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	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	
8015B	84-15-1	o-Terphenyl	
8015B	92-06-8	m-Terphenyl	
8015B	92-94-4	p-terphenyl	

Appendix A1
Analytical Method, CAS Number and Chemical Name
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Analytical Method	CAS Number	Chemical Name	Alternative Chemical Name
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	
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

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Analytical Method	CAS Number	Chemical Name	Alternative Chemical Name
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	
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	

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Analytical Method	CAS Number	Chemical Name	Alternative Chemical Name
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	
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	

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Analytical Method, CAS Number and Chemical Name
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Analytical Method	CAS Number	Chemical Name	Alternative Chemical Name
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	
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	

Appendix A1
Analytical Method, CAS Number and Chemical Name
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Analytical Method	CAS Number	Chemical Name	Alternative Chemical Name
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	
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-SA5B-SS-0.0-0.5	SL-002-SA5B-SS-0.0-0.5	SL-003-SA5B-SS-0.0-0.5	SL-004-SA5B-SS-0.0-0.5	SL-005-SA5B-SS-0.0-0.5	SL-006-SA5B-SS-0.0-0.5	SL-006-SA5B-SB-4.0-5.0	SL-006-SA5B-SB-5.0-6.0	SL-007-SA5B-SS-0.0-0.5	SL-008-SA5B-SS-0.0-0.5	SL-009-SA5B-SS-0.0-0.5	SL-010-SA5B-SS-0.0-0.5	SL-011-SA5B-SS-0.0-0.5	SL-012-SA5B-SS-0.0-0.5	SL-013-SA5B-SS-0.0-0.5
Sample Date		12/09/2010	12/09/2010	12/09/2010	12/09/2010	12/09/2010	12/09/2010	12/21/2010	12/21/2010	12/09/2010	12/10/2010	12/10/2010	12/09/2010	12/09/2010	12/09/2010	12/09/2010
Lab SDG		DE032	DE032	DE031	DE031	DE031	DE032	DE049	DE049	DE032	DE034	DE034	DE032	DE032	DE032	DE032
Start Depth		0	0	0	0	0	0	4	5	0	0	0	0	0	0	0
End Depth		0.5	0.5	0.5	0.5	0.5	0.5	5	6	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
Nitrate	mg/kg	--	--	--	--	--	--	1.5 J	1.9	--	--	--	--	1.4 J	--	--
Fluoride	mg/kg	1.3	3.2	3.5	1.5	1.9	1.4	3.1	1.2 U	3.4	1.5	0.95 J	1.4	1.1 U	1.5	1 J
Cyanide	mg/kg	--	--	--	--	--	--	0.53 U	0.58 U	--	--	--	--	0.55 U	--	--
Aluminum	mg/kg	12000	10900	9880	11300	9220	10900	12000	9010	13700	8750	11100	12400	12000	9350	12900
Iron	mg/kg	18300	20500	16600	17400	16500	14800	18200	12800	20200	14700	16000	18900	27500	12300	20500
Lead	mg/kg	5.68 J	5.16 J	5.19 J	6.94 J	5.95 J	5.04 J	4.17 J	2.28 J	8.74 J	5.13 J	6.01 J	5.6 J	6.24 J	3.82 J	4.71 J
Lithium	mg/kg	17.2	21.1	21.1	16.8	12.2	12.5	20.2 J	3.8 J	17.7	12.6	16	17.9	16.2	8.5	17.9
Magnesium	mg/kg	4020	4190	3780	4020	3380	3300	4000	2540	4200	4240	3660	4070	3940	2750	4060
Manganese	mg/kg	229	253	230	222	223	298	279	133	238	219	211	227	255	154	265
Mercury	mg/kg	0.1 U	0.007 J	0.0055 J	0.024 J	0.0152 J	0.107 U	0.0036 J	0.12 U	0.0063 J	0.0126 J	0.0138 J	0.0148 J	0.103 U	0.109 U	0.0378 J
Molybdenum	mg/kg	0.84 J	0.483 J	0.41 J	0.798 J	1.9 J	1.82 J	0.311 J	1.16 J	1.5 J	0.815 J	1.08 J	1.22 J	1.33 J	1.74 J	1.01 J
Nickel	mg/kg	12.1 J	9.9 J	8.94	10.4	13.9	15.1 J	6.65	5.9	15.4 J	9.28 J	12.8 J	11.3 J	11.8 J	14.2 J	10.5 J
Potassium	mg/kg	2620	2730	2620 J	2830 J	2240 J	1970	2530	962	2890	2290 J	2450 J	2930	2880	1550	2620
Silver	mg/kg	0.017 J	0.028 J	0.0151 J	0.0192 J	0.0609 J	0.0663 J	0.027 J	0.116 U	0.0704 J	0.0612 J	0.12 J	0.0609 J	0.0409 J	0.0319 J	0.0459 J
Sodium	mg/kg	133	603	231	621	959	748	265	564	567	293	287	268	153	191	663
Strontium	mg/kg	31.4 J	19.1 J	14	30.5	35.7	42.5 J	16.1	72.4	36.4 J	270 J	33.1 J	30.3 J	27.5 J	45.5 J	35.6 J
Thallium	mg/kg	0.338 J	0.285 J	0.229	0.2	0.143	0.177 J	0.197	0.0577 J	0.301 J	0.173 J	0.235 J	0.251 J	0.273 J	0.173 J	0.206 J
Tin	mg/kg	10.4 U	10.4 U	10.8 U	10.3 U	10.5 U	10.7 U	10.8 U	11.5 U	10.3 U	10.2 U	10.5 U	10.9 U	10.6 U	10.9 U	10.4 U
Titanium	mg/kg	1000	1040	1150	1020	732	797	1030	567	979	1140	739	1000	1010	737	932
Antimony	mg/kg	0.207 UJ	0.207 UJ	0.211 UJ	0.211 UJ	0.2 UJ	0.21 UJ	0.209 UJ	0.147 J	0.518 J	0.207 UJ	0.212 UJ	0.218 UJ	1.97 J	0.216 UJ	0.215 UJ
Arsenic	mg/kg	5.67	4.2	4.12	4.75	4.52	5.13	3.28 J	4.36 J	5.53	4.34 J	4.81 J	4.25	4.3	5.09	3.92
Beryllium	mg/kg	0.482	0.426	0.451	0.417	0.281	0.345	0.427	0.212	0.515	0.285	0.458	0.42	0.544	0.302	0.396
Barium	mg/kg	102 J	90.4 J	83.2 J	82.9 J	87.6 J	104 J	74	78.1	116 J	100	105	130 J	95.7 J	73.3 J	81.5 J
Boron	mg/kg	2.69 J	3.31 J	9.73	10.8	11.7	4.2 J	5.69	7	3.64 J	8.55	8.88	3.62 J	2.25 J	2.93 J	3.35 J
Cadmium	mg/kg	0.0885 J	0.0734 J	0.123	0.185	0.268	0.159 J	0.0677 J	0.116 U	0.21 J	0.179 J	0.314 J	1.58 J	0.164 J	0.149 J	0.2 J
Chromium	mg/kg	22.6 J	17.2 J	14.8 J	17 J	25.7 J	33 J	10.1 J	14 J	26.9 J	16 J	20.3 J	21.9 J	21.3 J	30.6 J	17.9 J
Cobalt	mg/kg	5.84 J	4.85 J	4.93 J	5.49 J	5.68 J	5.68 J	3.94 J	3.23 J	6.37 J	5.33 J	6.14 J	5.58 J	5.66 J	5.03 J	4.5 J
Copper	mg/kg	9.81	7.25	6.89 J	12.2 J	14.9 J	9.46	4.77 J	8.47 J	11.8	11.2	9.04	9.87	10.4	7.96	8.44
Vanadium	mg/kg	40.6 J	30.5 J	28.3 J	31.5 J	32.4 J	37.6 J	32.1	31	41.5 J	25.9 J	27.7 J	34.4 J	38.1 J	36.5 J	29.4 J
Zinc	mg/kg	81.4 J	70 J	79.9	62.9	121	55.6 J	50.3	23.6	80.9 J	78.5	72.7	71.6 J	74.4 J	38.7 J	64.9 J
Zirconium	mg/kg	1.9 J	0.968 J	0.981 J	1.85 J	2.53 J	3.51 J	5.38 U	4.25 J	2 J	1.35 J	2.33 J	2.12 J	5.3 U	4.45 J	1.98 J
Calcium	mg/kg	5110	5340	3390	13400	5850	4030	2650 J	30500 J	7720	41500 J	7540 J	5860	5190	4390	8300
Phosphorus	mg/kg	430	433	334	517	476	512	352	803	500	529	428	536	503	502	492
Selenium	mg/kg	0.219 J	0.102 J	0.0987 J	0.654	0.614	0.212 J	0.125 J	0.061 J	0.399 J	0.127 J	0.223 J	0.25 J	0.186 J	0.403 J	0.275 J
Chromium VI	mg/kg	1.1 U	1.5	1.1 U	1.1 U	1 U	1.1 U	0.29 J	0.83 J	0.3 J	1 U	0.74 J	0.35 J	1.1 U	1.1 U	1.1 U
Perchlorate (314.0)	ug/kg	31.9 U	31.6 U	32.6 U	32.2 U	31.5 U	32.5 U	32.6 U	36.3 U	32.2 U	31.1 U	21.3 J	33.1 U	32.8 U	32.8 U	32.5 U
Perchlorate (6850)	ug/kg	5.3 U	--	5.4 U	5.4 U	5.2 U	5.4 U	--	--	--	--	--	5.5 U	--	5.5 U	5.4 U
Percent Moisture	%	6	5.2	8	6.9	4.7	7.7	7.9	17.3	6.8	3.5	6.6	9.3	8.4	8.5	7.8
pH	pH unit	8.09	8.87	8.92	9.04	8.76	8.83	8	11.7	8.61	8.1	8.57	8.61	8.57	8.27	8.66

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-5B

Sample Name		SL-014-SA5B-SS-0.0-0.5	SL-014-SA5B-SB-4.0-5.0	SL-015-SA5B-SB-4.0-5.0	SL-016-SA5B-SB-4.0-5.0	SL-016-SA5B-SB-9.0-10.0	SL-017-SA5B-SS-0.0-0.5	SL-017-SA5B-SB-4.0-5.0	SL-017-SA5B-SB-9.0-10.0	SL-018-SA5B-SS-0.0-0.5	SL-018-SA5B-SB-4.0-5.0	SL-018-SA5B-SB-9.0-10.0	SL-019-SA5B-SB-4.0-5.0	SL-020-SA5B-SS-0.0-0.5	SL-021-SA5B-SB-4.0-5.0	SL-021-SA5B-SB-9.0-10.0
Sample Date		12/09/2010	01/20/2011	01/26/2011	01/26/2011	01/26/2011	12/08/2010	01/27/2011	01/27/2011	12/09/2010	01/26/2011	01/26/2011	01/20/2011	12/09/2010	01/27/2011	01/27/2011
Lab SDG		DE032	DE065	DE069	DE069	DE069	DE033	DE070	DE070	DE032	DE069	DE069	DE065	DE032	DE070	DE070
Start Depth		0	4	4	4	9	0	4	9	0	4	9	4	0	4	9
End Depth		0.5	5	5	5	10	0.5	5	10	0.5	5	10	5	0.5	5	10
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Nitrate	mg/kg	1.3 J	4.6	3.4	4.6	1.1 J	1.9	6.3	2.1	1.3 J	15.5	1.3 J	4.1	1.4 J	4.2	1.6 J
Fluoride	mg/kg	3	3.8	3.2	1.9	0.95 J	1.8	4.5	5.5	4.1	1.1 J	7.7	1.9 J	2	4	2.3
Cyanide	mg/kg	0.54 U	0.57 U	0.58 U	0.55 U	0.55 U	0.53 U	0.58 U	0.54 U	0.54 U	0.57 U	0.56 U	0.55 U	0.53 U	0.54 U	0.55 U
Aluminum	mg/kg	14800	13100	14300	19500	15900	13300	14700	12200	14000	15200	17700	11700	14000	12500	14600
Iron	mg/kg	19100	19700	18800	32900	21500	18500	20400	18700	18700	19500	32800	16200	19000	28400	19200
Lead	mg/kg	5.26 J	5.14 J	5.04	6.29	7.29	7.2 J	4.81 J	4.42 J	6.98 J	8.72	8.97	3.56 J	5.28 J	3.73 J	5.35 J
Lithium	mg/kg	15.8	21.7	19.5	31.1	21.8	17.8	20.4	23.2	14.8	23.4	30.3	16.1	16.4	14.7	22.3
Magnesium	mg/kg	4470	4120	3920	6320	4380	4100	4280	3790	4320	4000	6060	2580	4240	5310	4000
Manganese	mg/kg	228	269	234	448	280	234	266 J	243 J	212	416	234	161	235	317 J	286 J
Mercury	mg/kg	0.0043 J	0.112 UJ	0.0128 J	0.0239 J	0.0117 J	0.0072 J	0.0059 J	0.0072 J	0.108 U	0.0042 J	0.0067 J	0.11 UJ	0.108 U	0.0093 J	0.0085 J
Molybdenum	mg/kg	2.72 J	0.506	0.531	0.564	0.611	1.24 J	0.375	0.415	2.25 J	0.578	0.377	0.439	1.49 J	0.688	0.757
Nickel	mg/kg	19.3 J	8.72 J	9.57	11.9	9.66	13.2 J	7.51 J	6.94 J	20.2 J	11.2	7.95	3.97 J	15.3 J	8.19 J	9.32 J
Potassium	mg/kg	2540	2910 J	2820	3660	2990	2870 J	2780 J	2750 J	2370	3830	3900	2680 J	2550	3690 J	2950 J
Silver	mg/kg	0.0179 J	0.03 J	0.0311 J	0.0324 J	0.0487 J	0.0385 J	0.0227 J	0.0223 J	0.0354 J	0.0305 J	0.0429 J	0.0259 J	0.0247 J	0.0185 J	0.0384 J
Sodium	mg/kg	146	256	365	607	450	105 J	705	668	175	144	352	214	216	387	423
Strontium	mg/kg	38.4 J	22.6	24.5	41.2	30.4	27.7	38.3	23.7	44.5 J	20.5	22.9	11.7	35.3 J	37.4	22.9
Thallium	mg/kg	0.238 J	0.231	0.241	0.296	0.23	0.284 J	0.272	0.219	0.23 J	0.265	0.387	0.212	0.167 J	0.314	0.203
Tin	mg/kg	10.8 U	11.1 U	11.3 U	11.2 U	11 U	10.6 U	11.2 U	10.8 U	10.9 U	11.5 U	10.9 U	11 U	10.9 U	10.9 U	11 U
Titanium	mg/kg	1020	1130	1270	1260	1220	1040	999	1070	932	1270	1490	933	1030	1230	1100
Antimony	mg/kg	0.214 UJ	0.117 J	0.223 UJ	0.229 UJ	0.214 UJ	0.216 UJ	0.224 UJ	0.0799 J	0.214 UJ	0.23 UJ	0.222 UJ	0.213 UJ	0.212 UJ	0.117 J	0.222 UJ
Arsenic	mg/kg	6.05	4.36 J	4.19	5.68	3.97	5.99 J	3.42 J	3.82 J	7.26	4.98	6.23	3.31 J	5.03	8.37 J	4 J
Beryllium	mg/kg	0.529	0.422	0.49	0.589	0.477	0.662 J	0.454	0.443	0.54	0.584	0.85	0.37	0.438	0.327	0.468
Barium	mg/kg	113 J	72.9 J	76.6	127	85.1	109 J	67 J	71.3 J	118 J	99.4	123	59.7 J	101 J	136 J	88 J
Boron	mg/kg	4.15 J	3.94 J	2.99 J	2.22 J	2.82 J	4.05 J	3.29 J	2.43 J	4.53 J	4.02 J	5.45 U	5.48 U	4.16 J	2.22 J	3.27 J
Cadmium	mg/kg	0.169 J	0.106 J	0.175	0.191	0.155	0.117 J	0.177	0.0984 J	0.18 J	0.206	0.0773 J	0.0825 J	0.182 J	0.139	0.18
Chromium	mg/kg	37.6 J	14.5	16 J	22.4 J	16.3 J	24.2 J	12.8 J	12.4 J	38.9 J	15.6 J	14.4 J	6.15	29.3 J	12.7 J	15.3 J
Cobalt	mg/kg	7.16 J	4.73 J	4.59	7.62	4.6	6.51 J	4.13 J	4.59 J	8.09 J	5.16	4.73	2.71 J	6.43 J	6.21 J	4.63 J
Copper	mg/kg	11.5	7.65 J	7.97 J	9.79 J	7.75 J	11 J	6.67 J	6.75 J	12.2	8.48 J	9.31 J	2.85 J	10	11.8 J	8.46 J
Vanadium	mg/kg	47.4 J	28.5 J	31.9	52	35	41.6 J	25.7 J	26.5 J	49.7 J	28.8	29.6	16.5 J	40.5 J	40.3 J	30.1 J
Zinc	mg/kg	55.1 J	61.4	64.8	68.1	381	86.8 J	59.7	52.5	62.4 J	62.3	104	46.6	60.4 J	61.2	57.5
Zirconium	mg/kg	3.33 J	2.39 J	5.64 U	5.6 U	5.52 U	2.61 J	5.6 U	5.38 U	3.77 J	5.74 U	5.45 U	5.48 U	2.77 J	5.43 U	5.49 U
Calcium	mg/kg	4660	6400	5530	7290	8010	4940 J	9230	9320	4920	2750	3570	1530	5330	6810	5360
Phosphorus	mg/kg	522	407	366	746	392	445	1460 J	332 J	545	526	578	286	499	1480 J	391 J
Selenium	mg/kg	0.263 J	0.122 J	0.283 J	0.491	0.138 J	0.19 J	0.128 J	0.0971 J	0.218 J	0.176 J	0.226 J	0.142 J	0.322 J	2.61	0.127 J
Chromium VI	mg/kg	1.1 U	0.38 J	0.32 J	0.63 J	0.29 J	1.1 U	0.35 J	0.58 J	1.1 U	0.32 J	1.1 U	1.1 U	1.1 U	1.1 U	0.48 J
Perchlorate (314.0)	ug/kg	33.3 U	34 U	34.8 U	34.3 U	33.1 U	32.8 U	34.6 U	33.3 U	33 U	34.8 U	33.7 U	33.2 U	32.8 U	33.6 U	33.6 U
Perchlorate (6850)	ug/kg	--	--	--	--	--	5.5 U	--	--	5.5 U	--	5.6 U	--	--	--	--
Percent Moisture	%	10	11.7	13.9	12.5	9.4	8.5	13.3	9.8	9.1	13.8	10.9	9.6	8.4	10.6	10.7
pH	pH unit	8.71	8.18	8.43	8.77	10.4	8.46	8.68	9.55	8.13	7.66	6.48	6.96	8.69	8.24	10.5

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-5B

Sample Name		SL-022-SA5B-SS-0.0-0.5	SL-022-SA5B-SB-2.0-3.0	SL-024-SA5B-SS-0.0-0.5	SL-024-SA5B-SB-4.0-5.0	SL-024-SA5B-SB-9.0-10.0	SL-025-SA5B-SB-4.0-5.0	SL-025-SA5B-SB-9.0-10.0	SL-026-SA5B-SS-0.0-0.5	SL-026-SA5B-SB-4.0-5.0	SL-026-SA5B-SB-9.0-10	SL-027-SA5B-SS-0.0-0.5	SL-027-SA5B-SB-4.0-5.0	SL-027-SA5B-SB-8.0-9.0	SL-029-SA5B-SS-0.0-0.5	SL-029-SA5B-SB-4.0-5.0
Sample Date		12/08/2010	01/19/2011	12/22/2010	01/19/2011	01/19/2011	01/19/2011	01/19/2011	12/08/2010	12/17/2010	12/17/2010	01/05/2011	12/15/2010	12/15/2010	12/08/2010	01/20/2011
Lab SDG		DE032	DE064	DE051	DE064	DE064	DE064	DE064	DE031	DE045	DE045	DE053	DE041	DE041	DE033	DE065
Start Depth		0	2	0	4	9	4	9	0	4	9	0	4	8	0	4
End Depth		0.5	3	0.5	5	10	5	10	0.5	5	10	0.5	5	9	0.5	5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Nitrate	mg/kg	1.8	1.6	--	--	--	--	--	--	1.1 J	3.5	--	1.8 U	0.95 J	--	4.4
Fluoride	mg/kg	2.9	2.8 J	4.4 J	6.4 J	5.5 J	1.9 J	4.9 J	4.8	6.3 J	4.2 J	3.5	2.9 J	4.3 J	5.2 J	1.4 J
Cyanide	mg/kg	0.54 U	0.51 U	--	--	--	--	--	--	0.54 U	0.53 U	--	0.61 U	0.54 U	--	0.54 U
Aluminum	mg/kg	16100	10800	16800	15900	16600	15900	19700	13100	22700	18900	17900	15800	18100	12200	15200
Iron	mg/kg	21400	18700	20000 J	22300	22700	18700	23700	18400	25600	20300	19000	22800	19400	17100	26400
Lead	mg/kg	8.15 J	3.45 J	5.97	5.99 J	4.77 J	5.66 J	5.88 J	5.29 J	10.5 J	8.34 J	6.81 J	7.1 J	6.42 J	6.49 J	5.39 J
Lithium	mg/kg	20.8	29.6	19.4	21	23.4	20.2	22.6	18.7	21.9	21.5	18.5	28.4	27.2	15.3	20.5
Magnesium	mg/kg	4440	4900	4210 J	4370	4420	4040	4450	3970	6390	4250	4030	5380	3740	3790	4410
Manganese	mg/kg	261	266	266	259	244	257	258	248	425	268	303 J	334	380	215	270
Mercury	mg/kg	0.107 U	0.0964 U	0.0108 J	0.0037 J	0.037 J	0.0053 J	0.0053 J	0.0067 J	0.109 U	0.107 U	0.114 U	0.117 U	0.0224 J	0.0041 J	0.114 UJ
Molybdenum	mg/kg	0.664 J	0.286	0.579	0.321	0.536	0.474	0.587	0.55 J	0.482 J	0.407 J	0.766 J	0.566 J	1.17 J	1.84 J	0.377
Nickel	mg/kg	12.8 J	8.19	11.7	9.35	9.75	10.2	12.2	8.89	21.8 J	14.6 J	10.9	14.3 J	8.79 J	13.3 J	8.76 J
Potassium	mg/kg	3000	3010 J	2720 J	1590 J	2620 J	2900 J	2680 J	2690 J	2370	1870	2590 J	3930 J	2100 J	2600 J	2930 J
Silver	mg/kg	0.0183 J	0.101 U	0.0342 J	0.0398 J	0.0241 J	0.0302 J	0.0362 J	0.0204 J	0.0298 J	0.0313 J	0.0351 J	0.015 J	0.0296 J	0.0278 J	0.0368 J
Sodium	mg/kg	167	466	104 J	296	181	182	216	227	266	240	128	129	121	141	532
Strontium	mg/kg	24.9 J	11.5	23.2 J	21.8	18.7	22	23.7	22.1	29.2	20.6	21.1	21.6	12.5	28.9	31.7
Thallium	mg/kg	0.351 J	0.223	0.277	0.266	0.27	0.265	0.307	0.232	0.374	0.302	0.279	0.401 J	0.312 J	0.25 J	0.231
Tin	mg/kg	10.7 U	9.97 U	2.26 J	11 U	10.7 U	10.7 U	10.8 U	10.6 U	11.1 U	10.6 U	11.4 U	11.8 U	10.6 U	10.6 U	11.3 U
Titanium	mg/kg	1260	1110	1080	1230	1150	1230	1330	1130	1280	1110	1370	1350	1170	964	1120
Antimony	mg/kg	0.217 UJ	0.201 UJ	0.251 UJ	0.225 UJ	0.216 UJ	0.21 UJ	0.214 UJ	0.212 UJ	0.137 J	0.0835 J	0.285 UJ	0.114 J	0.0942 J	0.208 UJ	0.0814 J
Arsenic	mg/kg	5.76	4.67	5.86 J	5.75	4.31	3.95	5.13	4.01	8.38 J	7.37 J	5.82 J	7.75 J	7.43 J	10 J	4.39 J
Beryllium	mg/kg	0.593	0.367	0.586	0.69	0.56	0.526	0.628	0.452	0.864	0.808	0.733 J	0.7	0.815	0.429 J	0.475
Barium	mg/kg	110 J	96.1	94.8 J	64.4	91	92.2	115	85.6 J	142	103	119	123 J	89.6 J	90.5 J	85.1 J
Boron	mg/kg	2.2 J	4.98 U	4.85 J	5.52 U	5.35 U	5.35 U	5.39 U	11.8	6.96	4.31 J	5.71 U	5.92 U	5.28 U	3.84 J	8.15
Cadmium	mg/kg	0.139 J	0.139	0.158	0.113 U	0.115	0.194	0.196	0.0846 J	0.211 J	0.0665 J	0.154	0.18 J	0.0432 J	0.134 J	0.166
Chromium	mg/kg	23.4 J	13.8	19.8 J	19.2	16.1	16	19.9	14.6 J	39.6 J	27.9 J	19.1 J	24.1 J	14.9 J	26.1 J	14.8
Cobalt	mg/kg	6.69 J	4.65	6.01 J	6.57	5.4	6.42	6.67	4.75 J	9.07 J	6.61 J	5.97 J	7.7	6.34	5.77 J	4.75 J
Copper	mg/kg	9.28	5.1	7.76 J	7.1	6.9	8.36	9.13	7.52 J	15 J	10.8 J	8.66 J	9.69	5.44	11.4 J	7.66 J
Vanadium	mg/kg	43.4 J	28.4	35.8 J	35.2	32.2	30.5	38.4	29 J	72.6 J	49 J	49.6 J	48.2 J	36.2 J	40.7 J	28.1 J
Zinc	mg/kg	84.2 J	52.6	66	49.4	55.7	48.3	61.5	50.3	84.7	64.4	47.7	96.9 J	68.1 J	55.7 J	56.9
Zirconium	mg/kg	1.76 J	4.98 U	2.14 J	5.52 U	5.35 U	5.35 U	5.39 U	1.75 J	5.01 J	2.87 J	2.27 J	3.41 J	1.83 J	2.75 J	5.67 U
Calcium	mg/kg	5280	3980	4630 J	2810	2990	2400	2790	3600	11100	2330	2290	9940	2180	4400 J	9140
Phosphorus	mg/kg	420	318	362 J	134	327	336	359	367	320	157	277 J	363	174	423	427
Selenium	mg/kg	0.161 J	0.0683 J	0.501 U	0.0569 J	0.0915 J	0.105 J	0.0956 J	0.115 J	0.115 J	0.09 J	0.177 J	0.0695 J	0.203 J	0.891 J	0.0706 J
Chromium VI	mg/kg	1.1 U	1 U	0.25 J	0.25 J	0.3 J	0.44 J	0.49 J	0.25 J	0.4 J	0.32 J	0.49 J	1.2 U	1.1 U	1.1 U	0.3 J
Perchlorate (314.0)	ug/kg	32.8 U	30.8 U	37.6 U	34.1 U	33 U	32.8 U	33.3 U	32.1 U	33.7 U	32.8 U	35 U	35.9 U	32.9 U	32.8 U	34.4 U
Perchlorate (6850)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Percent Moisture	%	8.6	2.6	20.2	12.1	9.2	8.4	10	6.6	11.1	8.4	14.2	16.4	8.9	8.6	12.7
pH	pH unit	8.81	9.18	8.24	8.3	8.36	5.93	8.04	4.58	8.09	7.78	6.51	7.07	7.71	8.4	9.54

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-5B

Sample Name		SL-029-SA5B-SB-9.0-10.0	SL-030-SA5B-SB-4.0-5.0	SL-030-SA5B-SB-9.0-10.0	SL-031-SA5B-SS-0.0-0.5	SL-031-SA5B-SB-4.0-5.0	SL-031-SA5B-SB-9.0-10.0	SL-032-SA5B-SS-0.0-0.5	SL-032-SA5B-SB-4.0-5.0	SL-032-SA5B-SB-9.0-10.0	SL-032-SA5B-SB-14.0-15.0	SL-033-SA5B-SB-4.0-5.0	SL-033-SA5B-SB-9.0-10.0	SL-033-SA5B-SB-14.0-15.0	SL-034-SA5B-SS-0.0-0.5	SL-034-SA5B-SB-4.0-5.0
Sample Date		01/20/2011	01/20/2011	01/20/2011	12/08/2010	01/19/2011	01/19/2011	12/08/2010	01/24/2011	01/24/2011	01/24/2011	01/24/2011	01/24/2011	01/24/2011	12/08/2010	01/20/2011
Lab SDG		DE065	DE065	DE065	DE032	DE064	DE064	DE031	DE067	DE067	DE067	DE067	DE067	DE067	DE033	DE065
Start Depth		9	4	9	0	4	9	0	4	9	14	4	9	14	0	4
End Depth		10	5	10	0.5	5	10	0.5	5	10	15	5	10	15	0.5	5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Nitrate	mg/kg	1.7	4	1.8	--	--	--	--	13.1	1.6 J	1.8	2.4	1.6 J	1.5 J	--	2.5
Fluoride	mg/kg	1.4 J	1.9	2.2	2.5	5.8	3.6	5.6	2.7	3.7	4.1	1.9	1.7	5.7	2 J	5.8
Cyanide	mg/kg	0.54 U	0.58 U	0.54 U	--	--	--	--	0.55 U	0.51 U	0.55 U	0.53 U	0.56 U	0.55 U	--	0.57 U
Aluminum	mg/kg	14800	29600	25100	16500	15200	17400	11500	12900	15600	15900	5930	13800	12200	12100	17400
Iron	mg/kg	20800	29200	29800	23000	17300	21600	17200	16700 J	18300 J	17900 J	7920 J	17000 J	16500 J	18000	22200
Lead	mg/kg	6.61 J	8.64 J	9.29 J	8.73 J	4.74	5.34	4.9 J	9.81 J	5.52 J	4.81 J	2.96 J	5.05 J	5.41 J	7.21 J	5.42 J
Lithium	mg/kg	20.1	24.7	23.8	23.9	14.7	27.4	18.3	18.6	21.2	17.7	6.7	20.9	20.7	17.7	21.2
Magnesium	mg/kg	4320	6510	6100	4660	3380	4600	3510	3960	3650	3000	1620	3440	3350	3750	4710
Manganese	mg/kg	277	406	374	304	425 J	272 J	218	239	251	236	118	240	237	232	283
Mercury	mg/kg	0.107 UJ	0.11 UJ	0.883 J	0.104 U	0.114 U	0.107 U	0.0123 J	0.0147 J	0.106 U	0.0044 J	0.109 U	0.105 U	0.106 U	0.108 U	0.112 UJ
Molybdenum	mg/kg	1.6	0.843	0.506	1.06 J	0.576	0.344	0.551 J	2.58 J	0.874 J	0.598 J	0.471 J	0.478 J	0.489 J	1.1 J	0.423
Nickel	mg/kg	11.6 J	15.8 J	15 J	15.7 J	8.49	9.1	8.51	18 J	13.3 J	10.9 J	6.26 J	11 J	10.8 J	13.7 J	9.13 J
Potassium	mg/kg	2880 J	3640 J	4220 J	3080	2520	3400	2490 J	2800 J	3160 J	2400 J	1140 J	3100 J	2920 J	3030 J	3250 J
Silver	mg/kg	0.0354 J	0.0446 J	0.0347 J	0.0351 J	0.0232 J	0.0256 J	0.0283 J	0.0318 J	0.0291 J	0.0443 J	0.11 U	0.0381 J	0.037 J	0.0315 J	0.0341 J
Sodium	mg/kg	406	515	358	170	241	134	195	356	146	117	141	117	108	95.1 J	454
Strontium	mg/kg	28.1	37	38.6	26.6 J	24	16.7	18.9	27.5	17.5	18	21	16.9	12.7	23.6	29
Thallium	mg/kg	0.276	0.325	0.358	0.339 J	0.244	0.251	0.202	0.324 J	0.249 J	0.288 J	0.151 J	0.247 J	0.262 J	0.314 J	0.222
Tin	mg/kg	10.9 U	11.4 U	11.5 U	10.7 U	11.3 U	10.7 U	10.8 U	11.1 U	10.9 U	11 U	10.8 U	11 U	10.7 U	10.4 U	11.1 U
Titanium	mg/kg	1080	1370	1320	1250	1100	1160	1100	1000 J	1140 J	1050 J	531 J	1040 J	1010 J	1040	1220
Antimony	mg/kg	0.158 J	0.214 J	0.181 J	0.213 UJ	0.222 UJ	0.213 UJ	0.208 UJ	3.13 J	0.22 UJ	0.223 UJ	0.219 UJ	0.221 UJ	0.214 UJ	0.212 UJ	0.101 J
Arsenic	mg/kg	5.16 J	6.51 J	5.67 J	6.86	3.77	4.27	3.93	70.5 J	3.45 J	4.33 J	2.16 J	3.77 J	4.09 J	5.04 J	3.96 J
Beryllium	mg/kg	0.551	0.711	0.687	0.643	0.501	0.575	0.434	0.581	0.523	0.576	0.205	0.504	0.539	0.508 J	0.44
Barium	mg/kg	99.1 J	121 J	117 J	120 J	96	81.1	72.7 J	88.5	100	93.4	88.6	100	90.4	113 J	84.8 J
Boron	mg/kg	3.04 J	5.6 J	7.14	1.82 J	1.37 J	1.02 J	10.1	5.74	3.08 J	2.88 J	1.51 J	3.71 J	1.6 J	3.87 J	4.96 J
Cadmium	mg/kg	0.195	0.201	0.38	0.146 J	0.118	0.124	0.0898 J	0.3	0.146	0.107 J	0.0803 J	0.128	0.0708 J	0.177 J	0.16
Chromium	mg/kg	22.8	30.1	27.2	28.7 J	15.1	14.8	14.4 J	15.3 J	15.3 J	14.2 J	10.7 J	15 J	14.6 J	23 J	15.1
Cobalt	mg/kg	5.97 J	7.64 J	8.3 J	9.15 J	4.77	5.19	4.51 J	6.53 J	5.09 J	5.46 J	3.56 J	5.38 J	5.17 J	6.55 J	4.88 J
Copper	mg/kg	10.5 J	14.3 J	14.3 J	11.8	11.9	8.61	6.35 J	8.16	9.26	8.5	6.28	8.33	8.51	10.7 J	8.84 J
Vanadium	mg/kg	39 J	54.1 J	50.3 J	50.3 J	28.2	30.1	27.4 J	52 J	28.9 J	27.2 J	20 J	28.4 J	28.4 J	38.9 J	28.8 J
Zinc	mg/kg	58.9	62.2	62.5	80.4 J	40.2	54.2	53.3	66.5	51.4	47.2	52.1	54.1	55	72.8 J	69.3
Zirconium	mg/kg	5.47 U	5.14 J	4.05 J	1.49 J	3.79 J	3.6 J	1.33 J	5.56 U	5.44 U	5.48 U	5.42 U	5.48 U	5.35 U	1.98 J	3.32 J
Calcium	mg/kg	7400	12000	11500	4280	2510	2490	3490	10400 J	2080 J	1590 J	7460 J	2130 J	2250 J	3900 J	9100
Phosphorus	mg/kg	421	304	369	388	228 J	347 J	381	328 J	324 J	278 J	600 J	343 J	323 J	445	363
Selenium	mg/kg	0.0952 J	0.185 J	0.136 J	0.183 J	0.113 J	0.141 J	0.133 J	0.474	0.107 J	0.0812 J	0.0439 J	0.112 J	0.115 J	0.229 J	0.0825 J
Chromium VI	mg/kg	0.46 J	0.29 J	0.4 J	1.1 U	0.35 J	0.54 J	1.1	0.88 J	0.6 J	0.33 J	0.48 J	0.45 J	0.35 J	1.1 U	0.31 J
Perchlorate (314.0)	ug/kg	33.8 U	35.2 U	34.4 U	32.6 U	34.6 U	32.3 U	32.5 U	33.3 U	33.3 U	33.9 U	33.2 U	33.6 U	33.4 U	32.8 U	34.1 U
Perchlorate (6850)	ug/kg	--	5.9 U	--	--	--	--	--	--	--	--	5.5 U	--	--	--	--
Percent Moisture	%	11.3	14.7	12.7	8.1	13.4	7.1	7.7	10	9.9	11.4	9.6	10.6	10.1	8.5	12
pH	pH unit	9.85	8.38	8.51	7.11	6.94	7.4	8.12	9.52	7.71	7.55	7.57	7.7	7.72	7.95	9.77

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-5B

Sample Name		SL-034-SA5B-SB-9.0-10.0	SL-035-SA5B-SS-0.0-0.5	SL-035-SA5B-SB-4.0-5.0	SL-035-SA5B-SB-7.0-8.0	SL-036-SA5B-SS-0.0-0.5	SL-036-SA5B-SB-4.0-5.0	SL-037-SA5B-SB-3.5-4.5	SL-038-SA5B-SS-0.0-0.5	SL-039-SA5B-SS-0.0-0.5	SL-039-SA5B-SB-4.0-5.0	SL-039-SA5B-SB-9.0-10.0	SL-040-SA5B-SB-1.5-2.5	SL-040-SA5B-SB-9.0-10.0	SL-041-SA5B-SB-1.5-2.5	SL-041-SA5B-SB-8.0-9.0
Sample Date		01/20/2011	12/08/2010	01/20/2011	01/20/2011	12/08/2010	01/20/2011	01/20/2011	12/08/2010	12/08/2010	01/17/2011	01/17/2011	12/16/2010	12/16/2010	12/16/2010	12/16/2010
Lab SDG		DE065	DE033	DE065	DE065	DE033	DE065	DE065	DE031	DE031	DE062	DE062	DE043	DE043	DE043	DE043
Start Depth		9	0	4	7	0	4	3.5	0	0	4	9	1.5	9	1.5	8
End Depth		10	0.5	5	8	0.5	5	4.5	0.5	0.5	5	10	2.5	10	2.5	9
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Nitrate	mg/kg	1.8	--	2.8	1.5 J	--	--	2	--	--	--	--	1.3 J	6.6	1.2 J	0.98 J
Fluoride	mg/kg	1.3	3.4 J	1.8	1.2	1.1 UJ	5.4 J	3.3 J	1.9	5.6	3.8 J	3.7 J	4.4	4.2	2.4	2.8
Cyanide	mg/kg	0.54 U	--	0.54 U	0.53 U	--	--	0.56 U	--	--	--	--	0.56 U	0.56 U	0.57 U	0.54 U
Aluminum	mg/kg	22100	11600	14200	12800	10900	13500	13300	14000	12600	17600	33900	23000	26600	31100	22200
Iron	mg/kg	27500	14800	19700	18200	14200	21400	18700	18500	18000	19900	36400	23100	28700	28400	22000
Lead	mg/kg	7.06 J	5.89 J	5.86 J	4.84 J	6.36 J	5.69 J	4.5 J	5.12 J	4.59 J	5.98 J	10.4 J	9.7 J	15.9 J	16.3 J	9.33 J
Lithium	mg/kg	22.4	12.3	21.2	20.6	13.4	24.8	22.5	17.3	19.4	17.4	28.1	23.9	26.8	24.6	22.2
Magnesium	mg/kg	5220	3570	4030	3700	3150	4330	3630	3980	3860	3790	7610	4840	5910	7490	5090
Manganese	mg/kg	339	182	262	235	186	247	238	285	254	223	446	280	399	333	264
Mercury	mg/kg	0.106 UJ	0.106 U	0.109 UJ	0.102 UJ	0.104 U	0.0102 J	0.107 UJ	0.0153 J	0.0082 J	0.106 U	0.0047 J	0.007 J	0.0258 J	0.119 U	0.104 U
Molybdenum	mg/kg	0.463	1.83 J	0.415	0.393	1.16 J	0.447	0.523	0.762 J	0.292 J	0.446	0.568	0.957 J	0.992 J	0.736 J	0.907 J
Nickel	mg/kg	9.43 J	17.7 J	7.78 J	6.49 J	12.4 J	8.5 J	7.62 J	10.7	7.17	10.2	23.6	17.8 J	25.4 J	23.7 J	16.1 J
Potassium	mg/kg	3270 J	2240 J	2960 J	2900 J	2300 J	3450 J	2670 J	2550 J	2680 J	2150 J	4120 J	2960	3550	4860	3370
Silver	mg/kg	0.0277 J	0.0195 J	0.0213 J	0.0224 J	0.0308 J	0.0396 J	0.0273 J	0.0258 J	0.0182 J	0.0296 J	0.0529 J	0.0573 J	0.0811 J	0.0645 J	0.0627 J
Sodium	mg/kg	448	105 J	414	995	83.6 J	1370	966	120	255	184	235	156	207	208	162
Strontium	mg/kg	34.4	35.4	22	17.2	21.4	17.7	17	26.2	19.8	20.3	38.2	24.3	28.2	36.6	29.9
Thallium	mg/kg	0.224	0.262 J	0.24	0.255	0.315 J	0.244	0.226	0.197	0.202	0.247	0.333	0.459 J	0.559 J	0.51 J	0.413 J
Tin	mg/kg	10.9 U	10.9 U	10.8 U	10.5 U	10.8 U	10.8 U	10.9 U	11 U	10.6 U	11 U	11.8 U	11.1 U	11.6 U	11.7 U	10.9 U
Titanium	mg/kg	1260	934	1100	1040	1020	1230	972	1130	1150	1310	1530	1320	1380	1440	1220
Antimony	mg/kg	0.106 J	0.213 UJ	0.0937 J	0.0893 J	0.211 UJ	0.11 J	0.091 J	0.211 UJ	0.219 UJ	0.233 J	0.344 J	0.221 UJ	0.229 UJ	0.386 J	0.219 UJ
Arsenic	mg/kg	4.25 J	5.94 J	4.26 J	3.66 J	5.16 J	4.33 J	3.68 J	4.74	3.58	5.5	6.95	7.38 J	12.9 J	10.3 J	7.71 J
Beryllium	mg/kg	0.476	0.456 J	0.425	0.424	0.501 J	0.45	0.382	0.451	0.432	0.648	0.878	0.957 J	1.12 J	1.1 J	0.809 J
Barium	mg/kg	96.5 J	106 J	75.1 J	66.7 J	107 J	86.7 J	77.1 J	84.2 J	76.3 J	86.8	146	163 J	203 J	175 J	136 J
Boron	mg/kg	4.9 J	3.94 J	2.51 J	3.22 J	3.38 J	2.89 J	3.28 J	12.1	11.3	5.5 U	5.91 U	2.92 J	5.42 J	9.5	5.7
Cadmium	mg/kg	0.172	0.164 J	0.152	0.123	0.163 J	0.142	1.12	0.142	0.074 J	0.0603 J	0.348	0.275 J	0.394 J	0.522 J	0.215 J
Chromium	mg/kg	16.6	34 J	14.4	10.9	21.7 J	13.6	12.3	19.6 J	12.3 J	19.1 J	36 J	30.2 J	49.3 J	48.5 J	27.2 J
Cobalt	mg/kg	5.25 J	7.16 J	4.66 J	3.8 J	6.39 J	5.17 J	4.34 J	5.2 J	4.3 J	5.56	9.11	8.67 J	12.5 J	11.7 J	8.4 J
Copper	mg/kg	9.06 J	10.8 J	7.96 J	5.87 J	9.76 J	7.41 J	7.38 J	7.84 J	6.19 J	7.61	18.8	12.6 J	18.8 J	22.5 J	10.9 J
Vanadium	mg/kg	33.4 J	44.2 J	28.3 J	22.8 J	38.5 J	30 J	26.3 J	32.7 J	25.9 J	35.8 J	63.7 J	59.8 J	91.3 J	87.5 J	57.6 J
Zinc	mg/kg	59.5	59.3 J	56.3	48.5	71.2 J	64.7	62.7	55.1	48.4	41.8	69.5	89.8	112	120	89.4
Zirconium	mg/kg	3.63 J	4.03 J	2.36 J	5.25 U	2.09 J	5.42 U	5.44 U	2.08 J	1.11 J	5.5 U	5.52 J	2.06 J	3.06 J	4.89 J	3.14 J
Calcium	mg/kg	9750	4030 J	6950	4310	3500 J	3200	3310	4290	3830	1950	17000	9150	7010	15200	9040
Phosphorus	mg/kg	363	480	335	333	324	391	291	356	312	184 J	390 J	376	325	470	359
Selenium	mg/kg	0.0967 J	0.174 J	0.16 J	0.119 J	0.128 J	0.0879 J	0.0783 J	0.0991 J	0.0987 J	0.0793 J	0.142 J	0.19 J	0.173 J	0.288 J	0.161 J
Chromium VI	mg/kg	0.46 J	0.36 J	0.33 J	1.2	0.33 J	0.3 J	1.1 U	1.1 U	1.1 U	1.1 U	1.2 U	0.5 J	0.55 J	0.5 J	0.58 J
Perchlorate (314.0)	ug/kg	33.1 U	33.3 U	33 U	32.4 U	33.2 U	33.2 U	33.6 U	32.9 U	32.8 U	33.3 U	35.5 U	33.5 U	35.4 U	35.7 U	33.2 U
Perchlorate (6850)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Percent Moisture	%	9.4	9.8	9.1	7.5	9.6	9.6	10.8	8.8	8.5	10	15.4	10.4	15.3	16	9.7
pH	pH unit	8.46	7.93	8.76	8.99	7.87	8.33	9.75	7.65	8.38	7.49	8.17	7.62	7.89	7.61	7.73

