.13 U	1.10 U	1.10 U	1.08 U	1.12 U	1.10 U	1.07 U	1.15 U	1.09 U	1.11 UJ	1.12 U	0.164 J
1,2,3,4,7,8,9-HpCDF	ng/kg	5.51 UJ	5.57 U	5.69 U	5.48 U	5.66 U	5.48 U	5.51 U	5.39 U	5.59 U	0.185 J	5.36 U	5.74 U	0.307 J	5.57 U	5.61 U	5.52 U
2,3,4,7,8-PeCDF	ng/kg	5.51 UJ	5.57 U	5.69 U	0.325 J	5.66 U	5.48 U	0.303 J	5.39 U	5.59 U	0.141 J	5.36 U	5.74 U	0.229 J	5.57 UJ	5.61 U	0.634 J
1,2,3,7,8-PeCDF	ng/kg	0.391 J	5.57 U	5.69 U	0.363 J	5.66 U	5.48 U	5.51 U	5.39 U	5.59 U	5.49 U	5.36 U	5.74 U	5.46 U	5.57 U	5.61 U	0.497 J
1,2,3,6,7,8-HxCDF	ng/kg	5.51 UJ	5.57 U	5.69 U	0.259 J	5.66 U	5.48 U	0.222 J	5.39 U	5.59 U	0.167 J	5.36 U	5.74 U	0.167 J	5.57 UJ	5.61 U	0.374 J
1,2,3,6,7,8-HxCDD	ng/kg	0.323 J	5.57 U	5.69 U	1.38 J	5.66 U	5.48 U	1.26 J	5.39 U	5.59 U	1.09 J	5.36 U	5.74 U	1.30 J	5.57 UJ	5.61 U	1.93 J
2,3,4,6,7,8-HxCDF	ng/kg	5.51 UJ	5.57 U	5.69 U	0.283 J	5.66 U	5.48 U	5.51 U	5.39 U	5.59 U	5.49 U	5.36 U	5.74 U	5.46 U	5.57 UJ	5.61 U	0.416 J
1,2,3,4,6,7,8-HpCDF	ng/kg	5.51 UJ	5.57 U	5.69 U	3.64 J	5.66 U	5.48 U	5.01 J	5.39 U	5.59 U	3.36 J	5.36 U	5.74 U	5.19 J	5.57 U	5.61 U	3.87 J
1,2,3,4,7,8-HxCDF	ng/kg	5.51 UJ	5.57 U	5.69 U	0.314 J	5.66 U	5.48 U	0.252 J	5.39 U	5.59 U	0.0959 J	5.36 U	5.74 U	0.338 J	5.57 U	5.61 U	0.488 J
1,2,3,7,8,9-HxCDF	ng/kg	5.51 UJ	5.57 U	5.69 U	0.518 J	5.66 U	5.48 U	0.559 J	5.39 U	5.59 U	0.418 J	5.36 U	5.74 U	0.583 J	5.57 UJ	5.61 U	0.909 J
Aroclor 1260	ug/kg	3.2	1.9 U	1.9 U	1.3 J	1.9 U	1.9 U	3.4	1.8 U	1.9 U	1.1 J	1.8 U	2.0 U	2.9	1.9 U	1.9 U	1.6 J
Aroclor 1254	ug/kg	3.2	1.9 U	1.9 U	4.6	1.9 U	1.9 U	14	1.8 U	1.9 U	3.3	1.8 U	2.0 U	9.3	1.9 U	1.9 U	4.3
Aroclor 1268	ug/kg	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U	2.0 U	1.9 U	1.9 U	1.9 U	1.9 U
Aroclor 1221	ug/kg	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U	2.0 U	1.9 U	1.9 U	1.9 U	1.9 U
Aroclor 5460	ug/kg	3.6 U	3.7 U	3.8 U	3.6	3.7 U	3.6 U	9.0	3.6 U	3.7 U	10	3.5 U	3.8 U	1.6 J	3.7 U	3.7 U	1.8 J
Aroclor 1232	ug/kg	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U	2.0 U	1.9 U	1.9 U	1.9 U	1.9 U
Aroclor 5442	ug/kg	3.6 U	3.7 U	3.8 U	3.6 U	3.7 U	3.6 U	3.6 U	3.6 U	3.7 U	3.6 U	3.5 U	3.8 U	3.6 U	3.7 U	3.7 U	3.6 U
Aroclor 1248	ug/kg	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U	2.0 U	1.9 U	1.9 U	1.9 U	1.9 U
Aroclor 1016	ug/kg	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U	2.0 U	1.9 U	1.9 U	1.9 U	1.9 U
Aroclor 1262	ug/kg	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U	2.0 U	1.9 U	1.9 U	1.9 U	1.9 U
Aroclor 1242	ug/kg	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U	2.0 U	1.9 U	1.9 U	1.9 U	1.9 U
Aroclor 5432	ug/kg	3.6 U	3.7 U	3.8 U	3.6 U	3.7 U	3.6 U	3.6 U	3.6 U	3.7 U	3.6 U	3.5 U	3.8 U	3.6 U	3.7 U	3.7 U	3.6 U

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

Appendix A4
Dioxins and PCBs - Validated Data
HSA-5C

Sample Name		SL-104-SA5C-SB-4.0-5.0	SL-104-SA5C-SB-9.0-10.0	SL-106-SA5C-SB-4.0-5.0	SL-106-SA5C-SB-9.0-10.0	SL-107-SA5C-SS-0.0-0.5	SL-107-SA5C-SB-4.0-5.0	SL-107-SA5C-SB-9.0-10.0	SL-108-SA5C-SS-0.0-0.5	SL-108-SA5C-SB-4.0-5.0	SL-108-SA5C-SB-9.0-10.0	SL-109-SA5C-SB-4.0-5.0	SL-109-SA5C-SB-9.0-10.0	SL-110-SA5C-SB-4.0-5.0	SL-110-SA5C-SB-9.0-10.0	SL-111-SA5C-SB-4.0-5.0	SL-111-SA5C-SB-9.0-10.0
Sample Date		11/11/2010	11/11/2010	11/08/2010	11/08/2010	10/21/2010	11/08/2010	11/08/2010	10/21/2010	11/08/2010	11/08/2010	11/08/2010	11/08/2010	11/10/2010	11/10/2010	11/10/2010	11/10/2010
SDG		DE014	DE014	DE011	DE011	DE001	DE011	DE011	DX002	DE011	DE011	DE011	DE011	DE013	DE013	DE013	DE013
Start Depth		4	9	4	9	0	4	9	0	4	9	4	9	4	9	4	9
End Depth		5	10	5	10	0.5	5	10	0.5	5	10	5	10	5	10	5	10
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
2,3,7,8-TCDD	ng/kg	1.12 U	1.14 U	1.13 U	1.15 U	1.09 U	1.14 U	1.16 U	0.0472 J	0.0304 J	0.0263 J	1.15 U	1.16 U	1.12 U	1.15 U	1.14 U	1.07 U
1,2,3,7,8,9-HxCDD	ng/kg	5.62 U	5.68 U	5.64 U	5.75 U	0.273 J	5.68 U	5.81 U	0.644 J	5.77 U	0.160 J	5.75 U	5.78 U	5.62 U	5.73 U	5.69 U	5.34 U
OCDD	ng/kg	11.2 U	11.4 U	11.3 U	36.7	352	11.4 U	8.46 J	385	7.27 J	36.9	11.5 U	9.51 J	11.2 U	11.5 U	11.4 U	34.1
1,2,3,4,6,7,8-HpCDD	ng/kg	5.62 U	5.68 U	5.64 U	3.42 J	25.6	5.68 U	5.81 U	27.7	5.77 U	3.89 J	5.75 U	5.78 U	5.62 U	5.73 U	5.69 U	2.99 J
OCDF	ng/kg	11.2 U	11.4 U	11.3 U	11.5 U	13.1	11.4 U	11.6 U	12.8	11.5 U	11.2 U	11.5 U	11.6 U	11.2 U	11.5 U	11.4 U	10.7 U
1,2,3,4,7,8-HxCDD	ng/kg	5.62 U	5.68 U	5.64 U	0.0730 J	5.43 U	0.0458 J	0.0447 J	0.117 J	0.0851 J	0.104 J	5.75 U	5.78 U	5.62 U	0.0442 J	0.0300 J	0.0378 J
1,2,3,7,8-PeCDD	ng/kg	0.0736 J	0.0407 J	5.64 U	5.75 U	0.0895 J	5.68 U	5.81 U	0.175 J	5.77 U	5.58 U	5.75 U	5.78 U	5.62 U	5.73 U	5.69 U	5.34 U
2,3,7,8-TCDF	ng/kg	1.12 U	1.14 U	1.13 U	1.15 U	0.339 J	1.14 U	1.16 U	0.107 J	1.15 U	1.12 U	1.15 U	1.16 U	1.12 U	1.15 U	1.14 U	1.07 U
1,2,3,4,7,8,9-HpCDF	ng/kg	5.62 U	5.68 U	5.64 U	5.75 U	5.43 U	5.68 U	5.81 U	0.328 J	5.77 U	5.58 U	5.75 U	5.78 U	5.62 U	5.73 U	5.69 U	5.34 U
2,3,4,7,8-PeCDF	ng/kg	5.62 U	5.68 U	5.64 U	5.75 U	0.162 J	5.68 U	5.81 U	0.317 J	5.77 U	5.58 U	5.75 U	5.78 U	5.62 U	5.73 U	5.69 U	5.34 U
1,2,3,7,8-PeCDF	ng/kg	5.62 U	5.68 U	5.64 U	5.75 U	5.43 U	5.68 U	5.81 U	0.337 J	5.77 U	5.58 U	5.75 U	5.78 U	5.62 U	5.73 U	5.69 U	5.34 U
1,2,3,6,7,8-HxCDF	ng/kg	5.62 U	5.68 U	5.64 U	5.75 U	5.43 U	5.68 U	5.81 U	0.224 J	5.77 U	5.58 U	5.75 U	5.78 U	5.62 U	5.73 U	5.69 U	5.34 U
1,2,3,6,7,8-HxCDD	ng/kg	5.62 U	5.68 U	5.64 U	5.75 U	0.644 J	5.68 U	5.81 U	0.880 J	5.77 U	5.58 U	5.75 U	5.78 U	5.62 U	5.73 U	5.69 U	5.34 U
2,3,4,6,7,8-HxCDF	ng/kg	5.62 U	5.68 U	5.64 U	5.75 U	5.43 U	5.68 U	5.81 U	5.37 U	5.77 U	5.58 U	5.75 U	5.78 U	5.62 U	5.73 U	5.69 U	5.34 U
1,2,3,4,6,7,8-HpCDF	ng/kg	5.62 U	5.68 U	5.64 U	5.75 U	3.34 J	5.68 U	5.81 U	4.54 J	5.77 U	5.58 U	5.75 U	5.78 U	5.62 U	5.73 U	5.69 U	5.34 U
1,2,3,4,7,8-HxCDF	ng/kg	5.62 U	5.68 U	5.64 U	5.75 U	0.191 J	5.68 U	5.81 U	0.326 J	5.77 U	5.58 U	5.75 U	5.78 U	5.62 U	5.73 U	5.69 U	5.34 U
1,2,3,7,8,9-HxCDF	ng/kg	5.62 U	5.68 U	5.64 U	5.75 U	5.43 U	5.68 U	5.81 U	0.366 J	5.77 U	5.58 U	5.75 U	5.78 U	5.62 U	5.73 U	5.69 U	5.34 U
Aroclor 1260	ug/kg	1.9 U	1.9 U	1.9 U	2.0 U	6.9	1.9 U	2.0 U	11	2.0 U	1.9 U	2.0 U	2.0 U	1.9 U	1.9 U	1.9 U	1.8 U
Aroclor 1254	ug/kg	1.9 U	1.9 U	1.9 U	2.0 U	27	1.9 U	0.39 J	76	1.4 J	1.6 J	2.0 U	2.0 U	1.9 U	1.9 U	1.9 U	0.75 J
Aroclor 1268	ug/kg	1.9 U	1.9 U	1.9 U	2.0 U	1.8 U	1.9 U	2.0 U	3.7 U	2.0 U	1.9 U	2.0 U	2.0 U	1.9 U	1.9 U	1.9 U	1.8 U
Aroclor 1221	ug/kg	1.9 U	1.9 U	1.9 U	2.0 U	1.8 U	1.9 U	2.0 U	3.7 UJ	2.0 U	1.9 U	2.0 U	2.0 U	1.9 U	1.9 U	1.9 U	1.8 U
Aroclor 5460	ug/kg	3.7 U	3.8 U	3.7 U	3.8 U	1.3 J	3.8 U	3.8 U	7.1 U	3.8 U	3.7 U	3.8 U	3.8 U	3.7 U	3.8 U	3.8 U	3.5 U
Aroclor 1232	ug/kg	1.9 U	1.9 U	1.9 U	2.0 U	1.8 U	1.9 U	2.0 U	3.7 UJ	2.0 U	1.9 U	2.0 U	2.0 U	1.9 U	1.9 U	1.9 U	1.8 U
Aroclor 5442	ug/kg	3.7 U	3.8 U	3.7 U	3.8 U	3.6 U	3.8 U	3.8 U	7.1 U	3.8 U	3.7 U	3.8 U	3.8 U	3.7 U	3.8 U	3.8 U	3.5 U
Aroclor 1248	ug/kg	1.9 U	1.9 U	1.9 U	2.0 U	1.8 U	1.9 U	2.0 U	3.7 U	2.0 U	1.9 U	13	4.0	1.9 U	1.9 U	1.9 U	1.8 U
Aroclor 1016	ug/kg	1.9 U	1.9 U	1.9 U	2.0 U	1.8 U	1.9 U	2.0 U	3.7 UJ	2.0 U	1.9 U	2.0 U	2.0 U	1.9 U	1.9 U	1.9 U	1.8 U
Aroclor 1262	ug/kg	1.9 U	1.9 U	1.9 U	2.0 U	1.8 U	1.9 U	2.0 U	3.7 U	2.0 U	1.9 U	2.0 U	2.0 U	1.9 U	1.9 U	1.9 U	1.8 U
Aroclor 1242	ug/kg	1.9 U	1.9 U	1.9 U	2.0 U	1.8 U	1.9 U	2.0 U	3.7 U	2.0 U	1.9 U	2.0 U	2.0 U	1.9 U	1.9 U	1.9 U	1.8 U
Aroclor 5432	ug/kg	3.7 U	3.8 U	3.7 U	3.8 U	3.6 U	3.8 U	3.8 U	7.1 U	3.8 U	3.7 U	3.8 U	3.8 U	3.7 U	3.8 U	3.8 U	3.5 U

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

Appendix A4
Dioxins and PCBs - Validated Data
HSA-5C

Sample Name		SL-112-SA5C-SS-0.0-0.5	SL-112-SA5C-SB-4.0-5.0	SL-114-SA5C-SS-0.0-0.5	SL-115-SA5C-SS-0.0-0.5	SL-116-SA5C-SS-0.0-0.5	SL-117-SA5C-SS-0.0-0.5	SL-118-SA5C-SB-4.0-5.0	SL-118-SA5C-SB-9.0-10.0	SL-119-SA5C-SB-4.0-5.0	SL-119-SA5C-SB-6.0-7.0	SL-120-SA5C-SS-0.0-0.5	SL-120-SA5C-SB-4.0-5.0	SL-120-SA5C-SB-9.0-10.0	SL-121-SA5C-SS-0.0-0.5	SL-122-SA5C-SS-0.0-0.5	SL-122-SA5C-SB-4.0-5.0
Sample Date		10/20/2010	11/05/2010	10/27/2010	10/19/2010	10/19/2010	10/19/2010	11/03/2010	11/03/2010	11/03/2010	11/03/2010	10/19/2010	11/03/2010	11/03/2010	10/19/2010	10/19/2010	11/05/2010
SDG		DE001	DE010	DE005	DOE01	DOE01	DOE01	DE008	DE008	DE008	DE008	DOE01	DE008	DE008	DOE01	DOE01	DE010
Start Depth		0	4	0	0	0	0	4	9	4	6	0	4	9	0	0	4
End Depth		0.5	5	0.5	0.5	0.5	0.5	5	10	5	7	0.5	5	10	0.5	0.5	5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
2,3,7,8-TCDD	ng/kg	1.12 U	1.10 U	0.465 J	1.34 U	0.255 J	0.955 J	0.0230	0.0174	0.0585	1.08 U	1.06 U	0.0153	0.0178	0.0965 J	1.10 U	0.0561
1,2,3,7,8,9-HxCDD	ng/kg	0.700 J	0.0991	10.6	2.85 J	7.82	47.8	0.0470	0.0295	3.35	0.424	4.60 J	1.27	0.0299	2.57 J	1.45 J	0.0590
OCDD	ng/kg	170	0.670	2590	1110	3820	24700 J	0.917	1.80	2600	359	3810	61.7	1.97	1280	396	1.32
1,2,3,4,6,7,8-HpCDD	ng/kg	6.53	0.290	273	71.8	362	2930 J	0.316	0.328	143	17.7	316	5.80	0.389	101	28.6	0.275
OCDF	ng/kg	2.29 J	0.370	117	23.1	93.5	585	0.517	0.372	31.4	4.73	96.7	2.25	0.388	32.1	10.6 J	0.213
1,2,3,4,7,8-HxCDD	ng/kg	5.59 U	5.49 U	6.64	1.35 J	3.83 J	20.9	0.0322	0.0149	1.84	0.256	1.92 J	0.0781	0.0223	1.32 J	0.425 J	0.0262
1,2,3,7,8-PeCDD	ng/kg	0.0820 J	5.49 U	4.25 J	0.767 J	2.17 J	10.9	0.0277	0.0221	0.591	0.114	1.01 J	0.202	0.0269	5.80 U	0.284 J	0.0802
2,3,7,8-TCDF	ng/kg	1.12 U	1.10 U	0.458 J	0.333 J	0.267 J	2.38	1.11 U	1.15 U	1.08 U	1.08 U	0.928 J	0.0559	1.18 U	0.604 J	0.604 J	0.0167
1,2,3,4,7,8,9-HpCDF	ng/kg	0.112 J	0.0894	3.35 J	0.933 J	2.67 J	18.5	0.118	0.0844	0.473	0.158	6.80	0.248	0.0923	1.01 J	5.52 U	0.0909
2,3,4,7,8-PeCDF	ng/kg	0.174 J	0.0825 J	1.05 J	1.26 J	1.57 J	13.5	0.114	0.0995	0.248	0.120	0.904 J	0.168	0.128	1.44 J	1.02 J	0.135
1,2,3,7,8-PeCDF	ng/kg	0.140 J	0.0670	0.699 J	6.68 U	6.26 U	8.65	0.0525	0.0296	0.109	0.0574	5.31 U	0.379	0.0636	5.41 J	2.10 J	0.130
1,2,3,6,7,8-HxCDF	ng/kg	0.180 J	0.0710	1.86 J	1.04 J	1.39 J	15.4	0.133	0.0887 J	0.270 J	0.148 J	1.46 J	5.40 UJ	5.90 UJ	1.10 J	0.599 J	0.0901
1,2,3,6,7,8-HxCDD	ng/kg	0.611 J	5.49 U	12.5	2.90 J	14.2	114	5.57 U	5.76 U	5.42 U	5.41 U	12.4	0.948 J	5.90 UJ	4.20 J	1.59 J	0.0379
2,3,4,6,7,8-HxCDF	ng/kg	0.255 J	5.49 U	2.39 J	2.40 J	2.05 J	20.2	5.57 U	5.76 U	5.42 U	5.41 U	2.39 J	0.217 J	5.90 UJ	1.02 J	5.52 U	0.111
1,2,3,4,6,7,8-HpCDF	ng/kg	1.22 J	5.49 U	43.7	17.2	38.0	337	5.57 U	5.76 U	7.06 U	5.41 U	38.1	5.40 UJ	5.90 UJ	14.2	4.84 J	0.397
1,2,3,4,7,8-HxCDF	ng/kg	0.122 J	5.49 U	2.25 J	1.46 J	1.79 J	23.7	5.57 U	5.76 U	5.42 U	0.190	1.81 J	0.172 J	5.90 UJ	2.40 J	0.480 J	0.106
1,2,3,7,8,9-HxCDF	ng/kg	0.684 J	5.49 U	0.685 J	0.849 J	0.530 J	9.49	5.57 U	5.76 U	5.42 U	5.41 U	0.489 J	1.75 J	5.90 UJ	0.707 J	0.909 J	0.0931
Aroclor 1260	ug/kg	0.53 J	1.9 U	7.1 J	6.2	7.7 R	12	1.9 U	2.0 U	1.8 U	1.8 U	16	1.8 U	1.2 J	50 J	7.5	1.9 U
Aroclor 1254	ug/kg	0.40 J	1.9 U	6.6 J	13	7.4	24	1.9 U	2.0 U	1.8 U	1.8 U	21	1.8 U	2.7	54	11	1.9 U
Aroclor 1268	ug/kg	1.9 U	1.9 U	2.0 UJ	2.3 U	2.1 U	11 U	1.9 U	2.0 U	1.8 U	1.8 U	9.0 U	1.8 U	2.0 U	9.9 UJ	1.9 U	1.9 U
Aroclor 1221	ug/kg	1.9 U	1.9 U	2.0 UJ	2.3 U	2.1 U	11 U	1.9 UJ	2.0 UJ	1.8 UJ	1.8 UJ	9.0 U	1.8 UJ	2.0 UJ	9.9 U	1.9 U	1.9 U
Aroclor 5460	ug/kg	3.7 U	3.6 U	3.6 J	1.9	8.5	19	3.7 U	3.8 U	3.6 U	3.6 U	8.4	3.6 U	3.9 U	9.8	4.2	3.7 U
Aroclor 1232	ug/kg	1.9 U	1.9 U	2.0 UJ	2.3 U	2.1 U	11 U	1.9 UJ	2.0 UJ	1.8 UJ	1.8 UJ	9.0 U	1.8 UJ	2.0 UJ	9.9 U	1.9 U	1.9 U
Aroclor 5442	ug/kg	3.7 U	3.6 U	3.8 UJ	4.4 U	4.1 U	21 U	3.7 U	3.8 U	3.6 U	3.6 U	18 U	3.6 U	3.9 U	19 U	3.6 U	3.7 U
Aroclor 1248	ug/kg	1.9 U	1.9 U	2.0 UJ	2.3 U	2.1 U	11 U	1.9 U	2.0 U	1.8 U	1.8 U	9.0 U	1.8 U	2.0 U	9.9 U	1.9 UJ	1.9 U
Aroclor 1016	ug/kg	1.9 U	1.9 U	2.0 UJ	2.3 U	2.1 U	11 U	1.9 UJ	2.0 UJ	1.8 UJ	1.8 UJ	9.0 U	1.8 UJ	2.0 UJ	9.9 U	1.9 UJ	1.9 U
Aroclor 1262	ug/kg	1.9 U	1.9 U	2.0 UJ	2.3 U	2.1 U	11 U	1.9 U	2.0 U	1.8 U	1.8 U	9.0 U	1.8 U	2.0 U	9.9 U	1.9 U	1.9 U
Aroclor 1242	ug/kg	1.9 U	1.9 U	2.0 UJ	2.3 U	2.1 U	11 U	1.9 U	2.0 U	1.8 U	1.8 U	9.0 UJ	1.8 U	2.0 U	9.9 U	1.9 U	1.9 U
Aroclor 5432	ug/kg	3.7 U	3.6 U	3.8 UJ	4.4 U	4.1 UJ	21 U	3.7 U	3.8 U	3.6 U	3.6 U	18 U	3.6 U	3.9 U	19 U	3.6 U	3.7 U

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

Appendix A4
Dioxins and PCBs - Validated Data
HSA-5C

Sample Name		SL-122-SA5C-SB-9.0-10.0	SL-123-SA5C-SS-0.0-0.5	SL-124-SA5C-SS-0.0-0.5	SL-124-SA5C-SB-4.5-5.5	SL-125-SA5C-SS-0.0-0.5	SL-125-SA5C-SB-4.0-6.0	SL-125-SA5C-SB-7.0-9.0	SL-126-SA5C-SB-4.0-5.0	SL-126-SA5C-SB-9.0-10.0	SL-127-SA5C-SS-0.0-0.5	SL-127-SA5C-SB-4.0-5.0	SL-127-SA5C-SB-7.5-8.5	SL-128-SA5C-SS-0.0-0.5	SL-128-SA5C-SB-4.0-5.0	SL-128-SA5C-SB-8.0-9.0	SL-129-SA5C-SS-0.0-0.5
Sample Date		11/05/2010	10/19/2010	10/20/2010	01/05/2011	10/18/2010	11/01/2010	11/01/2010	11/02/2010	11/02/2010	10/18/2010	11/01/2010	11/01/2010	10/18/2010	11/02/2010	11/02/2010	10/18/2010
SDG		DE010	DOE01	DE001	DE053	DOE01	DE006	DE006	DE007	DE007	DOE01	DE006	DE006	DOE01	DE007	DE007	DOE01
Start Depth		9	0	0	4.5	0	4	7	4	9	0	4	7.5	0	4	8	0
End Depth		10	0.5	0.5	5.5	0.5	6	9	5	10	0.5	5	8.5	0.5	5	9	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
2,3,7,8-TCDD	ng/kg	0.0298	0.664 J	1.11 U	1.13 U	0.285 J	1.11 U	1.09 U	1.13 U	1.11 U	1.14 U	1.10 U	1.07 U	0.213 J	1.14 U	1.08 UJ	0.241 J
1,2,3,7,8,9-HxCDD	ng/kg	0.0306	35.3	1.67 J	0.118 J	34.8	0.244 J	0.469 J	5.63 U	5.54 U	1.82 J	5.49 U	5.34 U	12.0	5.71 UJ	5.38 UJ	17.7
OCDD	ng/kg	0.405	14800 J	655	13.9	71200 J	147	678	11.3 U	11.1 U	511	11.0 U	10.7 U	11100 J	11.4 UJ	22.6 J	9370 J
1,2,3,4,6,7,8-HpCDD	ng/kg	0.146	1730	58.5	1.43 J	2830 J	7.46	28.9	5.63 U	5.54 U	26.9	5.49 U	5.34 U	797	5.71 UJ	1.57 J	839
OCDF	ng/kg	0.181	333	17.0	11.3 U	1000	2.00 J	8.74 J	11.3 U	11.1 U	6.36 J	11.0 U	10.7 U	248	11.4 UJ	10.8 UJ	241
1,2,3,4,7,8-HxCDD	ng/kg	0.0236	13.4	0.617 J	5.63 U	11.8	0.0918 J	0.196 J	5.63 U	5.54 U	0.494 J	5.49 U	5.34 U	5.73	5.71 UJ	5.38 UJ	7.03
1,2,3,7,8-PeCDD	ng/kg	0.0730	7.94	0.474 J	5.63 U	4.05 J	5.55 U	0.103 J	5.63 U	5.54 U	0.415 J	5.49 U	5.34 U	2.25 J	5.71 UJ	5.38 UJ	3.46 J
2,3,7,8-TCDF	ng/kg	0.0274	0.412 J	2.45	1.13 U	0.499 J	1.11 U	1.09 U	1.13 U	1.11 U	1.14 U	1.10 U	1.07 U	0.860 J	1.14 UJ	1.08 UJ	1.87
1,2,3,4,7,8,9-HpCDF	ng/kg	0.0417	10.7	0.727 J	5.63 U	7.92	5.55 U	5.45 U	5.63 U	5.54 U	5.70 U	5.49 U	5.34 U	17.4	5.71 UJ	5.38 UJ	13.5
2,3,4,7,8-PeCDF	ng/kg	0.0952	2.33 J	1.64 J	5.63 U	3.35 J	5.55 U	5.45 U	5.63 U	5.54 U	5.70 U	5.49 U	5.34 U	1.98 J	5.71 UJ	5.38 U	1.89 J
1,2,3,7,8-PeCDF	ng/kg	0.0869	1.86 J	5.57 U	0.508 J	2.04 J	5.55 U	5.45 U	5.63 U	5.54 U	0.176 J	5.49 U	5.34 U	3.30 J	5.71 UJ	5.38 U	2.86 J
1,2,3,6,7,8-HxCDF	ng/kg	0.0666	4.51 J	1.22 J	5.63 U	2.41 J	5.55 U	5.45 U	5.63 U	5.54 U	0.123 J	5.49 U	5.34 U	3.51 J	5.71 UJ	5.38 UJ	3.42 J
1,2,3,6,7,8-HxCDD	ng/kg	0.0272	86.8	2.44 J	0.129 J	91.3	0.295 J	0.909 J	5.63 U	5.54 U	1.77 J	5.49 U	5.34 U	28.1	5.71 UJ	5.38 UJ	34.5
2,3,4,6,7,8-HxCDF	ng/kg	0.0660	8.54	0.957 J	5.63 U	4.43 J	5.55 U	5.45 U	5.63 U	5.54 U	5.70 U	5.49 U	5.34 U	6.18	5.71 UJ	5.38 UJ	6.35
1,2,3,4,6,7,8-HpCDF	ng/kg	0.269	141	6.86	5.63 U	148	0.482 J	1.71 J	5.63 U	5.54 U	5.70 U	5.49 U	5.34 U	94.3	5.71 UJ	5.38 UJ	94.7
1,2,3,4,7,8-HxCDF	ng/kg	0.0631	4.45 J	1.53 J	5.63 U	12.3	5.55 U	5.45 U	5.63 U	5.54 U	5.70 U	5.49 U	5.34 U	3.48 J	5.71 UJ	5.38 U	3.72 J
1,2,3,7,8,9-HxCDF	ng/kg	0.0543	1.16 J	0.703 J	5.63 U	4.20 J	5.55 U	5.45 U	5.63 U	5.54 U	1.19 J	5.49 U	5.34 U	1.19 J	5.71 UJ	5.38 U	1.12 J
Aroclor 1260	ug/kg	1.8 U	8.0	470 U	2.7	2.0	1.9 U	1.9 U	1.9 U	1.9 U	0.39	1.9 U	1.8 U	37	1.9 U	1.8 U	31
Aroclor 1254	ug/kg	1.8 U	13	1100	4.9	2.8	1.9 U	1.9 U	1.9 U	1.9 U	0.80	1.9 U	1.8 U	70	1.9 U	0.67 J	89
Aroclor 1268	ug/kg	1.8 U	2.1 U	470 U	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	18 U	1.9 U	1.8 U	9.2 U
Aroclor 1221	ug/kg	1.8 U	2.1 U	470 U	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 R	1.9 U	1.8 U	18 U	1.9 U	1.8 U	9.2 UJ
Aroclor 5460	ug/kg	3.5 U	5.3 J	920 U	2.1 J	1.8	3.7 U	3.6 U	3.7 U	3.7 U	3.8 U	3.6 U	3.5 U	17	3.8 U	3.5 U	21
Aroclor 1232	ug/kg	1.8 U	2.1 U	470 U	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	18 U	1.9 U	1.8 U	9.2 U
Aroclor 5442	ug/kg	3.5 U	4.2 U	920 U	3.7 U	3.5 U	3.7 U	3.6 U	3.7 U	3.7 U	3.8 U	3.6 U	3.5 U	35 U	3.8 U	3.5 U	18 UJ
Aroclor 1248	ug/kg	1.8 U	2.1 U	470 U	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	18 U	1.9 U	1.8 U	9.2 U
Aroclor 1016	ug/kg	1.8 U	2.1 U	470 U	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	18 U	1.9 U	1.8 U	9.2 U
Aroclor 1262	ug/kg	1.8 U	2.1 U	470 U	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	18 U	1.9 U	1.8 U	9.2 UJ
Aroclor 1242	ug/kg	1.8 U	2.1 U	470 U	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	18 U	1.9 U	1.8 U	9.2 UJ
Aroclor 5432	ug/kg	3.5 U	4.2 U	920 U	3.7 U	3.5 U	3.7 U	3.6 U	3.7 U	3.7 U	3.8 U	3.6 U	3.5 U	35 U	3.8 U	3.5 U	18 U

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

Appendix A4
Dioxins and PCBs - Validated Data
HSA-5C

Sample Name		SL-129-SA5C-SB-4.0-5.0	SL-129-SA5C-SB-9.0-10.0	SL-130-SA5C-SS-0.0-0.5	SL-130-SA5C-SB-4.0-5.0	SL-130-SA5C-SB-9.0-10.0	SL-131-SA5C-SB-4.0-5.0	SL-131-SA5C-SB-8.5-9.5	SL-132-SA5C-SS-0.0-0.5	SL-132-SA5C-SB-4.0-5.0	SL-133-SA5C-SS-0.0-0.5	SL-133-SA5C-SB-4.0-5.0	SL-133-SA5C-SB-8.0-9.0	SL-134-SA5C-SS-0.0-0.5	SL-134-SA5C-SB-4.0-5.0	SL-135-SA5C-SS-0.0-0.5	SL-136-SA5C-SS-0.0-0.5
Sample Date		11/05/2010	11/05/2010	10/18/2010	11/03/2010	11/03/2010	11/04/2010	11/04/2010	10/18/2010	11/04/2010	10/18/2010	11/04/2010	11/04/2010	10/19/2010	11/04/2010	10/19/2010	10/20/2010
SDG		DE010	DE010	DOE01	DE008	DE008	DE009	DE009	DOE01	DE009	DOE01	DE009	DE009	DOE01	DE009	DOE01	DE001
Start Depth		4	9	0	4	9	4	8.5	0	4	0	4	8	0	4	0	0
End Depth		5	10	0.5	5	10	5	9.5	0.5	5	0.5	5	9	0.5	5	0.5	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
2,3,7,8-TCDD	ng/kg	1.12 U	1.15 U	1.06 U	0.177	0.0217	0.0191	1.05 U	1.21 U	0.0250	0.189 J	1.13 U	0.0152	0.181 J	0.0364	1.14 U	1.18 UJ
1,2,3,7,8,9-HxCDD	ng/kg	0.0599	0.660	11.1	0.273	0.0763	1.14	0.346	0.360 J	0.0772	14.1	0.801	0.0436	13.6	0.100	2.50 J	8.62
OCDD	ng/kg	1.03	297	5610 J	10.2	2.82	254	160	88.6	11.9	6290 J	48.6	4.73	7720 J	2.25	1430	5080 J
1,2,3,4,6,7,8-HpCDD	ng/kg	0.290	27.4	531	1.10	0.491	26.1	16.8	5.38 J	1.16	664	4.92	0.593	688	0.416	100	558
OCDF	ng/kg	0.445	6.92	159	0.735	0.515	7.83	5.69	12.1 U	0.388	209	1.46	0.293	197	0.368	39.5	118 J
1,2,3,4,7,8-HxCDD	ng/kg	5.59 U	0.257	4.44 J	0.119	0.0454	0.221	0.160	6.03 U	0.0225	6.38	0.0565	5.25 U	5.97	0.0257	1.26 J	4.47 J
1,2,3,7,8-PeCDD	ng/kg	0.0877	0.168	2.43 J	0.272	0.114	0.186	0.103	6.03 U	5.64 U	2.52 J	0.0896	5.25 U	2.43 J	0.0685	0.695 J	2.14 J
2,3,7,8-TCDF	ng/kg	0.0194	0.0343	1.45	0.106	0.0273	0.0806	1.05 U	1.21 U	0.0221	0.986 J	0.0262	1.05 U	1.10	1.12 U	0.681 J	1.18 UJ
1,2,3,4,7,8,9-HpCDF	ng/kg	0.0899	0.549	9.54	0.202	0.102	0.510	0.313	6.03 U	5.64 U	12.9	0.135	5.25 U	11.3	0.161	1.10 J	4.83 J
2,3,4,7,8-PeCDF	ng/kg	0.0645 J	0.0894	1.68 J	0.353	0.159	5.26 U	0.123	6.03 U	5.64 U	1.76 J	0.0618	5.25 U	1.49 J	0.108	0.912 J	0.900 J
1,2,3,7,8-PeCDF	ng/kg	5.59 UJ	0.123	1.93 J	0.400	0.132	5.26 U	0.104	6.03 U	5.64 U	2.32 J	0.158	5.25 U	2.04 J	0.0673	5.68 U	0.300 J
1,2,3,6,7,8-HxCDF	ng/kg	5.59 UJ	5.75 U	2.40 J	5.64 U	0.128	5.26 U	0.116	0.236 J	5.64 U	3.37 J	0.0746	5.25 U	3.30 J	0.0681	0.687 J	1.60 J
1,2,3,6,7,8-HxCDD	ng/kg	5.59 UJ	5.75 U	22.9	5.64 U	0.0531	5.26 U	0.573	0.357 J	5.64 U	27.5	0.620	5.25 U	26.1	0.0681	3.94 J	22.9 J
2,3,4,6,7,8-HxCDF	ng/kg	5.59 UJ	0.207	4.83 J	5.64 U	0.218	5.26 U	0.203	6.03 U	5.64 U	5.76	0.110	5.25 U	5.53	0.0889	0.831 J	4.28 J
1,2,3,4,6,7,8-HpCDF	ng/kg	5.59 UJ	5.75 U	64.6	0.912	0.887	5.26 U	2.34	6.03 U	5.64 U	87.8	0.824	5.25 U	83.0	0.319	16.1	52.4 J
1,2,3,4,7,8-HxCDF	ng/kg	5.59 UJ	0.136	3.17 J	5.64 U	0.157	5.26 U	0.122	6.03 U	5.64 U	3.11 J	0.0634	5.25 U	2.70 J	0.0996	1.01 J	1.52 J
1,2,3,7,8,9-HxCDF	ng/kg	5.59 UJ	5.75 U	0.709 J	5.64 U	0.106	5.26 U	0.0727	6.03 U	5.64 U	0.936 J	0.902	5.25 U	0.637 J	0.196	0.749 J	0.403 J
Aroclor 1260	ug/kg	1.9 U	2.0 U	22	1.9 U	1.9 U	15	0.84 J	0.68	1.9 U	27	7.3	1.8 U	39	1.9 U	48 J	5.4 J
Aroclor 1254	ug/kg	1.9 U	2.0 U	97	1.9 U	1.9 U	49	3.0	1.5	1.9 U	41	16	1.8 U	95	1.9 U	130 J	7.1 J
Aroclor 1268	ug/kg	1.9 U	2.0 U	9.1 U	1.9 U	1.9 U	3.6 U	1.8 U	2.1 U	1.9 U	9.1 U	3.8 U	1.8 U	9.2 U	1.9 U	19 U	2.0 U
Aroclor 1221	ug/kg	1.9 U	2.0 U	9.1 U	1.9 UJ	1.9 UJ	3.6 UJ	1.8 UJ	2.1 U	1.9 UJ	9.1 U	3.8 UJ	1.8 UJ	9.2 U	1.9 UJ	19 UJ	2.0 U
Aroclor 5460	ug/kg	3.7 U	3.8 U	17	3.7 U	3.7 U	5.5 J	3.5 U	4.0 U	3.7 U	18	3.2 J	3.5 U	170 J	3.7 U	38 U	3.9 U
Aroclor 1232	ug/kg	1.9 U	2.0 U	9.1 U	1.9 UJ	1.9 UJ	3.6 UJ	1.8 UJ	2.1 U	1.9 UJ	9.1 U	3.8 UJ	1.8 UJ	9.2 UJ	1.9 UJ	19 UJ	2.0 U
Aroclor 5442	ug/kg	3.7 U	3.8 U	18 U	3.7 U	3.7 U	6.9 U	3.5 U	4.0 U	3.7 U	18 U	7.5 U	3.5 U	18 UJ	3.7 U	38 U	3.9 U
Aroclor 1248	ug/kg	1.9 U	2.0 U	9.1 U	1.9 U	1.9 U	3.6 U	1.8 U	2.1 UJ	1.9 U	9.1 U	3.8 U	1.8 U	9.2 U	1.9 U	19 U	2.0 U
Aroclor 1016	ug/kg	1.9 U	2.0 U	9.1 U	1.9 UJ	1.9 UJ	3.6 UJ	1.8 UJ	2.1 U	1.9 UJ	9.1 U	3.8 UJ	1.8 UJ	9.2 U	1.9 UJ	19 UJ	2.0 U
Aroclor 1262	ug/kg	1.9 U	2.0 U	9.1 U	1.9 U	1.9 U	3.6 U	1.8 U	2.1 U	1.9 U	9.1 U	3.8 U	1.8 U	9.2 U	1.9 U	19 UJ	2.0 U
Aroclor 1242	ug/kg	1.9 U	2.0 U	9.1 UJ	1.9 U	1.9 U	3.6 U	1.8 U	2.1 U	1.9 U	9.1 U	3.8 U	1.8 U	9.2 U	1.9 U	19 UJ	2.0 U
Aroclor 5432	ug/kg	3.7 U	3.8 U	18 U	3.7 U	3.7 U	6.9 U	3.5 U	4.0 U	3.7 U	18 U	7.5 U	3.5 U	18 U	3.7 U	38 UJ	3.9 U

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

Appendix A4
Dioxins and PCBs - Validated Data
HSA-5C

Sample Name		SL-137-SA5C-SS-0.0-0.5	SL-137-SA5C-SB-4.5-5.5	SL-140-SA5C-SB-3.0-4.0	SL-141-SA5C-SS-0.0-0.5	SL-142-SA5C-SS-0.0-0.5	SL-143-SA5C-SS-0.0-0.5	SL-144-SA5C-SS-0.0-0.5	SL-145-SA5C-SS-0.0-0.5
Sample Date		10/20/2010	01/05/2011	12/14/2010	10/20/2010	10/27/2010	10/20/2010	10/20/2010	10/20/2010
SDG		DE001	DE053	DE039	DE001	DE005	DE001	DE001	DE001
Start Depth		0	4.5	3	0	0	0	0	0
End Depth		0.5	5.5	4	0.5	0.5	0.5	0.5	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result
2,3,7,8-TCDD	ng/kg	1.14 U	0.0454 J	1.11 U	1.14 U	1.14 U	1.15 U	1.18 U	1.30 U
1,2,3,7,8,9-HxCDD	ng/kg	1.07 J	0.232 J	5.56 U	2.74 J	1.07 J	1.46 J	13.6	3.51 J
OCDD	ng/kg	534	31.3	11.1 U	1270	467	470	5830 J	892
1,2,3,4,6,7,8-HpCDD	ng/kg	51.1	2.69 J	5.56 U	65.3	45.8	28.4	734	111
OCDF	ng/kg	13.7	11.3 U	11.1 U	13.5	11.1 J	7.11 J	153	33.1
1,2,3,4,7,8-HxCDD	ng/kg	0.415 J	0.0546 J	5.56 U	0.740 J	0.428 J	0.612 J	6.52	1.49 J
1,2,3,7,8-PeCDD	ng/kg	0.307 J	5.66 U	5.56 U	0.617 J	0.235 J	0.467 J	3.33 J	0.975 J
2,3,7,8-TCDF	ng/kg	1.14 U	1.13 U	1.11 U	1.14 U	0.157 J	1.15 U	0.175 J	0.310 J
1,2,3,4,7,8,9-HpCDF	ng/kg	0.537 J	5.66 U	5.56 U	0.290 J	0.470 J	0.216 J	5.45 J	1.09 J
2,3,4,7,8-PeCDF	ng/kg	0.576 J	5.66 U	5.56 U	0.236 J	5.68 U	0.313 J	0.986 J	0.584 J
1,2,3,7,8-PeCDF	ng/kg	5.68 U	0.721 J	5.56 U	5.72 U	0.699 J	0.0952 J	0.433 J	6.48 U
1,2,3,6,7,8-HxCDF	ng/kg	0.556 J	5.66 U	5.56 U	0.248 J	0.238 J	0.168 J	2.03 J	0.723 J
1,2,3,6,7,8-HxCDD	ng/kg	2.02 J	0.259 J	5.56 U	2.90 J	1.48 J	1.50 J	32.3	5.42 J
2,3,4,6,7,8-HxCDF	ng/kg	0.462 J	5.66 U	5.56 U	5.72 U	0.313 J	0.275 J	4.09 J	1.17 J
1,2,3,4,6,7,8-HpCDF	ng/kg	6.08	5.66 U	5.56 U	4.43 J	4.68 J	2.55 J	65.8	14.7
1,2,3,4,7,8-HxCDF	ng/kg	0.534 J	0.155 J	5.56 U	0.343 J	5.68 U	0.185 J	1.90 J	0.922 J
1,2,3,7,8,9-HxCDF	ng/kg	0.322 J	5.66 U	5.56 U	0.586 J	5.68 U	0.454 J	0.438 J	0.380 J
Aroclor 1260	ug/kg	51	4.6	1.9 U	2.0	4.0	1.0 J	5.5	14
Aroclor 1254	ug/kg	150	8.8	1.9 U	5.3	6.2	2.3	7.6	12
Aroclor 1268	ug/kg	19 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	2.0 U	2.2 U
Aroclor 1221	ug/kg	19 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	2.0 U	2.2 U
Aroclor 5460	ug/kg	55	3.2 J	3.7 UJ	5.1	3.7 U	1.9 J	4.6	11
Aroclor 1232	ug/kg	19 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	2.0 U	2.2 U
Aroclor 5442	ug/kg	38 U	3.7 U	3.7 UJ	3.8 U	3.7 U	3.8 U	3.9 U	4.3 U
Aroclor 1248	ug/kg	19 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	2.0 U	2.2 U
Aroclor 1016	ug/kg	19 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	2.0 U	2.2 U
Aroclor 1262	ug/kg	19 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	2.0 U	2.2 U
Aroclor 1242	ug/kg	19 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	2.0 U	2.2 U
Aroclor 5432	ug/kg	38 U	3.7 U	3.7 UJ	3.8 U	3.7 U	3.8 U	3.9 U	4.3 U

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

Appendix A5
Pesticides - Validated Data
HSA-5C

Sample Name		SL-001-SA5C-SS-0.0-0.5	SL-002-SA5C-SS-0.0-0.5	SL-004-SA5C-SS-0.0-0.5	SL-008-SA5C-SS-0.0-0.5	SL-012-SA5C-SS-0.0-0.5	SL-018-SA5C-SS-0.0-0.5	SL-020-SA5C-SS-0.0-0.5	SL-024-SA5C-SS-0.0-0.5	SL-026-SA5C-SS-0.0-0.5	SL-027-SA5C-SS-0.0-0.5	SL-032-SA5C-SS-0.0-0.5	SL-033-SA5C-SS-0.0-0.5	SL-036-SA5C-SS-0.0-0.5	SL-038-SA5C-SS-0.0-0.5	SL-039-SA5C-SS-0.0-0.5
Sample Date		10/26/2010	10/26/2010	10/26/2010	10/26/2010	10/26/2010	10/26/2010	10/26/2010	10/26/2010	10/25/2010	10/25/2010	10/25/2010	10/26/2010	01/04/2011	10/25/2010	01/04/2011
SDG		DE004	DE004	DE004	DE004	DE004	DE004	DE004	DE004	DE004	DE004	DE004	DE004	DE052	DE004	DE052
Start Depth		0	0	0	0	0	0	0	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	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Dichlorprop	ug/kg	1.9 U	1.9 U	1.9 U	2.0 U	2.0 U	2.0 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U	40 U	1.8 U	39 U
Dicamba	ug/kg	1.3 U	1.4 U	1.3 U	1.4 U	1.4 U	1.4 U	1.3 U	1.3 U	1.3 U	1.3 U	0.82 J	1.3 U	29 U	1.3 U	27 U
2,2-Dichlor-Propionic Acid	ug/kg	9.8 U	10 U	10 U	11 U	10 U	10 U	9.8 U	9.9 U	9.8 U	9.9 U	10 U	9.7 U	210 U	9.7 U	210 U
Dinitrobutyl Phenol	ug/kg	2.6 R	2.7 R	2.7 R	2.8 R	2.8 R	2.8 R	2.6 R	2.6 R	2.6 R	2.6 R	2.7 R	2.6 R	57 R	2.6 R	55 R
MCPP	ug/kg	460	280 U	280 U	290 U	290 U	170 J	370	270 U	270 U	310	280 U	710	6000 U	510	5700 U
2,4,5-TP	ug/kg	0.19 U	0.19 U	0.19 U	0.20 U	0.20 U	0.20 U	0.19 U	0.19 U	0.18 U	0.19 U	0.19 U	0.18 U	4.0 U	0.18 U	3.9 U
2,4,5-T	ug/kg	0.24 U	0.19 U	0.19 U	0.20 U	0.20 U	0.20 U	0.19 U	0.11 J	0.18 U	0.19 U	0.19 U	0.18 U	4.0 U	0.18 U	3.9 U
MCPA	ug/kg	270 U	280 U	280 U	290 U	290 U	290 U	270 U	210 J	130 J	270 U	140 J	250 J	6000 U	270 U	5700 U
2,4-D	ug/kg	3.9 U	4.1 U	4.0 U	4.2 U	4.1 U	4.2 U	3.9 U	4.0 U	3.9 U	4.0 U	4.0 U	3.9 U	86 U	3.9 U	82 U
2,4 DB	ug/kg	5.2	1.9 U	1.9 U	2.0 U	2.0 U	2.0 U	14 U	1.9 U	13 U	1.9 U	10	1.8 U	40 U	5.3 U	39 U
Toxaphene	ug/kg	7.2 U	7.5 U	7.4 U	7.8 UJ	7.6 U	7.6 U	7.2 U	7.3 U	7.2 U	7.3 U	7.4 U	7.1 U	7.9 U	7.1 U	76 U
Heptachlor Epoxide	ug/kg	0.18 U	0.19 U	0.19 U	0.20 UJ	0.19 U	0.19 U	0.15 J	0.18 U	0.18 U	0.18 U	0.19 U	0.18 U	0.20 U	0.18 U	1.9 U
Endosulfan Sulfate	ug/kg	0.37 U	0.39 U	0.38 U	0.40 UJ	0.39 U	0.39 U	0.37 U	0.37 U	0.37 U	0.37 U	0.38 U	0.37 U	0.40 U	0.37 U	3.9 U
Mirex	ug/kg	0.37 U	0.39 U	0.38 U	0.40 UJ	0.39 U	0.39 U	0.37 U	0.64 U	0.37 U	0.37 U	0.48 U	0.37 U	0.40 U	0.37 U	9.5 J
Aldrin	ug/kg	0.18 U	0.19 U	0.19 U	0.20 UJ	0.19 U	0.19 U	0.18 U	0.18 U	0.18 U	0.18 U	0.19 U	0.18 U	0.20 U	0.18 U	1.9 U
Alpha-BHC	ug/kg	0.18 U	0.19 U	0.19 U	0.20 UJ	0.19 U	0.19 U	0.18 U	0.66 U	0.18 U	0.18 U	0.19 U	0.18 U	0.20 U	0.18 U	1.9 U
Beta-BHC	ug/kg	0.18 U	0.19 U	0.19 U	0.20 UJ	0.19 U	0.19 U	0.18 U	0.12 J	0.18 U	0.11 J	0.080 J	0.10 J	0.20 U	0.18 U	1.9 U
Delta-BHC	ug/kg	0.18 U	0.19 U	0.19 U	0.20 UJ	0.19 U	0.19 U	0.18 U	0.18 U	0.18 U	0.18 U	0.19 U	0.18 U	0.20 U	0.18 U	1.9 U
Endosulfan II	ug/kg	0.37 U	0.39 U	0.38 U	0.40 UJ	0.39 U	0.39 U	0.37 U	0.37 U	0.37 U	0.37 U	0.38 U	0.37 U	0.40 U	0.37 U	3.9 U
4,4'-DDT	ug/kg	0.37 U	0.39 U	0.38 U	0.40 UJ	0.39 U	0.39 U	0.37 U	3.7 U	1.8 U	0.76 U	2.9 U	0.37 U	0.40 U	0.37 U	3.9 U
Endrin Ketone	ug/kg	0.37 U	0.39 U	0.38 U	0.40 UJ	0.39 U	0.39 U	0.37 U	0.37 U	0.37 U	0.37 U	0.38 U	0.37 U	0.40 U	0.37 U	3.9 U
Chlordane	ug/kg	3.7 U	3.9 U	3.8 U	4.0 UJ	3.9 U	3.9 U	3.7 U	4.6 U	3.7 U	3.7 U	4.9 U	3.7 U	4.0 U	3.7 U	39 U
Gamma-BHC (Lindane)	ug/kg	0.18 U	0.19 U	0.19 U	0.20 UJ	0.19 U	0.19 U	0.18 U	0.18 U	0.18 U	0.18 U	0.19 U	0.18 U	0.20 U	0.18 U	1.9 U
Dieldrin	ug/kg	0.37 U	0.39 U	0.38 U	0.40 UJ	0.39 U	0.39 U	0.37 U	0.51 U	0.37 U	0.37 U	0.38 U	0.37 U	0.40 U	0.37 U	3.9 U
Endrin	ug/kg	0.37 U	0.39 U	0.38 U	0.40 UJ	0.39 U	0.39 U	0.37 U	0.37 U	0.37 U	0.37 U	0.60 U	0.37 U	0.40 U	0.37 U	3.9 U
Methoxychlor	ug/kg	1.8 U	1.9 U	1.9 U	2.0 UJ	1.9 U	1.9 U	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U	1.8 U	2.0 U	1.8 U	19 U
4,4'-DDD	ug/kg	0.37 U	0.39 U	0.38 U	0.40 UJ	0.39 U	0.39 U	0.37 U	2.7 U	0.37 U	0.37 U	0.38 U	0.56 U	0.40 U	0.37 U	3.9 U
4,4'-DDE	ug/kg	0.37 U	0.39 U	0.38 U	0.40 UJ	0.39 U	0.39 U	0.37 U	0.84 U	1.7 U	0.37 U	0.97 U	0.37 U	0.40 U	0.37 U	3.9 U
Endrin Aldehyde	ug/kg	0.37 U	0.39 U	0.38 U	0.40 UJ	0.39 U	0.39 U	0.37 U	0.37 U	0.37 U	0.37 U	0.38 U	0.37 U	0.40 U	0.37 U	3.9 U
Heptachlor	ug/kg	0.18 U	0.19 U	0.19 U	0.20 UJ	0.19 U	0.19 U	0.18 U	0.18 U	0.18 U	0.18 U	0.19 U	0.18 U	0.20 U	0.18 U	1.9 U
Endosulfan I	ug/kg	0.18 U	0.23 U	0.19 U	0.20 UJ	0.19 U	0.19 U	0.18 U	0.18 U	0.18 U	0.18 U	0.19 U	0.18 U	0.20 U	0.18 U	1.9 U

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

Appendix A5
Pesticides - Validated Data
HSA-5C

Sample Name		SL-041-SA5C-SS-0.0-0.5	SL-042-SA5C-SS-0.0-0.5	SL-043-SA5C-SS-0.0-0.5	SL-045-SA5C-SS-0.0-0.5	SL-047-SA5C-SS-0.0-0.5	SL-049-SA5C-SS-0.0-0.5	SL-050-SA5C-SS-0.0-0.5	SL-051-SA5C-SS-0.0-0.5	SL-052-SA5C-SS-0.0-0.5	SL-053-SA5C-SS-0.0-0.5	SL-054-SA5C-SS-0.0-0.5	SL-056-SA5C-SS-0.0-0.5	SL-057-SA5C-SS-0.0-0.5	SL-060-SA5C-SS-0.0-0.5	SL-061-SA5C-SS-0.0-0.5
Sample Date		10/25/2010	11/19/2010	10/25/2010	10/25/2010	10/25/2010	10/22/2010	10/22/2010	10/21/2010	10/21/2010	10/22/2010	10/21/2010	10/22/2010	10/22/2010	10/22/2010	10/22/2010
SDG		DE004	DE020	DE004	DE004	DE004	DE003	DE003	DX002	DX002	DE003	DX002	DE003	DE003	DE003	DE003
Start Depth		0	0	0	0	0	0	0	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	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Dichlorprop	ug/kg	1.8 U	1.8 UJ	3.4 U	1.8 U	1.8 U	1.9 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	2.0 U	1.8 U	1.8 U	1.8 U
Dicamba	ug/kg	1.3 R	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.4 U	1.3 U	0.69 J	0.55 J
2,2-Dichlor-Propionic Acid	ug/kg	9.7 R	9.4 R	10 U	9.7 U	9.6 U	9.9 U	10 U	10 U	9.7 U	9.9 U	10 U	11 U	9.6 U	9.7 U	9.8 U
Dinitrobutyl Phenol	ug/kg	2.6 R	2.5 R	2.7 R	2.6 R	2.6 R	2.6 R	2.7 R	2.7 R	2.6 R	2.6 R	2.7 R	2.8 R	2.6 R	2.6 R	2.6 R
MCPP	ug/kg	340 J	260 U	660	260 J	550	270 U	280 U	280 U	270 U	280 U	280 U	300 U	270 U	390	490
2,4,5-TP	ug/kg	0.18 U	0.18 U	0.19 U	0.18 U	0.18 U	0.19 U	0.19 U	0.19 U	0.18 U	0.19 U	0.19 U	0.20 U	0.18 U	0.18 U	0.18 U
2,4,5-T	ug/kg	0.18 U	0.18 U	0.19 U	0.18 U	0.18 U	0.21	0.19 U	0.27 J	0.18 U	0.19 U	0.19 U	3.3	0.18 U	0.18 U	0.18 U
MCPA	ug/kg	550 J	600	280 U	270 U	270 U	270 U	280 U	400 J	190 J	280 U	700 J	300 U	280	390	270 U
2,4-D	ug/kg	3.9 U	3.8 U	4.0 U	3.9 U	3.9 U	4.0 U	4.0 U	4.0 U	3.9 U	4.0 U	4.0 U	4.3 U	3.8 U	3.9 U	3.9 U
2,4 DB	ug/kg	1.8 R	4.1	1.9 U	1.8 U	1.8 U	2.0	1.9 U	2.5 J	3.2 U	1.9 U	3.0 U	3.7 U	7.9	8.1 U	5.4 U
Toxaphene	ug/kg	7.1 U	6.9 U	7.3 U	7.1 U	7.1 U	7.2 U	7.3 U	7.4 U	7.1 U	7.3 U	7.4 U	39 U	7.0 U	7.1 U	7.2 U
Heptachlor Epoxide	ug/kg	0.18 R	0.17 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.19 UJ	0.18 UJ	0.18 U	0.19 UJ	0.98 U	0.18 U	0.18 U	0.18 U
Endosulfan Sulfate	ug/kg	0.36 U	0.35 U	0.38 U	0.37 U	0.36 U	0.37 U	0.38 U	0.38 UJ	0.36 UJ	0.37 U	0.38 UJ	2.0 U	0.36 U	0.37 U	0.37 U
Mirex	ug/kg	0.58 U	0.35 U	1.2 U	0.46 U	0.36 U	1.4 U	0.76 U	0.42 UJ	0.36 UJ	0.37 U	1.2 UJ	2.4 U	0.45 U	0.37 U	0.37 U
Aldrin	ug/kg	0.36 R	0.17 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.19 UJ	0.18 UJ	0.18 U	0.19 U	0.98 U	0.18 U	0.18 U	0.18 U
Alpha-BHC	ug/kg	0.18 U	0.17 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.19 U	0.18 U	0.18 U	0.19 U	0.98 U	0.18 U	0.18 U	0.18 U
Beta-BHC	ug/kg	0.18 U	0.17 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.16 J	0.18 UJ	0.18 U	0.19 U	0.98 U	0.18 U	0.18 U	0.18 U
Delta-BHC	ug/kg	0.18 U	0.17 U	0.57	0.18 U	0.18 U	0.18 U	0.18 U	0.19 U	0.18 U	0.18 U	0.19 U	0.35 J	0.29	0.18 U	0.077 J
Endosulfan II	ug/kg	0.36 R	0.35 U	0.38 U	0.37 U	0.36 U	0.37 U	0.38 U	0.38 UJ	0.36 UJ	0.37 U	0.38 UJ	2.0 U	0.36 U	0.37 U	0.37 U
4,4'-DDT	ug/kg	0.36 R	7.5 U	4.3 U	2.4 U	0.36 U	0.85 U	0.38 U	2.2 UJ	0.71 UJ	0.37 U	1.5 UJ	37 U	4.9 U	2.1 U	1.4 U
Endrin Ketone	ug/kg	0.36 U	0.35 U	0.38 U	0.37 U	0.36 U	0.37 U	0.38 U	0.38 UJ	0.36 UJ	0.37 U	0.38 UJ	3.3 U	0.36 U	0.37 U	0.37 U
Chlordane	ug/kg	5.2 U	4.5 U	7.9 U	3.7 U	3.6 U	4.1 U	3.8 U	3.8 U	3.6 U	3.7 U	3.8 U	21 U	9.4 U	5.5 U	3.7 U
Gamma-BHC (Lindane)	ug/kg	0.18 U	0.17 U	0.070 J	0.18 U	0.18 U	0.18 U	0.17 J	0.19 U	0.18 U	0.18 U	0.19 U	0.98 U	0.18 U	0.18 U	0.18 U
Dieldrin	ug/kg	0.36 U	0.38 U	0.39 U	0.42 U	0.36 U	0.34 J	0.38 U	0.38 UJ	0.36 UJ	0.37 U	0.39 UJ	4.1 U	0.36 U	0.37 U	0.37 U
Endrin	ug/kg	0.42 U	0.35 U	0.38 U	0.37 U	0.36 U	0.37 U	0.38 U	0.38 UJ	0.36 UJ	0.37 U	0.38 UJ	2.0 U	0.36 U	0.37 U	0.37 U
Methoxychlor	ug/kg	1.8 U	1.7 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.9 UJ	1.8 UJ	1.8 U	1.9 UJ	9.8 U	1.8 U	1.8 U	1.8 U
4,4'-DDD	ug/kg	0.36 R	0.47 U	0.71 U	0.37 U	0.36 U	0.79 U	0.38 U	0.86 U	0.36 U	0.37 U	1.3 U	3.4 U	0.39 U	0.37 U	0.37 U
4,4'-DDE	ug/kg	1.3 U	1.0 U	11 U	4.0 U	0.36 U	0.65 U	0.38 U	0.79 UJ	0.39 UJ	0.37 U	0.77 U	4.0 U	0.84 U	1.5 U	0.88 U
Endrin Aldehyde	ug/kg	0.39 U	0.35 U	0.53 U	0.37 U	0.36 U	0.43 U	0.38 U	0.38 UJ	0.36 UJ	0.37 U	0.40 UJ	8.9 U	0.86 U	0.37 U	0.37 U
Heptachlor	ug/kg	0.18 U	0.17 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.19 U	0.18 U	0.18 U	0.19 U	0.98 U	0.18 U	0.18 U	0.18 U
Endosulfan I	ug/kg	0.18 R	0.17 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.19 UJ	0.18 UJ	0.18 U	0.19 UJ	0.98 U	0.18 U	0.18 U	0.18 U

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

Appendix A5
Pesticides - Validated Data
HSA-5C

Sample Name		SL-062-SA5C-SS-0.0-0.5	SL-065-SA5C-SS-0.0-0.5	SL-066-SA5C-SS-0.0-0.5	SL-067-SA5C-SS-0.0-0.5	SL-068-SA5C-SS-0.0-0.5	SL-072-SA5C-SS-0.0-0.5	SL-073-SA5C-SS-0.0-0.5	SL-076-SA5C-SS-0.0-0.5	SL-077-SA5C-SS-0.0-0.5	SL-078-SA5C-SS-0.0-0.5	SL-079-SA5C-SS-0.0-0.5	SL-080-SA5C-SS-0.0-0.5	SL-086-SA5C-SS-0.0-0.5	SL-088-SA5C-SS-0.0-0.5	SL-090-SA5C-SS-0.0-0.5
Sample Date		10/22/2010	10/22/2010	10/22/2010	10/21/2010	10/21/2010	10/21/2010	10/27/2010	10/22/2010	10/22/2010	10/22/2010	10/21/2010	10/21/2010	10/22/2010	11/15/2010	10/22/2010
SDG		DE003	DE003	DE003	DX002	DX002	DX002	DE005	DE003	DE003	DE003	DX002	DX002	DE003	DE016	DE003
Start Depth		0	0	0	0	0	0	0	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	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Dichlorprop	ug/kg	2.0 U	1.9 U	2.0 U	1.9 U	1.8 U	1.8 U	1.8 UJ	1.9 U	1.9 U	1.9 U	1.8 U	1.8 U	2.0 U	2.0 U	1.9 U
Dicamba	ug/kg	1.4 U	1.4 U	1.4 U	1.3 U	1.3 U	1.3 U	1.2 J	0.62 J	1.3 U	1.3 U	1.3 U	1.3 U	1.4 U	1.4 U	0.84 J
2,2-Dichlor-Propionic Acid	ug/kg	10 U	10 R	10 U	9.9 U	9.6 U	9.7 U	9.6 R	10 U	9.8 U	9.9 U	9.7 U	9.8 U	10 U	10 U	10 U
Dinitrobutyl Phenol	ug/kg	2.8 R	2.7 R	2.8 R	2.6 R	2.6 R	2.6 R	2.6 R	2.8 R	2.6 R	2.6 R	2.6 R	2.6 R	2.8 R	2.8 R	2.6 J
MCPP	ug/kg	150 J	830	720	280 U	130 J	270 U	960 J	240 J	270 U	350	270 U	270 U	400 U	290 U	280 U
2,4,5-TP	ug/kg	0.20 U	0.19 U	0.20 U	0.19 U	0.18 U	0.18 U	0.18 R	0.19 U	0.19 U	0.19 U	0.18 U	0.18 U	0.20 U	0.20 U	0.19 U
2,4,5-T	ug/kg	0.20 U	0.19 U	0.20 U	0.19 U	0.18 U	0.18 U	0.19 UJ	0.19 U	0.19 U	0.19 U	0.18 U	0.18 U	0.99 U	0.26	0.80 J
MCPA	ug/kg	290 U	280 U	440	530	290 J	470 U	730 UJ	310 U	490	690	270	270 U	290 U	120 J	280 U
2,4-D	ug/kg	4.1 U	4.1 U	4.2 U	4.0 U	3.8 U	3.9 U	4.2 J	4.1 U	3.9 U	4.0 U	3.9 U	3.9 U	4.2 U	4.2 U	4.1 U
2,4 DB	ug/kg	4.0 U	5.8 U	2.1 U	2.6 U	3.8 U	2.9 U	23 J	4.7 U	2.7 U	7.2 U	2.9 U	9.3 U	2.0 U	2.1	14 J
Toxaphene	ug/kg	7.6 U	7.5 U	7.7 U	7.3 U	7.1 U	7.1 U	35 U	7.6 U	7.2 U	7.2 U	7.1 U	7.2 U	76 U	7.7 U	7.5 U
Heptachlor Epoxide	ug/kg	0.19 U	0.19 U	0.19 U	0.18 UJ	0.18 UJ	0.18 UJ	0.89 U	0.19 U	0.18 U	0.18 U	0.18 UJ	0.18 UJ	1.9 U	0.19 U	0.21 U
Endosulfan Sulfate	ug/kg	0.39 U	0.39 U	0.39 U	0.38 UJ	0.36 UJ	0.37 UJ	1.8 U	0.39 U	0.37 U	0.37 U	0.37 UJ	0.37 UJ	3.9 U	0.40 U	0.38 U
Mirex	ug/kg	0.39 U	0.57 U	0.39 U	0.43 UJ	0.36 UJ	0.37 UJ	1.8 U	0.39 U	0.37 U	0.37 U	0.37 UJ	0.37 UJ	3.9 U	0.61 U	0.79 J
Aldrin	ug/kg	0.19 U	0.19 U	0.19 U	0.18 U	0.18 U	0.18 U	0.89 U	0.19 U	0.18 U	0.18 U	0.18 U	0.18 U	1.9 U	0.19 U	0.19 U
Alpha-BHC	ug/kg	0.19 U	0.19 U	0.19 U	0.18 U	0.18 U	0.18 U	0.36 J	0.19 U	0.18 U	0.18 U	0.18 U	0.66 U	1.9 U	0.19 U	0.54 J
Beta-BHC	ug/kg	0.19 U	0.19 U	0.19 U	0.18 U	0.18 U	0.18 U	0.37 J	0.19 U	0.18 U	0.18 U	0.18 U	0.18 U	1.9 U	0.19 U	0.11 J
Delta-BHC	ug/kg	0.19 U	0.19 U	0.060 J	0.18 U	0.18 U	0.18 U	0.89 U	0.19 U	0.18 U	0.18 U	0.18 U	0.18 U	1.9 U	0.19 U	0.25 J
Endosulfan II	ug/kg	0.39 U	0.39 U	0.39 U	0.38 UJ	0.36 UJ	0.37 UJ	1.8 UJ	0.39 U	0.37 U	0.37 U	0.37 UJ	0.37 UJ	3.9 U	0.40 U	0.38 U
4,4'-DDT	ug/kg	4.8 U	3.2 U	2.6 U	0.97 UJ	0.92 UJ	1.0 UJ	24 U	2.6 U	2.1 U	1.9 U	1.3 UJ	0.37 UJ	3.9 U	0.42 U	2.4 U
Endrin Ketone	ug/kg	0.39 U	0.39 U	0.39 U	0.38 UJ	0.36 UJ	0.37 UJ	1.8 U	0.47 U	0.37 U	0.37 U	0.37 UJ	0.37 UJ	3.9 U	0.40 U	0.38 U
Chlordane	ug/kg	3.9 U	3.9 U	3.9 U	3.8 U	3.6 U	3.7 U	18 U	3.3 U	3.7 U	3.8 U	3.7 U	3.7 U	39 U	4.0 U	7.3 U
Gamma-BHC (Lindane)	ug/kg	0.19 U	0.19 U	0.19 U	0.18 U	0.18 U	0.31 U	0.89 U	0.19 U	0.18 U	0.055 J	0.18 U	0.21 U	1.9 U	0.19 U	0.11 J
Dieldrin	ug/kg	0.39 U	0.57 U	0.39 U	0.38 UJ	0.36 UJ	0.37 UJ	1.8 U	0.39 U	0.37 U	0.37 U	0.37 UJ	0.37 UJ	4.8 U	0.40 U	0.51 U
Endrin	ug/kg	0.39 U	0.39 U	0.39 U	0.38 UJ	0.36 UJ	0.37 UJ	1.8 U	0.39 U	0.37 U	0.37 U	0.37 UJ	0.37 UJ	3.9 U	0.40 U	0.38 U
Methoxychlor	ug/kg	1.9 U	1.9 U	1.9 U	1.8 UJ	1.8 UJ	1.8 UJ	8.9 U	1.9 U	1.8 U	1.8 U	1.8 UJ	1.8 UJ	19 U	1.9 U	1.9 U
4,4'-DDD	ug/kg	1.1 U	0.39 U	0.39 U	0.55 U	0.57 U	0.66 U	1.8 U	0.52 U	0.56 U	0.37 U	0.55 U	0.47 U	3.9 U	0.40 U	5.2 U
4,4'-DDE	ug/kg	2.1 U	0.53 U	0.80 U	0.42 U	0.45 U	0.56 U	5.5 U	0.84 U	0.80 U	0.95 U	0.79 U	0.56 U	3.9 U	0.40 U	1.5 U
Endrin Aldehyde	ug/kg	0.62 U	0.42 U	0.81 U	0.51 UJ	0.36 UJ	0.37 UJ	2.6 U	0.46 U	0.37 U	0.60 U	0.37 UJ	0.37 UJ	8.3 U	0.40 U	11 U
Heptachlor	ug/kg	0.19 U	0.19 U	0.19 U	0.18 U	0.18 U	0.18 U	0.89 U	0.19 U	0.18 U	0.18 U	0.18 U	0.18 U	1.9 U	0.19 U	0.19 U
Endosulfan I	ug/kg	0.19 U	0.19 U	0.19 U	0.18 UJ	0.18 UJ	0.18 UJ	0.89 U	0.19 U	0.18 U	0.18 U	0.18 UJ	0.18 UJ	1.9 U	0.19 U	0.19 U

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

Appendix A5
Pesticides - Validated Data
HSA-5C

Sample Name		SL-095-SA5C-SS-0.0-0.5	SL-096-SA5C-SS-0.0-0.5	SL-097-SA5C-SS-0.0-0.5	SL-098-SA5C-SS-0.0-0.5	SL-099-SA5C-SS-0.0-0.5	SL-100-SA5C-SS-0.0-0.5	SL-101-SA5C-SS-0.0-0.5	SL-103-SA5C-SS-0.0-0.5	SL-104-SA5C-SS-0.0-0.5	SL-107-SA5C-SS-0.0-0.5	SL-108-SA5C-SS-0.0-0.5	SL-112-SA5C-SS-0.0-0.5	SL-114-SA5C-SS-0.0-0.5	SL-115-SA5C-SS-0.0-0.5	SL-116-SA5C-SS-0.0-0.5
Sample Date		10/22/2010	10/22/2010	01/04/2011	10/21/2010	10/21/2010	10/21/2010	10/21/2010	10/21/2010	10/21/2010	10/21/2010	10/21/2010	10/20/2010	10/27/2010	10/19/2010	10/19/2010
SDG		DE003	DE003	DE052	DE001	DE001	DE001	DE001	DE001	DE001	DE001	DX002	DE001	DE005	DOE01	DOE01
Start Depth		0	0	0	0	0	0	0	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	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Dichlorprop	ug/kg	2.0 U	1.9 U	10 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	1.8 U	1.9 U	2.0 U	2.3 U	2.1 U
Dicamba	ug/kg	1.4 U	1.3 U	7.1 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.4 U	1.6 U	1.5 U
2,2-Dichlor-Propionic Acid	ug/kg	10 U	9.9 U	53 U	9.9 U	9.9 U	9.9 U	9.9 U	9.8 U	9.9 U	9.8 U	9.7 U	10 U	10 U	12 U	11 U
Dinitrobutyl Phenol	ug/kg	2.8 R	2.6 R	14 R	2.6 R	2.6 R	2.6 R	2.6 R	2.6 R	2.6 R	2.6 R	2.6 R	2.7 R	2.8 R	3.2 U	3.0 U
MCPP	ug/kg	290 U	280 U	1500 U	280 U	270 U	280 U	270 U	270 U	280 U	270 U	270 U	280 U	850	330 U	550 J
2,4,5-TP	ug/kg	0.20 U	0.19 U	1.0 U	0.19 U	0.14 J	0.19 U	0.19 U	0.19 U	0.19 U	0.18 U	0.18 U	0.19 U	0.20 U	0.23 U	0.21 UJ
2,4,5-T	ug/kg	0.20 U	0.19 U	1.0 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.18 U	0.35	0.19 U	0.58	0.23 U	0.11
MCPA	ug/kg	290 U	280 U	1500 U	280 U	270 U	300	270 U	270 U	280 U	270 U	270 U	280 U	490	360	310 U
2,4-D	ug/kg	4.2 U	4.0 U	21 U	4.0 U	3.9 U	4.0 U	4.0 U	3.9 U	4.0 U	3.9 U	3.9 U	4.0 U	2.1 U	4.8 U	4.5 U
2,4 DB	ug/kg	2.0 U	4.1 U	10 U	1.9 U	8.8 U	13 U	14 U	11 U	17	2.9 U	3.2 U	6.3 U	6.3 U	4.3	4.7
Toxaphene	ug/kg	7.7 U	7.3 U	7.8 U	7.3 U	7.2 U	7.3 U	7.3 U	7.2 U	7.3 U	7.2 U	7.1 U	7.4 U	38 U	8.8 U	8.3 U
Heptachlor Epoxide	ug/kg	0.19 U	0.18 U	0.20 U	0.18 U	0.18 U	0.70 U	0.18 U	0.33 U	0.18 U	0.18 U	0.18 UJ	0.19 U	0.97 U	0.22 U	0.21 U
Endosulfan Sulfate	ug/kg	0.40 U	0.37 U	0.12 J	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.38 U	0.37 U	0.37 UJ	0.38 U	2.0 U	0.45 U	0.73 U
Mirex	ug/kg	0.40 U	0.66 U	0.40 U	0.37 U	0.37 U	0.42 U	0.37 U	0.37 U	0.38 U	0.37 U	0.56 UJ	0.38 U	6.2 U	0.45 U	1.6 U
Aldrin	ug/kg	0.19 U	0.18 U	0.20 U	0.18 U	0.18 U	0.26 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.19 U	0.99 U	0.22 U	0.21 U
Alpha-BHC	ug/kg	0.19 U	0.18 U	0.20 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.19 U	1.4 U	0.22 U	0.21 U
Beta-BHC	ug/kg	0.19 U	0.18 U	0.20 U	0.18 U	0.18 U	0.12 J	0.15 J	0.18 U	0.10 J	0.18 U	0.18 U	0.12 J	0.97 U	0.13	0.21 U
Delta-BHC	ug/kg	0.19 U	0.18 U	0.20 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.15 J	0.19 U	0.97 U	0.084 J	0.066
Endosulfan II	ug/kg	0.40 U	0.37 U	0.40 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.38 U	0.37 U	0.37 UJ	0.38 U	2.0 UJ	0.45 U	0.43 U
4,4'-DDT	ug/kg	0.40 U	1.4 U	0.40 U	1.7 U	1.9 U	3.0 U	1.5 U	3.0 U	4.6 U	1.6 U	1.7 UJ	2.0 U	15 U	1.3 U	1.5 U
Endrin Ketone	ug/kg	0.40 U	0.37 U	0.40 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.38 U	0.37 U	0.37 UJ	0.38 U	2.0 U	0.45 U	0.43 U
Chlordane	ug/kg	4.0 U	3.7 U	4.0 U	3.7 U	3.7 U	6.3 U	3.7 U	6.3 U	3.8 U	4.7 U	5.9 U	3.8 U	20 U	4.5 U	12 U
Gamma-BHC (Lindane)	ug/kg	0.19 U	0.18 U	0.20 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.058 J	0.18 U	0.24 J	0.19 U	0.97 U	0.22 U	0.21 UJ
Dieldrin	ug/kg	0.40 U	0.37 U	0.10 J	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.51 U	0.50 U	0.37 UJ	0.38 U	4.3 U	0.45 U	0.43 U
Endrin	ug/kg	0.40 U	0.37 U	0.40 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.38 U	0.37 U	1.3 UJ	0.38 U	2.0 U	0.45 U	0.43 U
Methoxychlor	ug/kg	1.9 U	1.8 U	2.0 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	3.4 UJ	1.9 U	19 U	2.2 U	2.1 U
4,4'-DDD	ug/kg	0.40 U	0.43 U	0.40 U	0.37 U	0.37 U	0.63 U	0.37 U	0.46 U	0.56 U	0.37 U	1.2 U	0.38 U	2.2 U	0.45 U	0.43 U
4,4'-DDE	ug/kg	0.40 U	1.1 U	0.40 U	0.51 U	0.53 U	1.9 U	0.93 U	1.5 U	3.1 U	0.37 U	0.91 U	1.9 U	3.5 U	0.45 U	1.1 U
Endrin Aldehyde	ug/kg	0.40 U	1.3 U	0.40 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.38 U	0.37 U	1.7 UJ	0.38 U	16 U	0.45 U	0.51 U
Heptachlor	ug/kg	0.19 U	0.18 U	0.29	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	1.1 U	0.19 U	0.97 U	0.22 U	0.35
Endosulfan I	ug/kg	0.19 U	0.18 U	0.20 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 UJ	0.19 U	0.97 U	0.22 U	0.21 U

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

Appendix A5
Pesticides - Validated Data
HSA-5C

Sample Name		SL-117-SA5C-SS-0.0-0.5	SL-120-SA5C-SS-0.0-0.5	SL-121-SA5C-SS-0.0-0.5	SL-122-SA5C-SS-0.0-0.5	SL-123-SA5C-SS-0.0-0.5	SL-124-SA5C-SS-0.0-0.5	SL-125-SA5C-SS-0.0-0.5	SL-127-SA5C-SS-0.0-0.5	SL-128-SA5C-SS-0.0-0.5	SL-129-SA5C-SS-0.0-0.5	SL-130-SA5C-SS-0.0-0.5	SL-132-SA5C-SS-0.0-0.5	SL-133-SA5C-SS-0.0-0.5	SL-134-SA5C-SS-0.0-0.5	SL-135-SA5C-SS-0.0-0.5
Sample Date		10/19/2010	10/19/2010	10/19/2010	10/19/2010	10/19/2010	10/20/2010	10/18/2010	10/18/2010	10/18/2010	10/18/2010	10/18/2010	10/18/2010	10/18/2010	10/19/2010	10/19/2010
SDG		DOE01	DOE01	DOE01	DOE01	DOE01	DE001	DOE01	DOE01	DOE01	DOE01	DOE01	DOE01	DOE01	DOE01	DOE01
Start Depth		0	0	0	0	0	0	0	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	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Dichlorprop	ug/kg	2.1 U	1.8 R	2.0 UJ	1.9 U	2.1 U	1.9 U	1.8 U	1.9 U	1.8 U	1.8 U	1.8 U	2.1 U	1.8 U	1.8 U	1.9 UJ
Dicamba	ug/kg	1.5 U	1.3 U	1.4 U	1.3 UJ	1.5 U	1.3 U	1.3 U	1.4 U	1.3 U	1.3 U	1.3 U	1.4 U	1.3 U	1.3 U	1.4 UJ
2,2-Dichlor-Propionic Acid	ug/kg	11 U	9.6 U	10 U	9.9 U	11 U	10 U	9.5 UJ	10 U	9.6 U	9.8 UJ	9.6 U	11 U	9.6 U	9.7 U	10 U
Dinitrobutyl Phenol	ug/kg	3.0 U	2.6 U	2.8 U	2.6 U	3.0 U	2.7 R	0.90	2.7 U	2.6 U	2.6 U	2.6 U	2.9 U	2.6 U	2.6 U	2.7 U
MCPP	ug/kg	320 U	270 U	290 U	280 U	310 U	280 U	260 U	290 U	270 U	270 U	270 U	170	270 U	270 U	280 UJ
2,4,5-TP	ug/kg	0.21 U	0.18 U	0.20 U	0.19 U	0.21 U	0.19 U	0.18 UJ	0.19 U	0.38	0.18 U	0.18 U	0.21 U	0.18 U	0.18 UJ	0.19 U
2,4,5-T	ug/kg	0.32	0.18 U	0.20 U	0.19 UJ	0.21 U	0.19 U	0.18 U	0.19 U	0.18 U	0.11 J	0.18 U	0.21 U	0.18 U	0.18 U	0.19 U
MCPA	ug/kg	190	270 U	580	280 UJ	310 U	650	1100 J	720	270 U	1000	270 U	300 U	530	270 U	390
2,4-D	ug/kg	4.5 U	3.8 U	4.2 U	4.0 U	4.5 U	4.0 U	3.8 U	4.1 U	3.9 U	3.9 U	3.8 U	4.3 U	3.8 U	3.9 R	4.1 U
2,4 DB	ug/kg	2.1 U	1.8 U	5.6 U	6.2	5.7	6.0 U	7.4	4.4 U	1.8 U	9.2 U	1.8 U	3.4 U	1.8 U	1.8 U	7.8
Toxaphene	ug/kg	42 U	7.0 U	7.7 UJ	7.3 U	8.3 U	37 U	6.9 U	7.5 U	7.1 R	7.2 U	7.0 U	8.0 U	7.0 U	7.1 UJ	7.5 UJ
Heptachlor Epoxide	ug/kg	1.1	0.18 U	0.19 U	0.50	0.21 U	4.4 U	0.17 U	0.19 U	0.36 UJ	0.26 U	0.49 U	0.20 U	0.18 U	0.27 UJ	0.19 U
Endosulfan Sulfate	ug/kg	2.1 U	0.36 U	0.39 U	0.38 U	0.43 U	1.9 U	0.36 U	0.39 U	0.36 U	0.37 U	0.36 U	0.41 U	0.36 U	0.37 UJ	0.39 UJ
Mirex	ug/kg	2.1 U	0.36 UJ	0.39 U	0.38 UJ	0.44 U	1.9 U	0.62 U	0.39 U	0.36 U	0.37 U	0.36 U	0.41 U	0.36 U	0.37 UJ	0.39 U
Aldrin	ug/kg	0.21 U	0.18 UJ	0.19 U	0.18 UJ	0.21 U	0.93 U	0.17 U	0.19 U	0.18 U	0.18 U	0.18 U	0.10	0.18 U	0.18 U	0.19 U
Alpha-BHC	ug/kg	0.21 U	0.18 UJ	0.19 U	0.18 UJ	0.21 U	0.93 U	0.17 U	0.19 U	0.18 UJ	0.18 U	0.18 U	0.20 U	0.18 U	0.18 U	0.19 U
Beta-BHC	ug/kg	0.28	0.18 U	0.19 U	0.066 J	0.21 U	0.93 U	0.065	0.19 U	0.66	0.52	0.30	0.20 U	0.19	0.13 J	0.15
Delta-BHC	ug/kg	0.21 U	0.12	0.19 UJ	0.18 UJ	0.074	0.93 U	0.17 U	0.19 UJ	0.25	0.086	0.083	0.20 U	0.10 J	0.10	0.13
Endosulfan II	ug/kg	2.1 R	0.36 U	0.39 UJ	0.38 UJ	0.58 U	4.6 U	0.36 U	0.39 UJ	0.44 U	0.37 U	0.36 U	0.41 U	0.38 U	0.37 U	0.39 U
4,4'-DDT	ug/kg	5.4 U	2.4 U	1.3 UJ	1.6 UJ	1.3 U	41 U	2.4 U	0.39 U	5.5 U	3.1 U	0.36 U	0.41 U	3.7 U	3.7 UJ	4.5 U
Endrin Ketone	ug/kg	3.8	0.36 U	0.39 UJ	0.38 UJ	0.43 U	1.9 U	0.36 U	0.39 U	0.36 U	0.37 U	0.36 U	0.41 U	0.36 U	0.37 UJ	0.39 U
Chlordane	ug/kg	9.7 U	6.9 U	3.9 UJ	3.8 UJ	4.3 U	38 U	4.0 U	3.9 U	13 U	13 U	4.5 U	4.8 U	7.0 R	6.5 U	3.9 U
Gamma-BHC (Lindane)	ug/kg	0.091	0.18 U	0.19 UJ	0.18 UJ	0.21 U	0.93 U	0.17 U	0.19 UJ	0.18 U	0.18 U	0.18 U	0.20 U	0.18 U	0.18 U	0.050 J
Dieldrin	ug/kg	0.43 U	0.36 U	0.39 UJ	0.38 UJ	0.43 U	15 U	0.36 U	0.39 U	0.36 U	0.37 U	0.36 U	0.41 U	0.36 U	0.37 U	0.39 U
Endrin	ug/kg	2.1 U	0.36 U	0.39 UJ	0.38 UJ	0.43 U	1.9 U	0.36 U	0.39 U	0.48 U	0.46 U	0.56 U	0.41 U	0.45 U	0.50 U	0.39 U
Methoxychlor	ug/kg	10 U	1.8 U	1.9 UJ	1.8 UJ	2.1 U	9.3 U	1.7 U	1.9 U	1.8 U	1.8 U	1.8 U	2.0 U	1.8 U	1.8 U	1.9 U
4,4'-DDD	ug/kg	2.1 U	0.36 U	0.39 UJ	0.38 UJ	0.43 U	1.9 U	0.98 U	0.39 U	0.36 U	0.37 U	0.36 UJ	0.41 U	0.36 U	0.37 U	0.39 U
4,4'-DDE	ug/kg	0.91 U	1.2 U	0.39 UJ	1.2 UJ	0.53 U	23 U	0.60 U	0.39 U	1.8 U	0.84 U	0.60 U	0.46 U	0.89 U	0.73 U	0.77 U
Endrin Aldehyde	ug/kg	2.1 U	0.39 UJ	0.39 UJ	0.44 UJ	0.43 U	3.8 U	0.36 U	0.39 U	0.84 U	0.56 U	0.36 U	0.41 U	0.68 U	0.56 U	0.49 UJ
Heptachlor	ug/kg	0.15	0.18 UJ	0.19 UJ	0.18 UJ	0.21 U	0.93 U	0.17 U	0.19 U	0.18 U	0.18 U	0.18 U	0.20 U	0.18 U	0.18 U	0.19 UJ
Endosulfan I	ug/kg	0.21 U	0.18 U	0.19 UJ	0.18 UJ	0.21 U	0.93 U	0.17 U	0.19 U	0.18 U	0.18 U	0.18 U	0.20 U	0.18 U	0.18 UJ	0.19 U

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

Appendix A5
Pesticides - Validated Data
HSA-5C

Sample Name		SL-136-SA5C-SS-0.0-0.5	SL-137-SA5C-SS-0.0-0.5	SL-141-SA5C-SS-0.0-0.5	SL-142-SA5C-SS-0.0-0.5	SL-143-SA5C-SS-0.0-0.5	SL-144-SA5C-SS-0.0-0.5	SL-145-SA5C-SS-0.0-0.5
Sample Date		10/20/2010	10/20/2010	10/20/2010	10/27/2010	10/20/2010	10/20/2010	10/20/2010
SDG		DE001	DE001	DE001	DE005	DE001	DE001	DE001
Start Depth		0	0	0	0	0	0	0
End Depth		0.5	0.5	0.5	0.5	0.5	0.5	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result
Dichlorprop	ug/kg	10 U	1.9 U	1.9 U	1.9 U	1.9 U	2.0 U	2.2 U
Dicamba	ug/kg	7.1 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.6 U
2,2-Dichlor-Propionic Acid	ug/kg	53 U	10 U	10 U	10 U	10 U	11 U	12 U
Dinitrobutyl Phenol	ug/kg	14 R	2.7 R	2.7 R	2.7 R	2.8 R	2.8 R	3.1 R
MCPP	ug/kg	1500 U	280 U	290 U	170 J	290 U	290 U	320 U
2,4,5-TP	ug/kg	1.0 UJ	0.19 U	0.19 U	0.19 U	0.19 U	0.20 U	0.22 U
2,4,5-T	ug/kg	1.0 U	0.19 U	0.19 U	0.19 U	0.19 U	0.20 U	0.22 U
MCPA	ug/kg	1500 UJ	390	590	490	400	210 J	320 U
2,4-D	ug/kg	21 U	4.1 U	4.1 U	2.2 J	4.1 U	4.2 U	4.7 U
2,4 DB	ug/kg	10 UJ	4.5 U	11 U	1.9 U	3.1 U	4.5	2.4
Toxaphene	ug/kg	7.8 U	7.5 U	7.6 R	7.5 U	7.6 R	7.8 U	8.5 U
Heptachlor Epoxide	ug/kg	0.20 U	0.82 U	0.19 R	0.19 U	0.19 R	0.20 U	0.22 U
Endosulfan Sulfate	ug/kg	0.40 U	0.39 U	0.39 R	0.39 U	0.63 R	1.6 U	0.44 U
Mirex	ug/kg	0.48 U	0.39 U	0.39 R	0.58 U	0.44 R	0.42 U	0.44 U
Aldrin	ug/kg	0.20 U	0.19 U	0.19 R	0.19 U	0.19 R	0.20 U	0.22 U
Alpha-BHC	ug/kg	0.20 U	0.19 U	0.19 R	0.19 U	0.19 R	0.20 U	0.22 U
Beta-BHC	ug/kg	0.086 J	0.19 U	0.19 R	0.10 J	0.19 R	0.20 U	0.22 U
Delta-BHC	ug/kg	0.063 J	0.049 J	0.19 R	0.19 U	0.19 R	0.061 J	0.22 U
Endosulfan II	ug/kg	0.40 U	0.74 U	0.39 R	0.39 UJ	0.39 R	0.59 U	0.44 U
4,4'-DDT	ug/kg	0.74 U	16 U	0.68 R	1.6 U	0.39 R	1.5 U	1.9 U
Endrin Ketone	ug/kg	1.9 U	0.39 U	0.39 R	0.39 R	0.39 R	0.40 U	0.44 U
Chlordane	ug/kg	4.0 U	10 U	3.9 R	7.3 U	3.9 R	6.2 U	4.4 U
Gamma-BHC (Lindane)	ug/kg	0.20 U	0.069 J	0.19 R	0.19 U	0.19 R	0.20 U	0.22 U
Dieldrin	ug/kg	0.48 U	5.2 U	0.39 R	0.58 U	0.39 R	0.40 U	0.44 U
Endrin	ug/kg	0.40 U	0.39 U	0.39 R	0.39 U	0.39 R	0.40 U	0.44 U
Methoxychlor	ug/kg	2.0 U	1.9 U	1.9 R	1.9 U	1.9 R	2.0 U	2.2 U
4,4'-DDD	ug/kg	1.1 U	0.39 U	0.39 R	0.39 U	0.39 R	1.5 U	0.44 U
4,4'-DDE	ug/kg	0.40 U	3.9 U	0.70 R	0.40 U	0.39 R	0.49 U	0.44 U
Endrin Aldehyde	ug/kg	0.40 U	0.90 U	0.39 R	0.39 U	0.39 R	0.52 U	0.44 U
Heptachlor	ug/kg	0.20 U	0.19 U	0.19 R	0.19 U	0.19 R	0.39 J	0.22 U
Endosulfan I	ug/kg	0.20 U	0.19 U	0.19 R	0.19 U	0.19 R	0.20 U	0.22 U

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

Appendix A6
Semivolatile Organics - Validated Data
HSA-5C

Sample Name		SL-001-SA5C-SS-0.0-0.5	SL-001-SA5C-SB-4.0-5.0	SL-001-SA5C-SB-9.0-10.0	SL-002-SA5C-SS-0.0-0.5	SL-002-SA5C-SB-4.0-5.0	SL-002-SA5C-SB-9.0-10.0	SL-003-SA5C-SB-4.0-5.0	SL-004-SA5C-SS-0.0-0.5	SL-004-SA5C-SB-4.0-5.0	SL-004-SA5C-SB-9.0-10.0	SL-005-SA5C-SB-4.0-5.0	SL-005-SA5C-SB-9.0-10.0	SL-006-SA5C-SB-4.0-5.0	SL-006-SA5C-SB-9.0-10.0
Sample Date		10/26/2010	12/13/2010	12/13/2010	10/26/2010	12/14/2010	12/14/2010	12/13/2010	10/26/2010	12/14/2010	12/14/2010	12/10/2010	12/10/2010	12/13/2010	12/13/2010
SDG		DE004	DE037	DE037	DE004	DE039	DE039	DE037	DE004	DE039	DE039	DE035	DE035	DE037	DE037
Start Depth		0	4	9	0	4	9	4	0	4	9	4	9	4	9
End Depth		0.5	5	10	0.5	5	10	5	0.5	5	10	5	10	5	10
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
N-Nitrosodimethylamine (1625C)	ng/kg	--	97.1	83.9	--	112	161	93.9	--	66.2	80.4	99.5	72.8 J	37.6 UJ	78.4
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.8 U	1.8 U	2.0 U	1.9 U	1.8 U	2.0 U	1.8 U	19 U	2.0 U	2.0 U	1.9 U	1.8 U	1.9 U	1.8 U
2,4-Dinitrotoluene	ug/kg	180 U	180 U	200 U	190 U	180 U	200 U	180 U	190 U	200 U	200 U	190 U	180 U	190 U	180 U
Nitrobenzene	ug/kg	180 U	180 U	200 U	190 U	180 U	200 U	180 U	190 U	200 U	200 U	190 U	180 U	190 U	180 U
1,4-Dichlorobenzene	ug/kg	180 U	180 U	200 U	190 U	180 U	200 U	180 U	190 U	200 U	200 U	190 U	180 U	190 U	180 U
1,2,4-Trichlorobenzene	ug/kg	180 U	180 U	200 U	190 U	180 U	200 U	180 U	190 U	200 U	200 U	190 U	180 U	190 U	180 U
1,3-Dichlorobenzene	ug/kg	180 U	180 U	200 U	190 U	180 U	200 U	180 U	190 U	200 U	200 U	190 U	180 U	190 U	180 U
Hexachlorobutadiene	ug/kg	180 U	180 U	200 U	190 U	180 U	200 U	180 U	190 U	200 U	200 U	190 U	180 U	190 U	180 U
1,2-Dichlorobenzene	ug/kg	180 U	180 U	200 U	190 U	180 U	200 U	180 U	190 U	200 U	200 U	190 U	180 U	190 U	180 U
4-Nitroaniline	ug/kg	180 U	180 U	200 U	190 U	180 U	200 U	180 U	190 U	200 U	200 U	190 U	180 U	190 U	180 U
4-Nitrophenol	ug/kg	540 U	540 U	600 U	570 U	530 U	600 U	540 U	560 U	600 U	600 U	580 U	550 U	560 U	540 U
4-Bromophenyl Phenyl Ether	ug/kg	180 U	180 U	200 U	190 U	180 U	200 U	180 U	190 U	200 U	200 U	190 U	180 U	190 U	180 U
2,4-Dimethylphenol	ug/kg	180 U	180 U	200 U	190 U	180 U	200 U	180 U	190 U	200 U	200 U	190 U	180 U	190 U	180 U
4-Methylphenol	ug/kg	180 U	180 U	200 U	190 U	180 U	200 U	180 U	190 U	200 U	200 U	190 U	180 U	190 U	180 U
4-Chloroaniline	ug/kg	180 U	180 U	200 U	190 U	180 U	200 U	180 U	190 U	200 U	200 U	190 U	180 U	190 U	180 U
3,5-Dimethylphenol	ug/kg	180 U	180 U	200 U	190 U	180 U	200 U	180 U	190 U	200 U	200 U	190 U	180 U	190 U	180 U
Phenol	ug/kg	180 U	180 U	200 U	190 U	180 U	200 U	180 U	190 U	200 U	200 U	190 U	180 U	190 U	180 U
Bis(2-Chloroethyl) ether	ug/kg	180 U	180 U	200 U	190 U	180 U	200 U	180 U	190 U	200 U	200 U	190 U	180 U	190 U	180 U
Bis(2-Chloroethoxy) methane	ug/kg	180 U	180 U	200 U	190 U	180 U	200 U	180 U	190 U	200 U	200 U	190 U	180 U	190 U	180 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	--	360 U	400 U	--	--	--	360 U	24 J	--	--	23 J	370 U	--	360 U
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	36	--	--	110	19 U	22 U	--	--	7.3 J	12 J	--	--	20 U	--
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	--	--	--	--	--	190 U	--	--	--	--	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	16 J	19 U	22 U	20 U	19 U	22 U	19 U	--	21 U	22 U	21 U	20 U	20 U	20 U
Hexachlorobenzene	ug/kg	180 U	180 U	200 U	190 U	180 U	200 U	180 U	190 U	200 U	200 U	190 U	180 U	190 U	180 U
Anthracene	ug/kg	1.8 U	1.8 U	2.0 U	1.9 U	1.8 U	2.0 U	1.8 U	19 U	2.0 U	2.0 U	1.9 U	1.8 U	1.9 U	1.8 U
2,4-Dichlorophenol	ug/kg	180 U	180 U	200 U	190 U	180 U	200 U	180 U	190 U	200 U	200 U	190 U	180 U	190 U	180 U
1,2-Diphenylhydrazine	ug/kg	180 U	180 U	200 U	190 U	180 U	200 U	180 U	190 U	200 U	200 U	190 U	180 U	190 U	180 U
Pyrene (8270C)	ug/kg	19 J	--	--	--	--	--	--	--	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	--	1.8 U	2.0 U	0.91 J	1.8 U	2.0 U	2.4	17 J	2.0 U	2.0 U	1.9 U	1.7 J	1.9 U	1.8 U
Dimethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	190 U	--	--	--	--	--	--
Dimethylphthalate (8270C SIM)	ug/kg	20 U	19 U	22 U	20 U	19 U	22 U	19 U	--	21 U	22 U	21 U	20 U	20 U	20 U
Dibenzofuran	ug/kg	180 U	180 U	200 U	190 U	180 U	200 U	180 U	190 U	200 U	200 U	190 U	180 U	190 U	180 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	1.0 J	1.8 U	2.0 U	1.9 U	1.8 U	2.0 U	0.90 J	19 U	2.0 U	2.0 U	1.9 U	1.8 U	1.9 U	1.8 U
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	0.78 J	1.8 U	2.0 U	1.9 U	1.8 UJ	2.0 UJ	1.8 U	19 U	2.0 UJ	2.0 UJ	1.9 U	1.8 U	1.9 U	1.8 U
Benzo(b)fluoranthene (8270C)	ug/kg	18 J	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	--	1.8 U	2.0 U	1.9 U	1.8 U	2.0 U	2.9	38	2.0 U	2.0 U	1.9 U	2.2	1.9 U	1.8 U
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	2.3	1.8 U	2.0 U	1.0 J	1.8 UJ	2.0 UJ	1.7 J	17 J	2.0 UJ	2.0 UJ	1.9 U	1.8	1.9 U	1.8 U
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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

Appendix A6
Semivolatile Organics - Validated Data
HSA-5C

Sample Name		SL-001-SA5C-SS-0.0-0.5	SL-001-SA5C-SB-4.0-5.0	SL-001-SA5C-SB-9.0-10.0	SL-002-SA5C-SS-0.0-0.5	SL-002-SA5C-SB-4.0-5.0	SL-002-SA5C-SB-9.0-10.0	SL-003-SA5C-SB-4.0-5.0	SL-004-SA5C-SS-0.0-0.5	SL-004-SA5C-SB-4.0-5.0	SL-004-SA5C-SB-9.0-10.0	SL-005-SA5C-SB-4.0-5.0	SL-005-SA5C-SB-9.0-10.0	SL-006-SA5C-SB-4.0-5.0	SL-006-SA5C-SB-9.0-10.0
Sample Date		10/26/2010	12/13/2010	12/13/2010	10/26/2010	12/14/2010	12/14/2010	12/13/2010	10/26/2010	12/14/2010	12/14/2010	12/10/2010	12/10/2010	12/13/2010	12/13/2010
SDG		DE004	DE037	DE037	DE004	DE039	DE039	DE037	DE004	DE039	DE039	DE035	DE035	DE037	DE037
Start Depth		0	4	9	0	4	9	4	0	4	9	4	9	4	9
End Depth		0.5	5	10	0.5	5	10	5	0.5	5	10	5	10	5	10
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Benzo(k)fluoranthene (8270C SIM)	ug/kg	1.7 J	1.8 U	2.0 U	2.8	1.8 U	2.0 U	0.76 J	9.8 J	2.0 U	2.0 U	1.9 U	1.8 U	1.9 U	1.8 U
Acenaphthylene	ug/kg	1.8 U	1.8 U	2.0 U	1.9 U	1.8 U	2.0 U	1.8 U	19 U	2.0 U	2.0 U	1.9 U	1.8 U	1.9 U	1.8 U
Chrysene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	2.3	1.8 U	2.0 U	0.88 J	1.8 UJ	0.41 J	4.0	25	0.50 J	0.53 J	1.9 U	1.7 J	0.46 J	1.8 U
bis(2-Chloroisopropyl) ether	ug/kg	180 U	180 U	200 U	190 U	180 U	200 U	180 U	190 U	200 U	200 U	190 U	180 U	190 U	180 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	2.1	1.8 U	2.0 U	1.9 U	1.8 U	2.0 U	1.8	16 J	2.0 U	2.0 U	1.9 U	1.0 J	1.9 U	1.8 U
2,4-Dinitrophenol	ug/kg	2200 U	2100 U	2400 U	2300 U	2100 U	2400 U	2200 U	2200 U	2400 U	2400 U	2300 U	2200 U	2300 U	2200 U
4,6-Dinitro-2-Methylphenol	ug/kg	540 U	540 U	600 U	570 U	530 U	600 U	540 U	560 U	600 U	600 U	580 U	550 U	560 U	540 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	1.8 U	1.8 U	2.0 U	1.9 U	1.8 UJ	2.0 UJ	1.8 U	19 U	2.0 UJ	2.0 UJ	1.9 U	1.8 U	1.9 U	1.8 U
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	1.3 J	1.8 U	2.0 U	1.9 U	1.8 U	2.0 U	1.3 J	12 J	2.0 U	2.0 U	1.9 U	1.0 J	1.9 U	1.8 U
4-Chloro-3-Methylphenol	ug/kg	180 U	180 U	200 U	190 U	180 U	200 U	180 U	190 U	200 U	200 U	190 U	180 U	190 U	180 U
N-Nitroso-Di-N-Propylamine	ug/kg	180 U	180 U	200 U	190 U	180 U	200 U	180 U	190 U	200 U	200 U	190 U	180 U	190 U	180 U
Aniline	ug/kg	540 U	540 U	600 U	570 U	530 U	600 U	540 U	560 U	600 U	600 U	580 U	550 U	560 U	540 U
Benzoic Acid	ug/kg	540 U	540 U	600 U	570 U	530 U	600 U	540 U	560 U	600 U	600 U	580 U	550 U	560 U	540 U
Hexachloroethane	ug/kg	180 U	180 U	200 U	190 U	180 U	200 U	180 U	190 U	200 U	200 U	190 U	180 U	190 U	180 U
4-Chlorophenyl Phenylether	ug/kg	180 U	180 U	200 U	190 U	180 U	200 U	180 U	190 U	200 U	200 U	190 U	180 U	190 UJ	180 U
Hexachlorocyclopentadiene	ug/kg	540 U	540 U	600 U	570 U	530 U	600 U	540 U	560 U	600 U	600 U	580 U	550 U	560 U	540 U
Isophorone	ug/kg	180 U	180 U	200 U	190 U	180 U	200 U	180 U	190 U	200 U	200 U	190 U	180 U	190 U	180 U
Acenaphthene	ug/kg	1.8 U	1.8 U	2.0 U	1.9 U	1.8 U	2.0 U	1.8 U	19 U	2.0 U	2.0 U	1.9 U	1.8 U	1.9 U	1.8 U
Diethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	190 U	--	--	--	--	--	--
Diethylphthalate (8270C SIM)	ug/kg	20 U	19 U	22 U	20 U	19 UJ	22 UJ	19 U	--	21 UJ	22 UJ	21 U	20 U	20 U	20 U
Di-n-Butylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	190 U	--	--	--	--	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	20 U	19 U	22 U	20 U	19 UJ	22 UJ	19 U	--	21 UJ	22 UJ	21 U	20 U	20 U	20 U
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	1.8 U	1.8 U	2.0 U	1.9 U	1.8 U	2.0 U	1.8 U	19 U	2.0 U	2.0 U	1.9 U	1.8 U	1.9 U	1.8 U
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	190 U	--	--	--	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	20 U	19 U	22 U	20 U	19 U	22 U	19 U	--	21 U	22 U	21 U	20 U	20 U	20 U
N-Nitrosodiphenylamine	ug/kg	180 U	180 U	200 U	190 U	180 U	200 U	180 U	190 U	200 U	200 U	190 U	180 U	190 U	180 U
Fluorene	ug/kg	1.8 U	1.8 U	2.0 U	1.9 U	1.8 UJ	2.0 UJ	1.8 U	19 U	2.0 UJ	2.0 UJ	1.9 U	1.8 U	1.9 U	1.8 U
Carbazole	ug/kg	180 U	180 U	200 U	190 U	180 U	200 U	180 U	190 U	200 U	200 U	190 U	180 U	190 U	180 U
Pentachlorophenol	ug/kg	540 U	540 U	600 U	570 U	530 U	600 U	540 U	560 U	600 U	600 U	580 U	550 U	560 U	540 U
2,4,6-Trichlorophenol	ug/kg	180 U	180 U	200 U	190 U	180 U	200 U	180 U	190 U	200 U	200 U	190 U	180 U	190 U	180 U
2-Nitroaniline	ug/kg	180 U	180 U	200 U	190 U	180 U	200 U	180 U	190 U	200 U	200 U	190 U	180 U	190 U	180 U
2-Nitrophenol	ug/kg	180 U	180 U	200 U	190 U	180 U	200 U	180 U	190 U	200 U	200 U	190 U	180 U	190 U	180 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	1.8 U	1.8 U	2.0 U	1.9 U	1.8 U	2.0 U	1.8 U	19 U	2.0 U	2.0 U	1.9 U	1.8 U	1.9 U	1.8 U
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene (8270C SIM)	ug/kg	1.8 U	1.8 U	2.0 U	1.9 U	1.8 U	2.0 U	1.8 U	19 U	2.0 U	2.0 U	1.9 U	1.8 U	1.9 U	1.8 U

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Appendix A6
Semivolatile Organics - Validated Data
HSA-5C

Sample Name		SL-001-SA5C-SS-0.0-0.5	SL-001-SA5C-SB-4.0-5.0	SL-001-SA5C-SB-9.0-10.0	SL-002-SA5C-SS-0.0-0.5	SL-002-SA5C-SB-4.0-5.0	SL-002-SA5C-SB-9.0-10.0	SL-003-SA5C-SB-4.0-5.0	SL-004-SA5C-SS-0.0-0.5	SL-004-SA5C-SB-4.0-5.0	SL-004-SA5C-SB-9.0-10.0	SL-005-SA5C-SB-4.0-5.0	SL-005-SA5C-SB-9.0-10.0	SL-006-SA5C-SB-4.0-5.0	SL-006-SA5C-SB-9.0-10.0
Sample Date		10/26/2010	12/13/2010	12/13/2010	10/26/2010	12/14/2010	12/14/2010	12/13/2010	10/26/2010	12/14/2010	12/14/2010	12/10/2010	12/10/2010	12/13/2010	12/13/2010
SDG		DE004	DE037	DE037	DE004	DE039	DE039	DE037	DE004	DE039	DE039	DE035	DE035	DE037	DE037
Start Depth		0	4	9	0	4	9	4	0	4	9	4	9	4	9
End Depth		0.5	5	10	0.5	5	10	5	0.5	5	10	5	10	5	10
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	1.8 U	1.8 U	2.0 U	1.9 U	1.8 U	2.0 U	1.8 U	19 U	2.0 U	2.0 U	1.9 U	1.8 U	1.9 U	1.8 U
2-Chloronaphthalene	ug/kg	180 U	180 U	200 U	190 U	180 U	200 U	180 U	190 U	200 U	200 U	190 U	180 U	190 U	180 U
3,3`-Dichlorobenzidine	ug/kg	360 U	360 U	400 U	380 U	360 U	400 U	360 U	370 U	400 U	400 U	380 U	370 U	380 U	360 U
Benzidine	ug/kg	3600 U	3600 U	4000 U	3800 U	3600 UJ	4000 U	3600 U	3700 U	4000 U	4000 U	3800 U	3700 U	3800 UJ	3600 U
2-Methylphenol	ug/kg	180 U	180 U	200 U	190 U	180 U	200 U	180 U	190 U	200 U	200 U	190 U	180 U	190 U	180 U
2-Chlorophenol	ug/kg	180 U	180 U	200 U	190 U	180 U	200 U	180 U	190 U	200 U	200 U	190 U	180 U	190 U	180 U
2,4,5-Trichlorophenol	ug/kg	180 U	180 U	200 U	190 U	180 U	200 U	180 U	190 U	200 U	200 U	190 U	180 U	190 U	180 U
3-Nitroaniline	ug/kg	180 U	180 U	200 U	190 U	180 U	200 U	180 U	190 U	200 U	200 U	190 U	180 U	190 U	180 U
Benzyl Alcohol	ug/kg	540 U	540 U	600 U	570 U	530 U	600 U	540 U	560 U	600 U	600 U	580 U	550 U	560 U	540 U
2,6-Dinitrotoluene	ug/kg	180 U	180 U	200 U	190 U	180 U	200 U	180 U	190 U	200 U	200 U	190 U	180 U	190 U	180 U

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Appendix A6
Semivolatile Organics - Validated Data
HSA-5C

Sample Name		SL-007-SA5C-SB-4.0-5.0	SL-007-SA5C-SB-9.0-10.0	SL-008-SA5C-SS-0.0-0.5	SL-008-SA5C-SB-4.0-5.0	SL-008-SA5C-SB-8.0-9.0	SL-009-SA5C-SB-4.0-5.0	SL-009-SA5C-SB-9.0-10.0	SL-010-SA5C-SB-4.0-5.0	SL-010-SA5C-SB-9.0-10.0	SL-011-SA5C-SB-4.0-5.0	SL-011-SA5C-SB-9.0-10.0	SL-012-SA5C-SS-0.0-0.5	SL-012-SA5C-SB-4.0-5.0	SL-012-SA5C-SB-9.0-10.0
Sample Date		12/13/2010	12/13/2010	10/26/2010	12/10/2010	12/10/2010	12/10/2010	12/10/2010	12/10/2010	12/10/2010	12/10/2010	12/10/2010	10/26/2010	12/09/2010	12/09/2010
SDG		DE037	DE037	DE004	DE035	DE035	DE035	DE035	DE035	DE035	DE035	DE035	DE004	DE033	DE033
Start Depth		4	9	0	4	8	4	9	4	9	4	9	0	4	9
End Depth		5	10	0.5	5	9	5	10	5	10	5	10	0.5	5	10
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
N-Nitrosodimethylamine (1625C)	ng/kg	143	105	--	--	--	96.5	178	109 J	70.0 J	36.7 U	36.1 U	--	88.0	26.8 J
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.8 U	1.8 U	2.0 U	1.9 U	1.8 U	1.8 U	1.9 U	1.9 U	1.8 U	1.8 U	1.8 U	19 U	1.9 U	2.0 U
2,4-Dinitrotoluene	ug/kg	180 U	180 U	200 U	190 U	180 U	180 U	190 U	190 U	180 U	180 U	180 U	190 U	190 U	200 U
Nitrobenzene	ug/kg	180 U	180 U	200 U	190 U	180 U	180 U	190 U	190 U	180 U	180 U	180 U	190 U	190 U	200 U
1,4-Dichlorobenzene	ug/kg	180 U	180 U	200 U	190 U	180 U	180 U	190 U	190 U	180 U	180 U	180 U	190 U	190 U	200 U
1,2,4-Trichlorobenzene	ug/kg	180 U	180 U	200 U	190 U	180 U	180 U	190 U	190 U	180 U	180 U	180 U	190 U	190 U	200 U
1,3-Dichlorobenzene	ug/kg	180 U	180 U	200 U	190 U	180 U	180 U	190 U	190 U	180 U	180 U	180 U	190 U	190 U	200 U
Hexachlorobutadiene	ug/kg	180 U	180 U	200 U	190 U	180 U	180 U	190 U	190 U	180 U	180 U	180 U	190 U	190 U	200 U
1,2-Dichlorobenzene	ug/kg	180 U	180 U	200 U	190 U	180 U	180 U	190 U	190 U	180 U	180 U	180 U	190 U	190 U	200 U
4-Nitroaniline	ug/kg	180 U	180 U	200 U	190 U	180 U	180 U	190 U	190 U	180 U	180 U	180 U	190 U	190 U	200 U
4-Nitrophenol	ug/kg	540 U	550 U	590 U	580 U	550 U	530 U	560 U	570 U	550 U	550 U	540 U	570 U	560 U	610 U
4-Bromophenyl Phenyl Ether	ug/kg	180 U	180 U	200 U	190 U	180 U	180 U	190 U	190 U	180 U	180 U	180 U	190 U	190 U	200 U
2,4-Dimethylphenol	ug/kg	180 U	180 U	200 U	190 U	180 U	180 U	190 U	190 U	180 U	180 U	180 U	190 U	190 U	200 U
4-Methylphenol	ug/kg	180 U	180 U	200 U	190 U	180 U	180 U	190 U	190 U	180 U	180 U	180 U	190 U	190 U	200 U
4-Chloroaniline	ug/kg	180 U	180 U	200 U	190 U	180 U	180 U	190 U	190 U	180 U	180 U	180 U	190 U	190 U	200 U
3,5-Dimethylphenol	ug/kg	180 U	180 U	200 U	190 U	180 U	180 U	190 U	190 U	180 U	180 U	180 U	190 U	190 U	200 U
Phenol	ug/kg	180 U	180 U	200 U	190 U	180 U	180 U	190 U	190 U	180 U	180 U	180 U	190 U	190 U	200 U
Bis(2-Chloroethyl) ether	ug/kg	180 U	180 U	200 U	190 U	180 U	180 U	190 U	190 U	180 U	180 U	180 U	190 U	190 U	200 U
Bis(2-Chloroethoxy) methane	ug/kg	180 U	180 U	200 U	190 U	180 U	180 U	190 U	190 U	180 U	180 U	180 U	190 U	190 U	200 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	360 U	370 U	--	21 J	370 U	--	20 J	20 J	21 J	21 J	23 J	--	20 J	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	--	--	38	--	--	19 U	--	--	--	--	--	87 J	--	22 U
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	190 U	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	20 U	20 U	21 U	21 U	20 U	19 U	20 U	21 U	20 U	20 U	19 U	--	20 U	22 U
Hexachlorobenzene	ug/kg	180 U	180 U	200 U	190 U	180 U	180 U	190 U	190 U	180 U	180 U	180 U	190 U	190 U	200 U
Anthracene	ug/kg	1.8 U	1.8 U	2.0 U	1.9 U	1.8 U	1.8 U	1.9 U	1.3 J	1.8 U	1.8 U	1.8 U	19 U	1.9 U	2.0 U
2,4-Dichlorophenol	ug/kg	180 U	180 U	200 U	190 U	180 U	180 U	190 U	190 U	180 U	180 U	180 U	190 U	190 U	200 U
1,2-Diphenylhydrazine	ug/kg	180 U	180 U	200 U	190 U	180 U	180 U	190 U	190 U	180 U	180 U	180 U	190 U	190 U	200 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	1.8 U	3.6	1.5 J	1.9 U	1.8 U	1.8 U	3.9	7.5	1.4 J	2.5	1.8 U	19 U	0.84 J	6.0
Dimethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	190 U	--	--
Dimethylphthalate (8270C SIM)	ug/kg	20 U	20 U	21 U	21 U	20 U	19 U	20 U	21 U	20 U	20 U	19 U	--	20 U	22 U
Dibenzofuran	ug/kg	180 U	180 U	200 U	190 U	180 U	180 U	190 U	190 U	180 U	180 U	180 U	190 U	190 U	200 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	1.8 U	1.3 J	2.0 U	1.9 U	1.8 U	1.8 U	1.9 U	1.4 J	1.8 U	0.74 J	1.8 U	19 U	1.9 U	1.1 J
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	1.8 U	0.98 J	2.0 U	1.9 U	1.8 U	1.8 U	1.9 U	0.99 J	1.8 U	1.8 U	1.8 U	19 U	1.9 U	0.84 J
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	1.8 U	3.2	2.6	1.9 U	1.8 U	0.81 J	4.2	4.4	1.3 J	1.9	0.81 J	19 U	0.96 J	5.8
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	1.8 U	4.3	1.6 J	1.9 U	1.8 U	1.8 U	3.7	10	1.5 J	2.5	0.74 J	19 U	0.83 J	6.3
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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Appendix A6
Semivolatile Organics - Validated Data
HSA-5C

Sample Name		SL-007-SA5C-SB-4.0-5.0	SL-007-SA5C-SB-9.0-10.0	SL-008-SA5C-SS-0.0-0.5	SL-008-SA5C-SB-4.0-5.0	SL-008-SA5C-SB-8.0-9.0	SL-009-SA5C-SB-4.0-5.0	SL-009-SA5C-SB-9.0-10.0	SL-010-SA5C-SB-4.0-5.0	SL-010-SA5C-SB-9.0-10.0	SL-011-SA5C-SB-4.0-5.0	SL-011-SA5C-SB-9.0-10.0	SL-012-SA5C-SS-0.0-0.5	SL-012-SA5C-SB-4.0-5.0	SL-012-SA5C-SB-9.0-10.0
Sample Date		12/13/2010	12/13/2010	10/26/2010	12/10/2010	12/10/2010	12/10/2010	12/10/2010	12/10/2010	12/10/2010	12/10/2010	12/10/2010	10/26/2010	12/09/2010	12/09/2010
SDG		DE037	DE037	DE004	DE035	DE035	DE035	DE035	DE035	DE035	DE035	DE035	DE004	DE033	DE033
Start Depth		4	9	0	4	8	4	9	4	9	4	9	0	4	9
End Depth		5	10	0.5	5	9	5	10	5	10	5	10	0.5	5	10
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Benzo(k)fluoranthene (8270C SIM)	ug/kg	1.8 U	1.5 J	4.1	1.9 U	1.8 U	1.8 U	1.3 J	1.9	1.8 U	1.8 U	1.8 U	19 U	1.9 U	1.4 J
Acenaphthylene	ug/kg	1.8 U	1.8 U	2.0 U	1.9 U	1.8 U	1.8 U	1.9 U	1.9 U	1.8 U	1.8 U	1.8 U	19 U	1.9 U	2.0 U
Chrysene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	1.8 U	3.0	1.4 J	1.9 U	1.8 U	0.51 J	2.7	4.1	1.2 J	1.9	0.60 J	19 U	0.76 J	4.9
bis(2-Chloroisopropyl) ether	ug/kg	180 U	180 U	200 U	190 U	180 U	180 U	190 U	190 U	180 U	180 U	180 U	190 U	190 UJ	200 UJ
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	1.8 U	2.0	1.2 J	1.9 U	1.8 U	1.8 U	2.2	3.1	0.84 J	1.4 J	1.8 U	19 U	1.9 U	2.9
2,4-Dinitrophenol	ug/kg	2200 U	2200 U	2400 U	2300 U	2200 U	2100 U	2200 U	2300 U	2200 U	2200 U	2200 U	2300 U	2200 U	2400 U
4,6-Dinitro-2-Methylphenol	ug/kg	540 U	550 U	590 U	580 U	550 U	530 U	560 U	570 U	550 U	550 U	540 U	570 U	560 U	610 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	1.8 U	1.8 U	2.0 U	1.9 U	1.8 U	1.8 U	1.9 U	1.9 U	1.8 U	1.8 U	1.8 U	19 U	1.9 U	2.0 U
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	1.8 U	2.7	1.1 J	1.9 U	1.8 U	1.8 U	2.2	4.4	0.92 J	1.3 J	1.8 U	19 U	1.9 U	3.3
4-Chloro-3-Methylphenol	ug/kg	180 U	180 U	200 U	190 U	180 U	180 U	190 U	190 U	180 U	180 U	180 U	190 U	190 U	200 U
N-Nitroso-Di-N-Propylamine	ug/kg	180 U	180 U	200 U	190 U	180 U	180 U	190 U	190 U	180 U	180 U	180 U	190 U	190 U	200 U
Aniline	ug/kg	540 U	550 U	590 U	580 U	550 U	530 U	560 U	570 U	550 U	550 U	540 U	570 U	560 U	610 U
Benzoic Acid	ug/kg	540 U	550 U	590 U	580 U	550 U	530 U	560 U	570 U	550 U	550 U	540 U	570 U	560 U	610 U
Hexachloroethane	ug/kg	180 U	180 U	200 U	190 U	180 U	180 U	190 U	190 U	180 U	180 U	180 U	190 U	190 U	200 U
4-Chlorophenyl Phenylether	ug/kg	180 U	180 U	200 U	190 U	180 U	180 U	190 U	190 U	180 U	180 U	180 U	190 U	190 U	200 U
Hexachlorocyclopentadiene	ug/kg	540 U	550 U	590 U	580 U	550 U	530 U	560 U	570 U	550 U	550 U	540 U	570 U	560 U	610 U
Isophorone	ug/kg	180 U	180 U	200 U	190 U	180 U	180 U	190 U	190 U	180 U	180 U	180 U	190 U	190 U	200 U
Acenaphthene	ug/kg	1.8 U	1.8 U	2.0 U	1.9 U	1.8 U	1.8 U	1.9 U	1.9 U	1.8 U	1.8 U	1.8 U	19 U	1.9 U	2.0 U
Diethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	190 U	--	--
Diethylphthalate (8270C SIM)	ug/kg	20 U	20 U	21 U	21 U	20 U	19 U	20 U	21 U	20 U	20 U	19 U	--	20 U	22 U
Di-n-Butylphthalate (8270C)	ug/kg	--	--	--	--	--	--	190 U	--	--	180 U	--	190 U	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	20 U	12 J	21 U	21 U	20 U	19 U	--	21 U	20 U	--	19 U	--	20 U	16 J
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	1.8 U	1.1 J	2.0 U	1.9 U	1.8 U	1.8 U	0.75 J	5.7	1.8 U	1.8 U	1.8 U	19 U	1.9 U	1.1 J
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	190 U	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	20 U	20 U	21 U	21 U	20 U	19 U	20 U	21 U	20 U	20 U	19 U	--	20 U	22 U
N-Nitrosodiphenylamine	ug/kg	180 U	180 U	200 U	190 U	180 U	180 U	190 U	190 U	180 U	180 U	180 U	190 U	190 U	200 U
Fluorene	ug/kg	1.8 U	1.8 U	2.0 U	1.9 U	1.8 U	1.8 U	1.9 U	1.9 U	1.8 U	1.8 U	1.8 U	19 U	1.9 U	2.0 U
Carbazole	ug/kg	180 U	180 U	200 U	190 U	180 U	180 U	190 U	190 U	180 U	180 U	180 U	190 U	190 U	200 U
Pentachlorophenol	ug/kg	540 U	550 U	590 U	580 U	550 U	530 U	560 U	570 U	550 U	550 U	540 U	570 U	560 U	610 U
2,4,6-Trichlorophenol	ug/kg	180 U	180 U	200 U	190 U	180 U	180 U	190 U	190 U	180 U	180 U	180 U	190 U	190 U	200 U
2-Nitroaniline	ug/kg	180 U	180 U	200 U	190 U	180 U	180 U	190 U	190 U	180 U	180 U	180 U	190 U	190 U	200 U
2-Nitrophenol	ug/kg	180 U	180 U	200 U	190 U	180 U	180 U	190 U	190 U	180 U	180 U	180 U	190 U	190 U	200 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	1.8 U	1.8 U	2.0 U	1.9 U	1.8 U	1.8 U	1.9 U	1.9 U	1.8 U	1.8 U	1.8 U	19 U	1.9 U	2.0 U
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene (8270C SIM)	ug/kg	1.8 U	1.8 U	2.0 U	0.89 J	1.8 U	1.8 U	1.9 U	1.9 U	0.78 J	1.8 U	0.78 J	19 U	0.76 J	2.0 U

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

Appendix A6
Semivolatile Organics - Validated Data
HSA-5C

Sample Name		SL-007-SA5C-SB-4.0-5.0	SL-007-SA5C-SB-9.0-10.0	SL-008-SA5C-SS-0.0-0.5	SL-008-SA5C-SB-4.0-5.0	SL-008-SA5C-SB-8.0-9.0	SL-009-SA5C-SB-4.0-5.0	SL-009-SA5C-SB-9.0-10.0	SL-010-SA5C-SB-4.0-5.0	SL-010-SA5C-SB-9.0-10.0	SL-011-SA5C-SB-4.0-5.0	SL-011-SA5C-SB-9.0-10.0	SL-012-SA5C-SS-0.0-0.5	SL-012-SA5C-SB-4.0-5.0	SL-012-SA5C-SB-9.0-10.0
Sample Date		12/13/2010	12/13/2010	10/26/2010	12/10/2010	12/10/2010	12/10/2010	12/10/2010	12/10/2010	12/10/2010	12/10/2010	12/10/2010	10/26/2010	12/09/2010	12/09/2010
SDG		DE037	DE037	DE004	DE035	DE035	DE035	DE035	DE035	DE035	DE035	DE035	DE004	DE033	DE033
Start Depth		4	9	0	4	8	4	9	4	9	4	9	0	4	9
End Depth		5	10	0.5	5	9	5	10	5	10	5	10	0.5	5	10
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	1.8 U	1.8 U	2.0 U	1.9 U	1.8 U	1.8 U	1.9 U	1.9 U	1.8 U	1.8 U	1.8 U	19 U	1.9 U	2.0 U
2-Chloronaphthalene	ug/kg	180 U	180 U	200 U	190 U	180 U	180 U	190 U	190 U	180 U	180 U	180 U	190 U	190 U	200 U
3,3`-Dichlorobenzidine	ug/kg	360 U	370 U	390 U	380 U	370 U	360 U	370 U	380 U	370 U	370 U	360 U	380 U	370 U	410 U
Benzidine	ug/kg	3600 U	3700 U	3900 U	3800 U	3700 U	3600 U	3700 U	3800 U	3700 U	3700 U	3600 U	3800 U	3700 U	4100 U
2-Methylphenol	ug/kg	180 U	180 U	200 U	190 U	180 U	180 U	190 U	190 U	180 U	180 U	180 U	190 U	190 U	200 U
2-Chlorophenol	ug/kg	180 U	180 U	200 U	190 U	180 U	180 U	190 U	190 U	180 U	180 U	180 U	190 U	190 U	200 U
2,4,5-Trichlorophenol	ug/kg	180 U	180 U	200 U	190 U	180 U	180 U	190 U	190 U	180 U	180 U	180 U	190 U	190 U	200 U
3-Nitroaniline	ug/kg	180 U	180 U	200 U	190 U	180 U	180 U	190 U	190 U	180 U	180 U	180 U	190 U	190 U	200 U
Benzyl Alcohol	ug/kg	540 U	550 U	590 U	580 U	550 U	530 U	560 U	570 U	550 U	550 U	540 U	570 U	560 U	610 U
2,6-Dinitrotoluene	ug/kg	180 U	180 U	200 U	190 U	180 U	180 U	190 U	190 U	180 U	180 U	180 U	190 U	190 U	200 U

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Appendix A6
Semivolatile Organics - Validated Data
HSA-5C

Sample Name		SL-013-SA5C-SB-4.0-5.0	SL-013-SA5C-SB-9.0-10.0	SL-014-SA5C-SB-4.0-5.0	SL-014-SA5C-SB-9.0-10.0	SL-015-SA5C-SB-4.0-5.0	SL-015-SA5C-SB-9.0-10.0	SL-016-SA5C-SB-4.0-5.0	SL-016-SA5C-SB-9.0-10.0	SL-017-SA5C-SB-4.0-5.0	SL-017-SA5C-SB-9.0-10.0	SL-018-SA5C-SS-0.0-0.5	SL-018-SA5C-SB-4.0-5.0	SL-019-SA5C-SB-4.0-5.0	SL-019-SA5C-SB-8.5-9.5
Sample Date		12/09/2010	12/09/2010	12/07/2010	12/07/2010	12/08/2010	12/08/2010	12/08/2010	12/08/2010	12/09/2010	12/09/2010	10/26/2010	12/06/2010	12/07/2010	12/07/2010
SDG		DE033	DE033	DE030	DE030	DE033	DE033	DE033	DE033	DE034	DE034	DE004	DX013	DE030	DE030
Start Depth		4	9	4	9	4	9	4	9	4	9	0	4	4	8.5
End Depth		5	10	5	10	5	10	5	10	5	10	0.5	5	5	9.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
N-Nitrosodimethylamine (1625C)	ng/kg	56.3	106	39.8	53.1	24.8 J	31.3 J	22.3 J	39.3	37.0 U	37.3 U	--	37.7 J	37.1 U	37.2 U
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U	19 U	1.9 U	1.9 U	1.9 U
2,4-Dinitrotoluene	ug/kg	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	190 U	190 U	190 U	190 U	190 U
Nitrobenzene	ug/kg	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	190 U	190 U	190 U	190 U	190 U
1,4-Dichlorobenzene	ug/kg	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	190 U	190 U	190 U	190 U	190 U
1,2,4-Trichlorobenzene	ug/kg	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	190 U	190 U	190 U	190 U	190 U
1,3-Dichlorobenzene	ug/kg	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	190 U	190 U	190 U	190 U	190 U
Hexachlorobutadiene	ug/kg	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	190 U	190 U	190 U	190 U	190 U
1,2-Dichlorobenzene	ug/kg	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	190 U	190 U	190 U	190 U	190 U
4-Nitroaniline	ug/kg	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	190 U	190 U	190 U	190 U	190 U
4-Nitrophenol	ug/kg	550 U	550 U	550 U	550 U	550 U	540 U	550 U	550 U	550 U	560 U	580 U	570 U	560 U	560 U
4-Bromophenyl Phenyl Ether	ug/kg	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	190 U	190 U	190 U	190 U	190 U
2,4-Dimethylphenol	ug/kg	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	190 U	190 U	190 U	190 U	190 U
4-Methylphenol	ug/kg	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	190 U	190 U	190 U	190 U	190 U
4-Chloroaniline	ug/kg	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	190 U	190 U	190 U	190 U	190 U
3,5-Dimethylphenol	ug/kg	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	130 J	190 U	190 U	190 U	190 U	190 U
Phenol	ug/kg	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	190 U	190 U	190 U	190 U	190 U
Bis(2-Chloroethyl) ether	ug/kg	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	190 U	190 U	190 U	190 U	190 U
Bis(2-Chloroethoxy) methane	ug/kg	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	190 U	190 U	190 U	190 U	190 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	22 J	--	--	--	--	24 J	21 J	--	--	--	390 U	--	--	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	--	33	20 U	20 U	35	--	--	32 U	14 J	7.1 J	--	21 U	20 U	20 U
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	190 U	--	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	9.9 J	6.9 J	--	21 U	20 U	20 U
Hexachlorobenzene	ug/kg	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	190 U	190 U	190 U	190 U	190 U
Anthracene	ug/kg	1.8 U	1.8 U	1.8 U	0.45 J	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U	19 U	1.9 U	1.9 U	1.9 U
2,4-Dichlorophenol	ug/kg	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	190 U	190 U	190 U	190 U	190 U
1,2-Diphenylhydrazine	ug/kg	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	190 U	190 U	190 U	190 U	190 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	3.7	3.8	2.3	7.5	0.78 J	1.9	1.8 U	2.3	1.8 U	1.9 U	19 U	0.80 J	1.9 U	1.9 U
Dimethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	190 U	--	--	--
Dimethylphthalate (8270C SIM)	ug/kg	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	--	21 U	20 U	20 U
Dibenzofuran	ug/kg	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	190 U	190 U	190 U	190 U	190 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	1.8 U	1.8 U	1.8 U	1.1 J	1.8 U	1.8 U	1.8 U	0.85 J	1.8 UJ	1.9 U	19 U	0.78 J	1.9 U	1.9 U
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	1.8 U	1.8 U	1.8 U	0.92 J	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U	19 U	1.9 U	1.9 U	1.9 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	3.1	3.6	1.4 J	6.2	1.0 J	1.2 J	1.8 U	1.9	1.8 U	1.9 U	11 J	1.4 J	1.9 U	1.9 U
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	4.3	3.5	2.2	8.4	0.88 J	1.8	1.8 U	2.4	1.8 U	1.9 U	19 U	0.91 J	1.9 U	1.9 U
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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Appendix A6
Semivolatile Organics - Validated Data
HSA-5C

Sample Name		SL-013-SA5C-SB-4.0-5.0	SL-013-SA5C-SB-9.0-10.0	SL-014-SA5C-SB-4.0-5.0	SL-014-SA5C-SB-9.0-10.0	SL-015-SA5C-SB-4.0-5.0	SL-015-SA5C-SB-9.0-10.0	SL-016-SA5C-SB-4.0-5.0	SL-016-SA5C-SB-9.0-10.0	SL-017-SA5C-SB-4.0-5.0	SL-017-SA5C-SB-9.0-10.0	SL-018-SA5C-SS-0.0-0.5	SL-018-SA5C-SB-4.0-5.0	SL-019-SA5C-SB-4.0-5.0	SL-019-SA5C-SB-8.5-9.5
Sample Date		12/09/2010	12/09/2010	12/07/2010	12/07/2010	12/08/2010	12/08/2010	12/08/2010	12/08/2010	12/09/2010	12/09/2010	10/26/2010	12/06/2010	12/07/2010	12/07/2010
SDG		DE033	DE033	DE030	DE030	DE033	DE033	DE033	DE033	DE034	DE034	DE004	DX013	DE030	DE030
Start Depth		4	9	4	9	4	9	4	9	4	9	0	4	4	8.5
End Depth		5	10	5	10	5	10	5	10	5	10	0.5	5	5	9.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Benzo(k)fluoranthene (8270C SIM)	ug/kg	1.4 J	1.6 J	0.91 J	1.9	1.8 U	1.8 U	1.8 U	0.92 J	1.8 U	1.9 U	19 U	1.9 U	1.9 U	1.9 U
Acenaphthylene	ug/kg	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U	19 U	1.9 U	1.9 U	1.9 U
Chrysene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	2.3	3.1	1.6 J	5.1	0.81 J	1.4 J	1.8 U	2.0	1.8 U	1.9 U	5.3 J	0.77 J	1.9 U	1.9 U
bis(2-Chloroisopropyl) ether	ug/kg	180 UJ	180 UJ	180 U	180 U	180 UJ	180 UJ	180 UJ	180 UJ	180 U	190 U	190 U	190 U	190 U	190 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	1.9	2.0	1.4 J	3.6	1.8 U	1.8 U	1.8 U	1.2 J	1.8 U	1.9 U	19 U	0.94 J	1.9 U	1.9 U
2,4-Dinitrophenol	ug/kg	2200 U	2200 U	2200 U	2200 U	2200 U	2200 U	2200 U	2200 U	2200 U	2200 U	2300 U	2300 U	2200 U	2200 U
4,6-Dinitro-2-Methylphenol	ug/kg	550 U	550 U	550 U	550 U	550 U	540 U	550 U	550 U	550 U	560 U	580 U	570 U	560 U	560 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U	19 U	1.9 U	1.9 U	1.9 U
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	2.1	2.0	1.3 J	4.4	1.8 U	0.80 J	1.8 U	1.4 J	1.8 U	1.9 U	19 U	1.9 U	1.9 U	1.9 U
4-Chloro-3-Methylphenol	ug/kg	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	190 U	190 U	190 U	190 U	190 U
N-Nitroso-Di-N-Propylamine	ug/kg	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	190 U	190 U	190 U	190 U	190 U
Aniline	ug/kg	550 U	550 U	550 U	550 U	550 U	540 U	550 U	550 U	550 U	560 U	580 U	570 U	560 U	560 U
Benzoic Acid	ug/kg	550 U	550 U	550 U	550 U	550 U	540 U	550 U	550 U	550 U	560 U	580 U	570 U	560 U	560 U
Hexachloroethane	ug/kg	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	190 U	190 U	190 U	190 U	190 U
4-Chlorophenyl Phenylether	ug/kg	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	190 U	190 U	190 U	190 U	190 U
Hexachlorocyclopentadiene	ug/kg	550 U	550 U	550 U	550 U	550 U	540 U	550 U	550 U	550 U	560 U	580 U	570 U	560 U	560 U
Isophorone	ug/kg	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	190 U	190 U	190 U	190 U	190 U
Acenaphthene	ug/kg	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U	19 U	1.9 U	1.9 U	1.9 U
Diethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	190 U	--	--	--
Diethylphthalate (8270C SIM)	ug/kg	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	--	21 U	20 U	20 U
Di-n-Butylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	190 U	--	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	--	21 U	20 U	20 U
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	1.2 J	0.99 J	1.0 J	2.3	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U	19 U	1.9 U	1.9 U	1.9 U
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	190 U	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	20 U	15 J	20 U	20 U	20 U	20 U	20 U	8.8 J	20 U	20 U	--	21 U	20 U	20 U
N-Nitrosodiphenylamine	ug/kg	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	190 U	190 U	190 U	190 U	190 U
Fluorene	ug/kg	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U	19 U	1.9 U	1.9 U	1.9 U
Carbazole	ug/kg	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	190 U	190 U	190 U	190 U	190 U
Pentachlorophenol	ug/kg	550 U	550 U	550 U	550 U	550 U	540 U	550 U	550 U	550 U	560 U	580 U	570 U	560 U	560 U
2,4,6-Trichlorophenol	ug/kg	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	190 U	190 U	190 U	190 U	190 U
2-Nitroaniline	ug/kg	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	190 U	190 U	190 U	190 U	190 U
2-Nitrophenol	ug/kg	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	190 U	190 U	190 U	190 U	190 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U	19 U	1.9 U	1.9 U	1.9 U
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene (8270C SIM)	ug/kg	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	0.82 J	1.9 U	19 U	1.9 U	1.9 U	1.9 U

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

Appendix A6
Semivolatile Organics - Validated Data
HSA-5C

Sample Name		SL-013-SA5C-SB-4.0-5.0	SL-013-SA5C-SB-9.0-10.0	SL-014-SA5C-SB-4.0-5.0	SL-014-SA5C-SB-9.0-10.0	SL-015-SA5C-SB-4.0-5.0	SL-015-SA5C-SB-9.0-10.0	SL-016-SA5C-SB-4.0-5.0	SL-016-SA5C-SB-9.0-10.0	SL-017-SA5C-SB-4.0-5.0	SL-017-SA5C-SB-9.0-10.0	SL-018-SA5C-SS-0.0-0.5	SL-018-SA5C-SB-4.0-5.0	SL-019-SA5C-SB-4.0-5.0	SL-019-SA5C-SB-8.5-9.5
Sample Date		12/09/2010	12/09/2010	12/07/2010	12/07/2010	12/08/2010	12/08/2010	12/08/2010	12/08/2010	12/09/2010	12/09/2010	10/26/2010	12/06/2010	12/07/2010	12/07/2010
SDG		DE033	DE033	DE030	DE030	DE033	DE033	DE033	DE033	DE034	DE034	DE004	DX013	DE030	DE030
Start Depth		4	9	4	9	4	9	4	9	4	9	0	4	4	8.5
End Depth		5	10	5	10	5	10	5	10	5	10	0.5	5	5	9.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U	19 U	1.9 U	1.9 U	1.9 U
2-Chloronaphthalene	ug/kg	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	190 U	190 U	190 U	190 U	190 U
3,3`-Dichlorobenzidine	ug/kg	370 U	370 U	360 U	370 U	370 U	360 U	370 U	370 U	370 U	370 U	390 U	380 U	370 U	370 U
Benzidine	ug/kg	3700 U	3700 U	3600 U	3700 U	3700 U	3600 U	3700 U	3700 U	3700 R	3700 U	3900 U	3800 U	3700 U	3700 U
2-Methylphenol	ug/kg	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	190 U	190 U	190 U	190 U	190 U
2-Chlorophenol	ug/kg	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	190 U	190 U	190 U	190 U	190 U
2,4,5-Trichlorophenol	ug/kg	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	190 U	190 U	190 U	190 U	190 U
3-Nitroaniline	ug/kg	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	190 U	190 U	190 U	190 U	190 U
Benzyl Alcohol	ug/kg	550 U	550 U	550 U	550 U	550 U	540 U	550 U	550 U	550 U	560 U	580 U	570 U	560 U	560 U
2,6-Dinitrotoluene	ug/kg	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	190 U	190 U	190 U	190 U	190 U

U – Compound not detected above the reporting limit
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Appendix A6
Semivolatile Organics - Validated Data
HSA-5C

Sample Name		SL-020-SA5C-SS-0.0-0.5	SL-020-SA5C-SB-4.0-5.0	SL-020-SA5C-SB-7.5-8.5	SL-021-SA5C-SB-4.0-5.0	SL-021-SA5C-SB-9.0-10.0	SL-022-SA5C-SB-4.0-5.0	SL-024-SA5C-SS-0.0-0.5	SL-024-SA5C-SB-4.0-5.0	SL-024-SA5C-SB-9.0-10.0	SL-025-SA5C-SB-4.0-5.0	SL-025-SA5C-SB-9.0-10.0	SL-026-SA5C-SS-0.0-0.5	SL-026-SA5C-SB-4.0-5.0	SL-026-SA5C-SB-9.0-10.0
Sample Date		10/26/2010	12/08/2010	12/08/2010	12/08/2010	12/08/2010	12/09/2010	10/26/2010	12/06/2010	12/06/2010	12/06/2010	12/06/2010	10/25/2010	12/07/2010	12/07/2010
SDG		DE004	DE033	DE033	DE033	DE033	DE033	DE004	DX013	DX013	DX013	DX013	DE004	DE030	DE030
Start Depth		0	4	7.5	4	9	4	0	4	9	4	9	0	4	9
End Depth		0.5	5	8.5	5	10	5	0.5	5	10	5	10	0.5	5	10
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
N-Nitrosodimethylamine (1625C)	ng/kg	--	37.2	36.5 U	22.9 J	114	162	--	--	--	27.2 J	80.3	--	36.6 U	37.9 U
N-Nitrosodimethylamine (8270C SIM)	ug/kg	18 U	1.9 U	1.8 U	1.8 U	1.8 U	1.8 U	18 U	1.8 U	1.8 U	1.9 U	1.8 U	18 U	1.8 U	1.9 U
2,4-Dinitrotoluene	ug/kg	180 U	190 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	190 U
Nitrobenzene	ug/kg	180 U	190 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	190 U
1,4-Dichlorobenzene	ug/kg	180 U	190 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	190 U
1,2,4-Trichlorobenzene	ug/kg	180 U	190 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	190 U
1,3-Dichlorobenzene	ug/kg	180 U	190 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	190 U
Hexachlorobutadiene	ug/kg	180 U	190 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	190 U
1,2-Dichlorobenzene	ug/kg	180 U	190 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	190 U
4-Nitroaniline	ug/kg	180 U	190 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	190 U
4-Nitrophenol	ug/kg	550 U	560 U	550 U	530 U	550 U	550 U	550 U	550 U	550 U	560 U	550 U	540 U	550 U	570 U
4-Bromophenyl Phenyl Ether	ug/kg	180 U	190 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	190 U
2,4-Dimethylphenol	ug/kg	180 U	190 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	190 U
4-Methylphenol	ug/kg	180 U	190 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	190 U
4-Chloroaniline	ug/kg	180 U	190 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	190 U
3,5-Dimethylphenol	ug/kg	180 U	190 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	190 U
Phenol	ug/kg	180 U	190 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	190 U
Bis(2-Chloroethyl) ether	ug/kg	180 U	190 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	190 U
Bis(2-Chloroethoxy) methane	ug/kg	180 U	190 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	190 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	360 U	--	--	--	--	--	53 J	--	--	--	--	47 J	--	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	--	70	35	72	45	20 U	--	20 U	20 U	20 U	20 U	--	20 U	20 U
Di-N-Octyl Phthalate (8270C)	ug/kg	180 U	--	--	--	--	--	180 U	--	--	--	--	180 U	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	--	10 J	20 U	19 U	8.5 J	20 U	--	20 U	20 U	20 U	20 U	--	20 U	20 U
Hexachlorobenzene	ug/kg	180 U	190 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	190 U
Anthracene	ug/kg	18 U	1.9 U	1.8 U	1.8 U	1.7 J	1.8 U	18 U	1.8 U	1.8 U	1.9 U	1.8 U	18 U	1.8 U	1.9 U
2,4-Dichlorophenol	ug/kg	180 U	190 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	190 U
1,2-Diphenylhydrazine	ug/kg	180 U	190 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	190 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	18 U	2.5	1.8 U	2.9	3.6	1.8 U	28	1.8 U	2.1	1.8 J	1.8 U	30	1.8 U	1.9 U
Dimethylphthalate (8270C)	ug/kg	180 U	--	--	--	--	--	180 U	--	--	--	--	180 U	--	--
Dimethylphthalate (8270C SIM)	ug/kg	--	20 U	20 U	19 U	20 U	20 U	--	20 U	20 U	20 U	20 U	--	20 U	20 U
Dibenzofuran	ug/kg	180 U	190 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	190 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--	35 J	--	--	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	18 U	1.9 U	1.8 U	1.0 J	1.3 J	1.8 U	--	1.8 U	1.8 U	1.9 U	1.8 U	13 J	1.8 U	1.9 U
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	--	19 J	--	--	--	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	18 U	1.9 U	1.8 U	0.85 J	1.4 J	1.8 U	--	1.8 U	1.8 U	1.9 U	1.8 U	18 U	1.8 U	1.9 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	11 J	2.1	1.8 U	2.9	3.7	1.8 U	130	1.8 U	1.7 J	2.3	1.8 U	100	1.8 U	1.9 U
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	18 U	4.3	1.8 U	3.6	4.5	1.8 U	14 J	1.8 U	1.9	2.0	1.8 U	18 U	1.8 U	1.9 U
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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Appendix A6
Semivolatile Organics - Validated Data
HSA-5C