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-5B

Sample Name		SL-042-SA5B-SB-2.5-3.5	SL-042-SA5B-SB-8.0-9.0	SL-043-SA5B-SB-2.5-3.5	SL-044-SA5B-SB-4.0-5.0	SL-044-SA5B-SB-7.0-8.0	SL-045-SA5B-SB-3.0-4.0	SL-046-SA5B-SB-4.0-5.0	SL-046-SA5B-SB-9.0-10.0	SL-047-SA5B-SB-4.0-5.0	SL-048-SA5B-SS-0.0-0.5	SL-048-SA5B-SB-4.0-5.0	SL-048-SA5B-SB-9.0-10.0	SL-049-SA5B-SS-0.0-0.5	SL-049-SA5B-SB-4.0-5.0	SL-049-SA5B-SB-9.0-10.0
Sample Date		12/16/2010	12/16/2010	12/16/2010	12/20/2010	12/20/2010	12/20/2010	12/21/2010	12/21/2010	12/21/2010	12/10/2010	01/19/2011	01/19/2011	02/11/2011	01/19/2011	01/19/2011
Lab SDG		DE043	DE043	DE043	DE048	DE048	DE048	DE049	DE049	DE049	DE034	DE064	DE064	DE081	DE064	DE064
Start Depth		2.5	8	2.5	4	7	3	4	9	4	0	4	9	0	4	9
End Depth		3.5	9	3.5	5	8	4	5	10	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
Nitrate	mg/kg	1.2 J	1.2 J	1 J	1.6 J	1.3 J	6	--	--	--	--	--	--	--	1.4 J	1.4 J
Fluoride	mg/kg	2.4	3.5	2	4.4 J	2.4 J	1.5 J	3.1 J	3.1 J	2.5 J	0.98 J	5.1 J	2.4 J	1 U	4.2 J	2.9
Cyanide	mg/kg	0.53 U	0.54 U	0.55 U	0.56 U	0.56 U	0.54 U	--	--	--	--	--	--	--	0.52 U	0.51 U
Aluminum	mg/kg	18300	16600	15500	20300	12100	14400	13700	13600	12400	15300	9300	14600	2770	15700	3240
Iron	mg/kg	18400	18800	19000	19100	14300	19100	19900	15700	19000	27600	15900	19600	4530	20700	5070
Lead	mg/kg	7.99 J	8.07 J	7.47 J	6.38 J	6.07 J	7.89 J	4.86 J	8.4 J	7.4 J	7.82 J	4.01 J	5.59 J	1.71 J	6.09	1.99
Lithium	mg/kg	22.2	19.3	25.8	20.1	15.8	27.3	27.1 J	16.1 J	23.8 J	24.7	17	23	3.3	20.2	2.8
Magnesium	mg/kg	3920	3550	4630	3740	2850	5090	5110	3090	4350	5080	2800	3740	800 J	4220	973
Manganese	mg/kg	239	214	277	267	108	287	260	325	277	322	218	311	85.8	260 J	92.5 J
Mercury	mg/kg	0.105 U	0.107 U	0.109 U	0.111 U	0.11 U	0.11 U	0.0067 J	0.105 U	0.0043 J	0.112 U	0.105 U	0.0124 J	0.0995 U	0.102 U	0.0983 U
Molybdenum	mg/kg	0.768 J	0.959 J	0.815 J	0.735 J	0.556 J	0.683 J	0.39 J	0.793 J	0.649 J	0.327 J	0.333	0.609	0.634	0.257	0.618
Nickel	mg/kg	12.5 J	12.2 J	14.1 J	12.3 J	9.11 J	15.1 J	9.75	12.5	11.7	10.9 J	5.73	9.88	8.03	6.85	5.31
Potassium	mg/kg	2460	1790	3020	1490	967	3020	3360	3010	2730	4830 J	2440 J	3720 J	452	2680	542
Silver	mg/kg	0.0513 J	0.0731 J	0.0309 J	0.0622 J	0.0349 J	0.0315 J	0.0186 J	0.0387 J	0.0405 J	0.023 J	0.0137 J	0.0289 J	0.101 U	0.0235 J	0.101 U
Sodium	mg/kg	97.1 J	268	100 J	109 J	101 J	94.9 J	121	102 J	115	80.4 J	181	269	56.5 J	80.5 J	77.4 J
Strontium	mg/kg	17	17.7	14.5	20.8	14.8	14.2	13.9	18.9	13.2	13.7 J	10.4	22.1	18.4 J	21.3	16.5
Thallium	mg/kg	0.352 J	0.372 J	0.362 J	0.3 J	0.264 J	0.426 J	0.296	0.278	0.324	0.395 J	0.234	0.275	0.0618 J	0.187	0.0449 J
Tin	mg/kg	10.8 U	11 U	10.6 U	11.1 U	11 U	10.8 U	10.5 U	11.1 U	11.1 U	10.9 U	11.1 U	10.4 U	10.2 U	10.9 U	9.95 U
Titanium	mg/kg	1130	1030	1200	1160	957	1150	1250	1080	1130	1120	944	1140	172 J	981	245
Antimony	mg/kg	0.219 UJ	0.223 UJ	0.217 UJ	0.222 UJ	0.219 UJ	0.219 UJ	0.0861 J	0.105 J	0.213 UJ	0.225 UJ	0.223 UJ	0.209 UJ	0.112 J	0.214 UJ	0.203 UJ
Arsenic	mg/kg	6.16 J	7.36 J	6.72 J	5.26 J	4.8 J	6.6 J	3.99 J	4.6 J	10.5 J	5.75 J	3.89	3.84	3.86	3.04	2.55
Beryllium	mg/kg	0.705 J	0.836 J	0.647 J	0.851 J	0.526 J	0.655 J	0.51	0.632	0.778	0.602	0.405	0.516	0.156	0.395	0.14
Barium	mg/kg	112 J	96.4 J	115 J	128 J	94.8 J	132 J	79.8	120	116	118	59.6	111	20.6 J	74.7	23.6
Boron	mg/kg	2.43 J	1.91 J	2.17 J	5.55 UJ	3.96 J	5.45	3.08 J	6.06	5.83	6.83	5.57 U	5.19 U	1.49 J	2.21 J	4.98 U
Cadmium	mg/kg	0.0973 J	0.128 J	0.149 J	0.0646 J	0.0689 J	0.179 J	0.0841 J	0.256	0.141	0.203 J	0.0796 J	0.214	0.0873 J	0.12	0.0667 J
Chromium	mg/kg	23.1 J	22.9 J	23.6 J	20.1 J	19 J	24.6 J	15.1 J	18 J	18.4 J	16.6 J	9.56	14.7	14.1 J	11.4	10.1
Cobalt	mg/kg	6.07 J	6.62 J	7.01 J	6.82 J	4.1 J	7.75 J	4.73 J	5.88 J	6.84 J	5.82 J	3.45	5.2	2.75 J	4.69	2.09
Copper	mg/kg	8.44 J	9.7 J	9.04 J	6.61 J	5.03 J	9.82 J	7.35 J	9.77 J	9.18 J	8.26	4.22	7.4	3.31 J	4.4	2.84
Vanadium	mg/kg	46.7 J	51.7 J	47.3 J	42 J	38.8 J	51.3 J	45.6	39.5	38.7	26.7 J	21.8	29.8	16.2 J	23.7	12.4
Zinc	mg/kg	74.5	77.1	85.3	52.1	46.5	98.5	54.2	66.2	76.8	84.3	52.1	70	11.8	50.9	14.6
Zirconium	mg/kg	1.86 J	1.23 J	1.15 J	2.04 J	1.09 J	5.42 U	1.15 J	2.06 J	5.53 U	5.47 U	5.57 U	5.19 U	5.09 U	5.45 U	4.98 U
Calcium	mg/kg	2080	1880	2890	1930	1330	2850	3860 J	2000 J	2500 J	2620 J	1690	2820	9610 J	5240	8510
Phosphorus	mg/kg	249	141	380	128 J	67.9	401	393	351	362	350	266	337	452 J	271 J	314 J
Selenium	mg/kg	0.102 J	0.222 J	0.134 J	0.0786 J	0.0465 J	0.117 J	0.173 J	0.167 J	0.187 J	0.0943 J	0.0887 J	0.131 J	0.154 J	0.0584 J	0.101 J
Chromium VI	mg/kg	0.49 J	0.5 J	0.41 J	0.42 J	0.58 J	0.43 J	0.29 J	1.1 U	0.26 J	1.1 U	1.1 U	0.38 J	0.59 J	1.1 U	1 U
Perchlorate (314.0)	ug/kg	33.5 U	33.8 U	33.2 U	33.9 U	34.1 U	33.2 U	32.6 U	34 U	33.2 U	33.8 U	33.7 U	32.4 U	30.8 U	32.7 U	31.1 U
Perchlorate (6850)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Percent Moisture	%	10.4	11.2	9.7	11.6	12	9.6	8.1	11.7	9.6	11.3	11.1	7.3	2.7	8.2	3.4
pH	pH unit	7.62	8.43	7.44	8.54	7.88	8.06	8.82	7.55	7.43	7.68	8.74	8.69	8.24	8.25	8.87

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-5B

Sample Name		SL-050-SA5B-SB-3.0-4.0	SL-051-SA5B-SS-0.0-0.5	SL-051-SA5B-SB-3.0-4.0	SL-053-SA5B-SB-1.8-2.8	SL-054-SA5B-SS-0.0-0.5	SL-054-SA5B-SB-3.0-4.0	SL-055-SA5B-SB-4.0-5.0	SL-055-SA5B-SB-8.5-9.5	SL-056-SA5B-SB-4.0-5.0	SL-056-SA5B-SB-9.0-10.0	SL-057-SA5B-SS-0.0-0.5	SL-058-SA5B-SB-4.0-5.0	SL-059-SA5B-SS-0.0-0.5	SL-059-SA5B-SB-4.0-5.0	SL-059-SA5B-SB-8.5-9.5
Sample Date		01/06/2011	12/10/2010	01/06/2011	01/10/2011	12/14/2010	01/10/2011	01/07/2011	01/07/2011	01/07/2011	01/07/2011	12/10/2010	01/06/2011	12/10/2010	01/07/2011	01/07/2011
Lab SDG		DE054	DE034	DE054	DE056	DE038	DE056	DE055	DE055	DE055	DE055	DE035	DE054	DE034	DE055	DE055
Start Depth		3	0	3	1.8	0	3	4	8.5	4	9	0	4	0	4	8.5
End Depth		4	0.5	4	2.8	0.5	4	5	9.5	5	10	0.5	5	0.5	5	9.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Nitrate	mg/kg	1 J	--	1 J	--	--	--	--	--	--	--	--	--	--	--	--
Fluoride	mg/kg	2.9 J	2	2.6 J	1.1 J	1.4	1.2 UJ	1.4	1.2	1.1 U	1.3	1.4	2.2 J	4.2 J	1 J	1.9
Cyanide	mg/kg	0.55 U	--	0.57 U	--	--	--	--	--	--	--	--	--	--	--	--
Aluminum	mg/kg	13500 J	16700	23800 J	14300 J	15500	19400 J	13600	13400	13700	14800	24900 J	11500 J	22200	13200	12400
Iron	mg/kg	22100	24000	28700	21700	22500	20400	21600	19400	21400	21900	30300	20000	29700	20200	18700
Lead	mg/kg	3.32 J	10.6 J	8.79 J	5.43 J	7.07	6.35 J	7.25 J	7.8 J	7.05 J	32 J	12.1 J	5.23 J	9.63 J	5.47 J	6.77 J
Lithium	mg/kg	20.9	26.5	25.2	21.1 J	19.7	22.8 J	27.8	23.7	28	26.9	27.3	30	26.1	28.3	26.5
Magnesium	mg/kg	5520	5750	6520	4710	4710 J	4340	5340	4940	5290	5940	7210	4850	7330	5420	4390
Manganese	mg/kg	481	313	212	263 J	303 J	331 J	298	294	285	290	345 J	279	345	310	283
Mercury	mg/kg	0.103 U	0.0352 J	0.109 U	0.0168 J	0.022 J	0.0116 J	0.0657 J	0.104 U	0.0768 J	0.103 U	0.114 U	0.108 U	0.107 U	0.0601 J	0.0363 J
Molybdenum	mg/kg	0.475	0.668 J	0.689	0.887 J	0.674	0.819 J	0.828	1.06	0.805	0.784	0.61 J	0.557	0.353 J	0.469	0.579
Nickel	mg/kg	10.6	17 J	15	12 J	13.8	14.3 J	13.3	12.2	14.1	13	18.8 J	10.9	18.6 J	11.1	15.2
Potassium	mg/kg	2810	3810 J	2580	3090 J	3230 J	3070 J	3270	2900	3020	3300	4790	2850	4540 J	3180	3030
Silver	mg/kg	0.107 U	0.0263 J	0.0289 J	0.0545 J	0.0379 J	0.0518 J	0.0355 J	0.0319 J	0.192	0.0311 J	0.0416 J	0.109 U	0.0325 J	0.0173 J	0.028 J
Sodium	mg/kg	159	130	237	287	138	277	220	167	204	235	134	159	170	195	192
Strontium	mg/kg	32.4 J	50 J	32.1 J	104 J	35.1	39.8 J	22.1	21	19.4	23.8	123	15.8 J	136 J	18.2	17.4
Thallium	mg/kg	0.295 J	0.353 J	0.347 J	0.276 J	0.324	0.33 J	0.321	0.329	0.358	0.342	0.384 J	0.284 J	0.377 J	0.291	0.318
Tin	mg/kg	10.8 U	11.1 U	11.5 U	11 U	10.4 U	11.5 U	10.5 U	11 U	10.5 U	10.7 U	11.2 U	10.9 U	11.5 U	10.6 U	10.9 U
Titanium	mg/kg	1470	1490	1600	1150 J	1310 J	1300 J	1380	1170	1220	1290	1450 J	1130	1460	1300	1270
Antimony	mg/kg	0.13 J	0.222 UJ	0.265 J	0.216 UJ	0.225 J	0.224 UJ	0.184 J	0.127 J	0.153 J	0.448 J	0.225 UJ	0.192 J	0.223 R	0.208 J	0.192 J
Arsenic	mg/kg	5.1 J	6.92 J	8.98 J	5.6 J	5 J	6.21 J	6.83 J	6.69 J	6.57 J	7.27 J	7.1 J	5.88 J	6.05 J	5.4 J	6.42 J
Beryllium	mg/kg	0.569 J	0.634	0.975 J	0.495	0.579	0.652	0.639	0.65	0.627	0.664	0.698 J	0.488 J	0.642	0.535	0.641
Barium	mg/kg	128 J	115	139 J	131 J	131 J	134 J	111	102	111	114	136 J	83.5 J	121	90.5	115
Boron	mg/kg	1.67 J	10.7	1.52 J	2.96 J	9.07	1.99 J	5.24 U	5.48 U	5.26 U	4.91 J	12.5	3.05 J	15.9	5.32 U	3.02 J
Cadmium	mg/kg	0.105 J	0.339 J	0.0643 J	0.14 J	0.227	0.118 J	0.217	0.207	0.242	0.422	0.409 J	0.127	0.352 J	0.195	0.196
Chromium	mg/kg	19.6 J	26.8 J	29.2 J	23.4 J	24.1	24.8 J	24.3 J	20.5 J	23.1 J	23.8 J	31.7 J	18.5 J	29.1 J	19.9 J	27.8 J
Cobalt	mg/kg	5.71	7.84 J	4.64	6.48 J	5.8 J	7.22 J	6.53 J	6.04 J	6.85 J	6.8 J	10.1 J	5.48	9.45 J	5.25 J	6.49 J
Copper	mg/kg	7.17 J	12.4	11.2 J	13.7 J	12.9	12.1 J	9.94 J	9.6 J	10.3 J	10.5 J	14.4 J	8.74 J	14.5	8.01 J	10 J
Vanadium	mg/kg	39.7 J	38.1 J	52.3 J	44.5 J	42.7 J	51.6 J	43.7 J	37.1 J	43.6 J	44.4 J	63.3 J	36.8 J	46.2 J	36.5 J	44 J
Zinc	mg/kg	69.9 J	101	77.5 J	102 J	81.9	62.6 J	98.8	89	99.2	94.6	85.4 J	67.5 J	74.1	78.6	92.2
Zirconium	mg/kg	5.42 U	2.28 J	5.73 U	6.11	1.62 J	4.15 J	5.24 U	1.61 J	5.26 U	1.13 J	2.09 J	1.12 J	3.57 J	0.924 J	1.04 J
Calcium	mg/kg	4500	23000 J	3900	31600	7360 J	9590	6320 J	5660 J	5150 J	6580 J	67300 J	4640	76000 J	7600 J	4340 J
Phosphorus	mg/kg	1320	428	440	481	495	407	426 J	402 J	395 J	439 J	560 J	401	525	402 J	379 J
Selenium	mg/kg	0.136 J	0.164 J	0.167 J	0.0802 J	0.104 J	0.11 J	0.15 J	0.117 J	0.15 J	0.132 J	0.231 J	0.161 J	0.223 J	0.114 J	0.115 J
Chromium VI	mg/kg	1.1 U	1.7	0.3 J	1.1	0.49 J	0.68 J	1.1 U	0.24 J	0.23 J	1.1 U	0.42 J	0.35 J	1.1 U	0.72 J	1.1 U
Perchlorate (314.0)	ug/kg	32.8 U	33.3 U	35 U	33.7 U	32 U	34.6 U	32.4 U	32.9 U	32.5 U	32.8 U	34.8 U	33.2 U	34.4 U	32.2 U	32.8 U
Perchlorate (6850)	ug/kg	--	--	5.8 U	--	--	--	--	5.5 U	--	--	--	--	--	--	--
Percent Moisture	%	8.6	9.9	14.4	11	6.2	13.2	7.3	8.8	7.7	8.5	13.7	9.7	12.9	6.9	8.6
pH	pH unit	7.7	8.58	8.42	8.8	7.8	9.63	9.55	9.68	8.89	8.57	8.39	8.1	8.43	10.8	9.58

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-5B

Sample Name		SL-060-SA5B-SB-4.0-5.0	SL-060-SA5B-SB-9.0-10.0	SL-061-SA5B-SS-0.0-0.5	SL-061-SA5B-SB-3.5-4.5	SL-062-SA5B-SS-0.0-0.5	SL-062-SA5B-SB-4.0-5.0	SL-062-SA5B-SB-9.0-10.0	SL-063-SA5B-SB-3.0-4.0	SL-064-SA5B-SS-0.0-0.5	SL-065-SA5B-SS-0.0-0.5	SL-065-SA5B-SB-4.0-5.0	SL-065-SA5B-SB-9.0-10.0	SL-066-SA5B-SB-3.0-4.0	SL-067-SA5B-SS-0.0-0.5	SL-067-SA5B-SB-3.5-4.5
Sample Date		01/07/2011	01/07/2011	12/10/2010	01/07/2011	12/10/2010	01/07/2011	01/07/2011	01/06/2011	12/10/2010	12/10/2010	01/05/2011	01/05/2011	01/06/2011	12/10/2010	01/05/2011
Lab SDG		DE055	DE055	DE034	DE055	DE034	DE055	DE055	DE054	DE034	DE034	DE053	DE053	DE054	DE034	DE053
Start Depth		4	9	0	3.5	0	4	9	3	0	0	4	9	3	0	3.5
End Depth		5	10	0.5	4.5	0.5	5	10	4	0.5	0.5	5	10	4	0.5	4.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Nitrate	mg/kg	--	--	--	--	--	--	--	2.7	--	--	--	--	--	--	--
Fluoride	mg/kg	2.5	1.3	3.9 J	1.5	3.7 J	1.8	1.5	2.1 J	3.9 J	3.5 J	1.1 U	1.1 U	1.5 J	1.1 UJ	1.1 U
Cyanide	mg/kg	--	--	--	--	--	--	--	0.53 U	--	--	--	--	--	--	--
Aluminum	mg/kg	22600	15000	19600	12800	22000	19400	14600	21200 J	16200	18000	13900	16400	15700 J	9310	21000
Iron	mg/kg	28500	24100	27000	19900	30100	26400	22700	23500	25100	29100	24200	25600	21800	13700	22600
Lead	mg/kg	8.34 J	6.33 J	11.3 J	5.13 J	10.8 J	10.3 J	12.9 J	8.67 J	10.4 J	8.8 J	7.24 J	7.59 J	5.26 J	9.23 J	7.03 J
Lithium	mg/kg	31.8	32.2	25.3	26.2	24.6	29.1	25.8	20.4	25.6	25	33.5	34.9	23.6	13.4	24.8
Magnesium	mg/kg	7710	6280	6610	5210	7230	7020	6560	4540	6150	6320	5400	5920	4750	3260	4670
Manganese	mg/kg	337	341	323	274	343	328	252	264	344	340	308 J	322 J	319 J	195	606 J
Mercury	mg/kg	0.104 U	0.052 J	0.0175 J	0.0355 J	0.109 U	0.0349 J	0.107 U	0.0039 J	0.0124 J	0.0106 J	0.108 U	0.108 U	0.105 U	0.0071 J	0.0087 J
Molybdenum	mg/kg	0.485	1.67	0.618 J	0.725	0.442 J	0.783	0.669	0.862	0.611 J	0.46 J	0.68 J	0.713 J	0.467	0.641 J	0.72 J
Nickel	mg/kg	15.6	12.2	19.9 J	11.4	20.5 J	19.3	12.3	14.3	19.4 J	16.3 J	15.9	14.4	11.3	13.2 J	13
Potassium	mg/kg	4920	3360	4240 J	3060	5630 J	4650	3010	2680	5080 J	4160 J	2740 J	3200 J	2890	2410 J	2980 J
Silver	mg/kg	0.0233 J	0.0322 J	0.026 J	0.0189 J	0.0359 J	0.033 J	0.106 U	0.033 J	0.0352 J	0.0392 J	0.0171 J	0.032 J	0.0202 J	0.0257 J	0.0277 J
Sodium	mg/kg	193	254	149	188	147	197	232	123	156	421	329	380	323 J	128	238
Strontium	mg/kg	63.6	28.4	89.5 J	21.1	112 J	48.1	20.6	19.5 J	43 J	88.2 J	21.8	23.1	17.3 J	39.5 J	19.8
Thallium	mg/kg	0.369	0.324	0.387 J	0.257	0.411 J	0.468	0.358	0.374 J	0.386 J	0.312 J	0.43	0.32	0.256 J	0.207 J	0.357
Tin	mg/kg	10.9 U	10.3 U	11.1 U	10.7 U	11.2 U	10.9 U	10.5 U	10.6 U	10.8 U	10.9 U	10.8 U	10.8 U	10.9 U	10.7 U	10.9 U
Titanium	mg/kg	1480	1370	1420	1170	1470	1350	1560	1330	1380	1360	1390	1440	1220	979	1140
Antimony	mg/kg	0.126 J	0.337 J	0.225 UJ	0.218 J	0.225 R	0.243 J	0.164 J	0.214 J	0.222 UJ	0.214 R	0.244 UJ	0.595 UJ	0.163 J	0.216 R	0.211 UJ
Arsenic	mg/kg	6.38 J	6.66 J	6.71 J	7.74 J	7.32 J	8.28 J	6.49 J	8.9 J	6.89 J	5.04 J	9.26 J	8.63 J	5.22 J	4.44 J	7.18 J
Beryllium	mg/kg	0.723	0.607	0.664	0.472	0.724	0.874	0.688	1 J	0.628	0.547	0.678 J	0.675 J	0.546 J	0.383	0.873 J
Barium	mg/kg	109	103	127	116	133	136	117	166 J	120	116	91.7	104	92.4 J	83.9	111
Boron	mg/kg	6.14	4.28 J	14.7	5.35 U	14.6	4.46 J	5.74	1.27 J	10.6	13.7	5.38 U	5.39 U	2.91 J	9.2	5.44 U
Cadmium	mg/kg	0.282	0.174	0.393 J	0.132	0.457 J	0.343	0.117	0.11	0.339 J	0.298 J	0.13	0.184	0.114 J	0.333 J	0.0977 J
Chromium	mg/kg	31.3 J	29 J	31.5 J	20.9 J	31.8 J	38.1 J	24.6 J	29.5 J	29.5 J	24.2 J	25 J	24.7 J	27.2 J	20.1 J	29.4 J
Cobalt	mg/kg	7.57 J	6.24 J	9.87 J	6.03 J	9.51 J	9.55 J	7.34 J	5.52	9.34 J	7.63 J	6.08 J	7.81 J	5.71	6.53 J	9.4 J
Copper	mg/kg	11.7 J	8.94 J	15.7	9.6 J	15.8	15.1 J	10.2 J	10.4 J	15.3	13.1	12.3 J	11.7 J	9.16 J	12.9	7.56 J
Vanadium	mg/kg	61.9 J	42.9 J	45.1 J	38 J	45.8 J	71 J	44.8 J	56.4 J	41.2 J	39.3 J	51.4 J	54.6 J	38.1 J	25.1 J	63.5 J
Zinc	mg/kg	78.2	95.6	91.8	69.3	88.8	104	85	72.3 J	101	72.4	82	87.1	62.2 J	88.4	61.4
Zirconium	mg/kg	1.97 J	1.05 J	3.33 J	0.939 J	2.72 J	1.39 J	5.26 U	2.26 J	2.11 J	2.1 J	1.26 J	1.59 J	2.15 J	1.83 J	2.17 J
Calcium	mg/kg	33700 J	7350 J	42700 J	6810 J	68400 J	22000 J	4980 J	3210	20300 J	44500 J	5040	5140	2740	17800 J	2810
Phosphorus	mg/kg	551 J	447 J	502	384 J	590	518 J	503 J	566	528	499	524 J	526 J	436	410	499 J
Selenium	mg/kg	0.19 J	0.122 J	0.221 J	0.151 J	0.344 J	0.27 J	0.179 J	0.276 J	0.187 J	0.178 J	0.176 J	0.166 J	0.124 J	0.148 J	0.157 J
Chromium VI	mg/kg	1.1 U	1.1 U	1.1 U	1.8	1.2 U	0.26 J	0.23 J	0.36 J	0.34 J	1.1 U	0.24 J	0.24 J	1.1 UJ	0.38 J	0.29 J
Perchlorate (314.0)	ug/kg	33.4 U	32.4 U	34.4 U	33 U	35 U	33.1 U	32.5 U	32.5 U	33.6 U	33.1 U	33.2 U	33 U	33 U	32.3 U	33 U
Perchlorate (6850)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Percent Moisture	%	10.1	7.3	12.7	9.2	14.4	9.5	7.7	7.7	10.7	9.4	9.7	9.1	9.2	7.2	9
pH	pH unit	7.92	9.74	8.61	8.81	8.45	8.34	8.86	6.39	8.67	8.15	9.69	9.79	6.14	8.5	7.69

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-5B

Sample Name		SL-068-SA5B-SB-3.0-4.0	SL-069-SA5B-SB-3.0-4.0	SL-070-SA5B-SS-0.0-0.5	SL-070-SA5B-SB-2.5-3.5	SL-071-SA5B-SS-0.0-0.5	SL-071-SA5B-SB-2.0-3.0	SL-072-SA5B-SS-0.0-0.5	SL-072-SA5B-SB-4.0-5.0	SL-073-SA5B-SS-0.0-0.5	SL-073-SA5B-SB-4.0-5.0	SL-074-SA5B-SS-0.0-0.5	SL-074-SA5B-SB-4.0-5.0	SL-074-SA5B-SB-7.0-8.0	SL-075-SA5B-SS-0.0-0.5	SL-076-SA5B-SS-0.0-0.5
Sample Date		01/05/2011	01/05/2011	12/10/2010	01/05/2011	12/13/2010	01/12/2011	12/13/2010	01/12/2011	12/13/2010	01/13/2011	12/13/2010	01/13/2011	01/13/2011	12/13/2010	12/13/2010
Lab SDG		DE053	DE053	DE034	DE053	DE036	DE059	DE036	DE059	DE036	DE060	DE036	DE060	DE060	DE037	DE036
Start Depth		3	3	0	2.5	0	2	0	4	0	4	0	4	7	0	0
End Depth		4	4	0.5	3.5	0.5	3	0.5	5	0.5	5	0.5	5	8	0.5	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Nitrate	mg/kg	--	4.9 J	--	3.5 J	--	1.7	--	1.9	--	--	--	--	--	--	--
Fluoride	mg/kg	3.8	1.1	3.9	0.97 J	3.4 J	3.4	2.2 J	3	0.87 J	7.3	2.1 J	3.2	7.5	2.7	3.4 J
Cyanide	mg/kg	--	0.53 U	--	0.51 U	--	0.54 U	--	0.55 U	--	--	--	--	--	--	--
Aluminum	mg/kg	26400	17300	20100	13900	14400	26300	13800	34100	15400	30400	16200	27300	28700	14600	12400
Iron	mg/kg	38900	21900	26500	19700	20700	38700	20200	44300	20400	44900	24100	35400	40700	24500	24100
Lead	mg/kg	13.4 J	4.63 J	9.85 J	6.74 J	9.18 J	14.7 J	13 J	12.5 J	11.2 J	15.6	12.5 J	12.9	15	10 J	7.96 J
Lithium	mg/kg	35.7	18.4	24	25.4	23.9	50.4	23.2	61.6	23.2	53.7	29.6	39.6	63.9	26.6	32.1
Magnesium	mg/kg	9240	4600	6880	4770	4490	9180	4220	8980	4130	9860	4980	7060	7900	5230	4950
Manganese	mg/kg	266 J	192 J	329	284 J	248	493	279	247	266	375	279	452	269	337	295
Mercury	mg/kg	0.113 U	0.106 U	0.009 J	0.105 U	0.334	0.0902 J	0.0873 J	0.0117 J	0.0132 J	0.0054 J	0.0204 J	0.112 U	0.0218 J	0.105 U	0.0066 J
Molybdenum	mg/kg	0.659 J	0.377 J	0.447 J	0.582 J	0.62 J	0.903	0.694 J	0.356	0.956 J	0.662	0.725 J	0.58	0.808	0.843 J	0.504 J
Nickel	mg/kg	17.6	8.68	20.6 J	14.3	14.8 J	25.3 J	14.5 J	19.4 J	17.9 J	19.3	17.7 J	19	20.8	16.9	19.7 J
Potassium	mg/kg	3290 J	3640 J	4450 J	2630 J	2680	2610	2890	2640	2790	3810	2950	2920	2630	3410 J	2330
Silver	mg/kg	0.0207 J	0.103 U	0.0307 J	0.0147 J	0.241 J	0.0138 J	3.17 J	0.525 J	0.298 J	0.0698 J	0.405 J	0.0588 J	0.167	0.173 J	0.0363 J
Sodium	mg/kg	230	244	291	410	109	191	98.9 J	233	87.5 J	641	108	272	325	119	112
Strontium	mg/kg	33.1	16.1	126 J	17.9	16.7	39.1	19.2	43.7	20.1	37.5	22.2	26.7	29.2	18.5	14.7
Thallium	mg/kg	0.503	0.299	0.357 J	0.337	0.356	0.361	0.281	0.346	0.393	0.38	0.325	0.385	0.359	0.378	0.366
Tin	mg/kg	11.4 U	10.8 U	11.7 U	10.6 U	10.5 U	11.2 U	10.1 U	11.1 U	10.1 U	3.41 J	10.4 U	3 J	3.21 J	10.5 U	10.5 U
Titanium	mg/kg	1680	1330	1370	1290	1130	1330	1310	1180	1370	1940	1350	1460	1620	1330	1460
Antimony	mg/kg	0.422 UJ	0.207 UJ	0.231 UJ	0.254 UJ	0.102 J	0.0934 J	0.0917 J	0.0951 J	0.0768 J	0.311	0.216 R	0.195 J	0.442	0.193 J	0.0842 J
Arsenic	mg/kg	17.2 J	4.68 J	5.87 J	8.55 J	6.17 J	10.6 J	6.07 J	13.3 J	6.02 J	13.4	6.82 J	9.39	18.4	8.68 J	7.92 J
Beryllium	mg/kg	1.13 J	0.578 J	0.62	0.601 J	0.693 J	1.5 J	0.676 J	1.51 J	0.721 J	1.28	0.723 J	1.03	1.09	0.777	0.634 J
Barium	mg/kg	109	78.8	125	112	120 J	225 J	135 J	160 J	153 J	163	140 J	129	122	151 J	135 J
Boron	mg/kg	5.68 U	5.38 U	15.9	5.31 U	4.15 J	1.75 J	5.12	3.74 J	4.9 J	27.5 U	4.88 J	27.9 U	28.3 U	3.61 J	2.78 J
Cadmium	mg/kg	0.061 J	0.0526 J	0.355 J	0.172	0.21 J	0.131 J	0.411 J	0.156 J	0.291 J	0.132	0.305 J	0.182	0.183	0.173 J	0.211 J
Chromium	mg/kg	40.7 J	18.2 J	28.8 J	24.8 J	25.5 J	45.9 J	25.1 J	42.4 J	28.2 J	36	29.6 J	31.6	36.8	28.5	31.1 J
Cobalt	mg/kg	7.67 J	4.96 J	9.76 J	6.83 J	7.36 J	9.45	7.26 J	6.25	7.93 J	10.9	7.36 J	12.4	7.15	8.89	8.21 J
Copper	mg/kg	24.5 J	6.34 J	15.3	10 J	11.9 J	13.5 J	12.6 J	19 J	14.5 J	23.5	16.8 J	17.9	26.1	15.1	15.5 J
Vanadium	mg/kg	81.6 J	44.1 J	45.1 J	51.8 J	44.9	78.4 J	44.3	63.3 J	49.7	66.9	49.9	57.2	63	52.3	56
Zinc	mg/kg	96.9	59.4	79.6	73.1	98.5	103	111	102	105	86.5	100	74.1	92.5	127 J	108
Zirconium	mg/kg	1.43 J	1.12 J	3.14 J	1.63 J	1.01 J	5.61 U	1.32 J	1.4 J	1.75 J	1.25 J	1.49 J	1.66 J	2.53 J	2.25 J	5.26 U
Calcium	mg/kg	5920	2410	72300 J	3600	2980	5170	3240	5730	3190	5390	4110	3950	5140	3640	3280
Phosphorus	mg/kg	696 J	423 J	519	401 J	377	553 J	403	338 J	318	727	390	288	609	509 J	533
Selenium	mg/kg	0.409 J	0.186 J	0.243 J	0.199 J	0.0935 J	0.201 J	0.114 J	0.126 J	0.138 J	0.149 J	0.315 J	0.121 J	0.135 J	0.199 J	0.133 J
Chromium VI	mg/kg	0.35 J	1.1 U	0.44 J	0.26 J	1.1 UJ	0.26 J	0.36 J	0.32 J	0.47 J	0.57 J	0.51 J	0.43 J	0.54 J	0.46 J	1.1 U
Perchlorate (314.0)	ug/kg	34.1 U	32.3 U	35.3 U	26.3 J	32 U	33.6 U	31.7 U	34 U	31.5 U	34.3 U	32.7 U	34.8 U	35.4 U	31.9 U	31.9 U
Perchlorate (6850)	ug/kg	--	--	--	--	5 U	--	--	--	--	--	--	--	--	--	--
Percent Moisture	%	12	7	15.1	6.7	6.3	10.8	5.3	11.7	4.8	12.5	8.2	13.8	15.2	6.1 U	5.9
pH	pH unit	6.95	6.61	8.52	8.97	7.67	7.41	7.72	6.66	7.47	7.74	7.75	7.21	6.81	7.77	7.49

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-5B

Sample Name		SL-077-SA5B-SS-0.0-0.5	SL-078-SA5B-SS-0.0-0.5	SL-078-SA5B-SB-4.0-5.0	SL-081-SA5B-SB-2.5-3.5	SL-081-SA5B-SB-6.0-7.0	SL-082-SA5B-SB-2.25-3.25	SL-082-SA5B-SB-7.0-8.0	SL-083-SA5B-SS-0.0-0.5	SL-083-SA5B-SB-4.0-5.0	SL-084-SA5B-SS-0.0-0.5	SL-085-SA5B-SS-0.0-0.5	SL-085-SA5B-SB-3.0-4.0	SL-086-SA5B-SS-0.0-0.5	SL-086-SA5B-SB-4.0-5.0	SL-087-SA5B-SS-0.0-0.5
Sample Date		12/13/2010	12/13/2010	01/17/2011	01/14/2011	01/14/2011	01/17/2011	01/17/2011	12/13/2010	01/14/2011	12/13/2010	12/13/2010	01/11/2011	12/13/2010	01/11/2011	12/13/2010
Lab SDG		DE037	DE036	DE062	DE061	DE061	DE062	DE062	DE036	DE061	DE036	DE037	DE057	DE036	DE057	DE037
Start Depth		0	0	4	2.5	6	2.25	7	0	4	0	0	3	0	4	0
End Depth		0.5	0.5	5	3.5	7	3.25	8	0.5	5	0.5	0.5	4	0.5	5	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Nitrate	mg/kg	--	--	--	3.5	3.4	3.8 J	4 J	--	--	--	0.98 J	1.7	--	--	--
Fluoride	mg/kg	2.5	2.3 J	4.3 J	1.8 J	5.1 J	1.5 J	2.8 J	2.1 J	4.4 J	2.2 J	1.5	2.3	1.2	2.5	1.1 U
Cyanide	mg/kg	--	--	--	0.56 U	0.57 U	0.55 U	0.57 U	--	--	--	0.53 U	0.53 U	--	--	--
Aluminum	mg/kg	14300	12700	22300	22000	22500	18800	17700	17500	23300	14800	24900	25000	16900	14700	17800
Iron	mg/kg	25000	15200	27300	23700	24900	20300	26000	25600	29200	23000	24800	26500	18500	20000	25400
Lead	mg/kg	6.5 J	17.7 J	7.71 J	6.86	6.35	6.34 J	5.1 J	77.7 J	8.55	7.4 J	13.3 J	6.57	9.17 J	4.23	10.9 J
Lithium	mg/kg	34.4	18.6	49.1	25.2	28.5	19	44.5	22.3	31	27.6	22	30.7	19.5	17.6	24.1
Magnesium	mg/kg	5490	3350	6190	4890	5040	3540	5030	5240	6120	4950	4880	5740	3520	4480	5190
Manganese	mg/kg	298	210	199	307 J	259 J	276	887	312	360 J	286	356	204 J	255	164 J	311
Mercury	mg/kg	0.0036 J	0.0142 J	0.117 U	0.106 U	0.112 U	0.108 U	0.0036 J	0.0414 J	0.106 U	0.0086 J	0.161	0.108 U	0.0098 J	0.108 U	0.0304 J
Molybdenum	mg/kg	0.538 J	0.657 J	0.612	0.378	0.402	0.572	0.546	0.958 J	0.495	0.552 J	10.7 J	0.549	0.902 J	0.259	1.19 J
Nickel	mg/kg	15.7	21 J	19.1	12.8	13.1	12.7	13.4	23 J	18.9	13.9 J	22.8	9.77	13.9 J	7.34	19.7
Potassium	mg/kg	2400 J	2100	1460 J	2370	1930	2770 J	1630 J	3850	3100	3010	3390 J	1890	3280	1400	3220 J
Silver	mg/kg	0.0576 J	1.65 J	0.107 J	0.0333 J	0.0389 J	0.0305 J	0.0497 J	0.243 J	0.0796 J	0.0361 J	0.0715 J	0.0414 J	0.0435 J	0.0482 J	0.841 J
Sodium	mg/kg	90.4 J	367	134	146	156	148	178	95.9 J	187	86.4 J	259	136	71 J	128	186
Strontium	mg/kg	17.6	23.2	29.7	30.9	31.6	21.8	23.9	30	23.1	17.1	96.6	26.3	20.6	22.8	58.7
Thallium	mg/kg	0.332	0.313	0.252	0.277	0.284	0.246	0.244	0.343	0.39	0.311	0.364	0.407	0.375	0.172	0.303
Tin	mg/kg	10.6 U	10.6 U	11.7 U	11 U	11.1 U	11.5 U	11.2 U	10.3 U	10.9 U	10.8 U	10.5 U	10.4 U	10.3 U	11 U	10.7 U
Titanium	mg/kg	1370	1240	1600	1280	1400	1290	1320	1320	1420	1360	1310	1330	1110	1220	1360
Antimony	mg/kg	0.215 J	0.149 J	0.207 J	0.142 J	0.0838 J	0.131 J	0.165 J	0.249 J	0.138 J	0.219 R	0.47 J	0.132 J	0.21 R	0.0682 J	0.405 J
Arsenic	mg/kg	8.71 J	6.22 J	7.4	4.79	5.46	4.11	4.51	10.2 J	7.22	5.67 J	8.71 J	5.61	5.85 J	4.89	8.58 J
Beryllium	mg/kg	0.636	0.754 J	0.745	0.716 J	0.722 J	0.613	0.557	0.859 J	0.918 J	0.588 J	0.865	0.757 J	0.729 J	0.522 J	0.733
Barium	mg/kg	97.9 J	166 J	119	140 J	127 J	115	91.8	172 J	136 J	102 J	179 J	112 J	122 J	86.4 J	143 J
Boron	mg/kg	2.83 J	3.77 J	5.85 U	2.33 J	2.03 J	5.75 U	5.6 U	4.46 J	1.51 J	3.91 J	7.47	5.21 U	6.4	5.5 U	5.31 J
Cadmium	mg/kg	0.13 J	0.865 J	0.164	0.144	0.238	0.184	0.174	1.69 J	0.129	0.244 J	0.49 J	0.0517 J	0.287 J	0.107 U	0.282 J
Chromium	mg/kg	24.4	31 J	25.5 J	24 J	22 J	17.3 J	19.6 J	41.4 J	27.9 J	23.6 J	53.6	18.8 J	22.9 J	16.9 J	30.1
Cobalt	mg/kg	6.67	11.3 J	8.3	4.72	6.03	5.91	4.61	10 J	8.74	6.96 J	9.05	5.31	7.16 J	2.98	7.58
Copper	mg/kg	12.4	18.9 J	11.9	11.2 J	9.24 J	10.8	8.55	25.9 J	15.9 J	12.2 J	17.1	6.05 J	10.5 J	3.81 J	14.8
Vanadium	mg/kg	45.2	52.7	49.2 J	43.5 J	43.7 J	33.7 J	35.6 J	66.1	50.5 J	40.8	59	42.7 J	40.9	34.1 J	54.1
Zinc	mg/kg	84.3 J	175	64.8	51.9 J	51.9 J	47.3	57.9	170	70.1 J	87.2	147 J	42.9 J	81.6	39 J	133 J
Zirconium	mg/kg	1.35 J	1.26 J	2.53 J	1.75 J	2.1 J	2.98 J	5.6 U	1.82 J	1.6 J	1.39 J	6.16	1.66 J	1.95 J	1.24 J	3.44 J
Calcium	mg/kg	3660	3770	3530	3670	3730	2160	3040	4660	3460	3490	23100	2960	3430	2550	18800
Phosphorus	mg/kg	517 J	280	144 J	151 J	145 J	277 J	197 J	691	334 J	442	422 J	216 J	358	121 J	451 J
Selenium	mg/kg	0.0944 J	0.179 J	0.059 J	0.149 J	0.0878 J	0.139 J	0.0535 J	0.176 J	0.0825 J	0.203 J	0.237 J	0.0822 J	0.14 J	0.0659 J	0.136 J
Chromium VI	mg/kg	1.1 U	0.86 J	1.2 U	1.1 U	1.1 U	1.2 U	1.2 U	0.91 J	1.1 U	0.41 J	0.66 J	0.97 J	0.47 J	1.1 U	0.5 J
Perchlorate (314.0)	ug/kg	32.3 U	33.1 U	35.5 U	33.7 U	34.2 U	34.8 U	34.6 U	32.5 U	33.4 U	32.8 U	32.2 U	32.5 U	11.8 J	33.7 U	32.8 U
Perchlorate (6850)	ug/kg	5.4 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Percent Moisture	%	7.1	9.3	15.4	11.1	12.4	13.9	13.3	7.8	10.2	8.6	6.7	7.7	5.8	10.9	8.5 U
pH	pH unit	7.37	7.16	7.87	6.94	7.63	6.9	7.88	7.4	7.24	7.66	8.67	7.06	7.51	7.1	8.7

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-5B

Sample Name		SL-087-SA5B-SB-3.0-4.0	SL-088-SA5B-SB-3.0-4.0	SL-089-SA5B-SS-0.0-0.5	SL-089-SA5B-SB-4.0-5.0	SL-090-SA5B-SB-2.5-3.5	SL-091-SA5B-SS-0.0-0.5	SL-091-SA5B-SB-4.0-5.0	SL-092-SA5B-SS-0.0-0.5	SL-092-SA5B-SB-4.0-5.0	SL-093-SA5B-SB-3.0-4.0	SL-094-SA5B-SB-4.0-5.0	SL-095-SA5B-SS-0.0-0.5	SL-095-SA5B-SB-4.0-5.0	SL-096-SA5B-SB-2.0-3.0	SL-097-SA5B-SB-4.0-5.0
Sample Date		01/11/2011	01/11/2011	12/13/2010	01/11/2011	01/11/2011	12/13/2010	01/11/2011	12/13/2010	01/12/2011	01/11/2011	01/11/2011	12/13/2010	01/12/2011	01/12/2011	01/12/2011
Lab SDG		DE057	DE057	DE036	DE057	DE057	DE037	DE057	DE036	DE059	DE057	DE057	DE037	DE058	DE058	DE059
Start Depth		3	3	0	4	2.5	0	4	0	4	3	4	0	4	2	4
End Depth		4	4	0.5	5	3.5	0.5	5	0.5	5	4	5	0.5	5	3	5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Nitrate	mg/kg	1.1 J	10.1	--	10.7	25.2	--	9.8	--	5.2	--	--	--	--	--	1.9
Fluoride	mg/kg	2.7	1.9	1.1 U	1.9	1.1 U	4	1.6	3.6	2.5	1.7	1.7	2.3	4.7 J	2.3 J	2.1
Cyanide	mg/kg	0.53 U	0.55 U	--	0.55 U	0.54 U	--	0.54 U	--	0.54 U	--	--	--	--	--	0.56 U
Aluminum	mg/kg	13400	18600	14900	28900	20700	21900	25600	26400	15100	16200	28200	14600	22500	13000	25600
Iron	mg/kg	19100	19800	20600	30100	20100	29400	23800	33300	24100	18300	24000	21900	22900	20600	23100
Lead	mg/kg	3.05	6.19	34 J	6.2	5.28	15.2 J	5.14	12.7 J	5.83 J	4.34	7.12	10.9 J	7.04	4.97	7.93 J
Lithium	mg/kg	24.6	23	21.7	35.6	21.7	31.8	27.5	37.3	28.6	21.8	28.3	19.3	23.4	20.6	25.6
Magnesium	mg/kg	5050	4480	4940	6910	3830	7030	5180	8570	5190	4800	4860	4420	4300	4100	4410
Manganese	mg/kg	278 J	310 J	277	351 J	292 J	350	227 J	360	300	457 J	167 J	314	261	203	292
Mercury	mg/kg	0.105 U	0.11 U	0.155	0.112 U	0.106 U	0.0218 J	0.109 U	0.113 U	0.111 UJ	0.105 U	0.109 U	0.146	0.0298 J	0.0089 J	0.0033 J
Molybdenum	mg/kg	0.204	0.492	11.2 J	0.907	0.593	1.31 J	0.407	0.606 J	0.471	0.443	0.573	1.17 J	0.681	0.359	0.644
Nickel	mg/kg	7.68	11	19.8 J	10.5	11.1	25.9	9.34	23.3 J	11.9 J	9.54	10.5	17.1	12.2	7.19	14.9 J
Potassium	mg/kg	2750	3280	3240	2460	3100	4880 J	1960	6160	2870	2060	1350	3440 J	1940 J	1730 J	1520
Silver	mg/kg	0.105 U	0.0297 J	0.0831 J	0.0481 J	0.0393 J	0.0585 J	0.0387 J	0.0392 J	0.0259 J	0.106 U	0.0551 J	0.0526 J	0.0391 J	0.0155 J	0.082 J
Sodium	mg/kg	195	455	205	334	311	204	113	113	188	130	168	106	215	126	159
Strontium	mg/kg	15	24.8	50.5	34.6	18.4	43.1	24.8	51.1	21.7	17.2	26.1	28.4	30	16.5	24.3
Thallium	mg/kg	0.223	0.275	0.288	0.22	0.272	0.531	0.226	0.468	0.395	0.367	0.197	0.348	0.256	0.245	0.297
Tin	mg/kg	10.6 U	11.2 U	10.4 U	11.3 U	10.4 U	10.5 U	11.1 U	11.1 U	11 U	11 U	11.3 U	10.4 U	2.67 J	2.48 J	11.3 U
Titanium	mg/kg	1260	1200	1200	1730	1220	1560	1270	1610	1190	1210	1280	1080	1200	997	1100
Antimony	mg/kg	0.209 R	0.102 J	0.297 J	0.152 J	0.0784 J	0.437 J	0.181 J	0.068 J	0.117 J	0.138 J	0.0843 J	0.33 J	0.224 UJ	0.218 UJ	0.0825 J
Arsenic	mg/kg	3	4.15	7.5 J	7.11	4.32	10.8 J	6.69	8.56 J	4.72 J	4.44	5.96	7.12 J	5.15	4.69	6.52 J
Beryllium	mg/kg	0.328 J	0.569 J	0.654 J	0.795 J	0.613 J	1.01	0.717 J	0.867 J	0.623 J	0.564 J	0.924 J	0.736	0.798	0.495	1.02 J
Barium	mg/kg	62.4 J	98.1 J	155 J	140 J	112 J	175 J	103 J	147 J	104 J	81.5 J	93.6 J	162 J	106	60.6	141 J
Boron	mg/kg	5.28 U	2.53 J	8.79	5.11 J	2.59 J	7.01	1.29 J	9.54	2.2 J	5.49 U	1.5 J	4.36 J	5.59 U	5.35 U	2.49 J
Cadmium	mg/kg	0.105 U	0.189	0.664 J	0.115 U	0.11	0.271 J	0.111 U	0.285 J	0.179 J	0.106 U	0.11 U	0.278 J	0.0945 J	0.0674 J	0.0793 J
Chromium	mg/kg	13.4 J	17.3 J	38.6 J	21.9 J	16.2 J	50.2	20 J	43.1 J	19.6 J	14.9 J	18.9 J	27.3	19.8	13.9	25.7 J
Cobalt	mg/kg	3.74	5.28	7.96 J	5.54	5.19	12.3	3.07	12.3 J	6.29	7.76	5.04	7.66	6.05 J	3.93 J	6.79
Copper	mg/kg	5.56 J	8.73 J	19.4 J	6.46 J	8.34 J	19.2	5.79 J	19.4 J	13.8 J	5.89 J	6.84 J	14.9	7.47 J	4.64 J	6.39 J
Vanadium	mg/kg	27.4 J	34.2 J	56.6	42.6 J	32.7 J	93.5	39 J	84.7	37.7 J	33.5 J	41 J	51.8	37.7 J	32 J	48.4 J
Zinc	mg/kg	42.3 J	111 J	150	45.7 J	47.5 J	182 J	43.7 J	111	69.2	46.2 J	46.3 J	126 J	48.3	42	55.1
Zirconium	mg/kg	5.28 U	2.01 J	3.43 J	5.63 U	1.88 J	3.18 J	1.74 J	3.79 J	0.949 J	1.29 J	2.25 J	1.88 J	3.06 J	5.35 U	2.22 J
Calcium	mg/kg	2590	4780	18700	3630	1920	15700	2940	19800	4170	2480	2860	6280	4790 J	2140 J	2490
Phosphorus	mg/kg	324 J	291 J	543	346 J	316 J	518 J	198 J	569	407 J	248 J	156 J	441 J	205	177	154 J
Selenium	mg/kg	0.418 U	0.108 J	0.123 J	0.133 J	0.0848 J	0.334 J	0.0586 J	0.32 J	0.118 J	0.0627 J	0.0666 J	0.159 J	0.138 J	0.0995 J	0.111 J
Chromium VI	mg/kg	1.1 U	0.37 J	0.58 J	0.31 J	0.42 J	0.47 J	0.24 J	0.39 J	0.4 J	1.1 U	0.48 J	0.52 J	0.33 J	1.2	0.63 J
Perchlorate (314.0)	ug/kg	32.3 U	33.5 U	32.2 U	34.5 U	32.8 U	32.6 U	34.2 U	33.8 U	33.9 U	33 U	34.6 U	31.6 U	34.2 U	33 U	34.5 U
Perchlorate (6850)	ug/kg	--	5.6 U	--	--	--	--	--	--	--	--	--	--	5.7 U	--	--
Percent Moisture	%	7.1	10.4	6.7	13	8.5	8.1	12.2	11.2	11.6	9	13.4	5	12.3	9.2	13
pH	pH unit	8.06	9.61	8.58	7.14	5.94	8.37	6.67	8.12	7.25	6.66	6.72	8.14	8.15	6.91	7.07

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-5B

Sample Name		SL-097-SA5B-SB-7.0-8.0	SL-098-SA5B-SS-0.0-0.5	SL-098-SA5B-SB-4.0-5.0	SL-099-SA5B-SB-4.0-5.0	SL-100-SA5B-SS-0.0-0.5	SL-100-SA5B-SB-4.0-5.0	SL-101-SA5B-SS-0.0-0.5	SL-101-SA5B-SB-4.0-5.0	SL-101-SA5B-SB-7.5-8.5	SL-102-SA5B-SS-0.0-0.5	SL-103-SA5B-SS-0.0-0.5	SL-103-SA5B-SB-4.0-5.0	SL-103-SA5B-SB-9.0-10.0	SL-104-SA5B-SB-4.0-5.0	SL-104-SA5B-SB-9.0-10.0
Sample Date		01/12/2011	12/14/2010	01/12/2011	01/11/2011	12/22/2010	01/11/2011	12/22/2010	01/17/2011	01/17/2011	12/22/2010	12/13/2010	01/12/2011	01/12/2011	01/12/2011	01/12/2011
Lab SDG		DE059	DE038	DE059	DE057	DE051	DE057	DE051	DE062	DE062	DE051	DE036	DE059	DE059	DE059	DE059
Start Depth		7	0	4	4	0	4	0	4	7.5	0	0	4	9	4	9
End Depth		8	0.5	5	5	0.5	5	0.5	5	8.5	0.5	0.5	5	10	5	10
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Nitrate	mg/kg	1.4 J	--	2.1	1.3 J	--	1.9	--	7.4 J	4.7 J	--	--	22.6	5	40.4	3.3
Fluoride	mg/kg	1.8 J	1.4	4.6	1.8	1.5 J	1.9	2.1	28.6 J	5 J	1.3 J	4.8	2.1	3.5	1.8	3.5
Cyanide	mg/kg	0.56 U	--	0.57 U	0.55 U	--	0.54 U	--	0.54 U	0.54 U	--	--	0.57 U	0.57 U	0.55 U	0.55 U
Aluminum	mg/kg	13700	13300	22300	21400	15500	22300	22700	24500	15100	16000	27400	23700	15600	18700	15000
Iron	mg/kg	15900	22800	21900	28300	21000 J	26000	25400 J	25300	21500	21000 J	36600	27100	20000	21300	20400
Lead	mg/kg	5.61 J	7	7.87 J	6.55	5	6.67	10.5	5.99 J	5.55 J	9.32	13.6 J	12.3 J	9.93 J	9.19 J	11.3 J
Lithium	mg/kg	19.7	18.4	26.4	34.5	23	35.4	23.4	28.7	27.4	22.7	40.6	26.3	25.4	24.3	23
Magnesium	mg/kg	3490	5590 J	4440	5730	4940 J	6200	4660 J	4940	4630	4600 J	8970	6620	4460	5050	4560
Manganese	mg/kg	162	312 J	398	293 J	283	375 J	547	217	321	304	371	350	280	300	255
Mercury	mg/kg	0.0032 J	0.0248 J	0.0051 J	0.113 U	0.0161 J	0.106 U	0.109 U	0.111 U	0.108 U	0.0763 J	0.106 U	0.11 U	0.0081 J	0.103 U	0.0146 J
Molybdenum	mg/kg	0.382	0.472	0.616	0.417	0.447	0.552	0.888	0.632	0.517	15.9	0.455 J	0.558	0.77	0.603	0.683
Nickel	mg/kg	9.6 J	10.6	16 J	11	10.4	16.4	21.2	16	14.8	24	23.7 J	18.4 J	14.5 J	16 J	15.3 J
Potassium	mg/kg	1160	4600 J	2010	1700	3050 J	1770	3240 J	1640 J	1700 J	3290 J	5820	4740	2880	3800	2610
Silver	mg/kg	0.0378 J	0.0257 J	0.0949 J	0.0427 J	0.0305 J	0.0138 J	0.0532 J	0.0682 J	0.108 U	0.0333 J	0.0321 J	0.0454 J	0.0293 J	0.0521 J	0.0576 J
Sodium	mg/kg	99.3 J	180	151	174	95.5 J	155	162	697	351	118	129	116	160	113	191
Strontium	mg/kg	15.9	26.7	21.1	24.9	25.6 J	25.7	28.5 J	30.2	18.3	24.5 J	33.6	35.4	20.9	24	28.8
Thallium	mg/kg	0.291	0.244	0.364	0.213	0.243	0.219	0.434	0.286	0.209	0.323	0.538	0.355	0.334	0.325	0.385
Tin	mg/kg	11.2 U	10.2 U	11.3 U	10.9 U	2.26 J	10.7 U	2.5 J	11.1 U	10.6 U	2.27 J	10.9 U	11.5 U	11.5 U	11.1 U	11 U
Titanium	mg/kg	995	1590 J	1150	1260	1130	1220	1330	1470	1220	1150	1690	1210	1140	1090	1040
Antimony	mg/kg	0.229 UJ	0.126 J	0.217 UJ	0.242 J	0.228 UJ	0.165 J	0.227 UJ	0.151 J	0.212 J	0.222 UJ	0.0708 J	0.197 J	0.0967 J	0.0873 J	0.174 J
Arsenic	mg/kg	5.58 J	3.81 J	6.96 J	6.3	3.21 J	6.83	6.58 J	5.14	5.71	6.55 J	8.89 J	7.09 J	6.44 J	5.75 J	6.73 J
Beryllium	mg/kg	0.557 J	0.365	1.02 J	0.734 J	0.404	0.668 J	0.947	0.743	0.536	0.659	0.976 J	0.866 J	0.727 J	0.838 J	0.796 J
Barium	mg/kg	60.7 J	127 J	181 J	71.7 J	102 J	100 J	196 J	123	76.4	108 J	163 J	132 J	107 J	123 J	119 J
Boron	mg/kg	1.35 J	8.72	3.01 J	1.14 J	5.13 J	5.37 U	5.41 J	5.55 U	5.29 U	4.7 J	7.62	7.1	2.32 J	4.76 J	2.61 J
Cadmium	mg/kg	0.114 J	0.176	0.114 J	0.0485 J	0.121	0.056 J	0.485	0.108 J	0.0963 J	0.367	0.252 J	0.243 J	0.572 J	0.198 J	0.841 J
Chromium	mg/kg	16.7 J	18.8	27.6 J	21.5 J	14.9 J	20.8 J	25.8 J	22.2 J	19.3 J	30.9 J	45.8 J	31.8 J	24.4 J	27.2 J	23.9 J
Cobalt	mg/kg	5.43	7.01 J	6.55	3.96	5.29 J	8.71	13.3 J	4.93	6.34	7.79 J	14 J	9.23	7.44	7.79	7.31
Copper	mg/kg	7.59 J	13.1	7.7 J	4.91 J	13.5 J	8.08 J	13.2 J	8.46	8.07	14.5 J	19.4 J	11.5 J	9.38 J	9.58 J	8.49 J
Vanadium	mg/kg	32.5 J	45.6 J	50.3 J	42.9 J	48.4 J	41.4 J	46.6 J	43.4 J	38 J	50.9 J	90.2	59.8 J	45.9 J	50.9 J	42.3 J
Zinc	mg/kg	49	71.9	61.9	41.6 J	57.2	53.2 J	74.8	51.3	50.1	113	117	84.7	103	73.6	163
Zirconium	mg/kg	1.93 J	1.4 J	2.11 J	1.17 J	3.01 J	1.64 J	2.4 J	3.15 J	5.29 U	2.04 J	5.02 J	3.19 J	1.69 J	2.43 J	1.3 J
Calcium	mg/kg	1960	7920 J	2330	3350	5190 J	3340	3030 J	3860	2710	4940 J	7790	11800	3880	6880	4160
Phosphorus	mg/kg	78.6 J	634	184 J	291 J	423 J	329 J	256 J	110 J	253 J	344 J	532	567 J	395 J	556 J	376 J
Selenium	mg/kg	0.086 J	0.0689 J	0.0931 J	0.14 J	0.455 U	0.136 J	0.21 J	0.0491 J	0.0907 J	0.195 J	0.273 J	0.193 J	0.144 J	0.174 J	0.164 J
Chromium VI	mg/kg	0.27 J	1 U	0.28 J	1.1 U	0.3 J	1.1 U	1.3	1.1 U	1.1 U	0.32 J	1.1 U	0.39 J	0.48 J	0.4 J	0.43 J
Perchlorate (314.0)	ug/kg	34.3 U	31 U	34.2 U	34.4 U	34.8 U	32.9 U	35.3 U	34.3 U	32.7 U	33.9 U	33.8 U	34.6 U	34.4 U	33.3 U	33.7 U
Perchlorate (6850)	ug/kg	5.7 U	5.2 U	--	--	--	--	5.9 U	--	--	--	--	--	--	--	--
Percent Moisture	%	12.6	3.2	12.2	12.7	13.9	8.8	15.1	12.6	8.3	11.5	11.2	13.2	12.7	10	11
pH	pH unit	7	7.71	5.61	6.76	7.7	6.87	7.08	8.45	8.16	8.71	7.99	7.45	8.04	7.74	8.29

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-5B

Sample Name		SL-105-SA5B-SS-0.0-0.5	SL-105-SA5B-SB-4.0-5.0	SL-106-SA5B-SB-4.0-5.0	SL-107-SA5B-SB-4.0-5.0	SL-108-SA5B-SS-0.0-0.5	SL-108-SA5B-SB-4.0-5.0	SL-109-SA5B-SS-0.0-0.5	SL-109-SA5B-SB-4.0-5.0	SL-110-SA5B-SB-4.0-5.0	SL-111-SA5B-SB-4.0-5.0	SL-111-SA5B-SB-9.0-10.0	SL-112-SA5B-SB-4.0-5.0	SL-113-SA5B-SB-4.0-5.0	SL-114-SA5B-SS-0.0-0.5	SL-114-SA5B-SB-4.0-5.0
Sample Date		12/14/2010	01/10/2011	01/10/2011	01/10/2011	12/14/2010	01/10/2011	12/14/2010	01/10/2011	01/10/2011	01/10/2011	01/10/2011	01/17/2011	01/17/2011	12/22/2010	01/18/2011
Lab SDG		DE038	DE056	DE056	DE056	DE038	DE056	DE038	DE056	DE056	DE056	DE056	DE062	DE062	DE051	DE063
Start Depth		0	4	4	4	0	4	0	4	4	4	9	4	4	0	4
End Depth		0.5	5	5	5	0.5	5	0.5	5	5	5	10	5	5	0.5	5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Nitrate	mg/kg	--	--	--	--	--	--	--	--	--	--	--	1.5 J	1.6 J	1.9 U	7.4
Fluoride	mg/kg	1.8	6.7 J	2.5 J	1.3 J	1.3	3.2 J	3.3	2.1 J	2.3 J	2.3	3	3.2	3.4 J	1.3 J	3.4 J
Cyanide	mg/kg	--	--	--	--	--	--	--	--	--	--	--	0.52 U	0.54 U	0.6 U	0.52 U
Aluminum	mg/kg	13500	28500 J	19000 J	27900 J	15100	24100 J	18600	23500 J	19400 J	16000 J	15900 J	20300	12800	18800	15800
Iron	mg/kg	27000	26600	22400	26200	25800	25000	26500	25000	21400	22400	21400	23800	20600	22700 J	23400
Lead	mg/kg	9.06	11 J	6.46 J	7.03 J	8.16	7.92 J	6.93	6.8 J	8.95 J	9.15 J	7.14 J	7.02 J	5.05 J	7.69	6.17 J
Lithium	mg/kg	18.1	33.7 J	33.8 J	32.2 J	19.2	30 J	23.5	32 J	27.1 J	27.6 J	23.3 J	28.7	20.9	22.7	21.8
Magnesium	mg/kg	5240 J	5190	5000	5290	5140 J	4970	4670 J	5230	4510	5420	4910	5160	4740	6260 J	4650
Manganese	mg/kg	343 J	225 J	311 J	275 J	358 J	224 J	307 J	355 J	334 J	323 J	233 J	279	279	292	300
Mercury	mg/kg	0.0207 J	0.0083 J	0.107 U	0.113 U	0.0376 J	0.0078 J	0.0156 J	0.107 U	0.0193 J	0.17	0.0068 J	0.0051 J	0.108 U	0.123 U	0.0085 J
Molybdenum	mg/kg	1.43	0.903 J	0.644 J	0.706 J	1.13	0.581 J	0.646	0.681 J	0.798 J	0.951 J	0.67 J	0.476	0.489	0.459	0.571
Nickel	mg/kg	15.6	18 J	13.6 J	13.2 J	16.2	13.2 J	12.6	14 J	19.1 J	20.2 J	18.3 J	16	13.8	14.4	12.3
Potassium	mg/kg	3870 J	1620 J	1910 J	2020 J	3890 J	1620 J	3240 J	1920 J	1810 J	2630 J	2000 J	2060 J	2290 J	4650 J	2910 J
Silver	mg/kg	0.034 J	0.084 J	0.024 J	0.0643 J	0.0221 J	0.076 J	0.0289 J	0.0362 J	0.0679 J	0.0606 J	0.0327 J	0.0168 J	0.0262 J	0.0289 J	0.0357 J
Sodium	mg/kg	179	685	177	215	174	145	133	208	162	129	156	123	108 J	133	111
Strontium	mg/kg	30	27.4 J	18.9 J	26.7 J	29.3	21.8 J	25.5	24.1 J	20.9 J	27.8 J	22.3 J	21.3	16.8	58.9 J	22.4
Thallium	mg/kg	0.294	0.358 J	0.337 J	0.308 J	0.271	0.284 J	0.288	0.261 J	0.358 J	0.424 J	0.232 J	0.32	0.244	0.296	0.259
Tin	mg/kg	10.3 U	11 U	10.4 U	11.3 U	10.3 U	10.8 U	10.2 U	10.9 U	10.6 U	11.3 U	11 U	10.6 U	11.1 U	2.21 J	10.7 U
Titanium	mg/kg	1340 J	1360 J	1250 J	1430 J	1500 J	1300 J	1400 J	1340 J	1270 J	1250 J	1130 J	1300	1290	1270	1290
Antimony	mg/kg	0.144 J	0.223 UJ	0.205 UJ	0.23 UJ	0.149 J	0.21 UJ	0.127 J	0.219 UJ	0.209 UJ	0.221 UJ	0.225 UJ	0.265 J	0.159 J	0.247 UJ	0.215 UJ
Arsenic	mg/kg	4.15 J	10.7 J	7.31 J	6.44 J	4.46 J	7.27 J	5.97 J	6.43 J	8.35 J	8.4 J	8.34 J	6.86	5.5	4.93 J	4.89
Beryllium	mg/kg	0.427	1.02	0.67	0.896	0.467	0.888	0.72	0.751	0.962	0.834	0.813	0.697	0.478	0.513	0.566
Barium	mg/kg	140 J	136 J	102 J	123 J	133 J	106 J	120 J	125 J	170 J	175 J	126 J	84.4	108	109 J	109
Boron	mg/kg	8.56	4.1 J	5.22 U	3.75 J	8.66	1.14 J	9.42	5.47 U	2.35 J	5.64 U	5.52 U	5.28 U	5.54 U	9.74	5.33 U
Cadmium	mg/kg	0.211	0.0856 J	0.0494 J	0.0613 J	0.183	0.064 J	0.152	0.0651 J	0.103 J	0.171 J	0.106 J	0.0538 J	0.136	0.256	0.151
Chromium	mg/kg	23.5	35.1 J	22.4 J	25.3 J	25.4	25.3 J	21.5	23.9 J	33.9 J	32.3 J	31.6 J	23.1 J	19 J	23.6 J	19.5
Cobalt	mg/kg	6.24 J	10.7 J	8.93 J	5.92 J	6.76 J	5.82 J	5.79 J	8.12 J	7.38 J	9.35 J	7.61 J	10	6.12	7.12 J	6.19 J
Copper	mg/kg	16.5	11.6 J	8.97 J	8.4 J	16.3	7.04 J	16.1	7.8 J	12 J	17.1 J	12.2 J	10.2	12.2	13.6 J	10 J
Vanadium	mg/kg	43.3 J	66.9 J	44.5 J	48 J	44 J	51 J	43.7 J	49.2 J	62.1 J	57.9 J	52.6 J	42.1 J	38.1 J	56.9 J	39.5
Zinc	mg/kg	96.1	74.8 J	59.3 J	55.3 J	79.7	51.8 J	64.5	59.8 J	78.1 J	103 J	77.9 J	52.5	53.8	78.1	58.7
Zirconium	mg/kg	5.17 U	3.19 J	2.79 J	3.52 J	5.13 U	3.43 J	1.54 J	3.61 J	3.1 J	2.86 J	2.89 J	2.71 J	5.54 U	1.94 J	5.33 U
Calcium	mg/kg	6520 J	2790	2560	2830	5160 J	2640	4040 J	2810	2430	4410	3140	3480	3450	27500 J	3130
Phosphorus	mg/kg	762	114	266	160	533	201	427	231	155	404	294	214 J	389 J	534 J	385
Selenium	mg/kg	0.0577 J	0.158 J	0.118 J	0.0617 J	0.0656 J	0.0797 J	0.0757 J	0.133 J	0.0628 J	0.109 J	0.0804 J	0.179 J	0.0724 J	0.494 U	0.0928 J
Chromium VI	mg/kg	1 U	1.1 U	0.52 J	0.42 J	0.52 J	0.35 J	1.1 U	0.32 J	0.32 J	0.36 J	0.28 J	1.1 U	1.1 U	0.36 J	1.1 U
Perchlorate (314.0)	ug/kg	31.3 U	33.7 U	32.3 U	34.5 U	31.4 U	33.1 U	31.8 U	33.8 U	31.9 U	33.8 U	34.1 U	32.3 U	33.6 U	37.4 U	32.6 U
Perchlorate (6850)	ug/kg	--	--	--	--	--	--	--	5.6 U	--	--	--	5.4 U	--	--	--
Percent Moisture	%	4.2	11.1	7	13.1	4.4	9.3	5.8	11.3	6	11.3	12	7.1	10.7	19.8	8.1
pH	pH unit	7.81	7.91	6.78	6.24	6.94	6.54	8.11	7.84	7.4	8.17	8.14	8.17	8.02	8.21	7.65

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-5B

Sample Name		SL-115-SA5B-SB-4.0-5.0	SL-116-SA5B-SB-4.0-5.0	SL-117-SA5B-SS-0.0-0.5	SL-117-SA5B-SB-4.0-5.0	SL-118-SA5B-SS-0.0-0.5	SL-118-SA5B-SB-4.0-5.0	SL-118-SA5B-SB-8.0-9.0	SL-119-SA5B-SS-0.0-0.5	SL-119-SA5B-SB-3.0-4.0	SL-120-SA5B-SS-0.0-0.5	SL-120-SA5B-SB-3.0-4.0	SL-121-SA5B-SS-0.0-0.5	SL-121-SA5B-SB-4.0-5.0	SL-121-SA5B-SB-9.0-10.0	SL-122-SA5B-SS-0.0-0.5
Sample Date		01/18/2011	01/18/2011	12/22/2010	01/17/2011	12/22/2010	01/18/2011	01/18/2011	12/14/2010	01/13/2011	12/14/2010	01/13/2011	12/14/2010	01/13/2011	01/13/2011	12/14/2010
Lab SDG		DE063	DE063	DE051	DE062	DE051	DE063	DE063	DE038	DE060	DE038	DE060	DE038	DE060	DE060	DE038
Start Depth		4	4	0	4	0	4	8	0	3	0	3	0	4	9	0
End Depth		5	5	0.5	5	0.5	5	9	0.5	4	0.5	4	0.5	5	10	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Nitrate	mg/kg	1.6 J	1.5 J	1.9 U	1.9 J	1.8 U	1.5 J	1.9	--	--	--	--	--	--	--	--
Fluoride	mg/kg	2.9 J	2.7	1.9	3.1 J	1.8 J	1.6	4	2.4	2.5	1 UJ	1.6	2.9	1.3	4.6	1.8
Cyanide	mg/kg	0.54 U	0.55 U	0.62 U	0.56 U	0.58 U	0.57 U	0.56 U	--	--	--	--	--	--	--	--
Aluminum	mg/kg	15700	18200	25200	14000	11100	19500	26100	21600	19100	7750	15400	16500	11000	38500	12800
Iron	mg/kg	23200	28800	28500 J	22800	12400 J	24200	45700	28000	28900	10500	28500	22300	16700	61000	16300
Lead	mg/kg	6.87 J	7.82 J	9.53	7.42 J	9.56	6.93 J	16.8 J	8.79	6.69	5.86	9.45	11.1	4.24	13.3	7.63
Lithium	mg/kg	22.7	30.7	24.2	28.6	11.2	24.6	53.5	24.5	27.4	7.6 J	27.7	21.2	19.7	67.2	15.4
Magnesium	mg/kg	4520	5620	7560 J	5270	3230 J	4620	8950	5420 J	6060	1850 J	5630	4540 J	3700	14000	3150 J
Manganese	mg/kg	305	354	357	346	156	277	364	427 J	259	131 J	336	341 J	530	640	233 J
Mercury	mg/kg	0.0047 J	0.0059 J	0.12 U	0.0043 J	0.11 U	0.0113 J	0.0195 J	0.105 U	0.11 U	0.0103 J	0.005 J	0.0048 J	0.0077 J	0.0477 J	0.0044 J
Molybdenum	mg/kg	0.557	0.5	0.527	0.501	0.502	0.436	0.443	0.769	0.338	0.31	0.414	0.664	0.206	0.945	0.566
Nickel	mg/kg	13.5	14.5	18	17.8	17.3	10.3	25.1	18	11.6	5.49	15.3	14.2	12	40.5	11.6
Potassium	mg/kg	2780 J	2930 J	5740 J	2560 J	2470 J	1320 J	2850 J	4930 J	1720	1440 J	1550	3780 J	2130	5350	3020 J
Silver	mg/kg	0.0257 J	0.0266 J	0.0309 J	0.0451 J	0.03 J	0.0508 J	0.169	0.0445 J	0.113 U	0.0154 J	0.0158 J	0.0291 J	0.0157 J	0.179	0.0169 J
Sodium	mg/kg	104 J	96.8 J	129	83.8 J	72.7 J	133	242	98.1 J	138	49.7 J	106 J	86.8 J	68 J	522	70 J
Strontium	mg/kg	21.1	21.5	114 J	17.2	46.2 J	21	29.6	24.1	23.9	25	20.7	20.4	11	54.4	21.1
Thallium	mg/kg	0.302	0.313	0.344	0.285	0.295	0.329	0.392	0.34	0.193	0.101 J	0.28	0.262	0.21	0.576	0.229
Tin	mg/kg	10.8 U	11.3 U	2.05 J	11.1 U	1.61 J	11.1 U	11.1 U	10.5 U	2.82 J	10.3 U	2.59 J	10.4 U	2.15 J	3.08 J	10.5 U
Titanium	mg/kg	1230	1410	1240	1330	615	1200	1150	1640 J	1300	404 J	1130	1280 J	1010	2170	902 J
Antimony	mg/kg	0.213 UJ	0.225 UJ	0.248 UJ	0.171 J	0.229 UJ	0.226 UJ	0.22 UJ	0.222 J	0.108 J	0.155 J	0.141 J	0.154 J	0.0839 J	0.145 J	0.103 J
Arsenic	mg/kg	6.02	8.08	6.75 J	7.39	6.18 J	8.12	10.5	6.66 J	5.1	3.17 J	8.15	5.88 J	6.92	7.19	4.98 J
Beryllium	mg/kg	0.619	0.698	0.723	0.661	0.624	0.662	1.45	0.845	0.592	0.294	1.01	0.623	0.436	1.66	0.531
Barium	mg/kg	109	103	115 J	94.8	122 J	76.4	132	170 J	88.1	48.1 J	93	124 J	76.1	399	102 J
Boron	mg/kg	5.42 U	5.63 U	11.4	5.54 U	5.79 J	5.54 U	7.36 J	9.24	27.6 U	5.91	27.2 U	8.99	5.35 U	31.5 U	7.7
Cadmium	mg/kg	0.179	0.145	0.36	0.144	0.254	0.0859 J	0.201	0.235	0.0458 J	0.121	0.0802 J	0.227	0.0657 J	0.226	0.182
Chromium	mg/kg	20.6	22.9	31.5 J	23 J	28.6 J	20.9	36	28.8	22.3	8.45	24.7	22.3	16.2	62.1	19.2
Cobalt	mg/kg	7.49 J	7.36 J	8.52 J	6.78	8.64 J	5.5 J	11.7 J	7.67 J	6.21	3.77 J	11.3	6.14 J	4.94	16.1	5.19 J
Copper	mg/kg	10.6 J	11 J	13.6 J	14.8	12.9 J	7.37 J	23.1 J	15.1	7.92	5.68	16.9	12.6	9.18	35.3	10.9
Vanadium	mg/kg	39.7	43	60.6 J	40.5 J	54.1 J	41.6	58	46.8 J	41.2	17.5 J	46.4	39.1 J	26.4	79.6	33.8 J
Zinc	mg/kg	61.2	71.9	77.6	69.6	71.2	47.4	116	77.5	48.7	26.3	75.1	62.1	48.6	112	51.2
Zirconium	mg/kg	5.42 U	5.63 U	2.97 J	5.54 U	1.94 J	5.54 U	4.17 J	1.08 J	1.43 J	2.17 J	1.69 J	1.93 J	1.92 J	1.83 J	1.81 J
Calcium	mg/kg	3440	4040	71800 J	4120	22300 J	2970	7320	3230 J	3340	2070 J	4880	3820 J	3140	12200	2290 J
Phosphorus	mg/kg	374	439	640 J	471 J	391 J	190	621	434	243	271	480	458	429	2020	369
Selenium	mg/kg	0.105 J	0.125 J	0.296 J	0.0961 J	0.265 J	0.197 J	0.0755 J	0.161 J	0.0987 J	0.146 J	0.121 J	0.158 J	0.117 J	0.0697 J	0.12 J
Chromium VI	mg/kg	1.1 U	1.1 U	0.33 J	1.1 U	0.44 J	1.1 U	1.1 U	0.57 J	1.1 U	1 UJ	0.86 J	0.43 J	1.1 U	0.49 J	0.43 J
Perchlorate (314.0)	ug/kg	33.2 U	34.4 U	37.2 U	33.9 U	35.4 U	34.2 U	33.7 U	32.5 U	33.8 U	31.3 U	32.9 U	31.8 U	32.4 U	39 U	31.7 U
Perchlorate (6850)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Percent Moisture	%	9.6	12.9	19.4	11.5	15.2	12.3	10.9	7.6	11.2	4.1	8.9	5.7	7.5	23	5.5
pH	pH unit	7.92	7.99	8.19	8.1	7.9	6.2	7.13	7.03	7.01	8.38	7.49	7.49	8.04	7.6	7.58