Sample Name		SL-020-SA5C-SS-0.0-0.5	SL-020-SA5C-SB-4.0-5.0	SL-020-SA5C-SB-7.5-8.5	SL-021-SA5C-SB-4.0-5.0	SL-021-SA5C-SB-9.0-10.0	SL-022-SA5C-SB-4.0-5.0	SL-024-SA5C-SS-0.0-0.5	SL-024-SA5C-SB-4.0-5.0	SL-024-SA5C-SB-9.0-10.0	SL-025-SA5C-SB-4.0-5.0	SL-025-SA5C-SB-9.0-10.0	SL-026-SA5C-SS-0.0-0.5	SL-026-SA5C-SB-4.0-5.0	SL-026-SA5C-SB-9.0-10.0
Sample Date		10/26/2010	12/08/2010	12/08/2010	12/08/2010	12/08/2010	12/09/2010	10/26/2010	12/06/2010	12/06/2010	12/06/2010	12/06/2010	10/25/2010	12/07/2010	12/07/2010
SDG		DE004	DE033	DE033	DE033	DE033	DE033	DE004	DX013	DX013	DX013	DX013	DE004	DE030	DE030
Start Depth		0	4	7.5	4	9	4	0	4	9	4	9	0	4	9
End Depth		0.5	5	8.5	5	10	5	0.5	5	10	5	10	0.5	5	10
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Benzo(k)fluoranthene (8270C SIM)	ug/kg	18 U	0.87 J	1.8 U	1.0 J	3.0	1.8 U	18 U	1.8 U	1.0 J	2.0	1.8 U	18 U	1.8 U	1.9 U
Acenaphthylene	ug/kg	18 U	1.9 U	1.8 U	1.8 U	0.63 J	1.8 U	18 U	1.8 U	1.8 U	1.9 U	1.8 U	18 U	1.8 U	1.9 U
Chrysene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	5.9 J	1.9	1.8 U	2.3	3.4	1.8 U	48	1.8 U	1.5 J	1.6 J	1.8 U	70	1.8 U	1.9 U
bis(2-Chloroisopropyl) ether	ug/kg	180 U	190 UJ	180 UJ	180 UJ	180 UJ	180 UJ	180 U	180 U	180 U	190 U	180 U	180 U	180 U	190 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	18 U	1.9 U	1.8 U	1.4 J	2.6	1.8 U	69	1.8 U	1.3 J	1.8 J	1.8 U	49	1.8 U	1.9 U
2,4-Dinitrophenol	ug/kg	2200 U	2200 U	2200 U	2100 U	2200 U	2200 U	2200 U	2200 U	2200 U	2200 U	2200 U	2200 U	2200 U	2300 U
4,6-Dinitro-2-Methylphenol	ug/kg	550 U	560 U	550 U	530 U	550 U	550 U	550 U	550 U	550 U	560 U	550 U	540 U	550 U	570 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	18 U	1.9 U	1.8 U	1.8 U	1.3 J	1.8 U	10 J	1.8 U	1.8 U	1.9 U	1.8 U	18 U	1.8 U	1.9 U
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	18 U	0.80 J	1.8 U	1.4 J	2.7	1.8 U	16 J	1.8 U	1.2 J	1.2 J	1.8 U	11 J	1.8 U	1.9 U
4-Chloro-3-Methylphenol	ug/kg	180 U	190 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	190 U
N-Nitroso-Di-N-Propylamine	ug/kg	180 U	190 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	190 U
Aniline	ug/kg	550 U	560 U	550 U	530 U	550 U	550 U	550 U	550 U	550 U	560 U	550 U	540 U	550 U	570 U
Benzoic Acid	ug/kg	550 U	560 U	550 U	530 U	550 U	550 U	550 U	550 U	550 U	560 U	550 U	540 U	550 U	570 U
Hexachloroethane	ug/kg	180 U	190 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	190 U
4-Chlorophenyl Phenylether	ug/kg	180 U	190 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	190 U
Hexachlorocyclopentadiene	ug/kg	550 U	560 U	550 U	530 U	550 U	550 U	550 U	550 U	550 U	560 U	550 U	540 U	550 U	570 U
Isophorone	ug/kg	180 U	190 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	190 U
Acenaphthene	ug/kg	18 U	1.9 U	1.8 U	1.8 U	1.8 U	1.8 U	18 U	1.8 U	1.8 U	1.9 U	1.8 U	18 U	1.8 U	1.9 U
Diethylphthalate (8270C)	ug/kg	180 U	--	--	--	--	--	180 U	--	--	--	--	180 U	--	--
Diethylphthalate (8270C SIM)	ug/kg	--	20 U	20 U	19 U	20 U	20 U	--	20 U	20 U	20 U	20 U	--	20 U	20 U
Di-n-Butylphthalate (8270C)	ug/kg	180 U	--	--	--	--	--	180 U	--	--	--	--	180 U	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	--	6.7 J	20 U	9.2 J	7.9 J	20 U	--	20 U	20 U	20 U	20 U	--	20 U	20 U
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	18 U	1.1 J	1.8 U	1.2 J	2.1	1.8 U	18 U	1.8 U	1.8 U	1.9 U	1.8 U	18 U	1.8 U	1.9 U
Butylbenzylphthalate (8270C)	ug/kg	180 U	--	--	--	--	--	21 J	--	--	--	--	180 U	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	--	24	20 U	11 J	19 J	20 U	--	20 U	20 U	20 U	20 U	--	20 U	20 U
N-Nitrosodiphenylamine	ug/kg	180 U	190 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	190 U
Fluorene	ug/kg	18 U	1.9 U	1.8 U	1.8 U	1.0 J	1.8 U	18 U	1.8 U	1.8 U	1.9 U	1.8 U	18 U	1.8 U	1.9 U
Carbazole	ug/kg	180 U	190 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	190 U
Pentachlorophenol	ug/kg	550 U	560 U	550 U	530 U	550 U	550 U	550 U	550 U	550 U	560 U	550 U	540 U	550 U	570 U
2,4,6-Trichlorophenol	ug/kg	180 U	190 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	190 U
2-Nitroaniline	ug/kg	180 U	190 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	190 U
2-Nitrophenol	ug/kg	180 U	190 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	190 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	18 U	1.9 U	1.8 U	1.8 U	1.8 U	1.8 U	18 U	1.8 U	1.8 U	1.9 U	1.8 U	18 U	1.8 U	1.9 U
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene (8270C SIM)	ug/kg	18 U	1.9 U	1.8 U	1.8 U	1.8 U	1.8 U	18 U	1.8 U	1.8 U	1.9 U	1.8 U	18 U	1.8 U	0.78 J

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Appendix A6
Semivolatile Organics - Validated Data
HSA-5C

Sample Name		SL-020-SA5C-SS-0.0-0.5	SL-020-SA5C-SB-4.0-5.0	SL-020-SA5C-SB-7.5-8.5	SL-021-SA5C-SB-4.0-5.0	SL-021-SA5C-SB-9.0-10.0	SL-022-SA5C-SB-4.0-5.0	SL-024-SA5C-SS-0.0-0.5	SL-024-SA5C-SB-4.0-5.0	SL-024-SA5C-SB-9.0-10.0	SL-025-SA5C-SB-4.0-5.0	SL-025-SA5C-SB-9.0-10.0	SL-026-SA5C-SS-0.0-0.5	SL-026-SA5C-SB-4.0-5.0	SL-026-SA5C-SB-9.0-10.0
Sample Date		10/26/2010	12/08/2010	12/08/2010	12/08/2010	12/08/2010	12/09/2010	10/26/2010	12/06/2010	12/06/2010	12/06/2010	12/06/2010	10/25/2010	12/07/2010	12/07/2010
SDG		DE004	DE033	DE033	DE033	DE033	DE033	DE004	DX013	DX013	DX013	DX013	DE004	DE030	DE030
Start Depth		0	4	7.5	4	9	4	0	4	9	4	9	0	4	9
End Depth		0.5	5	8.5	5	10	5	0.5	5	10	5	10	0.5	5	10
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	18 U	1.9 U	1.8 U	1.8 U	1.8 U	1.8 U	18 U	1.8 U	1.8 U	1.9 U	1.8 U	18 U	1.8 U	1.9 U
2-Chloronaphthalene	ug/kg	180 U	190 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	190 U
3,3`-Dichlorobenzidine	ug/kg	360 U	370 U	370 U	360 U	360 U	370 U	370 U	370 U	360 U	370 U	370 U	360 U	370 U	380 U
Benzidine	ug/kg	3600 U	3700 U	3700 U	3600 U	3600 U	3700 U	3700 U	3700 U	3600 U	3700 U	3700 U	3600 U	3700 U	3800 U
2-Methylphenol	ug/kg	180 U	190 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	190 U
2-Chlorophenol	ug/kg	180 U	190 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	190 U
2,4,5-Trichlorophenol	ug/kg	180 U	190 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	190 U
3-Nitroaniline	ug/kg	180 U	190 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	190 U
Benzyl Alcohol	ug/kg	550 U	560 U	550 U	530 U	550 U	550 U	550 U	550 U	550 U	560 U	550 U	540 U	550 U	570 U
2,6-Dinitrotoluene	ug/kg	180 U	190 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	190 U

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

Appendix A6
Semivolatile Organics - Validated Data
HSA-5C

Sample Name		SL-027-SA5C-SS-0.0-0.5	SL-027-SA5C-SB-2.5-3.5	SL-027-SA5C-SB-9.0-10.0	SL-028-SA5C-SB-4.0-5.0	SL-030-SA5C-SB-4.0-5.0	SL-030-SA5C-SB-9.0-10.0	SL-031-SA5C-SB-4.0-5.0	SL-031-SA5C-SB-9.0-10.0	SL-032-SA5C-SS-0.0-0.5	SL-032-SA5C-SB-4.0-5.0	SL-033-SA5C-SS-0.0-0.5	SL-036-SA5C-SS-0.0-0.5	SL-036-SA5C-SB-4.0-5.0	SL-037-SA5C-SB-3.5-4.5
Sample Date		10/25/2010	12/07/2010	12/07/2010	12/06/2010	12/03/2010	12/03/2010	12/03/2010	12/03/2010	10/25/2010	12/03/2010	10/26/2010	01/04/2011	12/02/2010	12/02/2010
SDG		DE004	DE030	DE030	DE029	DE028	DE028	DE028	DE028	DE004	DE028	DE004	DE052	DE027	DE027
Start Depth		0	2.5	9	4	4	9	4	9	0	4	0	0	4	3.5
End Depth		0.5	3.5	10	5	5	10	5	10	0.5	5	0.5	0.5	5	4.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
N-Nitrosodimethylamine (1625C)	ng/kg	--	37.2 U	38.1 U	51.2 J	37.0 U	37.9 U	37.5 U	38.3 U	--	36.2 U	--	--	--	150 J
N-Nitrosodimethylamine (8270C SIM)	ug/kg	18 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	1.8 U	9.9 U	1.9 U	1.9 U
2,4-Dinitrotoluene	ug/kg	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U	190 U	180 U	180 U	200 U	190 U	190 U
Nitrobenzene	ug/kg	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U	190 U	180 U	180 U	200 U	190 U	190 U
1,4-Dichlorobenzene	ug/kg	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U	190 U	180 U	180 U	200 U	190 U	190 U
1,2,4-Trichlorobenzene	ug/kg	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U	190 U	180 U	180 U	200 U	190 U	190 U
1,3-Dichlorobenzene	ug/kg	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U	190 U	180 U	180 U	200 U	190 U	190 U
Hexachlorobutadiene	ug/kg	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U	190 U	180 U	180 U	200 U	190 U	190 U
1,2-Dichlorobenzene	ug/kg	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U	190 U	180 U	180 U	200 U	190 U	190 U
4-Nitroaniline	ug/kg	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U	190 U	180 U	180 U	200 U	190 U	190 U
4-Nitrophenol	ug/kg	550 U	560 U	570 U	550 U	560 U	570 U	560 U	570 U	560 U	540 U	540 U	600 U	570 U	570 U
4-Bromophenyl Phenyl Ether	ug/kg	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U	190 U	180 U	180 U	200 U	190 U	190 U
2,4-Dimethylphenol	ug/kg	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U	190 U	180 U	180 U	200 U	190 U	190 U
4-Methylphenol	ug/kg	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U	190 U	180 U	180 U	200 U	190 U	190 U
4-Chloroaniline	ug/kg	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U	190 U	180 U	180 U	200 U	190 U	190 U
3,5-Dimethylphenol	ug/kg	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U	190 U	180 U	180 U	200 U	190 U	190 U
Phenol	ug/kg	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U	190 U	180 U	180 U	200 U	190 U	190 U
Bis(2-Chloroethyl) ether	ug/kg	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U	190 U	180 U	180 U	200 U	190 U	190 U
Bis(2-Chloroethoxy) methane	ug/kg	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U	190 U	180 U	180 U	200 U	190 U	190 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	19 J	--	--	--	--	--	--	26 J	24 J	--	--	400 U	--	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	--	20 U	21 U	10 J	20 U	20 U	20 U	--	--	20 U	35	--	21 U	21 U
Di-N-Octyl Phthalate (8270C)	ug/kg	180 U	--	--	--	--	--	--	--	--	--	--	200 U	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	--	20 U	21 U	20 U	20 U	20 U	20 U	21 U	20 U	20 U	8.5 J	--	21 U	21 U
Hexachlorobenzene	ug/kg	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U	190 U	180 U	180 U	200 U	190 U	190 U
Anthracene	ug/kg	18 U	1.9 U	1.9 U	1.8 UJ	1.9 U	1.9 U	1.9 U	1.9 U	0.78 J	1.8 U	0.53 J	9.9 U	1.9 U	1.9 U
2,4-Dichlorophenol	ug/kg	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U	190 U	180 U	180 U	200 U	190 U	190 U
1,2-Diphenylhydrazine	ug/kg	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U	190 U	180 U	180 U	200 U	190 U	190 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	18 U	1.9 U	1.9 U	1.7 J	1.9 U	1.9 U	3.6	1.9 U	2.4	1.8 U	1.4 J	4.1 J	1.9 U	1.9 U
Dimethylphthalate (8270C)	ug/kg	180 U	--	--	--	--	--	--	--	--	--	--	200 U	--	--
Dimethylphthalate (8270C SIM)	ug/kg	--	20 U	21 U	20 UJ	20 U	20 U	20 U	21 U	20 U	20 U	19 U	--	21 U	21 U
Dibenzofuran	ug/kg	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U	190 U	180 U	180 U	200 U	190 U	190 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	18 U	1.9 U	1.9 U	0.96 J	1.9 U	1.9 U	1.8 J	1.9 U	1.1 J	1.8 U	0.93 J	7.1 J	1.9 U	1.9 U
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	18 U	1.9 U	1.9 U	1.8 UJ	1.9 U	1.9 U	0.75 J	1.9 U	0.83 J	1.8 U	1.0 J	9.9 U	1.9 U	1.9 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	10 J	1.9 U	1.9 U	2.6	0.87 J	1.9 U	4.7	1.9 U	4.1	1.8 U	1.7 J	22	1.9 U	1.9 U
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	18 U	1.9 U	1.9 U	1.7 J	1.9 U	1.9 U	0.89 J	1.9 U	1.6 J	1.8 U	1.3 J	9.9 U	1.9 U	1.9 U
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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

Appendix A6
Semivolatile Organics - Validated Data
HSA-5C

Sample Name		SL-027-SA5C-SS-0.0-0.5	SL-027-SA5C-SB-2.5-3.5	SL-027-SA5C-SB-9.0-10.0	SL-028-SA5C-SB-4.0-5.0	SL-030-SA5C-SB-4.0-5.0	SL-030-SA5C-SB-9.0-10.0	SL-031-SA5C-SB-4.0-5.0	SL-031-SA5C-SB-9.0-10.0	SL-032-SA5C-SS-0.0-0.5	SL-032-SA5C-SB-4.0-5.0	SL-033-SA5C-SS-0.0-0.5	SL-036-SA5C-SS-0.0-0.5	SL-036-SA5C-SB-4.0-5.0	SL-037-SA5C-SB-3.5-4.5
Sample Date		10/25/2010	12/07/2010	12/07/2010	12/06/2010	12/03/2010	12/03/2010	12/03/2010	12/03/2010	10/25/2010	12/03/2010	10/26/2010	01/04/2011	12/02/2010	12/02/2010
SDG		DE004	DE030	DE030	DE029	DE028	DE028	DE028	DE028	DE004	DE028	DE004	DE052	DE027	DE027
Start Depth		0	2.5	9	4	4	9	4	9	0	4	0	0	4	3.5
End Depth		0.5	3.5	10	5	5	10	5	10	0.5	5	0.5	0.5	5	4.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Benzo(k)fluoranthene (8270C SIM)	ug/kg	18 U	1.9 U	1.9 U	0.75 J	1.9 U	1.9 U	2.4	1.9 U	1.9	1.8 U	1.6 J	9.9 U	1.9 U	1.9 U
Acenaphthylene	ug/kg	18 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	1.8 U	9.9 U	1.9 U	1.9 U
Chrysene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	9.7 J	1.9 U	1.9 U	1.7 J	1.4 J	1.2 J	7.1	0.59 J	2.7	1.8 U	1.6 J	25	1.9 U	1.9 U
bis(2-Chloroisopropyl) ether	ug/kg	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U	190 U	180 U	180 U	200 U	190 U	190 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	18 U	1.9 U	1.9 U	1.5 J	0.83 J	0.77 J	5.0	1.9 U	1.3 J	1.8 U	1.5 J	9.4 J	1.9 U	1.9 U
2,4-Dinitrophenol	ug/kg	2200 U	2200 U	2300 U	2200 U	2200 U	2300 U	2300 U	2300 U	2200 U	2200 U	2100 U	2400 U	2300 U	2300 U
4,6-Dinitro-2-Methylphenol	ug/kg	550 U	560 U	570 U	550 U	560 U	570 U	560 U	570 U	560 U	540 U	540 U	600 U	570 U	570 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	18 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	0.94 J	1.9 U	1.9 U	1.8 U	0.99 J	4.6 J	1.9 U	1.9 U
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	18 U	1.9 U	1.9 U	1.1 J	1.9 U	1.9 U	1.4 J	1.9 U	0.88 J	1.8 U	1.6 J	6.4 J	1.9 U	1.9 U
4-Chloro-3-Methylphenol	ug/kg	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U	190 U	180 U	180 U	200 U	190 U	190 U
N-Nitroso-Di-N-Propylamine	ug/kg	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U	190 U	180 U	180 U	200 U	190 U	190 U
Aniline	ug/kg	550 U	560 U	570 U	550 U	560 U	570 U	560 U	570 U	560 U	540 U	540 U	600 U	570 U	570 U
Benzoic Acid	ug/kg	550 U	560 U	570 U	550 U	560 U	570 U	560 U	570 U	560 U	540 U	540 U	600 U	570 U	570 U
Hexachloroethane	ug/kg	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U	190 U	180 U	180 U	200 U	190 U	190 U
4-Chlorophenyl Phenylether	ug/kg	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U	190 U	180 U	180 U	200 U	190 U	190 U
Hexachlorocyclopentadiene	ug/kg	550 U	560 U	570 U	550 U	560 U	570 U	560 U	570 U	560 U	540 U	540 U	600 U	570 U	570 U
Isophorone	ug/kg	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U	190 U	180 U	180 U	200 U	190 U	190 U
Acenaphthene	ug/kg	18 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	1.8 U	9.9 U	1.9 U	1.9 U
Diethylphthalate (8270C)	ug/kg	180 U	--	--	--	--	--	--	--	--	--	--	200 U	--	--
Diethylphthalate (8270C SIM)	ug/kg	--	20 U	21 U	20 U	20 U	20 U	20 U	21 U	20 U	20 U	19 U	--	21 U	21 U
Di-n-Butylphthalate (8270C)	ug/kg	180 U	--	--	--	--	--	--	--	--	--	--	200 U	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	--	20 U	21 U	20 U	20 U	20 U	20 U	21 U	20 U	20 U	19 U	--	21 U	21 U
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	18 U	1.9 U	1.9 U	1.8 UJ	0.82 J	1.9 U	2.3	1.9 U	1.9 U	1.8 U	0.77 J	9.9 U	1.9 U	1.9 U
Butylbenzylphthalate (8270C)	ug/kg	180 U	--	--	--	--	--	--	--	--	--	--	200 U	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	--	20 U	21 U	20 U	20 U	20 U	20 U	21 U	20 U	20 U	19 U	--	21 U	21 U
N-Nitrosodiphenylamine	ug/kg	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U	190 U	180 U	180 U	200 U	190 U	190 U
Fluorene	ug/kg	18 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	1.8 U	9.9 U	1.9 U	1.9 U
Carbazole	ug/kg	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U	190 U	180 U	180 U	200 U	190 U	190 U
Pentachlorophenol	ug/kg	550 U	560 U	570 U	550 U	560 U	570 U	560 U	570 U	560 U	540 U	540 U	600 U	570 U	570 U
2,4,6-Trichlorophenol	ug/kg	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U	190 U	180 U	180 U	200 U	190 U	190 U
2-Nitroaniline	ug/kg	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U	190 U	180 U	180 U	200 U	190 U	190 U
2-Nitrophenol	ug/kg	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U	190 U	180 U	180 U	200 U	190 U	190 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	18 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	1.8 U	9.9 U	1.9 U	1.9 U
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene (8270C SIM)	ug/kg	18 U	1.9 U	1.9 U	1.8 UJ	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	1.8 U	9.9 U	1.9 U	1.9 U

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

Appendix A6
Semivolatile Organics - Validated Data
HSA-5C

Sample Name		SL-027-SA5C-SS-0.0-0.5	SL-027-SA5C-SB-2.5-3.5	SL-027-SA5C-SB-9.0-10.0	SL-028-SA5C-SB-4.0-5.0	SL-030-SA5C-SB-4.0-5.0	SL-030-SA5C-SB-9.0-10.0	SL-031-SA5C-SB-4.0-5.0	SL-031-SA5C-SB-9.0-10.0	SL-032-SA5C-SS-0.0-0.5	SL-032-SA5C-SB-4.0-5.0	SL-033-SA5C-SS-0.0-0.5	SL-036-SA5C-SS-0.0-0.5	SL-036-SA5C-SB-4.0-5.0	SL-037-SA5C-SB-3.5-4.5
Sample Date		10/25/2010	12/07/2010	12/07/2010	12/06/2010	12/03/2010	12/03/2010	12/03/2010	12/03/2010	10/25/2010	12/03/2010	10/26/2010	01/04/2011	12/02/2010	12/02/2010
SDG		DE004	DE030	DE030	DE029	DE028	DE028	DE028	DE028	DE004	DE028	DE004	DE052	DE027	DE027
Start Depth		0	2.5	9	4	4	9	4	9	0	4	0	0	4	3.5
End Depth		0.5	3.5	10	5	5	10	5	10	0.5	5	0.5	0.5	5	4.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	18 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	1.8 U	9.9 U	1.9 U	1.9 U
2-Chloronaphthalene	ug/kg	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U	190 U	180 U	180 U	200 U	190 U	190 U
3,3`-Dichlorobenzidine	ug/kg	370 U	370 U	380 U	370 U	370 U	380 U	380 U	380 U	370 U	360 U	360 U	400 U	380 U	380 U
Benzidine	ug/kg	3700 U	3700 U	3800 U	3700 UJ	3700 U	3800 U	3800 U	3800 U	3700 U	3600 U	3600 U	4000 U	3800 U	3800 U
2-Methylphenol	ug/kg	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U	190 U	180 U	180 U	200 U	190 U	190 U
2-Chlorophenol	ug/kg	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U	190 U	180 U	180 U	200 U	190 U	190 U
2,4,5-Trichlorophenol	ug/kg	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U	190 U	180 U	180 U	200 U	190 U	190 U
3-Nitroaniline	ug/kg	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U	190 U	180 U	180 U	200 U	190 U	190 U
Benzyl Alcohol	ug/kg	550 U	560 U	570 U	550 U	560 U	570 U	560 U	570 U	560 U	540 U	540 U	600 U	570 U	570 U
2,6-Dinitrotoluene	ug/kg	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U	190 U	180 U	180 U	200 U	190 U	190 U

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

Appendix A6
Semivolatile Organics - Validated Data
HSA-5C

Sample Name		SL-038-SA5C-SS-0.0-0.5	SL-038-SA5C-SB-4.0-5.0	SL-039-SA5C-SS-0.0-0.5	SL-039-SA5C-SB-4.0-5.0	SL-040-SA5C-SB-4.0-5.0	SL-040-SA5C-SB-9.0-10.0	SL-041-SA5C-SS-0.0-0.5	SL-041-SA5C-SB-4.0-5.0	SL-042-SA5C-SS-0.0-0.5	SL-043-SA5C-SS-0.0-0.5	SL-043-SA5C-SB-2.0-3.0	SL-044-SA5C-SB-4.0-5.0	SL-044-SA5C-SB-9.0-10.0	SL-045-SA5C-SS-0.0-0.5
Sample Date		10/25/2010	01/05/2011	01/04/2011	12/02/2010	12/02/2010	12/02/2010	10/25/2010	02/04/2011	11/19/2010	10/25/2010	11/30/2010	12/01/2010	12/01/2010	10/25/2010
SDG		DE004	DE053	DE052	DE027	DE027	DE027	DE004	DE076	DE020	DE004	DE025	DE026	DE026	DE004
Start Depth		0	4	0	4	4	9	0	4	0	0	2	4	9	0
End Depth		0.5	5	0.5	5	5	10	0.5	5	0.5	0.5	3	5	10	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
N-Nitrosodimethylamine (1625C)	ng/kg	--	--	--	64.6	--	--	--	--	--	--	--	870	567	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.8 U	1.9 U	9.5 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U	1.2 J	18 U	1.8 U	1.9 U	1.9 U	1.8 U
2,4-Dinitrotoluene	ug/kg	180 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	170 U	180 U	180 U	190 U	190 U	180 U
Nitrobenzene	ug/kg	180 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	170 U	180 U	180 U	190 U	190 U	180 U
1,4-Dichlorobenzene	ug/kg	180 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	170 U	180 U	180 U	190 U	190 U	180 U
1,2,4-Trichlorobenzene	ug/kg	180 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	170 U	180 U	180 U	190 U	190 U	180 U
1,3-Dichlorobenzene	ug/kg	180 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	170 U	180 U	180 U	190 U	190 U	180 U
Hexachlorobutadiene	ug/kg	180 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	170 U	180 U	180 U	190 U	190 U	180 U
1,2-Dichlorobenzene	ug/kg	180 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	170 U	180 U	180 U	190 U	190 U	180 U
4-Nitroaniline	ug/kg	180 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	170 U	180 U	180 U	190 U	190 U	180 U
4-Nitrophenol	ug/kg	540 U	560 U	570 U	540 U	570 U	580 U	540 U	570 U	520 U	550 U	550 U	580 U	570 U	540 U
4-Bromophenyl Phenyl Ether	ug/kg	180 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	170 U	180 U	180 U	190 U	190 U	180 U
2,4-Dimethylphenol	ug/kg	180 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	170 U	180 U	180 U	190 U	190 U	180 U
4-Methylphenol	ug/kg	180 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	170 U	180 U	180 U	190 U	190 U	180 U
4-Chloroaniline	ug/kg	180 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	170 U	180 U	180 U	190 U	190 U	180 U
3,5-Dimethylphenol	ug/kg	180 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	170 U	180 U	180 U	190 U	190 U	180 U
Phenol	ug/kg	180 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	170 U	180 U	180 U	190 U	190 U	180 U
Bis(2-Chloroethyl) ether	ug/kg	180 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	170 U	180 U	180 U	190 U	190 U	180 U
Bis(2-Chloroethoxy) methane	ug/kg	180 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	170 U	180 U	180 U	190 U	190 U	180 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	--	--	380 U	--	--	--	21 J	--	170 J	--	--	--	--	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	21	20 U	--	19 U	21 U	21 U	--	21 U	--	88 J	20 U	21 U	20 U	8.6 J
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	190 U	--	--	--	--	--	--	180 U	--	--	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	19 U	20 U	--	19 U	21 U	21 U	19 UJ	21 U	19 U	--	20 U	21 U	20 U	19 U
Hexachlorobenzene	ug/kg	180 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	170 U	180 U	180 U	190 U	190 U	180 U
Anthracene	ug/kg	1.8 U	1.9 U	9.5 U	1.8 U	1.9 U	1.9 U	1.8 U	1.2 J	0.51 J	18 U	1.8 U	1.9 U	1.9 U	0.96 J
2,4-Dichlorophenol	ug/kg	180 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	170 U	180 U	180 U	190 U	190 U	180 U
1,2-Diphenylhydrazine	ug/kg	180 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	170 U	180 U	180 U	190 U	190 U	180 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	2.0	1.9 U	6.2 J	1.8 U	1.9 U	1.9 U	1.8 UJ	1.6 J	7.5 J	17 J	1.8 U	1.9 U	1.9 U	6.0
Dimethylphthalate (8270C)	ug/kg	--	--	190 U	--	--	--	--	--	--	180 U	--	--	--	--
Dimethylphthalate (8270C SIM)	ug/kg	19 U	20 U	--	19 U	21 U	21 U	19 U	21 U	19 U	--	20 U	21 U	20 U	19 U
Dibenzofuran	ug/kg	180 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	170 U	180 U	180 U	190 U	190 U	180 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	95 J	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	0.75 J	1.9 U	8.6 J	1.8 U	1.9 U	1.9 U	1.8 UJ	1.4 J	--	18 U	1.8 U	1.9 U	1.9 U	1.1 J
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	0.76 J	1.9 U	9.5 U	1.8 U	1.9 U	1.9 U	1.8 UJ	1.3 J	6.1	18 U	1.8 U	1.9 U	1.9 U	1.2 J
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	36 J	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	1.8	1.9 U	--	1.8 U	1.9 U	1.9 U	1.8 UJ	1.4 J	7.2	15 J	1.8 U	1.9 U	1.9 U	5.1
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	2.3	1.9 U	9.5 U	1.8 U	1.9 U	1.9 U	1.8 UJ	1.6 J	2.9	17 J	1.8 U	1.9 U	1.9 U	4.7
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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R – Result is rejected

Appendix A6
Semivolatile Organics - Validated Data
HSA-5C

Sample Name		SL-038-SA5C-SS-0.0-0.5	SL-038-SA5C-SB-4.0-5.0	SL-039-SA5C-SS-0.0-0.5	SL-039-SA5C-SB-4.0-5.0	SL-040-SA5C-SB-4.0-5.0	SL-040-SA5C-SB-9.0-10.0	SL-041-SA5C-SS-0.0-0.5	SL-041-SA5C-SB-4.0-5.0	SL-042-SA5C-SS-0.0-0.5	SL-043-SA5C-SS-0.0-0.5	SL-043-SA5C-SB-2.0-3.0	SL-044-SA5C-SB-4.0-5.0	SL-044-SA5C-SB-9.0-10.0	SL-045-SA5C-SS-0.0-0.5
Sample Date		10/25/2010	01/05/2011	01/04/2011	12/02/2010	12/02/2010	12/02/2010	10/25/2010	02/04/2011	11/19/2010	10/25/2010	11/30/2010	12/01/2010	12/01/2010	10/25/2010
SDG		DE004	DE053	DE052	DE027	DE027	DE027	DE004	DE076	DE020	DE004	DE025	DE026	DE026	DE004
Start Depth		0	4	0	4	4	9	0	4	0	0	2	4	9	0
End Depth		0.5	5	0.5	5	5	10	0.5	5	0.5	0.5	3	5	10	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Benzo(k)fluoranthene (8270C SIM)	ug/kg	8.0	1.9 U	9.5 U	1.8 U	1.9 U	1.9 U	1.8 UJ	1.4 J	11	18 U	1.8 U	1.9 U	1.9 U	4.0
Acenaphthylene	ug/kg	1.8 U	1.9 U	9.5 U	1.8 U	1.9 U	1.9 U	1.8 U	1.2 J	1.2 J	18 U	1.8 U	1.9 U	1.9 U	1.8 U
Chrysene (8270C)	ug/kg	--	--	--	--	--	--	--	--	22 J	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	2.1	1.9 U	36	1.8 U	1.9 U	1.9 U	1.8 UJ	1.6 J	--	13 J	1.8 U	1.9 U	1.9 U	6.7
bis(2-Chloroisopropyl) ether	ug/kg	180 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	170 U	180 U	180 U	190 U	190 U	180 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	69 J	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	1.0 J	1.9 U	12	1.8 U	1.9 U	1.9 U	1.8 UJ	1.3 J	--	18 U	1.8 U	1.9 U	1.9 U	3.0
2,4-Dinitrophenol	ug/kg	2200 U	2200 U	2300 U	2200 U	2300 U	2300 U	2100 U	1100 U	2100 U	2200 U	2200 U	2300 U	2300 U	2200 U
4,6-Dinitro-2-Methylphenol	ug/kg	540 U	560 U	570 U	540 U	570 U	580 U	540 U	570 U	520 U	550 U	550 U	580 U	570 U	540 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	1.8 U	1.9 U	5.6 J	1.8 U	1.9 U	1.9 U	1.8 U	1.3 J	5.5 J	18 U	1.8 U	1.9 U	1.9 U	1.8 U
Benzo(a)anthracene (8270C)	ug/kg	--	--	36 J	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	0.90 J	1.9 U	--	1.8 U	1.9 U	1.9 U	1.8 UJ	1.6 J	3.0	18 U	1.8 U	1.9 U	1.9 U	3.7
4-Chloro-3-Methylphenol	ug/kg	180 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	170 U	180 U	180 U	190 U	190 U	180 U
N-Nitroso-Di-N-Propylamine	ug/kg	180 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	170 U	180 U	180 U	190 U	190 U	180 U
Aniline	ug/kg	540 U	560 U	570 U	540 U	570 U	580 U	540 U	570 U	520 U	550 U	550 U	580 U	570 U	540 U
Benzoic Acid	ug/kg	540 U	560 U	570 U	540 U	570 U	580 U	540 U	570 U	520 U	550 U	550 U	580 U	570 U	540 U
Hexachloroethane	ug/kg	180 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	170 U	180 U	180 U	190 U	190 U	180 U
4-Chlorophenyl Phenylether	ug/kg	180 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	170 U	180 U	180 U	190 U	190 U	180 U
Hexachlorocyclopentadiene	ug/kg	540 U	560 U	570 U	540 U	570 U	580 U	540 U	570 U	520 U	550 U	550 U	580 U	570 U	540 U
Isophorone	ug/kg	180 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	170 U	180 U	180 U	190 U	190 U	180 U
Acenaphthene	ug/kg	1.8 U	1.9 U	9.5 U	1.8 U	1.9 U	1.9 U	1.8 U	1.2 J	1.7 U	18 U	1.8 U	1.9 U	1.9 U	1.8 U
Diethylphthalate (8270C)	ug/kg	--	--	190 U	--	--	--	--	--	--	180 U	--	--	--	--
Diethylphthalate (8270C SIM)	ug/kg	14 J	20 U	--	19 U	21 U	21 U	19 UJ	21 U	19 UJ	--	20 U	21 U	20 U	19 U
Di-n-Butylphthalate (8270C)	ug/kg	--	--	190 U	--	--	--	--	--	--	180 U	--	--	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	19 U	20 U	--	19 U	21 U	21 U	19 U	21 U	19 U	--	20 U	21 U	20 U	19 U
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	1.1 J	1.9 U	4.3 J	1.8 U	1.9 U	1.9 U	1.8 U	1.6 J	1.6 J	18 U	1.8 U	1.9 U	1.9 U	0.72 J
Butylbenzylphthalate (8270C)	ug/kg	--	--	190 U	--	--	--	--	--	--	180 U	--	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	19 U	20 U	--	19 U	21 U	21 U	19 UJ	21 U	9.0 J	--	20 U	21 U	20 U	19 U
N-Nitrosodiphenylamine	ug/kg	180 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	170 U	180 U	180 U	190 U	190 U	180 U
Fluorene	ug/kg	1.8 U	1.9 U	9.5 U	1.8 U	1.9 U	1.9 U	1.8 U	1.4 J	1.1 J	18 U	1.8 U	1.9 U	1.9 U	1.8 U
Carbazole	ug/kg	180 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	170 U	180 U	180 U	190 U	190 U	180 U
Pentachlorophenol	ug/kg	540 U	560 U	570 U	540 U	570 U	580 U	540 U	570 U	520 U	550 U	550 U	580 U	570 U	540 U
2,4,6-Trichlorophenol	ug/kg	180 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	170 U	180 U	180 U	190 U	190 U	180 U
2-Nitroaniline	ug/kg	180 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	170 U	180 U	180 U	190 U	190 U	180 U
2-Nitrophenol	ug/kg	180 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	170 U	180 U	180 U	190 U	190 U	180 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	1.8 U	1.9 U	9.5 U	1.8 U	1.9 U	1.9 U	1.8 U	1.1 J	0.84 J	18 U	1.8 U	1.9 U	1.9 U	1.8 U
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene (8270C SIM)	ug/kg	1.8 U	1.9 U	4.0 J	1.8 U	1.9 U	1.9 U	1.8 U	1.0 J	1.1 J	18 U	1.8 U	1.9 U	1.9 U	1.8 U

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

Appendix A6
Semivolatile Organics - Validated Data
HSA-5C

Sample Name		SL-038-SA5C-SS-0.0-0.5	SL-038-SA5C-SB-4.0-5.0	SL-039-SA5C-SS-0.0-0.5	SL-039-SA5C-SB-4.0-5.0	SL-040-SA5C-SB-4.0-5.0	SL-040-SA5C-SB-9.0-10.0	SL-041-SA5C-SS-0.0-0.5	SL-041-SA5C-SB-4.0-5.0	SL-042-SA5C-SS-0.0-0.5	SL-043-SA5C-SS-0.0-0.5	SL-043-SA5C-SB-2.0-3.0	SL-044-SA5C-SB-4.0-5.0	SL-044-SA5C-SB-9.0-10.0	SL-045-SA5C-SS-0.0-0.5
Sample Date		10/25/2010	01/05/2011	01/04/2011	12/02/2010	12/02/2010	12/02/2010	10/25/2010	02/04/2011	11/19/2010	10/25/2010	11/30/2010	12/01/2010	12/01/2010	10/25/2010
SDG		DE004	DE053	DE052	DE027	DE027	DE027	DE004	DE076	DE020	DE004	DE025	DE026	DE026	DE004
Start Depth		0	4	0	4	4	9	0	4	0	0	2	4	9	0
End Depth		0.5	5	0.5	5	5	10	0.5	5	0.5	0.5	3	5	10	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	1.8 U	1.9 U	9.5 U	1.8 U	1.9 U	1.9 U	1.8 U	1.0 J	0.88 J	18 U	1.8 U	1.9 U	1.9 U	1.8 U
2-Chloronaphthalene	ug/kg	180 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	170 U	180 U	180 U	190 U	190 U	180 U
3,3`-Dichlorobenzidine	ug/kg	360 U	370 U	380 U	360 U	380 U	380 U	360 U	380 U	350 U	370 U	370 U	390 U	380 U	360 U
Benzidine	ug/kg	3600 U	3700 U	3800 U	3600 U	3800 U	3800 U	3600 UJ	3800 R	3500 U	3700 U	3700 U	3900 U	3800 U	3600 U
2-Methylphenol	ug/kg	180 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	170 U	180 U	180 U	190 U	190 U	180 U
2-Chlorophenol	ug/kg	180 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	170 U	180 U	180 U	190 U	190 U	180 U
2,4,5-Trichlorophenol	ug/kg	180 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	170 U	180 U	180 U	190 U	190 U	180 U
3-Nitroaniline	ug/kg	180 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	170 U	180 U	180 U	190 U	190 U	180 U
Benzyl Alcohol	ug/kg	540 U	560 U	570 U	540 U	570 U	580 U	540 U	570 U	520 U	550 U	550 U	580 U	570 U	540 U
2,6-Dinitrotoluene	ug/kg	180 U	190 U	190 U	180 U	190 U	190 U	180 U	190 U	170 U	180 U	180 U	190 U	190 U	180 U

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Appendix A6
Semivolatile Organics - Validated Data
HSA-5C

Sample Name		SL-045-SA5C-SB-4.0-5.0	SL-045-SA5C-SB-8.0-9.0	SL-046-SA5C-SB-4.0-5.0	SL-046-SA5C-SB-9.0-10.0	SL-047-SA5C-SS-0.0-0.5	SL-047-SA5C-SB-4.0-5.0	SL-049-SA5C-SS-0.0-0.5	SL-050-SA5C-SS-0.0-0.5	SL-050-SA5C-SB-4.0-5.0	SL-050-SA5C-SB-9.0-10.0	SL-051-SA5C-SS-0.0-0.5	SL-051-SA5C-SB-3.0-4.0	SL-052-SA5C-SS-0.0-0.5	SL-052-SA5C-SB-2.5-3.0
Sample Date		12/01/2010	12/01/2010	12/01/2010	12/01/2010	10/25/2010	12/01/2010	10/22/2010	10/22/2010	11/22/2010	11/22/2010	10/21/2010	11/19/2010	10/21/2010	11/19/2010
SDG		DE026	DE026	DE026	DE026	DE004	DE026	DE003	DE003	DE021	DE021	DX002	DE020	DX002	DE020
Start Depth		4	8	4	9	0	4	0	0	4	9	0	3	0	2.5
End Depth		5	9	5	10	0.5	5	0.5	0.5	5	10	0.5	4	0.5	3
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
N-Nitrosodimethylamine (1625C)	ng/kg	--	--	289	243	--	--	--	--	110 U	109 U	--	--	--	60.1 U
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.9 U	1.8 U	13	1.8 U	1.8 U	1.9 U	18 U	1.8 U	14 J	1.9 U	1.9 U	1.9 U	1.8 U	1.8 U
2,4-Dinitrotoluene	ug/kg	190 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	190 U	190 U	190 U	180 U	180 U
Nitrobenzene	ug/kg	190 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	190 U	190 U	190 U	180 U	180 U
1,4-Dichlorobenzene	ug/kg	190 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	190 U	190 U	190 U	180 U	180 U
1,2,4-Trichlorobenzene	ug/kg	190 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	190 U	190 U	190 U	180 U	180 U
1,3-Dichlorobenzene	ug/kg	190 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	190 U	190 U	190 U	180 U	180 U
Hexachlorobutadiene	ug/kg	190 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	190 U	190 U	190 U	180 U	180 U
1,2-Dichlorobenzene	ug/kg	190 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	190 U	190 U	190 U	180 U	180 U
4-Nitroaniline	ug/kg	190 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	190 U	190 U	190 U	180 U	180 U
4-Nitrophenol	ug/kg	560 U	540 U	540 U	540 U	540 U	580 U	550 U	550 U	550 U	560 U	560 U	560 U	540 U	550 U
4-Bromophenyl Phenyl Ether	ug/kg	190 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	190 U	190 U	190 U	180 U	180 U
2,4-Dimethylphenol	ug/kg	190 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	190 U	190 U	190 U	180 U	180 U
4-Methylphenol	ug/kg	190 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	190 U	190 U	190 U	180 U	180 U
4-Chloroaniline	ug/kg	190 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	190 U	190 U	190 U	180 U	180 U
3,5-Dimethylphenol	ug/kg	190 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	190 U	190 U	190 U	180 U	180 U
Phenol	ug/kg	190 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	190 U	190 U	190 U	180 U	180 U
Bis(2-Chloroethyl) ether	ug/kg	190 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	190 U	190 U	190 U	180 U	180 U
Bis(2-Chloroethoxy) methane	ug/kg	190 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	190 U	190 U	190 U	180 U	180 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	--	--	--	--	--	--	100 J	--	36 J	39 J	24 J	24 J	--	28 J
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	20 U	19 U	19 U	13 J	6.8 J	21 U	--	20 U	--	--	--	--	7.3 J	--
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	--	--	--	--	180 U	--	--	--	--	--	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	20 U	19 U	19 U	20 U	19 U	21 U	--	20 U	20 U	20 U	20 UJ	20 U	19 U	20 U
Hexachlorobenzene	ug/kg	190 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	190 U	190 U	190 U	180 U	180 U
Anthracene	ug/kg	1.9 U	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U	11 J	1.2 J	2.7	1.9 U	0.45 J	1.9 U	1.8 U	1.8 U
2,4-Dichlorophenol	ug/kg	190 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	190 U	190 U	190 U	180 U	180 U
1,2-Diphenylhydrazine	ug/kg	190 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	190 U	190 U	190 U	180 U	180 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	1.9 U	1.8 U	1.8 U	1.8 U	1.2 J	1.9 U	140	9.2	2.1	1.9 U	11 J	1.9 U	1.0 J	1.8 U
Dimethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	180 U	--	--	--	--	--	--	--
Dimethylphthalate (8270C SIM)	ug/kg	20 U	19 U	19 U	20 U	19 U	21 U	--	20 U	20 U	20 U	20 U	20 U	19 U	20 U
Dibenzofuran	ug/kg	190 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	190 U	190 U	190 U	180 U	180 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--	140 J	--	--	--	--	35 J	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	1.9 U	1.8 U	1.8 U	1.8 U	1.0 J	1.9 U	--	1.2 J	2.1	1.9 U	2.4 J	--	1.8 U	1.8 U
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	--	95 J	--	--	--	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	1.9 U	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U	--	1.2 J	1.8	1.9 U	2.0 J	1.9 U	1.8 U	1.8 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	1.9 U	1.8 U	0.79 J	1.8 U	2.5	1.9 U	150	5.6	2.5	1.9 U	12 J	1.9 U	1.1 J	1.8 U
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	19 J	--	--	20 J	--	--	--
Fluoranthene (8270C SIM)	ug/kg	1.9 U	1.8 U	1.8 U	1.8 U	1.2 J	1.9 U	120	--	2.4	1.9 U	--	1.9 U	0.74 J	1.8 U
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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

Appendix A6
Semivolatile Organics - Validated Data
HSA-5C

Sample Name		SL-045-SA5C-SB-4.0-5.0	SL-045-SA5C-SB-8.0-9.0	SL-046-SA5C-SB-4.0-5.0	SL-046-SA5C-SB-9.0-10.0	SL-047-SA5C-SS-0.0-0.5	SL-047-SA5C-SB-4.0-5.0	SL-049-SA5C-SS-0.0-0.5	SL-050-SA5C-SS-0.0-0.5	SL-050-SA5C-SB-4.0-5.0	SL-050-SA5C-SB-9.0-10.0	SL-051-SA5C-SS-0.0-0.5	SL-051-SA5C-SB-3.0-4.0	SL-052-SA5C-SS-0.0-0.5	SL-052-SA5C-SB-2.5-3.0
Sample Date		12/01/2010	12/01/2010	12/01/2010	12/01/2010	10/25/2010	12/01/2010	10/22/2010	10/22/2010	11/22/2010	11/22/2010	10/21/2010	11/19/2010	10/21/2010	11/19/2010
SDG		DE026	DE026	DE026	DE026	DE004	DE026	DE003	DE003	DE021	DE021	DX002	DE020	DX002	DE020
Start Depth		4	8	4	9	0	4	0	0	4	9	0	3	0	2.5
End Depth		5	9	5	10	0.5	5	0.5	0.5	5	10	0.5	4	0.5	3
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Benzo(k)fluoranthene (8270C SIM)	ug/kg	1.9 U	1.8 U	1.8 U	1.8 U	0.72 J	1.9 U	60	2.3	2.8	1.9 U	5.4 J	1.9 U	1.8 U	1.8 U
Acenaphthylene	ug/kg	1.9 U	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U	18 U	1.8 U	0.93 J	1.9 U	1.9 U	1.9 U	1.8 U	1.8 U
Chrysene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	1.9 U	1.8 U	0.50 J	1.8 U	1.4 J	1.9 U	100	4.3	2.4	1.9 U	11 J	1.9 U	0.82 J	1.8 U
bis(2-Chloroisopropyl) ether	ug/kg	190 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	190 U	190 U	190 U	180 U	180 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--	100 J	--	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	1.9 U	1.8 U	1.8 U	1.8 U	1.3 J	1.9 U	--	3.7	2.4	1.9 U	7.3 J	1.9 U	1.8 U	1.8 U
2,4-Dinitrophenol	ug/kg	2200 U	2200 U	2200 U	2200 U	2100 U	2300 U	2200 U	2200 U	2200 U	2300 U	2200 U	2200 U	2100 U	2200 U
4,6-Dinitro-2-Methylphenol	ug/kg	560 U	540 U	540 U	540 U	540 U	580 U	550 U	550 U	550 U	560 U	560 U	560 U	540 U	550 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	1.9 U	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U	11 J	0.80 J	1.6 J	1.9 U	0.89 J	1.9 U	1.8 U	1.8 U
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	1.9 U	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U	81	3.6	2.0	1.9 U	7.9 J	1.9 U	1.8 U	1.8 U
4-Chloro-3-Methylphenol	ug/kg	190 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	190 U	190 U	190 U	180 U	180 U
N-Nitroso-Di-N-Propylamine	ug/kg	190 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	190 U	190 U	190 U	180 U	180 U
Aniline	ug/kg	560 U	540 U	540 U	540 U	540 U	580 U	550 U	550 U	550 U	560 U	560 U	560 U	540 U	550 U
Benzoic Acid	ug/kg	560 U	540 U	540 U	540 U	540 U	580 U	550 U	550 U	550 U	560 U	560 U	560 U	540 U	550 U
Hexachloroethane	ug/kg	190 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	190 U	190 U	190 U	180 U	180 U
4-Chlorophenyl Phenylether	ug/kg	190 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	190 U	190 U	190 U	180 U	180 U
Hexachlorocyclopentadiene	ug/kg	560 U	540 U	540 U	540 U	540 U	580 U	550 U	550 U	550 U	560 U	560 U	560 U	540 U	550 U
Isophorone	ug/kg	190 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	190 U	190 U	190 U	180 U	180 U
Acenaphthene	ug/kg	1.9 U	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U	18 U	0.91 J	1.0 J	1.9 U	1.9 U	1.9 U	1.8 U	1.8 U
Diethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	180 U	--	--	--	--	--	--	--
Diethylphthalate (8270C SIM)	ug/kg	20 U	19 U	19 U	20 U	19 U	21 U	--	20 U	20 U	20 U	20 U	20 U	19 U	20 U
Di-n-Butylphthalate (8270C)	ug/kg	--	--	--	--	--	--	29 J	--	--	--	--	--	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	20 U	19 U	19 U	20 U	19 U	21 U	--	20 U	20 U	20 U	20 U	20 U	19 U	20 U
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	45 J	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	1.9 U	1.8 U	0.80 J	1.8 U	1.8 U	1.9 U	--	6.0	2.9	1.9 U	2.5 J	1.9 U	1.8 U	1.8 U
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	--	--	--	180 U	--	--	--	--	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	20 U	19 U	19 U	20 U	19 U	21 U	--	20 U	20 U	20 U	20 U	20 U	19 U	20 U
N-Nitrosodiphenylamine	ug/kg	190 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	190 U	190 U	190 U	180 U	180 U
Fluorene	ug/kg	1.9 U	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U	18 U	1.8 U	2.3	1.9 U	1.9 U	1.9 U	1.8 U	1.8 U
Carbazole	ug/kg	190 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	190 U	190 U	190 U	180 U	180 U
Pentachlorophenol	ug/kg	560 U	540 U	540 U	540 U	540 U	580 U	550 U	550 U	550 U	560 U	560 U	560 U	540 U	550 U
2,4,6-Trichlorophenol	ug/kg	190 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	190 U	190 U	190 U	180 U	180 U
2-Nitroaniline	ug/kg	190 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	190 U	190 U	190 U	180 U	180 U
2-Nitrophenol	ug/kg	190 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	190 U	190 U	190 U	180 U	180 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	1.9 U	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U	18 U	1.8 U	1.8 U	1.9 U	1.9 U	1.9 U	1.8 U	1.8 U
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene (8270C SIM)	ug/kg	1.9 U	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U	18 U	1.8 U	1.8 U	1.9 U	1.9 U	1.9 U	1.8 U	1.8 U

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Appendix A6
Semivolatile Organics - Validated Data
HSA-5C

Sample Name		SL-045-SA5C-SB-4.0-5.0	SL-045-SA5C-SB-8.0-9.0	SL-046-SA5C-SB-4.0-5.0	SL-046-SA5C-SB-9.0-10.0	SL-047-SA5C-SS-0.0-0.5	SL-047-SA5C-SB-4.0-5.0	SL-049-SA5C-SS-0.0-0.5	SL-050-SA5C-SS-0.0-0.5	SL-050-SA5C-SB-4.0-5.0	SL-050-SA5C-SB-9.0-10.0	SL-051-SA5C-SS-0.0-0.5	SL-051-SA5C-SB-3.0-4.0	SL-052-SA5C-SS-0.0-0.5	SL-052-SA5C-SB-2.5-3.0
Sample Date		12/01/2010	12/01/2010	12/01/2010	12/01/2010	10/25/2010	12/01/2010	10/22/2010	10/22/2010	11/22/2010	11/22/2010	10/21/2010	11/19/2010	10/21/2010	11/19/2010
SDG		DE026	DE026	DE026	DE026	DE004	DE026	DE003	DE003	DE021	DE021	DX002	DE020	DX002	DE020
Start Depth		4	8	4	9	0	4	0	0	4	9	0	3	0	2.5
End Depth		5	9	5	10	0.5	5	0.5	0.5	5	10	0.5	4	0.5	3
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	1.9 U	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U	18 U	1.8 U	0.86 J	1.9 U	1.9 U	1.9 U	1.8 U	1.8 U
2-Chloronaphthalene	ug/kg	190 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	190 U	190 U	190 U	180 U	180 U
3,3`-Dichlorobenzidine	ug/kg	370 U	360 U	360 U	360 U	360 U	390 U	370 U	370 U	360 U	380 U	370 U	370 U	360 U	370 U
Benzidine	ug/kg	3700 U	3600 U	3600 R	3600 U	3600 U	3900 U	3700 U	3700 U	3600 U	3800 U	3700 R	3700 U	3600 U	3700 U
2-Methylphenol	ug/kg	190 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	190 U	190 U	190 U	180 U	180 U
2-Chlorophenol	ug/kg	190 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	190 U	190 U	190 U	180 U	180 U
2,4,5-Trichlorophenol	ug/kg	190 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	190 U	190 U	190 U	180 U	180 U
3-Nitroaniline	ug/kg	190 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	190 U	190 U	190 U	180 U	180 U
Benzyl Alcohol	ug/kg	560 U	540 U	540 U	540 U	540 U	580 U	550 U	550 U	550 U	560 U	560 U	560 U	540 U	550 U
2,6-Dinitrotoluene	ug/kg	190 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	190 U	190 U	190 U	180 U	180 U

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Appendix A6
Semivolatile Organics - Validated Data
HSA-5C

Sample Name		SL-053-SA5C-SS-0.0-0.5	SL-053-SA5C-SB-3.0-4.0	SL-054-SA5C-SS-0.0-0.5	SL-054-SA5C-SB-3.0-4.0	SL-056-SA5C-SS-0.0-0.5	SL-056-SA5C-SB-4.0-5.0	SL-057-SA5C-SS-0.0-0.5	SL-057-SA5C-SB-4.0-5.0	SL-057-SA5C-SB-7.0-8.0	SL-058-SA5C-SB-3.0-4.0	SL-059-SA5C-SB-1.0-2.0	SL-059-SA5C-SB-9.0-10.0	SL-060-SA5C-SS-0.0-0.5	SL-060-SA5C-SB-4.0-5.0
Sample Date		10/22/2010	11/22/2010	10/21/2010	11/18/2010	10/22/2010	01/04/2011	10/22/2010	11/30/2010	11/30/2010	11/29/2010	11/29/2010	11/29/2010	10/22/2010	11/23/2010
SDG		DE003	DE021	DX002	DE019	DE003	DE052	DE003	DE025	DE025	DX011	DX011	DX011	DE003	DE022
Start Depth		0	3	0	3	0	4	0	4	7	3	1	9	0	4
End Depth		0.5	4	0.5	4	0.5	5	0.5	5	8	4	2	10	0.5	5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
N-Nitrosodimethylamine (1625C)	ng/kg	--	38.4 U	--	45.1 U	--	--	--	--	--	--	157	425 J	--	124 U
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.8 U	1.8 U	1.9 U	1.9 U	20 U	2.0 U	1.8 U	1.9 U	1.8 U	1.7 U	1.8 U	2.0 U	1.8 U	1.8 U
2,4-Dinitrotoluene	ug/kg	180 U	180 U	190 U	190 U	200 R	200 U	180 U	190 U	180 U	170 U	180 U	200 U	180 U	180 U
Nitrobenzene	ug/kg	180 U	180 U	190 U	190 U	200 R	200 U	180 U	190 U	180 U	170 U	180 U	200 U	180 U	180 U
1,4-Dichlorobenzene	ug/kg	180 U	180 U	190 U	190 U	200 R	200 U	180 U	190 U	180 U	170 U	180 U	200 U	180 U	180 U
1,2,4-Trichlorobenzene	ug/kg	180 U	180 U	190 U	190 U	200 R	200 U	180 U	190 U	180 U	170 U	180 U	200 U	180 U	180 U
1,3-Dichlorobenzene	ug/kg	180 U	180 U	190 U	190 U	200 R	200 U	180 U	190 U	180 U	170 U	180 U	200 U	180 U	180 U
Hexachlorobutadiene	ug/kg	180 U	180 U	190 U	190 U	200 R	200 U	180 U	190 U	180 U	170 U	180 U	200 U	180 U	180 U
1,2-Dichlorobenzene	ug/kg	180 U	180 U	190 U	190 U	200 R	200 U	180 U	190 U	180 U	170 U	180 U	200 U	180 U	180 U
4-Nitroaniline	ug/kg	180 U	180 U	190 U	190 U	200 R	200 U	180 U	190 U	180 U	170 U	180 U	200 U	180 U	180 U
4-Nitrophenol	ug/kg	550 U	530 U	560 U	560 U	590 R	590 U	530 U	560 U	540 U	520 U	550 U	600 U	540 U	530 U
4-Bromophenyl Phenyl Ether	ug/kg	180 U	180 U	190 U	190 U	200 R	200 U	180 U	190 U	180 U	170 U	180 U	200 U	180 U	180 U
2,4-Dimethylphenol	ug/kg	180 U	180 U	190 U	190 U	200 R	200 U	180 U	190 U	180 U	170 U	180 U	200 U	180 U	180 U
4-Methylphenol	ug/kg	180 U	180 U	190 U	190 U	200 R	200 U	180 U	190 U	180 U	170 U	180 U	200 U	180 U	180 U
4-Chloroaniline	ug/kg	180 U	180 U	190 U	190 U	200 R	200 U	180 U	190 U	180 U	170 U	180 U	200 U	180 U	180 U
3,5-Dimethylphenol	ug/kg	180 U	180 U	190 U	190 U	200 U	200 U	180 U	190 U	180 U	170 U	180 U	200 U	180 U	180 U
Phenol	ug/kg	180 U	180 U	190 U	190 U	200 R	200 U	180 U	190 U	180 U	170 U	180 U	200 U	180 U	180 U
Bis(2-Chloroethyl) ether	ug/kg	180 U	180 U	190 U	190 U	200 R	200 U	180 U	190 U	180 U	170 U	180 U	200 U	180 U	180 U
Bis(2-Chloroethoxy) methane	ug/kg	180 U	180 U	190 U	190 U	200 R	200 U	180 U	190 U	180 U	170 U	180 U	200 U	180 U	180 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	24 J	29 J	--	--	--	--	67 J	--	--	--	--	--	46 J	21 J
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	--	--	16 J	20 U	180 J	21 U	--	20 U	19 U	19 U	20 U	22 U	--	--
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	--	--	200 R	--	--	--	--	--	--	--	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	20 U	19 U	20 UJ	20 U	--	21 U	19 U	20 U	19 U	19 U	20 U	22 U	19 U	19 U
Hexachlorobenzene	ug/kg	180 U	180 U	190 U	190 U	200 R	200 U	180 U	190 U	180 U	170 U	180 U	200 U	180 U	180 U
Anthracene	ug/kg	1.8 U	1.8 U	0.39 J	1.9 U	10 J	2.0 U	0.46 J	1.9 U	1.8 U	1.7 U	1.8 U	2.0 U	1.8 U	1.8 U
2,4-Dichlorophenol	ug/kg	180 U	180 U	190 U	190 U	200 R	200 U	180 U	190 U	180 U	170 U	180 U	200 U	180 U	180 U
1,2-Diphenylhydrazine	ug/kg	180 U	180 U	190 U	190 U	200 U	200 U	180 U	190 U	180 U	170 U	180 U	200 U	180 U	180 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	0.98 J	1.8 U	6.3	1.9 U	150	2.0 U	3.4	1.9 U	1.8 U	1.7 U	0.95 J	2.0 U	1.2 J	1.8 U
Dimethylphthalate (8270C)	ug/kg	--	--	--	--	200 R	--	--	--	--	--	--	--	--	--
Dimethylphthalate (8270C SIM)	ug/kg	20 U	19 U	20 U	20 U	--	21 U	19 U	20 U	19 U	19 U	20 U	22 U	19 U	19 U
Dibenzofuran	ug/kg	180 U	180 U	190 U	190 U	200 R	200 U	180 U	190 U	180 U	170 U	180 U	200 U	180 U	180 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	1.8 U	1.8 U	1.1 J	1.9 U	93	2.0 U	3.9	1.9 U	1.8 U	0.82 J	0.92 J	2.0 U	0.87 J	1.8 U
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	1.8 U	1.8 U	0.84 J	1.9 U	53	2.0 U	1.7 J	1.9 U	1.8 U	1.7 U	1.8 U	2.0 U	1.8 U	1.8 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	0.82 J	1.8 U	4.4 J	1.9 U	170	2.0 U	4.1	1.9 U	1.8 U	1.0 J	2.0	1.3 J	1.7 J	1.8 U
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	0.78 J	1.8 U	4.2	1.9 U	100	2.0 U	2.3	1.9 U	1.8 U	1.7 U	1.8 U	2.0 U	0.98 J	1.8 U
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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

Appendix A6
Semivolatile Organics - Validated Data
HSA-5C

Sample Name		SL-053-SA5C-SS-0.0-0.5	SL-053-SA5C-SB-3.0-4.0	SL-054-SA5C-SS-0.0-0.5	SL-054-SA5C-SB-3.0-4.0	SL-056-SA5C-SS-0.0-0.5	SL-056-SA5C-SB-4.0-5.0	SL-057-SA5C-SS-0.0-0.5	SL-057-SA5C-SB-4.0-5.0	SL-057-SA5C-SB-7.0-8.0	SL-058-SA5C-SB-3.0-4.0	SL-059-SA5C-SB-1.0-2.0	SL-059-SA5C-SB-9.0-10.0	SL-060-SA5C-SS-0.0-0.5	SL-060-SA5C-SB-4.0-5.0
Sample Date		10/22/2010	11/22/2010	10/21/2010	11/18/2010	10/22/2010	01/04/2011	10/22/2010	11/30/2010	11/30/2010	11/29/2010	11/29/2010	11/29/2010	10/22/2010	11/23/2010
SDG		DE003	DE021	DX002	DE019	DE003	DE052	DE003	DE025	DE025	DX011	DX011	DX011	DE003	DE022
Start Depth		0	3	0	3	0	4	0	4	7	3	1	9	0	4
End Depth		0.5	4	0.5	4	0.5	5	0.5	5	8	4	2	10	0.5	5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Benzo(k)fluoranthene (8270C SIM)	ug/kg	1.8 U	1.8 U	2.1 J	1.9 U	41	2.0 U	1.5 J	1.9 U	1.8 U	1.7 U	1.6 J	2.0 U	1.8 U	1.8 U
Acenaphthylene	ug/kg	1.8 U	1.8 U	1.9 U	1.9 U	20 U	2.0 U	1.8 U	1.9 U	1.8 U	1.7 U	1.8 U	2.0 U	1.8 U	1.8 U
Chrysene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	0.71 J	1.8 U	3.9	1.9 U	160	2.0 U	2.7	1.9 U	1.8 U	1.3 J	3.0	1.9 J	1.4 J	1.8 U
bis(2-Chloroisopropyl) ether	ug/kg	180 U	180 U	190 U	190 U	200 R	200 U	180 U	190 U	180 U	170 U	180 U	200 U	180 U	180 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	1.8 U	1.8 U	2.6 J	1.9 U	130	2.0 U	2.7	1.9 U	1.8 U	0.81 J	1.4 J	0.97 J	0.82 J	1.8 U
2,4-Dinitrophenol	ug/kg	2200 U	2100 U	2200 U	2300 U	2400 R	2300 U	2100 U	2200 U	2200 U	2100 U	2200 U	2400 U	2200 U	2100 U
4,6-Dinitro-2-Methylphenol	ug/kg	550 U	530 U	560 U	560 U	590 R	590 U	530 U	560 U	540 U	520 U	550 U	600 U	540 U	530 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	1.8 U	1.8 U	1.9 UJ	1.9 U	22	2.0 U	0.92 J	1.9 U	1.8 U	1.7 U	1.8 U	2.0 U	1.8 U	1.8 U
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	1.8 U	1.8 U	2.8	1.9 U	77	2.0 U	1.8	1.9 U	1.8 U	1.7 U	1.8 U	2.0 U	1.8 U	1.8 U
4-Chloro-3-Methylphenol	ug/kg	180 U	180 U	190 U	190 U	200 R	200 U	180 U	190 U	180 U	170 U	180 U	200 U	180 U	180 U
N-Nitroso-Di-N-Propylamine	ug/kg	180 U	180 U	190 U	190 U	200 R	200 U	180 U	190 U	180 U	170 U	180 U	200 U	180 U	180 U
Aniline	ug/kg	550 U	530 U	560 U	560 U	590 R	590 U	530 U	560 U	540 U	520 U	550 U	600 U	540 U	530 U
Benzoic Acid	ug/kg	550 U	530 U	560 U	560 U	590 R	590 U	530 U	560 U	540 U	520 U	550 U	600 U	540 U	530 U
Hexachloroethane	ug/kg	180 U	180 U	190 U	190 U	200 R	200 U	180 U	190 U	180 U	170 U	180 U	200 U	180 U	180 U
4-Chlorophenyl Phenylether	ug/kg	180 U	180 U	190 U	190 U	200 R	200 U	180 U	190 U	180 U	170 U	180 U	200 U	180 U	180 U
Hexachlorocyclopentadiene	ug/kg	550 U	530 U	560 U	560 U	590 R	590 U	530 U	560 U	540 U	520 U	550 U	600 U	540 U	530 U
Isophorone	ug/kg	180 U	180 U	190 U	190 U	200 R	200 U	180 U	190 U	180 U	170 U	180 U	200 U	180 U	180 U
Acenaphthene	ug/kg	1.8 U	1.8 U	1.9 U	1.9 U	20 U	2.0 U	1.8 U	1.9 U	1.8 U	1.7 U	1.8 U	2.0 U	1.8 U	1.8 U
Diethylphthalate (8270C)	ug/kg	--	--	--	--	200 R	--	--	--	--	--	--	--	--	--
Diethylphthalate (8270C SIM)	ug/kg	20 U	19 U	20 U	20 U	--	21 U	19 U	20 U	19 U	19 U	20 U	22 U	19 U	19 U
Di-n-Butylphthalate (8270C)	ug/kg	--	--	--	--	--	--	12000	--	--	--	--	--	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	20 U	19 U	20 U	20 U	16000	21 U	--	18 J	19 U	19 U	20 U	22 U	19 U	19 U
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	0.80 J	1.8 U	2.3	1.9 U	65	2.0 U	2.8	1.9 U	1.8 U	0.91 J	1.8	1.1 J	0.95 J	1.8 U
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	--	200 R	--	23 J	--	--	--	--	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	20 U	19 U	20 U	20 U	--	21 U	--	20 U	19 U	19 U	20 U	22 U	19 U	19 U
N-Nitrosodiphenylamine	ug/kg	180 U	180 U	190 U	190 U	200 R	200 U	180 U	190 U	180 U	170 U	180 U	200 U	180 U	180 U
Fluorene	ug/kg	1.8 U	1.8 U	1.9 U	1.9 U	20 U	2.0 U	1.8 U	1.9 U	1.8 U	1.7 U	1.8 U	2.0 U	1.8 U	1.8 U
Carbazole	ug/kg	180 U	180 U	190 U	190 U	200 R	200 U	180 U	190 U	180 U	170 U	180 U	200 U	180 U	180 U
Pentachlorophenol	ug/kg	550 U	530 U	560 U	560 U	590 R	590 U	190 J	560 U	540 U	520 U	550 U	600 U	540 U	530 U
2,4,6-Trichlorophenol	ug/kg	180 U	180 U	190 U	190 U	200 R	200 U	180 U	190 U	180 U	170 U	180 U	200 U	180 U	180 U
2-Nitroaniline	ug/kg	180 U	180 U	190 U	190 U	200 R	200 U	180 U	190 U	180 U	170 U	180 U	200 U	180 U	180 U
2-Nitrophenol	ug/kg	180 U	180 U	190 U	190 U	200 R	200 U	180 U	190 U	180 U	170 U	180 U	200 U	180 U	180 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	1.8 U	1.8 U	1.9 U	1.9 U	20 U	2.0 U	1.8 U	1.9 U	1.8 U	1.7 U	1.8 U	2.0 U	1.8 U	1.8 U
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene (8270C SIM)	ug/kg	1.8 U	1.8 U	1.9 U	1.9 U	20 U	2.0 U	0.92 J	1.9 U	1.8 U	1.7 U	1.8 U	2.0 U	1.8 U	1.8 U

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Appendix A6
Semivolatile Organics - Validated Data
HSA-5C

Sample Name		SL-053-SA5C-SS-0.0-0.5	SL-053-SA5C-SB-3.0-4.0	SL-054-SA5C-SS-0.0-0.5	SL-054-SA5C-SB-3.0-4.0	SL-056-SA5C-SS-0.0-0.5	SL-056-SA5C-SB-4.0-5.0	SL-057-SA5C-SS-0.0-0.5	SL-057-SA5C-SB-4.0-5.0	SL-057-SA5C-SB-7.0-8.0	SL-058-SA5C-SB-3.0-4.0	SL-059-SA5C-SB-1.0-2.0	SL-059-SA5C-SB-9.0-10.0	SL-060-SA5C-SS-0.0-0.5	SL-060-SA5C-SB-4.0-5.0
Sample Date		10/22/2010	11/22/2010	10/21/2010	11/18/2010	10/22/2010	01/04/2011	10/22/2010	11/30/2010	11/30/2010	11/29/2010	11/29/2010	11/29/2010	10/22/2010	11/23/2010
SDG		DE003	DE021	DX002	DE019	DE003	DE052	DE003	DE025	DE025	DX011	DX011	DX011	DE003	DE022
Start Depth		0	3	0	3	0	4	0	4	7	3	1	9	0	4
End Depth		0.5	4	0.5	4	0.5	5	0.5	5	8	4	2	10	0.5	5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	1.8 U	1.8 U	1.9 U	1.9 U	20 U	2.0 U	1.8 U	1.9 U	1.8 U	1.7 U	1.8 U	2.0 U	1.8 U	1.8 U
2-Chloronaphthalene	ug/kg	180 U	180 U	190 U	190 U	200 R	200 U	180 U	190 U	180 U	170 U	180 U	200 U	180 U	180 U
3,3`-Dichlorobenzidine	ug/kg	370 U	360 U	370 U	380 U	390 R	390 U	350 U	370 U	360 U	350 U	370 U	400 U	360 U	360 U
Benzidine	ug/kg	3700 U	3600 U	3700 U	3800 U	3900 R	3900 UJ	3500 U	3700 U	3600 U	3500 UJ	3700 U	4000 U	3600 U	3600 U
2-Methylphenol	ug/kg	180 U	180 U	190 U	190 U	200 R	200 U	180 U	190 U	180 U	170 U	180 U	200 U	180 U	180 U
2-Chlorophenol	ug/kg	180 U	180 U	190 U	190 U	200 R	200 U	180 U	190 U	180 U	170 U	180 U	200 U	180 U	180 U
2,4,5-Trichlorophenol	ug/kg	180 U	180 U	190 U	190 U	200 R	200 U	180 U	190 U	180 U	170 U	180 U	200 U	180 U	180 U
3-Nitroaniline	ug/kg	180 U	180 U	190 U	190 U	200 R	200 U	180 U	190 U	180 U	170 U	180 U	200 U	180 U	180 U
Benzyl Alcohol	ug/kg	550 U	530 U	560 U	560 U	590 R	590 U	530 U	560 U	540 U	520 U	550 U	600 U	540 U	530 U
2,6-Dinitrotoluene	ug/kg	180 U	180 U	190 U	190 U	200 R	200 U	180 U	190 U	180 U	170 U	180 U	200 U	180 U	180 U

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Appendix A6
Semivolatile Organics - Validated Data
HSA-5C

Sample Name		SL-060-SA5C-SB-9.0-10.0	SL-060-SA5C-SB-10.0-11.0	SL-061-SA5C-SS-0.0-0.5	SL-061-SA5C-SB-4.0-5.0	SL-061-SA5C-SB-9.0-10.0	SL-062-SA5C-SS-0.0-0.5	SL-062-SA5C-SB-2.5-3.5	SL-063-SA5C-SB-4.0-5.0	SL-064-SA5C-SB-4.0-5.0	SL-065-SA5C-SS-0.0-0.5	SL-065-SA5C-SB-2.5-3.5	SL-066-SA5C-SS-0.0-0.5	SL-066-SA5C-SB-3.0-4.0	SL-067-SA5C-SS-0.0-0.5
Sample Date		11/23/2010	12/14/2010	10/22/2010	11/24/2010	11/24/2010	10/22/2010	11/23/2010	11/24/2010	11/24/2010	10/22/2010	11/23/2010	10/22/2010	11/22/2010	10/21/2010
SDG		DE022	DE039	DE003	DE023	DE023	DE003	DE022	DE023	DE023	DE003	DE022	DE003	DE021	DX002
Start Depth		9	10	0	4	9	0	2.5	4	4	0	2.5	0	3	0
End Depth		10	11	0.5	5	10	0.5	3.5	5	5	0.5	3.5	0.5	4	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
N-Nitrosodimethylamine (1625C)	ng/kg	164 U	74.9	--	206 J	121 U	--	--	--	172	--	--	--	481 J	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.9 U	1.9 U	1.8 U	1.8 U	1.9	1.9 U	1.8 U	1.9 U	1.9 U	19 U	1.7 U	19 U	1.8 U	1.8 U
2,4-Dinitrotoluene	ug/kg	190 U	190 U	180 U	180 U	170 U	190 U	180 U	190 U	190 U	190 U	170 U	190 U	180 U	180 U
Nitrobenzene	ug/kg	190 U	190 U	180 U	180 U	170 U	190 U	180 U	190 U	190 U	190 U	170 U	190 U	180 U	180 U
1,4-Dichlorobenzene	ug/kg	190 U	190 U	180 U	180 U	170 U	190 U	180 U	190 U	190 U	190 U	170 U	190 U	180 U	180 U
1,2,4-Trichlorobenzene	ug/kg	190 U	190 U	180 U	180 U	170 U	190 U	180 U	190 U	190 U	190 U	170 U	190 U	180 U	180 U
1,3-Dichlorobenzene	ug/kg	190 U	190 U	180 U	180 U	170 U	190 U	180 U	190 U	190 U	190 U	170 U	190 U	180 U	180 U
Hexachlorobutadiene	ug/kg	190 U	190 U	180 U	180 U	170 U	190 U	180 U	190 U	190 U	190 U	170 U	190 U	180 U	180 U
1,2-Dichlorobenzene	ug/kg	190 U	190 U	180 U	180 U	170 U	190 U	180 U	190 U	190 U	190 U	170 U	190 U	180 U	180 U
4-Nitroaniline	ug/kg	190 U	190 U	180 U	180 U	170 U	190 U	180 U	190 U	190 U	190 U	170 U	190 U	180 U	180 U
4-Nitrophenol	ug/kg	560 U	570 U	540 U	550 U	510 U	570 U	550 U	560 U	580 U	570 U	520 U	580 U	540 U	550 U
4-Bromophenyl Phenyl Ether	ug/kg	190 U	190 U	180 U	180 U	170 U	190 U	180 U	190 U	190 U	190 U	170 U	190 U	180 U	180 U
2,4-Dimethylphenol	ug/kg	190 U	190 U	180 U	180 U	170 U	190 U	180 U	190 U	190 U	190 U	170 U	190 U	180 U	180 U
4-Methylphenol	ug/kg	190 U	190 U	180 U	180 U	170 U	190 U	180 U	190 U	190 U	190 U	170 U	190 U	180 U	180 U
4-Chloroaniline	ug/kg	190 U	190 U	180 U	180 U	170 U	190 U	180 U	190 U	190 U	190 U	170 U	190 U	180 U	180 U
3,5-Dimethylphenol	ug/kg	190 U	190 U	180 U	180 U	170 U	190 U	180 U	190 U	190 U	190 U	170 U	190 U	180 U	180 U
Phenol	ug/kg	190 U	190 U	180 U	180 U	170 U	190 U	180 U	190 U	190 U	190 U	170 U	190 U	180 U	180 U
Bis(2-Chloroethyl) ether	ug/kg	190 U	190 U	180 U	180 U	170 U	190 U	180 U	190 U	190 U	190 U	170 U	190 U	180 U	180 U
Bis(2-Chloroethoxy) methane	ug/kg	190 U	190 U	180 U	180 U	170 U	190 U	180 U	190 U	190 U	190 U	170 U	190 U	180 U	180 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	24 J	--	24 J	--	--	22 J	--	--	--	380 U	--	390 U	--	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	--	21 U	--	20 U	36	--	20 U	20 U	21 U	--	19 U	--	19 U	7.7 J
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	190 U	--	190 U	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	20 U	21 U	20 U	20 U	19 U	21 U	20 U	20 U	21 U	--	19 U	--	19 U	20 UJ
Hexachlorobenzene	ug/kg	190 U	190 U	180 U	180 U	170 U	190 U	180 U	190 U	190 U	190 U	170 U	190 U	180 U	180 U
Anthracene	ug/kg	1.9 U	1.9 U	1.8 U	1.8 U	1.7 U	1.9 U	1.8 U	1.9 U	1.9 U	19 U	1.7 U	19 U	0.48 J	0.49 J
2,4-Dichlorophenol	ug/kg	190 U	190 U	180 U	180 U	170 U	190 U	180 U	190 U	190 U	190 U	170 U	190 U	180 U	180 U
1,2-Diphenylhydrazine	ug/kg	190 U	190 U	180 U	180 U	170 U	190 U	180 U	190 U	190 U	190 U	170 U	190 U	180 U	180 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.5 J	1.8 U	1.7 U	2.4	1.8 U	1.9 U	1.9 U	8.4 J	1.7 U	19 U	1.8 U	4.3 J
Dimethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	190 U	--	190 U	--	--
Dimethylphthalate (8270C SIM)	ug/kg	20 U	21 U	20 U	20 U	19 U	21 U	20 U	20 U	21 U	--	19 U	--	19 U	20 U
Dibenzofuran	ug/kg	190 U	190 U	180 U	180 U	170 U	190 U	180 U	190 U	190 U	190 U	170 U	190 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	1.1 J	1.8 U	1.7 U	1.8 J	1.8 U	1.9 U	1.9 U	9.7 J	1.7 U	19 U	1.8 U	1.0 J
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	1.9 U	1.9 UJ	1.8 U	1.8 U	1.7 U	0.78 J	1.8 U	1.9 U	1.9 U	19 U	1.7 U	19 U	1.8 U	0.89 J
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.2 J	1.8 U	1.7 U	2.9	1.8 U	1.9 U	1.9 U	14 J	1.7 U	12 J	1.8 U	4.6 J
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	1.9 U	1.9 UJ	1.4 J	1.8 U	1.7 U	2.4	1.8 U	1.9 U	1.9 U	19 U	1.7 U	19 U	1.8 U	3.4
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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

Appendix A6
Semivolatile Organics - Validated Data
HSA-5C

Sample Name		SL-060-SA5C-SB-9.0-10.0	SL-060-SA5C-SB-10.0-11.0	SL-061-SA5C-SS-0.0-0.5	SL-061-SA5C-SB-4.0-5.0	SL-061-SA5C-SB-9.0-10.0	SL-062-SA5C-SS-0.0-0.5	SL-062-SA5C-SB-2.5-3.5	SL-063-SA5C-SB-4.0-5.0	SL-064-SA5C-SB-4.0-5.0	SL-065-SA5C-SS-0.0-0.5	SL-065-SA5C-SB-2.5-3.5	SL-066-SA5C-SS-0.0-0.5	SL-066-SA5C-SB-3.0-4.0	SL-067-SA5C-SS-0.0-0.5
Sample Date		11/23/2010	12/14/2010	10/22/2010	11/24/2010	11/24/2010	10/22/2010	11/23/2010	11/24/2010	11/24/2010	10/22/2010	11/23/2010	10/22/2010	11/22/2010	10/21/2010
SDG		DE022	DE039	DE003	DE023	DE023	DE003	DE022	DE023	DE023	DE003	DE022	DE003	DE021	DX002
Start Depth		9	10	0	4	9	0	2.5	4	4	0	2.5	0	3	0
End Depth		10	11	0.5	5	10	0.5	3.5	5	5	0.5	3.5	0.5	4	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Benzo(k)fluoranthene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.2 J	1.8 U	1.7 U	0.95 J	1.8 U	1.9 U	1.9 U	19 U	1.7 U	19 U	1.8 U	1.4 J
Acenaphthylene	ug/kg	1.9 U	1.9 U	1.8 U	1.8 U	1.7 U	1.9 U	1.8 U	1.9 U	1.9 U	19 U	1.7 U	19 U	1.8 U	1.8 U
Chrysene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	1.9 U	1.9 UJ	1.5 J	1.8 U	0.35 J	1.8 J	1.8 U	1.9 U	1.9 U	14 J	1.7 U	6.9 J	1.8 U	3.6 J
bis(2-Chloroisopropyl) ether	ug/kg	190 U	190 U	180 U	180 U	170 U	190 U	180 U	190 U	190 U	190 U	170 U	190 U	180 U	180 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	1.9 U	1.9 U	0.81 J	1.8 U	1.7 U	1.6 J	1.8 U	1.9 U	1.9 U	8.4 J	1.7 U	8.9 J	1.8 U	2.2 J
2,4-Dinitrophenol	ug/kg	2200 U	2300 U	2200 U	2200 U	2100 U	2300 U	2200 U	2200 U	2300 U	2300 U	2100 U	2300 U	2200 U	2200 U
4,6-Dinitro-2-Methylphenol	ug/kg	560 U	570 U	540 U	550 U	510 U	570 U	550 U	560 U	580 U	570 U	520 U	580 U	540 U	550 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	1.9 U	1.9 UJ	1.8 U	1.8 U	1.7 U	1.9 U	1.8 U	1.9 U	1.9 U	19 U	1.7 U	19 U	1.8 U	1.8 UJ
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	1.9 U	1.9 U	0.79 J	1.8 U	1.7 U	1.2 J	1.8 U	1.9 U	1.9 U	19 U	1.7 U	19 U	1.8 U	2.2 J
4-Chloro-3-Methylphenol	ug/kg	190 U	190 U	180 U	180 U	170 U	190 U	180 U	190 U	190 U	190 U	170 U	190 U	180 U	180 U
N-Nitroso-Di-N-Propylamine	ug/kg	190 U	190 U	180 U	180 U	170 U	190 U	180 U	190 U	190 U	190 U	170 U	190 U	180 U	180 U
Aniline	ug/kg	560 U	570 U	540 U	550 U	510 U	570 U	550 U	560 U	580 U	570 U	520 U	580 U	540 U	550 U
Benzoic Acid	ug/kg	560 U	570 U	540 U	550 U	510 U	570 U	550 U	560 U	580 U	570 U	520 U	580 U	540 U	550 U
Hexachloroethane	ug/kg	190 U	190 U	180 U	180 U	170 U	190 U	180 U	190 U	190 U	190 U	170 U	190 U	180 U	180 U
4-Chlorophenyl Phenylether	ug/kg	190 U	190 U	180 U	180 U	170 U	190 U	180 U	190 U	190 U	190 U	170 U	190 U	180 U	180 U
Hexachlorocyclopentadiene	ug/kg	560 U	570 U	540 U	550 U	510 U	570 U	550 U	560 U	580 U	570 U	520 U	580 U	540 U	550 U
Isophorone	ug/kg	190 U	190 U	180 U	180 U	170 U	190 U	180 U	190 U	190 U	190 U	170 U	190 U	180 U	180 U
Acenaphthene	ug/kg	1.9 U	1.9 U	1.8 U	1.8 U	1.7 U	1.9 U	1.8 U	1.9 U	1.9 U	19 U	1.7 U	19 U	1.8 U	1.8 U
Diethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	190 U	--	190 U	--	--
Diethylphthalate (8270C SIM)	ug/kg	20 U	21 UJ	20 U	20 U	8.0 J	21 U	20 U	20 U	21 U	--	19 U	--	19 U	20 U
Di-n-Butylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	190 U	--	190 U	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	20 U	21 UJ	20 U	20 U	19 U	11 J	20 U	20 U	21 U	--	19 U	--	19 U	20 U
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.0 J	1.8 U	1.7 U	1.3 J	1.8 U	1.9 U	1.9 U	19 U	1.7 U	19 U	1.8 U	2.9
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	190 U	--	190 U	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	20 U	21 U	20 U	20 U	19 U	7.5 J	20 U	20 U	21 U	--	19 U	--	19 U	20 UJ
N-Nitrosodiphenylamine	ug/kg	190 U	190 U	180 U	180 U	170 U	190 U	180 U	190 UJ	190 U	190 U	170 U	190 U	180 U	180 U
Fluorene	ug/kg	1.9 U	1.9 UJ	1.8 U	1.8 U	1.7 U	1.9 U	1.8 U	1.9 U	1.9 U	19 U	1.7 U	19 U	1.8 U	1.8 U
Carbazole	ug/kg	190 U	190 U	180 U	180 U	170 U	190 U	180 U	190 U	190 U	190 U	170 U	190 U	180 U	180 U
Pentachlorophenol	ug/kg	560 U	570 U	540 U	550 U	510 U	570 U	550 U	560 U	580 U	570 U	520 U	580 U	540 U	550 U
2,4,6-Trichlorophenol	ug/kg	190 U	190 U	180 U	180 U	170 U	190 U	180 U	190 U	190 U	190 U	170 U	190 U	180 U	180 U
2-Nitroaniline	ug/kg	190 U	190 U	180 U	180 U	170 U	190 U	180 U	190 U	190 U	190 U	170 U	190 U	180 U	180 U
2-Nitrophenol	ug/kg	190 U	190 U	180 U	180 U	170 U	190 U	180 U	190 U	190 U	190 U	170 U	190 U	180 U	180 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.8 U	1.8 U	1.7 U	1.9 U	1.8 U	1.9 U	1.9 U	19 U	1.7 U	19 U	1.8 U	1.8 U
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.8 U	1.8 U	1.7 U	1.9 U	1.8 U	1.9 U	1.9 U	19 U	1.7 U	19 U	1.8 U	1.8 U

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Appendix A6
Semivolatile Organics - Validated Data
HSA-5C

Sample Name		SL-060-SA5C-SB-9.0-10.0	SL-060-SA5C-SB-10.0-11.0	SL-061-SA5C-SS-0.0-0.5	SL-061-SA5C-SB-4.0-5.0	SL-061-SA5C-SB-9.0-10.0	SL-062-SA5C-SS-0.0-0.5	SL-062-SA5C-SB-2.5-3.5	SL-063-SA5C-SB-4.0-5.0	SL-064-SA5C-SB-4.0-5.0	SL-065-SA5C-SS-0.0-0.5	SL-065-SA5C-SB-2.5-3.5	SL-066-SA5C-SS-0.0-0.5	SL-066-SA5C-SB-3.0-4.0	SL-067-SA5C-SS-0.0-0.5
Sample Date		11/23/2010	12/14/2010	10/22/2010	11/24/2010	11/24/2010	10/22/2010	11/23/2010	11/24/2010	11/24/2010	10/22/2010	11/23/2010	10/22/2010	11/22/2010	10/21/2010
SDG		DE022	DE039	DE003	DE023	DE023	DE003	DE022	DE023	DE023	DE003	DE022	DE003	DE021	DX002
Start Depth		9	10	0	4	9	0	2.5	4	4	0	2.5	0	3	0
End Depth		10	11	0.5	5	10	0.5	3.5	5	5	0.5	3.5	0.5	4	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.8 U	1.8 U	1.7 U	1.9 U	1.8 U	1.9 U	1.9 U	19 U	1.7 U	19 U	1.8 U	1.8 U
2-Chloronaphthalene	ug/kg	190 U	190 U	180 U	180 U	170 U	190 U	180 U	190 U	190 U	190 U	170 U	190 U	180 U	180 U
3,3`-Dichlorobenzidine	ug/kg	370 U	380 U	360 U	370 U	340 U	380 U	360 U	370 U	380 U	380 U	350 U	390 U	360 U	370 U
Benzidine	ug/kg	3700 U	3800 U	3600 U	3700 U	3400 U	3800 U	3600 U	3700 UJ	3800 U	3800 U	3500 UJ	3900 UJ	3600 U	3700 U
2-Methylphenol	ug/kg	190 U	190 U	180 U	180 U	170 U	190 U	180 U	190 U	190 U	190 U	170 U	190 U	180 U	180 U
2-Chlorophenol	ug/kg	190 U	190 U	180 U	180 U	170 U	190 U	180 U	190 U	190 U	190 U	170 U	190 U	180 U	180 U
2,4,5-Trichlorophenol	ug/kg	190 U	190 U	180 U	180 U	170 U	190 U	180 U	190 U	190 U	190 U	170 U	190 U	180 U	180 U
3-Nitroaniline	ug/kg	190 U	190 U	180 U	180 U	170 U	190 U	180 U	190 U	190 U	190 U	170 U	190 U	180 U	180 U
Benzyl Alcohol	ug/kg	560 U	570 U	540 U	550 U	510 U	570 U	550 U	560 UJ	580 U	570 U	520 U	580 U	540 U	550 U
2,6-Dinitrotoluene	ug/kg	190 U	190 U	180 U	180 U	170 U	190 U	180 U	190 U	190 U	190 U	170 U	190 U	180 U	180 U

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Appendix A6
Semivolatile Organics - Validated Data
HSA-5C

Sample Name		SL-067-SA5C-SB-3.0-4.0	SL-068-SA5C-SS-0.0-0.5	SL-068-SA5C-SB-3.5-4.5	SL-070-SA5C-SB-4.0-5.0	SL-070-SA5C-SB-9.0-10.0	SL-071-SA5C-SB-4.0-5.0	SL-071-SA5C-SB-9.0-10.0	SL-072-SA5C-SS-0.0-0.5	SL-072-SA5C-SB-4.0-5.0	SL-072-SA5C-SB-7.5-8.5	SL-073-SA5C-SS-0.0-0.5	SL-074-SA5C-SB-4.0-5.0	SL-074-SA5C-SB-8.0-9.0	SL-075-SA5C-SB-4.0-5.0
Sample Date		11/18/2010	10/21/2010	11/18/2010	11/30/2010	11/30/2010	11/29/2010	11/29/2010	10/21/2010	11/17/2010	11/17/2010	10/27/2010	11/30/2010	11/30/2010	11/29/2010
SDG		DE019	DX002	DE019	DE025	DE025	DX011	DX011	DX002	DE018	DE018	DE005	DE025	DE025	DX011
Start Depth		3	0	3.5	4	9	4	9	0	4	7.5	0	4	8	4
End Depth		4	0.5	4.5	5	10	5	10	0.5	5	8.5	0.5	5	9	5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
N-Nitrosodimethylamine (1625C)	ng/kg	132 U	--	102 U	--	--	328	479	--	71.7 U	118 U	--	--	--	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.8 U	1.8 U	1.8 U	1.9 U	1.9 U	2.0 U	1.9 U	1.8 U	1.8 U	1.9 U	18 U	2.0 U	1.9 U	2.0 U
2,4-Dinitrotoluene	ug/kg	180 U	180 U	180 U	190 U	190 U	200 U	190 U	180 U	180 U	190 U	890 U	200 U	190 U	200 U
Nitrobenzene	ug/kg	180 U	180 U	180 U	190 U	190 U	200 U	190 U	180 U	180 U	190 U	890 U	200 U	190 U	200 U
1,4-Dichlorobenzene	ug/kg	180 U	180 U	180 U	190 U	190 U	200 U	190 U	180 U	180 U	190 U	890 U	200 U	190 U	200 U
1,2,4-Trichlorobenzene	ug/kg	180 U	180 U	180 U	190 U	190 U	200 U	190 U	180 U	180 U	190 U	890 U	200 U	190 U	200 U
1,3-Dichlorobenzene	ug/kg	180 U	180 U	180 U	190 U	190 U	200 U	190 U	180 U	180 U	190 U	890 U	200 U	190 U	200 U
Hexachlorobutadiene	ug/kg	180 U	180 U	180 U	190 U	190 U	200 U	190 U	180 U	180 U	190 U	890 U	200 U	190 U	200 U
1,2-Dichlorobenzene	ug/kg	180 U	180 U	180 U	190 U	190 U	200 U	190 U	180 U	180 U	190 U	890 U	200 U	190 U	200 U
4-Nitroaniline	ug/kg	180 U	180 U	180 U	190 U	190 U	200 U	190 U	180 U	180 U	190 U	890 U	200 U	190 U	200 U
4-Nitrophenol	ug/kg	530 U	530 U	540 U	570 U	580 U	600 U	560 U	540 U	540 U	560 U	2700 U	600 U	570 U	600 U
4-Bromophenyl Phenyl Ether	ug/kg	180 U	180 U	180 U	190 U	190 U	200 U	190 U	180 U	180 U	190 U	890 U	200 U	190 U	200 U
2,4-Dimethylphenol	ug/kg	180 U	180 U	180 U	190 U	190 U	200 U	190 U	180 U	180 U	190 U	890 U	200 U	190 U	200 U
4-Methylphenol	ug/kg	180 U	180 U	180 U	190 U	190 U	200 U	190 U	180 U	180 U	190 U	890 U	200 U	190 U	200 U
4-Chloroaniline	ug/kg	180 U	180 U	180 U	190 U	190 U	200 U	190 U	180 U	180 U	190 U	890 U	200 U	190 U	200 U
3,5-Dimethylphenol	ug/kg	180 U	180 U	180 U	190 U	190 U	200 U	190 U	180 U	180 U	190 U	890 U	200 U	190 U	200 U
Phenol	ug/kg	180 U	180 U	180 U	190 U	190 U	200 U	190 U	180 U	180 U	190 U	890 U	200 U	190 U	200 U
Bis(2-Chloroethyl) ether	ug/kg	180 U	180 U	180 U	190 U	190 U	200 U	190 U	180 U	180 U	190 U	890 U	200 U	190 U	200 U
Bis(2-Chloroethoxy) methane	ug/kg	180 U	180 U	180 U	190 U	190 U	200 U	190 U	180 U	180 U	190 U	890 U	200 U	190 U	200 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	30 J	--	28 J	--	--	--	--	--	--	20 J	110 J	--	--	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	--	19 U	--	20 U	12 J	22 U	7.3 J	11 J	19 U	--	--	21 U	16 J	7.5 J
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	890 U	--	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	19 U	19 U	19 U	20 U	21 U	22 U	20 U	19 U	19 U	20 U	--	21 U	20 U	21 U
Hexachlorobenzene	ug/kg	180 U	180 U	180 U	190 U	190 U	200 U	190 U	180 U	180 U	190 U	890 U	200 U	190 U	200 U
Anthracene	ug/kg	1.8 U	1.8 U	1.8 U	1.9 U	1.9 U	2.0 U	1.9 U	1.8 U	1.8 U	1.9 U	18 U	2.0 U	1.9 U	2.0 U
2,4-Dichlorophenol	ug/kg	180 U	180 U	180 U	190 U	190 U	200 U	190 U	180 U	180 U	190 U	890 U	200 U	190 U	200 U
1,2-Diphenylhydrazine	ug/kg	180 U	180 U	180 U	190 U	190 U	200 U	190 U	180 U	180 U	190 U	890 U	200 U	190 U	200 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	1.3 J	1.6 J	1.8 U	1.9 U	1.9 U	2.0 U	1.9 U	2.8	1.8 U	1.9 U	9.7 J	2.0 U	1.9 U	2.0 U
Dimethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	890 U	--	--	--
Dimethylphthalate (8270C SIM)	ug/kg	19 U	19 U	19 U	20 U	21 U	22 U	20 U	19 U	19 U	20 U	--	21 U	20 U	21 U
Dibenzofuran	ug/kg	180 U	180 U	180 U	190 U	190 U	200 U	190 U	180 U	180 U	190 U	890 U	200 U	190 U	200 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	0.79 J	1.8 U	1.8 U	1.9 U	1.9 U	2.0 U	1.9 U	1.1 J	1.8 U	1.9 U	16 J	2.0 U	1.9 U	2.0 U
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	1.8 U	1.8 U	1.8 U	1.9 U	1.9 U	2.0 U	1.9 U	1.8 U	1.8 U	1.9 U	18 U	2.0 U	1.9 U	2.0 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	1.6 J	1.1 J	1.8 U	1.9 U	0.91 J	2.0 U	1.9 U	2.7	1.8 U	1.9 U	13 J	2.0 U	1.9 U	0.99 J
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	1.3 J	1.3 J	1.8 U	1.9 U	1.9 U	2.0 U	1.9 U	1.9	1.8 U	1.9 U	7.7 J	2.0 U	1.9 U	2.0 U
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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

Appendix A6
Semivolatile Organics - Validated Data
HSA-5C

Sample Name		SL-067-SA5C-SB-3.0-4.0	SL-068-SA5C-SS-0.0-0.5	SL-068-SA5C-SB-3.5-4.5	SL-070-SA5C-SB-4.0-5.0	SL-070-SA5C-SB-9.0-10.0	SL-071-SA5C-SB-4.0-5.0	SL-071-SA5C-SB-9.0-10.0	SL-072-SA5C-SS-0.0-0.5	SL-072-SA5C-SB-4.0-5.0	SL-072-SA5C-SB-7.5-8.5	SL-073-SA5C-SS-0.0-0.5	SL-074-SA5C-SB-4.0-5.0	SL-074-SA5C-SB-8.0-9.0	SL-075-SA5C-SB-4.0-5.0
Sample Date		11/18/2010	10/21/2010	11/18/2010	11/30/2010	11/30/2010	11/29/2010	11/29/2010	10/21/2010	11/17/2010	11/17/2010	10/27/2010	11/30/2010	11/30/2010	11/29/2010
SDG		DE019	DX002	DE019	DE025	DE025	DX011	DX011	DX002	DE018	DE018	DE005	DE025	DE025	DX011
Start Depth		3	0	3.5	4	9	4	9	0	4	7.5	0	4	8	4
End Depth		4	0.5	4.5	5	10	5	10	0.5	5	8.5	0.5	5	9	5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Benzo(k)fluoranthene (8270C SIM)	ug/kg	1.8 U	1.8 U	1.8 U	1.9 U	1.9 U	2.0 U	1.9 U	0.86 J	1.8 U	1.9 U	18 U	2.0 U	1.9 U	2.0 U
Acenaphthylene	ug/kg	1.8 U	1.8 U	1.8 U	1.9 U	1.9 U	2.0 U	1.9 U	1.8 U	1.8 U	1.9 U	18 U	2.0 U	1.9 U	2.0 U
Chrysene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	1.3 J	1.2 J	1.8 U	1.9 U	1.4 J	2.0 U	0.65 J	2.3	1.8 U	1.9 U	23	2.0 U	1.9 U	1.2 J
bis(2-Chloroisopropyl) ether	ug/kg	180 U	180 U	180 U	190 U	190 U	200 U	190 U	180 U	180 U	190 U	890 U	200 U	190 U	200 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	1.1 J	1.8 U	1.8 U	1.9 U	0.78 J	2.0 U	1.9 U	1.2 J	1.8 U	1.9 U	18 U	2.0 U	1.9 U	2.0 U
2,4-Dinitrophenol	ug/kg	2100 U	2100 U	2200 U	2300 U	2300 U	2400 U	2300 U	2200 U	2200 U	2200 U	11000 R	2400 U	2300 U	2400 U
4,6-Dinitro-2-Methylphenol	ug/kg	530 U	530 U	540 U	570 U	580 U	600 U	560 U	540 U	540 U	560 U	2700 U	600 U	570 U	600 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	1.8 U	1.8 U	1.8 U	1.9 U	1.9 U	2.0 U	1.9 U	1.8 U	1.8 U	1.9 U	18 U	2.0 U	1.9 U	2.0 U
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	0.90 J	1.8 U	1.8 U	1.9 U	1.9 U	2.0 U	1.9 U	1.0 J	1.8 U	1.9 U	18 U	2.0 U	1.9 U	2.0 U
4-Chloro-3-Methylphenol	ug/kg	180 U	180 U	180 U	190 U	190 U	200 U	190 U	180 U	180 U	190 U	890 U	200 U	190 U	200 U
N-Nitroso-Di-N-Propylamine	ug/kg	180 U	180 U	180 U	190 U	190 U	200 U	190 U	180 U	180 U	190 U	890 U	200 U	190 U	200 U
Aniline	ug/kg	530 U	530 U	540 U	570 U	580 U	600 U	560 U	540 U	540 U	560 U	2700 R	600 U	570 U	600 U
Benzoic Acid	ug/kg	530 U	530 U	540 U	570 U	580 U	600 U	560 U	540 U	540 U	560 U	2700 U	600 U	570 U	600 U
Hexachloroethane	ug/kg	180 U	180 U	180 U	190 U	190 U	200 U	190 U	180 U	180 U	190 U	890 U	200 U	190 U	200 U
4-Chlorophenyl Phenylether	ug/kg	180 U	180 U	180 U	190 U	190 U	200 U	190 U	180 U	180 U	190 U	890 U	200 U	190 U	200 U
Hexachlorocyclopentadiene	ug/kg	530 U	530 U	540 U	570 U	580 U	600 U	560 U	540 U	540 U	560 U	2700 U	600 U	570 U	600 U
Isophorone	ug/kg	180 U	180 U	180 U	190 U	190 U	200 U	190 U	180 U	180 U	190 U	890 U	200 U	190 U	200 U
Acenaphthene	ug/kg	1.8 U	1.8 U	1.8 U	1.9 U	1.9 U	2.0 U	1.9 U	1.8 U	1.8 U	1.9 U	18 U	2.0 U	1.9 U	2.0 U
Diethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	890 U	--	--	--
Diethylphthalate (8270C SIM)	ug/kg	19 U	19 U	19 U	20 U	21 U	22 U	20 U	19 U	19 U	20 U	--	21 U	20 U	21 U
Di-n-Butylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	890 U	--	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	19 U	19 U	19 U	20 U	21 U	22 U	20 U	19 U	19 U	20 U	--	21 U	20 U	21 U
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	1.8 U	1.4 J	1.8 U	1.9 U	1.2 J	2.0 U	1.9 U	1.1 J	1.8 U	1.9 U	18 U	2.0 U	1.9 U	1.4 J
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	890 U	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	19 U	19 U	19 U	20 U	21 U	22 U	20 U	19 U	19 U	20 U	--	21 U	20 U	21 U
N-Nitrosodiphenylamine	ug/kg	180 U	180 U	180 U	190 U	190 U	200 U	190 U	180 U	180 U	190 U	890 U	200 U	190 U	200 U
Fluorene	ug/kg	1.8 U	1.8 U	1.8 U	1.9 U	1.9 U	2.0 U	1.9 U	1.8 U	1.8 U	1.9 U	18 U	2.0 U	1.9 U	2.0 U
Carbazole	ug/kg	180 U	180 U	180 U	190 U	190 U	200 U	190 U	180 U	180 U	190 U	890 U	200 U	190 U	200 U
Pentachlorophenol	ug/kg	530 U	530 U	540 U	570 U	580 U	600 U	560 U	540 U	540 U	560 U	2700 U	600 U	570 U	600 U
2,4,6-Trichlorophenol	ug/kg	180 U	180 U	180 U	190 U	190 U	200 U	190 U	180 U	180 U	190 U	890 U	200 U	190 U	200 U
2-Nitroaniline	ug/kg	180 U	180 U	180 U	190 U	190 U	200 U	190 U	180 U	180 U	190 U	890 U	200 U	190 U	200 U
2-Nitrophenol	ug/kg	180 U	180 U	180 U	190 U	190 U	200 U	190 U	180 U	180 U	190 U	890 U	200 U	190 U	200 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	1.8 U	1.8 U	1.8 U	1.9 U	1.9 U	2.0 U	1.9 U	1.8 U	1.8 U	1.9 U	18 U	2.0 U	1.9 U	2.0 U
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene (8270C SIM)	ug/kg	1.8 U	1.8 U	1.8 U	1.9 U	1.9 U	2.0 U	1.9 U	1.8 U	1.8 U	1.9 U	18 U	2.0 U	1.9 U	2.0 U

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Appendix A6
Semivolatile Organics - Validated Data
HSA-5C

Sample Name		SL-067-SA5C-SB-3.0-4.0	SL-068-SA5C-SS-0.0-0.5	SL-068-SA5C-SB-3.5-4.5	SL-070-SA5C-SB-4.0-5.0	SL-070-SA5C-SB-9.0-10.0	SL-071-SA5C-SB-4.0-5.0	SL-071-SA5C-SB-9.0-10.0	SL-072-SA5C-SS-0.0-0.5	SL-072-SA5C-SB-4.0-5.0	SL-072-SA5C-SB-7.5-8.5	SL-073-SA5C-SS-0.0-0.5	SL-074-SA5C-SB-4.0-5.0	SL-074-SA5C-SB-8.0-9.0	SL-075-SA5C-SB-4.0-5.0
Sample Date		11/18/2010	10/21/2010	11/18/2010	11/30/2010	11/30/2010	11/29/2010	11/29/2010	10/21/2010	11/17/2010	11/17/2010	10/27/2010	11/30/2010	11/30/2010	11/29/2010
SDG		DE019	DX002	DE019	DE025	DE025	DX011	DX011	DX002	DE018	DE018	DE005	DE025	DE025	DX011
Start Depth		3	0	3.5	4	9	4	9	0	4	7.5	0	4	8	4
End Depth		4	0.5	4.5	5	10	5	10	0.5	5	8.5	0.5	5	9	5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	1.8 U	1.8 U	1.8 U	1.9 U	1.9 U	2.0 U	1.9 U	1.8 U	1.8 U	1.9 U	18 U	2.0 U	1.9 U	2.0 U
2-Chloronaphthalene	ug/kg	180 U	180 U	180 U	190 U	190 U	200 U	190 U	180 U	180 U	190 U	890 U	200 U	190 U	200 U
3,3`-Dichlorobenzidine	ug/kg	360 U	360 U	360 U	380 U	380 U	400 U	380 U	360 U	360 U	370 U	1800 R	400 U	380 U	400 U
Benzidine	ug/kg	3600 U	3600 U	3600 U	3800 U	3800 U	4000 U	3800 U	3600 U	3600 U	3700 U	18000 R	4000 U	3800 U	4000 U
2-Methylphenol	ug/kg	180 U	180 U	180 U	190 U	190 U	200 U	190 U	180 U	180 U	190 U	890 U	200 U	190 U	200 U
2-Chlorophenol	ug/kg	180 U	180 U	180 U	190 U	190 U	200 U	190 U	180 U	180 U	190 U	890 U	200 U	190 U	200 U
2,4,5-Trichlorophenol	ug/kg	180 U	180 U	180 U	190 U	190 U	200 U	190 U	180 U	180 U	190 U	890 U	200 U	190 U	200 U
3-Nitroaniline	ug/kg	180 U	180 U	180 U	190 U	190 U	200 U	190 U	180 U	180 U	190 U	890 U	200 U	190 U	200 U
Benzyl Alcohol	ug/kg	530 U	530 U	540 U	570 U	580 U	600 U	560 U	540 U	540 U	560 U	2700 U	600 U	570 U	600 U
2,6-Dinitrotoluene	ug/kg	180 U	180 U	180 U	190 U	190 U	200 U	190 U	180 U	180 U	190 U	890 U	200 U	190 U	200 U

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Appendix A6
Semivolatile Organics - Validated Data
HSA-5C

Sample Name		SL-075-SA5C-SB-9.0-10.0	SL-076-SA5C-SS-0.0-0.5	SL-076-SA5C-SB-3.0-4.0	SL-077-SA5C-SS-0.0-0.5	SL-077-SA5C-SB-3.0-4.0	SL-078-SA5C-SS-0.0-0.5	SL-078-SA5C-SB-4.0-5.0	SL-079-SA5C-SS-0.0-0.5	SL-079-SA5C-SB-4.0-5.0	SL-079-SA5C-SB-8.5-9.5	SL-080-SA5C-SS-0.0-0.5	SL-080-SA5C-SB-4.0-5.0	SL-080-SA5C-SB-7.5-8.5	SL-081-SA5C-SB-3.0-4.0
Sample Date		11/29/2010	10/22/2010	11/23/2010	10/22/2010	11/23/2010	10/22/2010	11/22/2010	10/21/2010	11/17/2010	11/17/2010	10/21/2010	11/17/2010	11/17/2010	11/17/2010
SDG		DX011	DE003	DE022	DE003	DE022	DE003	DE021	DX002	DE018	DE018	DX002	DE018	DE018	DE018
Start Depth		9	0	3	0	3	0	4	0	4	8.5	0	4	7.5	3
End Depth		10	0.5	4	0.5	4	0.5	5	0.5	5	9.5	0.5	5	8.5	4
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
N-Nitrosodimethylamine (1625C)	ng/kg	--	--	237 J	--	129 U	--	--	--	--	--	--	--	--	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.9 U	1.9 U	1.8 U	1.8 U	1.8 U	18 U	1.8 U	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	1.8 U	1.8 U
2,4-Dinitrotoluene	ug/kg	190 U	190 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	180 U
Nitrobenzene	ug/kg	190 U	190 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	180 U
1,4-Dichlorobenzene	ug/kg	190 U	190 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	180 U
1,2,4-Trichlorobenzene	ug/kg	190 U	190 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	180 U
1,3-Dichlorobenzene	ug/kg	190 U	190 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	180 U
Hexachlorobutadiene	ug/kg	190 U	190 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	180 U
1,2-Dichlorobenzene	ug/kg	190 U	190 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	180 U
4-Nitroaniline	ug/kg	190 U	190 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	180 U
4-Nitrophenol	ug/kg	580 U	570 U	530 U	550 U	530 U	550 U	550 U	540 U	540 U	560 U	540 U	550 U	540 U	530 U
4-Bromophenyl Phenyl Ether	ug/kg	190 U	190 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	180 U
2,4-Dimethylphenol	ug/kg	190 U	190 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	180 U
4-Methylphenol	ug/kg	190 U	190 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	180 U
4-Chloroaniline	ug/kg	190 U	190 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	180 U
3,5-Dimethylphenol	ug/kg	190 U	190 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	180 U
Phenol	ug/kg	190 U	190 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	180 U
Bis(2-Chloroethyl) ether	ug/kg	190 U	190 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	180 U
Bis(2-Chloroethoxy) methane	ug/kg	190 U	190 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	180 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	--	--	--	25 J	--	--	24 J	--	--	19 J	--	20 J	19 J	18 J
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	7.5 J	22	19 U	--	19 U	190 J	--	8.2 J	19 U	--	20 UJ	--	--	--
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	21 U	21 U	19 U	20 U	19 U	80 J	20 U	19 UJ	19 U	20 U	20 UJ	20 U	20 U	19 U
Hexachlorobenzene	ug/kg	190 U	190 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	180 U
Anthracene	ug/kg	1.9 U	1.2 J	1.8 U	0.72 J	1.8 U	18 U	1.8 U	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	1.8 U	1.8 U
2,4-Dichlorophenol	ug/kg	190 U	190 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	180 U
1,2-Diphenylhydrazine	ug/kg	190 U	190 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	180 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	1.9 U	4.8	1.8 U	3.4	1.8 U	18 U	1.8 U	3.0 J	1.8 U	1.9 U	3.8 J	1.8 U	1.8 U	1.8 U
Dimethylphthalate (8270C)	ug/kg	--	--	--	--	--	180 U	--	--	--	--	--	--	--	--
Dimethylphthalate (8270C SIM)	ug/kg	21 U	21 U	19 U	20 U	19 U	--	20 U	19 U	19 U	20 U	20 U	20 U	20 U	19 U
Dibenzofuran	ug/kg	190 U	190 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	180 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	24 J	--	--	--	--	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	1.9 U	3.5	1.8 U	1.9	--	18 U	1.8 U	0.84 J	1.8 U	1.9 U	1.8 UJ	1.8 U	1.8 U	1.8 U
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	21 J	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	1.9 U	1.3 J	1.8 U	0.98 J	--	18 U	1.8 U	1.8 UJ	1.8 U	1.9 U	1.8 UJ	1.8 U	1.8 U	1.8 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	1.9 U	5.9	1.8 U	4.6	1.8 U	18 U	1.8 U	3.2 J	1.8 U	1.9 U	3.1 J	1.8 U	1.8 U	1.8 U
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	1.9 U	4.3	1.8 U	3.3	1.8 U	18 U	1.8 U	2.2	1.8 U	1.9 U	2.8	1.8 U	1.8 U	1.8 U
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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R – Result is rejected

Appendix A6
Semivolatile Organics - Validated Data
HSA-5C

Sample Name		SL-075-SA5C-SB-9.0-10.0	SL-076-SA5C-SS-0.0-0.5	SL-076-SA5C-SB-3.0-4.0	SL-077-SA5C-SS-0.0-0.5	SL-077-SA5C-SB-3.0-4.0	SL-078-SA5C-SS-0.0-0.5	SL-078-SA5C-SB-4.0-5.0	SL-079-SA5C-SS-0.0-0.5	SL-079-SA5C-SB-4.0-5.0	SL-079-SA5C-SB-8.5-9.5	SL-080-SA5C-SS-0.0-0.5	SL-080-SA5C-SB-4.0-5.0	SL-080-SA5C-SB-7.5-8.5	SL-081-SA5C-SB-3.0-4.0
Sample Date		11/29/2010	10/22/2010	11/23/2010	10/22/2010	11/23/2010	10/22/2010	11/22/2010	10/21/2010	11/17/2010	11/17/2010	10/21/2010	11/17/2010	11/17/2010	11/17/2010
SDG		DX011	DE003	DE022	DE003	DE022	DE003	DE021	DX002	DE018	DE018	DX002	DE018	DE018	DE018
Start Depth		9	0	3	0	3	0	4	0	4	8.5	0	4	7.5	3
End Depth		10	0.5	4	0.5	4	0.5	5	0.5	5	9.5	0.5	5	8.5	4
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Benzo(k)fluoranthene (8270C SIM)	ug/kg	1.9 U	2.2	1.8 U	1.8	1.8 U	18 U	1.8 U	1.3 J	1.8 U	1.9 U	1.4 J	1.8 U	1.8 U	1.8 U
Acenaphthylene	ug/kg	1.9 U	1.9 U	1.8 U	1.8 U	1.8 U	18 U	1.8 U	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	1.8 U	1.8 U
Chrysene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	0.45 J	6.2	1.8 U	2.4	1.8 U	6.5 J	1.8 U	2.9 J	1.8 U	1.9 U	2.6 J	1.8 U	1.8 U	1.8 U
bis(2-Chloroisopropyl) ether	ug/kg	190 U	190 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	180 U
Benzo(a)pyrene (8270C)	ug/kg	--	27 J	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	1.9 U	--	1.8 U	2.1	1.8 U	18 U	1.8 U	1.5 J	1.8 U	1.9 U	1.5 J	1.8 U	1.8 U	1.8 U
2,4-Dinitrophenol	ug/kg	2300 U	2300 U	2100 U	2200 U	2100 U	2200 U	2200 U	2200 U	2100 U	2200 U	2200 U	2200 U	2200 U	2100 U
4,6-Dinitro-2-Methylphenol	ug/kg	580 U	570 U	530 U	550 U	530 U	550 U	550 U	540 U	540 U	560 U	540 U	550 U	540 U	530 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	20 J	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	1.9 U	0.93 J	1.8 U	1.8 U	--	18 U	1.8 U	1.8 UJ	1.8 U	1.9 U	1.8 UJ	1.8 U	1.8 U	1.8 U
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	1.9 U	2.2	1.8 U	1.5 J	1.8 U	18 U	1.8 U	1.3 J	1.8 U	1.9 U	1.2 J	1.8 U	1.8 U	1.8 U
4-Chloro-3-Methylphenol	ug/kg	190 U	190 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	180 U
N-Nitroso-Di-N-Propylamine	ug/kg	190 U	190 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	180 U
Aniline	ug/kg	580 U	570 U	530 U	550 U	530 U	550 U	550 U	540 U	540 U	560 U	540 U	550 U	540 U	530 U
Benzoic Acid	ug/kg	580 U	570 U	530 U	550 U	530 U	550 U	550 U	540 U	540 U	560 U	540 U	550 U	540 U	530 U
Hexachloroethane	ug/kg	190 U	190 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	180 U
4-Chlorophenyl Phenylether	ug/kg	190 U	190 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	180 U
Hexachlorocyclopentadiene	ug/kg	580 U	570 U	530 U	550 U	530 U	550 U	550 U	540 U	540 U	560 U	540 U	550 U	540 U	530 U
Isophorone	ug/kg	190 U	190 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	180 U
Acenaphthene	ug/kg	1.9 U	1.9 U	1.8 U	1.8 U	1.8 U	18 U	1.8 U	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	1.8 U	1.8 U
Diethylphthalate (8270C)	ug/kg	--	--	--	--	--	180 U	--	--	--	--	--	--	--	--
Diethylphthalate (8270C SIM)	ug/kg	21 U	21 U	19 U	20 U	19 U	--	20 U	19 U	19 U	20 U	20 U	20 U	20 U	19 U
Di-n-Butylphthalate (8270C)	ug/kg	--	--	--	--	--	180 U	--	--	--	--	--	--	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	21 U	21 U	19 U	26	19 U	--	20 U	17 J	19 U	20 U	20 U	20 U	20 U	19 U
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	1.9 U	3.7	1.8 U	2.7	1.8 U	18 U	1.8 U	1.4 J	1.8 U	1.9 U	2.4	1.8 U	1.8 U	1.8 U
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	--	--	180 U	--	--	--	--	--	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	21 U	21 U	19 U	20 U	19 U	--	20 U	19 UJ	19 U	20 U	20 UJ	20 U	20 U	19 U
N-Nitrosodiphenylamine	ug/kg	190 U	190 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	180 U
Fluorene	ug/kg	1.9 U	1.9 U	1.8 U	1.8 U	1.8 U	18 U	1.8 U	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	1.8 U	1.8 U
Carbazole	ug/kg	190 U	190 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	180 U
Pentachlorophenol	ug/kg	580 U	570 U	530 U	550 U	530 U	550 U	550 U	540 U	540 U	560 U	540 U	550 U	540 U	530 U
2,4,6-Trichlorophenol	ug/kg	190 U	190 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	180 U
2-Nitroaniline	ug/kg	190 U	190 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	180 U
2-Nitrophenol	ug/kg	190 U	190 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	180 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.8 U	1.8 U	1.8 U	18 U	1.8 U	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	1.8 U	1.8 U
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.8 U	1.8 U	1.8 U	18 U	1.8 U	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	1.8 U	1.8 U

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

Appendix A6
Semivolatile Organics - Validated Data
HSA-5C

Sample Name		SL-075-SA5C-SB-9.0-10.0	SL-076-SA5C-SS-0.0-0.5	SL-076-SA5C-SB-3.0-4.0	SL-077-SA5C-SS-0.0-0.5	SL-077-SA5C-SB-3.0-4.0	SL-078-SA5C-SS-0.0-0.5	SL-078-SA5C-SB-4.0-5.0	SL-079-SA5C-SS-0.0-0.5	SL-079-SA5C-SB-4.0-5.0	SL-079-SA5C-SB-8.5-9.5	SL-080-SA5C-SS-0.0-0.5	SL-080-SA5C-SB-4.0-5.0	SL-080-SA5C-SB-7.5-8.5	SL-081-SA5C-SB-3.0-4.0
Sample Date		11/29/2010	10/22/2010	11/23/2010	10/22/2010	11/23/2010	10/22/2010	11/22/2010	10/21/2010	11/17/2010	11/17/2010	10/21/2010	11/17/2010	11/17/2010	11/17/2010
SDG		DX011	DE003	DE022	DE003	DE022	DE003	DE021	DX002	DE018	DE018	DX002	DE018	DE018	DE018
Start Depth		9	0	3	0	3	0	4	0	4	8.5	0	4	7.5	3
End Depth		10	0.5	4	0.5	4	0.5	5	0.5	5	9.5	0.5	5	8.5	4
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.8 U	1.8 U	1.8 U	18 U	1.8 U	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	1.8 U	1.8 U
2-Chloronaphthalene	ug/kg	190 U	190 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	180 U
3,3`-Dichlorobenzidine	ug/kg	390 U	380 U	350 U	360 U	350 U	370 U	370 U	360 U	360 U	370 U	360 U	370 U	360 U	350 U
Benzidine	ug/kg	3900 U	3800 U	3500 U	3600 U	3500 U	3700 U	3700 U	3600 U	3600 U	3700 U	3600 U	3700 R	3600 U	3500 U
2-Methylphenol	ug/kg	190 U	190 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	180 U
2-Chlorophenol	ug/kg	190 U	190 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	180 U
2,4,5-Trichlorophenol	ug/kg	190 U	190 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	180 U
3-Nitroaniline	ug/kg	190 U	190 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	180 U
Benzyl Alcohol	ug/kg	580 U	570 U	530 U	550 U	530 U	550 U	550 U	540 U	540 U	560 U	540 U	550 U	540 U	530 U
2,6-Dinitrotoluene	ug/kg	190 U	190 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	180 U

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

Appendix A6
Semivolatile Organics - Validated Data
HSA-5C

Sample Name		SL-083-SA5C-SB-2.5-3.5	SL-085-SA5C-SB-2.5-3.0	SL-086-SA5C-SS-0.0-0.5	SL-086-SA5C-SB-4.0-5.0	SL-088-SA5C-SS-0.0-0.5	SL-088-SA5C-SB-4.0-5.0	SL-088-SA5C-SB-8.5-9.5	SL-090-SA5C-SS-0.0-0.5	SL-090-SA5C-SB-4.0-5.0	SL-093-SA5C-SB-4.0-5.0	SL-093-SA5C-SB-8.0-9.0	SL-094-SA5C-SB-4.0-5.0	SL-094-SA5C-SB-8.5-9.5	SL-095-SA5C-SS-0.0-0.5
Sample Date		11/16/2010	11/16/2010	10/22/2010	11/11/2010	11/15/2010	11/12/2010	11/12/2010	10/22/2010	11/15/2010	11/15/2010	11/15/2010	11/15/2010	11/15/2010	10/22/2010
SDG		DE017	DE017	DE003	DE014	DE016	DE015	DE015	DE003	DE016	DE016	DE016	DE016	DE016	DE003
Start Depth		2.5	2.5	0	4	0	4	8.5	0	4	4	8	4	8.5	0
End Depth		3.5	3	0.5	5	0.5	5	9.5	0.5	5	5	9	5	9.5	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
N-Nitrosodimethylamine (1625C)	ng/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.8 U	2.0 U	1.9 U	1.8 U	1.9 U	2.0 U	1.9 U	19 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
2,4-Dinitrotoluene	ug/kg	180 U	200 U	190 U	180 U	190 U	200 U	190 R	190 U	190 U	190 U	190 U	190 U	190 U	190 U
Nitrobenzene	ug/kg	180 U	200 U	190 U	180 U	190 U	200 U	190 R	190 U	190 U	190 U	190 U	190 U	190 U	190 U
1,4-Dichlorobenzene	ug/kg	180 U	200 U	190 U	180 U	190 U	200 U	190 R	190 U	190 U	190 U	190 U	190 U	190 U	190 U
1,2,4-Trichlorobenzene	ug/kg	180 U	200 U	190 U	180 U	190 U	200 U	190 R	190 U	190 U	190 U	190 U	190 U	190 U	190 U
1,3-Dichlorobenzene	ug/kg	180 U	200 U	190 U	180 U	190 U	200 U	190 R	190 U	190 U	190 U	190 U	190 U	190 U	190 U
Hexachlorobutadiene	ug/kg	180 U	200 U	190 U	180 U	190 U	200 U	190 R	190 U	190 U	190 U	190 U	190 U	190 U	190 U
1,2-Dichlorobenzene	ug/kg	180 U	200 U	190 U	180 U	190 U	200 U	190 R	190 U	190 U	190 U	190 U	190 U	190 U	190 U
4-Nitroaniline	ug/kg	180 U	200 U	190 U	180 U	190 U	200 U	190 R	190 U	190 U	190 U	190 U	190 U	190 U	190 U
4-Nitrophenol	ug/kg	540 U	590 U	580 U	550 U	580 U	590 U	580 R	560 U	570 U	570 U	560 U	580 U	570 U	580 U
4-Bromophenyl Phenyl Ether	ug/kg	180 U	200 U	190 U	180 U	190 U	200 U	190 R	190 U	190 U	190 U	190 U	190 U	190 U	190 U
2,4-Dimethylphenol	ug/kg	180 U	200 U	190 U	180 U	190 U	200 U	190 R	190 U	190 U	190 U	190 U	190 U	190 U	190 U
4-Methylphenol	ug/kg	180 U	200 U	190 U	180 U	190 U	200 U	190 R	190 U	190 U	190 U	190 U	190 U	190 U	190 U
4-Chloroaniline	ug/kg	180 U	200 U	190 U	180 U	190 U	200 U	190 R	190 U	190 U	190 U	190 U	190 U	190 U	190 U
3,5-Dimethylphenol	ug/kg	180 U	200 U	190 U	180 U	190 U	200 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U
Phenol	ug/kg	180 U	200 U	190 U	180 U	190 U	200 U	190 R	190 U	190 U	190 U	190 U	190 U	190 U	190 U
Bis(2-Chloroethyl) ether	ug/kg	180 U	200 U	190 U	180 U	190 U	200 U	190 R	190 U	190 U	190 U	190 U	190 U	190 U	190 U
Bis(2-Chloroethoxy) methane	ug/kg	180 U	200 U	190 U	180 U	190 U	200 U	190 R	190 U	190 U	190 U	190 U	190 U	190 U	190 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	21 J	27 J	27 J	--	42 J	--	--	--	26 J	28 J	38 J	30 J	26 J	35 J
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	--	--	--	20 U	--	21 U	21 U	500	--	--	--	--	--	--
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	--	--	--	--	--	190 U	--	--	--	--	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	19 U	21 U	21 U	20 U	44	21 U	21 U	--	21 U	21 U	20 U	21 U	21 U	21 U
Hexachlorobenzene	ug/kg	180 U	200 U	190 U	180 U	190 U	200 U	190 R	190 U	190 U	190 U	190 U	190 U	190 U	190 U
Anthracene	ug/kg	1.8 U	2.0 U	0.50 J	1.8 U	25	1.0 J	1.9 U	12 J	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	2.3
2,4-Dichlorophenol	ug/kg	180 U	200 U	190 U	180 U	190 U	200 U	190 R	190 U	190 U	190 U	190 U	190 U	190 U	190 U
1,2-Diphenylhydrazine	ug/kg	180 U	200 U	190 U	180 U	190 U	200 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	82 J
Pyrene (8270C SIM)	ug/kg	1.8 U	2.0 U	2.4	1.8 U	200	25	1.9 U	68	1.9 U	1.9 U	2.8	1.9 U	1.9 U	--
Dimethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	190 U	--	--	--	--	--	--
Dimethylphthalate (8270C SIM)	ug/kg	19 U	21 U	21 U	20 U	21 U	21 U	21 U	--	21 U	21 U	20 U	21 U	21 U	21 U
Dibenzofuran	ug/kg	180 U	200 U	190 U	180 U	190 U	200 U	190 R	190 U	190 U	190 U	190 U	190 U	190 U	190 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--	--	50 J	--	--	--	--	--	42 J
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	1.8 U	2.0 U	3.0	1.8 U	19	11	1.9 U	--	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	--
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	42 J	--	--	--	--	--	40 J
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	1.8 U	2.0 U	1.1 J	1.8 U	17	9.8	1.9 U	--	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	--
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	40 J
Benzo(b)fluoranthene (8270C SIM)	ug/kg	1.8 U	0.82 J	7.5	1.8 U	230	24	1.9 U	110	1.9 U	1.7 J	10	3.1	1.3 J	--
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	59 J	--	--	--	--	--	93 J
Fluoranthene (8270C SIM)	ug/kg	1.8 U	2.0 U	1.9 U	1.8 U	150	24	1.9 U	--	1.9 U	1.9 U	2.0	1.9 U	1.9 U	--
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	44 J	--	--	--	--	--	26 J

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

Appendix A6
Semivolatile Organics - Validated Data
HSA-5C

Sample Name		SL-083-SA5C-SB-2.5-3.5	SL-085-SA5C-SB-2.5-3.0	SL-086-SA5C-SS-0.0-0.5	SL-086-SA5C-SB-4.0-5.0	SL-088-SA5C-SS-0.0-0.5	SL-088-SA5C-SB-4.0-5.0	SL-088-SA5C-SB-8.5-9.5	SL-090-SA5C-SS-0.0-0.5	SL-090-SA5C-SB-4.0-5.0	SL-093-SA5C-SB-4.0-5.0	SL-093-SA5C-SB-8.0-9.0	SL-094-SA5C-SB-4.0-5.0	SL-094-SA5C-SB-8.5-9.5	SL-095-SA5C-SS-0.0-0.5
Sample Date		11/16/2010	11/16/2010	10/22/2010	11/11/2010	11/15/2010	11/12/2010	11/12/2010	10/22/2010	11/15/2010	11/15/2010	11/15/2010	11/15/2010	11/15/2010	10/22/2010
SDG		DE017	DE017	DE003	DE014	DE016	DE015	DE015	DE003	DE016	DE016	DE016	DE016	DE016	DE003
Start Depth		2.5	2.5	0	4	0	4	8.5	0	4	4	8	4	8.5	0
End Depth		3.5	3	0.5	5	0.5	5	9.5	0.5	5	5	9	5	9.5	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Benzo(k)fluoranthene (8270C SIM)	ug/kg	1.8 U	1.2 J	1.9 U	1.8 U	1.9 U	13	1.9 U	--	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	--
Acenaphthylene	ug/kg	1.8 U	2.0 U	1.9 U	1.8 U	0.58 J	2.0 U	1.9 U	4.5 J	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Chrysene (8270C)	ug/kg	--	--	--	--	--	--	--	82 J	--	--	23 J	--	--	40 J
Chrysene (8270C SIM)	ug/kg	1.8 U	1.1 J	9.6	1.8 U	90	17	1.9 U	--	1.9 U	0.87 J	--	1.0 J	1.9 U	--
bis(2-Chloroisopropyl) ether	ug/kg	180 U	200 U	190 U	180 U	190 U	200 U	190 R	190 U	190 U	190 U	190 U	190 U	190 U	190 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	41 J	--	--	--	--	--	40 J
Benzo(a)pyrene (8270C SIM)	ug/kg	1.8 U	0.88 J	2.2	1.8 U	100	20	1.9 U	--	1.9 U	0.79 J	5.4	1.6 J	1.9 U	--
2,4-Dinitrophenol	ug/kg	2200 U	2400 U	2300 U	2200 U	2300 U	2400 U	2300 R	2300 U	2300 U	2300 U	2200 U	2300 U	2300 U	2300 U
4,6-Dinitro-2-Methylphenol	ug/kg	540 U	590 U	580 U	550 U	580 U	590 U	580 R	560 U	570 U	570 U	560 U	580 U	570 U	580 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	1.8 U	2.0 U	1.9	1.8 U	7.0	2.7	1.9 U	19 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.0 J
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	1.8 U	2.0 U	1.6 J	1.8 U	66	17	1.9 U	29	1.9 U	1.9 U	0.89 J	1.9 U	1.9 U	9.2
4-Chloro-3-Methylphenol	ug/kg	180 U	200 U	190 U	180 U	190 U	200 U	190 R	190 U	190 U	190 U	190 U	190 U	190 U	190 U
N-Nitroso-Di-N-Propylamine	ug/kg	180 U	200 U	190 U	180 U	190 U	200 U	190 R	190 U	190 U	190 U	190 U	190 U	190 U	190 U
Aniline	ug/kg	540 U	590 U	580 U	550 U	580 U	590 U	580 R	560 U	570 U	570 U	560 U	580 U	570 U	580 U
Benzoic Acid	ug/kg	540 U	590 U	580 U	550 U	580 U	590 U	580 R	560 U	570 U	570 U	560 U	580 U	570 U	580 U
Hexachloroethane	ug/kg	180 U	200 U	190 U	180 U	190 U	200 U	190 R	190 U	190 U	190 U	190 U	190 U	190 U	190 U
4-Chlorophenyl Phenylether	ug/kg	180 U	200 U	190 U	180 U	190 U	200 U	190 R	190 U	190 U	190 U	190 U	190 U	190 U	190 U
Hexachlorocyclopentadiene	ug/kg	540 U	590 U	580 U	550 U	580 U	590 U	580 R	560 U	570 U	570 U	560 U	580 U	570 U	580 U
Isophorone	ug/kg	180 U	200 U	190 U	180 U	190 U	200 U	190 R	190 U	190 U	190 U	190 U	190 U	190 U	190 U
Acenaphthene	ug/kg	1.8 U	2.0 U	1.9 U	1.8 U	22	2.0 U	1.9 U	19 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	2.1
Diethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	190 U	--	--	--	--	--	--
Diethylphthalate (8270C SIM)	ug/kg	19 U	21 U	21 U	20 U	21 U	21 U	21 U	--	21 U	21 U	20 U	21 U	21 U	21 U
Di-n-Butylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	270	--	--	--	--	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	19 U	21 U	21 U	20 U	21 U	21 U	21 U	--	21 U	21 U	20 U	21 U	21 U	21 U
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	100 J
Phenanthrene (8270C SIM)	ug/kg	1.8 U	2.0 U	1.6 J	1.8 U	130	3.1	1.9 U	37	1.9 U	0.86 J	4.2	1.9 U	1.9 U	--
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	72 J	--	--	--	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	19 U	21 U	21 U	20 U	21 U	21 U	21 U	--	21 U	21 U	20 U	21 U	21 U	44
N-Nitrosodiphenylamine	ug/kg	180 U	200 U	190 U	180 U	190 U	200 U	190 R	190 U	190 U	190 U	190 U	190 U	190 U	190 U
Fluorene	ug/kg	1.8 U	2.0 U	1.9 U	1.8 U	16	2.0 U	1.9 U	19 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.1 J
Carbazole	ug/kg	180 U	200 U	190 U	180 U	190 U	200 U	190 R	190 U	190 U	190 U	190 U	190 U	190 U	190 U
Pentachlorophenol	ug/kg	540 U	590 U	580 U	550 U	580 U	590 U	580 R	560 U	570 U	570 U	560 U	580 U	570 U	580 U
2,4,6-Trichlorophenol	ug/kg	180 U	200 U	190 U	180 U	190 U	200 U	190 R	190 U	190 U	190 U	190 U	190 U	190 U	190 U
2-Nitroaniline	ug/kg	180 U	200 U	190 U	180 U	190 U	200 U	190 R	190 U	190 U	190 U	190 U	190 U	190 U	190 U
2-Nitrophenol	ug/kg	180 U	200 U	190 U	180 U	190 U	200 U	190 R	190 U	190 U	190 U	190 U	190 U	190 U	190 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	1.8 U	2.0 U	1.9 U	1.8 U	3.4	2.0 U	1.9 U	19 U	1.9 U	1.9 U	0.75 J	1.9 U	1.9 U	1.9 U
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene (8270C SIM)	ug/kg	1.8 U	2.0 U	1.9 U	1.8 U	2.7	2.0 U	1.9 U	19 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U

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

Appendix A6
Semivolatile Organics - Validated Data
HSA-5C

Sample Name		SL-083-SA5C-SB-2.5-3.5	SL-085-SA5C-SB-2.5-3.0	SL-086-SA5C-SS-0.0-0.5	SL-086-SA5C-SB-4.0-5.0	SL-088-SA5C-SS-0.0-0.5	SL-088-SA5C-SB-4.0-5.0	SL-088-SA5C-SB-8.5-9.5	SL-090-SA5C-SS-0.0-0.5	SL-090-SA5C-SB-4.0-5.0	SL-093-SA5C-SB-4.0-5.0	SL-093-SA5C-SB-8.0-9.0	SL-094-SA5C-SB-4.0-5.0	SL-094-SA5C-SB-8.5-9.5	SL-095-SA5C-SS-0.0-0.5
Sample Date		11/16/2010	11/16/2010	10/22/2010	11/11/2010	11/15/2010	11/12/2010	11/12/2010	10/22/2010	11/15/2010	11/15/2010	11/15/2010	11/15/2010	11/15/2010	10/22/2010
SDG		DE017	DE017	DE003	DE014	DE016	DE015	DE015	DE003	DE016	DE016	DE016	DE016	DE016	DE003
Start Depth		2.5	2.5	0	4	0	4	8.5	0	4	4	8	4	8.5	0
End Depth		3.5	3	0.5	5	0.5	5	9.5	0.5	5	5	9	5	9.5	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	1.8 U	2.0 U	1.9 U	1.8 U	2.8	2.0 U	1.9 U	19 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
2-Chloronaphthalene	ug/kg	180 U	200 U	190 U	180 U	190 U	200 U	190 R	190 U	190 U	190 U	190 U	190 U	190 U	190 U
3,3`-Dichlorobenzidine	ug/kg	360 U	400 U	380 U	370 U	390 U	390 U	390 R	380 U	380 U	380 U	370 U	380 U	380 U	390 U
Benzidine	ug/kg	3600 U	4000 U	3800 U	3700 U	3900 U	3900 U	3900 R	3800 U	3800 U	3800 U	3700 U	3800 U	3800 U	3900 U
2-Methylphenol	ug/kg	180 U	200 U	190 U	180 U	190 U	200 U	190 R	190 U	190 U	190 U	190 U	190 U	190 U	190 U
2-Chlorophenol	ug/kg	180 U	200 U	190 U	180 U	190 U	200 U	190 R	190 U	190 U	190 U	190 U	190 U	190 U	190 U
2,4,5-Trichlorophenol	ug/kg	180 U	200 U	190 U	180 U	190 U	200 U	190 R	190 U	190 U	190 U	190 U	190 U	190 U	190 U
3-Nitroaniline	ug/kg	180 U	200 U	190 U	180 U	190 U	200 U	190 R	190 U	190 U	190 U	190 U	190 U	190 U	190 U
Benzyl Alcohol	ug/kg	540 U	590 U	580 U	550 U	580 U	590 U	580 R	560 U	570 U	570 U	560 U	580 U	570 U	580 U
2,6-Dinitrotoluene	ug/kg	180 U	200 U	190 U	180 U	190 U	200 U	190 R	190 U	190 U	190 U	190 U	190 U	190 U	190 U

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Appendix A6
Semivolatile Organics - Validated Data
HSA-5C

Sample Name		SL-096-SA5C-SS-0.0-0.5	SL-096-SA5C-SB-4.0-5.0	SL-096-SA5C-SB-9.0-10.0	SL-097-SA5C-SS-0.0-0.5	SL-097-SA5C-SB-4.0-5.0	SL-097-SA5C-SB-9.0-10.0	SL-098-SA5C-SS-0.0-0.5	SL-098-SA5C-SB-4.0-5.0	SL-098-SA5C-SB-9.0-10.0	SL-099-SA5C-SS-0.0-0.5	SL-099-SA5C-SB-4.0-5.0	SL-099-SA5C-SB-9.0-10.0	SL-100-SA5C-SS-0.0-0.5	SL-100-SA5C-SB-4.0-5.0
Sample Date		10/22/2010	11/12/2010	11/12/2010	01/04/2011	11/12/2010	11/12/2010	10/21/2010	11/09/2010	11/09/2010	10/21/2010	11/09/2010	11/09/2010	10/21/2010	11/11/2010
SDG		DE003	DE015	DE015	DE052	DE015	DE015	DE001	DE012	DE012	DE001	DE012	DE012	DE001	DE014
Start Depth		0	4	9	0	4	9	0	4	9	0	4	9	0	4
End Depth		0.5	5	10	0.5	5	10	0.5	5	10	0.5	5	10	0.5	5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
N-Nitrosodimethylamine (1625C)	ng/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	18 U	1.9 U	1.8 U	9.9 U	1.8 U	1.9 U	18 U	1.9 U	1.9 U	18 U	1.9 U	1.8 U	18 U	1.8 U
2,4-Dinitrotoluene	ug/kg	180 R	190 U	180 U	200 U	180 U	190 U	180 U	190 U	190 U	180 U	190 U	180 U	180 U	180 U
Nitrobenzene	ug/kg	180 R	190 U	180 U	200 U	180 U	190 U	180 U	190 U	190 U	180 U	190 U	180 U	180 U	180 U
1,4-Dichlorobenzene	ug/kg	180 R	190 U	180 U	200 U	180 U	190 U	180 U	190 U	190 U	180 U	190 U	180 U	180 U	180 U
1,2,4-Trichlorobenzene	ug/kg	180 R	190 U	180 U	200 U	180 U	190 U	180 U	190 U	190 U	180 U	190 U	180 U	180 U	180 U
1,3-Dichlorobenzene	ug/kg	180 R	190 U	180 U	200 U	180 U	190 U	180 U	190 U	190 U	180 U	190 U	180 U	180 U	180 U
Hexachlorobutadiene	ug/kg	180 R	190 U	180 U	200 U	180 U	190 U	180 U	190 U	190 U	180 U	190 U	180 U	180 U	180 U
1,2-Dichlorobenzene	ug/kg	180 R	190 U	180 U	200 U	180 U	190 U	180 UJ	190 U	190 U	180 UJ	190 U	180 U	180 UJ	180 U
4-Nitroaniline	ug/kg	180 R	190 U	180 U	200 U	180 U	190 U	180 U	190 U	190 U	180 U	190 U	180 U	180 U	180 U
4-Nitrophenol	ug/kg	550 R	560 U	540 U	590 U	550 U	560 U	550 U	560 U	570 U	550 U	570 U	550 U	550 U	540 U
4-Bromophenyl Phenyl Ether	ug/kg	180 R	190 U	180 U	200 U	180 U	190 U	180 U	190 U	190 U	180 U	190 U	180 U	180 U	180 U
2,4-Dimethylphenol	ug/kg	180 R	190 U	180 U	200 U	180 U	190 U	180 U	190 U	190 U	180 U	190 U	180 U	180 U	180 U
4-Methylphenol	ug/kg	180 R	190 U	180 U	200 U	180 U	190 U	180 U	190 U	190 U	180 U	190 U	180 U	180 U	180 U
4-Chloroaniline	ug/kg	180 R	190 U	180 U	200 U	180 U	190 U	180 U	190 U	190 U	180 U	190 U	180 U	180 U	180 U
3,5-Dimethylphenol	ug/kg	180 U	190 U	180 U	200 U	180 U	190 U	180 U	190 U	190 U	180 U	190 U	180 U	180 U	180 U
Phenol	ug/kg	180 R	190 U	180 U	200 U	180 U	190 U	180 U	190 U	190 U	180 U	190 U	180 U	180 U	180 U
Bis(2-Chloroethyl) ether	ug/kg	180 R	190 U	180 U	200 U	180 U	190 U	180 U	190 U	190 U	180 U	190 U	180 U	180 U	180 U
Bis(2-Chloroethoxy) methane	ug/kg	180 R	190 U	180 U	200 U	180 U	190 U	180 U	190 U	190 U	180 U	190 U	180 U	180 U	180 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	370 R	--	19 J	400 U	19 J	19 J	--	--	--	--	--	--	--	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	--	20 U	--	--	--	--	200 U	20 U	20 U	200 U	20 U	20 U	200 U	19 U
Di-N-Octyl Phthalate (8270C)	ug/kg	180 R	--	--	200 U	--	--	180 U	--	--	180 U	--	--	180 U	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	--	20 U	19 U	--	20 U	20 U	--	20 U	20 U	--	20 U	20 U	--	19 U
Hexachlorobenzene	ug/kg	180 R	190 U	180 U	200 U	180 U	190 U	180 U	190 U	190 U	180 U	190 U	180 U	180 U	180 U
Anthracene	ug/kg	18 U	1.9 U	1.8 U	9.9 U	1.8 U	1.9 U	18 U	1.9 U	1.9 U	18 U	1.9 U	1.8 U	18 U	1.8 U
2,4-Dichlorophenol	ug/kg	180 R	190 U	180 U	200 U	180 U	190 U	180 U	190 U	190 U	180 U	190 U	180 U	180 U	180 U
1,2-Diphenylhydrazine	ug/kg	180 U	190 U	180 U	200 U	180 U	190 U	180 U	190 U	190 U	180 U	190 U	180 U	180 U	180 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	30	1.9 U	1.8 U	9.9 U	1.8 U	1.9 U	18 U	1.9 U	1.9 U	18 U	1.9 U	1.8 U	18 U	1.8 U
Dimethylphthalate (8270C)	ug/kg	180 R	--	--	200 U	--	--	180 U	--	--	180 U	--	--	180 U	--
Dimethylphthalate (8270C SIM)	ug/kg	--	20 U	19 U	--	20 U	20 U	--	20 U	20 U	--	20 U	20 U	--	19 U
Dibenzofuran	ug/kg	180 R	190 U	180 U	200 U	180 U	190 U	180 U	190 U	190 U	180 U	190 U	180 U	180 U	180 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	17 J	1.9 U	1.8 U	6.3 J	1.8 U	1.9 U	18 U	1.9 U	1.9 U	18 U	1.9 U	1.8 U	18 U	1.8 U
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	18 U	1.9 U	1.8 U	9.9 U	1.8 U	1.9 U	18 U	1.9 U	1.9 U	18 U	1.9 U	1.8 U	18 U	1.8 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	19	1.9 U	1.8 U	6.0 J	1.8 U	1.9 U	18 U	1.9 U	1.9 U	24	1.9 U	1.8 U	9.1 J	1.8 U
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	22	0.78 J	1.8 U	9.9 U	1.8 U	1.9 U	18 U	1.9 U	1.9 U	18 U	1.9 U	1.8 U	18 U	1.8 U
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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R – Result is rejected

Appendix A6
Semivolatile Organics - Validated Data
HSA-5C

Sample Name		SL-096-SA5C-SS-0.0-0.5	SL-096-SA5C-SB-4.0-5.0	SL-096-SA5C-SB-9.0-10.0	SL-097-SA5C-SS-0.0-0.5	SL-097-SA5C-SB-4.0-5.0	SL-097-SA5C-SB-9.0-10.0	SL-098-SA5C-SS-0.0-0.5	SL-098-SA5C-SB-4.0-5.0	SL-098-SA5C-SB-9.0-10.0	SL-099-SA5C-SS-0.0-0.5	SL-099-SA5C-SB-4.0-5.0	SL-099-SA5C-SB-9.0-10.0	SL-100-SA5C-SS-0.0-0.5	SL-100-SA5C-SB-4.0-5.0
Sample Date		10/22/2010	11/12/2010	11/12/2010	01/04/2011	11/12/2010	11/12/2010	10/21/2010	11/09/2010	11/09/2010	10/21/2010	11/09/2010	11/09/2010	10/21/2010	11/11/2010
SDG		DE003	DE015	DE015	DE052	DE015	DE015	DE001	DE012	DE012	DE001	DE012	DE012	DE001	DE014
Start Depth		0	4	9	0	4	9	0	4	9	0	4	9	0	4
End Depth		0.5	5	10	0.5	5	10	0.5	5	10	0.5	5	10	0.5	5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Benzo(k)fluoranthene (8270C SIM)	ug/kg	18 U	1.9 U	1.8 U	9.9 U	1.8 U	1.9 U	18 U	1.9 U	1.9 U	18 U	1.9 U	1.8 U	18 U	1.8 U
Acenaphthylene	ug/kg	18 U	1.9 U	1.8 U	9.9 U	1.8 U	1.9 U	18 U	1.9 U	1.9 U	18 U	1.9 U	1.8 U	18 U	1.8 U
Chrysene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	19	0.43 J	1.8 U	4.7 J	1.8 U	1.9 U	18 U	1.9 U	1.9 U	13 J	1.9 U	1.8 U	8.0 J	1.8 U
bis(2-Chloroisopropyl) ether	ug/kg	180 R	190 U	180 U	200 U	180 U	190 U	180 U	190 U	190 U	180 U	190 U	180 U	180 U	180 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	13 J	1.9 U	1.8 U	9.9 U	1.8 U	1.9 U	18 U	1.9 U	1.9 U	18 U	1.9 U	1.8 U	18 U	1.8 U
2,4-Dinitrophenol	ug/kg	2200 R	2200 U	2200 U	2400 U	2200 U	2300 U	2200 U	2200 U	2300 U	2200 U	2300 U	2200 U	2200 U	2200 U
4,6-Dinitro-2-Methylphenol	ug/kg	550 R	560 U	540 U	590 U	550 U	560 U	550 U	560 U	570 U	550 U	570 U	550 U	550 U	540 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	18 U	1.9 U	1.8 U	9.9 U	1.8 U	1.9 U	18 U	1.9 U	1.9 U	18 U	1.9 U	1.8 U	18 U	1.8 U
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	10 J	1.9 U	1.8 U	9.9 U	1.8 U	1.9 U	18 U	1.9 U	1.9 U	18 U	1.9 U	1.8 U	18 U	1.8 U
4-Chloro-3-Methylphenol	ug/kg	180 R	190 U	180 U	200 U	180 U	190 U	180 U	190 U	190 U	180 U	190 U	180 U	180 U	180 U
N-Nitroso-Di-N-Propylamine	ug/kg	180 R	190 U	180 U	200 U	180 U	190 U	180 U	190 U	190 U	180 U	190 U	180 U	180 U	180 U
Aniline	ug/kg	550 R	560 U	540 U	590 U	550 U	560 U	550 U	560 U	570 U	550 U	570 U	550 U	550 U	540 U
Benzoic Acid	ug/kg	550 R	560 U	540 U	590 U	550 U	560 U	550 U	560 U	570 U	550 U	570 U	550 U	550 U	540 U
Hexachloroethane	ug/kg	180 R	190 U	180 U	200 U	180 U	190 U	180 U	190 U	190 U	180 U	190 U	180 U	180 U	180 U
4-Chlorophenyl Phenylether	ug/kg	180 R	190 U	180 U	200 U	180 U	190 U	180 U	190 U	190 U	180 U	190 U	180 U	180 U	180 U
Hexachlorocyclopentadiene	ug/kg	550 R	560 U	540 U	590 U	550 U	560 U	550 U	560 U	570 U	550 U	570 U	550 U	550 U	540 U
Isophorone	ug/kg	180 R	190 U	180 U	200 U	180 U	190 U	180 U	190 U	190 U	180 U	190 U	180 U	180 U	180 U
Acenaphthene	ug/kg	18 U	1.9 U	1.8 U	9.9 U	1.8 U	1.9 U	18 U	1.9 U	1.9 U	18 U	1.9 U	1.8 U	18 U	1.8 U
Diethylphthalate (8270C)	ug/kg	180 R	--	--	200 U	--	--	180 U	--	--	180 U	--	--	180 U	--
Diethylphthalate (8270C SIM)	ug/kg	--	20 U	19 U	--	20 U	20 U	--	20 U	20 U	--	20 U	20 U	--	19 U
Di-n-Butylphthalate (8270C)	ug/kg	180 R	--	--	200 U	--	--	180 U	--	--	180 U	--	--	180 U	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	--	20 U	19 U	--	20 U	20 U	--	20 U	20 U	--	20 U	20 U	--	19 U
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	11 J	0.77 J	1.8 U	9.9 U	1.8 U	1.9 U	18 U	1.9 U	1.9 U	18 U	1.9 U	1.8 U	18 U	1.8 U
Butylbenzylphthalate (8270C)	ug/kg	180 R	--	--	200 U	--	--	180 U	--	--	180 U	--	--	180 U	--
Butylbenzylphthalate (8270C SIM)	ug/kg	--	20 U	19 U	--	20 U	20 U	--	20 U	20 U	--	20 U	20 U	--	19 U
N-Nitrosodiphenylamine	ug/kg	180 R	190 U	180 U	200 U	180 U	190 U	180 U	190 U	190 U	180 U	190 U	180 U	180 U	180 U
Fluorene	ug/kg	18 U	1.9 U	1.8 U	9.9 U	1.8 U	1.9 U	18 U	1.9 U	1.9 U	18 U	1.9 U	1.8 U	18 U	1.8 U
Carbazole	ug/kg	180 R	190 U	180 U	200 U	180 U	190 U	180 U	190 U	190 U	180 U	190 U	180 U	180 U	180 U
Pentachlorophenol	ug/kg	550 R	560 U	540 U	590 U	550 U	560 U	550 U	560 U	570 U	550 U	570 U	550 U	550 U	540 U
2,4,6-Trichlorophenol	ug/kg	180 R	190 U	180 U	200 U	180 U	190 U	180 U	190 U	190 U	180 U	190 U	180 U	180 U	180 U
2-Nitroaniline	ug/kg	180 R	190 U	180 U	200 U	180 U	190 U	180 U	190 U	190 U	180 U	190 U	180 U	180 U	180 U
2-Nitrophenol	ug/kg	180 R	190 U	180 U	200 U	180 U	190 U	180 U	190 U	190 U	180 U	190 U	180 U	180 U	180 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	18 U	1.9 U	1.8 U	9.9 U	1.8 U	1.9 U	18 U	1.9 U	1.9 U	18 U	1.9 U	1.8 U	18 U	1.8 U
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene (8270C SIM)	ug/kg	18 U	1.9 U	1.8 U	9.9 U	1.8 U	1.9 U	7.6 J	1.9 U	1.9 U	7.6 J	1.9 U	1.8 U	8.1 J	1.8 U