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-5B

Sample Name		SL-122-SA5B-SB-2.0-3.0	SL-123-SA5B-SS-0.0-0.5	SL-124-SA5B-SS-0.0-0.5	SL-124-SA5B-SB-4.0-5.0	SL-124-SA5B-SB-7.5-8.5	SL-125-SA5B-SS-0.0-0.5	SL-125-SA5B-SB-4.0-5.0	SL-126-SA5B-SS-0.0-0.5	SL-126-SA5B-SB-2.0-3.0	SL-128-SA5B-SS-0.0-0.5	SL-128-SA5B-SB-4.0-5.0	SL-129-SA5B-SS-0.0-0.5	SL-129-SA5B-SB-2.0-3.0	SL-131-SA5B-SS-0.0-0.5	SL-132-SA5B-SS-0.0-0.5
Sample Date		01/13/2011	12/14/2010	12/14/2010	01/14/2011	01/14/2011	12/14/2010	01/14/2011	12/14/2010	01/14/2011	12/14/2010	01/14/2011	12/14/2010	01/14/2011	12/15/2010	12/15/2010
Lab SDG		DE060	DE038	DE038	DE061	DE061	DE039	DE061	DE039	DE061	DE039	DE061	DE039	DE061	DE040	DE040
Start Depth		2	0	0	4	7.5	0	4	0	2	0	4	0	2	0	0
End Depth		3	0.5	0.5	5	8.5	0.5	5	0.5	3	0.5	5	0.5	3	0.5	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Nitrate	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Fluoride	mg/kg	1.8 J	1.6	1.2	3.1 J	2.2 J	1.1 U	2 J	1 U	1.6 J	1.1 UJ	1.6 J	1.2 J	1.5 J	1.9	1.1 U
Cyanide	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aluminum	mg/kg	33200	14200	18600	24200	21700	21000	16500	19800	23800	19700	29700	19800	11300	17400	14000
Iron	mg/kg	42200	19600	25900	26700	27000	28000	20300	28000	33600	26100	33600	25100	16600	22500 J	20200 J
Lead	mg/kg	17	44.4	17.7	9.94	8.92	14.3 J	4.87	16.5 J	15.4	16.6 J	9.91	16 J	1.12	18.9 J	19.8 J
Lithium	mg/kg	47.2	20.3	25.3	30.6	35.7	27.9 J	22.5	27.4 J	43.5	25 J	36.2	27.3 J	20.9	20.8 J	15.5 J
Magnesium	mg/kg	10300	4130 J	5200 J	5490	5760	5570	4800	5250	8280	5090	6680	5120	4080	4620 J	3690 J
Manganese	mg/kg	736	275 J	375 J	396 J	181 J	375	264 J	364	436 J	394	300 J	377	227 J	331 J	219 J
Mercury	mg/kg	0.0056 J	0.0225 J	0.0143 J	0.109 U	0.114 U	0.0113 J	0.105 U	0.0113 J	0.108 U	0.0117 J	0.112 U	0.0101 J	0.105 U	0.0421 J	0.108 U
Molybdenum	mg/kg	0.896	1.06	0.937	0.651	0.515	1.26 J	0.576	1.11 J	0.855	1.16 J	0.654	1.23 J	0.127	0.536	0.505
Nickel	mg/kg	27.3	16.2	18.6	19.7	13.3	23.4 J	9.16	20.6 J	20.4	27.5 J	15.4	22.6 J	3.28	16.6 J	14.3 J
Potassium	mg/kg	3800	2780 J	4950 J	2960	2400	5670 J	2160	4480 J	2700	5080 J	2540	4580 J	2760	3720 J	2520 J
Silver	mg/kg	0.0181 J	0.0993 J	0.0973 J	0.0551 J	0.119	0.414 J	0.019 J	0.342 J	0.0172 J	0.0991 J	0.0945 J	0.133 J	0.107 U	0.0671 J	0.109 J
Sodium	mg/kg	197	75.6 J	83.6 J	131	132	89.2 J	122	100 J	175	78 J	129	84.5 J	103 J	125	129
Strontium	mg/kg	32.9	18.6	22.7	24.8	20.8	24.6	17	23.9	27.4	25.6	29.3	24.1	12.7	20.3 J	26.7 J
Thallium	mg/kg	0.384	0.186	0.348	0.387	0.298	0.522 J	0.216	0.435 J	0.37	0.479 J	0.292	0.491 J	0.0958 J	0.265	0.197
Tin	mg/kg	3.33 J	10.2 U	10.2 U	11.1 U	11.3 U	10.4 U	10.9 U	10.4 U	10.5 U	10.2 U	11.2 U	10.2 U	10.4 U	10 U	10.9 U
Titanium	mg/kg	1570	1130 J	1470 J	1480	1390	1510	1430	1490	1400	1480	1520	1450	1270	1430	1200
Antimony	mg/kg	0.185 J	0.353 J	0.238 J	0.129 J	0.119 J	0.392	0.1 J	0.292	0.361 J	0.233 U	0.105 J	0.403	0.214 R	0.08 J	0.221 UJ
Arsenic	mg/kg	10.7	6.41 J	7.25 J	7.16	7.8	9.4 J	5.76	9.68 J	13.5	8.4 J	8.05	10.9 J	1.51	4.13 J	3.84 J
Beryllium	mg/kg	1.39	0.618	0.841	1.08 J	0.777 J	0.893 J	0.444 J	0.852 J	1.01 J	0.838 J	0.948 J	1.03 J	0.116 J	0.552	0.489
Barium	mg/kg	192	114 J	176 J	151 J	89.5 J	120 J	57.3 J	115 J	142 J	128 J	129 J	120 J	22.5 J	113 J	84.9 J
Boron	mg/kg	28.1 U	8.17	9.25	1.76 J	1.27 J	2.74 J	5.46 U	2.45 J	1.23 J	2.87 J	1.83 J	2.49 J	5.2 U	6.67	6.95
Cadmium	mg/kg	0.106 J	0.28	0.359	0.0698 J	0.112 U	0.489 J	0.109 U	0.387 UJ	0.0859 J	0.307 UJ	0.111 U	0.468 J	0.107 U	0.316	0.138
Chromium	mg/kg	44.3	26.2	32.2	30.2 J	25.8 J	37.2 J	20.3 J	34.5 J	36.1 J	46.1 J	27.2 J	38 J	5.33 J	26.1 J	22.6 J
Cobalt	mg/kg	14	7.37 J	8.02 J	9.03	9.61	9.9 J	4.97	9.55 J	8.3	10.3 J	8.24	10.4 J	1.95	6.36 J	5.22 J
Copper	mg/kg	37	13.4	16.9	13.3 J	14.6 J	21.3 J	7.21 J	19.2 J	29.4 J	19.9 J	14.2 J	21.9 J	2.68 J	10.4	8.6
Vanadium	mg/kg	67.6	42.4 J	55.1 J	53.6 J	48.8 J	63.6 J	37.6 J	60.5 J	61.8 J	59.1 J	51.6 J	64.6 J	11.8 J	41 J	37.2 J
Zinc	mg/kg	97	105	100	76.8 J	59.3 J	146 J	43 J	140 J	102 J	118 J	62.6 J	157 J	18.4 J	103 J	76.6 J
Zirconium	mg/kg	2.49 J	1.69 J	2.3 J	1.84 J	1.98 J	1.36 J	1.91 J	4.4 J	5.25 U	1.38 J	2.13 J	1.62 J	5.2 U	3.08 J	2.36 J
Calcium	mg/kg	4930	2760 J	3280 J	2670	2820	3340	2790	3410	4540	3290	3240	3200	2390	3180 J	3050 J
Phosphorus	mg/kg	706	449	584	282 J	278 J	795 J	369 J	736 J	741 J	587 J	297 J	740 J	493 J	422 J	399 J
Selenium	mg/kg	0.381 J	0.209 J	0.181 J	0.0835 J	0.0475 J	0.21 J	0.136 J	0.169 J	0.299 J	0.225 J	0.0811 J	0.242 J	0.429 U	0.128 J	0.13 J
Chromium VI	mg/kg	0.42 J	0.66 J	0.59 J	1.1 U	1.2 U	1.1 U	1.1 U	0.42 J	1.1 U	1.1 U	1.2 U	0.47 J	1.1 U	1.1	0.73 J
Perchlorate (314.0)	ug/kg	34.8 U	31.9 U	31.6 U	34.2 U	34.5 U	31.7 U	33.4 U	31.5 U	32.8 U	31.8 U	35 U	31.7 U	32.5 U	31.5 U	33.8 U
Perchlorate (6850)	ug/kg	5.8 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Percent Moisture	%	13.7	6.1	5.2	12.4	13.1	5.3	10.2	4.7	8.4	5.7	14.2	5.3	7.6	4.8	11.2
pH	pH unit	6.91	6.4	6.79	7.18	6.62	6.77	6.74	6.82	6.66	6.65	6.47	6.56	6.58	7.05	6.86

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-5B

Sample Name		SL-133-SA5B-SS-0.0-0.5	SL-134-SA5B-SS-0.0-0.5	SL-135-SA5B-SS-0.0-0.5	SL-136-SA5B-SS-0.0-0.5	SL-137-SA5B-SS-0.0-0.5	SL-138-SA5B-SS-0.0-0.5	SL-139-SA5B-SS-0.0-0.5	SL-140-SA5B-SS-0.0-0.5	SL-141-SA5B-SS-0.0-0.5	SL-142-SA5B-SS-0.0-0.5	SL-143-SA5B-SS-0.0-0.5	SL-144-SA5B-SS-0.0-0.5	SL-145-SA5B-SB-4.0-5.0	SL-146-SA5B-SB-4.0-5.0	SL-147-SA5B-SS-0.0-0.5
Sample Date		12/15/2010	12/15/2010	12/15/2010	12/15/2010	01/06/2011	02/11/2011	12/13/2010	01/04/2011	02/11/2011	12/14/2010	12/14/2010	02/11/2011	12/22/2010	01/04/2011	12/16/2010
Lab SDG		DE040	DE040	DE040	DE040	DE054	DE081	DE036	DE052	DE081	DE038	DE038	DE081	DE051	DE052	DE042
Start Depth		0	0	0	0	0	0	0	0	0	0	0	0	4	4	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	5	5	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Nitrate	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	17.9	4.6	--
Fluoride	mg/kg	1 J	2.1	1.7	1.6	4.3 J	1.1 U	7.1 J	1.2 UJ	1.5	2.5	1.6	1.6	1.1 UJ	3 J	2.4
Cyanide	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	0.57 U	0.57 U	--
Aluminum	mg/kg	14000	14500	13000	14900	13600 J	11900	20700	10100	21900	18300	17700	12200	22700	21000	14300
Iron	mg/kg	18700 J	19300 J	20800 J	21400 J	17300	20600	25200	14500	27300	24400	22900	19300	23900 J	23000	19000
Lead	mg/kg	9.98 J	13.8 J	80.9 J	44.6 J	5.92 J	36.4 J	9.99 J	4.74 J	8.71 J	6.58	5.37	21.6 J	7.28	7.69 J	40.9 J
Lithium	mg/kg	15.8 J	19.8 J	21.3 J	17.1 J	20.7	25.9	27.4	13.5	29.5	27.2	23.8	25.2	27.5	28.4	21.8 J
Magnesium	mg/kg	3560 J	3630 J	4500 J	4070 J	3720	4810 J	5180	3180	4890 J	5400 J	4560 J	3790 J	4170 J	4750	4210
Manganese	mg/kg	211 J	213 J	250 J	216 J	251	190	349	253 J	415	339 J	306 J	202	242	380 J	211
Mercury	mg/kg	0.102 U	0.0181 J	0.186	0.0387 J	0.106 U	0.856	0.829	0.0061 J	0.0086 J	0.0042 J	0.1 U	0.074 J	0.11 U	0.0078 J	0.148
Molybdenum	mg/kg	0.419	0.575	0.507	0.477	0.606	0.453	1.26 J	0.322 J	0.497	0.518	0.558	0.393	0.526	0.824 J	1.78 J
Nickel	mg/kg	11.6 J	17.6 J	11.7 J	14.5 J	10.1	31.1	18.1 J	8.63	17.3	13.9	12.2	14.4	15.8	16.4	23.9 J
Potassium	mg/kg	2550 J	2550 J	3280 J	3240 J	3010	3070	2940	2450 J	2850	2650 J	3870 J	2470	2180 J	2720 J	2620 J
Silver	mg/kg	0.061 J	0.123	0.147	1.06	0.0301 J	0.167 J	0.0876 J	0.029 J	0.044 J	0.0225 J	0.033 J	0.233 J	0.0394 J	0.0461 J	0.228 J
Sodium	mg/kg	121	103	110	209	318	151	266	105 J	83.9 J	77.6 J	70.1 J	118	123	228	123
Strontium	mg/kg	20.4 J	15.6 J	13.8 J	25 J	21.8 J	16.3 J	22.8	14	29.1 J	18.9	17	14.5 J	25.8 J	22.5	17.4
Thallium	mg/kg	0.147	0.202	0.208	0.241	0.249 J	0.282 J	0.336	0.197	0.328 J	0.289	0.2	0.266 J	0.307	0.333	0.395 J
Tin	mg/kg	10.6 U	10.3 U	10.8 U	11 U	10.6 U	10.7 U	11.2 U	11.1 U	10.5 U	10.5 U	10.3 U	10.6 U	1.77 J	11.3 U	11.4 U
Titanium	mg/kg	1090	1130	1320	1360	1020	1060 J	1430	1020	1220 J	1380 J	1270 J	901 J	1090	1370	1120
Antimony	mg/kg	0.141 J	0.118 J	0.207 J	0.15 J	0.0756 J	0.595 J	0.219 R	0.229 UJ	0.126 J	0.125 J	0.0659 J	0.194 J	0.227 UJ	0.226 UJ	0.319 UJ
Arsenic	mg/kg	2.81 J	4.77 J	4 J	4.75 J	3.85 J	3.47	7.15 J	3.13 J	5.93	6.72 J	4.52 J	5.54	5.98 J	7.47 J	9.55 J
Beryllium	mg/kg	0.35	0.556	0.455	0.504	0.561 J	0.58	0.869 J	0.339 J	0.767	0.664	0.62	0.624	0.852	0.852 J	0.926 J
Barium	mg/kg	58.2 J	72.6 J	66.1 J	144 J	107 J	91.5 J	150 J	85.4	147 J	116 J	90.8 J	95.2 J	125 J	118	176 J
Boron	mg/kg	5.69	4.96 J	5.53	4.64 J	4.05 J	2.91 J	5.59	5.57 U	3.59 J	7.44	8.39	3.11 J	16.4	1.42 J	4.18 J
Cadmium	mg/kg	0.14	0.18	0.296	0.351	0.165	1.44 J	0.2 J	0.227	0.263 J	0.12	0.0929 J	0.574 J	0.191	0.0987 J	0.806 J
Chromium	mg/kg	14.1 J	28.1 J	16.9 J	25 J	16.5 J	63.3 J	30.4 J	13.7 J	24.2 J	24.4	20.1	20.5 J	24 J	26.3 J	36.7 J
Cobalt	mg/kg	3.76 J	5.29 J	4.26 J	5.6 J	5.03	7.34 J	8.2 J	4.85 J	6.96 J	6.99 J	5.26 J	6.13 J	5.32 J	6.95 J	10.9 J
Copper	mg/kg	6.61	8.6	8.59	11.9	11.2 J	53.5 J	13.1 J	9.26 J	11.3 J	9.29	9.59	13.9 J	12 J	9.78 J	20.3 J
Vanadium	mg/kg	30.1 J	37 J	29.7 J	38.4 J	33.9 J	40.4 J	56	33.8 J	46.3 J	46.6 J	36 J	39.3 J	52.1 J	55.4 J	63.6 J
Zinc	mg/kg	91.5 J	66.3 J	105 J	145 J	60.1 J	162	77.3	72.1	68.5	61.6	57.2	154	59.7	63.7	161 J
Zirconium	mg/kg	1.92 J	1.38 J	1.84 J	1.39 J	1.62 J	5.35 U	3.64 J	1.26 J	5.27 U	1.88 J	1.72 J	5.29 U	2.17 J	2.27 J	1.47 J
Calcium	mg/kg	3070 J	2490 J	2960 J	4040 J	2760	4520 J	4280	2430	3290 J	3390 J	2770 J	3130 J	2780 J	3460	4340
Phosphorus	mg/kg	412 J	330 J	414 J	791 J	343	508 J	331	335 J	295 J	487	778	391 J	246 J	343 J	420 J
Selenium	mg/kg	0.125 J	0.101 J	0.0906 J	0.104 J	0.144 J	0.171 J	0.152 J	0.115 J	0.139 J	0.144 J	0.112 J	0.197 J	0.453 U	0.155 J	0.143 J
Chromium VI	mg/kg	1.1	0.5 J	2	2.4	0.23 J	1.1	0.59 J	0.37 J	0.63 J	1.1 U	1 U	0.55 J	0.41 J	0.48 J	1.1
Perchlorate (314.0)	ug/kg	32.2 U	31.5 U	33.3 U	32.9 U	33.1 U	33 U	34.2 U	34.8 U	32.2 U	32 U	31.2 U	33 U	34.3 U	34.6 U	34.3 U
Perchlorate (6850)	ug/kg	--	--	5.6 U	--	--	5.5 U	--	--	--	--	--	--	--	--	--
Percent Moisture	%	6.8	4.9	10	8.8	9.3	9.2	12.2	13.7	6.9	6.2	3.7	9.1	12.6	13.4	12.6
pH	pH unit	7.25	6.74	6.33	7.62	4.98	7.88	7.99	7.44	7.65	7.67	7.15	7.61	5.91	6.57	7.84

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-5B

Sample Name		SL-148-SA5B-SB-4.0-5.0	SL-149-SA5B-SS-0.0-0.5	SL-149-SA5B-SB-3.5-4.5	SL-150-SA5B-SS-0.0-0.5	SL-150-SA5B-SB-4.0-5.0	SL-151-SA5B-SB-4.0-5.0	SL-151-SA5B-SB-7.0-8.0	SL-152-SA5B-SB-4.0-5.0	SL-152-SA5B-SB-9.0-10.0	SL-153-SA5B-SS-0.0-0.5	SL-153-SA5B-SB-4.0-5.0	SL-154-SA5B-SB-4.0-5.0	SL-155-SA5B-SS-0.0-0.5	SL-155-SA5B-SB-3.5-4.5	SL-156-SA5B-SS-0.0-0.5
Sample Date		01/25/2011	12/15/2010	01/25/2011	12/15/2010	01/25/2011	01/24/2011	01/24/2011	01/24/2011	01/24/2011	12/15/2010	01/24/2011	01/24/2011	12/15/2010	01/24/2011	12/15/2010
Lab SDG		DE068	DE040	DE068	DE040	DE068	DE067	DE067	DE067	DE067	DE040	DE067	DE067	DE040	DE067	DE040
Start Depth		4	0	3.5	0	4	4	7	4	9	0	4	4	0	3.5	0
End Depth		5	0.5	4.5	0.5	5	5	8	5	10	0.5	5	5	0.5	4.5	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Nitrate	mg/kg	3.1	--	--	--	--	--	--	--	--	--	--	4.3	--	1.7 U	--
Fluoride	mg/kg	1.6	1.3	5.6	2	2.6	1.5	2.7	1.6	2.6	2.2	3.3	4.6	2.5	1.7	2.1
Cyanide	mg/kg	0.57 U	--	--	--	--	--	--	--	--	--	--	0.57 U	--	0.54 U	--
Aluminum	mg/kg	12100	16000	12900	19500	21100	25300	19200	26100	17500	18300	14300	19700	19300	11600	17200
Iron	mg/kg	18900 J	22600 J	20000 J	25100 J	26400 J	25500 J	23600 J	27200 J	22800 J	21400 J	20300 J	19900 J	25700 J	23900 J	22300 J
Lead	mg/kg	4.49 J	14.4 J	3.68 J	18.1 J	4.93 J	6.94 J	4.43 J	6.91 J	15.2 J	32.4 J	5.35 J	4.69 J	6.9 J	8.9 J	43 J
Lithium	mg/kg	19.4	21.9 J	20.2	27.3 J	26.2	34.8	35.3	30.3	30.6	17.3 J	21.2	21.5	24.4 J	21.6	19.5 J
Magnesium	mg/kg	3340	4170 J	4340	5180 J	4000	4390	4250	4270	4380	4110 J	3640	2730	4760 J	4200	4010 J
Manganese	mg/kg	136	294 J	305	286 J	629	303	178	383	185	274 J	185	258	331 J	485	371 J
Mercury	mg/kg	0.109 U	0.0199 J	0.101 U	0.0135 J	0.0084 J	0.0124 J	0.0055 J	0.0063 J	0.0051 J	0.0513 J	0.108 U	0.0072 J	0.0084 J	0.106 U	0.088 J
Molybdenum	mg/kg	0.294 J	1.07	0.278 J	0.997	0.424 J	0.561 J	0.192 J	0.621 J	0.422 J	0.509	0.358 J	0.248 J	0.561	0.573 J	0.983
Nickel	mg/kg	8.25 J	22.3 J	9.35 J	21.9 J	12.3 J	16.1 J	12.2 J	16.2 J	15.7 J	16 J	10.9 J	8.88 J	13.3 J	12.5 J	14.6 J
Potassium	mg/kg	990 J	3020 J	1960 J	3360 J	1500 J	1850 J	2080 J	2170 J	1820 J	3000 J	1680 J	1080 J	3820 J	2060 J	3620 J
Silver	mg/kg	0.0194 J	0.0767 J	0.104 U	0.0714 J	0.0488 J	0.0429 J	0.1 J	0.0449 J	0.0824 J	0.108 J	0.0132 J	0.0519 J	0.0459 J	0.11 U	0.129
Sodium	mg/kg	112	122	604	117	278	117	120	128	87.9 J	121	163	159	107	140	110
Strontium	mg/kg	18.5	18.8 J	21.1	20.1 J	23.3	23.6	22.4	25.6	21.5	26.8 J	16.5	18.7	25 J	17.9	22.1 J
Thallium	mg/kg	0.21 J	0.262	0.226 J	0.233	0.199 J	0.294 J	0.226 J	0.263 J	0.302 J	0.232	0.265 J	0.163 J	0.2	0.381 J	0.247
Tin	mg/kg	11.2 U	10.3 U	10.6 U	10.3 U	10.9 U	11.3 U	11.4 U	11.4 U	11.2 U	11.1 U	10.8 U	11.4 U	10.3 U	10.9 U	10.6 U
Titanium	mg/kg	1190 J	1310	1160 J	1260	1070 J	1220 J	1150 J	1230 J	1200 J	1260	1150 J	923 J	1440	1170 J	1340
Antimony	mg/kg	0.227 UJ	0.0979 J	0.208 UJ	0.139 J	0.221 UJ	0.222 UJ	0.224 UJ	0.228 UJ	0.228 UJ	0.143 J	0.213 UJ	0.223 UJ	0.148 J	0.221 UJ	0.115 J
Arsenic	mg/kg	5.68 J	5.28 J	6.73 J	5.71 J	4.93 J	5.7 J	5.03 J	5.67 J	8.16 J	4.42 J	9.06 J	4.37 J	4.13 J	11.6 J	4.15 J
Beryllium	mg/kg	0.458	0.554	0.567	0.635	0.679	0.795	0.578	0.8	0.866	0.567	0.532	0.603	0.526	0.961	0.551
Barium	mg/kg	58.8	83.5 J	82.1	96.5 J	94.9	118	68.1	130	78.8	97.2 J	60	61.5	84.6 J	81.1	96.7 J
Boron	mg/kg	1.16 J	5.93	5.3 U	5.99	1.93 J	2.11 J	1.72 J	2.27 J	1.34 J	6.46	5.42 U	1.72 J	5.26	1.06 J	7.79
Cadmium	mg/kg	0.0476 J	0.365	0.0603 J	0.286	0.0694 J	0.0687 J	0.047 J	0.0602 J	0.0787 J	0.296	0.106 U	0.112 U	0.121	0.0702 J	4.35
Chromium	mg/kg	15.3 J	36.3 J	14.3 J	34.9 J	18.2 J	22.8 J	18.9 J	23.1 J	22.6 J	25.1 J	15.8 J	16.2 J	22.3 J	16.5 J	25.9 J
Cobalt	mg/kg	3.4 J	6.07 J	5.49 J	6.56 J	4.07 J	7.01 J	3.65 J	6.42 J	5.47 J	6.13 J	6.59 J	2.84 J	4.68 J	9.59 J	5.49 J
Copper	mg/kg	6.23	10.8	6.37	11.2	7.68	7.45	8.83	8.4	13.9	11	7.91	6.01	8.75	11.4	18.5
Vanadium	mg/kg	35.4 J	37.8 J	30.7 J	43.8 J	34.7 J	42.6 J	33.7 J	43.2 J	46.5 J	41.9 J	33 J	31.4 J	32 J	39.4 J	35.9 J
Zinc	mg/kg	34.4	289 J	51.1	91.7 J	43.1	46.9	49.2	51.2	59.8	84.1 J	53.8	29	50.5 J	68.1	69.1 J
Zirconium	mg/kg	5.61 U	1.39 J	5.3 U	0.993 J	5.47 U	5.66 U	5.72 U	2.88 J	5.59 U	2 J	5.42 U	2.71 J	1.99 J	5.47 U	2.6 J
Calcium	mg/kg	1950 J	3370 J	2210 J	3330 J	2260 J	2950 J	3510 J	2920 J	3260 J	3630 J	2560 J	1940 J	3280 J	2370 J	3270 J
Phosphorus	mg/kg	98.8 J	382 J	283 J	369 J	194 J	186 J	269 J	230 J	206 J	336 J	192 J	117 J	483 J	331 J	310 J
Selenium	mg/kg	0.0515 J	0.13 J	0.0567 J	0.143 J	0.442 U	0.0857 J	0.449 U	0.117 J	0.0657 J	0.117 J	0.0863 J	0.0521 J	0.0925 J	0.148 J	0.0985 J
Chromium VI	mg/kg	0.36 J	0.59 J	1.1 U	0.82 J	0.28 J	0.45 J	0.37 J	0.52 J	0.32 J	1.4	0.26 J	0.35 J	0.47 J	0.27 J	1.6
Perchlorate (314.0)	ug/kg	34.3 U	31.3 U	31.8 U	31.6 U	33.8 U	34.6 U	34.7 U	34.9 U	34.9 U	34.6 U	33.2 U	34.1 U	31.3 U	33.8 U	32.2 U
Perchlorate (6850)	ug/kg	--	--	--	5.3 U	--	--	5.8 U	--	--	--	--	--	--	--	--
Percent Moisture	%	12.6	4.2	5.6	5	11.3	13.4	13.5	14	14	13.2	9.6	12.1	4.3	11.2	6.9
pH	pH unit	6.6	7.48	7.8	7.69	7.28	7.26	7.2	6.28	6.97	6.84	7.83	8	6.82	7.11	8.03

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-5B

Sample Name		SL-156-SA5B-SB-4.0-5.0	SL-157-SA5B-SB-4.0-5.0	SL-157-SA5B-SB-9.0-10.0	SL-158-SA5B-SB-4.0-5.0	SL-159-SA5B-SS-0.0-0.5	SL-159-SA5B-SB-4.0-5.0	SL-159-SA5B-SB-8.0-9.0	SL-160-SA5B-SS-0.0-0.5	SL-160-SA5B-SB-4.0-5.0	SL-161-SA5B-SS-0.0-0.5	SL-161-SA5B-SB-4.0-5.0	SL-162-SA5B-SS-0.0-0.5	SL-162-SA5B-SB-4.0-5.0	SL-163-SA5B-SB-3.5-4.5	SL-164-SA5B-SB-4.0-5.0
Sample Date		01/25/2011	12/22/2010	12/22/2010	12/22/2010	12/21/2010	02/04/2011	02/04/2011	12/17/2010	02/07/2011	12/17/2010	02/07/2011	12/17/2010	02/07/2011	02/07/2011	02/08/2011
Lab SDG		DE068	DE051	DE051	DE051	DE049	DE076	DE076	DE044	DE077	DE044	DE077	DE044	DE077	DE077	DE078
Start Depth		4	4	9	4	0	4	8	0	4	0	4	0	4	3.5	4
End Depth		5	5	10	5	0.5	5	9	0.5	5	0.5	5	0.5	5	4.5	5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Nitrate	mg/kg	2.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Fluoride	mg/kg	4.1	3.7 J	3.1 J	1.4 J	1.5 J	1.2 J	2 J	3.1 J	1.7 J	2.8 J	1.2 J	6 J	1.6 J	1.2 J	1.3
Cyanide	mg/kg	0.56 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aluminum	mg/kg	16800	15000	16800	14700	15600	21200 J	15500 J	26900	17400	16900	23900	26800	23700	20500	13700
Iron	mg/kg	22200 J	19000 J	17900 J	18700 J	20000	28300	17800	31000	20500	22500	27400	32300	27700	22900	19200
Lead	mg/kg	7.53 J	5.81	6.86	6.78	9.06 J	5.82 J	3.11 J	11.6	5.45	15	7.45	21.4	6.56	7	9.18
Lithium	mg/kg	21.8	22.5	19.5	22.7	19.9 J	36.1 J	35.8 J	39.2	21.9	30.8	27.1	44.6	31.6	23	23.7
Magnesium	mg/kg	3680	4010 J	3380 J	3790 J	3970	5550 J	5130 J	7910	4150	5130	4610	7670	5420	4270	3800
Manganese	mg/kg	177	287	268	300	358	245	164	330	200	292	341	424	199	248	313
Mercury	mg/kg	0.0121 J	0.0042 J	0.106 U	0.0048 J	0.0229 J	0.0054 J	0.019 J	0.0279 J	0.107 U	0.126	0.106 U	0.0815 J	0.0122 J	0.0058 J	0.0256 J
Molybdenum	mg/kg	0.274 J	0.668	0.629	0.609	0.773 J	0.246	0.218	0.546	0.268	0.875	0.628	1.31	0.371	0.567	0.546
Nickel	mg/kg	11.4 J	11.9	14.1	13.6	16.2	13.1	10.9	29.5 J	13.7 J	16.4 J	13.4 J	26.5 J	13.5 J	13.5 J	11.2 J
Potassium	mg/kg	1400 J	2800 J	2390 J	3350 J	3810	2030	3130	4130	1620 J	3670	1860 J	4610	1460 J	1840 J	2870 J
Silver	mg/kg	0.0184 J	0.0237 J	0.0339 J	0.0396 J	2.44	0.0965 J	0.241	8.66 J	0.767	63.8 J	0.873	38.1 J	3.05	1.84	5.94
Sodium	mg/kg	111	113	96.7 J	111	74.8 J	110 J	123	116	127	91.5 J	140	150	281	121	78.1 J
Strontium	mg/kg	21.8	14.9 J	19.5 J	15.6 J	19.8	23.5	13.1	29.5	18.2	24.5	22	50.5	30.1	21	15.1
Thallium	mg/kg	0.243 J	0.264	0.311	0.286	0.348	0.232 J	0.239 J	0.294	0.233	0.257	0.235	0.311	0.23	0.223	0.21
Tin	mg/kg	11.1 U	2.24 J	2.36 J	2.35 J	11.1 U	11.2 U	12.2 U	10.8 U	10.8 U	11.4 U	10.8 U	11.7 U	10.9 U	10.6 U	10.6 U
Titanium	mg/kg	1010 J	1010	1020	1050	1220	1540	1330	1500	1060	1340	1280	1570	1310	1200	1070
Antimony	mg/kg	0.222 UJ	0.213 UJ	0.214 UJ	0.22 UJ	0.0779 J	0.105 J	0.1 J	0.212 UJ	0.126 J	0.082 J	0.0919 J	0.121 J	0.121 J	0.128 J	0.0952 J
Arsenic	mg/kg	7.16 J	4.63 J	5.63 J	5.34 J	10 J	10.7 J	9.89 J	8.14	5.96	5.34	7.03	8.65	6.79	6.98	7.8
Beryllium	mg/kg	0.642	0.576	0.738	0.631	0.692	0.628 J	0.442 J	0.768 J	0.586	0.538 J	0.745	0.79 J	0.653	0.688	0.417
Barium	mg/kg	72.6	89.8 J	107 J	97.7 J	134	93.9	50.5	94.1	76.2 J	83.4	107 J	114	81.3 J	110 J	70.7
Boron	mg/kg	1.77 J	3.7 J	3.9 J	3.92 J	6.16	5.61 U	1.09 J	3.59 J	5.41 U	6.34	5.42 U	8.33	5.47 U	5.28 U	5.29 U
Cadmium	mg/kg	0.149	0.139	0.128	0.183	0.317	0.0617 J	0.122 U	0.424 J	0.117	1.12 J	0.105 J	1.62 J	0.172	0.149	0.379
Chromium	mg/kg	20.3 J	17.8 J	20.2 J	18.5 J	22.4 J	23.1 J	19.1 J	41 J	20.9 J	36.5 J	21.5 J	44.9 J	24.3 J	21.9 J	18.9 J
Cobalt	mg/kg	5.05 J	5.81 J	7.28 J	7.13 J	7.05 J	4.78 J	2.96 J	7.28 J	4.44	5.45 J	6.48	7.3 J	4.29	5.51	5.12
Copper	mg/kg	7.49	9.36 J	11.5 J	11.1 J	12.2 J	7.69 J	6.65 J	20.2 J	7.54 J	16.7 J	8.48 J	40.3 J	9.81 J	8.33 J	8.64 J
Vanadium	mg/kg	34.8 J	41.5 J	43.5 J	38.5 J	45.5	39.7 J	26.2 J	44.7 J	35	27.7 J	40.5	40.7 J	39	39.4	27.7
Zinc	mg/kg	44.7	52.8	49.9	61.4	63.9	45.2	53.3	80.1	44.6	96.1	47.4	160	50.4	56.4	62.6
Zirconium	mg/kg	5.55 U	1.84 J	2.05 J	2.09 J	1.43 J	5.61 U	6.11 U	2.37 J	5.41 U	1.35 J	5.42 U	1.85 J	2.96 J	5.28 U	5.29 U
Calcium	mg/kg	2610 J	2180 J	2050 J	1970 J	2230 J	2970	2830	4180	2400	3870	2510	8340	4140	2410	2040
Phosphorus	mg/kg	397 J	391 J	246 J	397 J	327	133 J	373 J	486	224 J	455	255 J	636	183 J	214 J	347 J
Selenium	mg/kg	0.095 J	0.426 U	0.429 U	0.439 U	0.185 J	0.445 U	0.488 U	0.11 J	0.0841 J	0.208 J	0.0823 J	0.271 J	0.0529 J	0.122 J	0.134 J
Chromium VI	mg/kg	0.42 J	0.4 J	0.5 J	0.51 J	0.39 J	1.1 U	1.2 U	0.77 J	1.4	3.4	1.1 U	0.76 J	0.29 J	1.1	0.39 J
Perchlorate (314.0)	ug/kg	34 U	32.9 U	33.4 U	33.3 U	35 U	34 U	36.6 U	33.3 U	33.1 U	36 U	33.2 U	36 U	33.8 U	32.3 U	32.4 U
Perchlorate (6850)	ug/kg	--	--	--	5.5 U	--	--	--	--	--	--	--	--	--	--	--
Percent Moisture	%	11.7	8.9	10.3	9.8	14.2	11.8	18.1	10	9.4	16.6	9.6	16.7	11.3	7.2	7.4
pH	pH unit	6.66	7.66	8.02	6.33	7	6.86	7.74	7.26	6.74	6.72	6.62	7.5	6.72	6.77	6.63

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-5B

Sample Name		SL-165-SA5B-SB-4.0-5.0	SL-166-SA5B-SS-0.0-0.5	SL-168-SA5B-SB-4.0-5.0	SL-169-SA5B-SS-0.0-0.5	SL-172-SA5B-SS-0.0-0.5	SL-172-SA5B-SB-2.0-3.0	SL-173-SA5B-SS-0.0-0.5	SL-173-SA5B-SB-2.0-3.0	SL-175-SA5B-SB-4.0-5.0	SL-176-SA5B-SS-0.0-0.5	SL-176-SA5B-SB-4.0-5.0	SL-177-SA5B-SB-4.0-5.0	SL-178-SA5B-SS-0.0-0.5	SL-178-SA5B-SB-4.0-5.0	SL-179-SA5B-SB-4.0-5.0
Sample Date		02/04/2011	12/17/2010	02/08/2011	12/16/2010	12/16/2010	02/02/2011	12/16/2010	02/02/2011	01/31/2011	12/16/2010	01/31/2011	01/31/2011	12/16/2010	01/28/2011	01/28/2011
Lab SDG		DE076	DE044	DE078	DE042	DE042	DE085	DE042	DE085	DE074	DE042	DE074	DE074	DE042	DE071	DE071
Start Depth		4	0	4	0	0	2	0	2	4	0	4	4	0	4	4
End Depth		5	0.5	5	0.5	0.5	3	0.5	3	5	0.5	5	5	0.5	5	5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Nitrate	mg/kg	--	--	3.9	--	--	--	--	--	--	--	--	--	--	--	--
Fluoride	mg/kg	2 J	2.5 J	3.5	1.6	0.95 J	2	1.7	2.6 J	2.1 J	1.6	2.7 J	3.7 J	1.6 J	2.5 J	2.2 J
Cyanide	mg/kg	--	--	0.55 U	--	--	--	--	--	--	--	--	--	--	--	--
Aluminum	mg/kg	18100 J	16000	19000	15700	15800	10100 J	14700	12300 J	17100 J	11600	27500 J	26200 J	21300	23100	19000
Iron	mg/kg	20600	20400	21700	20200	18900	20900 J	18400	23800 J	23400 J	19600	28100 J	29300 J	26000	30000	23400
Lead	mg/kg	7.29 J	9.35	6.76	21.2 J	18.6 J	3.5	16.3 J	4.17	8.69	37.6 J	8.82	9.66	101 J	7.12 J	7.4 J
Lithium	mg/kg	22.8 J	24.6	23.9	22.7 J	18.7 J	24.9 J	18.9 J	36.6 J	20.4 J	13.7 J	36.8 J	42 J	27.2 J	33.8	24.5
Magnesium	mg/kg	3850 J	4320	3950	4380	3600	4790 J	3560	5700 J	4460 J	3710	4950 J	5570 J	5300	5140	4460
Manganese	mg/kg	208	290	287	325	271	250 J	307	328 J	324 J	294	252 J	413 J	395	289	294
Mercury	mg/kg	0.0071 J	0.01 J	0.0043 J	0.0119 J	0.101 U	0.0049 J	0.0053 J	0.005 J	0.0139 J	0.0109 J	0.0153 J	0.0176 J	0.197	0.115 U	0.114 U
Molybdenum	mg/kg	0.795	0.558	0.48	1.12 J	1.13 J	0.292	1.16 J	0.349	0.343	0.811 J	0.293	0.195	2.46 J	0.239	0.449
Nickel	mg/kg	13.3	16.5 J	12.8 J	19.9 J	19.3 J	12.2	18.7 J	12.6	9.05	12.5 J	18.5	17.8	35 J	15.9 J	13 J
Potassium	mg/kg	3480	3430	2260 J	3530 J	3250 J	2260 J	3340 J	2330 J	2150 J	3470 J	1610 J	1860 J	3930 J	1630 J	2120 J
Silver	mg/kg	0.0937 J	2.55 J	0.642	0.249 J	0.0762 J	0.106 U	0.093 J	0.108 U	0.048 J	0.123 J	0.106 J	0.139	1.9 J	0.0518 J	0.0441 J
Sodium	mg/kg	90.7 J	84.6 J	201	105 J	72.7 J	89 J	79.3 J	187	150	114	117	163	129	123	83.1 J
Strontium	mg/kg	24.5	19.3	23.9	23.5	21.5	16.6 J	20.8	22.2 J	48.9 J	20.3	27.2 J	36.3 J	28.4	25.8	26
Thallium	mg/kg	0.286 J	0.213	0.254	0.446 J	0.442 J	0.207	0.448 J	0.241	0.154	0.314 J	0.216	0.262	0.503 J	0.271	0.26
Tin	mg/kg	10.9 U	10.4 U	11.2 U	11 U	10.6 U	10.7 U	10.4 U	11 U	11.3 U	10 U	11.2 U	11.6 U	12.5 U	11.6 U	11.6 U
Titanium	mg/kg	1250	1240	1180	1210	1180	1410 J	1140	1380 J	1160 J	1200	1260 J	1280 J	1480	1360	1320
Antimony	mg/kg	0.114 J	0.0679 J	0.129 J	0.235 UJ	0.213 UJ	0.128 J	0.216 UJ	0.108 J	0.229 UJ	0.21 UJ	0.108 J	0.139 J	0.533 J	0.227 UJ	0.224 UJ
Arsenic	mg/kg	5.52 J	5.22	6.24	10.7 J	12.2 J	17.1	11.2 J	13.2	4.98	4.93 J	5.7	7.81	8.88 J	7.32 J	5.61 J
Beryllium	mg/kg	0.622 J	0.513 J	0.684	0.922 J	0.925 J	0.396	0.893 J	0.54	0.414	0.495 J	0.889	0.897	1.03 J	0.791	0.681
Barium	mg/kg	103	85.4	90.1	161 J	158 J	81.7	155 J	80.7	112	169 J	126	134	202 J	111	106
Boron	mg/kg	2.12 J	4.8 J	1.13 J	6.43	4.12 J	5.36 U	3.94 J	5.51 U	5.66 U	3.62 J	5.61 U	1.6 J	5.32 J	2.24 J	2.31 J
Cadmium	mg/kg	0.23	0.231 J	0.147	0.562 J	0.326 J	0.106 U	0.345 J	0.108 U	0.184	0.506 J	0.201	0.194	2.39 J	0.114 U	0.112 U
Chromium	mg/kg	20.3 J	20 J	21.3 J	32.2 J	32.1 J	16.9	30 J	17	16.3	20.5 J	27	25.7	54.6 J	22.5	20.9
Cobalt	mg/kg	6.66 J	5.02 J	5.73	8.98 J	8.47 J	4.98	8.4 J	5.67	5.4	7.07 J	11.5	7.18	13.1 J	6.88 J	5.99 J
Copper	mg/kg	11 J	12.4 J	7.94 J	16.4 J	13.8 J	6.35	13.6 J	7.6	8.05	13.2 J	7.9	10.7	32 J	8.43 J	9.33 J
Vanadium	mg/kg	37 J	28.9 J	39.9	57.4 J	55.2 J	34.8	53.7 J	32.9	40.4	53.2 J	42.7	46.5	69.8 J	46.9	39.6
Zinc	mg/kg	55.1	60.1	45.9	127 J	84.3 J	56.5 J	99.2 J	58.7 J	43.3 J	110 J	51.2 J	58.2 J	474 J	48.6	49.3
Zirconium	mg/kg	5.44 U	1.08 J	5.59 U	1.96 J	1.11 J	5.36 U	1.53 J	5.51 U	3.93 J	1.27 J	5.61 U	5.78 U	1.36 J	2.82 J	5.81 U
Calcium	mg/kg	2600	3040	2530	4530	2300	3030 J	2350	2780 J	26100 J	7210	4560 J	7280 J	4530	3720	2840
Phosphorus	mg/kg	355 J	472	187 J	444 J	309 J	491 J	290 J	355 J	344 J	522 J	123 J	186 J	500 J	169	230
Selenium	mg/kg	0.136 J	0.116 J	0.151 J	0.132 J	0.119 J	0.163 J	0.118 J	0.108 J	0.0772 J	0.0667 J	0.0727 J	0.0608 J	0.183 J	0.059 J	0.118 J
Chromium VI	mg/kg	0.36 J	0.66 J	0.39 J	1.9	0.32 J	0.76 J	0.4 J	1.1 U	0.3 J	0.9 J	0.23 J	1.2 U	1.9	0.65 J	0.47 J
Perchlorate (314.0)	ug/kg	33.6 U	31.3 U	33.5 U	34 U	31.8 U	32.5 U	32 U	33.4 U	34.3 U	31.5 U	34.7 U	35 U	38.5 U	34.8 U	34.9 U
Perchlorate (6850)	ug/kg	5.6 U	--	--	--	--	--	--	--	--	--	5.8 U	5.8 U	--	--	5.8 U
Percent Moisture	%	10.7	4.1	10.5	11.8	5.6	7.6	6.2	10.1	12.6	4.9	13.5	14.4	22.1	13.7	14
pH	pH unit	6.9	7.13	6.85	7.82	6.02	7.34	6.67	7.99	8.36	7.84	7.32	7.88	7.36	7.48	6.94