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

Appendix A6
Semivolatile Organics - Validated Data
HSA-5C

Sample Name		SL-096-SA5C-SS-0.0-0.5	SL-096-SA5C-SB-4.0-5.0	SL-096-SA5C-SB-9.0-10.0	SL-097-SA5C-SS-0.0-0.5	SL-097-SA5C-SB-4.0-5.0	SL-097-SA5C-SB-9.0-10.0	SL-098-SA5C-SS-0.0-0.5	SL-098-SA5C-SB-4.0-5.0	SL-098-SA5C-SB-9.0-10.0	SL-099-SA5C-SS-0.0-0.5	SL-099-SA5C-SB-4.0-5.0	SL-099-SA5C-SB-9.0-10.0	SL-100-SA5C-SS-0.0-0.5	SL-100-SA5C-SB-4.0-5.0
Sample Date		10/22/2010	11/12/2010	11/12/2010	01/04/2011	11/12/2010	11/12/2010	10/21/2010	11/09/2010	11/09/2010	10/21/2010	11/09/2010	11/09/2010	10/21/2010	11/11/2010
SDG		DE003	DE015	DE015	DE052	DE015	DE015	DE001	DE012	DE012	DE001	DE012	DE012	DE001	DE014
Start Depth		0	4	9	0	4	9	0	4	9	0	4	9	0	4
End Depth		0.5	5	10	0.5	5	10	0.5	5	10	0.5	5	10	0.5	5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	18 U	1.9 U	1.8 U	9.9 U	1.8 U	1.9 U	18 U	1.9 U	1.9 U	18 U	1.9 U	1.8 U	18 U	1.8 U
2-Chloronaphthalene	ug/kg	180 R	190 U	180 U	200 U	180 U	190 U	180 U	190 U	190 U	180 U	190 U	180 U	180 U	180 U
3,3`-Dichlorobenzidine	ug/kg	370 R	370 U	360 U	400 U	360 U	380 U	370 U	370 U	380 U	370 U	380 U	370 U	370 U	360 U
Benzidine	ug/kg	3700 R	3700 U	3600 U	4000 U	3600 U	3800 U	3700 U	3700 U	3800 U	3700 U	3800 U	3700 U	3700 U	3600 U
2-Methylphenol	ug/kg	180 R	190 U	180 U	200 U	180 U	190 U	180 U	190 U	190 U	180 U	190 U	180 U	180 U	180 U
2-Chlorophenol	ug/kg	180 R	190 U	180 U	200 U	180 U	190 U	180 U	190 U	190 U	180 U	190 U	180 U	180 U	180 U
2,4,5-Trichlorophenol	ug/kg	180 R	190 U	180 U	200 U	180 U	190 U	180 U	190 U	190 U	180 U	190 U	180 U	180 U	180 U
3-Nitroaniline	ug/kg	180 R	190 U	180 U	200 U	180 U	190 U	180 U	190 U	190 U	180 U	190 U	180 U	180 U	180 U
Benzyl Alcohol	ug/kg	550 R	560 U	540 U	590 U	550 U	560 U	550 U	560 U	570 U	550 U	570 U	550 U	550 U	540 U
2,6-Dinitrotoluene	ug/kg	180 R	190 U	180 U	200 U	180 U	190 U	180 U	190 U	190 U	180 U	190 U	180 U	180 U	180 U

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Appendix A6
Semivolatile Organics - Validated Data
HSA-5C

Sample Name		SL-100-SA5C-SB-8.5-9.5	SL-101-SA5C-SS-0.0-0.5	SL-101-SA5C-SB-4.0-5.0	SL-102-SA5C-SB-4.0-5.0	SL-103-SA5C-SS-0.0-0.5	SL-103-SA5C-SB-4.0-5.0	SL-103-SA5C-SB-9.0-10.0	SL-104-SA5C-SS-0.0-0.5	SL-104-SA5C-SB-4.0-5.0	SL-104-SA5C-SB-9.0-10.0	SL-106-SA5C-SB-4.0-5.0	SL-106-SA5C-SB-9.0-10.0	SL-107-SA5C-SS-0.0-0.5	SL-107-SA5C-SB-4.0-5.0
Sample Date		11/11/2010	10/21/2010	11/11/2010	11/09/2010	10/21/2010	11/10/2010	11/10/2010	10/21/2010	11/11/2010	11/11/2010	11/08/2010	11/08/2010	10/21/2010	11/08/2010
SDG		DE014	DE001	DE014	DE012	DE001	DE013	DE013	DE001	DE014	DE014	DE011	DE011	DE001	DE011
Start Depth		8.5	0	4	4	0	4	9	0	4	9	4	9	0	4
End Depth		9.5	0.5	5	5	0.5	5	10	0.5	5	10	5	10	0.5	5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
N-Nitrosodimethylamine (1625C)	ng/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.9 U	18 U	1.8 U	1.9 U	18 U	1.9 U	1.9 U	18 U	1.9 U	1.9 U	1.9 U	1.9 U	18 U	1.9 U
2,4-Dinitrotoluene	ug/kg	190 U	180 U	180 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U	180 U	190 U
Nitrobenzene	ug/kg	190 U	180 U	180 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U	180 U	190 U
1,4-Dichlorobenzene	ug/kg	190 U	180 U	180 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U	180 U	190 U
1,2,4-Trichlorobenzene	ug/kg	190 U	180 U	180 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U	180 U	190 U
1,3-Dichlorobenzene	ug/kg	190 U	180 U	180 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U	180 U	190 U
Hexachlorobutadiene	ug/kg	190 U	180 U	180 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U	180 U	190 U
1,2-Dichlorobenzene	ug/kg	190 U	180 UJ	180 U	190 U	180 UJ	190 U	190 U	180 UJ	190 U	190 U	190 U	190 U	180 UJ	190 U
4-Nitroaniline	ug/kg	190 U	180 U	180 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U	180 U	190 U
4-Nitrophenol	ug/kg	560 U	550 U	540 U	570 U	550 U	560 U	560 U	550 U	560 U	570 U	560 U	570 U	540 U	570 U
4-Bromophenyl Phenyl Ether	ug/kg	190 U	180 U	180 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U	180 U	190 U
2,4-Dimethylphenol	ug/kg	190 U	180 U	180 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U	180 U	190 U
4-Methylphenol	ug/kg	190 U	180 U	180 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U	180 U	190 U
4-Chloroaniline	ug/kg	190 U	180 U	180 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U	180 U	190 U
3,5-Dimethylphenol	ug/kg	190 U	180 U	180 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U	180 U	190 U
Phenol	ug/kg	190 U	180 U	180 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U	180 U	190 U
Bis(2-Chloroethyl) ether	ug/kg	190 U	180 U	180 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U	180 U	190 U
Bis(2-Chloroethoxy) methane	ug/kg	190 U	180 U	180 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U	180 U	190 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	20 U	200 U	19 U	21 U	200 U	20 U	20 U	200 U	20 U	20 U	20 U	21 U	200 U	20 U
Di-N-Octyl Phthalate (8270C)	ug/kg	--	180 U	--	--	180 U	--	--	180 U	--	--	--	--	180 U	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	20 U	--	19 U	21 U	--	20 U	9.7 J	--	20 U	20 U	20 U	21 U	--	20 U
Hexachlorobenzene	ug/kg	190 U	180 U	180 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U	180 U	190 U
Anthracene	ug/kg	1.9 U	18 U	1.8 U	1.9 U	18 U	1.9 U	1.9 U	18 U	1.9 U	1.9 U	1.9 U	1.9 U	18 U	1.9 U
2,4-Dichlorophenol	ug/kg	190 U	180 U	180 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U	180 U	190 U
1,2-Diphenylhydrazine	ug/kg	190 U	180 U	180 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U	180 U	190 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	1.9 U	18 U	1.8 U	1.0 J	18 U	1.9 U	1.9 U	18 U	1.9 U	1.9 U	1.9 U	1.9 U	18 U	1.9 U
Dimethylphthalate (8270C)	ug/kg	--	180 U	--	--	180 U	--	--	180 U	--	--	--	--	180 U	--
Dimethylphthalate (8270C SIM)	ug/kg	20 U	--	19 U	21 U	--	20 U	20 U	--	20 U	20 U	20 U	21 U	--	20 U
Dibenzofuran	ug/kg	190 U	180 U	180 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U	180 U	190 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	1.9 U	18 U	1.8 U	0.85 J	18 U	1.9 U	1.9 U	18 U	1.9 U	1.9 U	1.9 U	1.9 U	18 U	1.9 U
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	1.9 U	18 U	1.8 U	1.9 U	18 U	1.9 U	1.9 U	18 U	1.9 U	1.9 U	1.9 U	1.9 U	18 U	1.9 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	1.9 U	18 U	1.8 U	3.6	18 U	1.9 U	1.9 U	18 U	1.9 U	1.9 U	1.9 U	1.9 U	11 J	1.9 U
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	1.9 U	18 U	1.8 U	1.9 U	18 U	1.9 U	1.9 U	18 U	1.9 U	1.9 U	1.9 U	1.9 U	18 U	1.9 U
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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Appendix A6
Semivolatile Organics - Validated Data
HSA-5C

Sample Name		SL-100-SA5C-SB-8.5-9.5	SL-101-SA5C-SS-0.0-0.5	SL-101-SA5C-SB-4.0-5.0	SL-102-SA5C-SB-4.0-5.0	SL-103-SA5C-SS-0.0-0.5	SL-103-SA5C-SB-4.0-5.0	SL-103-SA5C-SB-9.0-10.0	SL-104-SA5C-SS-0.0-0.5	SL-104-SA5C-SB-4.0-5.0	SL-104-SA5C-SB-9.0-10.0	SL-106-SA5C-SB-4.0-5.0	SL-106-SA5C-SB-9.0-10.0	SL-107-SA5C-SS-0.0-0.5	SL-107-SA5C-SB-4.0-5.0
Sample Date		11/11/2010	10/21/2010	11/11/2010	11/09/2010	10/21/2010	11/10/2010	11/10/2010	10/21/2010	11/11/2010	11/11/2010	11/08/2010	11/08/2010	10/21/2010	11/08/2010
SDG		DE014	DE001	DE014	DE012	DE001	DE013	DE013	DE001	DE014	DE014	DE011	DE011	DE001	DE011
Start Depth		8.5	0	4	4	0	4	9	0	4	9	4	9	0	4
End Depth		9.5	0.5	5	5	0.5	5	10	0.5	5	10	5	10	0.5	5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Benzo(k)fluoranthene (8270C SIM)	ug/kg	1.9 U	18 U	1.8 U	1.9 U	18 U	1.9 U	1.9 U	18 U	1.9 U	1.9 U	1.9 U	1.9 U	18 U	1.9 U
Acenaphthylene	ug/kg	1.9 U	18 U	1.8 U	1.9 U	18 U	1.9 U	1.9 U	18 U	1.9 U	1.9 U	1.9 U	1.9 U	18 U	1.9 U
Chrysene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	1.9 U	18 U	1.8 U	3.0	3.9 J	1.9 U	1.9 U	18 U	1.9 U	1.9 U	1.9 U	1.9 U	4.9 J	1.9 U
bis(2-Chloroisopropyl) ether	ug/kg	190 U	180 U	180 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U	180 U	190 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	1.9 U	18 U	1.8 U	1.8 J	18 U	1.9 U	1.9 U	18 U	1.9 U	1.9 U	1.9 U	1.9 U	18 U	1.9 U
2,4-Dinitrophenol	ug/kg	2200 U	2200 U	2100 U	2300 U	2200 U	2200 U	2200 U	2200 U	2200 U	2300 U	2300 U	2300 U	2200 U	2300 U
4,6-Dinitro-2-Methylphenol	ug/kg	560 U	550 U	540 U	570 U	550 U	560 U	560 U	550 U	560 U	570 U	560 U	570 U	540 U	570 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	1.9 U	18 U	1.8 U	1.9 U	18 U	1.9 U	1.9 U	18 U	1.9 U	1.9 U	1.9 U	1.9 U	18 U	1.9 U
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	1.9 U	18 U	1.8 U	1.9 U	18 U	1.9 U	1.9 U	18 U	1.9 U	1.9 U	1.9 U	1.9 U	18 U	1.9 U
4-Chloro-3-Methylphenol	ug/kg	190 U	180 U	180 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U	180 U	190 U
N-Nitroso-Di-N-Propylamine	ug/kg	190 U	180 U	180 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U	180 U	190 U
Aniline	ug/kg	560 U	550 U	540 U	570 U	550 U	560 U	560 U	550 U	560 U	570 U	560 U	570 U	540 U	570 U
Benzoic Acid	ug/kg	560 U	550 U	540 U	570 U	550 U	560 U	560 U	550 U	560 U	570 U	560 U	570 U	540 U	570 U
Hexachloroethane	ug/kg	190 U	180 U	180 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U	180 U	190 U
4-Chlorophenyl Phenylether	ug/kg	190 U	180 U	180 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U	180 U	190 U
Hexachlorocyclopentadiene	ug/kg	560 U	550 U	540 U	570 U	550 U	560 U	560 U	550 U	560 U	570 U	560 U	570 U	540 U	570 U
Isophorone	ug/kg	190 U	180 U	180 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U	180 U	190 U
Acenaphthene	ug/kg	1.9 U	18 U	1.8 U	1.9 U	18 U	1.9 U	1.9 U	18 U	1.9 U	1.9 U	1.9 U	1.9 U	18 U	1.9 U
Diethylphthalate (8270C)	ug/kg	--	180 U	--	--	180 U	--	--	180 U	--	--	--	--	180 U	--
Diethylphthalate (8270C SIM)	ug/kg	20 U	--	19 U	21 U	--	20 U	20 U	--	20 U	20 U	20 U	21 U	--	20 U
Di-n-Butylphthalate (8270C)	ug/kg	--	180 U	--	--	180 U	--	--	180 U	--	--	--	--	180 U	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	20 U	--	19 U	21 U	--	20 U	20 U	--	20 U	20 U	20 U	21 U	--	20 U
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	1.9 U	18 U	1.8 U	1.9 U	18 U	1.9 U	1.9 U	18 U	1.9 U	1.9 U	1.9 U	1.9 U	18 U	1.9 U
Butylbenzylphthalate (8270C)	ug/kg	--	180 U	--	--	180 U	--	--	180 U	--	--	--	--	180 U	--
Butylbenzylphthalate (8270C SIM)	ug/kg	20 U	--	19 U	21 U	--	20 U	20 U	--	20 U	20 U	20 U	21 U	--	20 U
N-Nitrosodiphenylamine	ug/kg	190 U	180 U	180 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U	180 U	190 U
Fluorene	ug/kg	1.9 U	18 U	1.8 U	1.9 U	18 U	1.9 U	1.9 U	18 U	1.9 U	1.9 U	1.9 U	1.9 U	18 U	1.9 U
Carbazole	ug/kg	190 U	180 U	180 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U	180 U	190 U
Pentachlorophenol	ug/kg	560 U	550 U	540 U	570 U	550 U	560 U	560 U	550 U	560 U	570 U	560 U	570 U	540 U	570 U
2,4,6-Trichlorophenol	ug/kg	190 U	180 U	180 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U	180 U	190 U
2-Nitroaniline	ug/kg	190 U	180 U	180 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U	180 U	190 U
2-Nitrophenol	ug/kg	190 U	180 U	180 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U	180 U	190 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	1.9 U	18 U	1.8 U	1.9 U	18 U	1.9 U	1.9 U	18 U	1.9 U	1.9 U	1.9 U	1.9 U	18 U	1.9 U
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene (8270C SIM)	ug/kg	1.9 U	7.8 J	1.8 U	1.9 U	7.7 J	1.9 U	1.9 U	7.6 J	1.9 U	1.9 U	1.9 U	1.9 U	7.7 J	1.9 U

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

Appendix A6
Semivolatile Organics - Validated Data
HSA-5C

Sample Name		SL-100-SA5C-SB-8.5-9.5	SL-101-SA5C-SS-0.0-0.5	SL-101-SA5C-SB-4.0-5.0	SL-102-SA5C-SB-4.0-5.0	SL-103-SA5C-SS-0.0-0.5	SL-103-SA5C-SB-4.0-5.0	SL-103-SA5C-SB-9.0-10.0	SL-104-SA5C-SS-0.0-0.5	SL-104-SA5C-SB-4.0-5.0	SL-104-SA5C-SB-9.0-10.0	SL-106-SA5C-SB-4.0-5.0	SL-106-SA5C-SB-9.0-10.0	SL-107-SA5C-SS-0.0-0.5	SL-107-SA5C-SB-4.0-5.0
Sample Date		11/11/2010	10/21/2010	11/11/2010	11/09/2010	10/21/2010	11/10/2010	11/10/2010	10/21/2010	11/11/2010	11/11/2010	11/08/2010	11/08/2010	10/21/2010	11/08/2010
SDG		DE014	DE001	DE014	DE012	DE001	DE013	DE013	DE001	DE014	DE014	DE011	DE011	DE001	DE011
Start Depth		8.5	0	4	4	0	4	9	0	4	9	4	9	0	4
End Depth		9.5	0.5	5	5	0.5	5	10	0.5	5	10	5	10	0.5	5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	1.9 U	18 U	1.8 U	1.9 U	18 U	1.9 U	1.9 U	18 U	1.9 U	1.9 U	1.9 U	1.9 U	18 U	1.9 U
2-Chloronaphthalene	ug/kg	190 U	180 U	180 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U	180 U	190 U
3,3`-Dichlorobenzidine	ug/kg	370 U	370 U	360 U	380 U	360 U	370 U	370 U	370 U	370 U	380 U	380 U	380 U	360 U	380 U
Benzidine	ug/kg	3700 U	3700 U	3600 U	3800 U	3600 U	3700 U	3700 U	3700 U	3700 U	3800 U	3800 U	3800 U	3600 U	3800 UJ
2-Methylphenol	ug/kg	190 U	180 U	180 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U	180 U	190 U
2-Chlorophenol	ug/kg	190 U	180 U	180 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U	180 U	190 U
2,4,5-Trichlorophenol	ug/kg	190 U	180 U	180 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U	180 U	190 U
3-Nitroaniline	ug/kg	190 U	180 U	180 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U	180 U	190 U
Benzyl Alcohol	ug/kg	560 U	550 U	540 U	570 U	550 U	560 U	560 U	550 U	560 U	570 U	560 U	570 U	540 U	570 U
2,6-Dinitrotoluene	ug/kg	190 U	180 U	180 U	190 U	180 U	190 U	190 U	180 U	190 U	190 U	190 U	190 U	180 U	190 U

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

Appendix A6
Semivolatile Organics - Validated Data
HSA-5C

Sample Name		SL-107-SA5C-SB-9.0-10.0	SL-108-SA5C-SS-0.0-0.5	SL-108-SA5C-SB-4.0-5.0	SL-108-SA5C-SB-9.0-10.0	SL-109-SA5C-SB-4.0-5.0	SL-109-SA5C-SB-9.0-10.0	SL-110-SA5C-SB-4.0-5.0	SL-110-SA5C-SB-9.0-10.0	SL-111-SA5C-SB-4.0-5.0	SL-111-SA5C-SB-9.0-10.0	SL-112-SA5C-SS-0.0-0.5	SL-112-SA5C-SB-4.0-5.0	SL-114-SA5C-SS-0.0-0.5	SL-115-SA5C-SS-0.0-0.5
Sample Date		11/08/2010	10/21/2010	11/08/2010	11/08/2010	11/08/2010	11/08/2010	11/10/2010	11/10/2010	11/10/2010	11/10/2010	10/20/2010	11/05/2010	10/27/2010	10/19/2010
SDG		DE011	DX002	DE011	DE011	DE011	DE011	DE013	DE013	DE013	DE013	DE001	DE010	DE005	DOE01
Start Depth		9	0	4	9	4	9	4	9	4	9	0	4	0	0
End Depth		10	0.5	5	10	5	10	5	10	5	10	0.5	5	0.5	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
N-Nitrosodimethylamine (1625C)	ng/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	19 U	1.8 U	19 U	14
2,4-Dinitrotoluene	ug/kg	190 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U	970 U	220 U
Nitrobenzene	ug/kg	190 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U	970 U	220 U
1,4-Dichlorobenzene	ug/kg	190 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U	970 U	220 UJ
1,2,4-Trichlorobenzene	ug/kg	190 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U	970 U	220 U
1,3-Dichlorobenzene	ug/kg	190 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U	970 U	220 UJ
Hexachlorobutadiene	ug/kg	190 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U	970 U	220 U
1,2-Dichlorobenzene	ug/kg	190 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 UJ	180 U	970 U	220 U
4-Nitroaniline	ug/kg	190 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U	970 U	220 U
4-Nitrophenol	ug/kg	580 U	540 U	580 U	560 U	570 U	580 U	560 U	570 U	570 U	530 U	560 U	550 U	2900 U	670 UJ
4-Bromophenyl Phenyl Ether	ug/kg	190 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U	970 U	220 U
2,4-Dimethylphenol	ug/kg	190 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U	970 U	220 U
4-Methylphenol	ug/kg	190 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U	970 U	220 UJ
4-Chloroaniline	ug/kg	190 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U	970 U	220 UJ
3,5-Dimethylphenol	ug/kg	190 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U	970 U	220 UJ
Phenol	ug/kg	190 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U	970 U	220 U
Bis(2-Chloroethyl) ether	ug/kg	190 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U	970 U	220 U
Bis(2-Chloroethoxy) methane	ug/kg	190 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U	970 U	220 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	--	--	--	--	--	--	23 J	--	--	20 J	--	27 J	300 J	120
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	21 U	8.4 J	21 U	20 U	21 U	21 U	--	21 U	20 U	--	200 U	--	--	--
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	190 U	--	970 U	40
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	21 U	19 U	21 U	20 U	21 U	21 U	13 J	21 U	20 U	7.5 J	--	20 U	--	--
Hexachlorobenzene	ug/kg	190 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U	970 U	220 U
Anthracene	ug/kg	1.9 U	2.2	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	19 U	1.8 U	13 J	3.3 J
2,4-Dichlorophenol	ug/kg	190 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U	970 U	220 U
1,2-Diphenylhydrazine	ug/kg	190 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U	970 U	220 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	76
Pyrene (8270C SIM)	ug/kg	1.9 U	7.8	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	19 U	1.8 U	140	--
Dimethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	190 U	--	970 U	220 U
Dimethylphthalate (8270C SIM)	ug/kg	21 U	19 U	21 U	20 U	21 U	21 U	20 U	21 U	20 U	19 U	--	20 U	--	--
Dibenzofuran	ug/kg	190 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U	970 U	220 UJ
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	110 J	35 J
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	1.9 U	4.1	0.79 J	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	19 U	1.8 U	--	--
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	1.9 U	1.3 J	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	19 U	1.8 U	22	6.0
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	130 J	47 J
Benzo(b)fluoranthene (8270C SIM)	ug/kg	1.9 U	5.1	2.1	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.8	19 U	1.8 U	--	--
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	160 J	84 J
Fluoranthene (8270C SIM)	ug/kg	1.9 U	4.5	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	19 U	1.8 U	--	--
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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

Appendix A6
Semivolatile Organics - Validated Data
HSA-5C

Sample Name		SL-107-SA5C-SB-9.0-10.0	SL-108-SA5C-SS-0.0-0.5	SL-108-SA5C-SB-4.0-5.0	SL-108-SA5C-SB-9.0-10.0	SL-109-SA5C-SB-4.0-5.0	SL-109-SA5C-SB-9.0-10.0	SL-110-SA5C-SB-4.0-5.0	SL-110-SA5C-SB-9.0-10.0	SL-111-SA5C-SB-4.0-5.0	SL-111-SA5C-SB-9.0-10.0	SL-112-SA5C-SS-0.0-0.5	SL-112-SA5C-SB-4.0-5.0	SL-114-SA5C-SS-0.0-0.5	SL-115-SA5C-SS-0.0-0.5
Sample Date		11/08/2010	10/21/2010	11/08/2010	11/08/2010	11/08/2010	11/08/2010	11/10/2010	11/10/2010	11/10/2010	11/10/2010	10/20/2010	11/05/2010	10/27/2010	10/19/2010
SDG		DE011	DX002	DE011	DE011	DE011	DE011	DE013	DE013	DE013	DE013	DE001	DE010	DE005	DOE01
Start Depth		9	0	4	9	4	9	4	9	4	9	0	4	0	0
End Depth		10	0.5	5	10	5	10	5	10	5	10	0.5	5	0.5	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Benzo(k)fluoranthene (8270C SIM)	ug/kg	1.9 U	3.9	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	19 U	1.8 U	33	11
Acenaphthylene	ug/kg	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	19 U	1.8 U	19 U	11 U
Chrysene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	120 J	55 J
Chrysene (8270C SIM)	ug/kg	1.9 U	16	1.7 J	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	19 U	1.8 U	--	--
bis(2-Chloroisopropyl) ether	ug/kg	190 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U	970 U	220 UJ
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	23 J
Benzo(a)pyrene (8270C SIM)	ug/kg	1.9 U	5.7	0.93 J	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.0 J	19 U	1.8 U	47	--
2,4-Dinitrophenol	ug/kg	2300 U	2100 U	2300 U	2200 U	2300 U	2300 U	2200 U	2300 U	2300 U	2100 U	2200 U	2200 U	12000 U	2700 UJ
4,6-Dinitro-2-Methylphenol	ug/kg	580 U	540 U	580 U	560 U	570 U	580 U	560 U	570 U	570 U	530 U	560 U	550 U	2900 U	670 UJ
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	1.9 U	1.4 J	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	19 U	1.8 U	9.1 J	11 U
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	1.9 U	0.93 J	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.0 J	19 U	1.8 U	50	11
4-Chloro-3-Methylphenol	ug/kg	190 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U	970 U	220 UJ
N-Nitroso-Di-N-Propylamine	ug/kg	190 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U	970 U	220 UJ
Aniline	ug/kg	580 U	540 U	580 U	560 U	570 U	580 U	560 U	570 U	570 U	530 U	560 U	550 U	2900 U	670 U
Benzoic Acid	ug/kg	580 U	540 U	580 U	560 U	570 U	580 U	560 U	570 U	570 U	530 U	560 U	550 U	2900 U	670 U
Hexachloroethane	ug/kg	190 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U	970 U	220 U
4-Chlorophenyl Phenylether	ug/kg	190 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U	970 U	220 U
Hexachlorocyclopentadiene	ug/kg	580 U	540 U	580 U	560 U	570 U	580 U	560 U	570 U	570 U	530 U	560 U	550 U	2900 U	670 U
Isophorone	ug/kg	190 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U	970 U	220 UJ
Acenaphthene	ug/kg	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	19 U	1.8 U	12 J	11 U
Diethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	190 U	--	970 U	220 U
Diethylphthalate (8270C SIM)	ug/kg	21 U	19 U	21 U	20 U	21 U	21 U	20 U	21 U	20 U	19 U	--	20 U	--	--
Di-n-Butylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	190 U	--	970 U	220 U
Di-n-Butylphthalate (8270C SIM)	ug/kg	21 U	19 U	21 U	20 U	21 U	21 U	20 U	21 U	20 U	19 U	--	20 U	--	--
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	100 J	56
Phenanthrene (8270C SIM)	ug/kg	1.9 U	1.4 J	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	19 U	1.8 U	--	--
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	190 U	--	280 J	65
Butylbenzylphthalate (8270C SIM)	ug/kg	7.2 J	12 J	21 U	20 U	21 U	21 U	20 U	21 U	20 U	19 U	--	20 U	--	--
N-Nitrosodiphenylamine	ug/kg	190 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U	970 U	220 U
Fluorene	ug/kg	1.9 U	0.89 J	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	19 U	1.8 U	19 U	11 U
Carbazole	ug/kg	190 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U	970 U	220 UJ
Pentachlorophenol	ug/kg	580 U	540 U	580 U	560 U	570 U	580 U	560 U	570 U	570 U	530 U	560 U	550 U	2900 U	670 U
2,4,6-Trichlorophenol	ug/kg	190 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U	970 U	220 U
2-Nitroaniline	ug/kg	190 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U	970 U	220 U
2-Nitrophenol	ug/kg	190 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U	970 U	220 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	19 U	1.8 U	19 U	11 U
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene (8270C SIM)	ug/kg	1.9 U	1.8 U	1.9 U	1.9 U	0.84 J	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	7.6 J	1.8 U	19 U	6.4

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R – Result is rejected

Appendix A6
Semivolatile Organics - Validated Data
HSA-5C

Sample Name		SL-107-SA5C-SB-9.0-10.0	SL-108-SA5C-SS-0.0-0.5	SL-108-SA5C-SB-4.0-5.0	SL-108-SA5C-SB-9.0-10.0	SL-109-SA5C-SB-4.0-5.0	SL-109-SA5C-SB-9.0-10.0	SL-110-SA5C-SB-4.0-5.0	SL-110-SA5C-SB-9.0-10.0	SL-111-SA5C-SB-4.0-5.0	SL-111-SA5C-SB-9.0-10.0	SL-112-SA5C-SS-0.0-0.5	SL-112-SA5C-SB-4.0-5.0	SL-114-SA5C-SS-0.0-0.5	SL-115-SA5C-SS-0.0-0.5
Sample Date		11/08/2010	10/21/2010	11/08/2010	11/08/2010	11/08/2010	11/08/2010	11/10/2010	11/10/2010	11/10/2010	11/10/2010	10/20/2010	11/05/2010	10/27/2010	10/19/2010
SDG		DE011	DX002	DE011	DE011	DE011	DE011	DE013	DE013	DE013	DE013	DE001	DE010	DE005	DOE01
Start Depth		9	0	4	9	4	9	4	9	4	9	0	4	0	0
End Depth		10	0.5	5	10	5	10	5	10	5	10	0.5	5	0.5	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	19 U	1.8 U	19 U	11 U
2-Chloronaphthalene	ug/kg	190 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U	970 U	220 U
3,3`-Dichlorobenzidine	ug/kg	390 U	360 U	380 U	370 U	380 U	390 U	370 U	380 U	380 U	360 U	370 U	370 U	1900 U	450 U
Benzidine	ug/kg	3900 U	3600 U	3800 U	3700 U	3800 U	3900 U	3700 U	3800 U	3800 U	3600 U	3700 U	3700 UJ	19000 U	4500 U
2-Methylphenol	ug/kg	190 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U	970 U	220 U
2-Chlorophenol	ug/kg	190 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U	970 U	220 U
2,4,5-Trichlorophenol	ug/kg	190 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U	970 U	220 U
3-Nitroaniline	ug/kg	190 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U	970 U	220 U
Benzyl Alcohol	ug/kg	580 U	540 U	580 U	560 U	570 U	580 U	560 U	570 U	570 U	530 U	560 U	550 U	2900 U	670 UJ
2,6-Dinitrotoluene	ug/kg	190 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U	970 U	220 UJ

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

Appendix A6
Semivolatile Organics - Validated Data
HSA-5C

Sample Name		SL-116-SA5C-SS-0.0-0.5	SL-117-SA5C-SS-0.0-0.5	SL-118-SA5C-SB-4.0-5.0	SL-118-SA5C-SB-9.0-10.0	SL-119-SA5C-SB-4.0-5.0	SL-119-SA5C-SB-6.0-7.0	SL-120-SA5C-SS-0.0-0.5	SL-120-SA5C-SB-4.0-5.0	SL-120-SA5C-SB-9.0-10.0	SL-121-SA5C-SS-0.0-0.5	SL-122-SA5C-SS-0.0-0.5	SL-122-SA5C-SB-4.0-5.0	SL-122-SA5C-SB-9.0-10.0	SL-123-SA5C-SS-0.0-0.5
Sample Date		10/19/2010	10/19/2010	11/03/2010	11/03/2010	11/03/2010	11/03/2010	10/19/2010	11/03/2010	11/03/2010	10/19/2010	10/19/2010	11/05/2010	11/05/2010	10/19/2010
SDG		DOE01	DOE01	DE008	DE008	DE008	DE008	DOE01	DE008	DE008	DOE01	DOE01	DE010	DE010	DOE01
Start Depth		0	0	4	9	4	6	0	4	9	0	0	4	9	0
End Depth		0.5	0.5	5	10	5	7	0.5	5	10	0.5	0.5	5	10	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
N-Nitrosodimethylamine (1625C)	ng/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	10 U	11 UJ	1.9 U	1.9 U	1.8 U	1.8 U	1.4	1.8 U	2.0 U	9.7 U	0.75 J	1.8 U	1.8 U	2.7 J
2,4-Dinitrotoluene	ug/kg	210 U	210 U	190 U	190 U	180 U	180 U	180 U	180 U	200 U	190 U	180 U	180 U	180 U	210 U
Nitrobenzene	ug/kg	210 UJ	210 U	190 U	190 U	180 U	180 U	180 U	180 U	200 U	190 U	180 U	180 U	180 U	210 U
1,4-Dichlorobenzene	ug/kg	210 U	210 U	190 U	190 U	180 U	180 U	180 U	180 U	200 U	190 UJ	180 U	180 U	180 U	210 UJ
1,2,4-Trichlorobenzene	ug/kg	210 U	210 U	190 U	190 U	180 U	180 U	180 U	180 U	200 U	190 U	180 U	180 U	180 U	210 U
1,3-Dichlorobenzene	ug/kg	210 U	210 U	190 U	190 U	180 U	180 U	180 U	180 U	200 U	190 U	180 U	180 U	180 U	210 U
Hexachlorobutadiene	ug/kg	210 U	210 U	190 U	190 U	180 U	180 U	180 U	180 U	200 U	190 U	180 U	180 U	180 U	210 U
1,2-Dichlorobenzene	ug/kg	210 UJ	210 U	190 U	190 U	180 U	180 U	180 U	180 U	200 U	190 U	180 U	180 U	180 U	210 U
4-Nitroaniline	ug/kg	210 U	210 U	190 U	190 U	180 U	180 U	180 U	180 U	200 U	190 U	180 U	180 U	180 U	210 U
4-Nitrophenol	ug/kg	630 U	630 U	560 U	580 U	540 U	540 U	530 U	540 U	590 U	580 U	550 UJ	550 U	530 U	630 U
4-Bromophenyl Phenyl Ether	ug/kg	210 U	210 U	190 U	190 U	180 U	180 U	180 U	180 U	200 U	190 U	180 U	180 U	180 U	210 U
2,4-Dimethylphenol	ug/kg	210 U	210 U	190 U	190 U	180 U	180 U	180 U	180 U	200 U	190 U	180 U	180 U	180 U	210 U
4-Methylphenol	ug/kg	210 U	210 U	190 U	190 U	180 U	180 U	180 U	180 U	200 U	190 U	180 U	180 U	180 U	210 UJ
4-Chloroaniline	ug/kg	210 U	210 U	190 U	190 U	180 U	180 U	180 U	180 U	200 U	190 UJ	180 U	180 U	180 U	210 U
3,5-Dimethylphenol	ug/kg	210 U	210 U	190 U	190 U	180 U	180 U	180 U	180 U	200 U	190 U	180 U	180 U	180 U	210 U
Phenol	ug/kg	210 U	210 U	190 U	190 U	180 U	180 U	180 U	180 U	200 U	190 U	180 U	180 U	180 U	210 U
Bis(2-Chloroethyl) ether	ug/kg	210 U	210 U	190 U	190 U	180 U	180 U	180 U	180 U	200 U	190 U	180 U	180 U	180 U	210 U
Bis(2-Chloroethoxy) methane	ug/kg	210 U	210 U	190 U	190 U	180 U	180 U	180 U	180 U	200 U	190 UJ	180 U	180 U	180 U	210 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	140	390	23 J	21 J	--	--	66	27 J	--	75	28 J	--	--	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	--	--	--	--	20 U	19 U	--	--	21 U	--	--	20 U	19 U	620
Di-N-Octyl Phthalate (8270C)	ug/kg	49	61	--	--	--	--	20	--	--	35	21	--	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	--	--	20 U	21 U	20 U	19 U	--	19 U	21 U	--	--	20 U	19 U	14
Hexachlorobenzene	ug/kg	210 U	210 U	190 U	190 U	180 U	180 U	180 U	180 U	200 U	190 U	180 U	180 U	180 U	210 U
Anthracene	ug/kg	12 J	46	1.9 U	1.9 U	1.8 U	1.8 U	1.0	1.8 U	2.0 U	9.7 U	1.8 U	1.8 U	1.8 U	3.0
2,4-Dichlorophenol	ug/kg	210 U	210 U	190 U	190 U	180 U	180 U	180 U	180 U	200 U	190 U	180 U	180 U	180 U	210 U
1,2-Diphenylhydrazine	ug/kg	210 U	210 U	190 U	190 U	180 U	180 U	180 U	180 U	200 U	190 U	180 U	180 U	180 U	210 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	36	--	--	--	34
Pyrene (8270C SIM)	ug/kg	230 J	260	1.9 U	1.9 U	1.8 U	1.8 U	7.3	1.8 U	2.0 U	--	3.4	1.8 U	1.8 U	--
Dimethylphthalate (8270C)	ug/kg	210 U	210 U	--	--	--	--	--	--	--	190 U	--	--	--	--
Dimethylphthalate (8270C SIM)	ug/kg	--	--	20 U	21 U	20 U	19 U	19 U	19 U	21 U	--	20 U	20 U	19 U	23 U
Dibenzofuran	ug/kg	21	28	190 U	190 U	180 U	180 U	180 U	180 U	200 U	190 U	180 U	180 U	180 U	22
Benzo(g,h,i)perylene (8270C)	ug/kg	38	90	--	--	--	--	22	--	--	31 R	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	--	--	1.9 U	1.9 U	1.8 U	1.8 U	--	1.8 U	2.0 U	--	1.3	1.8 U	1.8 U	3.7
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	27	50	--	--	--	--	18	--	--	--	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	--	--	1.9 U	1.9 U	1.8 U	1.8 U	--	1.8 U	2.0 U	9.7 U	0.96 J	1.8 U	1.8 U	2.2
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	22	--	--	--	--	--	--	22
Benzo(b)fluoranthene (8270C SIM)	ug/kg	170 J	160	1.9 U	1.9 U	1.8 U	1.8 U	--	1.8 U	2.0 U	29	3.3	1.8 U	1.8 U	--
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	33	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	290 J	280	1.9 U	1.9 U	1.8 U	1.8 U	7.8	1.8 U	2.0 U	--	4.0 UJ	1.8 U	1.8 U	12 J
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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

Appendix A6
Semivolatile Organics - Validated Data
HSA-5C

Sample Name		SL-116-SA5C-SS-0.0-0.5	SL-117-SA5C-SS-0.0-0.5	SL-118-SA5C-SB-4.0-5.0	SL-118-SA5C-SB-9.0-10.0	SL-119-SA5C-SB-4.0-5.0	SL-119-SA5C-SB-6.0-7.0	SL-120-SA5C-SS-0.0-0.5	SL-120-SA5C-SB-4.0-5.0	SL-120-SA5C-SB-9.0-10.0	SL-121-SA5C-SS-0.0-0.5	SL-122-SA5C-SS-0.0-0.5	SL-122-SA5C-SB-4.0-5.0	SL-122-SA5C-SB-9.0-10.0	SL-123-SA5C-SS-0.0-0.5
Sample Date		10/19/2010	10/19/2010	11/03/2010	11/03/2010	11/03/2010	11/03/2010	10/19/2010	11/03/2010	11/03/2010	10/19/2010	10/19/2010	11/05/2010	11/05/2010	10/19/2010
SDG		DOE01	DOE01	DE008	DE008	DE008	DE008	DOE01	DE008	DE008	DOE01	DOE01	DE010	DE010	DOE01
Start Depth		0	0	4	9	4	6	0	4	9	0	0	4	9	0
End Depth		0.5	0.5	5	10	5	7	0.5	5	10	0.5	0.5	5	10	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Benzo(k)fluoranthene (8270C SIM)	ug/kg	58 J	54 J	1.9 U	1.9 U	1.8 U	1.8 U	3.9	1.8 U	2.0 U	4.5	1.4 J	1.8 U	1.8 U	4.2 UJ
Acenaphthylene	ug/kg	7.7 J	11 UJ	1.9 U	1.9 U	1.8 U	1.8 U	0.41 J	1.8 U	2.0 U	9.7 U	1.8 U	1.8 U	1.8 U	0.60 J
Chrysene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	20 J	--	--	--	26
Chrysene (8270C SIM)	ug/kg	140 U	180 J	1.9 U	1.9 U	1.8 U	1.8 U	7.7 J	1.8 U	2.0 U	--	3.2 UJ	1.8 U	1.8 U	--
bis(2-Chloroisopropyl) ether	ug/kg	210 U	210 U	190 U	190 U	180 U	180 U	180 U	180 U	200 U	190 U	180 U	180 U	180 U	210 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	90	100 U	1.9 U	1.9 U	1.8 U	1.8 U	5.7	1.8 U	2.0 U	11	1.8 UJ	1.8 U	1.8 U	6.6 J
2,4-Dinitrophenol	ug/kg	2500 U	2500 UJ	2200 U	2300 U	2200 U	2200 U	2100 U	2200 U	2400 U	2300 U	2200 U	2200 U	2100 U	2500 U
4,6-Dinitro-2-Methylphenol	ug/kg	630 U	630 U	560 U	580 U	540 U	540 U	530 U	540 U	590 U	580 U	550 U	550 U	530 U	630 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	26	--	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	8.8	--	1.9 U	1.9 U	1.8 U	1.8 U	1.9	1.8 U	2.0 U	9.7 U	1.8 UJ	1.8 U	1.8 U	1.7 J
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	93	130 J	1.9 U	1.9 U	1.8 U	1.8 U	3.7	1.8 U	2.0 U	5.5	1.8 UJ	1.8 U	1.8 U	3.9 J
4-Chloro-3-Methylphenol	ug/kg	210 U	210 U	190 U	190 U	180 U	180 U	180 U	180 U	200 U	190 U	180 U	180 U	180 U	210 U
N-Nitroso-Di-N-Propylamine	ug/kg	210 U	210 U	190 U	190 U	180 U	180 U	180 U	180 U	200 U	190 U	180 U	180 U	180 U	210 U
Aniline	ug/kg	630 U	630 U	560 U	580 U	540 U	540 U	530 U	540 U	590 U	580 U	550 U	550 U	530 U	630 U
Benzoic Acid	ug/kg	630 U	630 U	560 U	580 U	540 U	540 U	530 U	540 U	590 U	580 U	550 U	550 U	530 U	2100
Hexachloroethane	ug/kg	210 UJ	210 U	190 U	190 U	180 U	180 U	180 U	180 U	200 U	190 U	180 U	180 U	180 U	210 U
4-Chlorophenyl Phenylether	ug/kg	210 U	210 U	190 U	190 U	180 U	180 U	180 U	180 U	200 U	190 U	180 U	180 U	180 U	210 U
Hexachlorocyclopentadiene	ug/kg	630 U	630 U	560 U	580 U	540 U	540 U	530 U	540 U	590 U	580 U	550 U	550 U	530 U	630 U
Isophorone	ug/kg	210 U	210 U	190 U	190 U	180 U	180 U	180 U	180 U	200 U	190 U	180 U	180 U	180 U	210 U
Acenaphthene	ug/kg	10 U	13 J	1.9 U	1.9 U	1.8 U	1.8 U	1.8 U	1.8 U	2.0 U	9.7 U	1.8 UJ	1.8 U	1.8 U	2.1 UJ
Diethylphthalate (8270C)	ug/kg	210 U	210 U	--	--	--	--	--	--	--	190 U	--	--	--	--
Diethylphthalate (8270C SIM)	ug/kg	--	--	20 U	21 U	20 U	19 U	19 U	19 U	21 U	--	20 UJ	20 U	19 U	23 UJ
Di-n-Butylphthalate (8270C)	ug/kg	210 U	100	--	--	--	--	--	--	--	190 U	--	--	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	--	--	20 U	21 U	20 U	19 U	19 U	19 U	21 U	--	20 UJ	20 U	19 U	13 J
Phenanthrene (8270C)	ug/kg	140	--	--	--	--	--	--	--	--	26	--	--	--	89
Phenanthrene (8270C SIM)	ug/kg	--	200 J	1.9 U	1.9 U	1.8 U	1.8 U	4.8	1.8 U	2.0 U	--	2.6 UJ	1.8 U	1.8 U	--
Butylbenzylphthalate (8270C)	ug/kg	43	130	--	--	--	--	--	--	--	190 U	--	--	--	27
Butylbenzylphthalate (8270C SIM)	ug/kg	--	--	20 U	21 U	20 U	19 U	19 U	19 U	21 U	--	20 UJ	20 U	19 U	--
N-Nitrosodiphenylamine	ug/kg	210 U	210 U	190 U	190 U	180 U	180 U	180 U	180 U	200 U	190 U	180 U	180 U	180 U	210 U
Fluorene	ug/kg	10 U	11 J	1.9 U	1.9 U	1.8 U	1.8 U	1.8 U	1.8 U	2.0 U	9.7 U	1.8 UJ	1.8 U	1.8 U	2.1 UJ
Carbazole	ug/kg	210 U	21	190 U	190 U	180 U	180 U	180 UJ	180 U	200 U	190 U	180 U	180 U	180 U	210 U
Pentachlorophenol	ug/kg	630 U	630 U	560 U	580 U	540 U	540 U	530 U	540 U	590 U	580 U	550 U	550 U	530 U	630 U
2,4,6-Trichlorophenol	ug/kg	210 U	210 U	190 U	190 U	180 U	180 U	180 U	180 U	200 U	190 U	180 U	180 U	180 U	210 U
2-Nitroaniline	ug/kg	210 U	210 U	190 U	190 U	180 U	180 U	180 U	180 U	200 U	190 U	180 U	180 U	180 U	210 UJ
2-Nitrophenol	ug/kg	210 UJ	210 U	190 U	190 U	180 U	180 U	180 U	180 U	200 U	190 U	180 U	180 U	180 U	210 U
1-Methylnaphthalene (8270C)	ug/kg	--	52	--	--	--	--	--	--	--	--	--	--	--	210 U
1-Methylnaphthalene (8270C SIM)	ug/kg	6.7	--	1.9 U	1.9 U	1.8 U	1.8 U	0.73	1.8 U	2.0 U	9.7 U	1.8 UJ	1.8 U	1.8 U	--
Naphthalene (8270C)	ug/kg	--	23	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene (8270C SIM)	ug/kg	8.9	--	1.9 U	1.9 U	1.8 U	1.8 U	0.98	1.8 U	2.0 U	5.8 J	1.8 UJ	1.8 U	1.8 U	4.1 J

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

Appendix A6
Semivolatile Organics - Validated Data
HSA-5C

Sample Name		SL-116-SA5C-SS-0.0-0.5	SL-117-SA5C-SS-0.0-0.5	SL-118-SA5C-SB-4.0-5.0	SL-118-SA5C-SB-9.0-10.0	SL-119-SA5C-SB-4.0-5.0	SL-119-SA5C-SB-6.0-7.0	SL-120-SA5C-SS-0.0-0.5	SL-120-SA5C-SB-4.0-5.0	SL-120-SA5C-SB-9.0-10.0	SL-121-SA5C-SS-0.0-0.5	SL-122-SA5C-SS-0.0-0.5	SL-122-SA5C-SB-4.0-5.0	SL-122-SA5C-SB-9.0-10.0	SL-123-SA5C-SS-0.0-0.5
Sample Date		10/19/2010	10/19/2010	11/03/2010	11/03/2010	11/03/2010	11/03/2010	10/19/2010	11/03/2010	11/03/2010	10/19/2010	10/19/2010	11/05/2010	11/05/2010	10/19/2010
SDG		DOE01	DOE01	DE008	DE008	DE008	DE008	DOE01	DE008	DE008	DOE01	DOE01	DE010	DE010	DOE01
Start Depth		0	0	4	9	4	6	0	4	9	0	0	4	9	0
End Depth		0.5	0.5	5	10	5	7	0.5	5	10	0.5	0.5	5	10	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
2-Methylnaphthalene (8270C)	ug/kg	210 UJ	51	--	--	--	--	--	--	--	--	--	--	--	49 J
2-Methylnaphthalene (8270C SIM)	ug/kg	--	--	1.9 U	1.9 U	1.8 U	1.8 U	0.95	1.8 U	2.0 U	9.7 U	1.8 UJ	1.8 U	1.8 U	--
2-Chloronaphthalene	ug/kg	210 UJ	210 U	190 U	190 U	180 U	180 U	180 U	180 U	200 U	190 U	180 U	180 U	180 U	210 U
3,3`-Dichlorobenzidine	ug/kg	420 UJ	420 U	370 U	380 U	360 U	360 U	350 U	360 U	390 U	390 U	370 U	370 U	350 U	420 UJ
Benzidine	ug/kg	4200 UJ	4200 U	3700 U	3800 U	3600 U	3600 U	3500 U	3600 U	3900 U	3900 U	3700 U	3700 U	3500 U	4200 UJ
2-Methylphenol	ug/kg	210 UJ	210 U	190 U	190 U	180 U	180 U	180 U	180 U	200 U	190 U	180 U	180 U	180 U	210 U
2-Chlorophenol	ug/kg	210 UJ	210 U	190 U	190 U	180 U	180 U	180 U	180 U	200 U	190 U	180 U	180 U	180 U	210 U
2,4,5-Trichlorophenol	ug/kg	210 UJ	210 U	190 U	190 U	180 U	180 U	180 U	180 U	200 U	190 U	180 U	180 U	180 U	210 U
3-Nitroaniline	ug/kg	210 UJ	210 U	190 U	190 U	180 U	180 U	180 U	180 U	200 U	190 U	180 U	180 U	180 U	210 U
Benzyl Alcohol	ug/kg	630 U	630 U	560 U	580 U	540 U	540 U	530 U	540 U	590 U	580 U	550 U	550 U	530 U	630 U
2,6-Dinitrotoluene	ug/kg	210 U	210 U	190 U	190 U	180 U	180 U	180 UJ	180 U	200 U	190 U	180 U	180 U	180 U	210 U

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

Appendix A6
Semivolatile Organics - Validated Data
HSA-5C

Sample Name		SL-124-SA5C-SS-0.0-0.5	SL-124-SA5C-SB-4.5-5.5	SL-125-SA5C-SS-0.0-0.5	SL-125-SA5C-SB-4.0-6.0	SL-125-SA5C-SB-7.0-9.0	SL-126-SA5C-SB-4.0-5.0	SL-126-SA5C-SB-9.0-10.0	SL-127-SA5C-SS-0.0-0.5	SL-127-SA5C-SB-4.0-5.0	SL-127-SA5C-SB-7.5-8.5	SL-128-SA5C-SS-0.0-0.5	SL-128-SA5C-SB-4.0-5.0	SL-128-SA5C-SB-8.0-9.0	SL-129-SA5C-SS-0.0-0.5
Sample Date		10/20/2010	01/05/2011	10/18/2010	11/01/2010	11/01/2010	11/02/2010	11/02/2010	10/18/2010	11/01/2010	11/01/2010	10/18/2010	11/02/2010	11/02/2010	10/18/2010
SDG		DE001	DE053	DOE01	DE006	DE006	DE007	DE007	DOE01	DE006	DE006	DOE01	DE007	DE007	DOE01
Start Depth		0	4.5	0	4	7	4	9	0	4	7.5	0	4	8	0
End Depth		0.5	5.5	0.5	6	9	5	10	0.5	5	8.5	0.5	5	9	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	6-SA5C-SB-9.(	Result	Result	Result	Result	Result	Result	Result
N-Nitrosodimethylamine (1625C)	ng/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	19 U	1.9 U	8.8 U	1.8 U	1.8 U	1.9 U	1.8 U	1.8	1.8 U	1.8 U	15	1.9 U	1.8 U	15
2,4-Dinitrotoluene	ug/kg	190 U	190 U	180 UJ	180 U	180 U	190 U	180 U	190 U	180 U	180 U	180 U	190 U	180 U	180 UJ
Nitrobenzene	ug/kg	190 U	190 U	180 U	180 U	180 U	190 U	180 U	190 UJ	180 U	180 U	180 U	190 U	180 U	180 U
1,4-Dichlorobenzene	ug/kg	190 U	190 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U	180 U	190 U	180 U	180 UJ
1,2,4-Trichlorobenzene	ug/kg	190 U	190 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U	180 U	190 U	180 U	180 UJ
1,3-Dichlorobenzene	ug/kg	190 U	190 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U	180 U	190 U	180 U	180 U
Hexachlorobutadiene	ug/kg	190 U	190 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U	180 U	190 U	180 U	180 U
1,2-Dichlorobenzene	ug/kg	190 UJ	190 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U	180 U	190 U	180 U	180 U
4-Nitroaniline	ug/kg	190 U	190 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U	180 U	190 U	180 U	180 U
4-Nitrophenol	ug/kg	560 U	560 U	530 U	550 U	550 U	560 U	550 U	570 U	550 U	530 U	540 U	570 U	540 U	540 UJ
4-Bromophenyl Phenyl Ether	ug/kg	190 U	190 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U	180 U	190 U	180 U	180 UJ
2,4-Dimethylphenol	ug/kg	190 U	190 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U	180 U	190 U	180 U	180 UJ
4-Methylphenol	ug/kg	190 U	190 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U	180 U	190 U	180 U	180 UJ
4-Chloroaniline	ug/kg	190 U	190 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U	180 U	190 U	180 U	180 UJ
3,5-Dimethylphenol	ug/kg	190 U	190 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U	180 U	190 U	180 U	180 UJ
Phenol	ug/kg	190 U	190 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U	180 U	190 U	180 U	180 UJ
Bis(2-Chloroethyl) ether	ug/kg	190 U	190 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U	180 U	190 U	180 U	180 UJ
Bis(2-Chloroethoxy) methane	ug/kg	190 U	190 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U	180 U	190 U	180 U	180 UJ
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	--	--	43	19 J	--	--	--	31	--	--	56	--	--	51 J
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	200 U	10 J	--	--	20 U	20 U	20 U	--	20 U	19 U	--	21 U	19 UJ	--
Di-N-Octyl Phthalate (8270C)	ug/kg	190 U	--	35	--	--	--	--	20	--	--	25	--	--	23 J
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	--	20 U	--	20 U	20 U	20 U	20 U	--	20 U	19 U	--	9.4 J	19 U	--
Hexachlorobenzene	ug/kg	190 U	190 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U	180 U	190 U	180 U	180 UJ
Anthracene	ug/kg	440	1.9 U	8.9 J	1.8 U	1.8 U	1.9 U	1.8 U	1.9 U	1.8 U	1.8 U	1.9	1.9 U	1.8 U	3.5
2,4-Dichlorophenol	ug/kg	190 U	190 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U	180 UJ	190 U	180 U	180 UJ
1,2-Diphenylhydrazine	ug/kg	190 U	190 U	180 UJ	180 U	180 U	190 U	180 U	190 U	180 U	180 U	180 U	190 U	180 U	180 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	7600	1.9 U	130	1.8 U	1.8 U	1.9 U	1.8 U	1.9 U	1.8 U	1.8 U	9.7	1.9 U	1.8 U	13
Dimethylphthalate (8270C)	ug/kg	190 U	--	--	--	--	--	--	--	--	--	--	--	--	--
Dimethylphthalate (8270C SIM)	ug/kg	--	20 U	95 U	20 U	20 U	20 U	20 U	21 U	20 U	19 U	19 U	21 U	19 U	20 U
Dibenzofuran	ug/kg	190 U	190 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U	180 UJ	190 U	180 U	180 UJ
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	24	--	--	--	--	--	--	--	63	--	--	47
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	570	1.9 U	--	1.8 U	1.8 U	1.9 U	1.8 U	1.9 U	1.8 U	1.8 U	--	1.9 U	1.8 UJ	--
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	19	--	--	--	--	--	--	--	57 J	--	--	40 J
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	620	1.9 U	--	1.8 U	1.8 U	1.9 U	1.8 U	1.9 U	1.8 U	1.8 U	--	1.9 U	1.8 UJ	--
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	76	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	2700	1.9 U	50	1.8 U	1.8 U	1.9 U	1.8 U	1.6	1.8 U	1.8 U	--	1.9 U	1.8 UJ	57
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	44 J	--	--	--
Fluoranthene (8270C SIM)	ug/kg	8400	1.9 U	250 J	1.8 U	1.8 U	1.9 U	1.8 U	0.83	1.8 U	1.8 U	--	1.9 U	1.8 U	19 J
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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

Appendix A6
Semivolatile Organics - Validated Data
HSA-5C

Sample Name		SL-124-SA5C-SS-0.0-0.5	SL-124-SA5C-SB-4.5-5.5	SL-125-SA5C-SS-0.0-0.5	SL-125-SA5C-SB-4.0-6.0	SL-125-SA5C-SB-7.0-9.0	SL-126-SA5C-SB-4.0-5.0	SL-126-SA5C-SB-9.0-10.0	SL-127-SA5C-SS-0.0-0.5	SL-127-SA5C-SB-4.0-5.0	SL-127-SA5C-SB-7.5-8.5	SL-128-SA5C-SS-0.0-0.5	SL-128-SA5C-SB-4.0-5.0	SL-128-SA5C-SB-8.0-9.0	SL-129-SA5C-SS-0.0-0.5
Sample Date		10/20/2010	01/05/2011	10/18/2010	11/01/2010	11/01/2010	11/02/2010	11/02/2010	10/18/2010	11/01/2010	11/01/2010	10/18/2010	11/02/2010	11/02/2010	10/18/2010
SDG		DE001	DE053	DOE01	DE006	DE006	DE007	DE007	DOE01	DE006	DE006	DOE01	DE007	DE007	DOE01
Start Depth		0	4.5	0	4	7	4	9	0	4	7.5	0	4	8	0
End Depth		0.5	5.5	0.5	6	9	5	10	0.5	5	8.5	0.5	5	9	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	6-SA5C-SB-9.(	Result	Result	Result	Result	Result	Result	Result
Benzo(k)fluoranthene (8270C SIM)	ug/kg	1100	1.9 U	14 J	1.8 U	1.8 U	1.9 U	1.8 U	1.9 U	1.8 U	1.8 U	10	1.9 U	1.8 U	14
Acenaphthylene	ug/kg	19 U	1.9 U	3.8 J	1.8 U	1.8 U	1.9 U	1.8 U	1.9 U	1.8 U	1.8 U	0.75	1.9 U	1.8 U	0.81
Chrysene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	45	--	--	20
Chrysene (8270C SIM)	ug/kg	3400	1.9 U	56	1.8 U	1.8 U	1.9 U	1.8 U	0.85	1.8 U	1.8 U	--	1.9 U	1.8 UJ	--
bis(2-Chloroisopropyl) ether	ug/kg	190 U	190 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U	180 U	190 U	180 U	180 UJ
Benzo(a)pyrene (8270C)	ug/kg	--	--	18	--	--	--	--	--	--	--	41	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	1800	1.9 U	--	1.8 U	1.8 U	1.9 U	1.8 U	1.9 U	1.8 U	1.8 U	--	1.9 U	1.8 U	17
2,4-Dinitrophenol	ug/kg	2200 U	2300 U	2100 U	2200 U	2200 U	2300 U	2200 U	2300 U	2200 U	2100 U	2100 U	2300 U	2200 U	2200 U
4,6-Dinitro-2-Methylphenol	ug/kg	560 U	560 U	530 U	550 U	550 U	560 U	550 U	570 U	550 U	530 U	540 U	570 U	540 U	540 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	230	1.9 U	8.8 U	1.8 U	1.8 U	1.9 U	1.8 U	1.9 U	1.8 U	1.8 U	3.4	1.9 U	1.8 U	3.2
Benzo(a)anthracene (8270C)	ug/kg	--	--	19	--	--	--	--	--	--	--	38	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	3000	1.9 U	--	1.8 U	1.8 U	1.9 U	1.8 U	1.9 U	1.8 U	1.8 U	--	1.9 U	1.8 U	9.4
4-Chloro-3-Methylphenol	ug/kg	190 U	190 U	180 U	180 U	180 U	190 U	180 U	190 UJ	180 U	180 U	180 U	190 U	180 U	180 U
N-Nitroso-Di-N-Propylamine	ug/kg	190 U	190 U	180 U	180 U	180 U	190 U	180 U	190 UJ	180 U	180 U	180 U	190 U	180 U	180 U
Aniline	ug/kg	560 U	560 U	530 U	550 U	550 U	560 U	550 U	570 U	550 U	530 U	540 U	570 U	540 U	540 U
Benzoic Acid	ug/kg	560 U	560 U	530 U	550 U	550 U	560 U	550 U	570 U	550 U	530 U	540 U	570 U	540 U	540 U
Hexachloroethane	ug/kg	190 U	190 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U	180 U	190 U	180 U	180 U
4-Chlorophenyl Phenylether	ug/kg	190 U	190 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U	180 U	190 U	180 U	180 U
Hexachlorocyclopentadiene	ug/kg	560 U	560 U	530 U	550 U	550 U	560 U	550 U	570 U	550 U	530 U	540 U	570 U	540 U	540 UJ
Isophorone	ug/kg	190 U	190 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U	180 U	190 U	180 U	180 U
Acenaphthene	ug/kg	92	1.9 U	8.8 U	1.8 U	1.8 U	1.9 U	1.8 U	1.9 U	1.8 U	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U
Diethylphthalate (8270C)	ug/kg	190 U	--	--	--	--	--	--	--	--	--	--	--	--	--
Diethylphthalate (8270C SIM)	ug/kg	--	20 U	95 U	20 U	20 U	20 U	20 U	21 U	20 U	19 U	19 U	21 U	19 U	20 U
Di-n-Butylphthalate (8270C)	ug/kg	190 U	--	--	--	--	--	--	--	--	--	--	--	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	--	20 U	95 U	20 U	20 U	20 U	20 U	21 U	20 U	19 U	19 U	21 U	19 U	20 U
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	3000	0.75 J	92	1.8 U	1.8 U	1.9 U	1.8 U	1.9 U	1.8 U	1.8 U	8.4	1.9 U	1.8 U	17
Butylbenzylphthalate (8270C)	ug/kg	190 U	--	24	--	--	--	--	--	--	--	--	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	--	20 U	--	20 U	20 U	20 U	20 U	21 U	20 U	19 U	19 U	21 U	19 U	20 U
N-Nitrosodiphenylamine	ug/kg	190 U	190 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U	180 U	190 U	180 U	180 UJ
Fluorene	ug/kg	53	1.9 U	8.8 U	1.8 U	1.8 U	1.9 U	1.8 U	1.9 U	1.8 U	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U
Carbazole	ug/kg	190 U	190 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U	180 UJ	190 U	180 U	180 UJ
Pentachlorophenol	ug/kg	560 U	560 U	530 U	550 U	550 U	560 U	550 U	570 U	550 U	530 U	540 U	570 U	540 U	540 U
2,4,6-Trichlorophenol	ug/kg	190 U	190 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U	180 U	190 U	180 U	180 U
2-Nitroaniline	ug/kg	190 U	190 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U	180 U	190 U	180 U	180 U
2-Nitrophenol	ug/kg	190 U	190 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U	180 U	190 U	180 U	180 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	19 U	1.9 U	8.8 U	1.8 U	1.8 U	1.9 U	1.8 U	1.9 U	1.8 U	1.8 U	1.1	1.9 U	1.8 U	1.2
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene (8270C SIM)	ug/kg	11 J	1.9 U	5.5	1.8 U	1.8 U	1.9 U	1.8 U	1.9 U	1.8 U	1.8 U	1.3	1.9 U	1.8 U	1.8

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Appendix A6
Semivolatile Organics - Validated Data
HSA-5C

Sample Name		SL-124-SA5C-SS-0.0-0.5	SL-124-SA5C-SB-4.5-5.5	SL-125-SA5C-SS-0.0-0.5	SL-125-SA5C-SB-4.0-6.0	SL-125-SA5C-SB-7.0-9.0	SL-126-SA5C-SB-4.0-5.0	SL-126-SA5C-SB-9.0-10.0	SL-127-SA5C-SS-0.0-0.5	SL-127-SA5C-SB-4.0-5.0	SL-127-SA5C-SB-7.5-8.5	SL-128-SA5C-SS-0.0-0.5	SL-128-SA5C-SB-4.0-5.0	SL-128-SA5C-SB-8.0-9.0	SL-129-SA5C-SS-0.0-0.5
Sample Date		10/20/2010	01/05/2011	10/18/2010	11/01/2010	11/01/2010	11/02/2010	11/02/2010	10/18/2010	11/01/2010	11/01/2010	10/18/2010	11/02/2010	11/02/2010	10/18/2010
SDG		DE001	DE053	DOE01	DE006	DE006	DE007	DE007	DOE01	DE006	DE006	DOE01	DE007	DE007	DOE01
Start Depth		0	4.5	0	4	7	4	9	0	4	7.5	0	4	8	0
End Depth		0.5	5.5	0.5	6	9	5	10	0.5	5	8.5	0.5	5	9	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	6-SA5C-SB-9.(	Result	Result	Result	Result	Result	Result	Result
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	19 U	1.9 U	8.8 U	1.8 U	1.8 U	1.9 U	1.8 U	1.9 U	1.8 U	1.8 U	1.6	1.9 U	1.8 U	1.8
2-Chloronaphthalene	ug/kg	190 U	190 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U	180 U	190 U	180 U	180 U
3,3`-Dichlorobenzidine	ug/kg	370 U	380 U	350 U	370 U	360 U	380 U	370 U	380 U	370 U	360 U	360 U	380 U	360 U	360 U
Benzidine	ug/kg	3700 U	3800 U	3500 U	3700 U	3600 U	3800 U	3700 U	3800 U	3700 U	3600 U	3600 U	3800 R	3600 U	3600 U
2-Methylphenol	ug/kg	190 U	190 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U	180 U	190 U	180 U	180 U
2-Chlorophenol	ug/kg	190 U	190 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U	180 U	190 U	180 U	180 U
2,4,5-Trichlorophenol	ug/kg	190 U	190 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U	180 U	190 U	180 U	180 U
3-Nitroaniline	ug/kg	190 U	190 U	180 U	180 U	180 U	190 U	180 U	190 UJ	180 U	180 U	180 U	190 U	180 U	180 U
Benzyl Alcohol	ug/kg	560 U	560 U	530 U	550 U	550 U	560 U	550 U	570 U	550 U	530 U	540 U	570 U	540 U	540 UJ
2,6-Dinitrotoluene	ug/kg	190 U	190 U	180 U	180 U	180 U	190 U	180 U	190 UJ	180 U	180 U	180 U	190 U	180 U	180 U

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

Appendix A6
Semivolatile Organics - Validated Data
HSA-5C

Sample Name		SL-129-SA5C-SB-4.0-5.0	SL-129-SA5C-SB-9.0-10.0	SL-130-SA5C-SS-0.0-0.5	SL-130-SA5C-SB-4.0-5.0	SL-130-SA5C-SB-9.0-10.0	SL-131-SA5C-SB-4.0-5.0	SL-131-SA5C-SB-8.5-9.5	SL-132-SA5C-SS-0.0-0.5	SL-132-SA5C-SB-4.0-5.0	SL-133-SA5C-SS-0.0-0.5	SL-133-SA5C-SB-4.0-5.0	SL-133-SA5C-SB-8.0-9.0	SL-134-SA5C-SS-0.0-0.5	SL-134-SA5C-SB-4.0-5.0
Sample Date		11/05/2010	11/05/2010	10/18/2010	11/03/2010	11/03/2010	11/04/2010	11/04/2010	10/18/2010	11/04/2010	10/18/2010	11/04/2010	11/04/2010	10/19/2010	11/04/2010
SDG		DE010	DE010	DOE01	DE008	DE008	DE009	DE009	DOE01	DE009	DOE01	DE009	DE009	DOE01	DE009
Start Depth		4	9	0	4	9	4	8.5	0	4	0	4	8	0	4
End Depth		5	10	0.5	5	10	5	9.5	0.5	5	0.5	5	9	0.5	5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
N-Nitrosodimethylamine (1625C)	ng/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.9 U	1.9 U	16	1.9 U	1.9 U	1.8 U	1.8 U	13 J	1.9 U	2.5	1.9 U	1.8 U	14	1.9 U
2,4-Dinitrotoluene	ug/kg	190 U	190 U	180 UJ	190 U	190 U	180 U	180 U	200 U	190 U	180 R	190 U	180 U	180 U	190 U
Nitrobenzene	ug/kg	190 U	190 U	180 U	190 U	190 U	180 U	180 U	200 U	190 U	180 U	190 U	180 U	180 U	190 U
1,4-Dichlorobenzene	ug/kg	190 U	190 U	180 U	190 U	190 U	180 U	180 U	200 U	190 U	180 U	190 U	180 U	180 U	190 U
1,2,4-Trichlorobenzene	ug/kg	190 U	190 U	180 U	190 U	190 U	180 U	180 U	200 U	190 U	180 R	190 U	180 U	180 U	190 U
1,3-Dichlorobenzene	ug/kg	190 U	190 U	180 U	190 U	190 U	180 U	180 U	200 U	190 U	180 U	190 U	180 U	180 U	190 U
Hexachlorobutadiene	ug/kg	190 U	190 U	180 UJ	190 U	190 U	180 U	180 U	200 U	190 U	180 U	190 U	180 U	180 U	190 U
1,2-Dichlorobenzene	ug/kg	190 U	190 U	180 U	190 U	190 U	180 U	180 U	200 UJ	190 U	180 U	190 U	180 U	180 U	190 U
4-Nitroaniline	ug/kg	190 U	190 U	180 U	190 U	190 U	180 U	180 U	200 U	190 U	180 U	190 U	180 U	180 U	190 U
4-Nitrophenol	ug/kg	560 U	580 U	530 UJ	560 U	560 U	530 U	530 U	600 U	560 U	530 U	560 U	530 U	540 U	560 U
4-Bromophenyl Phenyl Ether	ug/kg	190 U	190 U	180 U	190 U	190 U	180 U	180 U	200 UJ	190 U	180 U	190 U	180 U	180 U	190 U
2,4-Dimethylphenol	ug/kg	190 U	190 U	180 U	190 U	190 U	180 U	180 U	200 UJ	190 U	180 U	190 U	180 U	180 U	190 U
4-Methylphenol	ug/kg	190 U	190 U	180 U	190 U	190 U	180 U	180 U	200 U	190 U	180 U	190 U	180 U	180 U	190 U
4-Chloroaniline	ug/kg	190 U	190 U	180 U	190 U	190 U	180 U	180 U	200 U	190 U	180 U	190 U	180 U	180 U	190 U
3,5-Dimethylphenol	ug/kg	190 U	190 U	180 U	190 U	190 U	180 U	180 U	200 U	190 U	180 UJ	190 U	180 U	180 U	190 U
Phenol	ug/kg	190 U	190 U	180 U	190 U	190 U	180 U	180 U	200 U	190 U	180 U	190 U	180 U	180 U	190 U
Bis(2-Chloroethyl) ether	ug/kg	190 U	190 U	180 U	190 U	190 U	180 U	180 U	200 U	190 U	180 R	190 U	180 U	180 U	190 U
Bis(2-Chloroethoxy) methane	ug/kg	190 U	190 U	180 U	190 U	190 U	180 U	180 U	200 U	190 U	180 UJ	190 U	180 U	180 U	190 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	--	--	52	--	--	--	--	50	--	53 J	--	--	46	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	20 U	21 U	--	20 U	20 U	19 U	19 U	--	20 U	--	6.9 J	19 U	--	20 U
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	20 J	--	--	--	--	25	--	24 R	--	--	19	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	20 U	21 U	--	20 U	20 U	19 U	19 U	--	20 U	--	20 U	19 U	--	20 U
Hexachlorobenzene	ug/kg	190 U	190 U	180 U	190 U	190 U	180 U	180 U	200 U	190 U	180 R	190 U	180 U	180 U	190 U
Anthracene	ug/kg	1.9 U	1.9 U	3.4	1.9 U	1.9 U	1.8 U	1.8 U	2.0 U	1.9 U	5.1	0.86 J	1.8 U	3.2	1.9 U
2,4-Dichlorophenol	ug/kg	190 U	190 U	180 UJ	190 U	190 U	180 U	180 U	200 U	190 U	180 R	190 U	180 U	180 U	190 U
1,2-Diphenylhydrazine	ug/kg	190 U	190 U	180 UJ	190 U	190 U	180 U	180 U	200 U	190 U	180 R	190 U	180 U	180 U	190 U
Pyrene (8270C)	ug/kg	--	--	21 J	--	--	--	--	--	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	1.9 U	1.9 U	--	1.9 U	1.9 U	1.8 U	1.8 U	1.0	1.9 U	18	3.1	1.8 U	8.9	1.9 U
Dimethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dimethylphthalate (8270C SIM)	ug/kg	20 U	21 U	19 U	20 U	20 U	19 U	19 U	22 U	20 U	19 U	20 U	19 U	19 U	20 U
Dibenzofuran	ug/kg	190 U	190 U	180 U	190 U	190 U	180 U	180 U	200 U	190 U	180 R	190 U	180 U	180 U	190 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	72	--	--	--	--	--	--	72 R	--	--	43	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	1.9 U	1.9 U	--	1.9 U	1.9 U	1.8 U	1.0 J	2.0 U	1.9 U	--	13	1.8 U	--	1.9 U
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	69	--	--	--	--	--	--	72 R	--	--	50	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	1.9 U	1.9 U	--	1.9 U	1.9 U	1.8 U	0.99 J	2.0 U	1.9 U	--	13	1.8 U	--	1.9 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	68	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	1.9 U	1.9 U	--	1.9 U	1.9 U	1.8 U	0.82 J	3.9	1.9 U	68	8.9	1.8 U	52	1.9 U
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	1.9 U	1.9 U	22	1.9 U	1.9 U	1.8 U	1.8 U	1.5	1.9 U	24	2.7	1.8 U	12	1.9 U
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	180 R	--	--	180 U	--

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

Appendix A6
Semivolatile Organics - Validated Data
HSA-5C

Sample Name		SL-129-SA5C-SB-4.0-5.0	SL-129-SA5C-SB-9.0-10.0	SL-130-SA5C-SS-0.0-0.5	SL-130-SA5C-SB-4.0-5.0	SL-130-SA5C-SB-9.0-10.0	SL-131-SA5C-SB-4.0-5.0	SL-131-SA5C-SB-8.5-9.5	SL-132-SA5C-SS-0.0-0.5	SL-132-SA5C-SB-4.0-5.0	SL-133-SA5C-SS-0.0-0.5	SL-133-SA5C-SB-4.0-5.0	SL-133-SA5C-SB-8.0-9.0	SL-134-SA5C-SS-0.0-0.5	SL-134-SA5C-SB-4.0-5.0
Sample Date		11/05/2010	11/05/2010	10/18/2010	11/03/2010	11/03/2010	11/04/2010	11/04/2010	10/18/2010	11/04/2010	10/18/2010	11/04/2010	11/04/2010	10/19/2010	11/04/2010
SDG		DE010	DE010	DOE01	DE008	DE008	DE009	DE009	DOE01	DE009	DOE01	DE009	DE009	DOE01	DE009
Start Depth		4	9	0	4	9	4	8.5	0	4	0	4	8	0	4
End Depth		5	10	0.5	5	10	5	9.5	0.5	5	0.5	5	9	0.5	5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Benzo(k)fluoranthene (8270C SIM)	ug/kg	1.9 U	1.9 U	11	1.9 U	1.9 U	1.8 U	1.8 U	2.0 U	1.9 U	--	2.5	1.8 U	--	1.9 U
Acenaphthylene	ug/kg	1.9 U	1.9 U	0.59	1.9 U	1.9 U	1.8 U	1.8 U	2.0 U	1.9 U	0.94	1.9 U	1.8 U	0.83	1.9 U
Chrysene (8270C)	ug/kg	--	--	26 J	--	--	--	--	--	--	24 R	--	--	19	--
Chrysene (8270C SIM)	ug/kg	1.9 U	1.9 U	--	1.9 U	1.9 U	0.43 J	0.50 J	2.0 UJ	1.9 U	--	4.3	1.8 U	--	1.9 U
bis(2-Chloroisopropyl) ether	ug/kg	190 U	190 U	180 U	190 U	190 U	180 U	180 U	200 U	190 U	180 R	190 U	180 U	180 U	190 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	19	--	--	--	--	--	--	--	--	--	18	--
Benzo(a)pyrene (8270C SIM)	ug/kg	1.9 U	1.9 U	--	1.9 U	1.9 U	1.8 U	1.8 U	1.1 J	1.9 U	20	2.9	1.8 U	--	1.9 U
2,4-Dinitrophenol	ug/kg	2200 U	2300 U	2100 UJ	2300 U	2200 U	2100 U	2100 U	2400 U	2300 U	2100 R	2300 U	2100 U	2200 U	2200 U
4,6-Dinitro-2-Methylphenol	ug/kg	560 U	580 U	530 U	560 U	560 U	530 U	530 U	600 U	560 U	530 R	560 U	530 U	540 U	560 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.7	1.9 U	1.9 U	1.8 U	1.8 U	2.0 UJ	1.9 U	7.9	1.8 J	1.8 U	2.7	1.9 U
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	1.9 U	1.9 U	7.5	1.9 U	1.9 U	1.8 U	1.8 U	2.0 UJ	1.9 U	11	1.9	1.8 U	7.2	1.9 U
4-Chloro-3-Methylphenol	ug/kg	190 U	190 U	180 UJ	190 U	190 U	180 U	180 U	200 U	190 U	180 U	190 U	180 U	180 U	190 U
N-Nitroso-Di-N-Propylamine	ug/kg	190 U	190 U	180 UJ	190 U	190 U	180 U	180 U	200 U	190 U	180 U	190 U	180 U	180 U	190 U
Aniline	ug/kg	560 U	580 U	530 UJ	560 U	560 U	530 U	530 U	600 U	560 U	530 U	560 U	530 U	540 U	560 U
Benzoic Acid	ug/kg	560 U	580 U	530 UJ	560 U	560 U	530 U	530 U	600 U	560 U	530 UJ	560 U	530 U	540 U	560 U
Hexachloroethane	ug/kg	190 U	190 U	180 UJ	190 U	190 U	180 U	180 U	200 U	190 U	180 UJ	190 U	180 U	180 U	190 U
4-Chlorophenyl Phenylether	ug/kg	190 U	190 U	180 UJ	190 U	190 U	180 U	180 U	200 U	190 U	180 U	190 U	180 U	180 U	190 U
Hexachlorocyclopentadiene	ug/kg	560 U	580 U	530 UJ	560 U	560 U	530 U	530 U	600 U	560 U	530 U	560 U	530 U	540 U	560 U
Isophorone	ug/kg	190 U	190 U	180 UJ	190 U	190 U	180 U	180 U	200 U	190 U	180 U	190 U	180 U	180 U	190 U
Acenaphthene	ug/kg	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U	1.8 U	2.0 UJ	1.9 U	1.8 U	1.9 U	1.8 U	1.8 U	1.9 U
Diethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Diethylphthalate (8270C SIM)	ug/kg	20 U	21 U	19 U	20 U	20 U	19 U	19 U	22 UJ	20 U	19 U	20 U	19 U	19 U	20 U
Di-n-Butylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	20 U	21 U	19 UJ	20 U	20 U	19 U	19 U	22 UJ	20 U	19 U	20 U	19 U	19 U	20 U
Phenanthrene (8270C)	ug/kg	--	--	22 J	--	--	--	--	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	1.9 U	1.9 U	--	1.9 U	1.9 U	1.8 U	1.8 U	1.3 J	1.9 U	24	3.6	1.8 U	13	1.9 U
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	20 U	21 U	19 UJ	20 U	20 U	19 U	19 U	22 UJ	20 U	19 U	20 U	19 U	19 U	20 U
N-Nitrosodiphenylamine	ug/kg	190 U	190 U	180 UJ	190 U	190 U	180 U	180 U	200 U	190 U	180 U	190 U	180 U	180 U	190 U
Fluorene	ug/kg	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U	1.8 U	2.0 UJ	1.9 U	1.8 U	1.9 U	1.8 U	1.8 U	1.9 U
Carbazole	ug/kg	190 U	190 U	180 UJ	190 U	190 U	180 U	180 U	200 U	190 U	180 U	190 U	180 U	180 U	190 U
Pentachlorophenol	ug/kg	560 U	580 U	530 UJ	560 U	560 U	530 U	530 U	600 U	560 U	530 U	560 U	530 U	540 U	560 U
2,4,6-Trichlorophenol	ug/kg	190 U	190 U	180 UJ	190 U	190 U	180 U	180 U	200 U	190 U	180 U	190 U	180 U	180 U	190 U
2-Nitroaniline	ug/kg	190 U	190 U	180 UJ	190 U	190 U	180 U	180 U	200 U	190 U	180 U	190 U	180 U	180 U	190 U
2-Nitrophenol	ug/kg	190 U	190 U	180 UJ	190 U	190 U	180 U	180 U	200 U	190 U	180 U	190 U	180 U	180 U	190 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.4	1.9 U	1.9 U	1.8 U	1.8 U	2.0 UJ	1.9 U	1.5	1.9 U	1.8 U	1.0	1.9 U
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.8	1.9 U	1.9 U	1.8 U	1.8 U	0.81 J	1.9 U	2.1	1.9 U	1.8 U	1.5	1.9 U

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Appendix A6
Semivolatile Organics - Validated Data
HSA-5C

Sample Name		SL-129-SA5C-SB-4.0-5.0	SL-129-SA5C-SB-9.0-10.0	SL-130-SA5C-SS-0.0-0.5	SL-130-SA5C-SB-4.0-5.0	SL-130-SA5C-SB-9.0-10.0	SL-131-SA5C-SB-4.0-5.0	SL-131-SA5C-SB-8.5-9.5	SL-132-SA5C-SS-0.0-0.5	SL-132-SA5C-SB-4.0-5.0	SL-133-SA5C-SS-0.0-0.5	SL-133-SA5C-SB-4.0-5.0	SL-133-SA5C-SB-8.0-9.0	SL-134-SA5C-SS-0.0-0.5	SL-134-SA5C-SB-4.0-5.0
Sample Date		11/05/2010	11/05/2010	10/18/2010	11/03/2010	11/03/2010	11/04/2010	11/04/2010	10/18/2010	11/04/2010	10/18/2010	11/04/2010	11/04/2010	10/19/2010	11/04/2010
SDG		DE010	DE010	DOE01	DE008	DE008	DE009	DE009	DOE01	DE009	DOE01	DE009	DE009	DOE01	DE009
Start Depth		4	9	0	4	9	4	8.5	0	4	0	4	8	0	4
End Depth		5	10	0.5	5	10	5	9.5	0.5	5	0.5	5	9	0.5	5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.9	1.9 U	1.9 U	1.8 U	1.8 U	2.0 UJ	1.9 U	2.2	1.9 U	1.8 U	1.7	1.9 U
2-Chloronaphthalene	ug/kg	190 U	190 U	180 UJ	190 U	190 U	180 U	180 U	200 U	190 U	180 U	190 U	180 U	180 U	190 U
3,3`-Dichlorobenzidine	ug/kg	370 U	380 U	350 U	380 U	370 U	350 U	350 U	400 UJ	380 U	360 U	380 U	350 U	360 U	370 U
Benzidine	ug/kg	3700 U	3800 U	3500 U	3800 U	3700 U	3500 U	3500 U	4000 UJ	3800 U	3600 U	3800 U	3500 U	3600 U	3700 U
2-Methylphenol	ug/kg	190 U	190 U	180 UJ	190 U	190 U	180 U	180 U	200 UJ	190 U	180 U	190 U	180 U	180 U	190 U
2-Chlorophenol	ug/kg	190 U	190 U	180 U	190 U	190 U	180 U	180 U	200 U	190 U	180 U	190 U	180 U	180 U	190 U
2,4,5-Trichlorophenol	ug/kg	190 U	190 U	180 UJ	190 U	190 U	180 U	180 U	200 U	190 U	180 UJ	190 U	180 U	180 U	190 U
3-Nitroaniline	ug/kg	190 U	190 U	180 U	190 U	190 U	180 U	180 U	200 U	190 U	180 U	190 U	180 U	180 U	190 U
Benzyl Alcohol	ug/kg	560 U	580 U	530 U	560 U	560 U	530 U	530 U	600 U	560 U	530 U	560 U	530 U	540 U	560 U
2,6-Dinitrotoluene	ug/kg	190 U	190 U	180 UJ	190 U	190 U	180 U	180 U	200 U	190 U	180 U	190 U	180 U	180 U	190 U

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R – Result is rejected

Appendix A6
Semivolatile Organics - Validated Data
HSA-5C

Sample Name		SL-135-SA5C-SS-0.0-0.5	SL-136-SA5C-SS-0.0-0.5	SL-137-SA5C-SS-0.0-0.5	SL-137-SA5C-SB-4.5-5.5	SL-140-SA5C-SB-3.0-4.0	SL-141-SA5C-SS-0.0-0.5	SL-142-SA5C-SS-0.0-0.5	SL-143-SA5C-SS-0.0-0.5	SL-144-SA5C-SS-0.0-0.5	SL-145-SA5C-SS-0.0-0.5
Sample Date		10/19/2010	10/20/2010	10/20/2010	01/05/2011	12/14/2010	10/20/2010	10/27/2010	10/20/2010	10/20/2010	10/20/2010
SDG		DOE01	DE001	DE001	DE053	DE039	DE001	DE005	DE001	DE001	DE001
Start Depth		0	0	0	4.5	3	0	0	0	0	0
End Depth		0.5	0.5	0.5	5.5	4	0.5	0.5	0.5	0.5	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
N-Nitrosodimethylamine (1625C)	ng/kg	--	--	--	--	--	--	--	--	--	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	9.5 U	20 U	19 U	1.9 U	1.9 U	19 U	1.9 U	19 U	20 U	22 U
2,4-Dinitrotoluene	ug/kg	190 U	200 U	190 U	190 U	190 U	190 U	190 U	190 U	200 U	220 U
Nitrobenzene	ug/kg	190 U	200 U	190 U	190 U	190 U	190 U	190 U	190 U	200 U	220 U
1,4-Dichlorobenzene	ug/kg	190 U	200 U	190 U	190 U	190 U	190 U	190 U	190 U	200 U	220 U
1,2,4-Trichlorobenzene	ug/kg	190 U	200 U	190 U	190 U	190 U	190 U	190 U	190 U	200 U	220 U
1,3-Dichlorobenzene	ug/kg	190 U	200 U	190 U	190 U	190 U	190 U	190 U	190 U	200 U	220 U
Hexachlorobutadiene	ug/kg	190 U	200 U	190 U	190 U	190 U	190 U	190 U	190 U	200 U	220 U
1,2-Dichlorobenzene	ug/kg	190 U	200 UJ	190 UJ	190 U	190 U	190 UJ	190 U	190 UJ	200 UJ	220 UJ
4-Nitroaniline	ug/kg	190 U	200 U	190 U	190 U	190 U	190 U	190 U	190 U	200 U	220 U
4-Nitrophenol	ug/kg	570 U	590 U	570 U	570 U	560 U	570 U	570 U	570 U	590 U	650 U
4-Bromophenyl Phenyl Ether	ug/kg	190 U	200 U	190 U	190 U	190 U	190 U	190 U	190 U	200 U	220 U
2,4-Dimethylphenol	ug/kg	190 U	200 U	190 U	190 U	190 U	190 U	190 U	190 U	200 U	220 U
4-Methylphenol	ug/kg	190 U	200 U	190 U	190 U	190 U	190 U	190 U	190 U	200 U	220 U
4-Chloroaniline	ug/kg	190 U	200 U	190 U	190 U	190 U	190 U	190 U	190 U	200 U	220 U
3,5-Dimethylphenol	ug/kg	190 U	200 U	190 U	190 U	190 U	190 U	190 U	190 U	200 U	220 U
Phenol	ug/kg	190 U	200 U	190 U	190 U	190 U	190 U	190 U	190 U	200 U	220 U
Bis(2-Chloroethyl) ether	ug/kg	190 U	200 U	190 U	190 U	190 U	190 U	190 U	190 U	200 U	220 U
Bis(2-Chloroethoxy) methane	ug/kg	190 U	200 U	190 U	190 U	190 U	190 U	190 U	190 U	200 U	220 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	56	--	--	--	50 J	--	42 J	--	--	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	--	210 U	200 U	20 U	--	210 U	--	210 U	210 U	90 J
Di-N-Octyl Phthalate (8270C)	ug/kg	34	200 UJ	190 U	--	--	190 U	--	190 U	200 U	220 U
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	--	--	--	20 U	20 U	--	20 U	--	--	--
Hexachlorobenzene	ug/kg	190 U	200 U	190 U	190 U	190 U	190 U	190 U	190 U	200 U	220 U
Anthracene	ug/kg	3.3	20 U	19 U	1.9 U	1.9 U	19 U	1.9 U	19 U	20 U	22 U
2,4-Dichlorophenol	ug/kg	190 U	200 U	190 U	190 U	190 U	190 U	190 U	190 U	200 U	220 U
1,2-Diphenylhydrazine	ug/kg	190 U	200 U	190 U	190 U	190 U	190 U	190 U	190 U	200 U	220 U
Pyrene (8270C)	ug/kg	--	--	32 J	--	--	--	--	--	24 J	22 J
Pyrene (8270C SIM)	ug/kg	20 J	21	--	1.9 U	1.9 U	19 U	2.9	19 U	--	--
Dimethylphthalate (8270C)	ug/kg	190 U	200 U	190 U	--	--	190 U	--	190 U	200 U	220 U
Dimethylphthalate (8270C SIM)	ug/kg	--	--	--	20 U	20 U	--	20 U	--	--	--
Dibenzofuran	ug/kg	190 U	200 U	190 U	190 U	190 U	190 U	190 U	190 U	200 U	220 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	19 J	--	--	--	--	--	64 J	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	8.5	23 J	--	1.9 U	1.9 U	19 U	1.2 J	19 U	--	22 U
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	5.9	11 J	19 U	1.9 U	1.9 UJ	19 U	0.83 J	19 U	20 U	22 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	25 J	--	--	--	--	--	62 J	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	48	89	--	1.9 U	1.9 U	19 U	1.7 J	19 U	--	21 J
Fluoranthene (8270C)	ug/kg	--	--	26 J	--	--	--	--	--	--	23 J
Fluoranthene (8270C SIM)	ug/kg	27	20 U	--	1.9 U	1.9 UJ	19 U	2.6	9.5 J	10 J	--
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--

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

Appendix A6
Semivolatile Organics - Validated Data
HSA-5C

Sample Name		SL-135-SA5C-SS-0.0-0.5	SL-136-SA5C-SS-0.0-0.5	SL-137-SA5C-SS-0.0-0.5	SL-137-SA5C-SB-4.5-5.5	SL-140-SA5C-SB-3.0-4.0	SL-141-SA5C-SS-0.0-0.5	SL-142-SA5C-SS-0.0-0.5	SL-143-SA5C-SS-0.0-0.5	SL-144-SA5C-SS-0.0-0.5	SL-145-SA5C-SS-0.0-0.5
Sample Date		10/19/2010	10/20/2010	10/20/2010	01/05/2011	12/14/2010	10/20/2010	10/27/2010	10/20/2010	10/20/2010	10/20/2010
SDG		DOE01	DE001	DE001	DE053	DE039	DE001	DE005	DE001	DE001	DE001
Start Depth		0	0	0	4.5	3	0	0	0	0	0
End Depth		0.5	0.5	0.5	5.5	4	0.5	0.5	0.5	0.5	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Benzo(k)fluoranthene (8270C SIM)	ug/kg	15	20 U	19 U	1.9 U	1.9 U	19 U	1.9 U	19 U	20 U	22 U
Acenaphthylene	ug/kg	9.5 U	20 U	19 U	1.9 U	1.9 U	19 U	1.9 U	19 U	20 U	22 U
Chrysene (8270C)	ug/kg	--	--	25 J	--	--	--	--	--	110 J	28 J
Chrysene (8270C SIM)	ug/kg	21	60 J	--	1.9 U	1.9 UJ	19 U	1.9	5.7 J	--	--
bis(2-Chloroisopropyl) ether	ug/kg	190 U	200 U	190 U	190 U	190 U	190 U	190 U	190 U	200 U	220 U
Benzo(a)pyrene (8270C)	ug/kg	--	43 J	--	--	--	--	--	--	130 J	--
Benzo(a)pyrene (8270C SIM)	ug/kg	24	--	19 U	1.9 U	1.9 U	19 U	0.94 J	19 U	--	9.3 J
2,4-Dinitrophenol	ug/kg	2300 U	2400 U	2300 U	2300 U	2200 U	2300 U	2300 U	2300 U	2400 U	2600 U
4,6-Dinitro-2-Methylphenol	ug/kg	570 U	590 U	570 U	570 U	560 U	570 U	570 U	570 U	590 U	650 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	45 J	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	9.5 U	13 J	19 U	1.9 U	1.9 UJ	19 U	1.9 U	19 U	--	22 U
Benzo(a)anthracene (8270C)	ug/kg	--	--	24 J	--	--	--	--	--	23 J	--
Benzo(a)anthracene (8270C SIM)	ug/kg	11	10 J	--	1.9 U	1.9 U	19 U	0.90 J	19 U	--	8.9 J
4-Chloro-3-Methylphenol	ug/kg	190 U	200 U	190 U	190 U	190 U	190 U	190 U	190 U	200 U	220 U
N-Nitroso-Di-N-Propylamine	ug/kg	190 U	200 U	190 U	190 U	190 U	190 U	190 U	190 U	200 U	220 U
Aniline	ug/kg	570 U	590 U	570 U	570 U	560 U	570 U	570 U	570 U	590 U	650 U
Benzoic Acid	ug/kg	570 U	590 U	570 U	570 U	560 U	570 U	570 U	570 U	590 U	650 U
Hexachloroethane	ug/kg	190 U	200 U	190 U	190 U	190 U	190 U	190 U	190 U	200 U	220 U
4-Chlorophenyl Phenylether	ug/kg	190 U	200 U	190 U	190 U	190 U	190 U	190 U	190 U	200 U	220 U
Hexachlorocyclopentadiene	ug/kg	570 U	590 U	570 U	570 U	560 U	570 U	570 U	570 U	590 U	650 U
Isophorone	ug/kg	190 U	200 U	190 U	190 U	190 U	190 U	190 U	190 U	200 U	220 U
Acenaphthene	ug/kg	9.5 U	20 U	19 U	1.9 U	1.9 U	19 U	1.9 U	19 U	20 U	22 U
Diethylphthalate (8270C)	ug/kg	190 U	200 U	190 U	--	--	190 U	--	190 U	200 U	220 U
Diethylphthalate (8270C SIM)	ug/kg	--	--	--	20 U	20 UJ	--	20 U	--	--	--
Di-n-Butylphthalate (8270C)	ug/kg	190 U	200 U	190 U	--	--	190 U	--	190 U	200 U	220 U
Di-n-Butylphthalate (8270C SIM)	ug/kg	--	--	--	20 U	20 UJ	--	20 U	--	--	--
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	18	20 U	8.9 J	1.9 U	1.9 U	19 U	2.4	19 U	26	14 J
Butylbenzylphthalate (8270C)	ug/kg	190 U	--	24 J	--	--	190 U	--	190 U	200 U	220 U
Butylbenzylphthalate (8270C SIM)	ug/kg	--	210 U	--	20 U	20 U	--	20 U	--	--	--
N-Nitrosodiphenylamine	ug/kg	190 U	200 U	190 U	190 U	190 U	190 U	190 U	190 U	200 U	220 U
Fluorene	ug/kg	9.5 U	20 U	19 U	1.9 U	1.9 UJ	19 U	1.9 U	19 U	20 U	22 U
Carbazole	ug/kg	190 U	200 U	190 U	190 U	190 U	190 U	190 U	190 U	200 U	220 U
Pentachlorophenol	ug/kg	570 U	590 U	570 U	570 U	560 U	570 U	570 U	570 U	590 U	650 U
2,4,6-Trichlorophenol	ug/kg	190 U	200 U	190 U	190 U	190 U	190 U	190 U	190 U	200 U	220 U
2-Nitroaniline	ug/kg	190 U	200 U	190 U	190 U	190 U	190 U	190 U	190 U	200 U	220 U
2-Nitrophenol	ug/kg	190 U	200 U	190 U	190 U	190 U	190 U	190 U	190 U	200 U	220 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	9.5 U	20 U	19 U	1.9 U	1.9 U	19 U	1.9 U	19 U	20 U	22 U
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--
Naphthalene (8270C SIM)	ug/kg	5.5	9.7 J	8.2 J	1.9 U	1.9 U	9.0 J	1.9 U	8.6 J	11 J	10 J

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

Appendix A6
Semivolatile Organics - Validated Data
HSA-5C

Sample Name		SL-135-SA5C-SS-0.0-0.5	SL-136-SA5C-SS-0.0-0.5	SL-137-SA5C-SS-0.0-0.5	SL-137-SA5C-SB-4.5-5.5	SL-140-SA5C-SB-3.0-4.0	SL-141-SA5C-SS-0.0-0.5	SL-142-SA5C-SS-0.0-0.5	SL-143-SA5C-SS-0.0-0.5	SL-144-SA5C-SS-0.0-0.5	SL-145-SA5C-SS-0.0-0.5
Sample Date		10/19/2010	10/20/2010	10/20/2010	01/05/2011	12/14/2010	10/20/2010	10/27/2010	10/20/2010	10/20/2010	10/20/2010
SDG		DOE01	DE001	DE001	DE053	DE039	DE001	DE005	DE001	DE001	DE001
Start Depth		0	0	0	4.5	3	0	0	0	0	0
End Depth		0.5	0.5	0.5	5.5	4	0.5	0.5	0.5	0.5	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	9.5 U	20 U	19 U	1.9 U	1.9 U	19 U	1.9 U	19 U	20 U	8.9 J
2-Chloronaphthalene	ug/kg	190 U	200 U	190 U	190 U	190 U	190 U	190 U	190 U	200 U	220 U
3,3`-Dichlorobenzidine	ug/kg	380 U	390 U	380 U	380 U	370 U	380 U	380 U	380 U	390 U	430 U
Benzidine	ug/kg	3800 U	3900 R	3800 U	3800 U	3700 U	3800 U	3800 U	3800 U	3900 U	4300 U
2-Methylphenol	ug/kg	190 U	200 U	190 U	190 U	190 U	190 U	190 U	190 U	200 U	220 U
2-Chlorophenol	ug/kg	190 U	200 U	190 U	190 U	190 U	190 U	190 U	190 U	200 U	220 U
2,4,5-Trichlorophenol	ug/kg	190 U	200 U	190 U	190 U	190 U	190 U	190 U	190 U	200 U	220 U
3-Nitroaniline	ug/kg	190 U	200 U	190 U	190 U	190 U	190 U	190 U	190 U	200 U	220 U
Benzyl Alcohol	ug/kg	570 U	590 U	570 U	570 U	560 U	570 U	570 U	570 U	590 U	650 U
2,6-Dinitrotoluene	ug/kg	190 UJ	200 U	190 U	190 U	190 U	190 U	190 U	190 U	200 U	220 U

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Appendix A7
Inorganic Data Summary - Validated Data
HSA -5C

Sample Name		SL-001-SA5C-SB-4.0-5.0	SL-001-SA5C-SB-9.0-10.0	SL-002-SA5C-SB-4.0-5.0	SL-002-SA5C-SB-9.0-10.0	SL-003-SA5C-SB-4.0-5.0	SL-004-SA5C-SB-4.0-5.0	SL-004-SA5C-SB-9.0-10.0	SL-005-SA5C-SB-4.0-5.0	SL-005-SA5C-SB-9.0-10.0	SL-006-SA5C-SB-4.0-5.0	SL-006-SA5C-SB-9.0-10.0	SL-007-SA5C-SB-4.0-5.0	SL-007-SA5C-SB-9.0-10.0	SL-008-SA5C-SB-4.0-5.0	SL-009-SA5C-SB-4.0-5.0
Sample Date		12/13/2010	12/13/2010	12/14/2010	12/14/2010	12/13/2010	12/14/2010	12/14/2010	12/10/2010	12/10/2010	12/13/2010	12/13/2010	12/13/2010	12/13/2010	12/10/2010	12/10/2010
SDG		DE037	DE037	DE039	DE039	DE037	DE039	DE039	DE035	DE035	DE037	DE037	DE037	DE037	DE035	DE035
Start Depth		4	9	4	9	4	4	9	4	9	4	9	4	9	4	4
End Depth		5	10	5	10	5	5	10	5	10	5	10	5	10	5	5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
GRO (C5-C12)	mg/kg	1 U	1.1 U	1.0 U	1.1 U	1.2 U	1 U	1.0 U	0.9 U	1.2 U	1.0 U	1.0 U	1 U	1.1 U	--	1 U
EFH (C15-C20)	mg/kg	--	--	1.3 U	1.4 U	--	1.4 U	1.4 U	1.4 U	0.58 J	--	--	--	--	--	1.3 U
EFH (C21-C30)	mg/kg	--	--	0.59 J	0.96 J	--	1.4 U	1.4 U	1.4 U	15	--	--	--	--	--	1.5
EFH (C30-C40)	mg/kg	--	--	0.74 J	2.0	--	1.1 J	1.4 U	0.60 J	51	--	--	--	--	--	5.2
EFH (C8-C11)	mg/kg	--	--	1.3 U	1.4 U	--	1.4 U	1.4 U	1.4 U	1.3 U	--	--	--	--	--	1.3 U
1,4-Dichlorobenzene	ug/kg	4.1 U	4.1 U	4.2 U	4.1 U	4.0 U	4.4 U	3.9 U	4.3 U	3.9 U	4.3 U	4.4 U	4.0 U	4.4 U	4.6 U	4.4 U
1,2,4-Trichlorobenzene	ug/kg	4.1 U	4.1 U	4.2 U	4.1 U	4.0 U	4.4 U	3.9 U	4.3 U	3.9 U	4.3 U	4.4 U	4.0 U	4.4 U	4.6 U	4.4 U
1,3-Dichlorobenzene	ug/kg	4.1 U	4.1 U	4.2 U	4.1 U	4.0 U	4.4 U	3.9 U	4.3 U	3.9 U	4.3 U	4.4 U	4.0 U	4.4 U	4.6 U	4.4 U
Hexachlorobutadiene	ug/kg	4.1 U	4.1 U	4.2 U	4.1 U	4.0 U	4.4 U	3.9 U	4.3 U	3.9 U	4.3 U	4.4 U	4.0 U	4.4 U	4.6 U	4.4 U
1,2-Dichlorobenzene	ug/kg	4.1 U	4.1 U	4.2 U	4.1 U	4.0 U	4.4 U	3.9 U	4.3 U	3.9 U	4.3 U	4.4 U	4.0 U	4.4 U	4.6 U	4.4 U
Isopropyltoluene	ug/kg	4.1 U	4.1 U	4.2 U	4.1 U	4.0 U	4.4 U	3.9 U	4.3 U	3.9 U	4.3 U	4.4 U	4.0 U	4.4 U	4.6 U	4.4 U
Ethylbenzene	ug/kg	4.1 U	4.1 U	4.2 U	4.1 U	4.0 U	4.4 U	3.9 U	4.3 U	3.9 U	4.3 U	4.4 U	4.0 U	4.4 U	4.6 U	4.4 U
Styrene	ug/kg	4.1 U	4.1 U	4.2 U	4.1 U	4.0 U	4.4 U	3.9 U	4.3 U	3.9 U	4.3 U	4.4 U	4.0 U	4.4 U	4.6 U	4.4 U
cis-1,3-Dichloropropene	ug/kg	4.1 U	4.1 U	4.2 U	4.1 U	4.0 U	4.4 U	3.9 U	4.3 U	3.9 U	4.3 U	4.4 U	4.0 U	4.4 U	4.6 U	4.4 U
trans-1,3-Dichloropropene	ug/kg	4.1 U	4.1 U	4.2 U	4.1 U	4.0 U	4.4 U	3.9 U	4.3 U	3.9 U	4.3 U	4.4 U	4.0 U	4.4 U	4.6 U	4.4 U
N-Propylbenzene	ug/kg	4.1 U	4.1 U	4.2 U	4.1 U	4.0 U	4.4 U	3.9 U	4.3 U	3.9 U	4.3 U	4.4 U	4.0 U	4.4 U	4.6 U	4.4 U
N-Butylbenzene	ug/kg	4.1 U	4.1 U	4.2 U	4.1 U	4.0 U	4.4 U	3.9 U	4.3 U	3.9 U	4.3 U	4.4 U	4.0 U	4.4 U	4.6 U	4.4 U
4-Chlorotoluene	ug/kg	4.1 U	4.1 U	4.2 U	4.1 U	4.0 U	4.4 U	3.9 U	4.3 U	3.9 U	4.3 U	4.4 U	4.0 U	4.4 U	4.6 U	4.4 U
1,2-Dibromoethane	ug/kg	4.1 U	4.1 U	4.2 U	4.1 U	4.0 U	4.4 U	3.9 U	4.3 U	3.9 U	4.3 U	4.4 U	4.0 U	4.4 U	4.6 U	4.4 U
1,2-Dichloroethane	ug/kg	4.1 U	4.1 U	4.2 U	4.1 U	4.0 U	4.4 U	3.9 U	4.3 U	3.9 U	4.3 U	4.4 U	4.0 U	4.4 U	4.6 U	4.4 U
4-Methyl-2-Pentanone	ug/kg	8.3 U	8.2 U	8.5 U	8.3 U	8.0 U	8.8 U	7.7 U	8.7 U	7.8 U	8.5 U	8.8 U	8.0 U	8.8 U	9.2 U	8.9 U
1,3,5-Trimethylbenzene	ug/kg	4.1 U	4.1 U	4.2 U	4.1 U	4.0 U	4.4 U	3.9 U	4.3 U	3.9 U	4.3 U	4.4 U	4.0 U	4.4 U	4.6 U	4.4 U
Bromobenzene	ug/kg	4.1 U	4.1 U	4.2 U	4.1 U	4.0 U	4.4 U	3.9 U	4.3 U	3.9 U	4.3 U	4.4 U	4.0 U	4.4 U	4.6 U	4.4 U
Toluene	ug/kg	4.1 U	0.11 J	0.11 J	0.09 J	4.0 U	0.09 J	0.08 J	4.3 U	3.9 U	4.3 U	4.4 U	4.0 U	4.4 U	4.6 U	4.4 U
Chlorobenzene	ug/kg	4.1 U	4.1 U	4.2 U	4.1 U	4.0 U	4.4 U	3.9 U	4.3 U	3.9 U	4.3 U	4.4 U	4.0 U	4.4 U	4.6 U	4.4 U
2-Chloroethyl Vinyl Ether	ug/kg	4.1 U	4.1 U	4.2 U	4.1 U	4.0 U	4.4 U	3.9 U	4.3 U	3.9 U	4.3 U	4.4 U	4.0 U	4.4 U	4.6 U	4.4 U
1,4-Dioxane	ug/kg	14 U	16 U	15 U	15 U	15 U	14 U	14 U	16 U	13 U	13 U	17 U	16 U	15 U	16 U	16 U
Dibromochloromethane	ug/kg	4.1 U	4.1 U	4.2 U	4.1 U	4.0 U	4.4 U	3.9 U	4.3 U	3.9 U	4.3 U	4.4 U	4.0 U	4.4 U	4.6 U	4.4 U
Tetrachloroethene	ug/kg	4.1 U	4.1 U	4.2 U	4.1 U	4.0 U	4.4 U	3.9 U	4.3 U	3.9 U	4.3 U	4.4 U	4.0 U	4.4 U	4.6 U	4.4 U
sec-Butylbenzene	ug/kg	4.1 U	4.1 U	4.2 U	4.1 U	4.0 U	4.4 U	3.9 U	4.3 U	3.9 U	4.3 U	4.4 U	4.0 U	4.4 U	4.6 U	4.4 U
1,3-Dichloropropane	ug/kg	4.1 U	4.1 U	4.2 U	4.1 U	4.0 U	4.4 U	3.9 U	4.3 U	3.9 U	4.3 U	4.4 U	4.0 U	4.4 U	4.6 U	4.4 U
cis-1,2-Dichloroethene	ug/kg	4.1 U	4.1 U	4.2 U	4.1 U	4.0 U	4.4 U	3.9 U	4.3 U	3.9 U	4.3 U	4.4 U	4.0 U	4.4 U	4.6 U	4.4 U
trans-1,2-Dichloroethene	ug/kg	4.1 U	4.1 U	4.2 U	4.1 U	4.0 U	4.4 U	3.9 U	4.3 U	3.9 U	4.3 U	4.4 U	4.0 U	4.4 U	4.6 U	4.4 U
Methyl tert-Butyl Ether	ug/kg	4.1 U	4.1 U	4.2 U	4.1 U	4.0 U	4.4 U	3.9 U	4.3 U	3.9 U	4.3 U	4.4 U	4.0 U	4.4 U	4.6 U	4.4 U
m,p-Xylene	ug/kg	4.1 U	4.1 U	4.2 U	4.1 U	4.0 U	4.4 U	3.9 U	4.3 U	3.9 U	4.3 U	4.4 U	4.0 U	4.4 U	4.6 U	4.4 U
Carbon tetrachloride	ug/kg	4.1 U	4.1 U	4.2 U	4.1 U	4.0 U	4.4 U	3.9 U	4.3 U	3.9 U	4.3 U	4.4 U	4.0 U	4.4 U	4.6 U	4.4 U
1,1-Dichloropropene	ug/kg	4.1 U	4.1 U	4.2 U	4.1 U	4.0 U	4.4 U	3.9 U	4.3 U	3.9 U	4.3 U	4.4 U	4.0 U	4.4 U	4.6 U	4.4 U
2-Hexanone	ug/kg	8.3 U	8.2 U	8.5 UJ	8.3 UJ	8.0 U	8.8 UJ	7.7 UJ	8.7 U	7.8 U	8.5 U	8.8 U	8.0 U	8.8 U	9.2 U	8.9 U
2,2-Dichloropropane	ug/kg	4.1 U	4.1 U	4.2 U	4.1 U	4.0 U	4.4 U	3.9 U	4.3 U	3.9 U	4.3 U	4.4 U	4.0 U	4.4 U	4.6 U	4.4 U
1,1,1,2-Tetrachloroethane	ug/kg	4.1 U	4.1 U	4.2 U	4.1 U	4.0 U	4.4 U	3.9 U	4.3 U	3.9 U	4.3 U	4.4 U	4.0 U	4.4 U	4.6 U	4.4 U
Acetone	ug/kg	8.3 U	35	8.5 U	34	8.0 U	8.8 U	22	8.7 U	7.8 U	8.5 U	8.7 J	8.0 U	8.8 U	9.2 U	8.9 U

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

Appendix A7
Inorganic Data Summary - Validated Data
HSA -5C

Sample Name		SL-001-SA5C-SB-4.0-5.0	SL-001-SA5C-SB-9.0-10.0	SL-002-SA5C-SB-4.0-5.0	SL-002-SA5C-SB-9.0-10.0	SL-003-SA5C-SB-4.0-5.0	SL-004-SA5C-SB-4.0-5.0	SL-004-SA5C-SB-9.0-10.0	SL-005-SA5C-SB-4.0-5.0	SL-005-SA5C-SB-9.0-10.0	SL-006-SA5C-SB-4.0-5.0	SL-006-SA5C-SB-9.0-10.0	SL-007-SA5C-SB-4.0-5.0	SL-007-SA5C-SB-9.0-10.0	SL-008-SA5C-SB-4.0-5.0	SL-009-SA5C-SB-4.0-5.0
Sample Date		12/13/2010	12/13/2010	12/14/2010	12/14/2010	12/13/2010	12/14/2010	12/14/2010	12/10/2010	12/10/2010	12/13/2010	12/13/2010	12/13/2010	12/13/2010	12/10/2010	12/10/2010
SDG		DE037	DE037	DE039	DE039	DE037	DE039	DE039	DE035	DE035	DE037	DE037	DE037	DE037	DE035	DE035
Start Depth		4	9	4	9	4	4	9	4	9	4	9	4	9	4	4
End Depth		5	10	5	10	5	5	10	5	10	5	10	5	10	5	5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Chloroform	ug/kg	4.1 U	4.1 U	4.2 U	4.1 U	4.0 U	4.4 U	3.9 U	4.3 U	3.9 U	4.3 U	4.4 U	4.0 U	4.4 U	4.6 U	4.4 U
Benzene	ug/kg	4.1 U	4.1 U	4.2 U	4.1 U	4.0 U	4.4 U	3.9 U	4.3 U	3.9 U	4.3 U	4.4 U	4.0 U	4.4 U	4.6 U	4.4 U
1,1,1-Trichloroethane	ug/kg	4.1 U	4.1 U	4.2 U	4.1 U	4.0 U	4.4 U	3.9 U	4.3 U	3.9 U	4.3 U	4.4 U	4.0 U	4.4 U	4.6 U	4.4 U
Bromomethane	ug/kg	4.1 U	4.1 U	4.2 U	4.1 U	4.0 U	4.4 U	3.9 U	4.3 U	3.9 U	4.3 U	4.4 U	4.0 U	4.4 U	4.6 U	4.4 U
Chloromethane	ug/kg	4.1 U	4.1 U	4.2 U	4.1 U	4.0 U	4.4 U	3.9 U	4.3 U	3.9 U	4.3 U	4.4 U	4.0 U	4.4 U	4.6 U	4.4 U
Dibromomethane	ug/kg	4.1 U	4.1 U	4.2 U	4.1 U	4.0 U	4.4 U	3.9 U	4.3 U	3.9 U	4.3 U	4.4 U	4.0 U	4.4 U	4.6 U	4.4 U
Bromochloromethane	ug/kg	4.1 U	4.1 U	4.2 U	4.1 U	4.0 U	4.4 U	3.9 U	4.3 U	3.9 U	4.3 U	4.4 U	4.0 U	4.4 U	4.6 U	4.4 U
Chloroethane	ug/kg	4.1 U	4.1 U	4.2 U	4.1 U	4.0 U	4.4 U	3.9 U	4.3 U	3.9 U	4.3 U	4.4 U	4.0 U	4.4 U	4.6 U	4.4 U
Vinyl Chloride	ug/kg	4.1 U	4.1 U	4.2 U	4.1 U	4.0 U	4.4 U	3.9 U	4.3 U	3.9 U	4.3 U	4.4 U	4.0 U	4.4 U	4.6 U	4.4 U
Methylene chloride	ug/kg	4.1 U	4.1 U	4.2 U	4.1 U	4.0 U	4.4 U	3.9 U	4.3 U	3.9 U	4.3 U	4.4 U	4.0 U	4.4 U	4.6 U	4.4 U
Bromoform	ug/kg	4.1 U	4.1 U	4.2 U	4.1 U	4.0 U	4.4 U	3.9 U	4.3 U	3.9 U	4.3 U	4.4 U	4.0 U	4.4 U	4.6 U	4.4 U
Bromodichloromethane	ug/kg	4.1 U	4.1 U	4.2 U	4.1 U	4.0 U	4.4 U	3.9 U	4.3 U	3.9 U	4.3 U	4.4 U	4.0 U	4.4 U	4.6 U	4.4 U
1,1-Dichloroethane	ug/kg	4.1 U	4.1 U	4.2 U	4.1 U	4.0 U	4.4 U	3.9 U	4.3 U	3.9 U	4.3 U	4.4 U	4.0 U	4.4 U	4.6 U	4.4 U
1,1-Dichloroethene	ug/kg	4.1 U	4.1 U	4.2 U	4.1 U	4.0 U	4.4 U	3.9 U	4.3 U	3.9 U	4.3 U	4.4 U	4.0 U	4.4 U	4.6 U	4.4 U
Trichlorofluoromethane	ug/kg	4.1 U	4.1 U	4.2 U	4.1 U	4.0 U	4.4 U	3.9 U	4.3 U	3.9 U	4.3 U	4.4 U	4.0 U	4.4 U	4.6 U	4.4 U
Dichlorodifluoromethane	ug/kg	4.1 U	4.1 U	4.2 U	4.1 U	4.0 U	4.4 U	3.9 U	4.3 U	3.9 U	4.3 U	4.4 U	4.0 U	4.4 U	4.6 U	4.4 U
Freon 113a	ug/kg	5.2 U	5.1 U	5.3 U	5.2 U	5.0 U	5.5 U	4.8 U	5.4 U	4.9 U	5.3 U	5.5 U	5.0 U	5.5 U	5.8 U	5.5 U
Freon 113	ug/kg	4.1 U	4.1 U	4.2 U	4.1 U	4.0 U	4.4 U	3.9 U	4.3 U	3.9 U	4.3 U	4.4 U	4.0 U	4.4 U	4.6 U	4.4 U
1,2-Dichloropropane	ug/kg	4.1 U	4.1 U	4.2 U	4.1 U	4.0 U	4.4 U	3.9 U	4.3 U	3.9 U	4.3 U	4.4 U	4.0 U	4.4 U	4.6 U	4.4 U
2-Butanone	ug/kg	8.3 U	5.6 J	8.5 U	5.6 J	8.0 U	8.8 U	3.4 J	8.7 U	7.8 U	8.5 U	8.8 U	8.0 U	8.8 U	9.2 U	8.9 U
1,1,2-Trichloroethane	ug/kg	4.1 U	4.1 U	4.2 U	4.1 U	4.0 U	4.4 U	3.9 U	4.3 U	3.9 U	4.3 U	4.4 U	4.0 U	4.4 U	4.6 U	4.4 U
Trichloroethene	ug/kg	4.1 U	4.1 U	4.2 U	4.1 U	4.0 U	4.4 U	3.9 U	4.3 U	3.9 U	4.3 U	4.4 U	4.0 U	4.4 U	4.6 U	4.4 U
1,1,2,2-Tetrachloroethane	ug/kg	4.1 U	4.1 U	4.2 U	4.1 U	4.0 U	4.4 U	3.9 U	4.3 U	3.9 U	4.3 U	4.4 U	4.0 U	4.4 U	4.6 U	4.4 U
Chlorotrifluoroethene	ug/kg	5.2 U	5.1 U	5.3 U	5.2 U	5.0 U	5.5 U	4.8 U	5.4 U	4.9 U	5.3 U	5.5 U	5.0 U	5.5 U	5.8 U	5.5 U
1,2,3-Trichlorobenzene	ug/kg	4.1 U	4.1 U	4.2 U	4.1 U	4.0 U	4.4 U	3.9 U	4.3 U	3.9 U	4.3 U	4.4 U	4.0 U	4.4 U	4.6 U	4.4 U
o-Xylene	ug/kg	4.1 U	4.1 U	4.2 U	4.1 U	4.0 U	4.4 U	3.9 U	4.3 U	3.9 U	4.3 U	4.4 U	4.0 U	4.4 U	4.6 U	4.4 U
2-Chlorotoluene	ug/kg	4.1 U	4.1 U	4.2 U	4.1 U	4.0 U	4.4 U	3.9 U	4.3 U	3.9 U	4.3 U	4.4 U	4.0 U	4.4 U	4.6 U	4.4 U
1,2,4-Trimethylbenzene	ug/kg	4.1 U	4.1 U	4.2 U	4.1 U	4.0 U	4.4 U	3.9 U	4.3 U	3.9 U	4.3 U	4.4 U	4.0 U	4.4 U	4.6 U	4.4 U
1,2-Dibromo-3-chloropropane	ug/kg	4.1 U	4.1 U	4.2 U	4.1 U	4.0 U	4.4 U	3.9 U	4.3 U	3.9 U	4.3 U	4.4 U	4.0 U	4.4 U	4.6 U	4.4 U
1,2,3-Trichloropropane	ug/kg	4.1 U	4.1 U	4.2 U	4.1 U	4.0 U	4.4 U	3.9 U	4.3 U	3.9 U	4.3 U	4.4 U	4.0 U	4.4 U	4.6 U	4.4 U
tert-Butylbenzene	ug/kg	4.1 U	4.1 U	4.2 U	4.1 U	4.0 U	4.4 U	3.9 U	4.3 U	3.9 U	4.3 U	4.4 U	4.0 U	4.4 U	4.6 U	4.4 U
Isopropylbenzene	ug/kg	4.1 U	4.1 U	4.2 U	4.1 U	4.0 U	4.4 U	3.9 U	4.3 U	3.9 U	4.3 U	4.4 U	4.0 U	4.4 U	4.6 U	4.4 U

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

Appendix A7
Inorganic Data Summary - Validated Data
HSA -5C

Sample Name		SL-009-SA5C-SB-9.0-10.0	SL-010-SA5C-SB-4.0-5.0	SL-010-SA5C-SB-9.0-10.0	SL-011-SA5C-SB-4.0-5.0	SL-011-SA5C-SB-9.0-10.0	SL-012-SA5C-SB-4.0-5.0	SL-012-SA5C-SB-9.0-10.0	SL-013-SA5C-SB-4.0-5.0	SL-013-SA5C-SB-9.0-10.0	SL-014-SA5C-SB-4.0-5.0	SL-014-SA5C-SB-9.0-10.0	SL-015-SA5C-SB-4.0-5.0	SL-015-SA5C-SB-9.0-10.0	SL-016-SA5C-SB-4.0-5.0	SL-016-SA5C-SB-9.0-10.0
Sample Date		12/10/2010	12/10/2010	12/10/2010	12/10/2010	12/10/2010	12/09/2010	12/09/2010	12/09/2010	12/09/2010	12/07/2010	12/07/2010	12/08/2010	12/08/2010	12/08/2010	12/08/2010
SDG		DE035	DE035	DE035	DE035	DE035	DE033	DE033	DE033	DE033	DE030	DE030	DE033	DE033	DE033	DE033
Start Depth		9	4	9	4	9	4	9	4	9	4	9	4	9	4	9
End Depth		10	5	10	5	10	5	10	5	10	5	10	5	10	5	10
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
GRO (C5-C12)	mg/kg	1.3 U	1.0 U	1.1 U	1.0 U	1 U	1.1 U	1.1 U	1 U	0.9 U	1.0 U	1 U	1 U	1.1 U	0.9 U	0.9 U
EFH (C15-C20)	mg/kg	1.2 J	1.4 U	0.49 J	2.6 U	1.3 U	1.3 U	1.5 U	0.48 J	1.3	0.96 J	0.51 J	1.3 U	1.3 U	0.53 J	5.8 J
EFH (C21-C30)	mg/kg	12	14	15	25	8.0 J	6.3	10	15	12	9.5	7.0	12	7.9	10	24
EFH (C30-C40)	mg/kg	29	51	60	75	15	15	24	37	29	21	16	26	19	24	61
EFH (C8-C11)	mg/kg	1.3 U	1.4 U	1.3 U	2.6 U	1.3 U	1.3 U	1.5 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	6.6 U
1,4-Dichlorobenzene	ug/kg	4.5 U	4.0 U	4.0 U	4.2 U	4.0 U	4.0 U	4.5 U	3.8 U	3.7 U	3.9 U	4.4 U	3.5 U	4.5 U	3.6 U	3.9 U
1,2,4-Trichlorobenzene	ug/kg	4.5 U	4.0 U	4.0 U	4.2 U	4.0 U	4.0 U	4.5 U	3.8 U	3.7 U	3.9 U	4.4 U	3.5 U	4.5 U	3.6 U	3.9 U
1,3-Dichlorobenzene	ug/kg	4.5 U	4.0 U	4.0 U	4.2 U	4.0 U	4.0 U	4.5 U	3.8 U	3.7 U	3.9 U	4.4 U	3.5 U	4.5 U	3.6 U	3.9 U
Hexachlorobutadiene	ug/kg	4.5 U	4.0 U	4.0 U	4.2 U	4.0 U	4.0 U	4.5 U	3.8 U	3.7 U	3.9 U	4.4 U	3.5 U	4.5 U	3.6 U	3.9 U
1,2-Dichlorobenzene	ug/kg	4.5 U	4.0 U	4.0 U	4.2 U	4.0 U	4.0 U	4.5 U	3.8 U	3.7 U	3.9 U	4.4 U	3.5 U	4.5 U	3.6 U	3.9 U
Isopropyltoluene	ug/kg	4.5 U	4.0 U	4.0 U	4.2 U	4.0 U	4.0 U	4.5 U	3.8 U	3.7 U	3.9 U	4.4 U	3.5 U	4.5 U	3.6 U	3.9 U
Ethylbenzene	ug/kg	4.5 U	4.0 U	4.0 U	4.2 U	4.0 U	4.0 U	4.5 U	3.8 U	3.7 U	3.9 U	4.4 U	3.5 U	4.5 U	3.6 U	3.9 U
Styrene	ug/kg	4.5 U	4.0 U	4.0 U	4.2 U	4.0 U	4.0 U	4.5 U	3.8 U	3.7 U	3.9 U	4.4 U	3.5 U	4.5 U	3.6 U	3.9 U
cis-1,3-Dichloropropene	ug/kg	4.5 U	4.0 U	4.0 U	4.2 U	4.0 U	4.0 U	4.5 U	3.8 U	3.7 U	3.9 U	4.4 U	3.5 U	4.5 U	3.6 U	3.9 U
trans-1,3-Dichloropropene	ug/kg	4.5 U	4.0 U	4.0 U	4.2 U	4.0 U	4.0 U	4.5 U	3.8 U	3.7 U	3.9 U	4.4 U	3.5 U	4.5 U	3.6 U	3.9 U
N-Propylbenzene	ug/kg	4.5 U	4.0 U	4.0 U	4.2 U	4.0 U	4.0 U	4.5 U	3.8 U	3.7 U	3.9 U	4.4 U	3.5 U	4.5 U	3.6 U	3.9 U
N-Butylbenzene	ug/kg	4.5 U	4.0 U	4.0 U	4.2 U	4.0 U	4.0 U	4.5 U	3.8 U	3.7 U	3.9 U	4.4 U	3.5 U	4.5 U	3.6 U	3.9 U
4-Chlorotoluene	ug/kg	4.5 U	4.0 U	4.0 U	4.2 U	4.0 U	4.0 U	4.5 U	3.8 U	3.7 U	3.9 U	4.4 U	3.5 U	4.5 U	3.6 U	3.9 U
1,2-Dibromoethane	ug/kg	4.5 U	4.0 U	4.0 U	4.2 U	4.0 U	4.0 U	4.5 U	3.8 U	3.7 U	3.9 U	4.4 U	3.5 U	4.5 U	3.6 U	3.9 U
1,2-Dichloroethane	ug/kg	4.5 U	4.0 U	4.0 U	4.2 U	4.0 U	4.0 U	4.5 U	3.8 U	3.7 U	3.9 U	4.4 U	3.5 U	4.5 U	3.6 U	3.9 U
4-Methyl-2-Pentanone	ug/kg	8.9 U	8.1 U	9.4	8.3 U	8.1 U	8.0 U	9.0 U	7.6 U	7.4 U	7.8 U	8.7 U	7.0 U	9.0 U	7.2 U	7.8 U
1,3,5-Trimethylbenzene	ug/kg	4.5 U	4.0 U	4.0 U	4.2 U	4.0 U	4.0 U	4.5 U	3.8 U	3.7 U	3.9 U	4.4 U	3.5 U	4.5 U	3.6 U	3.9 U
Bromobenzene	ug/kg	4.5 U	4.0 U	4.0 U	4.2 U	4.0 U	4.0 U	4.5 U	3.8 U	3.7 U	3.9 U	4.4 U	3.5 U	4.5 U	3.6 U	3.9 U
Toluene	ug/kg	4.5 U	4.0 U	4.0 U	4.2 U	4.0 U	4.0 U	4.5 U	3.8 U	3.7 U	3.9 U	4.4 U	3.5 U	4.5 U	3.6 U	3.9 U
Chlorobenzene	ug/kg	4.5 U	4.0 U	4.0 U	4.2 U	4.0 U	4.0 U	4.5 U	3.8 U	3.7 U	3.9 U	4.4 U	3.5 U	4.5 U	3.6 U	3.9 U
2-Chloroethyl Vinyl Ether	ug/kg	4.5 U	4.0 U	4.0 U	4.2 U	4.0 U	4.0 U	4.5 U	3.8 U	3.7 U	3.9 U	4.4 U	3.5 U	4.5 U	3.6 U	3.9 U
1,4-Dioxane	ug/kg	16 U	17 U	15 U	15 U	15 U	16 U	16 U	14 U	14 U	15 U	15 U	16 U	15 U	14 U	13 U
Dibromochloromethane	ug/kg	4.5 U	4.0 U	4.0 U	4.2 U	4.0 U	4.0 U	4.5 U	3.8 U	3.7 U	3.9 U	4.4 U	3.5 U	4.5 U	3.6 U	3.9 U
Tetrachloroethene	ug/kg	4.5 U	4.0 U	4.0 U	4.2 U	4.0 U	4.0 U	4.5 U	3.8 U	3.7 U	3.9 U	4.4 U	3.5 U	4.5 U	3.6 U	3.9 U
sec-Butylbenzene	ug/kg	4.5 U	4.0 U	4.0 U	4.2 U	4.0 U	4.0 U	4.5 U	3.8 U	3.7 U	3.9 U	4.4 U	3.5 U	4.5 U	3.6 U	3.9 U
1,3-Dichloropropane	ug/kg	4.5 U	4.0 U	4.0 U	4.2 U	4.0 U	4.0 U	4.5 U	3.8 U	3.7 U	3.9 U	4.4 U	3.5 U	4.5 U	3.6 U	3.9 U
cis-1,2-Dichloroethene	ug/kg	4.5 U	4.0 U	4.0 U	4.2 U	4.0 U	4.0 U	4.5 U	3.8 U	3.7 U	3.9 U	4.4 U	3.5 U	4.5 U	3.6 U	3.9 U
trans-1,2-Dichloroethene	ug/kg	4.5 U	4.0 U	4.0 U	4.2 U	4.0 U	4.0 U	4.5 U	3.8 U	3.7 U	3.9 U	4.4 U	3.5 U	4.5 U	3.6 U	3.9 U
Methyl tert-Butyl Ether	ug/kg	4.5 U	4.0 U	4.0 U	4.2 U	4.0 U	4.0 U	4.5 U	3.8 U	3.7 U	3.9 U	4.4 U	3.5 U	4.5 U	3.6 U	3.9 U
m,p-Xylene	ug/kg	4.5 U	4.0 U	4.0 U	4.2 U	4.0 U	4.0 U	4.5 U	3.8 U	3.7 U	3.9 U	4.4 U	3.5 U	4.5 U	3.6 U	3.9 U
Carbon tetrachloride	ug/kg	4.5 U	4.0 U	4.0 U	4.2 U	4.0 U	4.0 U	4.5 U	3.8 U	3.7 U	3.9 U	4.4 U	3.5 U	4.5 U	3.6 U	3.9 U
1,1-Dichloropropene	ug/kg	4.5 U	4.0 U	4.0 U	4.2 U	4.0 U	4.0 U	4.5 U	3.8 U	3.7 U	3.9 U	4.4 U	3.5 U	4.5 U	3.6 U	3.9 U
2-Hexanone	ug/kg	8.9 U	8.1 U	7.9 U	8.3 U	8.1 U	8.0 U	9.0 U	7.6 U	7.4 U	7.8 U	8.7 U	7.0 U	9.0 U	7.2 U	7.8 U
2,2-Dichloropropane	ug/kg	4.5 U	4.0 U	4.0 U	4.2 U	4.0 U	4.0 U	4.5 U	3.8 U	3.7 U	3.9 U	4.4 U	3.5 U	4.5 U	3.6 U	3.9 U
1,1,1,2-Tetrachloroethane	ug/kg	4.5 U	4.0 U	4.0 U	4.2 U	4.0 U	4.0 U	4.5 U	3.8 U	3.7 U	3.9 U	4.4 U	3.5 U	4.5 U	3.6 U	3.9 U
Acetone	ug/kg	7.7 J	8.1 U	7.9 U	8.3 U	8.1 U	8.0 U	13	7.6 U	7.4 U	7.8 U	9.9	7.0 U	9.0 U	7.2 U	22

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

Appendix A7
Inorganic Data Summary - Validated Data
HSA -5C

Sample Name		SL-009-SA5C-SB-9.0-10.0	SL-010-SA5C-SB-4.0-5.0	SL-010-SA5C-SB-9.0-10.0	SL-011-SA5C-SB-4.0-5.0	SL-011-SA5C-SB-9.0-10.0	SL-012-SA5C-SB-4.0-5.0	SL-012-SA5C-SB-9.0-10.0	SL-013-SA5C-SB-4.0-5.0	SL-013-SA5C-SB-9.0-10.0	SL-014-SA5C-SB-4.0-5.0	SL-014-SA5C-SB-9.0-10.0	SL-015-SA5C-SB-4.0-5.0	SL-015-SA5C-SB-9.0-10.0	SL-016-SA5C-SB-4.0-5.0	SL-016-SA5C-SB-9.0-10.0
Sample Date		12/10/2010	12/10/2010	12/10/2010	12/10/2010	12/10/2010	12/09/2010	12/09/2010	12/09/2010	12/09/2010	12/07/2010	12/07/2010	12/08/2010	12/08/2010	12/08/2010	12/08/2010
SDG		DE035	DE035	DE035	DE035	DE035	DE033	DE033	DE033	DE033	DE030	DE030	DE033	DE033	DE033	DE033
Start Depth		9	4	9	4	9	4	9	4	9	4	9	4	9	4	9
End Depth		10	5	10	5	10	5	10	5	10	5	10	5	10	5	10
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Chloroform	ug/kg	4.5 U	4.0 U	4.0 U	4.2 U	4.0 U	4.0 U	4.5 U	3.8 U	3.7 U	3.9 U	4.4 U	0.44 J	4.5 U	0.15 J	0.16 J
Benzene	ug/kg	4.5 U	4.0 U	4.0 U	4.2 U	4.0 U	4.0 U	4.5 U	3.8 U	3.7 U	3.9 U	4.4 U	3.5 U	4.5 U	3.6 U	3.9 U
1,1,1-Trichloroethane	ug/kg	4.5 U	4.0 U	4.0 U	4.2 U	4.0 U	4.0 U	4.5 U	3.8 U	3.7 U	3.9 U	4.4 U	3.5 U	4.5 U	3.6 U	3.9 U
Bromomethane	ug/kg	4.5 U	4.0 U	4.0 U	4.2 U	4.0 U	4.0 U	4.5 U	3.8 U	3.7 U	3.9 U	4.4 U	3.5 U	4.5 U	3.6 U	3.9 U
Chloromethane	ug/kg	4.5 U	4.0 U	4.0 U	4.2 U	4.0 U	4.0 U	4.5 U	3.8 U	3.7 U	3.9 U	4.4 U	3.5 U	4.5 U	3.6 U	3.9 U
Dibromomethane	ug/kg	4.5 U	4.0 U	4.0 U	4.2 U	4.0 U	4.0 U	4.5 U	3.8 U	3.7 U	3.9 U	4.4 U	3.5 U	4.5 U	3.6 U	3.9 U
Bromochloromethane	ug/kg	4.5 U	4.0 U	4.0 U	4.2 U	4.0 U	4.0 U	4.5 U	3.8 U	3.7 U	3.9 U	4.4 U	3.5 U	4.5 U	3.6 U	3.9 U
Chloroethane	ug/kg	4.5 U	4.0 U	4.0 U	4.2 U	4.0 U	4.0 U	4.5 U	3.8 U	3.7 U	3.9 U	4.4 U	3.5 U	4.5 U	3.6 U	3.9 U
Vinyl Chloride	ug/kg	4.5 U	4.0 U	4.0 U	4.2 U	4.0 U	4.0 U	4.5 U	3.8 U	3.7 U	3.9 U	4.4 U	3.5 U	4.5 U	3.6 U	3.9 U
Methylene chloride	ug/kg	4.5 U	4.0 U	4.0 U	4.2 U	4.0 U	4.0 U	4.5 U	3.8 U	3.7 U	3.9 U	4.4 U	16	4.5 U	3.8 U	5.5 U
Bromoform	ug/kg	4.5 U	4.0 U	4.0 U	4.2 U	4.0 U	4.0 U	4.5 U	3.8 U	3.7 U	3.9 U	4.4 U	3.5 U	4.5 U	3.6 U	3.9 U
Bromodichloromethane	ug/kg	4.5 U	4.0 U	4.0 U	4.2 U	4.0 U	4.0 U	4.5 U	3.8 U	3.7 U	3.9 U	4.4 U	3.5 U	4.5 U	3.6 U	3.9 U
1,1-Dichloroethane	ug/kg	4.5 U	4.0 U	4.0 U	4.2 U	4.0 U	4.0 U	4.5 U	3.8 U	3.7 U	3.9 U	4.4 U	3.5 U	4.5 U	3.6 U	3.9 U
1,1-Dichloroethene	ug/kg	4.5 U	4.0 U	4.0 U	4.2 U	4.0 U	4.0 U	4.5 U	3.8 U	3.7 U	3.9 U	4.4 U	3.5 U	4.5 U	3.6 U	3.9 U
Trichlorofluoromethane	ug/kg	4.5 U	4.0 U	4.0 U	4.2 U	4.0 U	4.0 U	4.5 U	3.8 U	3.7 U	3.9 U	4.4 U	3.5 U	4.5 U	3.6 U	3.9 U
Dichlorodifluoromethane	ug/kg	4.5 U	4.0 U	4.0 U	4.2 U	4.0 U	4.0 U	4.5 U	3.8 U	3.7 U	3.9 U	4.4 U	3.5 U	4.5 U	3.6 U	3.9 U
Freon 113a	ug/kg	5.6 U	5.0 U	5.0 U	5.2 U	5.0 U	5.0 U	5.6 U	4.7 U	4.6 U	4.9 U	5.4 U	4.4 U	5.6 U	4.5 U	4.9 U
Freon 113	ug/kg	4.5 U	4.0 U	4.0 U	4.2 U	4.0 U	4.0 U	4.5 U	3.8 U	3.7 U	3.9 U	4.4 U	3.5 U	4.5 U	3.6 U	3.9 U
1,2-Dichloropropane	ug/kg	4.5 U	4.0 U	4.0 U	4.2 U	4.0 U	4.0 U	4.5 U	3.8 U	3.7 U	3.9 U	4.4 U	3.5 U	4.5 U	3.6 U	3.9 U
2-Butanone	ug/kg	8.9 U	8.1 U	7.9 U	8.3 U	8.1 U	8.0 U	9.0 U	7.6 U	7.4 U	7.8 U	8.7 U	7.0 U	9.0 U	7.2 U	3.0 J
1,1,2-Trichloroethane	ug/kg	4.5 U	4.0 U	4.0 U	4.2 U	4.0 U	4.0 U	4.5 U	3.8 U	3.7 U	3.9 U	4.4 U	3.5 U	4.5 U	3.6 U	3.9 U
Trichloroethene	ug/kg	4.5 U	4.0 U	4.0 U	4.2 U	4.0 U	4.0 U	4.5 U	3.8 U	3.7 U	3.9 U	4.4 U	3.5 U	4.5 U	3.6 U	3.9 U
1,1,2,2-Tetrachloroethane	ug/kg	4.5 U	4.0 U	4.0 U	4.2 U	4.0 U	4.0 U	4.5 U	3.8 U	3.7 U	3.9 U	4.4 U	3.5 U	4.5 U	3.6 U	3.9 U
Chlorotrifluoroethene	ug/kg	5.6 U	5.0 U	5.0 U	5.2 U	5.0 U	5.0 U	5.6 U	4.7 U	4.6 U	4.9 U	5.4 U	4.4 U	5.6 U	4.5 U	4.9 U
1,2,3-Trichlorobenzene	ug/kg	4.5 U	4.0 U	4.0 U	4.2 U	4.0 U	4.0 U	4.5 U	3.8 U	3.7 U	3.9 U	4.4 U	3.5 U	4.5 U	3.6 U	3.9 U
o-Xylene	ug/kg	4.5 U	4.0 U	4.0 U	4.2 U	4.0 U	4.0 U	4.5 U	3.8 U	3.7 U	3.9 U	4.4 U	3.5 U	4.5 U	3.6 U	3.9 U
2-Chlorotoluene	ug/kg	4.5 U	4.0 U	4.0 U	4.2 U	4.0 U	4.0 U	4.5 U	3.8 U	3.7 U	3.9 U	4.4 U	3.5 U	4.5 U	3.6 U	3.9 U
1,2,4-Trimethylbenzene	ug/kg	4.5 U	4.0 U	4.0 U	4.2 U	4.0 U	4.0 U	4.5 U	3.8 U	3.7 U	3.9 U	4.4 U	3.5 U	4.5 U	3.6 U	3.9 U
1,2-Dibromo-3-chloropropane	ug/kg	4.5 U	4.0 U	4.0 U	4.2 U	4.0 U	4.0 U	4.5 U	3.8 U	3.7 U	3.9 U	4.4 U	3.5 U	4.5 U	3.6 U	3.9 U
1,2,3-Trichloropropane	ug/kg	4.5 U	4.0 U	4.0 U	4.2 U	4.0 U	4.0 U	4.5 U	3.8 U	3.7 U	3.9 U	4.4 U	3.5 U	4.5 U	3.6 U	3.9 U
tert-Butylbenzene	ug/kg	4.5 U	4.0 U	4.0 U	4.2 U	4.0 U	4.0 U	4.5 U	3.8 U	3.7 U	3.9 U	4.4 U	3.5 U	4.5 U	3.6 U	3.9 U
Isopropylbenzene	ug/kg	4.5 U	4.0 U	4.0 U	4.2 U	4.0 U	4.0 U	4.5 U	3.8 U	3.7 U	3.9 U	4.4 U	3.5 U	4.5 U	3.6 U	3.9 U