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-5B

Sample Name		SL-179-SA5B-SB-7.0-8.0	SL-180-SA5B-SB-4.0-5.0	SL-180-SA5B-SB-9.0-10.0	SL-181-SA5B-SS-0.0-0.5	SL-181-SA5B-SB-4.0-5.0	SL-182-SA5B-SB-4.0-5.0	SL-183-SA5B-SS-0.0-0.5	SL-183-SA5B-SB-4.0-5.0	SL-184-SA5B-SB-3.0-4.0	SL-185-SA5B-SB-4.0-5.0	SL-186-SA5B-SS-0.0-0.5	SL-186-SA5B-SB-4.0-5.0	SL-187-SA5B-SS-0.0-0.5	SL-187-SA5B-SB-4.0-5.0	SL-188-SA5B-SB-4.0-5.0
Sample Date		01/28/2011	01/26/2011	01/26/2011	12/15/2010	01/27/2011	01/31/2011	12/21/2010	01/28/2011	01/28/2011	01/27/2011	12/16/2010	01/27/2011	12/16/2010	02/01/2011	02/01/2011
Lab SDG		DE071	DE069	DE069	DE040	DE070	DE073	DE049	DE071	DE071	DE070	DE042	DE070	DE042	DE072	DE072
Start Depth		7	4	9	0	4	4	0	4	3	4	0	4	0	4	4
End Depth		8	5	10	0.5	5	5	0.5	5	4	5	0.5	5	0.5	5	5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Nitrate	mg/kg	--	4.1	1.3 J	--	1.9	1.6 J	2.6	4.6	4.3	6.8	--	--	--	--	--
Fluoride	mg/kg	1.3 J	3.2	2.5	2.7	4.2	2.4 J	2 J	1.2 J	2.3 J	9.9	3.5 J	14.7	2.4 J	11.5 J	4.7 J
Cyanide	mg/kg	--	0.55 U	0.56 U	--	0.57 U	0.57 U	0.59 U	0.54 U	0.57 U	0.57 U	--	--	--	--	--
Aluminum	mg/kg	17700	23300	30500	16900	25300	24200	15900	14600	20500	18300	18400	23200	13600	13400	20200
Iron	mg/kg	25000	24800	47200	20000 J	29600	29600	38200	17300	24000	24900	21200	25200	17200	22300	24200
Lead	mg/kg	4.68 J	6.59	12.4	12.8 J	6.57 J	8.56 J	12.9 J	5.77 J	9.83 J	7.59 J	27.1 J	5.96 J	19.9 J	4.26 J	5.17 J
Lithium	mg/kg	24	24.6	53.9	17.3 J	33.6	30.1	19.9 J	13.2	25.3	25.1	24.6 J	30.5	18.3 J	25.3	44.2
Magnesium	mg/kg	4910	4070	9520	3340 J	6010	5550	4400	2950	4510	4880	4250	4740	3790	5290	5460
Manganese	mg/kg	136	242	313	327 J	357 J	1010 J	321	337	270	283 J	311	136 J	288	214	189
Mercury	mg/kg	0.0047 J	0.0034 J	0.0265 J	0.0128 J	0.112 U	0.107 U	0.0361 J	0.11 U	0.0081 J	0.127	0.0212 J	0.107 U	0.013 J	0.103 U	0.106 U
Molybdenum	mg/kg	0.129	0.411	0.287	0.733	0.27	0.353	0.855 J	0.436	0.484	1.01	1.08 J	0.218	1.26 J	0.357	0.367
Nickel	mg/kg	9.98 J	13.3	26.7	15.1 J	17.6 J	18.9 J	15.9	10.8 J	13.9 J	12.1 J	21.2 J	11.2 J	22.2 J	10.6 J	19.1 J
Potassium	mg/kg	1440 J	1830	2290	3310 J	1680 J	1820	3220	2640 J	2580 J	2840 J	2940 J	1430 J	2560 J	2130	1420
Silver	mg/kg	0.0659 J	0.0391 J	0.228	0.0727 J	0.0717 J	0.0374 J	0.0498 J	0.0229 J	0.0643 J	0.0568 J	0.119 J	0.0558 J	0.0889 J	0.104 U	0.0798 J
Sodium	mg/kg	96.4 J	290	280	102 J	222	177	91.7 J	74.4 J	123	109 J	104 J	941	110	1190	511
Strontium	mg/kg	29	26	70.9	25.5 J	36	30.3	26.2	21.7	27.3	25.9	23.7	36.3	20.6	29.6	38
Thallium	mg/kg	0.229	0.275	0.491	0.264	0.285	0.263	0.341	0.271	0.275	0.296	0.426 J	0.267	0.408 J	0.219	0.243
Tin	mg/kg	11.1 U	11 U	11.4 U	10.7 U	11 U	11.4 U	11.9 U	11.1 U	11.6 U	11.3 U	10.5 U	10.7 U	10.5 U	10.4 U	10.9 U
Titanium	mg/kg	1370	1290	2010	1300	1320	1320	1190	1140	1350	1260	1270	1090	1120	1410	1370
Antimony	mg/kg	0.22 UJ	0.225 UJ	0.223 UJ	0.175 J	0.129 J	0.156 J	0.122 J	0.226 UJ	0.229 UJ	0.0996 J	0.222 UJ	0.0741 J	0.212 UJ	0.0774 J	0.138 J
Arsenic	mg/kg	4.18 J	5.3	11.1	5.38 J	6.94 J	8.11	8.47 J	3.98 J	6.17 J	7.08 J	16.4 J	5.13 J	8.93 J	7.1 J	6.5 J
Beryllium	mg/kg	0.595	0.771	1.17	0.656	0.871	0.967	0.862	0.571	0.752	0.7	0.995 J	0.772	0.866 J	0.632	0.609
Barium	mg/kg	81.9	115	139	113 J	132 J	132	137	91.5	111	131 J	177 J	65.1 J	148 J	113 J	88.2 J
Boron	mg/kg	1.39 J	1.33 J	28.4 U	6.21	1.11 J	5.71 U	5.94 U	2.44 J	2.03 J	1.82 J	4.32 J	0.999 J	3.97 J	5.19 U	1.23 J
Cadmium	mg/kg	0.11 U	0.0822 J	0.239	0.242	0.0975 J	0.0999 J	0.23	0.113 U	0.114 U	0.209	0.283 J	0.0649 J	0.356 J	0.104 U	0.109 U
Chromium	mg/kg	20.3	22.1 J	39.4 J	24 J	27.7 J	26.1 J	24.2 J	15.8	23.4	22.7 J	34.6 J	22.2 J	32.7 J	16.1 J	30.1 J
Cobalt	mg/kg	3.44 J	7.01	8.54	6.23 J	6.4 J	7.72 J	6.99 J	5.5 J	5.84 J	6.46 J	9.1 J	3.71 J	9.7 J	5.19 J	5.37 J
Copper	mg/kg	8.68 J	8.59 J	21.1 J	11.3	9.56 J	9.77 J	12.7 J	9.46 J	10.5 J	9.95 J	14.7 J	7.98 J	13.7 J	6.64	9.37
Vanadium	mg/kg	36.1	40.6	54.5	40.9 J	45.3 J	48.4 J	46.9	30.5	41.1	39.2 J	58.8 J	37.3 J	53.1 J	36.1 J	41.7 J
Zinc	mg/kg	48.9	44.8	92.3	58.8 J	57.5	55.6	75.5	38.3	51.4	53	96.3 J	39.9	89.3 J	48.8	53.9
Zirconium	mg/kg	5.56 U	5.51 U	5.68 U	2.27 J	5.51 U	5.71 U	5.94 U	5.53 U	5.78 U	5.66 U	1.98 J	5.36 U	2.18 J	5.19 U	5.43 U
Calcium	mg/kg	3430	2870	23600	3150 J	3910	3220	3360 J	2010	3060	3450	2840	4780	3620	2280 J	9860 J
Phosphorus	mg/kg	264	167	472	258 J	152 J	144	502	193	221	408 J	273 J	82.6 J	279 J	291 J	293 J
Selenium	mg/kg	0.441 U	0.118 J	0.181 J	0.147 J	0.0548 J	0.0848 J	0.194 J	0.135 J	0.131 J	0.139 J	0.109 J	0.0732 J	0.117 J	0.111 J	0.0447 J
Chromium VI	mg/kg	0.35 J	0.55 J	0.25 J	0.63 J	1.1 U	0.36 J	0.36 J	0.49 J	0.47 J	0.38 J	0.88 J	0.46 J	0.69 J	1.1 U	1.1 U
Perchlorate (314.0)	ug/kg	34.4 U	34.4 U	34.4 U	32.6 U	34.4 U	34.2 U	35.6 U	34.2 U	35 U	34.3 U	32.2 U	33.4 U	31.8 U	15.6 J	33.6 U
Perchlorate (6850)	ug/kg	--	--	--	--	--	--	--	--	5.8 U	--	--	--	--	--	--
Percent Moisture	%	12.7	12.7	12.8	8	12.7	12.4	15.8	12.2	14.3	12.6	6.9	10.3	5.6	6.5	10.6
pH	pH unit	7.25	7.55	8.08	7.49	7.27	7.07	7.56	7.08	7.01	7.58	6.51	8.32	7.78	6.94	8.05

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-5B

Sample Name		SL-189-SA5B-SS-0.0-0.5	SL-189-SA5B-SB-3.0-4.0	SL-190-SA5B-SB-4.0-5.0	SL-191-SA5B-SB-4.0-5.0	SL-192-SA5B-SS-0.0-0.5	SL-192-SA5B-SB-4.0-5.0	SL-193-SA5B-SB-4.0-5.0	SL-194-SA5B-SS-0.0-0.5	SL-194-SA5B-SB-4.0-5.0	SL-195-SA5B-SB-4.0-5.0	SL-196-SA5B-SS-0.0-0.5	SL-196-SA5B-SB-4.0-5.0	SL-197-SA5B-SB-4.0-5.0	SL-198-SA5B-SS-0.0-0.5	SL-198-SA5B-SB-4.0-5.0
Sample Date		12/16/2010	02/01/2011	02/01/2011	02/01/2011	12/16/2010	01/27/2011	01/28/2011	12/16/2010	01/28/2011	01/31/2011	12/16/2010	01/28/2011	01/31/2011	12/16/2010	01/31/2011
Lab SDG		DE042	DE072	DE072	DE072	DE042	DE070	DE071	DE042	DE071	DE074	DE042	DE071	DE074	DE042	DE074
Start Depth		0	3	4	4	0	4	4	0	4	4	0	4	4	0	4
End Depth		0.5	4	5	5	0.5	5	5	0.5	5	5	0.5	5	5	0.5	5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Nitrate	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Fluoride	mg/kg	2.6 J	20.8 J	13.9 J	3.9 J	5.1 J	4.5	9.2 J	2.6 J	4.2 J	1.7 J	1.4 J	5.1 J	3.3 J	2.2 J	6.5 J
Cyanide	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aluminum	mg/kg	14300	14100	25800	18000	13600	19300	23700	15800	25300	15600 J	16100	26600	18100 J	13900	20000 J
Iron	mg/kg	18700	22000	25500	28600	17600	24900	30000	19600	25100	17900 J	20400	29300	23600 J	17900	23200 J
Lead	mg/kg	13.8 J	3.97 J	5.76 J	5.67 J	16.4 J	5.3 J	5.09 J	14.2 J	6.38 J	5.02	16.6 J	6.44 J	4.98	59 J	4.21
Lithium	mg/kg	16.5 J	38.7	32.1	32.8	18.4 J	24.9	36	19.6 J	23.5	16.5 J	17.8 J	22.6	24.1 J	17.2 J	32.3 J
Magnesium	mg/kg	3360	5300	4470	6280	4110	4280	6410	4200	4230	3320 J	3870	4840	4560 J	3670	4610 J
Manganese	mg/kg	340	228	176	269	223	188 J	245	290	339	300 J	352	255	347 J	305	179 J
Mercury	mg/kg	0.104 U	0.108 U	0.112 U	0.108 U	0.321	0.111 U	0.116 U	0.101 J	0.0048 J	0.109 U	0.0267 J	0.005 J	0.107 U	0.0108 J	0.0093 J
Molybdenum	mg/kg	0.839 J	0.277	0.4	0.315	0.936 J	0.377	0.237	0.752 J	0.408	0.622	1.35 J	0.445	0.327	2.73 J	0.211
Nickel	mg/kg	13.8 J	11.1 J	10.8 J	13.6 J	21.8 J	11.7 J	15.8 J	17.2 J	13.9 J	11.1	19 J	12.5 J	11.4	36.3 J	11.8
Potassium	mg/kg	2860 J	1740	1380	1470	2680 J	1550 J	1740 J	3010 J	1480 J	2650 J	3510 J	1380 J	1320 J	3150 J	1390 J
Silver	mg/kg	0.1 J	0.0411 J	0.103 J	0.0195 J	0.121 J	0.0699 J	0.0236 J	0.0775 J	0.0564 J	0.0203 J	0.105 J	0.0496 J	0.0393 J	0.146 J	0.074 J
Sodium	mg/kg	91 J	526	651	700	86.3 J	308	1160	98.5 J	445	86.9 J	104	400	211	96.2 J	283
Strontium	mg/kg	22.9	45.2	33.5	31.8	21.2	23.5	33	21.6	26	20.7 J	29.4	26.5	24.6 J	22.6	25.9 J
Thallium	mg/kg	0.358 J	0.225	0.203	0.199	0.424 J	0.166	0.217	0.391 J	0.25	0.257	0.41 J	0.257	0.225	0.422 J	0.185
Tin	mg/kg	10.2 U	10.8 U	10.9 U	10.8 U	10.3 U	10.8 U	11.7 U	10.9 U	11.4 U	11.3 U	10 U	11 U	11.1 U	10.3 U	11.2 U
Titanium	mg/kg	1170	1370	1310	1490	859	996	1370	1210	1350	1190 J	1190	1340	1290 J	1130	1300 J
Antimony	mg/kg	0.215 UJ	0.215 UJ	0.221 UJ	0.134 J	0.247 UJ	0.115 J	0.234 UJ	0.215 UJ	0.223 UJ	0.113 J	0.206 UJ	0.226 UJ	0.0686 J	0.53 J	0.084 J
Arsenic	mg/kg	5.46 J	5.14 J	6.06 J	6.04 J	15.1 J	6.72 J	5.26 J	8.02 J	5.37 J	4.48	11.1 J	6.23 J	5.75	12.8 J	6.9
Beryllium	mg/kg	0.632 J	0.539	0.766	0.661	0.846 J	0.754	0.656	0.881 J	0.792	0.569	0.974 J	0.848	0.583	0.799 J	0.62
Barium	mg/kg	119 J	224 J	103 J	127 J	166 J	81.2 J	88.2	156 J	102	89.7	178 J	107	96.5	158 J	92.1
Boron	mg/kg	4.1 J	1.05 J	1.73 J	5.38 U	3 J	5.4 U	1.16 J	3.76 J	2.45 J	1.76 J	3.62 J	1.73 J	5.54 U	4.82 J	1.65 J
Cadmium	mg/kg	0.23 J	0.107 U	0.111 U	0.106 U	0.507 J	0.0785 J	0.117 U	0.261 J	0.111 U	0.158 J	0.407 J	0.113 U	0.0819 J	1.33 J	0.13
Chromium	mg/kg	20.4 J	14.6 J	22.3 J	19.8 J	33.2 J	23 J	23.2	29.1 J	22.8	17.9	29.6 J	24.4	18	38.6 J	20.3
Cobalt	mg/kg	6.54 J	5.08 J	4.56 J	5.34 J	8.86 J	3.89 J	5.65 J	8.37 J	5.52 J	5.35	11.8 J	5 J	7.75	33.3 J	3.94
Copper	mg/kg	10.8 J	5.56	6.25	7.52	17.3 J	5.5 J	9.14 J	12.5 J	7.36 J	8.48	14.4 J	6.93 J	6.37	102 J	6.82
Vanadium	mg/kg	38 J	30.6 J	39.5 J	44.9 J	56.9 J	37.5 J	40.3	56.3 J	41.8	32.2	55.6 J	43.9	36.3	55.3 J	37.9
Zinc	mg/kg	57.3 J	57	40	53.2	129 J	39.4	54.8	90.8 J	43.3	44.1 J	91.8 J	39.1	43.6 J	188 J	45.6 J
Zirconium	mg/kg	2.16 J	5.42 U	5.43 U	5.38 U	1.38 J	5.4 U	5.84 U	1.63 J	5.68 U	5.65 U	2.34 J	5.49 U	5.54 U	1.81 J	5.58 U
Calcium	mg/kg	3120	12400 J	2850 J	3110 J	3140	2560	2990	3060	1890	2120 J	2860	2220	2900 J	3690	3100 J
Phosphorus	mg/kg	242 J	264 J	72 J	257 J	316 J	187 J	236	348 J	139	220 J	325 J	141	143 J	332 J	104 J
Selenium	mg/kg	0.143 J	0.0518 J	0.0475 J	0.0924 J	0.118 J	0.167 J	0.152 J	0.132 J	0.127 J	0.13 J	0.135 J	0.0989 J	0.0789 J	0.126 J	0.068 J
Chromium VI	mg/kg	0.58 J	1.1 U	1.1 U	1.1 U	2.5	1.1 U	0.67 J	0.36 J	0.35 J	0.5 J	0.72 J	0.42 J	1.1 U	0.7 J	1.1
Perchlorate (314.0)	ug/kg	32.2 U	32.8 U	13.4 J	32.6 U	32.3 U	33.7 U	35.4 U	33.3 U	34.4 U	34.6 U	31.6 U	34.2 U	33.6 U	32.1 U	33.8 U
Perchlorate (6850)	ug/kg	--	5.5 U	--	--	--	--	--	--	--	--	--	5.7 U	--	--	--
Percent Moisture	%	6.9	8.6	11.4	8	7.1	10.9	15.3	9.8	12.8	13.2	5.1	12.4	10.7	6.4	11.3
pH	pH unit	7.23	8.67	8.37	8.74	7.12	6.5	7.48	7.19	7.08	7.1	7.02	6.94	7.78	7.56	8.1

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-5B

Sample Name		SL-199-SA5B-SS-0.0-0.5	SL-199-SA5B-SB-4.0-5.0	SL-200-SA5B-SB-4.0-5.0	SL-201-SA5B-SB-4.0-5.0	SL-201-SA5B-SB-9.0-10.0	SL-202-SA5B-SS-0.0-0.5	SL-202-SA5B-SB-4.0-5.0	SL-202-SA5B-SB-7.0-8.0	SL-203-SA5B-SS-0.0-0.5	SL-203-SA5B-SB-4.0-5.0	SL-203-SA5B-SB-7.5-8.5	SL-204-SA5B-SS-0.0-0.5	SL-204-SA5B-SB-4.0-5.0	SL-205-SA5B-SS-0.0-0.5	SL-205-SA5B-SB-2.5-3.5
Sample Date		12/16/2010	01/31/2011	01/31/2011	01/28/2011	01/28/2011	12/16/2010	01/28/2011	01/28/2011	12/15/2010	01/27/2011	01/27/2011	12/15/2010	01/31/2011	12/16/2010	02/03/2011
Lab SDG		DE042	DE074	DE074	DE071	DE071	DE042	DE071	DE071	DE040	DE070	DE070	DE040	DE073	DE043	DE075
Start Depth		0	4	4	4	9	0	4	7	0	4	7.5	0	4	0	2.5
End Depth		0.5	5	5	5	10	0.5	5	8	0.5	5	8.5	0.5	5	0.5	3.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Nitrate	mg/kg	--	--	--	--	--	--	--	--	--	4	2.6	--	4.4	--	--
Fluoride	mg/kg	2.8 J	3.4 J	1.9 J	1.5 J	2.1 J	2.5 J	1.9 J	2 J	2.1	4.1	2.9	2	2.3 J	1.1 U	2.8
Cyanide	mg/kg	--	--	--	--	--	--	--	--	--	0.56 U	0.55 U	--	0.55 U	--	--
Aluminum	mg/kg	15400	22300 J	19700 J	24800	23500	16500	29800	29600	18000	19100	19300	16900	20600	15600	19600 J
Iron	mg/kg	20000	24400 J	21700 J	26800	29100	22900	28300	27900	23900 J	22800	29400	21200 J	22400	19200	22200 J
Lead	mg/kg	22 J	6.02	5.77	6.93 J	8.53 J	17.3 J	11.8 J	7.3 J	8.5 J	19.6 J	7.96 J	7.61 J	5.78 J	14.2 J	4.95
Lithium	mg/kg	19.2 J	26.8 J	22 J	24.8	26.5	21.9 J	31.6	33.2	21.6 J	23.6	31.9	20 J	27.3	18.7	30.6 J
Magnesium	mg/kg	4360	4310 J	3970 J	4540	5760	4580	4520	4720	4420 J	4170	5440	3900 J	4310	3530	4330 J
Manganese	mg/kg	346	235 J	356 J	286	460	350	186	345	290 J	315 J	180 J	262 J	187 J	325	228 J
Mercury	mg/kg	0.0067 J	0.0097 J	0.0065 J	0.109 U	0.0114 J	0.0503 J	0.0138 J	0.0203 J	0.0451 J	0.0058 J	0.004 J	0.006 J	0.113 U	0.102 U	0.0078 J
Molybdenum	mg/kg	1.15 J	0.467	0.75	0.563	0.45	1.05 J	0.685	0.449	0.728	0.816	0.325	0.652	0.206	1.04 J	0.367
Nickel	mg/kg	23.3 J	12.2	13.1	14.6 J	16.6 J	18.1 J	13.9 J	13.4 J	15.4 J	13.2 J	19.5 J	11.7 J	12.5 J	18 J	12.1
Potassium	mg/kg	3260 J	1680 J	2730 J	2180 J	1930 J	3960 J	1330 J	1200 J	3940 J	3040 J	1540 J	2590 J	1440	3520	1610 J
Silver	mg/kg	0.0725 J	0.0501 J	0.0382 J	0.0542 J	0.0888 J	0.0856 J	0.0488 J	0.0749 J	0.0325 J	0.0719 J	0.0596 J	0.0326 J	0.036 J	0.0522 J	0.0557 J
Sodium	mg/kg	93.2 J	184	110 J	103 J	157	93.3 J	459	685	113	83.7 J	227	117	100 J	76.3 J	141
Strontium	mg/kg	22.4	25.6 J	22.5 J	23.6	29.6	22.6	24.6	32.1	25 J	26.6	29.8	24.4 J	24	19.6	21.4 J
Thallium	mg/kg	0.424 J	0.248	0.26	0.298	0.309	0.405 J	0.24	0.216	0.264	0.286	0.463	0.211	0.219	0.411 J	0.2
Tin	mg/kg	10.6 U	11.4 U	11.4 U	11.4 U	10.9 U	10.6 U	11.2 U	10.9 U	10.4 U	11.4 U	11 U	10.6 U	11.5 U	10.4 U	11.2 U
Titanium	mg/kg	1160	1380 J	1310 J	1290	1270	1240	1160	1080	1330	1190	1400	1200	1170	1140	1210 J
Antimony	mg/kg	0.211 UJ	0.109 J	0.108 J	0.224 UJ	0.218 UJ	0.206 UJ	0.224 UJ	0.213 UJ	0.134 J	0.139 J	0.275 J	0.0824 J	0.111 J	0.207 UJ	0.224 UJ
Arsenic	mg/kg	9.33 J	5.48	4.8	5.2 J	8.78 J	7.14 J	8.74 J	7.46 J	6.13 J	6.81 J	8.78 J	4.59 J	6.02	6.79 J	5.59
Beryllium	mg/kg	0.742 J	0.714	0.676	0.82	0.88	0.775 J	1.24	0.868	0.663	0.683	0.835	0.534	0.768	0.708 J	0.638
Barium	mg/kg	142 J	107	111	115	110	154 J	106	98.5	101 J	109 J	109 J	90.9 J	108	151 J	78.2
Boron	mg/kg	4.89 J	2.28 J	2.02 J	2.82 J	1.21 J	4.42 J	7.49	9.86	6.14	2.5 J	1.56 J	4.93 J	5.75 U	8.41	9.17
Cadmium	mg/kg	0.517 J	0.0599 J	0.178	0.112 U	0.109 U	0.334 J	0.112 U	0.107 U	0.203	0.181	0.0651 J	0.19	0.149	0.414 J	0.0908 J
Chromium	mg/kg	29.9 J	22.8	19.9	21.5	27.7	28.3 J	25.3	25.2	25.7 J	21.4 J	28.4 J	18.5 J	22 J	27.9 J	20.2
Cobalt	mg/kg	10 J	5.02	6.29	7.3 J	6.72 J	7.91 J	12.3 J	7.05 J	6.21 J	6 J	7.53 J	5.99 J	5.03 J	8.27 J	4.49
Copper	mg/kg	25.4 J	7.23	9.13	8.16 J	14.5 J	13.2 J	8.26 J	8.55 J	11.6	10.7 J	12.2 J	8.06	8.69 J	13.5 J	6.82
Vanadium	mg/kg	50.1 J	41.7	35.7	41.9	47.9	53 J	51.5	47.2	40.9 J	37.3 J	42.8 J	32.6 J	39.6 J	47.9 J	35.8
Zinc	mg/kg	82.9 J	42.3 J	49.5 J	48.3	59.6	98.7 J	44	41.7	61.8 J	52.2	61.1	60.7 J	44.2	87.7	47.7 J
Zirconium	mg/kg	1.53 J	5.71 U	5.7 U	5.72 U	5.45 U	1.47 J	5.59 U	5.43 U	1.46 J	5.7 U	5.51 U	3.02 J	3.69 J	0.899 J	5.6 U
Calcium	mg/kg	4040	2710 J	2280 J	2270	3440	3400	2530	3380	3520 J	3080	3880	3330 J	3120	2440	2620 J
Phosphorus	mg/kg	300 J	157 J	229 J	248	203	445 J	177	117	386 J	262 J	284 J	356 J	125	411	205 J
Selenium	mg/kg	0.204 J	0.0867 J	0.113 J	0.099 J	0.0596 J	0.0909 J	0.218 J	0.0947 J	0.112 J	0.111 J	0.088 J	0.146 J	0.0615 J	0.158 J	0.056 J
Chromium VI	mg/kg	0.76 J	0.34 J	0.34 J	0.42 J	0.5 J	0.86 J	0.52 J	0.71 J	0.44 J	0.52 J	0.3 J	0.28 J	1.2 U	0.33 J	0.38 J
Perchlorate (314.0)	ug/kg	31.9 U	34.6 U	34.6 U	34.6 U	33.7 U	32.2 U	34.2 U	32.6 U	32.7 U	34.9 U	34.1 U	32.2 U	34.5 U	31.7 U	33.9 U
Perchlorate (6850)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	5.3 U	5.7 U
Percent Moisture	%	6	13.3	13.2	13.4	11	6.7	12.3	8	8.2	14	11.9	6.7	13.1	5.3	11.6
pH	pH unit	7.62	7.84	7.49	6.57	7.31	7.5	7.39	8.25	7.31	7.27	7.86	7.4	7.51	6.83	6.84

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-5B

Sample Name		SL-206-SA5B-SS-0.0-0.5	SL-207-SA5B-SS-0.0-0.5	SL-207-SA5B-SB-2.5-3.5	SL-208-SA5B-SS-0.0-0.5	SL-209-SA5B-SS-0.0-0.5	SL-209-SA5B-SB-4.0-5.0	SL-210-SA5B-SS-0.0-0.5	SL-210-SA5B-SB-4.0-5.0	SL-211-SA5B-SS-0.0-0.5	SL-211-SA5B-SB-4.0-5.0	SL-212-SA5B-SS-0.0-0.5	SL-213-SA5B-SS-0.0-0.5	SL-214-SA5B-SS-0.0-0.5	SL-215-SA5B-SS-0.0-0.5	SL-216-SA5B-SS-0.0-0.5
Sample Date		12/17/2010	12/17/2010	02/03/2011	12/17/2010	12/17/2010	02/02/2011	12/17/2010	02/03/2011	12/17/2010	02/03/2011	12/20/2010	12/20/2010	12/20/2010	12/20/2010	12/20/2010
Lab SDG		DE044	DE044	DE075	DE044	DE044	DE085	DE044	DE075	DE044	DE075	DE047	DE047	DE047	DE047	DE047
Start Depth		0	0	2.5	0	0	4	0	4	0	4	0	0	0	0	0
End Depth		0.5	0.5	3.5	0.5	0.5	5	0.5	5	0.5	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
Nitrate	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Fluoride	mg/kg	1.8 J	2.9 J	2.6	3.1 J	2.1 J	1.8 J	3.6 J	1.6	4.2 J	1.1	1.8	1.6	2.4 J	2.4 J	2.7 J
Cyanide	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aluminum	mg/kg	16700	18200	17500 J	17300	16400	25500 J	17200	14100 J	25100	15400 J	8880 J	6790 J	11100 J	12700 J	13200 J
Iron	mg/kg	21500	22500	23800 J	21300	20900	35900 J	22700	24300 J	28600	19800 J	15300 J	12400 J	16700 J	14800 J	16200 J
Lead	mg/kg	7.88	9.79	6.06	8.73	11.4	8.41	11.2	4.09	21.7	4.83	40 J	24.1 J	55.9 J	47.4 J	18.1 J
Lithium	mg/kg	22.3	24.8	20.8 J	20.8	26	33.2 J	27.4	28.2 J	40.4	18.6 J	15.8	11.2	16.9	14.6	15.9
Magnesium	mg/kg	4500	4680	5130 J	4330	4360	7040 J	4770	5800 J	6130	3820 J	3000 J	2380 J	3630 J	3030 J	3360 J
Manganese	mg/kg	309	267	196 J	263	288	307 J	281	295 J	386	311 J	195 J	139 J	258 J	229 J	293 J
Mercury	mg/kg	0.0984 U	0.0151 J	0.0093 J	0.0033 J	0.0253 J	0.0167 J	0.0284 J	0.0109 J	0.0687 J	0.0059 J	23.6	0.399	0.39	0.005 J	0.0214 J
Molybdenum	mg/kg	0.599	0.673	0.602	0.545	0.495	1.3	0.568	0.317	1.09	0.612	0.896 J	0.65 J	1.83 J	0.453 J	0.742 J
Nickel	mg/kg	10.7 J	13.1 J	10.3	10.7 J	11.5 J	20.4	14.3 J	14.1	20.2 J	11.3	27 J	17.5 J	46.9 J	9.68 J	13 J
Potassium	mg/kg	4500	3050	1480 J	3220	3690	2620 J	3010	1910 J	4420	3520 J	2140	1560	2950	2500	3570
Silver	mg/kg	0.0501 J	5.89 J	0.23	0.14 J	6.24 J	0.017 J	6.76 J	0.105 U	44.8 J	0.063 J	1.9	0.978	3.85	0.197	0.0874 J
Sodium	mg/kg	76.5 J	92.7 J	128	79.1 J	78.4 J	110 J	82.7 J	100 J	116	73.6 J	120 J	120	338	94.3 J	96.3 J
Strontium	mg/kg	19.9	21.8	18.7 J	19.9	19.7	26.6 J	23.7	18.6 J	40.8	22 J	26.8	13.6	51.6	19.5	25.6
Thallium	mg/kg	0.224	0.218	0.208	0.246	0.227	0.477	0.254	0.249	0.323	0.264	0.188 J	0.134 J	0.316 J	0.222 J	0.291 J
Tin	mg/kg	10.4 U	10.3 U	11.3 U	10.2 U	10.5 U	11.4 U	10.3 U	10.7 U	11.2 U	11.3 U	12.1 U	11 U	12.3 U	13.2 U	12 U
Titanium	mg/kg	1300	1150	1260 J	1180	1180	1580 J	1170	1380 J	1490	1170 J	833	596	907	1070	1160
Antimony	mg/kg	0.203 UJ	0.102 J	0.148 J	0.0665 J	0.0718 J	0.356 J	0.082 J	0.107 J	0.218 J	0.22 UJ	0.38 J	0.204 J	0.464 J	0.156 J	0.0826 J
Arsenic	mg/kg	4.81	4.86	7.04	5.5	4.69	13.9	5.41	6.87	9.74	4.17	4.1 J	3.98 J	4.45 J	3.57 J	4.39 J
Beryllium	mg/kg	0.542 J	0.551 J	0.585	0.586 J	0.515 J	0.855	0.556 J	0.455	0.911 J	0.506	0.462	0.496	0.568	0.473	0.568
Barium	mg/kg	92.2	87.5	67.8	89.3	81.2	103	87.3	82	143	103	68 J	60.3 J	79.9 J	68.1 J	89.5 J
Boron	mg/kg	4.94 J	7.18	5.65 U	5.8	5.67	5.68 U	5.24	5.33 U	5.21 J	1.6 J	14.6	6.13	16.3	6.28 J	7.83
Cadmium	mg/kg	0.145 J	0.259 J	0.105 J	0.13 J	0.386 J	0.11 U	0.398 J	0.138	1.67 J	0.236	1.2 J	1.75 J	2.44 J	0.202 J	0.434 J
Chromium	mg/kg	19 J	21.7 J	22.2	18.9 J	19.6 J	29.2	23.1 J	21.4	43.9 J	17.4	20.6 J	12.7 J	36 J	14.2 J	17.3 J
Cobalt	mg/kg	4.76 J	4.84 J	6.74	4.86 J	4.79 J	9.31	5.6 J	5.59	7.38 J	5.3	7.53	6.21	7.17	4.54	5.99
Copper	mg/kg	8.05 J	10.3 J	8.43	8.13 J	12 J	15.9	11.2 J	7.91	36.7 J	10.3	33.1 J	26.3 J	55.9 J	7.44 J	10.2 J
Vanadium	mg/kg	28.4 J	27.7 J	41.4	30.1 J	26.8 J	44.7	28.1 J	38.7	42.1 J	31.1	29.1 J	21 J	34.5 J	25 J	30.1 J
Zinc	mg/kg	59.5	59.9	48.3 J	55	63.7	76.3 J	71.2	54.9 J	132	50.5 J	657 J	654 J	715 J	51 J	72.6 J
Zirconium	mg/kg	1.11 J	1.26 J	5.65 U	1.15 J	1.22 J	5.68 U	1.66 J	5.33 U	2.37 J	5.66 U	2.96 J	2.11 J	4.2 J	2.96 J	3.22 J
Calcium	mg/kg	2890	2900	2490 J	2650	2800	3560 J	3830	3330 J	6060	2370 J	5450 J	2970 J	6470 J	2770 J	2990 J
Phosphorus	mg/kg	587	403	182 J	406	425	363 J	379	419 J	550	379 J	365 J	300 J	501 J	260 J	293 J
Selenium	mg/kg	0.116 J	0.144 J	0.141 J	0.159 J	0.115 J	0.324 J	0.154 J	0.102 J	0.319 J	0.129 J	0.318 J	0.216 J	0.302 J	0.196 J	0.164 J
Chromium VI	mg/kg	0.37 J	0.97 J	0.76 J	0.78 J	0.45 J	0.29 J	0.38 J	0.27 J	0.87 J	0.44 J	1.2	0.8 J	1.3 U	0.76 J	0.68 J
Perchlorate (314.0)	ug/kg	31.4 U	31.8 U	34.2 U	31.5 U	32.1 U	34.4 U	31.6 U	32.6 U	33.9 U	33.9 U	36.2 U	33.7 U	38.8 U	41.7 U	37.1 U
Perchlorate (6850)	ug/kg	--	--	--	--	5.3 U	--	--	--	--	--	--	--	--	--	--
Percent Moisture	%	4.4	5.8	12.4	4.7	6.5	12.8	5.1	8	11.4	11.6	17.2	11.1	22.7	28.1	19.2
pH	pH unit	6.77	7.05	6.14	6.85	7.12	7.25	8.01	6.68	8.13	6.66	8.04	7.57	7.93	7.16	7.84

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-5B

Sample Name		SL-217-SA5B-SS-0.0-0.5	SL-219-SA5B-SS-0.0-0.5	SL-225-SA5B-SS-0.0-0.5	SL-225-SA5B-SB-2.0-3.0	SL-226-SA5B-SS-0.0-0.5	SL-227-SA5B-SS-0.0-0.5	SL-227-SA5B-SB-2.5-3.5	SL-228-SA5B-SS-0.0-0.5	SL-229-SA5B-SS-0.0-0.5	SL-229-SA5B-SB-2.0-3.0	SL-230-SA5B-SS-0.0-0.5	SL-230-SA5B-SB-2.0-3.0	SL-231-SA5B-SS-0.0-0.5	SL-232-SA5B-SS-0.0-0.5	SL-233-SA5B-SS-0.0-0.5
Sample Date		12/20/2010	12/21/2010	12/21/2010	03/09/2011	12/21/2010	12/21/2010	03/11/2011	12/10/2010	12/10/2010	02/03/2011	12/09/2010	02/03/2011	12/09/2010	12/10/2010	12/10/2010
Lab SDG		DE047	DE049	DE049	DE101	DE049	DE049	DE102	DE034	DE034	DE075	DE031	DE075	DE031	DE034	DE034
Start Depth		0	0	0	2	0	0	2.5	0	0	2	0	2	0	0	0
End Depth		0.5	0.5	0.5	3	0.5	0.5	3.5	0.5	0.5	3	0.5	3	0.5	0.5	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Nitrate	mg/kg	--	--	--	2	--	--	2.3	--	--	1.4 J	--	1.7	--	--	--
Fluoride	mg/kg	1.6 J	1.2 J	2 J	4.6 J	2.3 J	3.3 J	5.6	1.8	4.2	2.2	1.4	4.8	1.3	1.8 J	3.9 J
Cyanide	mg/kg	--	--	--	0.55 U	--	--	0.55 U	--	--	0.54 U	--	0.57 U	--	--	--
Aluminum	mg/kg	10900 J	15800	13100	23100	16300	15800	17600	9890	11400	14800 J	9440	13200 J	8330	20200	21000
Iron	mg/kg	17600 J	20800	18400	25300	24100	19600	22000	14800	15800	21100 J	15900	17900 J	15600	27100	27400
Lead	mg/kg	48.7 J	60.2 J	52.2 J	8.16 J	15.6 J	11.8 J	17.7	12.3 J	7.53 J	3.62	9.44 J	4.89	4.31 J	11.8 J	10.6 J
Lithium	mg/kg	17.8	24.6 J	21.5 J	47.1	29.3 J	24.8 J	32	17.3	17.2	19.6 J	15.7	38.9 J	18.2	25.8	28.2
Magnesium	mg/kg	3250 J	4300	3740	4730	5280	4140	5020	3000	3650	4170 J	4310	3000 J	7010	6920	6950
Manganese	mg/kg	223 J	171	199	240	417	346	225	236	232	226 J	249	182 J	232	339	330
Mercury	mg/kg	0.386	0.228	0.311	0.112 U	0.0805 J	0.0146 J	0.108 U	0.0087 J	0.0185 J	0.107 U	0.0337 J	0.0059 J	0.0161 J	0.005 J	0.0066 J
Molybdenum	mg/kg	1.69 J	1.3 J	0.821 J	0.885	0.853 J	0.576 J	0.642	0.567 J	1.21 J	0.325	1.61 J	0.301	0.493 J	0.686 J	0.543 J
Nickel	mg/kg	33.6 J	48.8	36.9	21.4 J	18.1	17	20.9	15.4 J	14.2 J	5.7	15.6	5.21	7.51	20.1 J	19.5 J
Potassium	mg/kg	2280	2630	2570	2140	3540	2870	2490	2620 J	2520 J	2690 J	2320 J	1990 J	2760 J	5080 J	4630 J
Silver	mg/kg	1.77	3.35	2.88	0.11 J	1.69	4.93	0.0645	0.0297 J	0.0404 J	0.109 U	0.0385 J	0.112 U	0.0405 J	0.0305 J	0.0386 J
Sodium	mg/kg	204	623	152	382	127	173	371	72.1 J	668	754	328	570	524	121	168
Strontium	mg/kg	25.6	34.5	30.4	36.4	33.1	28.4	22.2	13.4 J	30.3 J	15.9 J	38.6	12.8 J	112	91.8 J	83.7 J
Thallium	mg/kg	0.379 J	0.43	0.373	0.303 J	0.303	0.318	0.335	0.24 J	0.257 J	0.227	0.199	0.245	0.284	0.393 J	0.377 J
Tin	mg/kg	13.6 U	12.5 U	13.1 U	11.2 U	12.1 U	12 U	2.9	13.5 U	11.3 U	10.8 U	11.1 U	11.3 U	10 U	11.3 U	11 U
Titanium	mg/kg	922	1150	997	1280	1280	1140	1300	1560	1030	1120 J	1040	1130 J	1100	1540	1580
Antimony	mg/kg	0.534 J	0.632 J	0.3 J	0.133 J	0.147 J	0.075 J	0.0901	0.273 UJ	0.226 UJ	0.218 UJ	0.212 UJ	0.225 UJ	0.201 UJ	0.224 UJ	0.225 UJ
Arsenic	mg/kg	4.18 J	5.55 J	5.37 J	7.28 J	6.14 J	5.94 J	7.07	4.24 J	5.27 J	2.77	6.13	3.06	5.1	7.13 J	6.21 J
Beryllium	mg/kg	0.531	0.726	0.644	1.07	0.616	0.669	0.765	0.472	0.47	0.5	0.396	0.411	0.325	0.66	0.666
Barium	mg/kg	69.9 J	122	107	180 J	119	128	140	101	99.7	70.4	109 J	62.3	111 J	134	120
Boron	mg/kg	16.9	9.31	7.44	6.35 J	8.01	8.02	5.19	7.82	9.1	5.4 U	10.9	5.67 U	9.2	14	13.9
Cadmium	mg/kg	1.88 J	1.55	2.08	0.243 J	0.958	0.465	0.161	0.32 J	0.213 J	0.117	0.287	0.0654 J	0.0941 J	0.47 J	0.374 J
Chromium	mg/kg	31.9 J	37.8 J	35.3 J	31.6	23.2 J	25.3 J	27.1	23.3 J	22.6 J	12.1	25 J	6.43	12.8 J	30.5 J	30.4 J
Cobalt	mg/kg	6.41	8.03 J	9.13 J	6.95	6.75 J	6.63 J	9.06	6.02 J	5.92 J	4.18	6.78 J	3.54	5.81 J	9.76 J	10 J
Copper	mg/kg	42.6 J	44.8 J	43.5 J	12.3 J	17.3 J	12.5 J	12.1	16.8	9.77	3.74	12.9 J	2.93	9.32 J	16.7	14.6
Vanadium	mg/kg	28.5 J	40.5	43.4	58.5	47.4	53.2	49.5	23.8 J	25.6 J	25.2	48.5 J	17.3	32.5 J	41.4 J	45.7 J
Zinc	mg/kg	758 J	726	929	75.1 J	218	81.8	67.8	91.6	97.2	50 J	70.9	60.8 J	93	167	88.9
Zirconium	mg/kg	3.91 J	5.46 J	1.6 J	2.48 J	1.27 J	1.41 J	2.06	1.27 J	2.55 J	5.4 U	2.96 J	5.67 U	5.02 U	3.22 J	3.7 J
Calcium	mg/kg	3790 J	3600 J	3170 J	3420	4580 J	4700 J	2980	4930 J	4140 J	1910 J	12700	1850 J	33700	48700 J	41700 J
Phosphorus	mg/kg	411 J	473	425	302	455	320	268	310	425	223 J	620	434 J	421	557	518
Selenium	mg/kg	0.729	0.385 J	0.518 J	0.186 J	0.249 J	0.174 J	0.145	0.101 J	0.162 J	0.0771 J	1.12	0.0689 J	0.0883 J	0.244 J	0.217 J
Chromium VI	mg/kg	1 J	0.47 J	0.32 J	0.36 J	0.65 J	0.86 J	0.65	0.41 J	1.1 U	1.1 U	0.31 J	0.38 J	1 U	0.5 J	0.39 J
Perchlorate (314.0)	ug/kg	42 U	38.7 U	39.9 U	34.7 U	36.9 U	36.4 U	34.2 U	41.4 U	34.2 U	33.1 U	33.4 U	34.4 U	31.3 U	34.6 U	34.1 U
Perchlorate (6850)	ug/kg	7 U	--	--	--	--	--	--	--	--	--	5.6 U	--	5.2 U	--	--
Percent Moisture	%	28.5	22.4	24.9	13.6	18.8	17.6	12.3	27.5	12.2	9.3	10.1	12.7	4.2	13.2	11.9
pH	pH unit	7.49	7.1	7.39	8.02	7.79	8.04	8.7	7.79	8.81	7.29	8.88	6.79	9.08	8.41	8.51

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-5B

Sample Name		SL-234-SA5B-SS-0.0-0.5	SL-234-SA5B-SB-2.5-3.5	SL-235-SA5B-SS-0.0-0.5	SL-236-SA5B-SS-0.0-0.5	SL-240-SA5B-SS-0.0-0.5	SL-240-SA5B-SB-4.0-5.0	SL-240-SA5B-SB-9.0-10.0	SL-253-SA5B-SS-0.0-0.5	SL-253-SA5B-SB-3.0-4.0	SL-254-SA5B-SS-0.0-0.5	SL-254-SA5B-SB-3.5-4.5	SL-255-SA5B-SS-0.0-0.5	SL-257-SA5B-SS-0.0-0.5	SL-259-SA5B-SB-4.0-5.0	SL-262-SA5B-SS-0.0-0.5
Sample Date		12/10/2010	01/07/2011	12/10/2010	12/13/2010	12/14/2010	01/10/2011	01/10/2011	02/11/2011	01/21/2011	02/11/2011	01/21/2011	12/20/2010	12/15/2010	01/04/2011	12/15/2010
Lab SDG		DE035	DE055	DE035	DE036	DE038	DE056	DE056	DE081	DE066	DE081	DE066	DE047	DE040	DE052	DE041
Start Depth		0	2.5	0	0	0	4	9	0	3	0	3.5	0	0	4	0
End Depth		0.5	3.5	0.5	0.5	0.5	5	10	0.5	4	0.5	4.5	0.5	0.5	5	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Nitrate	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Fluoride	mg/kg	3.6 J	2.5	2.4 J	1.1 U	1.6	5.1 J	1.9 J	1.7	1.8 J	2	2.2 J	2.7 J	2.6	1.1 UJ	1.8 J
Cyanide	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aluminum	mg/kg	15400 J	15800	13700 J	16800	17400	17300 J	13500 J	19600	27600	17600	16900	12300 J	13500	14900	18100
Iron	mg/kg	20100	19400	22400	24100	22800	21400	23800	24300	27900	24000	27700	67300 J	20000 J	21800	24600
Lead	mg/kg	7.1 J	4.25 J	8.34 J	10.6 J	6.15	6.52 J	6.38 J	8.29 J	7.43 J	11.5 J	14.8 J	18.6 J	16.9 J	5.8 J	13.6 J
Lithium	mg/kg	18.8	20.3	24.8	23.6	22.2	23 J	24.1 J	23.7	33.6	23.5	48.2	15.6	21.7 J	28.6	27.7
Magnesium	mg/kg	4120	5490	4940	5690	5000 J	4900	5490	4240 J	4810	4360 J	6850	3220 J	3840 J	4970	6350
Manganese	mg/kg	274 J	250	289 J	301	315 J	310 J	378 J	444	406	408	348	315 J	255 J	344 J	334
Mercury	mg/kg	0.0082 J	0.107 U	0.0186 J	0.0341 J	0.0229 J	0.0272 J	0.108 U	0.105 U	0.111 U	0.1 U	0.0043 J	0.116 U	0.0062 J	0.109 U	0.0044 J
Molybdenum	mg/kg	1.04 J	0.591	0.578 J	0.843 J	0.583	0.896 J	0.91 J	0.595	0.449	0.683	0.331	0.871 J	0.572	0.419 J	0.802 J
Nickel	mg/kg	14.5 J	9.48	13.9 J	16.9 J	12.8	15.2 J	16.9 J	15.9	19.3	18.4	39.3	15.1 J	11.8 J	13.2	15.1 J
Potassium	mg/kg	2830	2820	3000	4170	3480 J	3150 J	1780 J	3340	1890 J	3270	2110 J	3330	2670 J	2690 J	3390 J
Silver	mg/kg	0.0378 J	0.0187 J	0.0302 J	0.0265 J	0.0304 J	0.0423 J	0.0133 J	0.038 J	0.0562 J	0.0471 J	0.0303 J	0.0823 J	1.03	0.109 U	0.097 J
Sodium	mg/kg	106 J	164	86.4 J	160	135	168	207	89.8 J	147	82.7 J	160	78.5 J	89.8 J	133	120
Strontium	mg/kg	29.4	18.4	29.8	38.4	35.3	23.1 J	19.5 J	29.2 J	30.6	24 J	25.9	18.7	14.9 J	15.8	20.2
Thallium	mg/kg	0.207 J	0.299	0.341 J	0.295	0.274	0.292 J	0.304 J	0.353 J	0.334 J	0.336 J	0.386 J	0.324 J	0.218	0.336	0.291 J
Tin	mg/kg	10.7 U	10.5 U	10.5 U	10.5 U	10 U	11.2 U	10.7 U	10.4 U	11.3 U	10.3 U	10.6 U	12.2 U	10.8 U	10.8 U	10.2 U
Titanium	mg/kg	1340 J	1420	1390 J	1180	1450 J	1320 J	1210 J	1160 J	1530	1130 J	1580	1070	1160	1350	1580
Antimony	mg/kg	0.212 UJ	0.0805 J	0.212 UJ	0.152 J	0.113 J	0.222 UJ	0.221 UJ	0.135 J	0.224 UJ	0.154 J	0.219 UJ	0.126 J	0.132 J	0.218 UJ	0.282 J
Arsenic	mg/kg	5.03 J	4.43 J	6.2 J	5.85 J	4.41 J	4.58 J	7.45 J	5.45	5.53 J	6.91	9.31 J	5.37 J	4.8 J	8.29 J	6.06 J
Beryllium	mg/kg	0.555 J	0.572	0.543 J	0.538 J	0.557	0.653	0.669	0.763	0.935 J	0.832	0.941 J	0.669	0.525	0.69 J	0.633
Barium	mg/kg	127 J	125	109 J	130 J	129 J	134 J	87 J	147 J	141	159 J	144	107 J	69 J	91.3	104 J
Boron	mg/kg	6.86	5.27 U	6.16	7.12	8.65	1.26 J	5.36 U	3.95 J	1.49 J	3.55 J	5.32 U	13.1	5.19 J	5.4 U	5.12 U
Cadmium	mg/kg	0.263 J	0.0575 J	0.193 J	0.377 J	0.147	0.184 J	0.0883 J	0.334 J	0.154	0.348 J	0.112	0.316 J	0.179	0.102 J	0.175 J
Chromium	mg/kg	22.8 J	19.7 J	21.6 J	27.9 J	20.6	21.6 J	25.9 J	22 J	32.4 J	26.6 J	39.6 J	22 J	19.3 J	20.6 J	24.3 J
Cobalt	mg/kg	6.31 J	6.11 J	6.24 J	8.08 J	6.25 J	8.48 J	9.55 J	7.45 J	7.7	8.22 J	20.7	7.2	5.17 J	6.85 J	6.55
Copper	mg/kg	10.5 J	6.53 J	11.1 J	14.7 J	12.2	10.6 J	9.78 J	12.9 J	14.1	14.3 J	24.9	12.1 J	7.82	8.45 J	11.1
Vanadium	mg/kg	43 J	38.7 J	44.5 J	49.6	42 J	41.2 J	42.7 J	41.7 J	58.1	50.5 J	67.7	38.6 J	33.8 J	45.9 J	46.5 J
Zinc	mg/kg	77.9 J	67.1	91.5 J	115	71.8	67.9 J	75.1 J	62	51.8	83.5	87.8	72.4 J	81 J	70.2	81.9 J
Zirconium	mg/kg	1.78 J	5.27 U	1.09 J	1.19 J	2.11 J	2.97 J	2.33 J	5.2 U	3.26 J	5.14 U	5.32 U	4.8 J	1.26 J	1.6 J	3.57 J
Calcium	mg/kg	5650 J	2580 J	9690 J	12100	6410 J	3480	3340	2910 J	3320	2620 J	3440	1950 J	2640 J	2610	3630
Phosphorus	mg/kg	694 J	371 J	503 J	546	458	446	323	281 J	180 J	376 J	410 J	778 J	317 J	375 J	481
Selenium	mg/kg	0.141 J	0.0852 J	0.11 J	0.16 J	0.0812 J	0.115 J	0.0708 J	0.163 J	0.199 J	0.198 J	0.0618 J	0.198 J	0.0807 J	0.151 J	0.189 J
Chromium VI	mg/kg	0.36 J	1.1 U	2.2	1.1 U	1 U	0.31 J	1.1 U	0.76 J	0.41 J	0.66 J	1.1 U	2.6	1.1 U	1.1 U	1.1 U
Perchlorate (314.0)	ug/kg	32.8 U	33.2 U	32.5 U	31.9 U	31.3 U	34.4 U	33.1 U	31.8 U	34.7 U	31.2 U	33.2 U	36.9 U	33.3 U	33 U	31.6 U
Perchlorate (6850)	ug/kg	--	--	--	5.3 U	--	--	--	--	--	--	--	--	--	--	--
Percent Moisture	%	8.6	9.7	7.6	5.9	4	12.7	9.4	5.8	13.5	3.7	9.6	18.7	10	9.2	5.2
pH	pH unit	8.48	6.36	8.67	7.55	8.2	8.17	7.9	6.68	6.14	6.5	6.9	7.42	7.19	6.08	6.85

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-5B

Sample Name		SL-262-SA5B-SB-4.0-5.0	SL-263-SA5B-SS-0.0-0.5	SL-263-SA5B-SB-2.0-3.0	SL-264-SA5B-SS-0.0-0.5	SL-272-SA5B-SS-0.0-0.5	SL-272-SA5B-SB-4.0-5.0	SL-273-SA5B-SS-0.0-0.5	SL-273-SA5B-SB-2.0-3.0	SL-274-SA5B-SS-0.0-0.5	SL-274-SA5B-SB-4.0-5.0	SL-275-SA5B-SS-0.0-0.5	SL-275-SA5B-SB-3.5-4.5	SL-276-SA5B-SS-0.0-0.5	SL-276-SA5B-SB-4.0-5.0	SL-277-SA5B-SS-0.0-0.5
Sample Date		01/26/2011	12/15/2010	01/26/2011	12/15/2010	12/17/2010	02/04/2011	12/17/2010	02/04/2011	12/17/2010	02/03/2011	12/17/2010	02/02/2011	12/17/2010	02/01/2011	12/17/2010
Lab SDG		DE069	DE041	DE069	DE041	DE044	DE076	DE044	DE076	DE044	DE075	DE044	DE085	DE044	DE072	DE044
Start Depth		4	0	2	0	0	4	0	2	0	4	0	3.5	0	4	0
End Depth		5	0.5	3	0.5	0.5	5	0.5	3	0.5	5	0.5	4.5	0.5	5	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Nitrate	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Fluoride	mg/kg	37.1	1 J	3.5	1.1 UJ	2.3 J	1.3 J	3.2 J	8 J	4.7 J	4.1	2.2 J	1.6 J	2.5 J	1.4 J	2.9 J
Cyanide	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aluminum	mg/kg	26700	14200	16300	13100	16000	19100 J	20400	21500 J	20200	17100 J	18200	20700 J	15800	18500	16100
Iron	mg/kg	29800	23100	23900	22200	20300	22200	29700	30900	26200	23200 J	20700	22100 J	18100	25300	19200
Lead	mg/kg	9.71	38.4 J	5.57	17.2 J	7.24	6.12 J	17.2	16.5 J	13.8	5.59	12.3	6.09	14.3	5.37 J	12.2
Lithium	mg/kg	31.6	19.5	26.6	33.4	18.5	21.6 J	35.7	43.3 J	34.6	28.7 J	22.2	26 J	18.4	30.1	18.3
Magnesium	mg/kg	6140	5380	5770	4880	4140	4430 J	6090	6090 J	5980	4810 J	4270	4140 J	3560	4470	3670
Manganese	mg/kg	176	280	275	294	321	258	346	335	327	324 J	354	267 J	316	340	323
Mercury	mg/kg	0.0073 J	0.0033 J	0.0078 J	0.102 U	0.0986 U	0.0036 J	0.0735 J	0.0737 J	0.0567 J	0.0095 J	0.0042 J	0.0055 J	0.0034 J	0.102 U	0.0037 J
Molybdenum	mg/kg	1.11	1.24 J	0.57	0.995 J	0.601	0.452	0.909	1.08	0.813	0.641	0.708	0.649	0.659	0.407	0.652
Nickel	mg/kg	14.9	16 J	18.8	20.3 J	11.6 J	11.7	16.3 J	17.5	22 J	11.2	13.3 J	12.1	11 J	9.89 J	11.4 J
Potassium	mg/kg	2570	3530 J	2490	2680 J	3890	1860	3690	3010	3420	3160 J	4060	1920 J	3450	2180	3670
Silver	mg/kg	0.03 J	0.136 J	0.0454 J	0.175 J	0.0643 J	0.029 J	20 J	21.5	19.8 J	0.492	0.0566 J	0.039 J	0.0547 J	0.0177 J	0.0757 J
Sodium	mg/kg	1430	106	107 J	90.8 J	71.1 J	94.2 J	115	99.3 J	114	97.8 J	83.4 J	102 J	79.8 J	93.9 J	83.8 J
Strontium	mg/kg	22.8	18.9	19.1	14.9	21.4	20.7	32.6	41.3	29.1	28.2 J	25.3	21.5 J	20	16.7	22.7
Thallium	mg/kg	0.298	0.299 J	0.314	0.415 J	0.205	0.228 J	0.222	0.267 J	0.293	0.242	0.275	0.246	0.214	0.262	0.231
Tin	mg/kg	11.4 U	10.4 U	11 U	10.5 U	10.4 U	10.8 U	10.4 U	11 U	10.6 U	11.2 U	10.4 U	11.6 U	10.2 U	10.8 U	10.4 U
Titanium	mg/kg	1620	1270	1620	1390	1140	1280	1390	1380	1340	1280 J	1270	1250 J	1120	1210	1150
Antimony	mg/kg	0.228 UJ	0.272 J	0.214 UJ	0.449 J	0.0813 J	0.101 J	0.134 J	0.223 UJ	0.105 J	0.22 UJ	0.209 UJ	0.0968 J	0.0784 J	0.0786 J	0.0828 J
Arsenic	mg/kg	9.79	5.58 J	6.17	25.3 J	3.68	6.86 J	7.52	7.15 J	7.04	4.44	4.4	5.98	3.84	4.62 J	3.71
Beryllium	mg/kg	0.92	0.599	0.562	0.678	0.492 J	0.728 J	0.646 J	0.683 J	0.68 J	0.507	0.629 J	0.71	0.538 J	0.622	0.516 J
Barium	mg/kg	51.4	108 J	79.2	119 J	103	97.3	91.8	91.5	101	96.5	126	101	91.5	74.8 J	100
Boron	mg/kg	5.71 U	5.18 U	1.29 J	5.25 U	5.89	5.39 U	4.94 J	5.52 U	4.85 J	1.7 J	5.73	5.79 U	5.85	5.4 U	6.32
Cadmium	mg/kg	0.114 U	0.583 J	0.0834 J	0.214 J	0.233 J	0.0608 J	0.956 J	0.876	0.673 J	0.239	0.293 J	0.112 U	0.254 J	0.068 J	0.214 J
Chromium	mg/kg	31.3 J	25.6 J	28 J	29 J	17.4 J	20.9 J	28.6 J	29.4 J	34.8 J	17.3	19.9 J	19.2	17.1 J	15.1 J	17.1 J
Cobalt	mg/kg	4.61	8.19	6.29	8.19	4.88 J	5.81 J	6.33 J	6.26 J	6.6 J	5.03	5.67 J	5.74	4.7 J	5.24 J	4.84 J
Copper	mg/kg	11.7 J	16	9.83 J	13.4	10.6 J	8.54 J	21.6 J	21.2 J	19 J	9.3	10.8 J	7.69	9.54 J	5.35	9.57 J
Vanadium	mg/kg	55.3	53.8 J	38.1	50.2 J	25.9 J	41.4 J	31.8 J	37.5 J	35.3 J	30.1	29.4 J	36	26.7 J	36 J	26.7 J
Zinc	mg/kg	57.7	139 J	54.5	111 J	55	47	96.5	95.4	93.9	49.5 J	72.1	50.1 J	55	47	54.7
Zirconium	mg/kg	5.71 U	4.27 J	5.51 U	2.8 J	1.12 J	5.39 U	1.49 J	5.52 U	1.62 J	5.61 U	1.36 J	5.79 U	5.11 U	5.4 U	1.3 J
Calcium	mg/kg	2170	3630	3960	3490	2320	2330	5290	6770	4810	3700 J	2680	2160 J	2300	2140 J	2490
Phosphorus	mg/kg	194	531	380	450	456	152 J	458	524 J	427	354 J	471	225 J	372	254 J	371
Selenium	mg/kg	0.403 J	0.195 J	0.111 J	0.167 J	0.111 J	0.0641 J	0.242 J	0.216 J	0.197 J	0.124 J	0.144 J	0.0605 J	0.125 J	0.104 J	0.11 J
Chromium VI	mg/kg	0.42 J	1.1 U	0.23 J	1.1 U	0.51 J	1.1 U	1.3	3	0.71 J	0.42 J	0.39 J	0.24 J	0.3 J	1.1 U	1.1 U
Perchlorate (314.0)	ug/kg	34.2 U	32 U	33 U	32.2 U	31.6 U	33.3 U	32.1 U	34.1 U	32.6 U	33.6 U	32 U	34.7 U	31.3 U	32.8 U	31.7 U
Perchlorate (6850)	ug/kg	--	--	--	--	--	--	5.3 U	--	--	--	--	--	--	--	--
Percent Moisture	%	12.4	6.2	9.2	6.7	5	10	6.4	12	8.1	10.8	6.3	13.6	4	8.4	5.5
pH	pH unit	8.13	6.46	7.98	7.1	6.25	6.85	7.89	8.06	8.01	7.97	6.36	6.4	6.73	7.01	6.5

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-5B

Sample Name		SL-277-SA5B-SB-2.5-3.5	SL-278-SA5B-SS-0.0-0.5	SL-278-SA5B-SB-2.0-3.0	SL-279-SA5B-SS-0.0-0.5	SL-279-SA5B-SB-2.5-3.5	SL-280-SA5B-SS-0.0-0.5	SL-280-SA5B-SB-4.0-5.0	SL-280-SA5B-SB-9.0-10.0	SL-281-SA5B-SS-0.0-0.5	SL-281-SA5B-SB-4.0-5.0	SL-281-SA5B-SB-8.0-9.0	SL-282-SA5B-SS-0.0-0.5	SL-282-SA5B-SB-4.0-5.0	SL-282-SA5B-SB-7.0-8.0	SL-283-SA5B-SS-0.0-0.5
Sample Date		02/01/2011	12/17/2010	02/01/2011	12/17/2010	02/01/2011	12/08/2010	01/18/2011	01/18/2011	12/08/2010	12/17/2010	12/17/2010	12/08/2010	12/17/2010	12/17/2010	12/08/2010
Lab SDG		DE072	DE044	DE072	DE044	DE072	DE031	DE063	DE063	DE031	DE045	DE045	DE031	DE045	DE045	DE031
Start Depth		2.5	0	2	0	2.5	0	4	9	0	4	8	0	4	7	0
End Depth		3.5	0.5	3	0.5	3.5	0.5	5	10	0.5	5	9	0.5	5	8	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Nitrate	mg/kg	--	--	--	--	--	--	--	--	--	1.2 J	1.4 J	--	1.2 J	1.2 J	--
Fluoride	mg/kg	1 J	2.4 J	3.6 J	3 J	1.2 J	4.1	3.9	3.9 J	1.7	2.6	3.9	3.6	1.3	2.6	1.7
Cyanide	mg/kg	--	--	--	--	--	--	--	--	--	0.58 U	0.56 U	--	0.55 U	0.55 U	--
Aluminum	mg/kg	19400	16200	22000	15700	15700	11700	22500	32000	10600	33000	24500	13900	15000	14100	12900
Iron	mg/kg	22500	20800	26400	18400	21500	17400	25100	38500	18100	35400	21000	19500	17200	16500	17800
Lead	mg/kg	5.5 J	12	5.22 J	8.96	4.71 J	5.43 J	6.94 J	10 J	4.25 J	13.7 J	8.13 J	7.31 J	5.93 J	5.86 J	5.12 J
Lithium	mg/kg	26.3	16	21.4	18.1	23.2	18.6	23.2	26.5	16.7	23.6	22.7	19.6	21.1	20.3	17.7
Magnesium	mg/kg	4040	3390	4050	3630	4560	3640	4290	8000	4000	7620	4430	4310	3660	3700	3870
Manganese	mg/kg	224	296	228	317	326	240	228	402	240	533	212	271	273	236	235
Mercury	mg/kg	0.107 U	0.104 U	0.036 J	0.0991 U	0.109 U	0.0141 J	0.0083 J	0.0047 J	0.0114 J	0.0092 J	0.0034 J	0.0075 J	0.102 U	0.105 U	0.0126 J
Molybdenum	mg/kg	0.444	0.561	0.457	0.641	0.301	0.882 J	0.628	0.515	0.263 J	0.552 J	0.819 J	0.473 J	0.664 J	0.748 J	0.548 J
Nickel	mg/kg	9.93 J	9.8 J	8.15 J	10.8 J	8.62 J	8.35	10.1	18	6.73	23.4 J	15.4 J	11.6	12.7 J	13.3 J	9.8
Potassium	mg/kg	2150	3060	2440	3520	2030	2670 J	2070 J	4680 J	3180 J	4470	2440	3060 J	3090	3520	2840 J
Silver	mg/kg	0.0391 J	0.0721 J	0.0165 J	0.105 J	0.0176 J	0.0144 J	0.0281 J	0.0454 J	0.0158 J	0.0599 J	0.0637 J	0.0435 J	0.0388 J	0.0361 J	0.0162 J
Sodium	mg/kg	95 J	84.1 J	103 J	79.3 J	129	158	202	296	144	268	184	184	59.8 J	83.3 J	142
Strontium	mg/kg	20.1	18.2	15.6	20.9	19.4	16.7	22.8	42.4	22.5	35.2	21.5	21	19.4	17.6	23.8
Thallium	mg/kg	0.236	0.221	0.174	0.234	0.231	0.259	0.267	0.331	0.189	0.395	0.333	0.243	0.286	0.285	0.265
Tin	mg/kg	10.8 U	10.1 U	10.8 U	10.6 U	10.8 U	10.5 U	11 U	11.6 U	10.9 U	11.8 U	11.4 U	10.4 U	10.7 U	10.5 U	10.9 U
Titanium	mg/kg	1260	1090	1240	1160	1300	1180	1320	1470	1170	1420	1190	1100	1030	980	1010
Antimony	mg/kg	0.068 J	0.0969 J	0.215 UJ	0.212 UJ	0.214 UJ	0.208 UJ	0.22 UJ	0.235 UJ	0.222 UJ	0.172 J	0.0766 J	0.21 UJ	0.215 UJ	0.105 J	0.212 UJ
Arsenic	mg/kg	5.11 J	3.95	5.18 J	3.78	5.28 J	4.57	6.96	7.91	3.33	9.29 J	6.74 J	4.59	3.87 J	4.22 J	4.46
Beryllium	mg/kg	0.687	0.522 J	0.582	0.495 J	0.559	0.481	0.73	0.826	0.306	1.03	0.903	0.521	0.562	0.599	0.472
Barium	mg/kg	82.6 J	78.3	70.9 J	97	78.1 J	81.6 J	97.8	135	72.3 J	160	135	102 J	110	116	89.3 J
Boron	mg/kg	1.36 J	4.07 J	5.39 U	6.32	5.4 U	10.5	5.51 U	5.81 U	10	12.3	5.71	10.8	4.55 J	5.08 J	10.2
Cadmium	mg/kg	0.0507 J	0.189 J	0.108 U	0.223 J	0.107 U	0.0747 J	0.0733 J	0.251	0.0683 J	0.304 J	0.116 J	0.192	0.188 J	0.229 J	0.133
Chromium	mg/kg	18.1 J	16.1 J	15.4 J	16.8 J	16.6 J	15.2 J	19.5	34.7	11.7 J	47.4 J	27 J	18.9 J	19.8 J	21 J	17.2 J
Cobalt	mg/kg	4.51 J	4.72 J	3.9 J	4.94 J	5.61 J	4.7 J	5.7 J	8.7 J	3.94 J	11.1 J	7.6 J	6.17 J	6.01 J	6.15 J	5.62 J
Copper	mg/kg	7.23	8.01 J	5.71	8.71 J	5.41	7.97 J	6.72 J	15.4 J	6.91 J	20.1 J	9.54 J	10.2 J	9.66 J	10.4 J	8.4 J
Vanadium	mg/kg	33 J	27 J	31.2 J	25.9 J	30.5 J	28.7 J	40.3	60.8	24.3 J	79.5 J	51.8 J	37 J	38.9 J	39.3 J	34.3 J
Zinc	mg/kg	48.5	85.6	39.3	54.6	52	53.6	45.6	75.3	49.8	98.8	59.8	126	80.6	65.9	62.3
Zirconium	mg/kg	5.4 U	5.03 U	5.39 U	5.31 U	5.4 U	1.19 J	5.51 U	7.49	0.989 J	7.39	4.12 J	1.37 J	2.33 J	2.99 J	1.31 J
Calcium	mg/kg	2270 J	1920	1660 J	2320	2670 J	3790	2360	17100	5210	11100	2430	4350	2630	2150	5340
Phosphorus	mg/kg	193 J	278	193 J	345	266 J	341	210	438	451	307	282	370	434	477	363
Selenium	mg/kg	0.0607 J	0.124 J	0.105 J	0.113 J	0.0626 J	0.067 J	0.117 J	0.138 J	0.062 J	0.197 J	0.171 J	0.12 J	0.127 J	0.135 J	0.121 J
Chromium VI	mg/kg	0.32 J	0.56 J	0.32 J	0.34 J	0.25 J	1.1 U	1.1 U	1.2 U	1.1 U	0.59 J	0.65 J	1.1 U	0.44 J	0.57 J	1.1 U
Perchlorate (314.0)	ug/kg	33.7 U	31.4 U	33 U	32.2 U	33 U	32.8 U	33.4 U	35.5 U	15 J	35.8 U	34.2 U	32.5 U	32.8 U	32.9 U	32.8 U
Perchlorate (6850)	ug/kg	--	--	--	--	--	--	--	5.9 U	5.5 U	--	--	--	--	--	5.5 U
Percent Moisture	%	10.9	4.5	9	6.7	9.2	8.5	10.1	15.6	9.9	16.3	12.4	7.6	8.6	8.7	8.5
pH	pH unit	6.79	6.21	6.44	6.47	7.5	8.02	8.16	8.23	8.41	7.86	7.67	8.29	7.63	7.55	7.24

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-5B

Sample Name		SL-283-SA5B-SB-4.0-5.0	SL-283-SA5B-SB-9.0-10.0	SL-284-SA5B-SS-0.0-0.5	SL-285-SA5B-SS-0.0-0.5	SL-286-SA5B-SS-0.0-0.5	SL-287-SA5B-SS-0.0-0.5	SL-287-SA5B-SB-4.0-5.0	SL-287-SA5B-SB-9.0-10.0	SL-288-SA5B-SS-0.0-0.5	SL-289-SA5B-SS-0.0-0.5	SL-290-SA5B-SS-0.0-0.5	SL-291-SA5B-SS-0.0-0.5	SL-292-SA5B-SS-0.0-0.5	SL-293-SA5B-SS-0.0-0.5	SL-294-SA5B-SS-0.0-0.5
Sample Date		01/18/2011	01/18/2011	12/16/2010	12/16/2010	12/16/2010	12/10/2010	01/19/2011	01/19/2011	12/10/2010	02/11/2011	12/10/2010	12/09/2010	12/09/2010	12/09/2010	12/08/2010
Lab SDG		DE063	DE063	DE043	DE043	DE043	DE035	DE064	DE064	DE035	DE081	DE035	DE032	DE031	DE031	DE032
Start Depth		4	9	0	0	0	0	4	9	0	0	0	0	0	0	0
End Depth		5	10	0.5	0.5	0.5	0.5	5	10	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
Nitrate	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Fluoride	mg/kg	1.8	1.9	2	1.2	1.6	1.1 UJ	7.6 J	2.2 J	1 U	2.5	2.5	1.4	1.8	2.2	1.6
Cyanide	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aluminum	mg/kg	13600	14700	13100	9840	12700	8050 J	13500	10200	3760 J	10200	10200 J	11500	8920	10600	16300
Iron	mg/kg	17300	19200	21100	16200	24800	13900	19700	19900	5330	15800	13300	17900	13600	15700	22300
Lead	mg/kg	5.24 J	7.28 J	22.6 J	97.2 J	60.5 J	5.57 J	4.22	3.59	1.78 J	7.65 J	5.21 J	10.1 J	3.97 J	4.36 J	7.23 J
Lithium	mg/kg	15.6	17.7	24.2	13.2	16.9	17.7	19.2	30.1	3.2	15.8	8.3	12.6	12.9	15	19.8
Magnesium	mg/kg	3820	4060	4070	2790	3520	2890	3550	4440	1030	3290 J	3180	4820	3070	3520	4650
Manganese	mg/kg	219	258	266	177	393	215 J	213 J	258 J	104 J	204	171 J	231	177	198	278
Mercury	mg/kg	0.0103 J	0.0142 J	0.0627 J	0.0486 J	0.0516 J	0.102 U	0.109 U	0.102 U	0.103 U	0.0679 J	0.104 U	0.0114 J	0.0151 J	0.0144 J	0.107 U
Molybdenum	mg/kg	1.7	1.08	1.44 J	4.42 J	1.85 J	0.397 J	0.3	0.408	0.841 J	0.753	2.37 J	2.21 J	1.35 J	1.26 J	1.12 J
Nickel	mg/kg	11.3	11.1	28.8 J	34.8 J	33.7 J	7.07 J	6.75	5.64	7.44 J	13.5	14.8 J	15.8 J	11.9	10.7	16.4 J
Potassium	mg/kg	2430 J	2730 J	2470	1910	2420	2740	2560	3350	595	2170	1780	2750	2020 J	2280 J	3170
Silver	mg/kg	0.0197 J	0.0271 J	7.23 J	0.905 J	0.88 J	0.0148 J	0.0224 J	0.0164 J	0.102 U	0.0705 J	0.0258 J	0.141 J	0.0282 J	0.0352 J	0.0263 J
Sodium	mg/kg	228	280	147	98.3 J	104 J	66.7 J	342	129	51.4 J	394	258	943	408	288	121
Strontium	mg/kg	44.4	47.3	33.4	15.2	18.6	12.9	14.4	13.4	14.8	28.9 J	55.9	50.6 J	39	33.6	30.9 J
Thallium	mg/kg	0.171	0.238	0.427 J	0.236 J	0.208 J	0.217 J	0.256	0.246	0.0604 J	0.24 J	0.166 J	0.21 J	0.131	0.149	0.285 J
Tin	mg/kg	11.3 U	11.3 U	11 U	10.6 U	11.4 U	10.6 U	10.8 U	10.3 U	10.1 U	10.3 U	10.7 U	10.5 U	10.6 U	11.1 U	10.5 U
Titanium	mg/kg	1020	1170	979	754	893	821 J	1000	1110	310 J	779 J	869 J	899	823	832	1130
Antimony	mg/kg	0.219 UJ	0.222 UJ	0.465 J	0.354 J	0.23 UJ	0.21 UJ	0.222 UJ	0.203 UJ	0.366 UJ	0.158 J	0.269 UJ	0.209 UJ	0.209 UJ	0.217 UJ	0.213 UJ
Arsenic	mg/kg	4.66	4.98	10 J	6.97 J	5.65 J	3.09 J	3.71	2.84	3.22 J	4.99	5.66 J	6.41	4.31	4.54	6.05
Beryllium	mg/kg	0.39	0.442	0.646 J	0.503 J	0.491 J	0.335 J	0.476	0.34	0.161 J	0.513	0.288 J	0.514	0.295	0.328	0.686
Barium	mg/kg	85.5	86.3	125 J	139 J	109 J	67.7 J	68.3	74.4	21.9 J	107 J	130 J	130 J	106 J	81.9 J	107 J
Boron	mg/kg	5.63 U	5.66 U	6.94	2.55 J	6.03	4.78 J	1.47 J	5.17 U	3.02 J	3.1 J	6.47	7.33	9.11	9.99	3.83 J
Cadmium	mg/kg	0.202	0.238	2.17 J	1.7 J	1.12 J	0.206 J	0.059 J	0.141	0.0987 J	0.772 J	0.232 J	0.255 J	0.12	0.14	0.147 J
Chromium	mg/kg	21.6	19.6	31.9 J	49.8 J	46.4 J	11.4 J	11.5	9.68	13.2 J	22 J	31.1 J	27.5 J	28.5 J	22.8 J	30.1 J
Cobalt	mg/kg	4.79 J	5.2 J	9.7 J	9.76 J	9.46 J	3.57 J	3.87	3.59	2.34 J	5.57 J	5.6 J	6.51 J	4.77 J	4.66 J	7.18 J
Copper	mg/kg	7.45 J	8.16 J	26.3 J	352 J	19.3 J	5.2 J	6.12	7.72	3.3 J	9.24 J	9.95 J	20.6	8.11 J	7.16 J	10.9
Vanadium	mg/kg	33.1	33.4	50.6 J	54.4 J	43.1 J	22.9 J	24.5	22	15.3 J	38 J	42.1 J	43.7 J	34.7 J	30.2 J	46.3 J
Zinc	mg/kg	47.5	49.5	318	420	258	59.8 J	49.1	57.8	13 J	67.6	43.4 J	116 J	45.1	51.4	74.9 J
Zirconium	mg/kg	5.04 J	4.81 J	1.04 J	1.01 J	5.69 U	1.22 J	5.38 U	5.17 U	2.52 J	5.13 U	4.03 J	3.01 J	2.46 J	2.99 J	0.978 J
Calcium	mg/kg	6260	8960	4700	3570	4170	4300 J	2170	3700	7300 J	3210 J	4250 J	9690	4530	6690	5540
Phosphorus	mg/kg	491	437	457	388	489	362 J	258 J	367 J	320 J	510 J	603 J	651	423	445	484
Selenium	mg/kg	0.112 J	0.122 J	0.42 J	0.19 J	0.201 J	0.0751 J	0.0878 J	0.059 J	0.193 J	0.353 J	0.18 J	1.09	0.287 J	0.148 J	0.143 J
Chromium VI	mg/kg	1.1 U	1.1 U	0.26 J	0.96 J	1.5	0.33 J	1.1 U	0.24 J	1 UJ	0.28 J	0.29 J	0.35 J	0.49 J	1.1 U	1.1 U
Perchlorate (314.0)	ug/kg	33.8 U	33.9 U	34.1 U	32.8 U	35.2 U	32.4 U	33.6 U	31.3 U	31.3 U	31.7 U	32.2 U	31.9 U	32 U	33.6 U	32.5 U
Perchlorate (6850)	ug/kg	--	--	--	--	5.9 U	--	5.6 U	--	--	--	--	5.3 U	--	--	--
Percent Moisture	%	11.2	11.6	11.9	8.5	14.7	7.5	10.7	4.2	4.3	5.4	6.8	6.1	6.2	10.6	7.8
pH	pH unit	8.61	8.39	7.62	7.97	7.81	8.24	8.84	8.36	8.71	8.36	7.84	8.9	8.63	9.05	8.14

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-5B

Sample Name		SL-294-SA5B-SB-4.0-5.0	SL-294-SA5B-SB-9.0-10.0	SL-295-SA5B-SS-0.0-0.5	SL-295-SA5B-SB-4.0-5.0	SL-295-SA5B-SB-9.0-10.0	SL-296-SA5B-SS-0.0-0.5	SL-296-SA5B-SB-4.0-5.0	SL-296-SA5B-SB-9.0-10.0	SL-297-SA5B-SS-0.0-0.5	SL-297-SA5B-SB-4.0-5.0	SL-297-SA5B-SB-7.0-8.0	SL-298-SA5B-SS-0.0-0.5	SL-298-SA5B-SB-4.0-5.0	SL-298-SA5B-SB-9.0-10.0	SL-299-SA5B-SS-0.0-0.5
Sample Date		01/20/2011	01/20/2011	12/08/2010	01/18/2011	01/18/2011	12/08/2010	01/18/2011	01/18/2011	12/08/2010	12/15/2010	12/15/2010	01/05/2011	12/15/2010	12/15/2010	12/10/2010
Lab SDG		DE065	DE065	DE031	DE063	DE063	DE031	DE063	DE063	DE031	DE041	DE041	DE053	DE041	DE041	DE034
Start Depth		4	9	0	4	9	0	4	9	0	4	7	0	4	9	0
End Depth		5	10	0.5	5	10	0.5	5	10	0.5	5	8	0.5	5	10	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Nitrate	mg/kg	7.3 J	6.1	--	--	--	--	--	--	--	1.3 J	1 J	--	1.6 J	1.6 U	--
Fluoride	mg/kg	4	3.3	3.1	8	3.5	3.6	1.6	3.6	2.5	3.1 J	2.9 J	1.3	2 J	5 J	3.3 J
Cyanide	mg/kg	0.53 U	0.55 U	--	--	--	--	--	--	--	0.59 U	0.6 U	--	0.57 U	0.53 U	--
Aluminum	mg/kg	21300	13900	13900	22200	28300	11500	13300	16000	11500	23900	33100	13500	26700	10700	21400
Iron	mg/kg	25800	19600	18900	26700	33400	17800	19400	17400	19700	23200	35800	20800	26000	17100	27700
Lead	mg/kg	7.88 J	5.52 J	7.92 J	6.21 J	10.2 J	6.16 J	4.83 J	4.99 J	4.98 J	15.6 J	9.67 J	5.71 J	8.72 J	4.83 J	10.4 J
Lithium	mg/kg	24	21.9	17.6	25.5	24.5	18.9	15.3	19.1	23.5	23.3	24.8	14.9	24.7	23	24.1
Magnesium	mg/kg	5760	4500	3960	5380	6830	3820	3840	3870	5280	4660	8220	5100	5020	3660	7030
Manganese	mg/kg	297	276	258	350	340	243	230	253	279	314	310	346 J	292	230	332
Mercury	mg/kg	0.11 UJ	0.107 UJ	0.0097 J	0.0054 J	0.074 J	0.0067 J	0.0086 J	0.0137 J	0.007 J	0.109 U	0.0033 J	0.108 U	0.105 U	0.105 U	0.112 U
Molybdenum	mg/kg	0.63 J	0.563	0.551 J	0.56	0.455	0.764 J	1.28	0.839	0.475 J	1.01 J	1.04 J	0.526 J	1.05 J	0.553 J	0.441 J
Nickel	mg/kg	13.9 J	8.68 J	10.4	12.8	17.4	10.2	10.8	10	8.1	24.8 J	17 J	11.9	15.6 J	8.47 J	21 J
Potassium	mg/kg	4140 J	2720 J	2830 J	2900 J	3840 J	2780 J	2430 J	2640 J	4790 J	2740 J	6040 J	3620 J	3090 J	2290 J	4620 J
Silver	mg/kg	0.0348 J	0.0524 J	0.0277 J	0.0355 J	0.0409 J	0.0218 J	0.0252 J	0.0222 J	0.023 J	0.0596 J	0.076 J	0.0329 J	0.0643 J	0.0139 J	0.0302 J
Sodium	mg/kg	502	365	144	241	237	192	220	182	173	166	181	338	185	82.2 J	146
Strontium	mg/kg	29.5	21.8	21.8	26.1	35.4	21.1	34.3	25.3	37.6	22.9	40.9	28.6	22.3	8.87	134 J
Thallium	mg/kg	0.29	0.246	0.251	0.301	0.357	0.258	0.221	0.216	0.187	0.483 J	0.365 J	0.289	0.404 J	0.291 J	0.371 J
Tin	mg/kg	11.1 U	10.7 U	10.7 U	11.3 U	11.6 U	10.5 U	10.8 U	10.8 U	10.7 U	11.2 U	11.8 U	10.5 U	11.1 U	10.6 U	11.4 U
Titanium	mg/kg	1230	1120	1170	1390	1270	1150	992	1130	1260	1510	1570	1500	1560	1040	1410
Antimony	mg/kg	0.265 J	0.092 J	0.218 UJ	0.224 UJ	0.232 UJ	0.212 UJ	0.22 UJ	0.216 UJ	0.214 UJ	0.336 J	0.196 J	0.216 UJ	0.109 J	0.211 UJ	0.229 R
Arsenic	mg/kg	5.17 J	4.39 J	4.85	5.16	6.8	5.07	4.33	4.7	4.05	13.1 J	6.95 J	3.32 J	8.07 J	6.27 J	6.85 J
Beryllium	mg/kg	0.643	0.44	0.489	0.691	0.839	0.437	0.445	0.537	0.344	1.04	0.937	0.438 J	0.984	0.495	0.677
Barium	mg/kg	81.4 J	81.9 J	98.3 J	101	130	110 J	84.9	85.4	77.8 J	161 J	171 J	155	156 J	57.8 J	131
Boron	mg/kg	6.19	2.46 J	11.1	5.66 U	5.79 U	10.2	5.38 U	5.4 U	10.8	5.59 U	9.71	5.24 U	5.56 U	5.32 U	15.5
Cadmium	mg/kg	0.25	0.19	0.104 J	0.157	0.966	0.119	0.154	0.125	0.136	0.564 J	0.166 J	0.201	0.155 J	0.11 J	0.348 J
Chromium	mg/kg	25.1	15.6	16.6 J	20.6	31.9	19.4 J	20.2	16.9	13 J	45.6 J	27.9 J	18.3 J	27.5 J	15.4 J	31.3 J
Cobalt	mg/kg	6.85 J	4.91 J	5.91 J	7.13 J	8.98 J	5.75 J	4.96 J	5.13 J	4.81 J	11.9	8.13	6.87 J	7.77	4.89	9.75 J
Copper	mg/kg	12 J	8.61 J	9.83 J	8.44 J	14.3 J	11.7 J	8.14 J	7.62 J	7.71 J	22.9	10.6	14.3 J	10.3	5.24	15.9
Vanadium	mg/kg	45 J	30.4 J	33.5 J	41.4	60.2	33.5 J	33.5	33.1	29 J	80.6 J	54.7 J	57.1 J	53.5 J	34.5 J	46.5 J
Zinc	mg/kg	61.9	59.8	48.9	59	72.9	66.5	48.1	43.9	64.2	122 J	79.1 J	62.1	76.8 J	66.1 J	79.1
Zirconium	mg/kg	3.58 J	5.34 U	1.28 J	4.26 J	5.7 J	1.54 J	5.38 U	5.4 U	5.35 U	3.78 J	5.58 J	1.13 J	4.17 J	1.68 J	3.16 J
Calcium	mg/kg	8900	6480	3970	8340	10900	3570	5610	3970	10500	2820	15500	4150	2830	1620	79500 J
Phosphorus	mg/kg	391	402	309	345	317	387	437	343	483	358	521	690 J	380	229	527
Selenium	mg/kg	0.12 J	0.122 J	0.0985 J	0.11 J	0.168 J	0.232 J	0.17 J	0.124 J	0.0872 J	0.295 J	0.147 J	0.0896 J	0.138 J	0.181 J	0.258 J
Chromium VI	mg/kg	0.39 J	0.39 J	1.1 U	1.1 U	1.2 U	2.5	1.1 U	1.1 U	1.1 U	1.2 U	1.2 U	0.4 J	1.1 U	1.1 U	1.2 U
Perchlorate (314.0)	ug/kg	33.7 U	33.3 U	33 U	34.3 U	35.1 U	32.7 U	32.9 U	33.1 U	33.4 U	34.6 U	36 U	32.7 U	34 U	31.9 U	34.8 U
Perchlorate (6850)	ug/kg	--	--	--	--	--	--	5.5 U	--	--	--	--	--	--	5.3 U	--
Percent Moisture	%	10.9	10	9	12.5	14.5	8.2	8.9	9.3	10.2	13.2	16.6	8.2	11.8	6	13.7
pH	pH unit	8.53	8.76	8.53	7.81	7.67	8.21	8.39	8.47	8.39	7.6	6.98	7.19	7.44	7.36	8.51