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

Appendix A7
Inorganic Data Summary - Validated Data
HSA -5C

Sample Name		SL-017-SA5C-SB-4.0-5.0	SL-017-SA5C-SB-9.0-10.0	SL-018-SA5C-SB-4.0-5.0	SL-019-SA5C-SB-4.0-5.0	SL-019-SA5C-SB-8.5-9.5	SL-020-SA5C-SB-4.0-5.0	SL-020-SA5C-SB-7.5-8.5	SL-021-SA5C-SB-4.0-5.0	SL-021-SA5C-SB-9.0-10.0	SL-022-SA5C-SB-4.0-5.0	SL-024-SA5C-SB-4.0-5.0	SL-025-SA5C-SB-4.0-5.0	SL-025-SA5C-SB-9.0-10.0	SL-026-SA5C-SB-4.0-5.0	SL-026-SA5C-SB-9.0-10.0
Sample Date		12/09/2010	12/09/2010	12/06/2010	12/07/2010	12/07/2010	12/08/2010	12/08/2010	12/08/2010	12/08/2010	12/09/2010	12/06/2010	12/06/2010	12/06/2010	12/07/2010	12/07/2010
SDG		DE034	DE034	DX013	DE030	DE030	DE033	DE033	DE033	DE033	DE033	DX013	DX013	DX013	DE030	DE030
Start Depth		4	9	4	4	8.5	4	7.5	4	9	4	4	4	9	4	9
End Depth		5	10	5	5	9.5	5	8.5	5	10	5	5	5	10	5	10
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
GRO (C5-C12)	mg/kg	0.9 U	0.9 U	1.1 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	1 U	--	1.0 U	0.9 U	1.0 U	1 U
EFH (C15-C20)	mg/kg	1.3 U	1.3 U	1.4 U	1.3 U	1.3 U	1.3 U	1.3 U	0.48 J	0.63 J	1.3 U	--	1.3 U	1.3 U	1.3 U	1.4 U
EFH (C21-C30)	mg/kg	2.1	1.7	19	0.55 J	1.3 U	1.2 J	1.4	11	7.3	0.66 J	--	8.9	6.4	0.53 J	1.4 U
EFH (C30-C40)	mg/kg	4.3	5.4	50	1.2 J	0.51 J	2.2	1.1 J	28	13	0.75 J	--	24	14	1.4	0.83 J
EFH (C8-C11)	mg/kg	1.3 U	1.3 U	1.4 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	--	1.3 U	1.3 U	1.3 U	1.4 U
1,4-Dichlorobenzene	ug/kg	4.3 U	4.1 U	4.2 U	3.7 U	4.0 U	3.6 U	3.4 U	3.5 U	3.8 U	4.4 U	4.5 U	3.9 U	3.7 U	4.2 U	3.8 U
1,2,4-Trichlorobenzene	ug/kg	4.3 U	4.1 U	4.2 U	3.7 U	4.0 U	3.6 U	3.4 U	3.5 U	3.8 U	4.4 U	4.5 U	3.9 U	3.7 U	4.2 U	3.8 U
1,3-Dichlorobenzene	ug/kg	4.3 U	4.1 U	4.2 U	3.7 U	4.0 U	3.6 U	3.4 U	3.5 U	3.8 U	4.4 U	4.5 U	3.9 U	3.7 U	4.2 U	3.8 U
Hexachlorobutadiene	ug/kg	4.3 U	4.1 U	4.2 U	3.7 U	4.0 U	3.6 U	3.4 U	3.5 U	3.8 U	4.4 U	4.5 U	3.9 U	3.7 U	4.2 U	3.8 U
1,2-Dichlorobenzene	ug/kg	4.3 U	4.1 U	4.2 U	3.7 U	4.0 U	3.6 U	3.4 U	3.5 U	3.8 U	4.4 U	4.5 U	3.9 U	3.7 U	4.2 U	3.8 U
Isopropyltoluene	ug/kg	4.3 U	4.1 U	4.2 U	3.7 U	4.0 U	3.6 U	3.4 U	3.5 U	3.8 U	4.4 U	4.5 U	3.9 U	3.7 U	4.2 U	3.8 U
Ethylbenzene	ug/kg	4.3 U	4.1 U	4.2 U	3.7 U	4.0 U	3.6 U	3.4 U	3.5 U	3.8 U	4.4 U	4.5 U	3.9 U	3.7 U	4.2 U	3.8 U
Styrene	ug/kg	4.3 U	4.1 U	4.2 U	3.7 U	4.0 U	3.6 U	3.4 U	3.5 U	3.8 U	4.4 U	4.5 U	3.9 U	3.7 U	4.2 U	3.8 U
cis-1,3-Dichloropropene	ug/kg	4.3 U	4.1 U	4.2 U	3.7 U	4.0 U	3.6 U	3.4 U	3.5 U	3.8 U	4.4 U	4.5 U	3.9 U	3.7 U	4.2 U	3.8 U
trans-1,3-Dichloropropene	ug/kg	4.3 U	4.1 U	4.2 U	3.7 U	4.0 U	3.6 U	3.4 U	3.5 U	3.8 U	4.4 U	4.5 U	3.9 U	3.7 U	4.2 U	3.8 U
N-Propylbenzene	ug/kg	4.3 U	4.1 U	4.2 U	3.7 U	4.0 U	3.6 U	3.4 U	3.5 U	3.8 U	4.4 U	4.5 U	3.9 U	3.7 U	4.2 U	3.8 U
N-Butylbenzene	ug/kg	4.3 U	4.1 U	4.2 U	3.7 U	4.0 U	3.6 U	3.4 U	3.5 U	3.8 U	4.4 U	4.5 U	3.9 U	3.7 U	4.2 U	3.8 U
4-Chlorotoluene	ug/kg	4.3 U	4.1 U	4.2 U	3.7 U	4.0 U	3.6 U	3.4 U	3.5 U	3.8 U	4.4 U	4.5 U	3.9 U	3.7 U	4.2 U	3.8 U
1,2-Dibromoethane	ug/kg	4.3 U	4.1 U	4.2 U	3.7 U	4.0 U	3.6 U	3.4 U	3.5 U	3.8 U	4.4 U	4.5 U	3.9 U	3.7 U	4.2 U	3.8 U
1,2-Dichloroethane	ug/kg	4.3 U	4.1 U	4.2 U	3.7 U	4.0 U	3.6 U	3.4 U	3.5 U	3.8 U	4.4 U	4.5 U	3.9 U	3.7 U	4.2 U	3.8 U
4-Methyl-2-Pentanone	ug/kg	8.6 U	9.7	8.4 UJ	7.4 U	8.0 U	7.1 U	6.8 U	7.1 U	7.6 U	8.8 U	9.1 UJ	7.8 UJ	7.3 UJ	8.4 U	7.6 U
1,3,5-Trimethylbenzene	ug/kg	4.3 U	4.1 U	4.2 U	3.7 U	4.0 U	3.6 U	3.4 U	3.5 U	3.8 U	4.4 U	4.5 U	3.9 U	3.7 U	4.2 U	3.8 U
Bromobenzene	ug/kg	4.3 U	4.1 U	4.2 U	3.7 U	4.0 U	3.6 U	3.4 U	3.5 U	3.8 U	4.4 U	4.5 U	3.9 U	3.7 U	4.2 U	3.8 U
Toluene	ug/kg	4.3 U	4.1 U	4.2 U	3.7 U	4.0 U	3.6 U	3.4 U	3.5 U	3.8 U	4.4 U	4.5 U	3.9 U	3.7 U	4.2 U	3.8 U
Chlorobenzene	ug/kg	4.3 U	4.1 U	4.2 U	3.7 U	4.0 U	3.6 U	3.4 U	3.5 U	3.8 U	4.4 U	4.5 U	3.9 U	3.7 U	4.2 U	3.8 U
2-Chloroethyl Vinyl Ether	ug/kg	4.3 U	4.1 U	4.2 U	3.7 U	4.0 U	3.6 U	3.4 U	3.5 U	3.8 U	4.4 U	4.5 U	3.9 U	3.7 U	4.2 U	3.8 U
1,4-Dioxane	ug/kg	15 U	21 U	15 U	13 U	14 U	13 U	13 U	13 U	15 U	15 U	19 U	14 U	16 U	14 U	14 U
Dibromochloromethane	ug/kg	4.3 U	4.1 U	4.2 U	3.7 U	4.0 U	3.6 U	3.4 U	3.5 U	3.8 U	4.4 U	4.5 U	3.9 U	3.7 U	4.2 U	3.8 U
Tetrachloroethene	ug/kg	4.3 U	4.1 U	4.2 U	3.7 U	4.0 U	3.6 U	3.4 U	3.5 U	3.8 U	4.4 U	4.5 U	3.9 U	3.7 U	4.2 U	3.8 U
sec-Butylbenzene	ug/kg	4.3 U	4.1 U	4.2 U	3.7 U	4.0 U	3.6 U	3.4 U	3.5 U	3.8 U	4.4 U	4.5 U	3.9 U	3.7 U	4.2 U	3.8 U
1,3-Dichloropropane	ug/kg	4.3 U	4.1 U	4.2 U	3.7 U	4.0 U	3.6 U	3.4 U	3.5 U	3.8 U	4.4 U	4.5 U	3.9 U	3.7 U	4.2 U	3.8 U
cis-1,2-Dichloroethene	ug/kg	4.3 U	4.1 U	4.2 U	3.7 U	4.0 U	3.6 U	3.4 U	3.5 U	3.8 U	4.4 U	4.5 U	3.9 U	3.7 U	4.2 U	3.8 U
trans-1,2-Dichloroethene	ug/kg	4.3 U	4.1 U	4.2 U	3.7 U	4.0 U	3.6 U	3.4 U	3.5 U	3.8 U	4.4 U	4.5 U	3.9 U	3.7 U	4.2 U	3.8 U
Methyl tert-Butyl Ether	ug/kg	4.3 U	4.1 U	4.2 U	3.7 U	4.0 U	3.6 U	3.4 U	3.5 U	3.8 U	4.4 U	4.5 U	3.9 U	3.7 U	4.2 U	3.8 U
m,p-Xylene	ug/kg	4.3 U	4.1 U	4.2 U	3.7 U	4.0 U	3.6 U	3.4 U	3.5 U	3.8 U	4.4 U	4.5 U	3.9 U	3.7 U	4.2 U	3.8 U
Carbon tetrachloride	ug/kg	4.3 U	4.1 U	4.2 U	3.7 U	4.0 U	3.6 U	3.4 U	3.5 U	3.8 U	4.4 U	4.5 U	3.9 U	3.7 U	4.2 U	3.8 U
1,1-Dichloropropene	ug/kg	4.3 U	4.1 U	4.2 U	3.7 U	4.0 U	3.6 U	3.4 U	3.5 U	3.8 U	4.4 U	4.5 U	3.9 U	3.7 U	4.2 U	3.8 U
2-Hexanone	ug/kg	8.6 U	8.2 U	8.4 UJ	7.4 U	8.0 U	7.1 U	6.8 U	7.1 U	7.6 U	8.8 U	9.1 UJ	7.8 UJ	7.3 UJ	8.4 U	7.6 U
2,2-Dichloropropane	ug/kg	4.3 U	4.1 U	4.2 U	3.7 U	4.0 U	3.6 U	3.4 U	3.5 U	3.8 U	4.4 U	4.5 U	3.9 U	3.7 U	4.2 U	3.8 U
1,1,1,2-Tetrachloroethane	ug/kg	4.3 U	4.1 U	4.2 U	3.7 U	4.0 U	3.6 U	3.4 U	3.5 U	3.8 U	4.4 U	4.5 U	3.9 U	3.7 U	4.2 U	3.8 U
Acetone	ug/kg	9.9	8.2 U	8.4 U	7.4 U	7.9 J	7.1 U	6.8 U	9.9	8.4	8.8 U	9.1 U	7.8 U	7.1 J	11	12

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

Appendix A7
Inorganic Data Summary - Validated Data
HSA -5C

Sample Name		SL-017-SA5C-SB-4.0-5.0	SL-017-SA5C-SB-9.0-10.0	SL-018-SA5C-SB-4.0-5.0	SL-019-SA5C-SB-4.0-5.0	SL-019-SA5C-SB-8.5-9.5	SL-020-SA5C-SB-4.0-5.0	SL-020-SA5C-SB-7.5-8.5	SL-021-SA5C-SB-4.0-5.0	SL-021-SA5C-SB-9.0-10.0	SL-022-SA5C-SB-4.0-5.0	SL-024-SA5C-SB-4.0-5.0	SL-025-SA5C-SB-4.0-5.0	SL-025-SA5C-SB-9.0-10.0	SL-026-SA5C-SB-4.0-5.0	SL-026-SA5C-SB-9.0-10.0
Sample Date		12/09/2010	12/09/2010	12/06/2010	12/07/2010	12/07/2010	12/08/2010	12/08/2010	12/08/2010	12/08/2010	12/09/2010	12/06/2010	12/06/2010	12/06/2010	12/07/2010	12/07/2010
SDG		DE034	DE034	DX013	DE030	DE030	DE033	DE033	DE033	DE033	DE033	DX013	DX013	DX013	DE030	DE030
Start Depth		4	9	4	4	8.5	4	7.5	4	9	4	4	4	9	4	9
End Depth		5	10	5	5	9.5	5	8.5	5	10	5	5	5	10	5	10
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Chloroform	ug/kg	4.3 U	4.1 U	4.2 U	3.7 U	4.0 U	3.6 U	3.4 U	0.11 J	3.8 U	4.4 U	4.5 U	3.9 U	3.7 U	4.2 U	3.8 U
Benzene	ug/kg	4.3 U	4.1 U	4.2 U	3.7 U	4.0 U	3.6 U	3.4 U	3.5 U	3.8 U	4.4 U	4.5 U	3.9 U	3.7 U	4.2 U	3.8 U
1,1,1-Trichloroethane	ug/kg	4.3 U	4.1 U	4.2 U	3.7 U	4.0 U	3.6 U	3.4 U	3.5 U	3.8 U	4.4 U	4.5 U	3.9 U	3.7 U	4.2 U	3.8 U
Bromomethane	ug/kg	4.3 U	4.1 U	4.2 U	3.7 U	4.0 U	3.6 U	3.4 U	3.5 U	3.8 U	4.4 U	4.5 U	3.9 U	3.7 U	4.2 U	3.8 U
Chloromethane	ug/kg	4.3 U	4.1 U	4.2 U	3.7 U	4.0 U	3.6 U	3.4 U	3.5 U	3.8 U	4.4 U	4.5 U	3.9 U	3.7 U	4.2 U	3.8 U
Dibromomethane	ug/kg	4.3 U	4.1 U	4.2 U	3.7 U	4.0 U	3.6 U	3.4 U	3.5 U	3.8 U	4.4 U	4.5 U	3.9 U	3.7 U	4.2 U	3.8 U
Bromochloromethane	ug/kg	4.3 U	4.1 U	4.2 U	3.7 U	4.0 U	3.6 U	3.4 U	3.5 U	3.8 U	4.4 U	4.5 U	3.9 U	3.7 U	4.2 U	3.8 U
Chloroethane	ug/kg	4.3 U	4.1 U	4.2 U	3.7 U	4.0 U	3.6 U	3.4 U	3.5 U	3.8 U	4.4 U	4.5 U	3.9 U	3.7 U	4.2 U	3.8 U
Vinyl Chloride	ug/kg	4.3 U	4.1 U	4.2 U	3.7 U	4.0 U	3.6 U	3.4 U	3.5 U	3.8 U	4.4 U	4.5 U	3.9 U	3.7 U	4.2 U	3.8 U
Methylene chloride	ug/kg	4.3 U	4.1 U	4.2 U	3.7 U	4.0 U	3.6 U	3.4 U	4.5 U	3.8 U	4.4 U	4.5 U	3.9 U	3.7 U	4.2 U	3.8 U
Bromoform	ug/kg	4.3 U	4.1 U	4.2 U	3.7 U	4.0 U	3.6 U	3.4 U	3.5 U	3.8 U	4.4 U	4.5 U	3.9 U	3.7 U	4.2 U	3.8 U
Bromodichloromethane	ug/kg	4.3 U	4.1 U	4.2 U	3.7 U	4.0 U	3.6 U	3.4 U	3.5 U	3.8 U	4.4 U	4.5 U	3.9 U	3.7 U	4.2 U	3.8 U
1,1-Dichloroethane	ug/kg	4.3 U	4.1 U	4.2 U	3.7 U	4.0 U	3.6 U	3.4 U	3.5 U	3.8 U	4.4 U	4.5 U	3.9 U	3.7 U	4.2 U	3.8 U
1,1-Dichloroethene	ug/kg	4.3 U	4.1 U	4.2 U	3.7 U	4.0 U	3.6 U	3.4 U	3.5 U	3.8 U	4.4 U	4.5 U	3.9 U	3.7 U	4.2 U	3.8 U
Trichlorofluoromethane	ug/kg	4.3 U	4.1 U	4.2 U	3.7 U	4.0 U	3.6 U	3.4 U	3.5 U	3.8 U	4.4 U	4.5 U	3.9 U	3.7 U	4.2 U	3.8 U
Dichlorodifluoromethane	ug/kg	4.3 U	4.1 U	4.2 U	3.7 U	4.0 U	3.6 U	3.4 U	3.5 U	3.8 U	4.4 U	4.5 U	3.9 U	3.7 U	4.2 U	3.8 U
Freon 113a	ug/kg	5.4 U	5.1 U	5.2 U	4.7 U	5.0 U	4.5 U	4.2 U	4.4 U	4.8 U	5.5 U	5.7 U	4.9 U	4.6 U	5.3 U	4.7 U
Freon 113	ug/kg	4.3 U	4.1 U	4.2 U	3.7 U	4.0 U	3.6 U	3.4 U	3.5 U	3.8 U	4.4 U	4.5 U	3.9 U	3.7 U	4.2 U	3.8 U
1,2-Dichloropropane	ug/kg	4.3 U	4.1 U	4.2 U	3.7 U	4.0 U	3.6 U	3.4 U	3.5 U	3.8 U	4.4 U	4.5 U	3.9 U	3.7 U	4.2 U	3.8 U
2-Butanone	ug/kg	8.6 U	8.2 U	8.4 U	7.4 U	8.0 U	7.1 U	6.8 U	7.1 U	7.6 U	8.8 U	9.1 U	7.8 U	7.3 U	8.4 U	7.6 U
1,1,2-Trichloroethane	ug/kg	4.3 U	4.1 U	4.2 U	3.7 U	4.0 U	3.6 U	3.4 U	3.5 U	3.8 U	4.4 U	4.5 U	3.9 U	3.7 U	4.2 U	3.8 U
Trichloroethene	ug/kg	4.3 U	4.1 U	4.2 U	3.7 U	4.0 U	3.6 U	3.4 U	3.5 U	3.8 U	4.4 U	4.5 U	3.9 U	3.7 U	4.2 U	3.8 U
1,1,2,2-Tetrachloroethane	ug/kg	4.3 U	4.1 U	4.2 U	3.7 U	4.0 U	3.6 U	3.4 U	3.5 U	3.8 U	4.4 U	4.5 U	3.9 U	3.7 U	4.2 U	3.8 U
Chlorotrifluoroethene	ug/kg	5.4 U	5.1 U	5.2 UJ	4.7 U	5.0 U	4.5 U	4.2 U	4.4 U	4.8 U	5.5 U	5.7 UJ	4.9 UJ	4.6 UJ	5.3 U	4.7 U
1,2,3-Trichlorobenzene	ug/kg	4.3 U	4.1 U	4.2 U	3.7 U	4.0 U	3.6 U	3.4 U	3.5 U	3.8 U	4.4 U	4.5 U	3.9 U	3.7 U	4.2 U	3.8 U
o-Xylene	ug/kg	4.3 U	4.1 U	4.2 U	3.7 U	4.0 U	3.6 U	3.4 U	3.5 U	3.8 U	4.4 U	4.5 U	3.9 U	3.7 U	4.2 U	3.8 U
2-Chlorotoluene	ug/kg	4.3 U	4.1 U	4.2 U	3.7 U	4.0 U	3.6 U	3.4 U	3.5 U	3.8 U	4.4 U	4.5 U	3.9 U	3.7 U	4.2 U	3.8 U
1,2,4-Trimethylbenzene	ug/kg	4.3 U	4.1 U	4.2 U	3.7 U	4.0 U	3.6 U	3.4 U	3.5 U	3.8 U	4.4 U	4.5 U	3.9 U	3.7 U	4.2 U	3.8 U
1,2-Dibromo-3-chloropropane	ug/kg	4.3 U	4.1 U	4.2 UJ	3.7 U	4.0 U	3.6 U	3.4 U	3.5 U	3.8 U	4.4 U	4.5 UJ	3.9 UJ	3.7 UJ	4.2 U	3.8 U
1,2,3-Trichloropropane	ug/kg	4.3 U	4.1 U	4.2 U	3.7 U	4.0 U	3.6 U	3.4 U	3.5 U	3.8 U	4.4 U	4.5 U	3.9 U	3.7 U	4.2 U	3.8 U
tert-Butylbenzene	ug/kg	4.3 U	4.1 U	4.2 U	3.7 U	4.0 U	3.6 U	3.4 U	3.5 U	3.8 U	4.4 U	4.5 U	3.9 U	3.7 U	4.2 U	3.8 U
Isopropylbenzene	ug/kg	4.3 U	4.1 U	4.2 U	3.7 U	4.0 U	3.6 U	3.4 U	3.5 U	3.8 U	4.4 U	4.5 U	3.9 U	3.7 U	4.2 U	3.8 U

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

Appendix A7
Inorganic Data Summary - Validated Data
HSA -5C

Sample Name		SL-027-SA5C-SB-2.5-3.5	SL-027-SA5C-SB-9.0-10.0	SL-028-SA5C-SB-4.0-5.0	SL-030-SA5C-SB-4.0-5.0	SL-030-SA5C-SB-9.0-10.0	SL-031-SA5C-SB-4.0-5.0	SL-031-SA5C-SB-9.0-10.0	SL-032-SA5C-SB-4.0-5.0	SL-036-SA5C-SB-4.0-5.0	SL-037-SA5C-SB-3.5-4.5	SL-038-SA5C-SB-4.0-5.0	SL-039-SA5C-SB-4.0-5.0	SL-040-SA5C-SB-4.0-5.0	SL-041-SA5C-SB-4.0-5.0	SL-043-SA5C-SB-2.0-3.0
Sample Date		12/07/2010	12/07/2010	12/06/2010	12/03/2010	12/03/2010	12/03/2010	12/03/2010	12/03/2010	12/02/2010	12/02/2010	01/05/2011	12/02/2010	12/02/2010	02/04/2011	11/30/2010
SDG		DE030	DE030	DE029	DE028	DE028	DE028	DE028	DE028	DE027	DE027	DE053	DE027	DE027	DE076	DE025
Start Depth		2.5	9	4	4	9	4	9	4	4	3.5	4	4	4	4	2
End Depth		3.5	10	5	5	10	5	10	5	5	4.5	5	5	5	5	3
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
GRO (C5-C12)	mg/kg	0.9 U	1.0 U	1 U	1.0 U	1 U	0.9 U	0.9 U	1.0 U	--	1.1 U	--	1 U	--	--	--
EFH (C15-C20)	mg/kg	1.3 U	1.4 U	1.3 UJ	0.46 J	1.4 U	2.7 U	1.4 U	1.3 U	--	1.4 U	--	26 U	--	--	--
EFH (C21-C30)	mg/kg	1.9	1.4 U	8.4	14	7.2	20	9.6	1.3 U	--	1.4 UJ	--	190	--	--	--
EFH (C30-C40)	mg/kg	3.5	0.63 J	21	54	27	66	36	1.3 U	--	1.6 J	--	520	--	--	--
EFH (C8-C11)	mg/kg	1.3 U	1.4 U	1.3 R	1.3 U	1.4 U	2.7 U	1.4 U	1.3 U	--	1.4 U	--	26 U	--	--	--
1,4-Dichlorobenzene	ug/kg	3.7 U	4.1 U	4.3 U	3.9 U	4.1 U	4.3 U	3.9 U	4.5 U	4.1 U	4.6 U	4.0 U	4.4 U	4.2 U	3.7 U	4.3 U
1,2,4-Trichlorobenzene	ug/kg	3.7 U	4.1 U	4.3 U	3.9 U	4.1 U	4.3 U	3.9 U	4.5 U	4.1 U	4.6 U	4.0 U	4.4 U	4.2 U	3.7 U	4.3 U
1,3-Dichlorobenzene	ug/kg	3.7 U	4.1 U	4.3 U	3.9 U	4.1 U	4.3 U	3.9 U	4.5 U	4.1 U	4.6 U	4.0 U	4.4 U	4.2 U	3.7 U	4.3 U
Hexachlorobutadiene	ug/kg	3.7 U	4.1 U	4.3 U	3.9 U	4.1 U	4.3 U	3.9 U	4.5 U	4.1 U	4.6 U	4.0 U	4.4 U	4.2 U	3.7 U	4.3 U
1,2-Dichlorobenzene	ug/kg	3.7 U	4.1 U	4.3 U	3.9 U	4.1 U	4.3 U	3.9 U	4.5 U	4.1 U	4.6 U	4.0 U	4.4 U	4.2 U	3.7 U	4.3 U
Isopropyltoluene	ug/kg	3.7 U	4.1 U	4.3 U	3.9 U	4.1 U	4.3 U	3.9 U	4.5 U	4.1 U	4.6 U	4.0 U	4.4 U	4.2 U	3.7 U	4.3 U
Ethylbenzene	ug/kg	3.7 U	4.1 U	4.3 U	3.9 U	4.1 U	4.3 U	3.9 U	4.5 U	4.1 U	4.6 U	4.0 U	4.4 U	4.2 U	3.7 U	4.3 U
Styrene	ug/kg	3.7 U	4.1 U	4.3 U	3.9 U	4.1 U	4.3 U	3.9 U	4.5 U	4.1 U	4.6 U	4.0 U	4.4 U	4.2 U	3.7 U	4.3 U
cis-1,3-Dichloropropene	ug/kg	3.7 U	4.1 U	4.3 U	3.9 U	4.1 U	4.3 U	3.9 U	4.5 U	4.1 U	4.6 U	4.0 U	4.4 U	4.2 U	3.7 UJ	4.3 U
trans-1,3-Dichloropropene	ug/kg	3.7 U	4.1 U	4.3 U	3.9 U	4.1 U	4.3 U	3.9 U	4.5 U	4.1 U	4.6 U	4.0 U	4.4 U	4.2 U	3.7 U	4.3 U
N-Propylbenzene	ug/kg	3.7 U	4.1 U	4.3 U	3.9 U	4.1 U	4.3 U	3.9 U	4.5 U	4.1 U	4.6 U	4.0 U	4.4 U	4.2 U	3.7 U	4.3 U
N-Butylbenzene	ug/kg	3.7 U	4.1 U	4.3 U	3.9 U	4.1 U	4.3 U	3.9 U	4.5 U	4.1 U	4.6 U	4.0 U	4.4 U	4.2 U	3.7 U	4.3 U
4-Chlorotoluene	ug/kg	3.7 U	4.1 U	4.3 U	3.9 U	4.1 U	4.3 U	3.9 U	4.5 U	4.1 U	4.6 U	4.0 U	4.4 U	4.2 U	3.7 U	4.3 U
1,2-Dibromoethane	ug/kg	3.7 U	4.1 U	4.3 U	3.9 U	4.1 U	4.3 U	3.9 U	4.5 U	4.1 U	4.6 U	4.0 U	4.4 U	4.2 U	3.7 U	4.3 U
1,2-Dichloroethane	ug/kg	3.7 U	4.1 U	4.3 U	3.9 U	4.1 U	4.3 U	3.9 U	4.5 U	4.1 U	4.6 U	4.0 U	4.4 U	4.2 U	3.7 U	4.3 U
4-Methyl-2-Pentanone	ug/kg	7.4 U	8.2 U	8.7 UJ	7.8 U	8.3 U	8.5 U	7.8 U	8.9 U	8.3 U	9.2 U	7.9 U	8.8 U	8.3 U	7.5 U	8.6 U
1,3,5-Trimethylbenzene	ug/kg	3.7 U	4.1 U	4.3 U	3.9 U	4.1 U	4.3 U	3.9 U	4.5 U	4.1 U	4.6 U	4.0 U	4.4 U	4.2 U	3.7 U	4.3 U
Bromobenzene	ug/kg	3.7 U	4.1 U	4.3 U	3.9 U	4.1 U	4.3 U	3.9 U	4.5 U	4.1 U	4.6 U	4.0 U	4.4 U	4.2 U	3.7 U	4.3 U
Toluene	ug/kg	3.7 U	4.1 U	4.3 U	3.9 U	4.1 U	4.3 U	3.9 U	4.5 U	4.1 U	4.6 U	4.0 U	4.4 U	4.2 U	3.7 U	4.3 U
Chlorobenzene	ug/kg	3.7 U	4.1 U	4.3 U	3.9 U	4.1 U	4.3 U	3.9 U	4.5 U	4.1 U	4.6 U	4.0 U	4.4 U	4.2 U	3.7 U	4.3 U
2-Chloroethyl Vinyl Ether	ug/kg	3.7 U	4.1 U	4.3 U	3.9 U	4.1 U	4.3 U	3.9 U	4.5 U	4.1 U	4.6 U	4.0 U	4.4 U	4.2 U	3.7 U	4.3 U
1,4-Dioxane	ug/kg	14 U	16 U	14 U	13 U	14 U	14 U	15 U	16 U	14 U	18 U	14 U	15 U	14 U	14 U	16 U
Dibromochloromethane	ug/kg	3.7 U	4.1 U	4.3 U	3.9 U	4.1 U	4.3 U	3.9 U	4.5 U	4.1 U	4.6 U	4.0 U	4.4 U	4.2 U	3.7 U	4.3 U
Tetrachloroethene	ug/kg	3.7 U	4.1 U	4.3 U	3.9 U	4.1 U	4.3 U	3.9 U	4.5 U	4.1 U	4.6 U	4.0 U	4.4 U	4.2 U	3.7 U	4.3 U
sec-Butylbenzene	ug/kg	3.7 U	4.1 U	4.3 U	3.9 U	4.1 U	4.3 U	3.9 U	4.5 U	4.1 U	4.6 U	4.0 U	4.4 U	4.2 U	3.7 U	4.3 U
1,3-Dichloropropane	ug/kg	3.7 U	4.1 U	4.3 U	3.9 U	4.1 U	4.3 U	3.9 U	4.5 U	4.1 U	4.6 U	4.0 U	4.4 U	4.2 U	3.7 U	4.3 U
cis-1,2-Dichloroethene	ug/kg	3.7 U	4.1 U	4.3 U	3.9 U	4.1 U	4.3 U	3.9 U	4.5 U	4.1 U	4.6 U	4.0 U	4.4 U	4.2 U	3.7 U	4.3 U
trans-1,2-Dichloroethene	ug/kg	3.7 U	4.1 U	4.3 U	3.9 U	4.1 U	4.3 U	3.9 U	4.5 U	4.1 U	4.6 U	4.0 U	4.4 U	4.2 U	3.7 U	4.3 U
Methyl tert-Butyl Ether	ug/kg	3.7 U	4.1 U	4.3 U	3.9 U	4.1 U	4.3 U	3.9 U	4.5 U	4.1 U	4.6 U	4.0 U	4.4 U	4.2 U	3.7 U	4.3 U
m,p-Xylene	ug/kg	3.7 U	4.1 U	4.3 U	3.9 U	4.1 U	4.3 U	3.9 U	4.5 U	4.1 U	4.6 U	4.0 U	4.4 U	4.2 U	3.7 U	4.3 U
Carbon tetrachloride	ug/kg	3.7 U	4.1 U	4.3 U	3.9 U	4.1 U	4.3 U	3.9 U	4.5 U	4.1 U	4.6 U	4.0 U	4.4 U	4.2 U	3.7 U	4.3 U
1,1-Dichloropropene	ug/kg	3.7 U	4.1 U	4.3 U	3.9 U	4.1 U	4.3 U	3.9 U	4.5 U	4.1 U	4.6 U	4.0 U	4.4 U	4.2 U	3.7 U	4.3 U
2-Hexanone	ug/kg	7.4 U	8.2 U	8.7 UJ	7.8 U	8.3 U	8.5 U	7.8 U	8.9 U	8.3 U	9.2 U	7.9 U	8.8 U	8.3 U	7.5 U	8.6 U
2,2-Dichloropropane	ug/kg	3.7 U	4.1 U	4.3 U	3.9 U	4.1 U	4.3 U	3.9 U	4.5 U	4.1 U	4.6 U	4.0 U	4.4 U	4.2 U	3.7 U	4.3 U
1,1,1,2-Tetrachloroethane	ug/kg	3.7 U	4.1 U	4.3 U	3.9 U	4.1 U	4.3 U	3.9 U	4.5 U	4.1 U	4.6 U	4.0 U	4.4 U	4.2 U	3.7 U	4.3 U
Acetone	ug/kg	89	8.2 U	8.7 UJ	7.8 U	25	8.5 U	17	8.9 U	8.3 U	9.2 U	7.9 U	8.8 U	7.5 J	7.5 U	8.6 U

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

Appendix A7
Inorganic Data Summary - Validated Data
HSA -5C

Sample Name		SL-027-SA5C-SB-2.5-3.5	SL-027-SA5C-SB-9.0-10.0	SL-028-SA5C-SB-4.0-5.0	SL-030-SA5C-SB-4.0-5.0	SL-030-SA5C-SB-9.0-10.0	SL-031-SA5C-SB-4.0-5.0	SL-031-SA5C-SB-9.0-10.0	SL-032-SA5C-SB-4.0-5.0	SL-036-SA5C-SB-4.0-5.0	SL-037-SA5C-SB-3.5-4.5	SL-038-SA5C-SB-4.0-5.0	SL-039-SA5C-SB-4.0-5.0	SL-040-SA5C-SB-4.0-5.0	SL-041-SA5C-SB-4.0-5.0	SL-043-SA5C-SB-2.0-3.0
Sample Date		12/07/2010	12/07/2010	12/06/2010	12/03/2010	12/03/2010	12/03/2010	12/03/2010	12/03/2010	12/02/2010	12/02/2010	01/05/2011	12/02/2010	12/02/2010	02/04/2011	11/30/2010
SDG		DE030	DE030	DE029	DE028	DE028	DE028	DE028	DE028	DE027	DE027	DE053	DE027	DE027	DE076	DE025
Start Depth		2.5	9	4	4	9	4	9	4	4	3.5	4	4	4	4	2
End Depth		3.5	10	5	5	10	5	10	5	5	4.5	5	5	5	5	3
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Chloroform	ug/kg	3.7 U	4.1 U	4.3 U	3.9 U	4.1 U	4.3 U	3.9 U	4.5 U	4.1 U	4.6 U	4.0 U	4.4 U	4.2 U	3.7 U	4.3 U
Benzene	ug/kg	3.7 U	4.1 U	4.3 U	3.9 U	4.1 U	4.3 U	3.9 U	4.5 U	4.1 U	4.6 U	4.0 U	4.4 U	4.2 U	3.7 U	4.3 U
1,1,1-Trichloroethane	ug/kg	3.7 U	4.1 U	4.3 U	3.9 U	4.1 U	4.3 U	3.9 U	4.5 U	4.1 U	4.6 U	4.0 U	4.4 U	4.2 U	3.7 U	4.3 U
Bromomethane	ug/kg	3.7 U	4.1 U	4.3 U	3.9 U	4.1 U	4.3 U	3.9 U	4.5 U	4.1 U	4.6 U	4.0 U	4.4 U	4.2 U	3.7 U	4.3 U
Chloromethane	ug/kg	3.7 U	4.1 U	4.3 U	3.9 U	4.1 U	4.3 U	3.9 U	4.5 U	4.1 U	4.6 U	4.0 U	4.4 U	4.2 U	3.7 U	4.3 U
Dibromomethane	ug/kg	3.7 U	4.1 U	4.3 U	3.9 U	4.1 U	4.3 U	3.9 U	4.5 U	4.1 U	4.6 U	4.0 U	4.4 U	4.2 U	3.7 U	4.3 U
Bromochloromethane	ug/kg	3.7 U	4.1 U	4.3 U	3.9 U	4.1 U	4.3 U	3.9 U	4.5 U	4.1 U	4.6 U	4.0 U	4.4 U	4.2 U	3.7 U	4.3 U
Chloroethane	ug/kg	3.7 U	4.1 U	4.3 U	3.9 U	4.1 U	4.3 U	3.9 U	4.5 U	4.1 U	4.6 U	4.0 U	4.4 U	4.2 U	3.7 U	4.3 U
Vinyl Chloride	ug/kg	3.7 U	4.1 U	4.3 U	3.9 U	4.1 U	4.3 U	3.9 U	4.5 U	4.1 U	4.6 U	4.0 U	4.4 U	4.2 U	3.7 U	4.3 U
Methylene chloride	ug/kg	3.7 U	4.1 U	4.3 U	3.9 U	4.1 U	4.3 U	3.9 U	4.5 U	4.1 U	4.6 U	0.62 J	4.4 U	4.2 U	3.7 U	4.3 U
Bromoform	ug/kg	3.7 U	4.1 U	4.3 U	3.9 U	4.1 U	4.3 U	3.9 U	4.5 U	4.1 U	4.6 U	4.0 U	4.4 U	4.2 U	3.7 U	4.3 U
Bromodichloromethane	ug/kg	3.7 U	4.1 U	4.3 U	3.9 U	4.1 U	4.3 U	3.9 U	4.5 U	4.1 U	4.6 U	4.0 U	4.4 U	4.2 U	3.7 U	4.3 U
1,1-Dichloroethane	ug/kg	3.7 U	4.1 U	4.3 U	3.9 U	4.1 U	4.3 U	3.9 U	4.5 U	4.1 U	4.6 U	4.0 U	4.4 U	4.2 U	3.7 U	4.3 U
1,1-Dichloroethene	ug/kg	3.7 U	4.1 U	4.3 U	3.9 U	4.1 U	4.3 U	3.9 U	4.5 U	4.1 U	4.6 U	4.0 U	4.4 U	4.2 U	3.7 U	4.3 U
Trichlorofluoromethane	ug/kg	3.7 U	4.1 U	4.3 U	3.9 U	4.1 U	4.3 U	3.9 U	4.5 U	4.1 U	4.6 U	4.0 U	4.4 U	4.2 U	3.7 U	4.3 U
Dichlorodifluoromethane	ug/kg	3.7 U	4.1 U	4.3 U	3.9 U	4.1 U	4.3 U	3.9 U	4.5 U	4.1 U	4.6 U	4.0 U	4.4 U	4.2 U	3.7 U	4.3 U
Freon 113a	ug/kg	4.6 U	5.1 U	5.4 U	4.9 U	5.2 U	5.3 U	4.9 U	5.6 U	5.2 U	5.7 U	4.9 U	5.5 U	5.2 U	4.7 U	5.4 U
Freon 113	ug/kg	3.7 U	4.1 U	4.3 U	3.9 U	4.1 U	4.3 U	3.9 U	4.5 U	4.1 U	4.6 U	4.0 U	4.4 U	4.2 U	3.7 U	4.3 U
1,2-Dichloropropane	ug/kg	3.7 U	4.1 U	4.3 U	3.9 U	4.1 U	4.3 U	3.9 U	4.5 U	4.1 U	4.6 U	4.0 U	4.4 U	4.2 U	3.7 U	4.3 U
2-Butanone	ug/kg	16	8.2 U	8.7 U	7.8 U	1.7 J	8.5 U	7.8 U	8.9 U	8.3 U	9.2 U	7.9 U	8.8 U	8.3 U	7.5 U	8.6 U
1,1,2-Trichloroethane	ug/kg	3.7 U	4.1 U	4.3 U	3.9 U	4.1 U	4.3 U	3.9 U	4.5 U	4.1 U	4.6 U	4.0 U	4.4 U	4.2 U	3.7 U	4.3 U
Trichloroethene	ug/kg	3.7 U	4.1 U	4.3 U	3.9 U	4.1 U	4.3 U	3.9 U	4.5 U	4.1 U	4.6 U	4.0 U	4.4 U	4.2 U	3.7 U	4.3 U
1,1,2,2-Tetrachloroethane	ug/kg	3.7 U	4.1 U	4.3 U	3.9 U	4.1 U	4.3 U	3.9 U	4.5 U	4.1 U	4.6 U	4.0 U	4.4 U	4.2 U	3.7 U	4.3 U
Chlorotrifluoroethene	ug/kg	4.6 U	5.1 U	5.4 UJ	4.9 U	5.2 U	5.3 U	4.9 U	5.6 U	5.2 U	5.7 U	4.9 U	5.5 U	5.2 U	4.7 U	5.4 U
1,2,3-Trichlorobenzene	ug/kg	3.7 U	4.1 U	4.3 U	3.9 U	4.1 U	4.3 U	3.9 U	4.5 U	4.1 U	4.6 U	4.0 U	4.4 U	4.2 U	3.7 U	4.3 U
o-Xylene	ug/kg	3.7 U	4.1 U	4.3 U	3.9 U	4.1 U	4.3 U	3.9 U	4.5 U	4.1 U	4.6 U	4.0 U	4.4 U	4.2 U	3.7 U	4.3 U
2-Chlorotoluene	ug/kg	3.7 U	4.1 U	4.3 U	3.9 U	4.1 U	4.3 U	3.9 U	4.5 U	4.1 U	4.6 U	4.0 U	4.4 U	4.2 U	3.7 U	4.3 U
1,2,4-Trimethylbenzene	ug/kg	3.7 U	4.1 U	4.3 U	3.9 U	4.1 U	4.3 U	3.9 U	4.5 U	4.1 U	4.6 U	4.0 U	4.4 U	4.2 U	3.7 U	4.3 U
1,2-Dibromo-3-chloropropane	ug/kg	3.7 U	4.1 U	4.3 UJ	3.9 U	4.1 U	4.3 U	3.9 U	4.5 U	4.1 U	4.6 U	4.0 U	4.4 U	4.2 U	3.7 U	4.3 U
1,2,3-Trichloropropane	ug/kg	3.7 U	4.1 U	4.3 U	3.9 U	4.1 U	4.3 U	3.9 U	4.5 U	4.1 U	4.6 U	4.0 U	4.4 U	4.2 U	3.7 U	4.3 U
tert-Butylbenzene	ug/kg	3.7 U	4.1 U	4.3 U	3.9 U	4.1 U	4.3 U	3.9 U	4.5 U	4.1 U	4.6 U	4.0 U	4.4 U	4.2 U	3.7 U	4.3 U
Isopropylbenzene	ug/kg	3.7 U	4.1 U	4.3 U	3.9 U	4.1 U	4.3 U	3.9 U	4.5 U	4.1 U	4.6 U	4.0 U	4.4 U	4.2 U	3.7 U	4.3 U

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

Appendix A7
Inorganic Data Summary - Validated Data
HSA -5C

Sample Name		SL-044-SA5C-SB-4.0-5.0	SL-044-SA5C-SB-9.0-10.0	SL-045-SA5C-SB-4.0-5.0	SL-046-SA5C-SB-4.0-5.0	SL-046-SA5C-SB-9.0-10.0	SL-047-SA5C-SB-4.0-5.0	SL-050-SA5C-SB-4.0-5.0	SL-050-SA5C-SB-9.0-10.0	SL-051-SA5C-SB-3.0-4.0	SL-052-SA5C-SB-2.5-3.0	SL-053-SA5C-SB-3.0-4.0	SL-054-SA5C-SB-3.0-4.0	SL-056-SA5C-SB-4.0-5.0	SL-057-SA5C-SB-4.0-5.0	SL-058-SA5C-SB-3.0-4.0
Sample Date		12/01/2010	12/01/2010	12/01/2010	12/01/2010	12/01/2010	12/01/2010	11/22/2010	11/22/2010	11/19/2010	11/19/2010	11/22/2010	11/18/2010	01/04/2011	11/30/2010	11/29/2010
SDG		DE026	DE026	DE026	DE026	DE026	DE026	DE021	DE021	DE020	DE020	DE021	DE019	DE052	DE025	DX011
Start Depth		4	9	4	4	9	4	4	9	3	2.5	3	3	4	4	3
End Depth		5	10	5	5	10	5	5	10	4	3	4	4	5	5	4
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
GRO (C5-C12)	mg/kg	1.0 U	--	--	1.1 U	--	--	1.0 U	--	--	1 U	1 U	1.1 U	--	--	--
EFH (C15-C20)	mg/kg	1.4 U	1.4 U	--	13	1.3 U	--	1.3 U	1.4 U	--	--	1.3 U	1.4 U	--	--	--
EFH (C21-C30)	mg/kg	1.4 U	1.4 U	--	13	1.3 U	--	1.3 U	1.4 U	--	1.3 U	1.3 U	1.4 U	--	--	--
EFH (C30-C40)	mg/kg	1.4 U	1.5	--	15	1.3 U	--	1.3 U	0.58 J	--	0.45 J	1.3 U	1.4 U	--	--	--
EFH (C8-C11)	mg/kg	1.4 U	1.4 U	--	1.3 U	1.3 U	--	1.3 U	1.4 U	--	1.3 U	1.3 U	1.4 U	--	--	--
1,4-Dichlorobenzene	ug/kg	4.3 U	--	4.3 U	4.0 U	--	4.1 U	3.7 U	--	3.9 U	4.4 U	4.0 U	4.5 U	4.0 U	4.5 U	4.3 U
1,2,4-Trichlorobenzene	ug/kg	4.3 U	--	4.3 U	4.0 U	--	4.1 U	3.7 U	--	3.9 U	4.4 U	4.0 U	4.5 U	4.0 U	4.5 U	4.3 U
1,3-Dichlorobenzene	ug/kg	4.3 U	--	4.3 U	4.0 U	--	4.1 U	3.7 U	--	3.9 U	4.4 U	4.0 U	4.5 U	4.0 U	4.5 U	4.3 U
Hexachlorobutadiene	ug/kg	4.3 U	--	4.3 U	4.0 U	--	4.1 U	3.7 U	--	3.9 U	4.4 U	4.0 U	4.5 U	4.0 U	4.5 U	4.3 U
1,2-Dichlorobenzene	ug/kg	4.3 U	--	4.3 U	4.0 U	--	4.1 U	3.7 U	--	3.9 U	4.4 U	4.0 U	4.5 U	4.0 U	4.5 U	4.3 U
Isopropyltoluene	ug/kg	4.3 U	--	4.3 U	4.0 U	--	4.1 U	3.7 U	--	3.9 U	4.4 U	4.0 U	4.5 U	4.0 U	4.5 U	4.3 U
Ethylbenzene	ug/kg	4.3 U	--	4.3 U	4.0 U	--	4.1 U	3.7 U	--	3.9 U	4.4 U	4.0 U	4.5 U	4.0 U	4.5 U	4.3 U
Styrene	ug/kg	4.3 U	--	4.3 U	4.0 U	--	4.1 U	3.7 U	--	3.9 U	4.4 U	4.0 U	4.5 U	4.0 U	4.5 U	4.3 U
cis-1,3-Dichloropropene	ug/kg	4.3 U	--	4.3 U	4.0 U	--	4.1 U	3.7 U	--	3.9 U	4.4 U	4.0 U	4.5 U	4.0 U	4.5 U	4.3 U
trans-1,3-Dichloropropene	ug/kg	4.3 U	--	4.3 U	4.0 U	--	4.1 U	3.7 U	--	3.9 U	4.4 U	4.0 U	4.5 U	4.0 U	4.5 U	4.3 U
N-Propylbenzene	ug/kg	4.3 U	--	4.3 U	4.0 U	--	4.1 U	3.7 U	--	3.9 U	4.4 U	4.0 U	4.5 U	4.0 U	4.5 U	4.3 U
N-Butylbenzene	ug/kg	4.3 U	--	4.3 U	4.0 U	--	4.1 U	3.7 U	--	3.9 U	4.4 U	4.0 U	4.5 U	4.0 U	4.5 U	4.3 U
4-Chlorotoluene	ug/kg	4.3 U	--	4.3 U	4.0 U	--	4.1 U	3.7 U	--	3.9 U	4.4 U	4.0 U	4.5 U	4.0 U	4.5 U	4.3 U
1,2-Dibromoethane	ug/kg	4.3 U	--	4.3 U	4.0 U	--	4.1 U	3.7 U	--	3.9 U	4.4 U	4.0 U	4.5 U	4.0 U	4.5 U	4.3 U
1,2-Dichloroethane	ug/kg	4.3 U	--	4.3 U	4.0 U	--	4.1 U	3.7 U	--	3.9 U	4.4 U	4.0 U	4.5 U	4.0 U	4.5 U	4.3 U
4-Methyl-2-Pentanone	ug/kg	8.7 U	--	8.6 U	8.1 U	--	8.2 U	7.4 U	--	7.8 U	8.9 U	7.9 U	9.0 U	7.9 U	9.0 U	8.6 U
1,3,5-Trimethylbenzene	ug/kg	4.3 U	--	4.3 U	4.0 U	--	4.1 U	3.7 U	--	3.9 U	4.4 U	4.0 U	4.5 U	4.0 U	4.5 U	4.3 U
Bromobenzene	ug/kg	4.3 U	--	4.3 U	4.0 U	--	4.1 U	3.7 U	--	3.9 U	4.4 U	4.0 U	4.5 U	4.0 U	4.5 U	4.3 U
Toluene	ug/kg	4.3 U	--	4.3 U	4.0 U	--	4.1 U	3.7 U	--	3.9 U	4.4 U	4.0 U	4.5 U	4.0 U	4.5 U	4.3 U
Chlorobenzene	ug/kg	4.3 U	--	4.3 U	4.0 U	--	4.1 U	3.7 U	--	3.9 U	4.4 U	4.0 U	4.5 U	4.0 U	4.5 U	4.3 U
2-Chloroethyl Vinyl Ether	ug/kg	4.3 U	--	4.3 U	4.0 U	--	4.1 U	3.7 U	--	3.9 U	4.4 U	4.0 U	4.5 U	4.0 U	4.5 U	4.3 U
1,4-Dioxane	ug/kg	14 U	--	16 U	17 U	--	16 U	13 U	--	16 U	16 U	14 U	17 U	15 U	16 U	16 U
Dibromochloromethane	ug/kg	4.3 U	--	4.3 U	4.0 U	--	4.1 U	3.7 U	--	3.9 U	4.4 U	4.0 U	4.5 U	4.0 U	4.5 U	4.3 U
Tetrachloroethene	ug/kg	4.3 U	--	4.3 U	4.0 U	--	4.1 U	3.7 U	--	3.9 U	4.4 U	4.0 U	4.5 U	4.0 U	4.5 U	4.3 U
sec-Butylbenzene	ug/kg	4.3 U	--	4.3 U	4.0 U	--	4.1 U	3.7 U	--	3.9 U	4.4 U	4.0 U	4.5 U	4.0 U	4.5 U	4.3 U
1,3-Dichloropropane	ug/kg	4.3 U	--	4.3 U	4.0 U	--	4.1 U	3.7 U	--	3.9 U	4.4 U	4.0 U	4.5 U	4.0 U	4.5 U	4.3 U
cis-1,2-Dichloroethene	ug/kg	4.3 U	--	4.3 U	4.0 U	--	4.1 U	3.7 U	--	3.9 U	4.4 U	4.0 U	4.5 U	4.0 U	4.5 U	4.3 U
trans-1,2-Dichloroethene	ug/kg	4.3 U	--	4.3 U	4.0 U	--	4.1 U	3.7 U	--	3.9 U	4.4 U	4.0 U	4.5 U	4.0 U	4.5 U	4.3 U
Methyl tert-Butyl Ether	ug/kg	4.3 U	--	4.3 U	4.0 U	--	4.1 U	3.7 U	--	3.9 U	4.4 U	4.0 U	4.5 U	4.0 U	4.5 U	4.3 U
m,p-Xylene	ug/kg	4.3 U	--	4.3 U	4.0 U	--	4.1 U	3.7 U	--	3.9 U	4.4 U	4.0 U	4.5 U	4.0 U	4.5 U	4.3 U
Carbon tetrachloride	ug/kg	4.3 U	--	4.3 U	4.0 U	--	4.1 U	3.7 U	--	3.9 U	4.4 U	4.0 U	4.5 U	4.0 U	4.5 U	4.3 U
1,1-Dichloropropene	ug/kg	4.3 U	--	4.3 U	4.0 U	--	4.1 U	3.7 U	--	3.9 U	4.4 U	4.0 U	4.5 U	4.0 U	4.5 U	4.3 U
2-Hexanone	ug/kg	8.7 U	--	8.6 U	8.1 U	--	8.2 U	7.4 U	--	7.8 U	8.9 U	7.9 U	9.0 U	7.9 U	9.0 U	8.6 U
2,2-Dichloropropane	ug/kg	4.3 U	--	4.3 U	4.0 U	--	4.1 U	3.7 U	--	3.9 U	4.4 U	4.0 U	4.5 U	4.0 U	4.5 U	4.3 U
1,1,1,2-Tetrachloroethane	ug/kg	4.3 U	--	4.3 U	4.0 U	--	4.1 U	3.7 U	--	3.9 U	4.4 U	4.0 U	4.5 U	4.0 U	4.5 U	4.3 U
Acetone	ug/kg	8.7 U	--	8.6 U	11	--	8.2 U	7.4 U	--	7.8 U	8.9 U	7.9 U	9.0 U	7.9 U	9.0 U	8.6 U

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

Appendix A7
Inorganic Data Summary - Validated Data
HSA -5C

Sample Name		SL-044-SA5C-SB-4.0-5.0	SL-044-SA5C-SB-9.0-10.0	SL-045-SA5C-SB-4.0-5.0	SL-046-SA5C-SB-4.0-5.0	SL-046-SA5C-SB-9.0-10.0	SL-047-SA5C-SB-4.0-5.0	SL-050-SA5C-SB-4.0-5.0	SL-050-SA5C-SB-9.0-10.0	SL-051-SA5C-SB-3.0-4.0	SL-052-SA5C-SB-2.5-3.0	SL-053-SA5C-SB-3.0-4.0	SL-054-SA5C-SB-3.0-4.0	SL-056-SA5C-SB-4.0-5.0	SL-057-SA5C-SB-4.0-5.0	SL-058-SA5C-SB-3.0-4.0
Sample Date		12/01/2010	12/01/2010	12/01/2010	12/01/2010	12/01/2010	12/01/2010	11/22/2010	11/22/2010	11/19/2010	11/19/2010	11/22/2010	11/18/2010	01/04/2011	11/30/2010	11/29/2010
SDG		DE026	DE026	DE026	DE026	DE026	DE026	DE021	DE021	DE020	DE020	DE021	DE019	DE052	DE025	DX011
Start Depth		4	9	4	4	9	4	4	9	3	2.5	3	3	4	4	3
End Depth		5	10	5	5	10	5	5	10	4	3	4	4	5	5	4
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Chloroform	ug/kg	4.3 U	--	4.3 U	4.0 U	--	4.1 U	3.7 U	--	3.9 U	4.4 U	4.0 U	4.5 U	4.0 U	4.5 U	4.3 U
Benzene	ug/kg	4.3 U	--	4.3 U	4.0 U	--	4.1 U	3.7 U	--	3.9 U	4.4 U	4.0 U	4.5 U	4.0 U	4.5 U	4.3 U
1,1,1-Trichloroethane	ug/kg	4.3 U	--	4.3 U	4.0 U	--	4.1 U	3.7 U	--	3.9 U	4.4 U	4.0 U	4.5 U	4.0 U	4.5 U	4.3 U
Bromomethane	ug/kg	4.3 U	--	4.3 U	4.0 U	--	4.1 U	3.7 U	--	3.9 U	4.4 U	4.0 U	4.5 U	4.0 U	4.5 U	4.3 U
Chloromethane	ug/kg	4.3 U	--	4.3 U	4.0 U	--	4.1 U	3.7 U	--	3.9 U	4.4 U	4.0 U	4.5 U	4.0 U	4.5 U	4.3 U
Dibromomethane	ug/kg	4.3 U	--	4.3 U	4.0 U	--	4.1 U	3.7 U	--	3.9 U	4.4 U	4.0 U	4.5 U	4.0 U	4.5 U	4.3 U
Bromochloromethane	ug/kg	4.3 U	--	4.3 U	4.0 U	--	4.1 U	3.7 U	--	3.9 U	4.4 U	4.0 U	4.5 U	4.0 U	4.5 U	4.3 U
Chloroethane	ug/kg	4.3 U	--	4.3 U	4.0 U	--	4.1 U	3.7 U	--	3.9 U	4.4 U	4.0 U	4.5 U	4.0 U	4.5 U	4.3 U
Vinyl Chloride	ug/kg	4.3 U	--	4.3 U	4.0 U	--	4.1 U	3.7 U	--	3.9 U	4.4 U	4.0 U	4.5 U	4.0 U	4.5 U	4.3 U
Methylene chloride	ug/kg	4.3 U	--	4.3 U	4.0 U	--	4.1 U	3.7 U	--	3.9 U	1.0 J	0.57 J	1.5 J	0.66 J	4.5 U	4.3 U
Bromoform	ug/kg	4.3 U	--	4.3 U	4.0 U	--	4.1 U	3.7 U	--	3.9 U	4.4 U	4.0 U	4.5 U	4.0 U	4.5 U	4.3 U
Bromodichloromethane	ug/kg	4.3 U	--	4.3 U	4.0 U	--	4.1 U	3.7 U	--	3.9 U	4.4 U	4.0 U	4.5 U	4.0 U	4.5 U	4.3 U
1,1-Dichloroethane	ug/kg	4.3 U	--	4.3 U	4.0 U	--	4.1 U	3.7 U	--	3.9 U	4.4 U	4.0 U	4.5 U	4.0 U	4.5 U	4.3 U
1,1-Dichloroethene	ug/kg	4.3 U	--	4.3 U	4.0 U	--	4.1 U	3.7 U	--	3.9 U	4.4 U	4.0 U	4.5 U	4.0 U	4.5 U	4.3 U
Trichlorofluoromethane	ug/kg	4.3 U	--	4.3 U	4.0 U	--	4.1 U	3.7 U	--	3.9 U	4.4 U	4.0 U	4.5 U	4.0 U	4.5 U	4.3 U
Dichlorodifluoromethane	ug/kg	4.3 U	--	4.3 U	4.0 U	--	4.1 U	3.7 U	--	3.9 U	4.4 U	4.0 U	4.5 U	4.0 U	4.5 U	4.3 U
Freon 113a	ug/kg	5.4 U	--	5.4 U	5.1 U	--	5.1 U	4.6 U	--	4.9 U	5.6 U	5.0 U	5.6 U	5.0 U	5.6 U	5.4 U
Freon 113	ug/kg	4.3 U	--	4.3 U	4.0 U	--	4.1 U	3.7 U	--	3.9 U	4.4 U	4.0 U	4.5 U	4.0 U	4.5 U	4.3 U
1,2-Dichloropropane	ug/kg	4.3 U	--	4.3 U	4.0 U	--	4.1 U	3.7 U	--	3.9 U	4.4 U	4.0 U	4.5 U	4.0 U	4.5 U	4.3 U
2-Butanone	ug/kg	8.7 U	--	8.6 U	8.1 U	--	8.2 U	7.4 U	--	7.8 U	8.9 U	7.9 U	9.0 U	7.9 U	9.0 U	8.6 U
1,1,2-Trichloroethane	ug/kg	4.3 U	--	4.3 U	4.0 U	--	4.1 U	3.7 U	--	3.9 U	4.4 U	4.0 U	4.5 U	4.0 U	4.5 U	4.3 U
Trichloroethene	ug/kg	4.3 U	--	4.3 U	4.0 U	--	4.1 U	3.7 U	--	3.9 U	4.4 U	4.0 U	4.5 U	4.0 U	4.5 U	4.3 U
1,1,2,2-Tetrachloroethane	ug/kg	4.3 U	--	4.3 U	4.0 U	--	4.1 U	3.7 U	--	3.9 U	4.4 U	4.0 U	4.5 U	4.0 U	4.5 U	4.3 U
Chlorotrifluoroethene	ug/kg	5.4 U	--	5.4 U	5.1 U	--	5.1 U	4.6 U	--	4.9 U	5.6 U	5.0 U	5.6 U	5.0 U	5.6 U	5.4 U
1,2,3-Trichlorobenzene	ug/kg	4.3 U	--	4.3 U	4.0 U	--	4.1 U	3.7 U	--	3.9 U	4.4 U	4.0 U	4.5 U	4.0 U	4.5 U	4.3 U
o-Xylene	ug/kg	4.3 U	--	4.3 U	4.0 U	--	4.1 U	3.7 U	--	3.9 U	4.4 U	4.0 U	4.5 U	4.0 U	4.5 U	4.3 U
2-Chlorotoluene	ug/kg	4.3 U	--	4.3 U	4.0 U	--	4.1 U	3.7 U	--	3.9 U	4.4 U	4.0 U	4.5 U	4.0 U	4.5 U	4.3 U
1,2,4-Trimethylbenzene	ug/kg	4.3 U	--	4.3 U	4.0 U	--	4.1 U	3.7 U	--	3.9 U	4.4 U	4.0 U	4.5 U	4.0 U	4.5 U	4.3 U
1,2-Dibromo-3-chloropropane	ug/kg	4.3 U	--	4.3 U	4.0 U	--	4.1 U	3.7 U	--	3.9 U	4.4 U	4.0 U	4.5 U	4.0 U	4.5 U	4.3 U
1,2,3-Trichloropropane	ug/kg	4.3 U	--	4.3 U	4.0 U	--	4.1 U	3.7 U	--	3.9 U	4.4 U	4.0 U	4.5 U	4.0 U	4.5 U	4.3 U
tert-Butylbenzene	ug/kg	4.3 U	--	4.3 U	4.0 U	--	4.1 U	3.7 U	--	3.9 U	4.4 U	4.0 U	4.5 U	4.0 U	4.5 U	4.3 U
Isopropylbenzene	ug/kg	4.3 U	--	4.3 U	4.0 U	--	4.1 U	3.7 U	--	3.9 U	4.4 U	4.0 U	4.5 U	4.0 U	4.5 U	4.3 U

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

Appendix A7
Inorganic Data Summary - Validated Data
HSA -5C

Sample Name		SL-059-SA5C-SB-1.0-2.0	SL-059-SA5C-SB-9.0-10.0	SL-060-SA5C-SB-4.0-5.0	SL-060-SA5C-SB-9.0-10.0	SL-060-SA5C-SB-10.0-11.0	SL-061-SA5C-SB-4.0-5.0	SL-061-SA5C-SB-9.0-10.0	SL-062-SA5C-SB-2.5-3.5	SL-063-SA5C-SB-4.0-5.0	SL-064-SA5C-SB-4.0-5.0	SL-065-SA5C-SB-2.5-3.5	SL-066-SA5C-SB-3.0-4.0	SL-067-SA5C-SB-3.0-4.0	SL-068-SA5C-SB-3.5-4.5	SL-070-SA5C-SB-4.0-5.0
Sample Date		11/29/2010	11/29/2010	11/23/2010	11/23/2010	12/14/2010	11/24/2010	11/24/2010	11/23/2010	11/24/2010	11/24/2010	11/23/2010	11/22/2010	11/18/2010	11/18/2010	11/30/2010
SDG		DX011	DX011	DE022	DE022	DE039	DE023	DE023	DE022	DE023	DE023	DE022	DE021	DE019	DE019	DE025
Start Depth		1	9	4	9	10	4	9	2.5	4	4	2.5	3	3	3.5	4
End Depth		2	10	5	10	11	5	10	3.5	5	5	3.5	4	4	4.5	5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
GRO (C5-C12)	mg/kg	1.0 U	1.1 U	1.1 U	--	1.1 U	1.1 U	--	--	--	1.0 U	--	0.9 U	1.1 U	1.0 U	--
EFH (C15-C20)	mg/kg	1.1 J	1.4 U	1.3 U	1.3 U	1.4 U	1.3 U	1.2 U	--	--	1.4 U	--	1.3 U	1.3 U	1.3 U	--
EFH (C21-C30)	mg/kg	13	4.1 J	1.3 U	2.5	3.6	0.64 J	3.4	--	--	1.4 U	--	1.3 U	1.3 U	1.3 U	--
EFH (C30-C40)	mg/kg	61	25	1.1 J	7.0	8.9	2.1	13	--	--	1.0 J	--	1.3 U	0.74 J	0.77 J	--
EFH (C8-C11)	mg/kg	1.3 U	1.4 U	1.3 U	1.3 U	1.4 U	1.3 U	1.2 U	--	--	1.4 U	--	1.3 U	1.3 U	1.3 U	--
1,4-Dichlorobenzene	ug/kg	3.9 U	4.4 U	4.1 U	--	4.0 U	4.1 U	--	4.3 U	3.8 U	4.0 U	4.0 U	4.6 U	4.6 U	4.0 U	4.0 U
1,2,4-Trichlorobenzene	ug/kg	3.9 U	4.4 U	4.1 U	--	4.0 U	4.1 U	--	4.3 U	3.8 U	4.0 U	4.0 U	4.6 U	4.6 U	4.0 U	4.0 U
1,3-Dichlorobenzene	ug/kg	3.9 U	4.4 U	4.1 U	--	4.0 U	4.1 U	--	4.3 U	3.8 U	4.0 U	4.0 U	4.6 U	4.6 U	4.0 U	4.0 U
Hexachlorobutadiene	ug/kg	3.9 U	4.4 U	4.1 U	--	4.0 U	4.1 U	--	4.3 U	3.8 U	4.0 U	4.0 U	4.6 U	4.6 U	4.0 U	4.0 U
1,2-Dichlorobenzene	ug/kg	3.9 U	4.4 U	4.1 U	--	4.0 U	4.1 U	--	4.3 U	3.8 U	4.0 U	4.0 U	4.6 U	4.6 U	4.0 U	4.0 U
Isopropyltoluene	ug/kg	3.9 U	4.4 U	4.1 U	--	4.0 U	4.1 U	--	4.3 U	3.8 U	4.0 U	4.0 U	4.6 U	4.6 U	4.0 U	4.0 U
Ethylbenzene	ug/kg	3.9 U	4.4 U	4.1 U	--	4.0 U	4.1 U	--	4.3 U	3.8 U	4.0 U	4.0 U	4.6 U	4.6 U	4.0 U	4.0 U
Styrene	ug/kg	3.9 U	4.4 U	4.1 U	--	4.0 U	4.1 U	--	4.3 U	3.8 U	4.0 U	4.0 U	4.6 U	4.6 U	4.0 U	4.0 U
cis-1,3-Dichloropropene	ug/kg	3.9 U	4.4 U	4.1 U	--	4.0 U	4.1 U	--	4.3 U	3.8 U	4.0 U	4.0 U	4.6 U	4.6 U	4.0 U	4.0 U
trans-1,3-Dichloropropene	ug/kg	3.9 U	4.4 U	4.1 U	--	4.0 U	4.1 U	--	4.3 U	3.8 U	4.0 U	4.0 U	4.6 U	4.6 U	4.0 U	4.0 U
N-Propylbenzene	ug/kg	3.9 U	4.4 U	4.1 U	--	4.0 U	4.1 U	--	4.3 U	3.8 U	4.0 U	4.0 U	4.6 U	4.6 U	4.0 U	4.0 U
N-Butylbenzene	ug/kg	3.9 U	4.4 U	4.1 U	--	4.0 U	4.1 U	--	4.3 U	3.8 U	4.0 U	4.0 U	4.6 U	4.6 U	4.0 U	4.0 U
4-Chlorotoluene	ug/kg	3.9 U	4.4 U	4.1 U	--	4.0 U	4.1 U	--	4.3 U	3.8 U	4.0 U	4.0 U	4.6 U	4.6 U	4.0 U	4.0 U
1,2-Dibromoethane	ug/kg	3.9 U	4.4 U	4.1 U	--	4.0 U	4.1 U	--	4.3 U	3.8 U	4.0 U	4.0 U	4.6 U	4.6 U	4.0 U	4.0 U
1,2-Dichloroethane	ug/kg	3.9 U	4.4 U	4.1 U	--	4.0 U	4.1 U	--	4.3 U	3.8 U	4.0 U	4.0 U	4.6 U	4.6 U	4.0 U	4.0 U
4-Methyl-2-Pentanone	ug/kg	7.7 U	8.8 U	8.3 U	--	7.9 U	8.3 U	--	8.7 U	7.5 U	7.9 U	8.0 U	9.3 U	9.2 U	8.0 U	8.1 U
1,3,5-Trimethylbenzene	ug/kg	3.9 U	4.4 U	4.1 U	--	4.0 U	4.1 U	--	4.3 U	3.8 U	4.0 U	4.0 U	4.6 U	4.6 U	4.0 U	4.0 U
Bromobenzene	ug/kg	3.9 U	4.4 U	4.1 U	--	4.0 U	4.1 U	--	4.3 U	3.8 U	4.0 U	4.0 U	4.6 U	4.6 U	4.0 U	4.0 U
Toluene	ug/kg	3.9 U	4.4 U	4.1 U	--	4.0 U	0.09 J	--	4.3 U	3.8 U	0.1 J	4.0 U	4.6 U	4.6 U	4.0 U	4.0 U
Chlorobenzene	ug/kg	3.9 U	4.4 U	4.1 U	--	4.0 U	4.1 U	--	4.3 U	3.8 U	4.0 U	4.0 U	4.6 U	4.6 U	4.0 U	4.0 U
2-Chloroethyl Vinyl Ether	ug/kg	3.9 U	4.4 U	4.1 U	--	4.0 U	4.1 U	--	4.3 U	3.8 U	4.0 U	4.0 U	4.6 U	4.6 U	4.0 U	4.0 U
1,4-Dioxane	ug/kg	14 U	17 U	16 U	--	14 U	15 U	--	16 U	14 U	17 U	16 U	15 U	16 U	16 U	14 U
Dibromochloromethane	ug/kg	3.9 U	4.4 U	4.1 U	--	4.0 U	4.1 U	--	4.3 U	3.8 U	4.0 U	4.0 U	4.6 U	4.6 U	4.0 U	4.0 U
Tetrachloroethene	ug/kg	3.9 U	4.4 U	4.1 U	--	4.0 U	4.1 U	--	4.3 U	3.8 U	4.0 U	4.0 U	4.6 U	4.6 U	4.0 U	4.0 U
sec-Butylbenzene	ug/kg	3.9 U	4.4 U	4.1 U	--	4.0 U	4.1 U	--	4.3 U	3.8 U	4.0 U	4.0 U	4.6 U	4.6 U	4.0 U	4.0 U
1,3-Dichloropropane	ug/kg	3.9 U	4.4 U	4.1 U	--	4.0 U	4.1 U	--	4.3 U	3.8 U	4.0 U	4.0 U	4.6 U	4.6 U	4.0 U	4.0 U
cis-1,2-Dichloroethene	ug/kg	3.9 U	4.4 U	4.1 U	--	4.0 U	4.1 U	--	4.3 U	3.8 U	4.0 U	4.0 U	4.6 U	4.6 U	4.0 U	4.0 U
trans-1,2-Dichloroethene	ug/kg	3.9 U	4.4 U	4.1 U	--	4.0 U	4.1 U	--	4.3 U	3.8 U	4.0 U	4.0 U	4.6 U	4.6 U	4.0 U	4.0 U
Methyl tert-Butyl Ether	ug/kg	3.9 U	4.4 U	4.1 U	--	4.0 U	4.1 U	--	4.3 U	3.8 U	4.0 U	4.0 U	4.6 U	4.6 U	4.0 U	4.0 U
m,p-Xylene	ug/kg	3.9 U	4.4 U	4.1 U	--	4.0 U	4.1 U	--	4.3 U	3.8 U	4.0 U	4.0 U	4.6 U	4.6 U	4.0 U	4.0 U
Carbon tetrachloride	ug/kg	3.9 U	4.4 U	4.1 U	--	4.0 U	4.1 U	--	4.3 U	3.8 U	4.0 U	4.0 U	4.6 U	4.6 U	4.0 U	4.0 U
1,1-Dichloropropene	ug/kg	3.9 U	4.4 U	4.1 U	--	4.0 U	4.1 U	--	4.3 U	3.8 U	4.0 U	4.0 U	4.6 U	4.6 U	4.0 U	4.0 U
2-Hexanone	ug/kg	7.7 U	8.8 U	8.3 U	--	7.9 UJ	8.3 U	--	8.7 U	7.5 U	7.9 U	8.0 U	9.3 U	9.2 U	8.0 U	8.1 U
2,2-Dichloropropane	ug/kg	3.9 U	4.4 U	4.1 U	--	4.0 U	4.1 U	--	4.3 U	3.8 U	4.0 U	4.0 U	4.6 U	4.6 U	4.0 U	4.0 U
1,1,1,2-Tetrachloroethane	ug/kg	3.9 U	4.4 U	4.1 U	--	4.0 U	4.1 U	--	4.3 U	3.8 U	4.0 U	4.0 U	4.6 U	4.6 U	4.0 U	4.0 U
Acetone	ug/kg	57	8.8 U	8.3 U	--	7.9 U	8.3 U	--	8.7 U	7.5 U	7.9 U	8.0 U	9.3 U	9.2 U	8.0 U	8.1 U

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

Appendix A7
Inorganic Data Summary - Validated Data
HSA -5C

Sample Name		SL-059-SA5C-SB-1.0-2.0	SL-059-SA5C-SB-9.0-10.0	SL-060-SA5C-SB-4.0-5.0	SL-060-SA5C-SB-9.0-10.0	SL-060-SA5C-SB-10.0-11.0	SL-061-SA5C-SB-4.0-5.0	SL-061-SA5C-SB-9.0-10.0	SL-062-SA5C-SB-2.5-3.5	SL-063-SA5C-SB-4.0-5.0	SL-064-SA5C-SB-4.0-5.0	SL-065-SA5C-SB-2.5-3.5	SL-066-SA5C-SB-3.0-4.0	SL-067-SA5C-SB-3.0-4.0	SL-068-SA5C-SB-3.5-4.5	SL-070-SA5C-SB-4.0-5.0
Sample Date		11/29/2010	11/29/2010	11/23/2010	11/23/2010	12/14/2010	11/24/2010	11/24/2010	11/23/2010	11/24/2010	11/24/2010	11/23/2010	11/22/2010	11/18/2010	11/18/2010	11/30/2010
SDG		DX011	DX011	DE022	DE022	DE039	DE023	DE023	DE022	DE023	DE023	DE022	DE021	DE019	DE019	DE025
Start Depth		1	9	4	9	10	4	9	2.5	4	4	2.5	3	3	3.5	4
End Depth		2	10	5	10	11	5	10	3.5	5	5	3.5	4	4	4.5	5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Chloroform	ug/kg	3.9 U	4.4 U	4.1 U	--	4.0 U	4.1 U	--	4.3 U	3.8 U	4.0 U	4.0 U	4.6 U	4.6 U	4.0 U	4.0 U
Benzene	ug/kg	3.9 U	4.4 U	4.1 U	--	4.0 U	4.1 U	--	4.3 U	3.8 U	4.0 U	4.0 U	4.6 U	4.6 U	4.0 U	4.0 U
1,1,1-Trichloroethane	ug/kg	3.9 U	4.4 U	4.1 U	--	4.0 U	4.1 U	--	4.3 U	3.8 U	4.0 U	4.0 U	4.6 U	4.6 U	4.0 U	4.0 U
Bromomethane	ug/kg	3.9 U	4.4 U	4.1 U	--	4.0 U	4.1 U	--	4.3 U	3.8 U	4.0 U	4.0 U	4.6 U	4.6 U	4.0 U	4.0 U
Chloromethane	ug/kg	3.9 U	4.4 U	4.1 U	--	4.0 U	4.1 U	--	4.3 U	3.8 U	4.0 U	4.0 U	4.6 U	4.6 U	4.0 U	4.0 U
Dibromomethane	ug/kg	3.9 U	4.4 U	4.1 U	--	4.0 U	4.1 U	--	4.3 U	3.8 U	4.0 U	4.0 U	4.6 U	4.6 U	4.0 U	4.0 U
Bromochloromethane	ug/kg	3.9 U	4.4 U	4.1 U	--	4.0 U	4.1 U	--	4.3 U	3.8 U	4.0 U	4.0 U	4.6 U	4.6 U	4.0 U	4.0 U
Chloroethane	ug/kg	3.9 U	4.4 U	4.1 U	--	4.0 U	4.1 U	--	4.3 U	3.8 U	4.0 U	4.0 U	4.6 U	4.6 U	4.0 U	4.0 U
Vinyl Chloride	ug/kg	3.9 U	4.4 U	4.1 U	--	4.0 U	4.1 U	--	4.3 U	3.8 U	4.0 U	4.0 U	4.6 U	4.6 U	4.0 U	4.0 U
Methylene chloride	ug/kg	3.9 U	4.4 U	4.1 U	--	4.0 U	4.1 U	--	4.3 U	3.8 U	4.0 U	4.0 U	4.6 U	4.6 U	4.0 U	4.0 U
Bromoform	ug/kg	3.9 U	4.4 U	4.1 U	--	4.0 U	4.1 U	--	4.3 U	3.8 U	4.0 U	4.0 U	4.6 U	4.6 U	4.0 U	4.0 U
Bromodichloromethane	ug/kg	3.9 U	4.4 U	4.1 U	--	4.0 U	4.1 U	--	4.3 U	3.8 U	4.0 U	4.0 U	4.6 U	4.6 U	4.0 U	4.0 U
1,1-Dichloroethane	ug/kg	3.9 U	4.4 U	4.1 U	--	4.0 U	4.1 U	--	4.3 U	3.8 U	4.0 U	4.0 U	4.6 U	4.6 U	4.0 U	4.0 U
1,1-Dichloroethene	ug/kg	3.9 U	4.4 U	4.1 U	--	4.0 U	4.1 U	--	4.3 U	3.8 U	4.0 U	4.0 U	4.6 U	4.6 U	4.0 U	4.0 U
Trichlorofluoromethane	ug/kg	3.9 U	4.4 U	4.1 U	--	4.0 U	4.1 U	--	4.3 U	3.8 U	4.0 U	4.0 U	4.6 U	4.6 U	4.0 U	4.0 U
Dichlorodifluoromethane	ug/kg	3.9 U	4.4 U	4.1 U	--	4.0 U	4.1 U	--	4.3 U	3.8 U	4.0 U	4.0 U	4.6 U	4.6 U	4.0 U	4.0 U
Freon 113a	ug/kg	4.8 U	5.5 U	5.2 U	--	5.0 U	5.2 U	--	5.4 U	4.7 U	5.0 U	5.0 U	5.8 U	5.7 U	5.0 U	5.0 U
Freon 113	ug/kg	3.9 U	4.4 U	4.1 U	--	4.0 U	4.1 U	--	4.3 U	3.8 U	4.0 U	4.0 U	4.6 U	4.6 U	4.0 U	4.0 U
1,2-Dichloropropane	ug/kg	3.9 U	4.4 U	4.1 U	--	4.0 U	4.1 U	--	4.3 U	3.8 U	4.0 U	4.0 U	4.6 U	4.6 U	4.0 U	4.0 U
2-Butanone	ug/kg	8.4	8.8 U	8.3 U	--	7.9 U	8.3 U	--	8.7 U	7.5 U	7.9 U	8.0 U	9.3 U	9.2 U	8.0 U	8.1 U
1,1,2-Trichloroethane	ug/kg	3.9 U	4.4 U	4.1 U	--	4.0 U	4.1 U	--	4.3 U	3.8 U	4.0 U	4.0 U	4.6 U	4.6 U	4.0 U	4.0 U
Trichloroethene	ug/kg	3.9 U	0.18 J	4.1 U	--	4.0 U	4.1 U	--	4.3 U	3.8 U	4.0 U	4.0 U	4.6 U	4.6 U	4.0 U	0.87 J
1,1,2,2-Tetrachloroethane	ug/kg	3.9 U	4.4 U	4.1 U	--	4.0 U	4.1 U	--	4.3 U	3.8 U	4.0 U	4.0 U	4.6 U	4.6 U	4.0 U	4.0 U
Chlorotrifluoroethene	ug/kg	4.8 U	5.5 U	5.2 U	--	5.0 U	5.2 U	--	5.4 U	4.7 U	5.0 U	5.0 UJ	5.8 U	5.7 U	5.0 U	5.0 U
1,2,3-Trichlorobenzene	ug/kg	3.9 U	4.4 U	4.1 U	--	4.0 U	4.1 U	--	4.3 U	3.8 U	4.0 U	4.0 U	4.6 U	4.6 U	4.0 U	4.0 U
o-Xylene	ug/kg	3.9 U	4.4 U	4.1 U	--	4.0 U	4.1 U	--	4.3 U	3.8 U	4.0 U	4.0 U	4.6 U	4.6 U	4.0 U	4.0 U
2-Chlorotoluene	ug/kg	3.9 U	4.4 U	4.1 U	--	4.0 U	4.1 U	--	4.3 U	3.8 U	4.0 U	4.0 U	4.6 U	4.6 U	4.0 U	4.0 U
1,2,4-Trimethylbenzene	ug/kg	3.9 U	4.4 U	4.1 U	--	4.0 U	4.1 U	--	4.3 U	3.8 U	4.0 U	4.0 U	4.6 U	4.6 U	4.0 U	4.0 U
1,2-Dibromo-3-chloropropane	ug/kg	3.9 U	4.4 U	4.1 U	--	4.0 U	4.1 U	--	4.3 U	3.8 U	4.0 U	4.0 U	4.6 U	4.6 U	4.0 U	4.0 U
1,2,3-Trichloropropane	ug/kg	3.9 U	4.4 U	4.1 U	--	4.0 U	4.1 U	--	4.3 U	3.8 U	4.0 U	4.0 U	4.6 U	4.6 U	4.0 U	4.0 U
tert-Butylbenzene	ug/kg	3.9 U	4.4 U	4.1 U	--	4.0 U	4.1 U	--	4.3 U	3.8 U	4.0 U	4.0 U	4.6 U	4.6 U	4.0 U	4.0 U
Isopropylbenzene	ug/kg	3.9 U	4.4 U	4.1 U	--	4.0 U	4.1 U	--	4.3 U	3.8 U	4.0 U	4.0 U	4.6 U	4.6 U	4.0 U	4.0 U