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-5B

Sample Name		SL-300-SA5B-SS-0.0-0.5	SL-301-SA5B-SS-0.0-0.5	SL-301-SA5B-SB-4.0-5.0	SL-301-SA5B-SB-7.5-8.5	SL-302-SA5B-SS-0.0-0.5	SL-303-SA5B-SS-0.0-0.5	SL-304-SA5B-SS-0.0-0.5	SL-304-SA5B-SB-3.0-4.0	SL-306-SA5B-SS-0.0-0.5	SL-307-SA5B-SS-0.0-0.5	SL-307-SA5B-SB-4.0-5.0	SL-307-SA5B-SB-9.0-10.0	SL-307-SA5B-SB-14.0-15.0	SL-308-SA5B-SS-0.0-0.5	SL-308-SA5B-SB-4.0-5.0
Sample Date		12/10/2010	12/13/2010	01/13/2011	01/13/2011	12/15/2010	12/15/2010	12/16/2010	03/09/2011	12/09/2010	12/08/2010	01/21/2011	01/21/2011	01/21/2011	12/08/2010	01/21/2011
Lab SDG		DE034	DE036	DE060	DE060	DE041	DE041	DE043	DE101	DE032	DE032	DE066	DE066	DE066	DE031	DE066
Start Depth		0	0	4	7.5	0	0	0	3	0	0	4	9	14	0	4
End Depth		0.5	0.5	5	8.5	0.5	0.5	0.5	4	0.5	0.5	5	10	15	0.5	5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Nitrate	mg/kg	--	--	--	--	--	--	--	2.1	--	--	1.5 J	1.6 J	1.5 J	--	1.9
Fluoride	mg/kg	4 J	2.6 J	2.4	3.4	1.1 UJ	2.1 J	1.1	3.3 J	2.1	3.2	4.5 J	7.7 J	3.8 J	1.9	2.4 J
Cyanide	mg/kg	--	--	--	--	--	--	--	0.57 U	--	--	0.55 U	0.6 U	0.61 U	--	0.56 U
Aluminum	mg/kg	22600	19100	22700	16800	16700	26100	14800	29100	13300	13800	27700	35800	31800	14000	13400
Iron	mg/kg	29700	28700	27900	21100	22000	26700	17300	38700	19300	17700	26900	34900	32600	18800	15400
Lead	mg/kg	9.92 J	15.3 J	7.55	5.81	32.4 J	13.5 J	21.8 J	19.2 J	6.01 J	5.7 J	6.07 J	11.1 J	9.41 J	6.44 J	4.89 J
Lithium	mg/kg	26.6	34.3	36.9	37.5	18	20.7	17.4	53.2	18.3	16	23.1	26.3	28	19.1	19.4
Magnesium	mg/kg	7450	6140	6030	4340	4540	5350	3400	8930	4180	3900	4290	7340	7350	3920	3220
Manganese	mg/kg	343	397	284	197	302	333	315	441	234	331	254	358	316	302	200
Mercury	mg/kg	0.0053 J	0.149	0.112 U	0.0056 J	0.108 U	0.0391 J	0.0058 J	0.0234 J	0.107 U	0.0143 J	0.0623 J	0.0112 J	0.018 J	0.0121 J	0.108 U
Molybdenum	mg/kg	0.408 J	0.834 J	0.384	0.483	0.437 J	0.826 J	1.16 J	0.623	0.951 J	1.7 J	0.523	0.639	0.346	0.628 J	0.406
Nickel	mg/kg	18.5 J	24.4 J	16.3	11	17.3 J	20.6 J	19.5 J	39.5 J	12.3 J	15.3 J	12.4	23.9	21.6	12	10.2
Potassium	mg/kg	4990 J	3500	2290	1600	3220 J	4020 J	3290	2140	2820	2400	1700 J	3530 J	3630 J	2770 J	2620 J
Silver	mg/kg	0.019 J	3.63 J	0.054 J	0.106 J	0.402 J	0.0687 J	0.13 J	0.206	0.0269 J	0.0263 J	0.0356 J	0.0581 J	0.0449 J	0.0219 J	0.0281 J
Sodium	mg/kg	163	133	195	156	185	138	81.4 J	470	318	187	191	380	316	84.6 J	92.8 J
Strontium	mg/kg	120 J	23.7	27.5	13.9	27.5	34.9	24.2	40.6	28.1 J	34.9 J	25.7	38.1	52.4	19.8	17.4
Thallium	mg/kg	0.363 J	0.335	0.322	0.222	0.305 J	0.411 J	0.462 J	0.368 J	0.294 J	0.231 J	0.246 J	0.369 J	0.325 J	0.23	0.231 J
Tin	mg/kg	11.9 U	10.6 U	3.01 J	2.48 J	11.1 U	11.6 U	10.3 U	11.1 U	10.6 U	10.5 U	10.7 U	11.8 U	12.1 U	10.5 U	10.9 U
Titanium	mg/kg	1540	1500	1370	1060	1310	1580	1040	1380	1070	962	1350	1100	1620	1100	1060
Antimony	mg/kg	0.232 R	0.12 J	0.152 J	0.0737 J	0.153 J	0.243 J	0.208 UJ	0.196 J	2.07 J	0.212 UJ	0.22 R	0.242 UJ	0.242 UJ	0.218 UJ	0.216 R
Arsenic	mg/kg	6.39 J	8.79 J	6.61	4.93	4.47 J	6.98 J	7.13 J	15.4 J	5.21	5.65	4.78 J	7.94 J	5.61 J	5.08	3.72 J
Beryllium	mg/kg	0.658	0.915 J	0.788	0.6	0.471	0.856	0.74 J	1.84	0.467	0.631	0.765 J	0.976 J	0.819 J	0.511	0.502 J
Barium	mg/kg	120	167 J	129	68.6	197 J	178 J	172 J	181 J	93.8 J	101 J	100	147	132	94.4 J	80.7
Boron	mg/kg	16	4.44 J	27.8 U	5.69 U	5.57 U	5.78 U	7.57	7.65 J	4.31 J	3.2 J	1.37 J	5.46 J	7.07	10.8	1.65 J
Cadmium	mg/kg	0.349 J	0.902 J	0.171	0.0663 J	0.401 J	0.278 J	0.561 J	0.142 J	0.127 J	0.167 J	0.11 U	0.182	0.341	0.137	0.0821 J
Chromium	mg/kg	29.7 J	38.1 J	25.5	19.2	21.8 J	35.4 J	28.2 J	43.7	23 J	25.3 J	23.5 J	45.5 J	39.2 J	20.2 J	15.6 J
Cobalt	mg/kg	9.12 J	9.42 J	6.25	4.32	7.99	9.57	9.91 J	16.4	6.13 J	6.07 J	7.43	13.8	10.2	6.26 J	5.15
Copper	mg/kg	14.8	24.2 J	13.2	9.32	14.8	15.2	15.4 J	25.3 J	10.7	9.65	8.11	19	18.1	8.98 J	8.06
Vanadium	mg/kg	49.3 J	62.7	44.1	35.4	54.2 J	69.1 J	50.5 J	79.7	40.8 J	38.5 J	47.4	79.9	71.6	37.6 J	30.4
Zinc	mg/kg	81.3	168	65.7	46.2	129 J	90.8 J	102	121 J	78.7 J	52.5 J	39.1	65.7	65.6	66.9	51.2
Zirconium	mg/kg	3.15 J	1.67 J	2.28 J	1.79 J	3.22 J	4.92 J	0.926 J	1.28 J	1.74 J	2.5 J	5.33 U	5.74 J	6.03 J	2.02 J	5.45 U
Calcium	mg/kg	63500 J	4310	3590	2710	4530	4360	2900	5590	4890	4360	2260	8060	22800	3770	1830
Phosphorus	mg/kg	540	495	238	213	658	278	320	173	461	510	234 J	263 J	340 J	327	297 J
Selenium	mg/kg	0.229 J	0.164 J	0.0836 J	0.455 U	0.141 J	0.197 J	0.183 J	0.143 J	0.204 J	0.176 J	0.127 J	0.0891 J	0.126 J	0.111 J	0.108 J
Chromium VI	mg/kg	1.2 U	1.1 U	0.25 J	0.6 J	1.1 U	1.2 U	0.44 J	0.51 J	0.32 J	1.1 U	0.48 J	0.37 J	0.5 J	1.1 U	0.5 J
Perchlorate (314.0)	ug/kg	36.2 U	32.9 U	33.7 U	34.8 U	33.8 U	35 U	31.8 U	34.6 U	11.6 J	32.8 U	33.3 U	36.2 U	36.7 U	32.8 U	34 U
Perchlorate (6850)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5.7 U
Percent Moisture	%	17.1	8.8	10.9	13.8	11.2	14.4	5.8	13.3	9.3	8.6	9.8	17.2	18.3	8.4	11.8
pH	pH unit	7.09	7.48	7.38	7.86	6.94	7.3	6.99	7.87	8.73	8.38	8.28	8.3	7.97	8.33	7.57

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-5B

Sample Name		SL-308-SA5B-SB-9.0-10.0	SL-308-SA5B-SB-14.0-15.0	SL-309-SA5B-SS-0.0-0.5	SL-310-SA5B-SS-0.0-0.5	SL-311-SA5B-SS-0.0-0.5	SL-312-SA5B-SS-0.0-0.5	SL-313-SA5B-SB-4.0-5.0	SL-313-SA5B-SB-9.0-10.0	SL-314-SA5B-SS-0.0-0.5	SL-314-SA5B-SB-4.0-5.0	SL-315-SA5B-SS-0.0-0.5	SL-315-SA5B-SB-3.0-4.0	SL-316-SA5B-SS-0.0-0.5	SL-316-SA5B-SB-4.5-5.5	SL-319-SA5B-SS-0.0-0.5
Sample Date		01/21/2011	01/21/2011	12/14/2010	12/14/2010	12/14/2010	12/14/2010	02/08/2011	02/08/2011	02/09/2011	02/08/2011	02/08/2011	02/10/2011	02/08/2011	02/09/2011	02/09/2011
Lab SDG		DE066	DE066	DE038	DE038	DE038	DE038	DE078	DE078	DE079	DE078	DE078	DE080	DE078	DE079	DE079
Start Depth		9	14	0	0	0	0	4	9	0	4	0	3	0	4.5	0
End Depth		10	15	0.5	0.5	0.5	0.5	5	10	0.5	5	0.5	4	0.5	5.5	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Nitrate	mg/kg	1.5 J	1.3 J	--	--	--	--	1.6 J	0.99 J	1.6 U	5	1.6 U	1 J	1.6 U	1.6	--
Fluoride	mg/kg	2.5 J	3 J	3.4	3.8	1.8	4.5	1.1	1.5	3.1	2.1 J	1.7 J	3.7	2.2	3.3	2.5
Cyanide	mg/kg	0.53 U	0.54 U	--	--	--	--	0.55 U	0.56 U	0.52 U	0.53 U	0.53 U	0.54 U	0.51 U	0.53 U	--
Aluminum	mg/kg	15200	12700	10800	11400	12200	11400	14900	14800	13600	12700	12600	12200	12800	16800	13700
Iron	mg/kg	20600	16800	18000	19400	17800	18600	20800	20400	16500	19400	18100	19400	18300	21300	18200
Lead	mg/kg	5.39 J	7.03 J	5.25	7.48	8.67	6.64	3.99	5.15	3.76 J	4.69	4.92	6.66 J	4.14	6.38 J	4.27 J
Lithium	mg/kg	21	24.2	19.1	21	15.1	22.9	12.1	21.1	14.2	22.1	16.2	27.6	16	21.6	15.9
Magnesium	mg/kg	3810	3950	4380 J	4640 J	3850 J	4330 J	4580	4090	3510	3900	4200	4870	3760	4070	3760
Manganese	mg/kg	1490	214	254 J	273 J	320 J	261 J	228	252	225	248	222	249 J	226	285	229
Mercury	mg/kg	0.11 U	0.109 U	0.0061 J	0.0067 J	0.0132 J	0.0077 J	0.0197 J	0.0091 J	0.105 U	0.006 J	0.0126 J	0.0053 J	0.0056 J	0.0046 J	0.0198 J
Molybdenum	mg/kg	0.489	0.47	0.734	0.646	1.16	0.684	1.63	0.612	1.68 J	0.498	0.895	0.422	0.762	0.538 J	1.04 J
Nickel	mg/kg	12.4	11.7	9.84	10.7	13.8	11.9	12 J	8.85 J	12.4 J	8 J	9.64 J	9.96 J	9.2 J	9.56 J	10.3 J
Potassium	mg/kg	2870 J	2850 J	2790 J	2900 J	2510 J	2880 J	2700 J	2860 J	2160 J	2890 J	2630 J	2830 J	2470 J	3000 J	2560 J
Silver	mg/kg	0.0309 J	0.0249 J	0.0146 J	0.0217 J	0.103 J	0.0648 J	0.0237 J	0.0255 J	0.0266 J	0.0136 J	0.0447 J	0.0695 J	0.0245 J	0.0337 J	0.0352 J
Sodium	mg/kg	101 J	123	483	388	389	972	271	485	126	783	273	302	157	187	208
Strontium	mg/kg	24.7	15.1	19.2	23.3	57	23.1	41	23.8	39.9	22.7	33.1	16.5	29.3	22.5	33.5
Thallium	mg/kg	0.241 J	0.285 J	0.256	0.241	0.198	0.197	0.133	0.236	0.215	0.227	0.192	0.326	0.167	0.215	0.176
Tin	mg/kg	10.9 U	11 U	10.3 U	10.3 U	10.7 U	10.4 U	10.9 U	11 U	10.8 U	10.9 U	10.6 U	10.6 U	10.2 U	10.4 U	10.4 U
Titanium	mg/kg	1270	1180	1160 J	1160 J	997 J	1110 J	920	1040	949	1040	977	1080	925	1240	1000
Antimony	mg/kg	0.21 R	0.221 UJ	0.318 J	0.242 J	0.251 J	0.142 J	0.237 J	0.11 J	0.137 J	0.0833 J	0.277 J	0.0788 J	0.123 J	0.205 UJ	0.144 J
Arsenic	mg/kg	4 J	3.74 J	4.83 J	5.32 J	4.91 J	4.44 J	7.49	3.81	4.36	3.25	3.73	6.02 J	3.52	3.96	3.81
Beryllium	mg/kg	0.549 J	0.477 J	0.404	0.498	0.4	0.436	0.374	0.444	0.326	0.394	0.368	0.559	0.352	0.492	0.354
Barium	mg/kg	100	88.3	98.2 J	132 J	100 J	105 J	99.6	82	413 J	74.9	79	86.8	82.4	88.8 J	87.8 J
Boron	mg/kg	2.51 J	1.64 J	9.14	9.04	9.87	9.81	3.8 J	1.82 J	2.18 J	1.92 J	2.5 J	1.79 J	1.91 J	5.18 UJ	2.23 J
Cadmium	mg/kg	0.156	0.0662 J	0.114	0.249	0.307	0.241	0.303	0.137	0.145	0.117	0.199	0.129	0.204	0.112	0.296
Chromium	mg/kg	20.9 J	19.3 J	17.9	18.8	29.7	22.7	22.1 J	15.5 J	21 J	13.1 J	16 J	16.7 J	16.6 J	15.7 J	17.1 J
Cobalt	mg/kg	5.5	6.24	5.45 J	5.12 J	5.35 J	6.05 J	5.65	5.14	6.86 J	4.4	4.69	5.34 J	4.8	5.61 J	4.7 J
Copper	mg/kg	9.62	10.3	11	10.5	13.5	11.7	14.9 J	7.81 J	8.64	8.51 J	8.43 J	7.62 J	8.57 J	9.7	9.37
Vanadium	mg/kg	35.1	35.7	35.5 J	40 J	36 J	40.2 J	44.6	30.4	41.4 J	26.4	31.6	34.3 J	32.2	33.8 J	33.4 J
Zinc	mg/kg	48.6	60.1	73.9	68.2	182	82	48	59.9	50.6	66.6	84.1	76.6 J	50.9	63.5	54.9
Zirconium	mg/kg	5.45 U	5.52 U	1.25 J	1.64 J	3.31 J	1.6 J	5.44 U	5.48 U	3.72 J	5.43 U	5.3 U	5.28 U	5.09 U	5.18 UJ	5.19 U
Calcium	mg/kg	5820	3040	3950 J	3890 J	6910 J	4280 J	4900	6330	7740 J	7780	8280	4410	4760	2660 J	5710 J
Phosphorus	mg/kg	495 J	360 J	417	423	503	416	742 J	742 J	789 J	375 J	487 J	464	432 J	320 J	570 J
Selenium	mg/kg	0.105 J	0.136 J	0.135 J	0.0956 J	0.232 J	0.157 J	1.42	0.0981 J	0.21 J	0.0838 J	0.273 J	0.172 J	0.165 J	0.0847 J	0.301 J
Chromium VI	mg/kg	0.3 J	0.23 J	1 U	1.1 U	1.1 U	1.1 U	0.22 J	0.29 J	1.1 U	1.1 U	1.1 U	1.1 U	1 U	1.1 U	0.32 J
Perchlorate (314.0)	ug/kg	33 U	33.1 U	31.3 U	31.6 U	32.5 U	31.6 U	33.3 U	33.5 U	32.4 U	33.2 U	31.8 U	32.3 U	31.4 U	32 U	32.1 U
Perchlorate (6850)	ug/kg	--	--	--	--	--	--	--	--	5.4 U	5.5 U	5.3 U	--	--	--	--
Percent Moisture	%	9.2	9.4	4	5.2	7.7	5	9.9	10.5	7.5	9.7	5.6	7.2	4.6	6.3	6.4
pH	pH unit	7.85	7.84	8.79	8.82	9.31	9.23	7.78	8.39	6.84	8.19	8.11	7.38	7.87	7.66	8.41

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-5B

Sample Name		SL-319-SA5B-SB-4.0-5.0	SL-321-SA5B-SS-0.0-0.5	SL-321-SA5B-SB-3.0-4.0	SL-322-SA5B-SS-0.0-0.5	SL-322-SA5B-SB-3.0-4.0	SL-323-SA5B-SS-0.0-0.5	SL-323-SA5B-SB-4.0-5.0	SL-323-SA5B-SB-11.0-12.0	SL-324-SA5B-SS-0.0-0.5	SL-324-SA5B-SB-4.0-5.0	SL-324-SA5B-SB-8.0-9.0	SL-326-SA5B-SS-0.0-0.5	SL-326-SA5B-SB-9.0-10.0	SL-326-SA5B-SB-14.0-15.0	SL-326-SA5B-SB-18.5-19.5
Sample Date		02/10/2011	02/10/2011	02/17/2011	02/10/2011	02/17/2011	02/09/2011	02/15/2011	02/15/2011	02/09/2011	02/14/2011	02/14/2011	02/09/2011	02/10/2011	02/10/2011	02/10/2011
Lab SDG		DE080	DE080	DE084	DE080	DE084	DE079	DE082	DE082	DE079	DE081	DE081	DE079	DE080	DE080	DE080
Start Depth		4	0	3	0	3	0	4	11	0	4	8	0	9	14	18.5
End Depth		5	0.5	4	0.5	4	0.5	5	12	0.5	5	9	0.5	10	15	19.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Nitrate	mg/kg	2.7	--	2.5	--	2.1	--	18.4	2.9	--	5.7	4	--	5	1.8 U	1.7 U
Fluoride	mg/kg	3.5	0.86 J	7.8 J	3.5	2.3 J	4.4	14.3 J	1.5 J	1.9	4.3	4.7	4	4.3	4.6	3.4
Cyanide	mg/kg	0.54 U	--	0.57 U	--	0.53 U	--	0.58 U	0.55 U	--	0.53 U	0.54 U	--	0.54 U	0.58 U	0.55 U
Aluminum	mg/kg	12100	11300	23600	12100	11700	12300	25300	11200	12000	10500	10000	14700	8610	17900	15000
Iron	mg/kg	18600	27900	39200	19100	18100	19100	28900	19000	14900	16000	18200	18400	16700	23600	21600
Lead	mg/kg	6.78 J	10.3 J	19.4 J	39.1 J	6.38 J	7.14 J	13.3 J	549 J	4.97 J	7.57 J	7.85 J	7.64 J	10.8 J	7.89 J	6.45 J
Lithium	mg/kg	22.7	14.2	27.2	25	14.4	21.9	22.6 J	21.2 J	11.7	16.2	25.3	17	11.3	26.3	23.2
Magnesium	mg/kg	4430	3680	7390	4660	2730	4440	5170	3310	3310	3110 J	4090 J	3940	3160	5100	4310
Manganese	mg/kg	241 J	322 J	239	277 J	149	263	473 J	233 J	185	163	215	257	193 J	281 J	329 J
Mercury	mg/kg	0.106 U	0.0288 J	0.11 U	0.0154 J	0.103 U	0.0124 J	0.0116 J	0.0203 J	0.0193 J	0.0038 J	0.0047 J	0.162	0.0426 J	0.0542 J	0.0182 J
Molybdenum	mg/kg	0.479	1.59	0.788 J	0.83	0.58 J	0.659 J	0.444 J	1.52 J	1.52 J	0.376	0.2	1.39 J	0.785	0.515	0.462
Nickel	mg/kg	11.2 J	13.1 J	18.1 J	12.9 J	4.37 J	11.3 J	23.7 J	21.1 J	12.5 J	10.1	6.84	14.9 J	12.7 J	13.2 J	9.59 J
Potassium	mg/kg	2820 J	2290 J	4530 J	2890 J	2690 J	2900 J	2990 J	3080 J	1900 J	2350	2750	2580 J	2210 J	2570 J	2990 J
Silver	mg/kg	0.0767 J	0.114	0.112 UJ	0.0637 J	0.105 UJ	0.0594 J	0.0446 J	0.18 J	0.0454 J	0.0464 J	3.04 J	0.0632 J	0.0695 J	0.0403 J	0.0275 J
Sodium	mg/kg	253	475	700	895	502	1810	2820	686	575	932	925	958	1700	1090	309
Strontium	mg/kg	15.4	61.7	33.1	20.3	11.1	32.1	40	21.4	56.4	11.4 J	18.5 J	29.3	40.3	27.1	21.3
Thallium	mg/kg	0.379	0.188	0.39	0.334	0.252	0.223	0.476 J	0.392 J	0.154	0.347 J	0.232 J	0.194	0.181	0.361	0.312
Tin	mg/kg	10.5 U	10.6 U	11.1 U	10.2 U	10.7 U	10.3 U	11.4 U	10.8 U	10.4 U	10.4 U	15.8	10.4 U	11.1 U	11.6 U	10.9 U
Titanium	mg/kg	1010	809	1620	1040	1020	1080	1270	975	846	871 J	983 J	1060	696	1210	1110
Antimony	mg/kg	0.212 UJ	0.182 J	0.223 UJ	0.139 J	0.209 UJ	0.0986 J	0.234 J	11.8 J	0.0991 J	0.105 J	0.209 UJ	0.177 J	0.134 J	0.127 J	0.154 J
Arsenic	mg/kg	6.25 J	5.82 J	14.5 J	5.41 J	5.73 J	3.74	8.89 J	12.6 J	4.01	6	3.71	3.76	4.98 J	5.07 J	5.84 J
Beryllium	mg/kg	0.583	0.401	1.28 J	0.512	0.512 J	0.37	1.05 J	0.773 J	0.354	0.681	0.382	0.427	0.402	0.787	0.558
Barium	mg/kg	96.1	119	164 J	113	80.7 J	85.2 J	183	137	80.6 J	95.1 J	87.3 J	97.3 J	115	132	96
Boron	mg/kg	1.87 J	8.6	27.6 U	3.94 J	5.34 U	11 J	5.71 U	5.39 U	4.03 J	1.78 J	1.71 J	8.02	2.83 J	2.09 J	1.67 J
Cadmium	mg/kg	0.152	0.337	0.113 U	1.07	0.105 U	0.518	0.218 J	0.874 J	0.225	0.152 J	0.0708 J	0.665	0.246	0.153	0.106 J
Chromium	mg/kg	17.3 J	19.5 J	43.5 J	22.7 J	9.28 J	17.8 J	41.9 J	31.1 J	26 J	15.6 J	13.1 J	20.6 J	15 J	23.8 J	16.4 J
Cobalt	mg/kg	5.87 J	5.29 J	7.61 J	6.16 J	4.37 J	5.27 J	12.3 J	7.84 J	4.97 J	5.32 J	3.8 J	5.78 J	5.59 J	6.84 J	6.02 J
Copper	mg/kg	8.71 J	14.2 J	31.8 J	10.1 J	2.76 J	11.7	17.4 J	19.6 J	9.33	9.26 J	5.68 J	126	20.4 J	9.44 J	7.14 J
Vanadium	mg/kg	36.2 J	37.6 J	74.5 J	40.4 J	24.6 J	33.2 J	78.3 J	46.5 J	35.8 J	35.3 J	26 J	37.6 J	93.3 J	44.2 J	34.6 J
Zinc	mg/kg	83.9 J	87.2 J	180 J	115 J	80.6 J	211	96	133	48.6	75.8	54.8	250	79.9 J	63.4 J	124 J
Zirconium	mg/kg	5.25 U	2.75 J	2.02 J	5.08 U	1.45 J	5.13 UJ	3.65 J	1.48 J	4.02 J	5.18 U	5.27 U	2.92 J	2.96 J	5.8 U	5.44 U
Calcium	mg/kg	4480	16300	4380	5980	1320	8220 J	4520	4930	8840 J	1650 J	6580 J	5840 J	14000	4630	2850
Phosphorus	mg/kg	340	617	405	433	147	502 J	220	380	549 J	174 J	343 J	468 J	382	333	273
Selenium	mg/kg	0.153 J	1.66	0.447 U	0.204 J	0.419 U	0.103 J	0.14 J	0.181 J	2.43	0.164 J	0.106 J	0.142 J	0.1 J	0.102 J	0.066 J
Chromium VI	mg/kg	0.4 J	0.37 J	0.23 J	0.27 J	1.1 U	0.59 J	0.51 J	0.37 J	0.23 J	0.25 J	1.1 U	0.25 J	0.66 J	0.35 J	1.1 U
Perchlorate (314.0)	ug/kg	32.2 U	31.7 U	34.2 U	31.7 U	32.1 U	31.4 U	34.9 UJ	33.3 UJ	32 U	32.3 U	32.2 U	31.7 U	33.6 U	35.1 U	33.3 U
Perchlorate (6850)	ug/kg	--	5.3 U	--	--	--	--	--	5.5 U	--	--	5.4 U	--	--	--	--
Percent Moisture	%	6.7	5.3	12.2	5.3	6.4	4.5	14.1	9.9	6.2	7.1	6.9	5.4	10.6	14.6	9.9
pH	pH unit	8.3	8.75	7.25	9.33	6.47	8.88	8.04	9.43	8.46	8.55	8.59	7.42	8.26	8.08	7.51

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-5B

Sample Name		SL-327-SA5B-SS-0.0-0.5	SL-327-SA5B-SB-4.0-5.0	SL-328-SA5B-SS-0.0-0.5	SL-328-SA5B-SB-3.5-4.5	SL-329-SA5B-SS-0.0-0.5	SL-329-SA5B-SB-4.0-5.0	SL-330-SA5B-SS-0.0-0.5	SL-330-SA5B-SB-4.0-5.0	SL-331-SA5B-SS-0.0-0.5	SL-331-SA5B-SB-3.0-4.0	SL-332-SA5B-SS-0.0-0.5	SL-332-SA5B-SB-4.0-5.0	SL-333-SA5B-SS-0.0-0.5	SL-333-SA5B-SB-4.0-5.0	SL-334-SA5B-SS-0.0-0.5
Sample Date		02/08/2011	02/15/2011	02/08/2011	02/09/2011	02/10/2011	02/15/2011	02/10/2011	02/15/2011	02/10/2011	02/17/2011	02/10/2011	02/16/2011	02/10/2011	02/16/2011	02/10/2011
Lab SDG		DE078	DE082	DE078	DE079	DE080	DE082	DE080	DE082	DE080	DE084	DE080	DE083	DE080	DE083	DE080
Start Depth		0	4	0	3.5	0	4	0	4	0	3	0	4	0	4	0
End Depth		0.5	5	0.5	4.5	0.5	5	0.5	5	0.5	4	0.5	5	0.5	5	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Nitrate	mg/kg	--	8.3	--	0.95 J	13.9	8.3	1.6 U	2	24	4.4	--	2.4	--	3.4	--
Fluoride	mg/kg	1.5 J	5.4 J	1.9	3.6	2.5	2.6 J	2	4.8 J	3.8	1.2	1.1	2.9 J	1.1 U	3.8 J	3.4
Cyanide	mg/kg	--	0.53 U	--	0.53 U	0.52 U	0.54 U	0.51 U	0.55 U	0.52 U	0.54 U	--	0.54 U	--	0.55 U	--
Aluminum	mg/kg	11400	12400	13900	13400	12300	12100	12300	11500	11800	14800	8820	11400	5420	11800	12000
Iron	mg/kg	19500	19100	19000	20100	19800	17300	17300	18600	17900	18600	16100	17300	14000	14100	21300
Lead	mg/kg	4.3	7.55 J	4.24	4.76 J	5.34 J	7.94 J	7.9 J	7.48 J	5.61 J	7.12 J	4.43 J	6.63 J	2.9 J	5.25 J	7.93 J
Lithium	mg/kg	15.3	23.7 J	17.2	24	25.7	21.2 J	17.8	18.9 J	24	21	11.6	15.6 J	6.6	13.2 J	18.7
Magnesium	mg/kg	3980	3960	4100	4280	4710	2960	4010	2920	4440	3420	3190	3180	2260	2500	3330
Manganese	mg/kg	225	224 J	278	246	279 J	152 J	233 J	273 J	283 J	316	180 J	197	132 J	116	237 J
Mercury	mg/kg	0.102 U	0.106 U	0.102 U	0.0116 J	0.008 J	0.108 UJ	0.0091 J	0.108 U	0.0133 J	0.105 U	0.013 J	0.105 U	0.0125 J	0.109 U	0.0159 J
Molybdenum	mg/kg	0.41	0.448 J	0.741	0.36 J	0.483	0.451 J	1.09	0.509 J	0.459	0.91 J	0.204	0.582 J	0.199	0.113 UJ	1.24
Nickel	mg/kg	7.56 J	11.4 J	8.48 J	8.97 J	10.2 J	12.8 J	11.8 J	13.7 J	9.91 J	13.7 J	5.93 J	10.2 J	4.86 J	4.76 J	11 J
Potassium	mg/kg	2650 J	2980 J	2730 J	2940 J	2960 J	3050 J	2760 J	3500 J	2890 J	3470 J	2090 J	2500 J	1480 J	2050 J	2480 J
Silver	mg/kg	0.0249 J	0.0565 J	0.0296 J	0.0699 J	0.0272 J	0.0345 J	0.0465 J	0.036 J	0.0312 J	0.108 UJ	0.0272 J	0.0273 J	0.0162 J	0.0273 J	0.0491 J
Sodium	mg/kg	224	1310	241	182	352	153	531	310	484	131	192	144	226	715	1120
Strontium	mg/kg	26.2	14.2	34.6	15.4	20.1	14.5	34.2	10.7	21.5	20.4	31.4	18	19.7	10.2	16.7
Thallium	mg/kg	0.2	0.369 J	0.188	0.141	0.288	0.367 J	0.21	0.392 J	0.289	0.243	0.161	0.288 J	0.158	0.3 J	0.332
Tin	mg/kg	10.3 U	10.6 U	10.3 U	10.6 U	10.4 U	14.3 J	10 U	11.1 U	10.3 U	10.7 U	10.6 U	10.7 U	10.3 U	11.3 U	11 U
Titanium	mg/kg	993	1050	1000	1180	1040	930	962	997	1070	986	810	920	654	830	921
Antimony	mg/kg	0.0692 J	0.211 J	0.167 J	0.213 UJ	0.116 J	0.106 J	0.113 J	0.142 J	0.0956 J	0.215 UJ	0.0752 J	0.136 J	0.115 J	0.0824 J	0.13 J
Arsenic	mg/kg	2.75	5.96 J	3.54	4.13	4.51 J	4.16 J	4.74 J	5.61 J	4.73 J	5.64 J	2.65 J	5.06 J	1.38 J	3.96 J	5.55 J
Beryllium	mg/kg	0.317	0.657 J	0.35	0.459	0.489	0.676 J	0.401	0.803 J	0.47	0.753 J	0.317	0.564	0.187	0.268	0.54
Barium	mg/kg	81.5	113	74.7	67.8 J	89.9	119	87.3	159	88.7	142 J	89.6	82.9 J	62.4	51.1 J	103
Boron	mg/kg	1.33 J	5.32 U	1.44 J	5.32 UJ	3.02 J	5.45 U	4.01 J	5.57 U	3.69 J	5.33 U	2.22 J	6.2	1.48 J	1.04 J	3.23 J
Cadmium	mg/kg	0.157	0.189 J	0.144	0.0765 J	0.136	0.15 J	0.323	0.201 J	0.127	0.105 U	0.0721 J	0.0881 J	0.107	0.113 UJ	0.525
Chromium	mg/kg	13.4 J	19.4 J	16 J	14.5 J	19.4 J	17.4 J	22.6 J	22.8 J	17.8 J	20.6 J	13.9 J	16.8 J	7.34 J	11.9 J	17 J
Cobalt	mg/kg	5.55	6.31 J	4.79	4.62 J	5.22 J	6.79 J	5.12 J	7.45 J	5.32 J	6.56 J	4.18 J	4.43 J	4.41 J	2.26 J	6.11 J
Copper	mg/kg	9.54 J	10.1 J	7.46 J	7.18	9.45 J	9.11 J	14 J	10.4 J	7.79 J	10.6 J	7.06 J	8.56 J	8.73 J	4.12 J	11.1 J
Vanadium	mg/kg	33.9	42.1 J	30.3	27.3 J	34.2 J	34.9 J	34.8 J	43.8 J	34.1 J	38.1 J	34.3 J	45 J	32.7 J	24.8 J	39.1 J
Zinc	mg/kg	61.2	96	48.2	55.8	72.3 J	76.3 J	98.3 J	90.3	70 J	75.6 J	60 J	75.1 J	61.1 J	58.1 J	139 J
Zirconium	mg/kg	5.15 U	1.06 J	5.15 U	5.32 UJ	5.2 U	1.44 J	2.67 J	5.57 U	5.15 U	2.48 J	5.3 U	5.34 U	5.15 U	5.66 U	5.5 U
Calcium	mg/kg	5730	2120	6080	3640 J	4410	1990	4300	1400	8300	2040	3110	2860	2600	1390	2400
Phosphorus	mg/kg	527 J	311	441 J	307 J	668	354	497	274	406	369	499	330	423	158	451
Selenium	mg/kg	0.115 J	0.136 J	0.127 J	0.114 J	0.116 J	0.12 J	0.204 J	0.258 J	0.118 J	0.431 U	0.0768 J	0.231 J	0.0643 J	0.0977 J	0.829
Chromium VI	mg/kg	1 U	0.34 J	1 U	0.81 J	1.3	0.42 J	0.38 J	0.47 J	0.23 J	0.6 J	0.49 J	1.1 U	1.1 UJ	0.24 J	0.23 J
Perchlorate (314.0)	ug/kg	31.2 U	32.6 UJ	31.2 U	32.2 U	31.8 U	32.7 UJ	31.3 U	33.7 UJ	31.5 U	32.3 U	32.4 U	33 U	31.8 U	34.3 U	33.7 U
Perchlorate (6850)	ug/kg	--	--	--	--	--	5.5 U	--	5.6 U	--	--	--	--	--	--	--
Percent Moisture	%	3.9	7.9	3.8	6.9	5.8	8.3	4	11.1	4.9	7.1	7.5	9.1	5.8	12.5	10.9
pH	pH unit	7.95	8.55	7.86	7.57	8.22	7	8.8	8.25	8.46	6.59	7.98	8.23	8.64	7.8	9.02

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-5B

Sample Name		SL-335-SA5B-SS-0.0-0.5	SL-335-SA5B-SB-2.0-3.0	SL-336-SA5B-SB-4.0-5.0	SL-337-SA5B-SB-3.0-4.0
Sample Date		02/10/2011	02/16/2011	02/17/2011	02/17/2011
Lab SDG		DE080	DE083	DE084	DE084
Start Depth		0	2	4	3
End Depth		0.5	3	5	4
Chemical Name	Unit	Result	Result	Result	Result
Nitrate	mg/kg	--	3.7	3.8	2.6
Fluoride	mg/kg	2.4	3	10.2	4.7
Cyanide	mg/kg	--	0.54 U	0.57 U	0.56 U
Aluminum	mg/kg	10700	13000	11900	12800
Iron	mg/kg	16300	20700	17300	21800
Lead	mg/kg	4.35 J	6.93 J	8.49 J	6.7 J
Lithium	mg/kg	9.7	15.7 J	19.6	22.6
Magnesium	mg/kg	3350	4070	3220	4000
Manganese	mg/kg	190 J	192	292	250
Mercury	mg/kg	0.0499 J	0.103 U	0.115 U	0.108 U
Molybdenum	mg/kg	4.21	1.07 J	1.73 J	1.58 J
Nickel	mg/kg	11.2 J	6.2 J	14.4 J	12.9 J
Potassium	mg/kg	1860 J	2990 J	3330 J	4490 J
Silver	mg/kg	0.0293 J	0.0203 J	0.111 UJ	0.111 UJ
Sodium	mg/kg	728	473	118	179
Strontium	mg/kg	46.9	13.5	18.4	13.6
Thallium	mg/kg	0.14	0.41 J	0.238	0.216
Tin	mg/kg	10.7 U	10.8 U	11.5 U	11.2 U
Titanium	mg/kg	679	1270	1000	1100
Antimony	mg/kg	0.234 J	0.18 J	0.222 UJ	0.222 UJ
Arsenic	mg/kg	3.94 J	6.14 J	5.94 J	5.41 J
Beryllium	mg/kg	0.425	0.402	0.716 J	0.667 J
Barium	mg/kg	131	63.5 J	148 J	140 J
Boron	mg/kg	3.4 J	5.42 U	11.2	5.6 U
Cadmium	mg/kg	0.549	0.0459 J	0.113 U	0.113 U
Chromium	mg/kg	17.8 J	15.9 J	21.1 J	19.8 J
Cobalt	mg/kg	6.18 J	3.95 J	6.78 J	6.21 J
Copper	mg/kg	15 J	4.8 J	11.7 J	10.1 J
Vanadium	mg/kg	46.5 J	41.6 J	40.5 J	37 J
Zinc	mg/kg	58.3 J	64.7 J	90.8 J	79.9 J
Zirconium	mg/kg	5.33 U	5.42 U	2.46 J	1.25 J
Calcium	mg/kg	5220	2540	2210	1950
Phosphorus	mg/kg	1270	389	384	473
Selenium	mg/kg	7.48	0.183 J	0.444 U	0.443 U
Chromium VI	mg/kg	1.1 U	1.1 U	1.2 U	0.49 J
Perchlorate (314.0)	ug/kg	32.9 U	32.8 U	34.6 U	34.2 U
Perchlorate (6850)	ug/kg	--	--	--	--
Percent Moisture	%	8.9	8.6	13.4	12.4
pH	pH unit	9.1	8.47	6.66	7.11