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

Appendix A7
Inorganic Data Summary - Validated Data
HSA -5C

Sample Name		SL-071-SA5C-SB-4.0-5.0	SL-071-SA5C-SB-9.0-10.0	SL-072-SA5C-SB-4.0-5.0	SL-072-SA5C-SB-7.5-8.5	SL-074-SA5C-SB-4.0-5.0	SL-075-SA5C-SB-4.0-5.0	SL-076-SA5C-SB-3.0-4.0	SL-077-SA5C-SB-3.0-4.0	SL-078-SA5C-SB-4.0-5.0	SL-079-SA5C-SB-4.0-5.0	SL-080-SA5C-SB-4.0-5.0	SL-081-SA5C-SB-3.0-4.0	SL-083-SA5C-SB-2.5-3.5	SL-085-SA5C-SB-2.5-3.0	SL-086-SA5C-SB-4.0-5.0
Sample Date		11/29/2010	11/29/2010	11/17/2010	11/17/2010	11/30/2010	11/29/2010	11/23/2010	11/23/2010	11/22/2010	11/17/2010	11/17/2010	11/17/2010	11/16/2010	11/16/2010	11/11/2010
SDG		DX011	DX011	DE018	DE018	DE025	DX011	DE022	DE022	DE021	DE018	DE018	DE018	DE017	DE017	DE014
Start Depth		4	9	4	7.5	4	4	3	3	4	4	4	3	2.5	2.5	4
End Depth		5	10	5	8.5	5	5	4	4	5	5	5	4	3.5	3	5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
GRO (C5-C12)	mg/kg	1.1 U	1.0 U	1 U	--	--	--	1 U	1.1 U	--	--	--	--	--	--	--
EFH (C15-C20)	mg/kg	1.4 U	3.2	1.1 J	1.3 U	--	--	1.3 U	1.3 U	--	--	--	--	--	--	--
EFH (C21-C30)	mg/kg	1.4 U	18	24	5.2	--	--	1.3 U	1.3 U	--	--	--	--	--	--	--
EFH (C30-C40)	mg/kg	1.4 U	77	20	6.4	--	--	0.95 J	1.3 U	--	--	--	--	--	--	--
EFH (C8-C11)	mg/kg	1.4 U	2.7 U	1.3 U	1.3 U	--	--	1.3 U	1.3 U	--	--	--	--	--	--	--
1,4-Dichlorobenzene	ug/kg	4.4 U	4.5 U	4.1 U	--	4.1 U	4.4 U	4.3 U	4.9 U	4.2 U	4.2 U	4.5 U	4.0 U	4.6 U	5.8 U	4.1 U
1,2,4-Trichlorobenzene	ug/kg	4.4 U	4.5 U	4.1 U	--	4.1 U	4.4 U	4.3 U	4.9 U	4.2 U	4.2 U	4.5 U	4.0 U	4.6 U	5.8 U	4.1 U
1,3-Dichlorobenzene	ug/kg	4.4 U	4.5 U	4.1 U	--	4.1 U	4.4 U	4.3 U	4.9 U	4.2 U	4.2 U	4.5 U	4.0 U	4.6 U	5.8 U	4.1 U
Hexachlorobutadiene	ug/kg	4.4 U	4.5 U	4.1 U	--	4.1 U	4.4 U	4.3 U	4.9 U	4.2 U	4.2 U	4.5 U	4.0 U	4.6 U	5.8 U	4.1 U
1,2-Dichlorobenzene	ug/kg	4.4 U	4.5 U	4.1 U	--	4.1 U	4.4 U	4.3 U	4.9 U	4.2 U	4.2 U	4.5 U	4.0 U	4.6 U	5.8 U	4.1 U
Isopropyltoluene	ug/kg	4.4 U	4.5 U	4.1 U	--	4.1 U	4.4 U	4.3 U	4.9 U	4.2 U	4.2 U	4.5 U	4.0 U	4.6 U	5.8 U	4.1 U
Ethylbenzene	ug/kg	4.4 U	4.5 U	4.1 U	--	4.1 U	4.4 U	4.3 U	4.9 U	4.2 U	4.2 U	4.5 U	4.0 U	4.6 U	5.8 U	4.1 U
Styrene	ug/kg	4.4 U	4.5 U	4.1 U	--	4.1 U	4.4 U	4.3 U	4.9 U	4.2 U	4.2 U	4.5 U	4.0 U	4.6 U	5.8 U	4.1 U
cis-1,3-Dichloropropene	ug/kg	4.4 U	4.5 U	4.1 U	--	4.1 U	4.4 U	4.3 U	4.9 U	4.2 U	4.2 U	4.5 U	4.0 U	4.6 U	5.8 U	4.1 U
trans-1,3-Dichloropropene	ug/kg	4.4 U	4.5 U	4.1 U	--	4.1 U	4.4 U	4.3 U	4.9 U	4.2 U	4.2 U	4.5 U	4.0 U	4.6 U	5.8 U	4.1 U
N-Propylbenzene	ug/kg	4.4 U	4.5 U	4.1 U	--	4.1 U	4.4 U	4.3 U	4.9 U	4.2 U	4.2 U	4.5 U	4.0 U	4.6 U	5.8 U	4.1 U
N-Butylbenzene	ug/kg	4.4 U	4.5 U	4.1 U	--	4.1 U	4.4 U	4.3 U	4.9 U	4.2 U	4.2 U	4.5 U	4.0 U	4.6 U	5.8 U	4.1 U
4-Chlorotoluene	ug/kg	4.4 U	4.5 U	4.1 U	--	4.1 U	4.4 U	4.3 U	4.9 U	4.2 U	4.2 U	4.5 U	4.0 U	4.6 U	5.8 U	4.1 U
1,2-Dibromoethane	ug/kg	4.4 U	4.5 U	4.1 U	--	4.1 U	4.4 U	4.3 U	4.9 U	4.2 U	4.2 U	4.5 U	4.0 U	4.6 U	5.8 U	4.1 U
1,2-Dichloroethane	ug/kg	4.4 U	4.5 U	4.1 U	--	4.1 U	4.4 U	4.3 U	4.9 U	4.2 U	4.2 U	4.5 U	4.0 U	4.6 U	5.8 U	4.1 U
4-Methyl-2-Pentanone	ug/kg	8.9 U	9.0 U	8.1 U	--	8.2 U	8.8 U	8.6 U	9.8 U	8.3 U	8.5 U	8.9 U	7.9 U	9.2 U	12 U	8.2 U
1,3,5-Trimethylbenzene	ug/kg	4.4 U	4.5 U	4.1 U	--	4.1 U	4.4 U	4.3 U	4.9 U	4.2 U	4.2 U	4.5 U	4.0 U	4.6 U	5.8 U	4.1 U
Bromobenzene	ug/kg	4.4 U	4.5 U	4.1 U	--	4.1 U	4.4 U	4.3 U	4.9 U	4.2 U	4.2 U	4.5 U	4.0 U	4.6 U	5.8 U	4.1 U
Toluene	ug/kg	4.4 U	4.5 U	4.1 U	--	4.1 U	4.4 U	4.3 U	4.9 U	4.2 U	4.2 U	4.5 U	4.0 U	4.6 U	5.8 U	4.1 U
Chlorobenzene	ug/kg	4.4 U	4.5 U	4.1 U	--	4.1 U	4.4 U	4.3 U	4.9 U	4.2 U	4.2 U	4.5 U	4.0 U	4.6 U	5.8 U	4.1 U
2-Chloroethyl Vinyl Ether	ug/kg	4.4 U	4.5 U	4.1 U	--	4.1 U	4.4 U	4.3 U	4.9 U	4.2 U	4.2 U	4.5 U	4.0 U	4.6 U	5.8 U	4.1 U
1,4-Dioxane	ug/kg	15 U	18 U	15 U	--	16 U	15 U	15 U	17 U	15 U	15 U	17 U	15 U	16 U	22 U	18 U
Dibromochloromethane	ug/kg	4.4 U	4.5 U	4.1 U	--	4.1 U	4.4 U	4.3 U	4.9 U	4.2 U	4.2 U	4.5 U	4.0 U	4.6 U	5.8 U	4.1 U
Tetrachloroethene	ug/kg	4.4 U	4.5 U	4.1 U	--	4.1 U	4.4 U	4.3 U	4.9 U	4.2 U	4.2 U	4.5 U	4.0 U	4.6 U	5.8 U	4.1 U
sec-Butylbenzene	ug/kg	4.4 U	4.5 U	4.1 U	--	4.1 U	4.4 U	4.3 U	4.9 U	4.2 U	4.2 U	4.5 U	4.0 U	4.6 U	5.8 U	4.1 U
1,3-Dichloropropane	ug/kg	4.4 U	4.5 U	4.1 U	--	4.1 U	4.4 U	4.3 U	4.9 U	4.2 U	4.2 U	4.5 U	4.0 U	4.6 U	5.8 U	4.1 U
cis-1,2-Dichloroethene	ug/kg	4.4 U	4.5 U	4.1 U	--	4.1 U	4.4 U	4.3 U	4.9 U	4.2 U	4.2 U	4.5 U	4.0 U	4.6 U	5.8 U	4.1 U
trans-1,2-Dichloroethene	ug/kg	4.4 U	4.5 U	4.1 U	--	4.1 U	4.4 U	4.3 U	4.9 U	4.2 U	4.2 U	4.5 U	4.0 U	4.6 U	5.8 U	4.1 U
Methyl tert-Butyl Ether	ug/kg	4.4 U	4.5 U	4.1 U	--	4.1 U	4.4 U	4.3 U	4.9 U	4.2 U	4.2 U	4.5 U	4.0 U	4.6 U	5.8 U	4.1 U
m,p-Xylene	ug/kg	4.4 U	4.5 U	4.1 U	--	4.1 U	4.4 U	4.3 U	4.9 U	4.2 U	4.2 U	4.5 U	4.0 U	4.6 U	5.8 U	4.1 U
Carbon tetrachloride	ug/kg	4.4 U	4.5 U	4.1 U	--	4.1 U	4.4 U	4.3 U	4.9 U	4.2 U	4.2 U	4.5 U	4.0 U	4.6 U	5.8 U	4.1 U
1,1-Dichloropropene	ug/kg	4.4 U	4.5 U	4.1 U	--	4.1 U	4.4 U	4.3 U	4.9 U	4.2 U	4.2 U	4.5 U	4.0 U	4.6 U	5.8 U	4.1 U
2-Hexanone	ug/kg	8.9 U	9.0 U	8.1 U	--	8.2 U	8.8 U	8.6 U	9.8 U	8.3 U	8.5 U	8.9 U	7.9 U	9.2 U	12 U	8.2 U
2,2-Dichloropropane	ug/kg	4.4 U	4.5 U	4.1 U	--	4.1 U	4.4 U	4.3 U	4.9 U	4.2 U	4.2 U	4.5 U	4.0 U	4.6 U	5.8 U	4.1 U
1,1,1,2-Tetrachloroethane	ug/kg	4.4 U	4.5 U	4.1 U	--	4.1 U	4.4 U	4.3 U	4.9 U	4.2 U	4.2 U	4.5 U	4.0 U	4.6 U	5.8 U	4.1 U
Acetone	ug/kg	8.9 U	9.0 U	8.1 U	--	8.2 U	8.8 U	8.6 U	9.8 U	8.3 U	8.5 U	8.9 U	7.9 U	9.2 U	12 U	8.2 U

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

Appendix A7
Inorganic Data Summary - Validated Data
HSA -5C

Sample Name		SL-071-SA5C-SB-4.0-5.0	SL-071-SA5C-SB-9.0-10.0	SL-072-SA5C-SB-4.0-5.0	SL-072-SA5C-SB-7.5-8.5	SL-074-SA5C-SB-4.0-5.0	SL-075-SA5C-SB-4.0-5.0	SL-076-SA5C-SB-3.0-4.0	SL-077-SA5C-SB-3.0-4.0	SL-078-SA5C-SB-4.0-5.0	SL-079-SA5C-SB-4.0-5.0	SL-080-SA5C-SB-4.0-5.0	SL-081-SA5C-SB-3.0-4.0	SL-083-SA5C-SB-2.5-3.5	SL-085-SA5C-SB-2.5-3.0	SL-086-SA5C-SB-4.0-5.0
Sample Date		11/29/2010	11/29/2010	11/17/2010	11/17/2010	11/30/2010	11/29/2010	11/23/2010	11/23/2010	11/22/2010	11/17/2010	11/17/2010	11/17/2010	11/16/2010	11/16/2010	11/11/2010
SDG		DX011	DX011	DE018	DE018	DE025	DX011	DE022	DE022	DE021	DE018	DE018	DE018	DE017	DE017	DE014
Start Depth		4	9	4	7.5	4	4	3	3	4	4	4	3	2.5	2.5	4
End Depth		5	10	5	8.5	5	5	4	4	5	5	5	4	3.5	3	5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Chloroform	ug/kg	4.4 U	4.5 U	4.1 U	--	4.1 U	4.4 U	4.3 U	4.9 U	4.2 U	4.2 U	4.5 U	4.0 U	4.6 U	5.8 U	4.1 U
Benzene	ug/kg	4.4 U	4.5 U	4.1 U	--	4.1 U	4.4 U	4.3 U	4.9 U	4.2 U	4.2 U	4.5 U	4.0 U	4.6 U	5.8 U	4.1 U
1,1,1-Trichloroethane	ug/kg	4.4 U	4.5 U	4.1 U	--	4.1 U	4.4 U	4.3 U	4.9 U	4.2 U	4.2 U	4.5 U	4.0 U	4.6 U	5.8 U	4.1 U
Bromomethane	ug/kg	4.4 U	4.5 U	4.1 U	--	4.1 U	4.4 U	4.3 U	4.9 U	4.2 U	4.2 U	4.5 U	4.0 U	4.6 U	5.8 U	4.1 U
Chloromethane	ug/kg	4.4 U	4.5 U	4.1 U	--	4.1 U	4.4 U	4.3 U	4.9 U	4.2 U	4.2 U	4.5 U	4.0 U	4.6 U	5.8 U	4.1 U
Dibromomethane	ug/kg	4.4 U	4.5 U	4.1 U	--	4.1 U	4.4 U	4.3 U	4.9 U	4.2 U	4.2 U	4.5 U	4.0 U	4.6 U	5.8 U	4.1 U
Bromochloromethane	ug/kg	4.4 U	4.5 U	4.1 UJ	--	4.1 U	4.4 U	4.3 U	4.9 U	4.2 U	4.2 UJ	4.5 UJ	4.0 UJ	4.6 U	5.8 U	4.1 U
Chloroethane	ug/kg	4.4 U	4.5 U	4.1 U	--	4.1 U	4.4 U	4.3 U	4.9 U	4.2 U	4.2 U	4.5 U	4.0 U	4.6 U	5.8 U	4.1 U
Vinyl Chloride	ug/kg	4.4 U	4.5 U	4.1 U	--	4.1 U	4.4 U	4.3 U	4.9 U	4.2 U	4.2 U	4.5 U	4.0 U	4.6 U	5.8 U	4.1 U
Methylene chloride	ug/kg	4.4 U	4.5 U	2.5 J	--	4.1 U	4.4 U	4.3 U	4.9 U	4.2 U	0.79 J	4.5 U	4.0 U	4.6 U	1.1 J	4.1 U
Bromoform	ug/kg	4.4 U	4.5 U	4.1 U	--	4.1 U	4.4 U	4.3 U	4.9 U	4.2 U	4.2 U	4.5 U	4.0 U	4.6 U	5.8 U	4.1 U
Bromodichloromethane	ug/kg	4.4 U	4.5 U	4.1 U	--	4.1 U	4.4 U	4.3 U	4.9 U	4.2 U	4.2 U	4.5 U	4.0 U	4.6 U	5.8 U	4.1 U
1,1-Dichloroethane	ug/kg	4.4 U	4.5 U	4.1 U	--	4.1 U	4.4 U	4.3 U	4.9 U	4.2 U	4.2 U	4.5 U	4.0 U	4.6 U	5.8 U	4.1 U
1,1-Dichloroethene	ug/kg	4.4 U	4.5 U	4.1 U	--	4.1 U	4.4 U	4.3 U	4.9 U	4.2 U	4.2 U	4.5 U	4.0 U	4.6 U	5.8 U	4.1 U
Trichlorofluoromethane	ug/kg	4.4 U	4.5 U	4.1 U	--	4.1 U	4.4 U	4.3 U	4.9 U	4.2 U	4.2 U	4.5 U	4.0 U	4.6 U	5.8 U	4.1 U
Dichlorodifluoromethane	ug/kg	4.4 U	4.5 U	4.1 U	--	4.1 U	4.4 U	4.3 U	4.9 U	4.2 U	4.2 U	4.5 U	4.0 U	4.6 U	5.8 U	4.1 U
Freon 113a	ug/kg	5.6 U	5.6 U	5.1 U	--	5.1 U	5.5 U	5.4 U	6.1 U	5.2 U	5.3 U	5.6 U	4.9 U	5.7 U	7.2 U	5.1 U
Freon 113	ug/kg	4.4 U	4.5 U	4.1 U	--	4.1 U	4.4 U	4.3 U	4.9 U	4.2 U	4.2 U	4.5 U	4.0 U	4.6 U	5.8 U	4.1 U
1,2-Dichloropropane	ug/kg	4.4 U	4.5 U	4.1 U	--	4.1 U	4.4 U	4.3 U	4.9 U	4.2 U	4.2 U	4.5 U	4.0 U	4.6 U	5.8 U	4.1 U
2-Butanone	ug/kg	8.9 U	9.0 U	8.1 U	--	8.2 U	8.8 U	8.6 U	9.8 U	8.3 U	8.5 U	8.9 U	7.9 U	9.2 U	12 U	8.2 U
1,1,2-Trichloroethane	ug/kg	4.4 U	4.5 U	4.1 U	--	4.1 U	4.4 U	4.3 U	4.9 U	4.2 U	4.2 U	4.5 U	4.0 U	4.6 U	5.8 U	4.1 U
Trichloroethene	ug/kg	4.4 U	4.5 U	4.1 U	--	4.1 U	4.4 U	4.3 U	4.9 U	4.2 U	4.2 U	4.5 U	4.0 U	4.6 U	5.8 U	4.1 U
1,1,2,2-Tetrachloroethane	ug/kg	4.4 U	4.5 U	4.1 U	--	4.1 U	4.4 U	4.3 U	4.9 U	4.2 U	4.2 U	4.5 U	4.0 U	4.6 U	5.8 U	4.1 U
Chlorotrifluoroethene	ug/kg	5.6 U	5.6 U	5.1 U	--	5.1 U	5.5 U	5.4 U	6.1 U	5.2 U	5.3 U	5.6 U	4.9 U	5.7 U	7.2 U	5.1 U
1,2,3-Trichlorobenzene	ug/kg	4.4 U	4.5 U	4.1 U	--	4.1 U	4.4 U	4.3 U	4.9 U	4.2 U	4.2 U	4.5 U	4.0 U	4.6 U	5.8 U	4.1 U
o-Xylene	ug/kg	4.4 U	4.5 U	4.1 U	--	4.1 U	4.4 U	4.3 U	4.9 U	4.2 U	4.2 U	4.5 U	4.0 U	4.6 U	5.8 U	4.1 U
2-Chlorotoluene	ug/kg	4.4 U	4.5 U	4.1 U	--	4.1 U	4.4 U	4.3 U	4.9 U	4.2 U	4.2 U	4.5 U	4.0 U	4.6 U	5.8 U	4.1 U
1,2,4-Trimethylbenzene	ug/kg	4.4 U	4.5 U	4.1 U	--	4.1 U	4.4 U	4.3 U	4.9 U	4.2 U	4.2 U	4.5 U	4.0 U	4.6 U	5.8 U	4.1 U
1,2-Dibromo-3-chloropropane	ug/kg	4.4 U	4.5 U	4.1 U	--	4.1 U	4.4 U	4.3 U	4.9 U	4.2 U	4.2 U	4.5 U	4.0 U	4.6 U	5.8 U	4.1 U
1,2,3-Trichloropropane	ug/kg	4.4 U	4.5 U	4.1 U	--	4.1 U	4.4 U	4.3 U	4.9 U	4.2 U	4.2 U	4.5 U	4.0 U	4.6 U	5.8 U	4.1 U
tert-Butylbenzene	ug/kg	4.4 U	4.5 U	4.1 U	--	4.1 U	4.4 U	4.3 U	4.9 U	4.2 U	4.2 U	4.5 U	4.0 U	4.6 U	5.8 U	4.1 U
Isopropylbenzene	ug/kg	4.4 U	4.5 U	4.1 U	--	4.1 U	4.4 U	4.3 U	4.9 U	4.2 U	4.2 U	4.5 U	4.0 U	4.6 U	5.8 U	4.1 U

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

Appendix A7
Inorganic Data Summary - Validated Data
HSA -5C

Sample Name		SL-088-SA5C-SB-4.0-5.0	SL-090-SA5C-SB-4.0-5.0	SL-093-SA5C-SB-4.0-5.0	SL-094-SA5C-SB-4.0-5.0	SL-096-SA5C-SB-4.0-5.0	SL-097-SA5C-SB-4.0-5.0	SL-098-SA5C-SB-4.0-5.0	SL-099-SA5C-SB-4.0-5.0	SL-100-SA5C-SB-4.0-5.0	SL-101-SA5C-SB-4.0-5.0	SL-102-SA5C-SB-4.0-5.0	SL-103-SA5C-SB-4.0-5.0	SL-104-SA5C-SB-4.0-5.0	SL-106-SA5C-SB-4.0-5.0	SL-107-SA5C-SB-4.0-5.0
Sample Date		11/12/2010	11/15/2010	11/15/2010	11/15/2010	11/12/2010	11/12/2010	11/09/2010	11/09/2010	11/11/2010	11/11/2010	11/09/2010	11/10/2010	11/11/2010	11/08/2010	11/08/2010
SDG		DE015	DE016	DE016	DE016	DE015	DE015	DE012	DE012	DE014	DE014	DE012	DE013	DE014	DE011	DE011
Start Depth		4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
End Depth		5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
GRO (C5-C12)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EFH (C15-C20)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EFH (C21-C30)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EFH (C30-C40)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EFH (C8-C11)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	ug/kg	3.9 U	4.1 U	4.0 U	3.9 U	4.1 U	3.7 U	4.0 U	3.9 U	4.0 U	3.7 U	4.3 U	3.9 U	4.0 U	3.9 U	3.9 U
1,2,4-Trichlorobenzene	ug/kg	3.9 U	4.1 U	4.0 U	3.9 U	4.1 U	3.7 U	4.0 U	3.9 U	4.0 U	3.7 U	4.3 U	3.9 U	4.0 U	3.9 U	3.9 U
1,3-Dichlorobenzene	ug/kg	3.9 U	4.1 U	4.0 U	3.9 U	4.1 U	3.7 U	4.0 U	3.9 U	4.0 U	3.7 U	4.3 U	3.9 U	4.0 U	3.9 U	3.9 U
Hexachlorobutadiene	ug/kg	3.9 U	4.1 U	4.0 U	3.9 U	4.1 U	3.7 U	4.0 U	3.9 U	4.0 U	3.7 U	4.3 U	3.9 U	4.0 U	3.9 U	3.9 U
1,2-Dichlorobenzene	ug/kg	3.9 U	4.1 U	4.0 U	3.9 U	4.1 U	3.7 U	4.0 U	3.9 U	4.0 U	3.7 U	4.3 U	3.9 U	4.0 U	3.9 U	3.9 U
Isopropyltoluene	ug/kg	3.9 U	4.1 U	4.0 U	3.9 U	4.1 U	3.7 U	4.0 U	3.9 U	4.0 U	3.7 U	4.3 U	3.9 U	4.0 U	3.9 U	3.9 U
Ethylbenzene	ug/kg	3.9 U	4.1 U	4.0 U	3.9 U	4.1 U	3.7 U	4.0 U	3.9 U	4.0 U	3.7 U	4.3 U	3.9 U	4.0 U	3.9 U	3.9 U
Styrene	ug/kg	3.9 U	4.1 U	4.0 U	3.9 U	4.1 U	3.7 U	4.0 U	3.9 U	4.0 U	3.7 U	4.3 U	3.9 U	4.0 U	3.9 U	3.9 U
cis-1,3-Dichloropropene	ug/kg	3.9 U	4.1 U	4.0 U	3.9 U	4.1 U	3.7 U	4.0 U	3.9 U	4.0 U	3.7 U	4.3 U	3.9 U	4.0 U	3.9 U	3.9 U
trans-1,3-Dichloropropene	ug/kg	3.9 U	4.1 U	4.0 U	3.9 U	4.1 U	3.7 U	4.0 U	3.9 U	4.0 U	3.7 U	4.3 U	3.9 U	4.0 U	3.9 U	3.9 U
N-Propylbenzene	ug/kg	3.9 U	4.1 U	4.0 U	3.9 U	4.1 U	3.7 U	4.0 U	3.9 U	4.0 U	3.7 U	4.3 U	3.9 U	4.0 U	3.9 U	3.9 U
N-Butylbenzene	ug/kg	3.9 U	4.1 U	4.0 U	3.9 U	4.1 U	3.7 U	4.0 U	3.9 U	4.0 U	3.7 U	4.3 U	3.9 U	4.0 U	3.9 U	3.9 U
4-Chlorotoluene	ug/kg	3.9 U	4.1 U	4.0 U	3.9 U	4.1 U	3.7 U	4.0 U	3.9 U	4.0 U	3.7 U	4.3 U	3.9 U	4.0 U	3.9 U	3.9 U
1,2-Dibromoethane	ug/kg	3.9 U	4.1 U	4.0 U	3.9 U	4.1 U	3.7 U	4.0 U	3.9 U	4.0 U	3.7 U	4.3 U	3.9 U	4.0 U	3.9 U	3.9 U
1,2-Dichloroethane	ug/kg	3.9 U	4.1 U	4.0 U	3.9 U	4.1 U	3.7 U	4.0 U	3.9 U	4.0 U	3.7 U	4.3 U	3.9 U	4.0 U	3.9 U	3.9 U
4-Methyl-2-Pentanone	ug/kg	7.8 U	8.3 U	8.0 U	7.8 U	8.1 U	7.4 U	7.9 U	7.7 U	8.0 U	7.4 U	8.6 U	7.8 U	8.1 U	7.9 U	7.9 U
1,3,5-Trimethylbenzene	ug/kg	3.9 U	4.1 U	4.0 U	3.9 U	4.1 U	3.7 U	4.0 U	3.9 U	4.0 U	3.7 U	4.3 U	3.9 U	4.0 U	3.9 U	3.9 U
Bromobenzene	ug/kg	3.9 U	4.1 U	4.0 U	3.9 U	4.1 U	3.7 U	4.0 U	3.9 U	4.0 U	3.7 U	4.3 U	3.9 U	4.0 U	3.9 U	3.9 U
Toluene	ug/kg	3.9 U	0.09 J	4.0 U	0.08 J	4.1 U	0.11 J	4.0 U	3.9 U	4.0 U	3.7 U	4.3 U	3.9 U	4.0 U	3.9 U	3.9 U
Chlorobenzene	ug/kg	3.9 U	4.1 U	4.0 U	3.9 U	4.1 U	3.7 U	4.0 U	3.9 U	4.0 U	3.7 U	4.3 U	3.9 U	4.0 U	3.9 U	3.9 U
2-Chloroethyl Vinyl Ether	ug/kg	3.9 U	4.1 U	4.0 U	3.9 U	4.1 U	3.7 U	4.0 U	3.9 U	4.0 U	3.7 U	4.3 U	3.9 U	4.0 U	3.9 U	3.9 U
1,4-Dioxane	ug/kg	15 U	16 U	14 U	15 U	15 U	16 U	15 U	14 U	13 U	13 U	16 U	15 U	17 U	15 U	14 U
Dibromochloromethane	ug/kg	3.9 U	4.1 U	4.0 U	3.9 U	4.1 U	3.7 U	4.0 U	3.9 U	4.0 U	3.7 U	4.3 U	3.9 U	4.0 U	3.9 U	3.9 U
Tetrachloroethene	ug/kg	3.9 U	4.1 U	4.0 U	3.9 U	4.1 U	3.7 U	4.0 U	3.9 U	4.0 U	3.7 U	4.3 U	3.9 U	4.0 U	3.9 U	3.9 U
sec-Butylbenzene	ug/kg	3.9 U	4.1 U	4.0 U	3.9 U	4.1 U	3.7 U	4.0 U	3.9 U	4.0 U	3.7 U	4.3 U	3.9 U	4.0 U	3.9 U	3.9 U
1,3-Dichloropropane	ug/kg	3.9 U	4.1 U	4.0 U	3.9 U	4.1 U	3.7 U	4.0 U	3.9 U	4.0 U	3.7 U	4.3 U	3.9 U	4.0 U	3.9 U	3.9 U
cis-1,2-Dichloroethene	ug/kg	3.9 U	4.1 U	4.0 U	3.9 U	4.1 U	3.7 U	4.0 U	3.9 U	4.0 U	3.7 U	4.3 U	3.9 U	4.0 U	3.9 U	3.9 U
trans-1,2-Dichloroethene	ug/kg	3.9 U	4.1 U	4.0 U	3.9 U	4.1 U	3.7 U	4.0 U	3.9 U	4.0 U	3.7 U	4.3 U	3.9 U	4.0 U	3.9 U	3.9 U
Methyl tert-Butyl Ether	ug/kg	3.9 U	4.1 U	4.0 U	3.9 U	4.1 U	3.7 U	4.0 U	3.9 U	4.0 U	3.7 U	4.3 U	3.9 U	4.0 U	3.9 U	3.9 U
m,p-Xylene	ug/kg	3.9 U	4.1 U	4.0 U	3.9 U	4.1 U	3.7 U	4.0 U	3.9 U	4.0 U	3.7 U	4.3 U	3.9 U	4.0 U	3.9 U	3.9 U
Carbon tetrachloride	ug/kg	3.9 U	4.1 U	4.0 U	3.9 U	4.1 U	3.7 U	4.0 U	3.9 U	4.0 U	3.7 U	4.3 U	3.9 U	4.0 U	3.9 U	3.9 U
1,1-Dichloropropene	ug/kg	3.9 U	4.1 U	4.0 U	3.9 U	4.1 U	3.7 U	4.0 U	3.9 U	4.0 U	3.7 U	4.3 U	3.9 U	4.0 U	3.9 U	3.9 U
2-Hexanone	ug/kg	7.8 U	8.3 U	8.0 U	7.8 U	8.1 U	7.4 U	7.9 U	7.7 U	8.0 U	7.4 U	8.6 U	7.8 U	8.1 U	7.9 U	7.9 U
2,2-Dichloropropane	ug/kg	3.9 U	4.1 U	4.0 U	3.9 U	4.1 U	3.7 U	4.0 U	3.9 U	4.0 U	3.7 U	4.3 U	3.9 U	4.0 U	3.9 U	3.9 U
1,1,1,2-Tetrachloroethane	ug/kg	3.9 U	4.1 U	4.0 U	3.9 U	4.1 U	3.7 U	4.0 U	3.9 U	4.0 U	3.7 U	4.3 U	3.9 U	4.0 U	3.9 U	3.9 U
Acetone	ug/kg	7.8 U	8.3 U	8.0 U	7.8 U	8.1 U	7.4 U	7.9 U	7.7 U	8.0 U	7.4 U	8.6 U	7.8 U	8.1 U	7.9 U	7.9 U

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

Appendix A7
Inorganic Data Summary - Validated Data
HSA -5C

Sample Name		SL-088-SA5C-SB-4.0-5.0	SL-090-SA5C-SB-4.0-5.0	SL-093-SA5C-SB-4.0-5.0	SL-094-SA5C-SB-4.0-5.0	SL-096-SA5C-SB-4.0-5.0	SL-097-SA5C-SB-4.0-5.0	SL-098-SA5C-SB-4.0-5.0	SL-099-SA5C-SB-4.0-5.0	SL-100-SA5C-SB-4.0-5.0	SL-101-SA5C-SB-4.0-5.0	SL-102-SA5C-SB-4.0-5.0	SL-103-SA5C-SB-4.0-5.0	SL-104-SA5C-SB-4.0-5.0	SL-106-SA5C-SB-4.0-5.0	SL-107-SA5C-SB-4.0-5.0
Sample Date		11/12/2010	11/15/2010	11/15/2010	11/15/2010	11/12/2010	11/12/2010	11/09/2010	11/09/2010	11/11/2010	11/11/2010	11/09/2010	11/10/2010	11/11/2010	11/08/2010	11/08/2010
SDG		DE015	DE016	DE016	DE016	DE015	DE015	DE012	DE012	DE014	DE014	DE012	DE013	DE014	DE011	DE011
Start Depth		4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
End Depth		5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Chloroform	ug/kg	3.9 U	4.1 U	4.0 U	3.9 U	4.1 U	3.7 U	4.0 U	3.9 U	4.0 U	3.7 U	4.3 U	3.9 U	4.0 U	0.14 J	3.9 U
Benzene	ug/kg	3.9 U	4.1 U	4.0 U	3.9 U	4.1 U	3.7 U	4.0 U	3.9 U	4.0 U	3.7 U	4.3 U	3.9 U	4.0 U	3.9 U	3.9 U
1,1,1-Trichloroethane	ug/kg	3.9 U	4.1 U	4.0 U	3.9 U	4.1 U	3.7 U	4.0 U	3.9 U	4.0 U	3.7 U	4.3 U	3.9 U	4.0 U	3.9 U	3.9 U
Bromomethane	ug/kg	3.9 U	4.1 U	4.0 U	3.9 U	4.1 U	3.7 U	4.0 U	3.9 U	4.0 U	3.7 U	4.3 U	3.9 U	4.0 U	3.9 U	3.9 U
Chloromethane	ug/kg	3.9 U	4.1 U	4.0 U	3.9 U	4.1 U	3.7 U	4.0 U	3.9 U	4.0 U	3.7 U	4.3 U	3.9 U	4.0 U	3.9 U	3.9 U
Dibromomethane	ug/kg	3.9 U	4.1 U	4.0 U	3.9 U	4.1 U	3.7 U	4.0 U	3.9 U	4.0 U	3.7 U	4.3 U	3.9 U	4.0 U	3.9 U	3.9 U
Bromochloromethane	ug/kg	3.9 U	4.1 U	4.0 U	3.9 U	4.1 U	3.7 U	4.0 U	3.9 U	4.0 U	3.7 U	4.3 U	3.9 U	4.0 U	3.9 U	3.9 U
Chloroethane	ug/kg	3.9 U	4.1 U	4.0 U	3.9 U	4.1 U	3.7 U	4.0 U	3.9 U	4.0 U	3.7 U	4.3 U	3.9 U	4.0 U	3.9 U	3.9 U
Vinyl Chloride	ug/kg	3.9 U	4.1 U	4.0 U	3.9 U	4.1 U	3.7 U	4.0 U	3.9 U	4.0 U	3.7 U	4.3 U	3.9 U	4.0 U	3.9 U	3.9 U
Methylene chloride	ug/kg	3.9 U	4.1 U	4.0 U	3.9 U	4.1 U	3.7 U	5.6	2.1 J	4.0 U	3.7 U	1.9 J	3.9 U	4.0 U	3.9 U	3.9 U
Bromoform	ug/kg	3.9 U	4.1 U	4.0 U	3.9 U	4.1 U	3.7 U	4.0 U	3.9 U	4.0 U	3.7 U	4.3 U	3.9 U	4.0 U	3.9 U	3.9 U
Bromodichloromethane	ug/kg	3.9 U	4.1 U	4.0 U	3.9 U	4.1 U	3.7 U	4.0 U	3.9 U	4.0 U	3.7 U	4.3 U	3.9 U	4.0 U	3.9 U	3.9 U
1,1-Dichloroethane	ug/kg	3.9 U	4.1 U	4.0 U	3.9 U	4.1 U	3.7 U	4.0 U	3.9 U	4.0 U	3.7 U	4.3 U	3.9 U	4.0 U	3.9 U	3.9 U
1,1-Dichloroethene	ug/kg	3.9 U	4.1 U	4.0 U	3.9 U	4.1 U	3.7 U	4.0 U	3.9 U	4.0 U	3.7 U	4.3 U	3.9 U	4.0 U	3.9 U	3.9 U
Trichlorofluoromethane	ug/kg	3.9 U	4.1 U	4.0 U	3.9 U	4.1 U	3.7 U	4.0 U	3.9 U	4.0 U	3.7 U	4.3 U	3.9 U	4.0 U	3.9 U	3.9 U
Dichlorodifluoromethane	ug/kg	3.9 U	4.1 U	4.0 U	3.9 U	4.1 U	3.7 U	4.0 U	3.9 U	4.0 U	3.7 U	4.3 U	3.9 U	4.0 U	3.9 U	3.9 U
Freon 113a	ug/kg	4.9 U	5.2 U	5.0 U	4.9 U	5.1 U	4.6 U	5.0 U	4.8 U	5.0 U	4.6 U	5.4 U	4.9 U	5.1 U	4.9 U	4.9 U
Freon 113	ug/kg	3.9 U	4.1 U	4.0 U	3.9 U	4.1 U	3.7 U	4.0 U	3.9 U	4.0 U	3.7 U	4.3 U	3.9 U	4.0 U	3.9 U	3.9 U
1,2-Dichloropropane	ug/kg	3.9 U	4.1 U	4.0 U	3.9 U	4.1 U	3.7 U	4.0 U	3.9 U	4.0 U	3.7 U	4.3 U	3.9 U	4.0 U	3.9 U	3.9 U
2-Butanone	ug/kg	7.8 U	8.3 U	8.0 U	7.8 U	8.1 U	7.4 U	7.9 U	7.7 U	8.0 U	7.4 U	8.6 U	7.8 U	8.1 U	7.9 U	7.9 U
1,1,2-Trichloroethane	ug/kg	3.9 U	4.1 U	4.0 U	3.9 U	4.1 U	3.7 U	4.0 U	3.9 U	4.0 U	3.7 U	4.3 U	3.9 U	4.0 U	3.9 U	3.9 U
Trichloroethene	ug/kg	3.9 U	4.1 U	4.0 U	3.9 U	4.1 U	3.7 U	4.0 U	3.9 U	4.0 U	3.7 U	4.3 U	3.9 U	4.0 U	3.9 U	3.9 U
1,1,2,2-Tetrachloroethane	ug/kg	3.9 U	4.1 U	4.0 U	3.9 U	4.1 U	3.7 U	4.0 U	3.9 U	4.0 U	3.7 U	4.3 U	3.9 U	4.0 U	3.9 U	3.9 U
Chlorotrifluoroethene	ug/kg	4.9 U	5.2 U	5.0 U	4.9 U	5.1 U	4.6 U	5.0 U	4.8 U	5.0 U	4.6 U	5.4 U	4.9 U	5.1 U	4.9 U	4.9 U
1,2,3-Trichlorobenzene	ug/kg	3.9 U	4.1 U	4.0 U	3.9 U	4.1 U	3.7 U	4.0 U	3.9 U	4.0 U	3.7 U	4.3 U	3.9 U	4.0 U	3.9 U	3.9 U
o-Xylene	ug/kg	3.9 U	4.1 U	4.0 U	3.9 U	4.1 U	3.7 U	4.0 U	3.9 U	4.0 U	3.7 U	4.3 U	3.9 U	4.0 U	3.9 U	3.9 U
2-Chlorotoluene	ug/kg	3.9 U	4.1 U	4.0 U	3.9 U	4.1 U	3.7 U	4.0 U	3.9 U	4.0 U	3.7 U	4.3 U	3.9 U	4.0 U	3.9 U	3.9 U
1,2,4-Trimethylbenzene	ug/kg	3.9 U	4.1 U	4.0 U	3.9 U	4.1 U	3.7 U	4.0 U	3.9 U	4.0 U	3.7 U	4.3 U	3.9 U	4.0 U	3.9 U	3.9 U
1,2-Dibromo-3-chloropropane	ug/kg	3.9 U	4.1 U	4.0 U	3.9 U	4.1 U	3.7 U	4.0 U	3.9 U	4.0 U	3.7 U	4.3 U	3.9 U	4.0 U	3.9 U	3.9 U
1,2,3-Trichloropropane	ug/kg	3.9 U	4.1 U	4.0 U	3.9 U	4.1 U	3.7 U	4.0 U	3.9 U	4.0 U	3.7 U	4.3 U	3.9 U	4.0 U	3.9 U	3.9 U
tert-Butylbenzene	ug/kg	3.9 U	4.1 U	4.0 U	3.9 U	4.1 U	3.7 U	4.0 U	3.9 U	4.0 U	3.7 U	4.3 U	3.9 U	4.0 U	3.9 U	3.9 U
Isopropylbenzene	ug/kg	3.9 U	4.1 U	4.0 U	3.9 U	4.1 U	3.7 U	4.0 U	3.9 U	4.0 U	3.7 U	4.3 U	3.9 U	4.0 U	3.9 U	3.9 U

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

Appendix A7
Inorganic Data Summary - Validated Data
HSA -5C

Sample Name		SL-108-SA5C-SB-4.0-5.0	SL-109-SA5C-SB-4.0-5.0	SL-110-SA5C-SB-4.0-5.0	SL-111-SA5C-SB-4.0-5.0	SL-112-SA5C-SB-4.0-5.0	SL-118-SA5C-SB-4.0-5.0	SL-119-SA5C-SB-4.0-5.0	SL-120-SA5C-SB-4.0-5.0	SL-122-SA5C-SB-4.0-5.0	SL-124-SA5C-SB-4.5-5.5	SL-125-SA5C-SB-4.0-6.0	SL-126-SA5C-SB-4.0-5.0	SL-127-SA5C-SB-4.0-5.0	SL-128-SA5C-SB-4.0-5.0	SL-129-SA5C-SB-4.0-5.0
Sample Date		11/08/2010	11/08/2010	11/10/2010	11/10/2010	11/05/2010	11/03/2010	11/03/2010	11/03/2010	11/05/2010	01/05/2011	11/01/2010	11/02/2010	11/01/2010	11/02/2010	11/05/2010
SDG		DE011	DE011	DE013	DE013	DE010	DE008	DE008	DE008	DE010	DE053	DE006	DE007	DE006	DE007	DE010
Start Depth		4	4	4	4	4	4	4	4	4	4.5	4	4	4	4	4
End Depth		5	5	5	5	5	5	5	5	5	5.5	6	5	5	5	5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
GRO (C5-C12)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EFH (C15-C20)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EFH (C21-C30)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EFH (C30-C40)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EFH (C8-C11)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	ug/kg	3.9 U	3.6 U	4.3 U	3.8 U	4.0 U	4.6 U	4.1 U	4.1 U	3.7 U	4.7 U	4.1 U	4.7 U	4.1 U	4.5 U	4.1 U
1,2,4-Trichlorobenzene	ug/kg	3.9 U	3.6 U	4.3 U	3.8 U	4.0 U	4.6 U	4.1 U	4.1 U	3.7 U	4.7 U	4.1 U	4.7 U	4.1 U	4.5 U	4.1 U
1,3-Dichlorobenzene	ug/kg	3.9 U	3.6 U	4.3 U	3.8 U	4.0 U	4.6 U	4.1 U	4.1 U	3.7 U	4.7 U	4.1 U	4.7 U	4.1 U	4.5 U	4.1 U
Hexachlorobutadiene	ug/kg	3.9 U	3.6 U	4.3 U	3.8 U	4.0 U	4.6 U	4.1 U	4.1 U	3.7 U	4.7 U	4.1 U	4.7 U	4.1 U	4.5 U	4.1 U
1,2-Dichlorobenzene	ug/kg	3.9 U	3.6 U	4.3 U	3.8 U	4.0 U	4.6 U	4.1 U	4.1 U	3.7 U	4.7 U	4.1 U	4.7 U	4.1 U	4.5 U	4.1 U
Isopropyltoluene	ug/kg	3.9 U	3.6 U	4.3 U	3.8 U	4.0 U	4.6 U	4.1 U	4.1 U	3.7 U	4.7 U	4.1 U	4.7 U	4.1 U	4.5 U	4.1 U
Ethylbenzene	ug/kg	3.9 U	3.6 U	4.3 U	3.8 U	4.0 U	4.6 U	4.1 U	4.1 U	3.7 U	4.7 U	4.1 U	4.7 U	4.1 U	4.5 U	4.1 U
Styrene	ug/kg	3.9 U	3.6 U	4.3 U	3.8 U	4.0 U	4.6 U	4.1 U	4.1 U	3.7 U	4.7 U	4.1 U	4.7 U	4.1 U	4.5 U	4.1 U
cis-1,3-Dichloropropene	ug/kg	3.9 U	3.6 U	4.3 U	3.8 U	4.0 U	4.6 U	4.1 U	4.1 U	3.7 U	4.7 U	4.1 U	4.7 U	4.1 U	4.5 U	4.1 U
trans-1,3-Dichloropropene	ug/kg	3.9 U	3.6 U	4.3 U	3.8 U	4.0 U	4.6 U	4.1 U	4.1 U	3.7 U	4.7 U	4.1 U	4.7 U	4.1 U	4.5 U	4.1 U
N-Propylbenzene	ug/kg	3.9 U	3.6 U	4.3 U	3.8 U	4.0 U	4.6 U	4.1 U	4.1 U	3.7 U	4.7 U	4.1 U	4.7 U	4.1 U	4.5 U	4.1 U
N-Butylbenzene	ug/kg	3.9 U	3.6 U	4.3 U	3.8 U	4.0 U	4.6 U	4.1 U	4.1 U	3.7 U	4.7 U	4.1 U	4.7 U	4.1 U	4.5 U	4.1 U
4-Chlorotoluene	ug/kg	3.9 U	3.6 U	4.3 U	3.8 U	4.0 U	4.6 U	4.1 U	4.1 U	3.7 U	4.7 U	4.1 U	4.7 U	4.1 U	4.5 U	4.1 U
1,2-Dibromoethane	ug/kg	3.9 U	3.6 U	4.3 U	3.8 U	4.0 U	4.6 U	4.1 U	4.1 U	3.7 U	4.7 U	4.1 U	4.7 U	4.1 U	4.5 U	4.1 U
1,2-Dichloroethane	ug/kg	3.9 U	3.6 U	4.3 U	3.8 U	4.0 U	4.6 U	4.1 U	4.1 U	3.7 U	4.7 U	4.1 U	4.7 U	4.1 U	4.5 U	4.1 U
4-Methyl-2-Pentanone	ug/kg	0.47 J	7.3 U	8.6 U	7.5 U	8.0 U	9.1 U	8.1 U	8.2 U	7.3 U	9.4 U	8.3 U	9.3 U	8.2 U	9.0 U	8.3 U
1,3,5-Trimethylbenzene	ug/kg	3.9 U	3.6 U	4.3 U	3.8 U	4.0 U	4.6 U	4.1 U	4.1 U	3.7 U	4.7 U	4.1 U	4.7 U	4.1 U	4.5 U	4.1 U
Bromobenzene	ug/kg	3.9 U	3.6 U	4.3 U	3.8 U	4.0 U	4.6 U	4.1 U	4.1 U	3.7 U	4.7 U	4.1 U	4.7 U	4.1 U	4.5 U	4.1 U
Toluene	ug/kg	3.9 U	3.6 U	4.3 U	3.8 U	4.0 U	0.18 J	4.1 U	0.09 J	3.7 U	4.7 U	0.11 J	4.7 U	4.1 U	0.26 J	4.1 U
Chlorobenzene	ug/kg	3.9 U	3.6 U	4.3 U	3.8 U	4.0 U	4.6 U	4.1 U	4.1 U	3.7 U	4.7 U	4.1 U	4.7 U	4.1 U	4.5 U	4.1 U
2-Chloroethyl Vinyl Ether	ug/kg	3.9 U	3.6 U	4.3 U	3.8 U	4.0 U	4.6 U	4.1 U	4.1 U	3.7 U	4.7 U	4.1 U	4.7 U	4.1 U	4.5 U	4.1 U
1,4-Dioxane	ug/kg	15 U	14 U	15 U	16 U	13 U	17 U	15 U	17 U	13 U	16 U	21 U	16 U	14 U	15 U	16 U
Dibromochloromethane	ug/kg	3.9 U	3.6 U	4.3 U	3.8 U	4.0 U	4.6 U	4.1 U	4.1 U	3.7 U	4.7 U	4.1 U	4.7 U	4.1 U	4.5 U	4.1 U
Tetrachloroethene	ug/kg	3.9 U	3.6 U	4.3 U	3.8 U	4.0 U	4.6 U	4.1 U	4.1 U	3.7 U	4.7 U	4.1 U	4.7 U	4.1 U	4.5 U	4.1 U
sec-Butylbenzene	ug/kg	3.9 U	3.6 U	4.3 U	3.8 U	4.0 U	4.6 U	4.1 U	4.1 U	3.7 U	4.7 U	4.1 U	4.7 U	4.1 U	4.5 U	4.1 U
1,3-Dichloropropane	ug/kg	3.9 U	3.6 U	4.3 U	3.8 U	4.0 U	4.6 U	4.1 U	4.1 U	3.7 U	4.7 U	4.1 U	4.7 U	4.1 U	4.5 U	4.1 U
cis-1,2-Dichloroethene	ug/kg	3.9 U	3.6 U	4.3 U	3.8 U	4.0 U	4.6 U	4.1 U	4.1 U	3.7 U	4.7 U	4.1 U	4.7 U	4.1 U	4.5 U	4.1 U
trans-1,2-Dichloroethene	ug/kg	3.9 U	3.6 U	4.3 U	3.8 U	4.0 U	4.6 U	4.1 U	4.1 U	3.7 U	4.7 U	4.1 U	4.7 U	4.1 U	4.5 U	4.1 U
Methyl tert-Butyl Ether	ug/kg	3.9 U	3.6 U	4.3 U	3.8 U	4.0 U	4.6 U	4.1 U	4.1 U	3.7 U	4.7 U	4.1 U	4.7 U	4.1 U	4.5 U	4.1 U
m,p-Xylene	ug/kg	3.9 U	3.6 U	4.3 U	3.8 U	4.0 U	4.6 U	4.1 U	4.1 U	3.7 U	4.7 U	4.1 U	4.7 U	4.1 U	4.5 U	4.1 U
Carbon tetrachloride	ug/kg	3.9 U	3.6 U	4.3 U	3.8 U	4.0 U	4.6 U	4.1 U	4.1 U	3.7 U	4.7 U	4.1 U	4.7 U	4.1 U	4.5 U	4.1 U
1,1-Dichloropropene	ug/kg	3.9 U	3.6 U	4.3 U	3.8 U	4.0 U	4.6 U	4.1 U	4.1 U	3.7 U	4.7 U	4.1 U	4.7 U	4.1 U	4.5 U	4.1 U
2-Hexanone	ug/kg	7.9 U	7.3 U	8.6 U	7.5 U	8.0 U	9.1 U	8.1 U	8.2 U	7.3 U	9.4 U	8.3 U	9.3 U	8.2 U	9.0 U	8.3 U
2,2-Dichloropropane	ug/kg	3.9 U	3.6 U	4.3 U	3.8 U	4.0 U	4.6 U	4.1 U	4.1 U	3.7 U	4.7 U	4.1 U	4.7 U	4.1 U	4.5 U	4.1 U
1,1,1,2-Tetrachloroethane	ug/kg	3.9 U	3.6 U	4.3 U	3.8 U	4.0 U	4.6 U	4.1 U	4.1 U	3.7 U	4.7 U	4.1 U	4.7 U	4.1 U	4.5 U	4.1 U
Acetone	ug/kg	7.9 U	7.3 U	8.6 U	7.5 U	8.0 U	9.1 U	8.1 U	8.2 U	7.3 U	8.3 J	8.3 U	9.3 U	8.2 U	9.0 U	8.3 U

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

Appendix A7
Inorganic Data Summary - Validated Data
HSA -5C

Sample Name		SL-108-SA5C-SB-4.0-5.0	SL-109-SA5C-SB-4.0-5.0	SL-110-SA5C-SB-4.0-5.0	SL-111-SA5C-SB-4.0-5.0	SL-112-SA5C-SB-4.0-5.0	SL-118-SA5C-SB-4.0-5.0	SL-119-SA5C-SB-4.0-5.0	SL-120-SA5C-SB-4.0-5.0	SL-122-SA5C-SB-4.0-5.0	SL-124-SA5C-SB-4.5-5.5	SL-125-SA5C-SB-4.0-6.0	SL-126-SA5C-SB-4.0-5.0	SL-127-SA5C-SB-4.0-5.0	SL-128-SA5C-SB-4.0-5.0	SL-129-SA5C-SB-4.0-5.0
Sample Date		11/08/2010	11/08/2010	11/10/2010	11/10/2010	11/05/2010	11/03/2010	11/03/2010	11/03/2010	11/05/2010	01/05/2011	11/01/2010	11/02/2010	11/01/2010	11/02/2010	11/05/2010
SDG		DE011	DE011	DE013	DE013	DE010	DE008	DE008	DE008	DE010	DE053	DE006	DE007	DE006	DE007	DE010
Start Depth		4	4	4	4	4	4	4	4	4	4.5	4	4	4	4	4
End Depth		5	5	5	5	5	5	5	5	5	5.5	6	5	5	5	5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Chloroform	ug/kg	0.15 J	3.6 U	4.3 U	3.8 U	0.14 J	0.16 J	4.1 U	0.19 J	3.7 U	4.7 U	0.75 J	4.7 U	0.60 J	0.15 J	4.1 U
Benzene	ug/kg	3.9 U	3.6 U	4.3 U	3.8 U	4.0 U	4.6 U	4.1 U	4.1 U	3.7 U	4.7 U	4.1 U	4.7 U	4.1 U	4.5 U	4.1 U
1,1,1-Trichloroethane	ug/kg	3.9 U	3.6 U	4.3 U	3.8 U	4.0 U	4.6 U	4.1 U	4.1 U	3.7 U	4.7 U	4.1 U	4.7 U	4.1 U	4.5 U	4.1 U
Bromomethane	ug/kg	3.9 U	3.6 U	4.3 U	3.8 U	4.0 U	4.6 U	4.1 U	4.1 U	3.7 U	4.7 U	4.1 U	4.7 U	4.1 U	4.5 U	4.1 U
Chloromethane	ug/kg	3.9 U	3.6 U	4.3 U	3.8 U	4.0 U	4.6 U	4.1 U	4.1 U	3.7 U	4.7 U	4.1 U	4.7 U	4.1 U	4.5 U	4.1 U
Dibromomethane	ug/kg	3.9 U	3.6 U	4.3 U	3.8 U	4.0 U	4.6 U	4.1 U	4.1 U	3.7 U	4.7 U	4.1 U	4.7 U	4.1 U	4.5 U	4.1 U
Bromochloromethane	ug/kg	3.9 U	3.6 U	4.3 U	3.8 U	4.0 U	4.6 U	4.1 U	4.1 U	3.7 U	4.7 U	4.1 U	4.7 U	4.1 U	4.5 U	4.1 U
Chloroethane	ug/kg	3.9 U	3.6 U	4.3 U	3.8 U	4.0 U	4.6 U	4.1 U	4.1 U	3.7 U	4.7 U	4.1 U	4.7 U	4.1 U	4.5 U	4.1 U
Vinyl Chloride	ug/kg	3.9 U	3.6 U	4.3 U	3.8 U	4.0 U	4.6 U	4.1 U	4.1 U	3.7 U	4.7 U	4.1 U	4.7 U	4.1 U	4.5 U	4.1 U
Methylene chloride	ug/kg	4.5 U	3.6 U	4.3 U	3.8 U	4.0 U	4.8 U	4.1 U	15	3.7 U	0.75 J	15	4.7 U	14	4.5 U	4.1 U
Bromoform	ug/kg	3.9 U	3.6 U	4.3 U	3.8 U	4.0 U	4.6 U	4.1 U	4.1 U	3.7 U	4.7 U	4.1 U	4.7 U	4.1 U	4.5 U	4.1 U
Bromodichloromethane	ug/kg	3.9 U	3.6 U	4.3 U	3.8 U	4.0 U	4.6 U	4.1 U	4.1 U	3.7 U	4.7 U	4.1 U	4.7 U	4.1 U	4.5 U	4.1 U
1,1-Dichloroethane	ug/kg	3.9 U	3.6 U	4.3 U	3.8 U	4.0 U	4.6 U	4.1 U	4.1 U	3.7 U	4.7 U	4.1 U	4.7 U	4.1 U	4.5 U	4.1 U
1,1-Dichloroethene	ug/kg	3.9 U	3.6 U	4.3 U	3.8 U	4.0 U	4.6 U	4.1 U	4.1 U	3.7 U	4.7 U	4.1 U	4.7 U	4.1 U	4.5 U	4.1 U
Trichlorofluoromethane	ug/kg	3.9 U	3.6 U	4.3 U	3.8 U	4.0 U	4.6 U	4.1 U	4.1 U	3.7 U	4.7 U	4.1 U	4.7 U	4.1 U	4.5 U	4.1 U
Dichlorodifluoromethane	ug/kg	3.9 U	3.6 U	4.3 U	3.8 U	4.0 U	4.6 U	4.1 U	4.1 U	3.7 U	4.7 U	4.1 U	4.7 U	4.1 U	4.5 U	4.1 U
Freon 113a	ug/kg	4.9 U	4.5 U	5.4 U	4.7 U	5.0 U	5.7 U	5.1 U	5.1 U	4.6 U	5.9 U	5.2 U	5.8 U	5.1 U	5.6 U	5.2 U
Freon 113	ug/kg	3.9 U	3.6 U	4.3 U	3.8 U	4.0 U	4.6 U	4.1 U	4.1 U	3.7 U	4.7 U	4.1 U	4.7 U	4.1 U	4.5 U	4.1 U
1,2-Dichloropropane	ug/kg	3.9 U	3.6 U	4.3 U	3.8 U	4.0 U	4.6 U	4.1 U	4.1 U	3.7 U	4.7 U	4.1 U	4.7 U	4.1 U	4.5 U	4.1 U
2-Butanone	ug/kg	7.9 U	7.3 U	8.6 U	7.5 U	8.0 U	9.1 U	8.1 U	8.2 U	7.3 U	9.4 U	8.3 U	9.3 U	8.2 U	9.0 U	8.3 U
1,1,2-Trichloroethane	ug/kg	3.9 U	3.6 U	4.3 U	3.8 U	4.0 U	4.6 U	4.1 U	4.1 U	3.7 U	4.7 U	4.1 U	4.7 U	4.1 U	4.5 U	4.1 U
Trichloroethene	ug/kg	3.9 U	3.6 U	4.3 U	3.8 U	4.0 U	4.6 U	4.1 U	4.1 U	3.7 U	4.7 U	4.1 U	4.7 U	4.1 U	4.5 U	4.1 U
1,1,2,2-Tetrachloroethane	ug/kg	3.9 U	3.6 U	4.3 U	3.8 U	4.0 U	4.6 U	4.1 U	4.1 U	3.7 U	4.7 U	4.1 U	4.7 U	4.1 U	4.5 U	4.1 U
Chlorotrifluoroethene	ug/kg	4.9 U	4.5 U	5.4 U	4.7 U	5.0 U	5.7 U	5.1 U	5.1 U	4.6 U	5.9 U	5.2 U	5.8 U	5.1 U	5.6 U	5.2 U
1,2,3-Trichlorobenzene	ug/kg	3.9 U	3.6 U	4.3 U	3.8 U	4.0 U	4.6 U	4.1 U	4.1 U	3.7 U	4.7 U	4.1 U	4.7 U	4.1 U	4.5 U	4.1 U
o-Xylene	ug/kg	3.9 U	3.6 U	4.3 U	3.8 U	4.0 U	4.6 U	4.1 U	4.1 U	3.7 U	4.7 U	4.1 U	4.7 U	4.1 U	4.5 U	4.1 U
2-Chlorotoluene	ug/kg	3.9 U	3.6 U	4.3 U	3.8 U	4.0 U	4.6 U	4.1 U	4.1 U	3.7 U	4.7 U	4.1 U	4.7 U	4.1 U	4.5 U	4.1 U
1,2,4-Trimethylbenzene	ug/kg	3.9 U	3.6 U	4.3 U	3.8 U	4.0 U	4.6 U	4.1 U	4.1 U	3.7 U	4.7 U	4.1 U	4.7 U	4.1 U	4.5 U	4.1 U
1,2-Dibromo-3-chloropropane	ug/kg	3.9 U	3.6 U	4.3 U	3.8 U	4.0 U	4.6 U	4.1 U	4.1 U	3.7 U	4.7 U	4.1 U	4.7 U	4.1 U	4.5 U	4.1 U
1,2,3-Trichloropropane	ug/kg	3.9 U	3.6 U	4.3 U	3.8 U	4.0 U	4.6 U	4.1 U	4.1 U	3.7 U	4.7 U	4.1 U	4.7 U	4.1 U	4.5 U	4.1 U
tert-Butylbenzene	ug/kg	3.9 U	3.6 U	4.3 U	3.8 U	4.0 U	4.6 U	4.1 U	4.1 U	3.7 U	4.7 U	4.1 U	4.7 U	4.1 U	4.5 U	4.1 U
Isopropylbenzene	ug/kg	3.9 U	3.6 U	4.3 U	3.8 U	4.0 U	4.6 U	4.1 U	4.1 U	3.7 U	4.7 U	4.1 U	4.7 U	4.1 U	4.5 U	4.1 U

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

Appendix A7
Inorganic Data Summary - Validated Data
HSA -5C

Sample Name		SL-130-SA5C-SB-4.0-5.0	SL-131-SA5C-SB-4.0-5.0	SL-132-SA5C-SB-4.0-5.0	SL-133-SA5C-SB-4.0-5.0	SL-134-SA5C-SB-4.0-5.0	SL-137-SA5C-SB-4.5-5.5	SL-140-SA5C-SB-3.0-4.0
Sample Date		11/03/2010	11/04/2010	11/04/2010	11/04/2010	11/04/2010	01/05/2011	12/14/2010
SDG		DE008	DE009	DE009	DE009	DE009	DE053	DE039
Start Depth		4	4	4	4	4	4.5	3
End Depth		5	5	5	5	5	5.5	4
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result
GRO (C5-C12)	mg/kg	--	--	--	--	--	--	--
EFH (C15-C20)	mg/kg	--	--	--	--	--	--	--
EFH (C21-C30)	mg/kg	--	--	--	--	--	--	--
EFH (C30-C40)	mg/kg	--	--	--	--	--	--	--
EFH (C8-C11)	mg/kg	--	--	--	--	--	--	--
1,4-Dichlorobenzene	ug/kg	4.8 U	3.9 U	4.4 U	4.2 U	3.7 U	4.7 U	4.2 U
1,2,4-Trichlorobenzene	ug/kg	4.8 U	3.9 U	4.4 U	4.2 U	3.7 U	4.7 U	4.2 U
1,3-Dichlorobenzene	ug/kg	4.8 U	3.9 U	4.4 U	4.2 U	3.7 U	4.7 U	4.2 U
Hexachlorobutadiene	ug/kg	4.8 U	3.9 U	4.4 U	4.2 U	3.7 U	4.7 U	4.2 U
1,2-Dichlorobenzene	ug/kg	4.8 U	3.9 U	4.4 U	4.2 U	3.7 U	4.7 U	4.2 U
Isopropyltoluene	ug/kg	4.8 U	3.9 U	4.4 U	4.2 U	3.7 U	4.7 U	4.2 U
Ethylbenzene	ug/kg	4.8 U	0.07 J	4.4 U	4.2 U	3.7 U	4.7 U	4.2 U
Styrene	ug/kg	4.8 U	3.9 U	4.4 U	4.2 U	3.7 U	4.7 U	4.2 U
cis-1,3-Dichloropropene	ug/kg	4.8 U	3.9 U	4.4 U	4.2 U	3.7 U	4.7 U	4.2 U
trans-1,3-Dichloropropene	ug/kg	4.8 U	3.9 U	4.4 U	4.2 U	3.7 U	4.7 U	4.2 U
N-Propylbenzene	ug/kg	4.8 U	3.9 U	4.4 U	4.2 U	3.7 U	4.7 U	4.2 U
N-Butylbenzene	ug/kg	4.8 U	3.9 U	4.4 U	4.2 U	3.7 U	4.7 U	4.2 U
4-Chlorotoluene	ug/kg	4.8 U	3.9 U	4.4 U	4.2 U	3.7 U	4.7 U	4.2 U
1,2-Dibromoethane	ug/kg	4.8 U	3.9 U	4.4 U	4.2 U	3.7 U	4.7 U	4.2 U
1,2-Dichloroethane	ug/kg	4.8 U	3.9 U	4.4 U	4.2 U	3.7 U	4.7 U	4.2 U
4-Methyl-2-Pentanone	ug/kg	9.6 U	0.81 J	8.7 U	8.5 U	7.3 U	9.3 U	8.4 U
1,3,5-Trimethylbenzene	ug/kg	4.8 U	3.9 U	4.4 U	4.2 U	3.7 U	4.7 U	4.2 U
Bromobenzene	ug/kg	4.8 U	3.9 U	4.4 U	4.2 U	3.7 U	4.7 U	4.2 U
Toluene	ug/kg	4.8 U	3.9 U	4.4 U	1.2 J	3.7 U	4.7 U	0.09 J
Chlorobenzene	ug/kg	4.8 U	3.9 U	4.4 U	4.2 U	3.7 U	4.7 U	4.2 U
2-Chloroethyl Vinyl Ether	ug/kg	4.8 U	3.9 U	4.4 U	4.2 U	3.7 U	4.7 U	4.2 U
1,4-Dioxane	ug/kg	15 U	15 U	14 U	15 U	15 U	16 U	15 U
Dibromochloromethane	ug/kg	4.8 U	3.9 U	4.4 U	4.2 U	3.7 U	4.7 U	4.2 U
Tetrachloroethene	ug/kg	4.8 U	3.9 U	4.4 U	4.2 U	3.7 U	4.7 U	4.2 U
sec-Butylbenzene	ug/kg	4.8 U	3.9 U	4.4 U	4.2 U	3.7 U	4.7 U	4.2 U
1,3-Dichloropropane	ug/kg	4.8 U	3.9 U	4.4 U	4.2 U	3.7 U	4.7 U	4.2 U
cis-1,2-Dichloroethene	ug/kg	4.8 U	3.9 U	4.4 U	4.2 U	3.7 U	4.7 U	4.2 U
trans-1,2-Dichloroethene	ug/kg	4.8 U	3.9 U	4.4 U	4.2 U	3.7 U	4.7 U	4.2 U
Methyl tert-Butyl Ether	ug/kg	4.8 U	3.9 U	4.4 U	4.2 U	3.7 U	4.7 U	4.2 U
m,p-Xylene	ug/kg	4.8 U	0.19 J	4.4 U	4.2 U	3.7 U	4.7 U	4.2 U
Carbon tetrachloride	ug/kg	4.8 U	3.9 U	4.4 U	4.2 U	3.7 U	4.7 U	4.2 U
1,1-Dichloropropene	ug/kg	4.8 U	3.9 U	4.4 U	4.2 U	3.7 U	4.7 U	4.2 U
2-Hexanone	ug/kg	9.6 U	7.7 U	8.7 U	8.5 U	7.3 U	9.3 U	8.4 UJ
2,2-Dichloropropane	ug/kg	4.8 U	3.9 U	4.4 U	4.2 U	3.7 U	4.7 U	4.2 U
1,1,1,2-Tetrachloroethane	ug/kg	4.8 U	3.9 U	4.4 U	4.2 U	3.7 U	4.7 U	4.2 U
Acetone	ug/kg	9.6 U	7.7 U	8.7 U	8.5 U	7.3 U	9.3 U	8.4 U

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

Appendix A7
Inorganic Data Summary - Validated Data
HSA -5C

Sample Name		SL-130-SA5C-SB-4.0-5.0	SL-131-SA5C-SB-4.0-5.0	SL-132-SA5C-SB-4.0-5.0	SL-133-SA5C-SB-4.0-5.0	SL-134-SA5C-SB-4.0-5.0	SL-137-SA5C-SB-4.5-5.5	SL-140-SA5C-SB-3.0-4.0
Sample Date		11/03/2010	11/04/2010	11/04/2010	11/04/2010	11/04/2010	01/05/2011	12/14/2010
SDG		DE008	DE009	DE009	DE009	DE009	DE053	DE039
Start Depth		4	4	4	4	4	4.5	3
End Depth		5	5	5	5	5	5.5	4
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result
Chloroform	ug/kg	4.8 U	0.15 J	0.15 J	0.13 J	3.7 U	4.7 U	4.2 U
Benzene	ug/kg	4.8 U	3.9 U	4.4 U	0.11 J	3.7 U	4.7 U	4.2 U
1,1,1-Trichloroethane	ug/kg	4.8 U	3.9 U	4.4 U	4.2 U	3.7 U	4.7 U	4.2 U
Bromomethane	ug/kg	4.8 U	3.9 U	4.4 U	4.2 U	3.7 U	4.7 U	4.2 U
Chloromethane	ug/kg	4.8 U	3.9 U	4.4 U	4.2 U	3.7 U	4.7 U	4.2 U
Dibromomethane	ug/kg	4.8 U	3.9 U	4.4 U	4.2 U	3.7 U	4.7 U	4.2 U
Bromochloromethane	ug/kg	4.8 U	3.9 U	4.4 U	4.2 U	3.7 U	4.7 U	4.2 U
Chloroethane	ug/kg	4.8 U	3.9 U	4.4 U	4.2 U	3.7 U	4.7 U	4.2 U
Vinyl Chloride	ug/kg	4.8 U	3.9 U	4.4 U	4.2 U	3.7 U	4.7 U	4.2 U
Methylene chloride	ug/kg	4.8 U	4.0 U	4.4 U	4.2 U	3.7 U	0.31 J	4.2 U
Bromoform	ug/kg	4.8 U	3.9 U	4.4 U	4.2 U	3.7 U	4.7 U	4.2 U
Bromodichloromethane	ug/kg	4.8 U	3.9 U	4.4 U	4.2 U	3.7 U	4.7 U	4.2 U
1,1-Dichloroethane	ug/kg	4.8 U	3.9 U	4.4 U	4.2 U	3.7 U	4.7 U	4.2 U
1,1-Dichloroethene	ug/kg	4.8 U	3.9 U	4.4 U	4.2 U	3.7 U	4.7 U	4.2 U
Trichlorofluoromethane	ug/kg	4.8 U	3.9 U	4.4 U	4.2 U	3.7 U	4.7 U	4.2 U
Dichlorodifluoromethane	ug/kg	4.8 U	3.9 U	4.4 U	4.2 U	3.7 U	4.7 U	4.2 U
Freon 113a	ug/kg	6.0 U	4.8 U	5.4 U	5.3 U	4.6 U	5.8 U	5.2 U
Freon 113	ug/kg	4.8 U	3.9 U	4.4 U	4.2 U	3.7 U	4.7 U	4.2 U
1,2-Dichloropropane	ug/kg	4.8 U	3.9 U	4.4 U	4.2 U	3.7 U	4.7 U	4.2 U
2-Butanone	ug/kg	9.6 U	7.7 U	8.7 U	8.5 U	7.3 U	9.3 U	8.4 U
1,1,2-Trichloroethane	ug/kg	4.8 U	3.9 U	4.4 U	4.2 U	3.7 U	4.7 U	4.2 U
Trichloroethene	ug/kg	4.8 U	3.9 U	4.4 U	4.2 U	3.7 U	4.7 U	4.2 U
1,1,2,2-Tetrachloroethane	ug/kg	4.8 U	3.9 U	4.4 U	4.2 U	3.7 U	4.7 U	4.2 U
Chlorotrifluoroethene	ug/kg	6.0 U	4.8 U	5.4 U	5.3 U	4.6 U	5.8 U	5.2 U
1,2,3-Trichlorobenzene	ug/kg	4.8 U	3.9 U	4.4 U	4.2 U	3.7 U	4.7 U	4.2 U
o-Xylene	ug/kg	4.8 U	3.9 U	4.4 U	4.2 U	3.7 U	4.7 U	4.2 U
2-Chlorotoluene	ug/kg	4.8 U	3.9 U	4.4 U	4.2 U	3.7 U	4.7 U	4.2 U
1,2,4-Trimethylbenzene	ug/kg	4.8 U	3.9 U	4.4 U	4.2 U	3.7 U	4.7 U	4.2 U
1,2-Dibromo-3-chloropropane	ug/kg	4.8 U	3.9 U	4.4 U	4.2 U	3.7 U	4.7 U	4.2 U
1,2,3-Trichloropropane	ug/kg	4.8 U	3.9 U	4.4 U	4.2 U	3.7 U	4.7 U	4.2 U
tert-Butylbenzene	ug/kg	4.8 U	3.9 U	4.4 U	4.2 U	3.7 U	4.7 U	4.2 U
Isopropylbenzene	ug/kg	4.8 U	3.9 U	4.4 U	4.2 U	3.7 U	4.7 U	4.2 U

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