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-5B

	Sample Name	SL-006-SA5B-SB-4.0-5.0	SL-006-SA5B-SB-5.0-6.0	SL-011-SA5B-SS-0.0-0.5	SL-014-SA5B-SS-0.0-0.5	SL-014-SA5B-SB-4.0-5.0	SL-015-SA5B-SB-4.0-5.0	SL-016-SA5B-SB-4.0-5.0	SL-016-SA5B-SB-9.0-10.0	SL-017-SA5B-SS-0.0-0.5	SL-017-SA5B-SB-4.0-5.0	SL-017-SA5B-SB-9.0-10.0	SL-018-SA5B-SS-0.0-0.5	SL-018-SA5B-SB-4.0-5.0
	Sample Date	12/21/2010	12/21/2010	12/09/2010	12/09/2010	01/20/2011	01/26/2011	01/26/2011	01/26/2011	12/08/2010	01/27/2011	01/27/2011	12/09/2010	01/26/2011
	Lab SDG	DE049	DE049	DE032	DE032	DE065	DE069	DE069	DE069	DE033	DE070	DE070	DE032	DE069
	Start Depth	4	5	0	0	4	4	4	9	0	4	9	0	4
	End Depth	5	6	0.5	0.5	5	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
Ethanol	ug/kg	540 U	600 U	550 U	560 U	570 U	580 U	570 U	550 U	550 U	580 U	550 U	550 U	580 U
Methanol	ug/kg	540 U	200 J	550 U	560 U	570 U	580 U	120 J	240 J	550 U	580 U	550 U	550 U	580 U
2-Propanol	ug/kg	540 U	600 U	550 U	560 U	570 U	580 U	570 U	550 U	550 U	580 U	550 U	550 U	580 U
Ethylene Glycol	mg/kg	14 U	15 U	14 U	14 U	14 U	15 U	14 U	14 U	14 U	14 U	14 U	14 U	15 U
Diethylene Glycol	mg/kg	14 U	15 U	14 U	14 U	14 U	15 U	14 U	14 U	14 U	14 U	14 U	14 U	15 U
Propylene glycol	mg/kg	14 U	15 U	14 U	14 U	14 U	15 U	14 U	14 U	14 U	14 U	14 U	14 U	15 U
o-Terphenyl	mg/kg	3.8 U	4.2 U	3.8 U	3.9 U	4 U	4.1 U	4 U	3.9 U	3.8 U	4 U	3.9 U	3.9 U	4.1 U
m-Terphenyl	mg/kg	3.8 U	4.2 U	3.8 U	3.9 U	4 U	4.1 U	4 U	3.9 U	3.8 U	4 U	3.9 U	3.9 U	4.1 U
p-Terphenyl	mg/kg	3.8 U	4.2 U	3.8 U	3.9 U	4 U	4.1 U	4 U	3.9 U	3.8 U	4 UJ	3.9 U	3.9 U	4.1 U
Formaldehyde	ug/kg	1600 U	1800 U	1200 J	1700 U	1700 U	1700 U	3600	4700	1600 U	1700 U	2600	1700 U	3500 U
2,6-Dinitrotoluene	ug/kg	160 U	180 U	160 U	170 U	140 U	140 U	140 U	130 U	160 U	140 U	130 U	170 U	140 U
2,4,6-Trinitrotoluene	ug/kg	160 U	180 U	160 U	170 U	140 U	140 U	140 U	130 U	160 U	140 U	130 U	170 U	140 U
RDX	ug/kg	160 U	180 U	160 U	170 U	140 U	140 U	140 U	130 U	160 U	140 U	130 U	170 U	140 U
4-Amino-2,6-Dinitrotoluene	ug/kg	160 U	180 U	160 U	170 U	140 U	140 U	140 U	130 U	160 U	140 U	130 U	170 U	140 U
HMX	ug/kg	410 U	450 U	410 U	420 U	340 U	350 U	340 U	330 U	410 U	350 U	330 U	410 U	350 U
2-Amino-4,6-Dinitrotoluene	ug/kg	160 U	180 U	160 U	170 U	140 U	140 U	140 U	130 U	160 U	140 U	130 U	170 U	140 U
Tetryl	ug/kg	160 UJ	180 UJ	160 U	170 U	140 U	140 U	140 U	130 U	160 U	140 U	130 U	170 U	140 U
Nitroglycerin	ug/kg	3300 U	3600 U	3300 U	3300 U	2700 U	2800 U	2700 U	2600 U	3300 U	2800 U	2700 U	3300 U	2800 U
2,6-Diamino-4-nitrotoluene	ug/kg	330 U	360 U	330 U	330 U	270 U	280 U	270 U	260 U	330 U	280 U	270 U	330 U	280 U
2,4-Diamino-6-nitrotoluene	ug/kg	330 U	360 U	330 U	330 U	270 U	280 U	270 U	260 U	330 U	280 U	270 U	330 U	280 U
PETN	ug/kg	3300 U	3600 U	3300 U	3300 U	2700 U	2800 U	2700 U	2600 U	3300 U	2800 U	2700 U	3300 U	2800 U
2-Nitrotoluene	ug/kg	160 U	180 U	160 U	170 U	140 U	140 U	140 U	130 U	160 U	140 U	130 U	170 U	140 U
3-Nitrotoluene	ug/kg	160 U	180 U	160 U	170 U	140 U	140 U	140 U	130 U	160 U	140 U	130 U	170 U	140 U
1,3,5-Trinitrobenzene	ug/kg	160 U	180 U	160 U	170 U	140 U	140 U	140 U	130 U	160 U	140 U	130 U	170 U	140 U
4-Nitrotoluene	ug/kg	160 U	180 U	160 U	170 U	140 U	140 U	140 U	130 U	160 U	140 U	130 U	170 U	140 U
2,4-Dinitrotoluene	ug/kg	160 U	180 U	160 U	170 U	140 U	140 U	140 U	130 U	160 U	140 U	130 U	170 U	140 U
Nitrobenzene	ug/kg	160 U	180 U	160 U	170 U	140 U	140 U	140 U	130 U	160 U	140 U	130 U	170 U	140 U
m-Dinitrobenzene	ug/kg	160 U	180 U	160 U	170 U	140 U	140 U	140 U	130 U	160 U	140 U	130 U	170 U	140 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-5B

	Sample Name	SL-018-SA5B-SB-9.0-10.0	SL-019-SA5B-SB-4.0-5.0	SL-020-SA5B-SS-0.0-0.5	SL-021-SA5B-SB-4.0-5.0	SL-021-SA5B-SB-9.0-10.0	SL-022-SA5B-SS-0.0-0.5	SL-022-SA5B-SB-2.0-3.0	SL-026-SA5B-SB-4.0-5.0	SL-026-SA5B-SB-9.0-10	SL-027-SA5B-SB-4.0-5.0	SL-027-SA5B-SB-8.0-9.0	SL-029-SA5B-SB-4.0-5.0	SL-029-SA5B-SB-9.0-10.0
	Sample Date	01/26/2011	01/20/2011	12/09/2010	01/27/2011	01/27/2011	12/08/2010	01/19/2011	12/17/2010	12/17/2010	12/15/2010	12/15/2010	01/20/2011	01/20/2011
	Lab SDG	DE069	DE065	DE032	DE070	DE070	DE032	DE064	DE045	DE045	DE041	DE041	DE065	DE065
	Start Depth	9	4	0	4	9	0	2	4	9	4	8	4	9
	End Depth	10	5	0.5	5	10	0.5	3	5	10	5	9	5	10
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Ethanol	ug/kg	560 U	550 U	550 U	560 U	560 U	550 U	510 U	560 U	550 U	600 U	550 U	570 U	560 U
Methanol	ug/kg	130 J	550 U	550 U	560 U	420 J	550 U	510 U	240 J	220 J	170 J	270 J	570 U	310 J
2-Propanol	ug/kg	560 U	550 U	550 U	560 U	560 U	550 U	510 U	560 U	550 U	600 U	550 U	570 U	560 U
Ethylene Glycol	mg/kg	14 U	14 U	14 U	14 U	14 U	14 U	13 U	14 U	14 UJ	15 U	14 U	14 U	14 U
Diethylene Glycol	mg/kg	14 U	14 U	14 U	14 U	14 U	14 U	13 U	14 U	14 UJ	15 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	14 U	14 UJ	15 UJ	14 UJ	14 U	14 U
o-Terphenyl	mg/kg	3.9 U	3.9 U	3.8 U	3.9 U	3.9 U	3.8 U	3.6 U	3.9 U	3.8 U	4.2 U	3.8 U	4 U	3.9 U
m-Terphenyl	mg/kg	3.9 U	3.9 U	3.8 U	3.9 U	3.9 U	3.8 U	3.6 U	3.9 U	3.8 U	4.2 U	3.8 U	4 U	3.9 U
p-Terphenyl	mg/kg	3.9 U	3.9 U	3.8 U	3.9 U	3.9 U	3.8 U	3.6 U	3.9 U	3.8 U	4.2 U	3.8 U	4 U	3.9 U
Formaldehyde	ug/kg	1400 J	1700 U	690 J	1700 U	9800	3600 J	1500 U	1700 U	1600 U	2400	3700	1700 U	6800
2,6-Dinitrotoluene	ug/kg	130 U	130 U	160 U	130 U	130 U	160 U	120 U	170 U	160 U	180 U	160 U	140 U	140 U
2,4,6-Trinitrotoluene	ug/kg	130 U	130 U	160 U	130 U	130 U	160 U	120 U	170 U	160 U	180 U	160 U	140 U	140 U
RDX	ug/kg	130 U	130 U	160 U	130 U	130 U	160 U	120 U	170 U	160 U	180 U	160 U	140 U	140 U
4-Amino-2,6-Dinitrotoluene	ug/kg	130 U	130 U	160 U	130 U	130 U	160 U	120 U	170 U	160 U	180 U	160 U	140 U	140 U
HMX	ug/kg	340 U	330 U	410 U	340 U	340 U	410 U	310 U	420 U	410 U	450 U	410 U	340 U	340 U
2-Amino-4,6-Dinitrotoluene	ug/kg	130 U	130 U	160 U	130 U	130 U	160 U	120 U	170 U	160 U	180 U	160 U	140 U	140 U
Tetryl	ug/kg	130 U	130 U	160 U	130 U	130 U	160 U	120 U	170 U	160 U	180 U	160 U	140 U	140 U
Nitroglycerin	ug/kg	2700 U	2700 U	3300 U	2700 U	2700 U	3300 U	2500 U	3400 U	3300 U	3600 U	3300 U	2700 U	2700 U
2,6-Diamino-4-nitrotoluene	ug/kg	270 U	270 U	330 U	270 U	270 U	330 U	250 U	340 U	330 U	360 U	330 U	270 U	270 U
2,4-Diamino-6-nitrotoluene	ug/kg	270 U	270 U	330 U	270 U	270 U	330 U	250 U	340 U	330 U	360 U	330 U	270 U	270 U
PETN	ug/kg	2700 U	2700 U	3300 U	2700 U	2700 U	3300 U	2500 U	3400 U	3300 U	3600 U	3300 U	2700 U	2700 U
2-Nitrotoluene	ug/kg	130 U	130 U	160 U	130 U	130 U	160 U	120 U	170 U	160 U	180 U	160 U	140 U	140 U
3-Nitrotoluene	ug/kg	130 U	130 U	160 U	130 U	130 U	160 U	120 U	170 U	160 U	180 U	160 U	140 U	140 U
1,3,5-Trinitrobenzene	ug/kg	130 U	130 U	160 U	130 U	130 U	160 U	120 U	170 U	160 U	180 U	160 U	140 U	140 U
4-Nitrotoluene	ug/kg	130 U	130 U	160 U	130 U	130 U	160 U	120 U	170 U	160 U	180 U	160 U	140 U	140 U
2,4-Dinitrotoluene	ug/kg	130 U	130 U	160 U	130 U	130 U	160 U	120 U	170 U	160 U	180 U	160 U	140 U	140 U
Nitrobenzene	ug/kg	130 U	130 U	160 U	130 U	130 U	160 U	120 U	170 U	160 U	180 U	160 U	140 U	140 U
m-Dinitrobenzene	ug/kg	130 U	130 U	160 U	130 U	130 U	160 U	120 U	170 U	160 U	180 U	160 U	140 U	140 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-5B

	Sample Name	SL-030-SA5B-SB-4.0-5.0	SL-030-SA5B-SB-9.0-10.0	SL-032-SA5B-SB-4.0-5.0	SL-032-SA5B-SB-9.0-10.0	SL-032-SA5B-SB-14.0-15.0	SL-033-SA5B-SB-4.0-5.0	SL-033-SA5B-SB-9.0-10.0	SL-033-SA5B-SB-14.0-15.0	SL-034-SA5B-SB-4.0-5.0	SL-034-SA5B-SB-9.0-10.0	SL-035-SA5B-SB-4.0-5.0	SL-035-SA5B-SB-7.0-8.0	SL-037-SA5B-SB-3.5-4.5
	Sample Date	01/20/2011	01/20/2011	01/24/2011	01/24/2011	01/24/2011	01/24/2011	01/24/2011	01/24/2011	01/20/2011	01/20/2011	01/20/2011	01/20/2011	01/20/2011
	Lab SDG	DE065	DE065	DE067	DE067	DE067	DE067	DE067	DE067	DE065	DE065	DE065	DE065	DE065
	Start Depth	4	9	4	9	14	4	9	14	4	9	4	7	3.5
	End Depth	5	10	5	10	15	5	10	15	5	10	5	8	4.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Ethanol	ug/kg	590 U	570 U	560 U	550 U	560 U	550 U	560 U	560 U	570 U	550 U	550 U	540 U	560 U
Methanol	ug/kg	590 U	200 J	560 U	550 U	420 J	120 J	560 U	560 U	570 U	550 U	550 U	540 U	560 U
2-Propanol	ug/kg	590 U	570 U	560 U	550 U	560 U	550 U	560 U	560 U	570 U	550 U	550 U	540 U	560 U
Ethylene Glycol	mg/kg	15 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U
Diethylene Glycol	mg/kg	15 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U
Propylene glycol	mg/kg	15 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U
o-Terphenyl	mg/kg	4.1 U	4 U	3.9 U	3.9 U	4 U	3.9 U	3.9 U	3.9 U	4 U	3.9 U	3.9 U	3.8 U	3.9 U
m-Terphenyl	mg/kg	4.1 U	4 U	3.9 U	3.9 U	4 U	3.9 U	3.9 U	3.9 U	4 U	3.9 U	3.9 U	3.8 U	3.9 U
p-Terphenyl	mg/kg	4.1 U	4 U	3.9 U	3.9 U	4 U	3.9 U	3.9 U	3.9 U	4 U	3.9 U	3.9 U	3.8 U	3.9 U
Formaldehyde	ug/kg	1800 U	6600	1700 U	7500	9400	1700 U	16000 J	10000	1800	6000	1300 J	1600 U	1700 U
2,6-Dinitrotoluene	ug/kg	140 U	140 U	130 U	130 U	140 U	130 U	130 U	130 U	140 U	130 U	130 U	130 U	130 U
2,4,6-Trinitrotoluene	ug/kg	140 U	140 U	130 U	130 U	140 U	130 U	130 U	130 U	140 U	130 U	130 U	130 U	130 U
RDX	ug/kg	140 U	140 U	130 U	130 U	140 U	130 U	130 U	130 U	140 U	130 U	130 U	130 U	130 U
4-Amino-2,6-Dinitrotoluene	ug/kg	140 U	140 U	130 U	130 U	140 U	130 U	130 U	130 U	140 U	130 U	130 U	130 U	130 U
HMX	ug/kg	350 U	340 U	330 U	330 U	340 U	330 U	340 U	330 U	340 U	330 U	330 U	320 U	340 U
2-Amino-4,6-Dinitrotoluene	ug/kg	140 U	140 U	130 U	130 U	140 U	130 U	130 U	130 U	140 U	130 U	130 U	130 U	130 U
Tetryl	ug/kg	140 U	140 U	130 U	130 U	140 U	130 U	130 U	130 U	140 U	130 U	130 U	130 U	130 U
Nitroglycerin	ug/kg	2800 U	2700 U	2700 U	2700 U	2700 U	2700 U	2700 U	2700 U	2700 U	2600 U	2600 U	2600 U	2700 U
2,6-Diamino-4-nitrotoluene	ug/kg	280 U	270 U	270 U	270 U	270 U	270 U	270 U	270 U	270 U	260 U	260 U	260 U	270 U
2,4-Diamino-6-nitrotoluene	ug/kg	280 U	270 U	270 U	270 U	270 U	270 U	270 U	270 U	270 U	260 U	260 U	260 U	270 U
PETN	ug/kg	2800 U	2700 U	2700 U	2700 U	2700 U	2700 U	2700 U	2700 U	2700 U	2600 U	2600 U	2600 U	2700 U
2-Nitrotoluene	ug/kg	140 U	140 U	130 U	130 U	140 U	130 U	130 U	130 U	140 U	130 U	130 U	130 U	130 U
3-Nitrotoluene	ug/kg	140 U	140 U	130 U	130 U	140 U	130 U	130 U	130 U	140 U	130 U	130 U	130 U	130 U
1,3,5-Trinitrobenzene	ug/kg	140 U	140 U	130 U	130 U	140 U	130 U	130 U	130 U	140 U	130 U	130 U	130 U	130 U
4-Nitrotoluene	ug/kg	140 U	140 U	130 U	130 U	140 U	130 U	130 U	130 U	140 U	130 U	130 U	130 U	130 U
2,4-Dinitrotoluene	ug/kg	140 U	140 U	130 U	130 U	140 U	130 U	130 U	130 U	140 U	130 U	130 U	130 U	130 U
Nitrobenzene	ug/kg	140 U	140 U	130 U	130 U	140 U	130 U	130 U	130 U	140 U	130 U	130 U	130 U	130 U
m-Dinitrobenzene	ug/kg	140 U	140 U	130 U	130 U	140 U	130 U	130 U	130 U	140 U	130 U	130 U	130 U	130 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-5B

	Sample Name	SL-040-SA5B-SB-1.5-2.5	SL-040-SA5B-SB-9.0-10.0	SL-041-SA5B-SB-1.5-2.5	SL-041-SA5B-SB-8.0-9.0	SL-042-SA5B-SB-2.5-3.5	SL-042-SA5B-SB-8.0-9.0	SL-043-SA5B-SB-2.5-3.5	SL-044-SA5B-SB-4.0-5.0	SL-044-SA5B-SB-7.0-8.0	SL-045-SA5B-SB-3.0-4.0	SL-049-SA5B-SB-4.0-5.0	SL-049-SA5B-SB-9.0-10.0	SL-050-SA5B-SB-3.0-4.0
	Sample Date	12/16/2010	12/16/2010	12/16/2010	12/16/2010	12/16/2010	12/16/2010	12/16/2010	12/20/2010	12/20/2010	12/20/2010	01/19/2011	01/19/2011	01/06/2011
	Lab SDG	DE043	DE043	DE043	DE043	DE043	DE043	DE043	DE048	DE048	DE048	DE064	DE064	DE054
	Start Depth	1.5	9	1.5	8	2.5	8	2.5	4	7	3	4	9	3
	End Depth	2.5	10	2.5	9	3.5	9	3.5	5	8	4	5	10	4
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Ethanol	ug/kg	560 U	590 U	600 U	550 U	560 U	560 U	550 U	570 U	570 U	550 U	540 U	520 U	550 U
Methanol	ug/kg	470 J	200 J	470 J	580	680 J	490 J	730	310 J	170 J	550 U	540 U	520 U	550 U
2-Propanol	ug/kg	560 U	590 U	600 U	550 U	560 U	560 U	550 U	570 U	570 U	550 U	540 U	520 U	550 U
Ethylene Glycol	mg/kg	14 UJ	15 U	15 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	13 U	14 U
Diethylene Glycol	mg/kg	14 UJ	15 U	15 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	13 U	14 U
Propylene glycol	mg/kg	14 UJ	15 U	15 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	13 U	14 U
o-Terphenyl	mg/kg	3.9 U	4.1 U	4.2 U	3.9 U	3.9 U	3.9 U	3.9 U	4 U	4 U	3.9 U	3.8 U	3.6 U	3.8 U
m-Terphenyl	mg/kg	3.9 U	4.1 U	4.2 U	3.9 U	3.9 U	3.9 U	3.9 U	4 U	4 U	3.9 U	3.8 U	3.6 U	3.8 U
p-Terphenyl	mg/kg	3.9 U	4.1 U	4.2 U	3.9 U	3.9 U	3.9 U	3.9 U	4 U	4 U	3.9 U	3.8 U	3.6 U	3.8 U
Formaldehyde	ug/kg	8100	1800 U	5700	3300	7200	7000	6300	9800 J	2100	1700 U	1600 U	1600 U	1600 U
2,6-Dinitrotoluene	ug/kg	170 U	180 U	180 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U	130 U	120 U	130 U
2,4,6-Trinitrotoluene	ug/kg	170 U	180 U	180 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U	130 U	120 U	130 U
RDX	ug/kg	170 U	180 U	180 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U	130 U	120 U	130 U
4-Amino-2,6-Dinitrotoluene	ug/kg	170 U	180 U	180 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U	130 U	120 U	130 U
HMX	ug/kg	420 U	440 U	450 U	420 U	420 U	420 U	420 U	420 U	430 U	410 U	330 U	310 U	330 U
2-Amino-4,6-Dinitrotoluene	ug/kg	170 U	180 U	180 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U	130 U	120 U	130 U
Tetryl	ug/kg	170 U	180 U	180 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U	130 U	120 U	130 U
Nitroglycerin	ug/kg	3300 U	3500 U	3600 U	3300 U	3300 U	3400 U	3300 U	3400 U	3400 U	3300 U	2600 U	2500 U	2600 U
2,6-Diamino-4-nitrotoluene	ug/kg	330 U	350 U	360 U	330 U	330 U	340 U	330 U	340 U	340 U	330 U	260 U	250 U	260 U
2,4-Diamino-6-nitrotoluene	ug/kg	330 U	350 U	360 U	330 U	330 U	340 U	330 U	340 U	340 U	330 U	260 U	250 U	260 U
PETN	ug/kg	3300 U	3500 U	3600 U	3300 U	3300 U	3400 U	3300 U	3400 U	3400 U	3300 U	2600 U	2500 U	2600 U
2-Nitrotoluene	ug/kg	170 U	180 U	180 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U	130 U	120 U	130 U
3-Nitrotoluene	ug/kg	170 U	180 U	180 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U	130 U	120 U	130 U
1,3,5-Trinitrobenzene	ug/kg	170 U	180 U	180 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U	130 U	120 U	130 U
4-Nitrotoluene	ug/kg	170 U	180 U	180 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U	130 U	120 U	130 U
2,4-Dinitrotoluene	ug/kg	170 U	180 U	180 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U	130 U	120 U	130 U
Nitrobenzene	ug/kg	170 U	180 U	180 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U	130 U	120 U	130 U
m-Dinitrobenzene	ug/kg	170 U	180 U	180 U	170 U	170 U	170 U	170 U	170 U	170 U	170 U	130 U	120 U	130 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-5B

	Sample Name	SL-051-SA5B-SB-3.0-4.0	SL-063-SA5B-SB-3.0-4.0	SL-069-SA5B-SB-3.0-4.0	SL-070-SA5B-SB-2.5-3.5	SL-071-SA5B-SB-2.0-3.0	SL-072-SA5B-SB-4.0-5.0	SL-081-SA5B-SB-2.5-3.5	SL-081-SA5B-SB-6.0-7.0	SL-082-SA5B-SB-2.25-3.25	SL-082-SA5B-SB-7.0-8.0	SL-085-SA5B-SS-0.0-0.5	SL-085-SA5B-SB-3.0-4.0	SL-087-SA5B-SB-3.0-4.0
	Sample Date	01/06/2011	01/06/2011	01/05/2011	01/05/2011	01/12/2011	01/12/2011	01/14/2011	01/14/2011	01/17/2011	01/17/2011	12/13/2010	01/11/2011	01/11/2011
	Lab SDG	DE054	DE054	DE053	DE053	DE059	DE059	DE061	DE061	DE062	DE062	DE037	DE057	DE057
	Start Depth	3	3	3	2.5	2	4	2.5	6	2.25	7	0	3	3
	End Depth	4	4	4	3.5	3	5	3.5	7	3.25	8	0.5	4	4
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Ethanol	ug/kg	580 U	540 U	540 U	540 U	560 U	570 U	560 U	570 U	580 U	580 U	540 U	540 U	540 U
Methanol	ug/kg	580 U	540 U	540 U	540 U	150 J	140 J	170 J	570 U	490 J	270 J	540 U	540 U	150 J
2-Propanol	ug/kg	580 U	540 U	540 U	540 U	560 U	570 U	560 U	570 U	580 U	580 U	540 U	540 U	540 U
Ethylene Glycol	mg/kg	15 U	14 U	13 U	13 U	14 UJ	14 UJ	14 U	14 U	15 U	14 U	--	14 U	13 U
Diethylene Glycol	mg/kg	15 U	14 U	13 U	13 U	14 UJ	14 UJ	14 U	14 U	15 U	14 U	--	14 U	13 U
Propylene glycol	mg/kg	15 U	14 U	13 U	13 U	14 UJ	14 UJ	14 U	14 U	15 U	14 U	--	14 U	13 U
o-Terphenyl	mg/kg	4.1 U	3.8 U	3.8 U	3.8 U	3.9 U	4 U	3.9 U	4 U	4.1 U	4 U	3.8 U	3.8 U	3.8 U
m-Terphenyl	mg/kg	4.1 U	3.8 U	3.8 U	3.8 U	3.9 U	4 U	3.9 U	4 U	4.1 U	4 U	3.8 U	3.8 U	3.8 U
p-Terphenyl	mg/kg	4.1 U	3.8 U	3.8 U	3.8 U	3.9 U	4 U	3.9 U	4 U	4.1 U	4 U	3.8 U	3.8 U	3.8 U
Formaldehyde	ug/kg	1800 U	1600 U	1600 U	1600 U	1700 U	1700 U	14000 J	1700 U	1700 U	1700 U	1600 U	1600 U	1600 U
2,6-Dinitrotoluene	ug/kg	140 U	130 U	130 U	130 U	130 U	140 U	130 U	140 U	140 U	140 U	160 U	130 U	130 U
2,4,6-Trinitrotoluene	ug/kg	140 U	130 U	130 U	130 U	130 U	140 U	130 U	140 U	140 U	140 U	160 U	130 U	130 U
RDX	ug/kg	140 U	130 U	130 U	130 U	130 U	140 U	130 U	140 U	140 U	140 U	160 U	130 U	130 U
4-Amino-2,6-Dinitrotoluene	ug/kg	140 U	130 U	130 U	130 U	130 U	140 U	130 U	140 U	140 U	140 U	160 U	130 U	130 U
HMX	ug/kg	350 U	330 U	320 U	320 U	340 U	340 U	340 U	340 U	350 U	350 U	400 U	330 U	320 U
2-Amino-4,6-Dinitrotoluene	ug/kg	140 U	130 U	130 U	130 U	130 U	140 U	130 U	140 U	140 U	140 U	160 U	130 U	130 U
Tetryl	ug/kg	140 U	130 U	130 U	130 U	130 U	140 U	130 U	140 U	140 U	140 U	160 U	130 U	130 U
Nitroglycerin	ug/kg	2800 U	2600 U	2600 U	2600 U	2700 U	2700 U	2700 U	2700 U	2800 U	2800 U	3200 U	2600 U	2600 U
2,6-Diamino-4-nitrotoluene	ug/kg	280 U	260 U	260 U	260 U	270 U	270 U	270 U	270 U	280 U	280 U	320 U	260 U	260 U
2,4-Diamino-6-nitrotoluene	ug/kg	280 U	260 U	260 U	260 U	270 U	270 U	270 U	270 U	280 U	280 U	320 U	260 U	260 U
PETN	ug/kg	2800 U	2600 U	2600 U	2600 U	2700 U	2700 U	2700 U	2700 U	2800 U	2800 U	3200 U	2600 U	2600 U
2-Nitrotoluene	ug/kg	140 U	130 U	130 U	130 U	130 U	140 U	130 U	140 U	140 U	140 U	160 U	130 U	130 U
3-Nitrotoluene	ug/kg	140 U	130 U	130 U	130 U	130 U	140 U	130 U	140 U	140 U	140 U	160 U	130 U	130 U
1,3,5-Trinitrobenzene	ug/kg	140 U	130 U	130 U	130 U	130 U	140 U	130 U	140 U	140 U	140 U	160 U	130 U	130 U
4-Nitrotoluene	ug/kg	140 U	130 U	130 U	130 U	130 U	140 U	130 U	140 U	140 U	140 U	160 U	130 U	130 U
2,4-Dinitrotoluene	ug/kg	140 U	130 U	130 U	130 U	130 U	140 U	130 U	140 U	140 U	140 U	160 U	130 U	130 U
Nitrobenzene	ug/kg	140 U	130 U	130 U	130 U	130 U	140 U	130 U	140 U	140 U	140 U	160 U	130 U	130 U
m-Dinitrobenzene	ug/kg	140 U	130 U	130 U	130 U	130 U	140 U	130 U	94 J	140 U	140 U	160 U	130 U	130 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-5B

	Sample Name	SL-088-SA5B-SB-3.0-4.0	SL-089-SA5B-SB-4.0-5.0	SL-090-SA5B-SB-2.5-3.5	SL-091-SA5B-SB-4.0-5.0	SL-092-SA5B-SB-4.0-5.0	SL-097-SA5B-SB-4.0-5.0	SL-097-SA5B-SB-7.0-8.0	SL-098-SA5B-SB-4.0-5.0	SL-099-SA5B-SB-4.0-5.0	SL-100-SA5B-SB-4.0-5.0	SL-101-SA5B-SB-4.0-5.0	SL-101-SA5B-SB-7.5-8.5	SL-103-SA5B-SB-4.0-5.0
	Sample Date	01/11/2011	01/11/2011	01/11/2011	01/11/2011	01/12/2011	01/12/2011	01/12/2011	01/12/2011	01/11/2011	01/11/2011	01/17/2011	01/17/2011	01/12/2011
	Lab SDG	DE057	DE057	DE057	DE057	DE059	DE059	DE059	DE059	DE057	DE057	DE062	DE062	DE059
	Start Depth	3	4	2.5	4	4	4	7	4	4	4	4	7.5	4
	End Depth	4	5	3.5	5	5	5	8	5	5	5	5	8.5	5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Ethanol	ug/kg	560 U	570 U	550 U	570 U	570 U	570 U	570 U	570 U	570 U	550 U	570 U	550 U	580 U
Methanol	ug/kg	560 U	120 J	130 J	570 U	570 UJ	200 J	200 J	180 J	570 U	550 U	570 U	150 J	580 U
2-Propanol	ug/kg	560 U	570 U	550 U	570 U	570 UJ	570 U	570 U	570 U	570 U	550 U	570 U	550 U	580 U
Ethylene Glycol	mg/kg	14 U	14 U	14 U	14 U	14 UJ	14 UJ	14 UJ	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 UJ	14 UJ	14 UJ	14 UJ	14 U	14 U	14 U	14 U	14 UJ
Propylene glycol	mg/kg	14 U	14 U	14 U	14 U	14 UJ	14 UJ	14 UJ	14 UJ	14 U	14 U	14 U	14 U	14 UJ
o-Terphenyl	mg/kg	3.9 U	4 U	3.8 U	4 U	4 U	4 U	4 U	4 U	4 U	3.8 U	4 U	3.8 U	4 U
m-Terphenyl	mg/kg	3.9 U	4 U	3.8 U	4 U	4 U	4 U	4 U	4 U	4 U	3.8 U	4 U	3.8 U	4 U
p-Terphenyl	mg/kg	3.9 U	4 U	3.8 U	4 U	4 U	4 U	4 U	4 U	4 U	3.8 U	4 U	3.8 U	4 U
Formaldehyde	ug/kg	1700 U	1700 U	1600 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1600 U	1700 U	1600 U	1700 U
2,6-Dinitrotoluene	ug/kg	130 U	140 U	130 U	140 U	140 U	140 U	140 U	140 U	140 U	130 U	140 U	130 U	140 U
2,4,6-Trinitrotoluene	ug/kg	130 U	140 U	130 U	140 U	140 U	140 U	140 U	140 U	140 U	130 U	140 U	130 U	140 U
RDX	ug/kg	130 U	140 U	130 U	140 U	140 U	140 U	140 U	140 U	140 U	130 U	140 U	130 U	140 U
4-Amino-2,6-Dinitrotoluene	ug/kg	130 U	140 U	130 U	140 U	140 U	140 U	140 U	140 U	140 U	130 U	140 U	130 U	140 U
HMX	ug/kg	330 U	340 U	330 U	340 U	340 U	340 U	340 U	340 U	340 U	330 U	340 U	330 U	350 U
2-Amino-4,6-Dinitrotoluene	ug/kg	130 U	140 U	130 U	140 U	140 U	140 U	140 U	140 U	140 U	130 U	140 U	130 U	140 U
Tetryl	ug/kg	130 U	140 U	130 U	140 U	140 U	140 U	140 U	140 U	140 U	130 U	140 U	130 U	140 U
Nitroglycerin	ug/kg	2700 U	2800 U	2600 U	2700 U	2700 U	2800 U	2700 U	2700 U	2700 U	2600 U	2700 U	2600 U	2800 U
2,6-Diamino-4-nitrotoluene	ug/kg	270 U	280 U	260 U	270 U	270 U	280 U	270 U	270 U	270 U	260 U	270 U	260 U	280 U
2,4-Diamino-6-nitrotoluene	ug/kg	270 U	280 U	260 U	270 U	270 U	280 U	270 U	270 U	270 U	260 U	270 U	260 U	280 U
PETN	ug/kg	2700 U	2800 U	2600 U	2700 U	2700 U	2800 U	2700 U	2700 U	2700 U	2600 U	2700 U	2600 U	2800 U
2-Nitrotoluene	ug/kg	130 U	140 U	130 U	140 U	140 U	140 U	140 U	140 U	140 U	130 U	140 U	130 U	140 U
3-Nitrotoluene	ug/kg	130 U	140 U	130 U	140 U	140 U	140 U	140 U	140 U	140 U	130 U	140 U	130 U	140 U
1,3,5-Trinitrobenzene	ug/kg	130 U	140 U	130 U	140 U	140 U	140 U	140 U	140 U	140 U	130 U	140 U	130 U	140 U
4-Nitrotoluene	ug/kg	130 U	140 U	130 U	140 U	140 U	140 U	140 U	140 U	140 U	130 U	140 U	130 U	140 U
2,4-Dinitrotoluene	ug/kg	130 U	140 U	130 U	140 U	140 U	140 U	140 U	140 U	140 U	130 U	140 U	130 U	140 U
Nitrobenzene	ug/kg	130 U	140 U	130 U	140 U	140 U	140 U	140 U	140 U	140 U	130 U	140 U	130 U	140 U
m-Dinitrobenzene	ug/kg	130 U	140 U	130 U	140 U	140 U	140 U	140 U	140 U	140 U	130 U	140 U	130 U	140 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-5B

	Sample Name	SL-103-SA5B-SB-9.0-10.0	SL-104-SA5B-SB-4.0-5.0	SL-104-SA5B-SB-9.0-10.0	SL-112-SA5B-SB-4.0-5.0	SL-113-SA5B-SB-4.0-5.0	SL-114-SA5B-SS-0.0-0.5	SL-114-SA5B-SB-4.0-5.0	SL-115-SA5B-SB-4.0-5.0	SL-116-SA5B-SB-4.0-5.0	SL-117-SA5B-SS-0.0-0.5	SL-117-SA5B-SB-4.0-5.0	SL-118-SA5B-SS-0.0-0.5	SL-118-SA5B-SB-4.0-5.0
	Sample Date	01/12/2011	01/12/2011	01/12/2011	01/17/2011	01/17/2011	12/22/2010	01/18/2011	01/18/2011	01/18/2011	12/22/2010	01/17/2011	12/22/2010	01/18/2011
	Lab SDG	DE059	DE059	DE059	DE062	DE062	DE051	DE063	DE063	DE063	DE051	DE062	DE051	DE063
	Start Depth	9	4	9	4	4	0	4	4	4	0	4	0	4
	End Depth	10	5	10	5	5	0.5	5	5	5	0.5	5	0.5	5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Ethanol	ug/kg	570 U	560 U	560 U	540 U	560 U	620 U	540 U	550 U	570 U	620 U	560 U	590 U	570 U
Methanol	ug/kg	150 J	560 U	560 U	540 U	280 J	520 J	280 J	260 J	280 J	620 U	250 J	590 U	400 J
2-Propanol	ug/kg	570 U	560 U	560 U	540 U	560 U	140 J	540 U	550 U	570 U	620 U	560 U	590 U	570 U
Ethylene Glycol	mg/kg	14 UJ	14 U	14 U	13 U	14 U	17 U	14 U	14 U	14 U	16 U	14 U	15 U	14 U
Diethylene Glycol	mg/kg	14 UJ	14 UJ	14 UJ	13 U	14 U	16 U	14 U	14 U	14 U	16 U	14 U	15 U	14 U
Propylene glycol	mg/kg	14 UJ	14 UJ	14 UJ	13 U	14 U	16 U	14 U	14 U	14 U	16 U	14 U	15 U	14 U
o-Terphenyl	mg/kg	4 U	3.9 U	3.9 U	3.8 U	3.9 U	4.4 U	3.8 U	3.9 U	4 U	4.3 U	4 U	4.1 U	4 U
m-Terphenyl	mg/kg	4 U	3.9 U	3.9 U	3.8 U	3.9 U	4.4 U	3.8 U	3.9 U	4 U	4.3 U	4 U	4.1 U	4 U
p-Terphenyl	mg/kg	4 U	3.9 U	3.9 U	3.8 U	3.9 U	4.4 U	3.8 U	3.9 U	4 U	4.3 U	4 U	4.1 U	4 U
Formaldehyde	ug/kg	1700 U	1700 U	1700 U	1600 U	1700 U	1900 U	1600 U	1700 U	1700 U	1900 U	1700 U	1800 U	1700 U
2,6-Dinitrotoluene	ug/kg	140 U	130 U	130 U	130 U	130 U	190 U	130 U	130 U	140 U	190 U	140 U	180 U	140 U
2,4,6-Trinitrotoluene	ug/kg	140 U	130 U	130 U	130 U	130 U	190 U	130 U	130 U	140 U	190 U	140 U	180 U	140 U
RDX	ug/kg	140 U	130 U	130 U	130 U	130 U	190 U	130 U	130 U	140 U	190 U	140 U	180 U	140 U
4-Amino-2,6-Dinitrotoluene	ug/kg	140 U	130 U	130 U	130 U	130 U	190 U	130 U	130 U	140 U	190 U	140 U	180 U	140 U
HMX	ug/kg	340 U	330 U	340 U	320 U	340 U	470 U	330 U	330 U	340 U	470 U	340 U	440 U	340 U
2-Amino-4,6-Dinitrotoluene	ug/kg	140 U	130 U	130 U	130 U	130 U	190 U	130 U	130 U	140 U	190 U	140 U	180 U	140 U
Tetryl	ug/kg	140 U	130 U	130 U	130 U	130 U	190 U	130 U	130 U	140 U	190 U	140 U	180 U	140 U
Nitroglycerin	ug/kg	2700 U	2700 U	2700 U	2600 U	2700 U	3700 U	2600 U	2700 U	2800 U	3700 U	2700 U	3500 U	2700 U
2,6-Diamino-4-nitrotoluene	ug/kg	270 U	270 U	270 U	260 U	270 U	370 U	260 U	270 U	280 U	370 U	270 U	350 U	270 U
2,4-Diamino-6-nitrotoluene	ug/kg	270 U	270 U	270 U	260 U	270 U	370 U	260 U	270 U	280 U	370 U	270 U	350 U	270 U
PETN	ug/kg	2700 U	2700 U	2700 U	2600 U	2700 U	3700 U	2600 U	2700 U	2800 U	3700 U	2700 U	3500 U	2700 U
2-Nitrotoluene	ug/kg	140 U	130 U	130 U	130 U	130 U	190 U	130 U	130 U	140 U	190 U	140 U	180 U	140 U
3-Nitrotoluene	ug/kg	140 U	130 U	130 U	130 U	130 U	190 U	130 U	130 U	140 U	190 U	140 U	180 U	140 U
1,3,5-Trinitrobenzene	ug/kg	140 U	130 U	130 U	130 U	130 U	190 U	130 U	130 U	140 U	190 U	140 U	180 U	140 U
4-Nitrotoluene	ug/kg	140 U	130 U	130 U	130 U	130 U	190 U	130 U	130 U	140 U	190 U	140 U	180 U	140 U
2,4-Dinitrotoluene	ug/kg	140 U	130 U	130 U	130 U	130 U	190 U	130 U	130 U	140 U	190 U	140 U	180 U	140 U
Nitrobenzene	ug/kg	140 U	130 U	130 U	130 U	130 U	190 U	130 U	130 U	140 U	190 U	140 U	180 U	140 U
m-Dinitrobenzene	ug/kg	140 U	130 U	130 U	130 U	130 U	190 U	130 U	130 U	140 U	190 U	140 U	180 U	140 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-5B

	Sample Name	SL-118-SA5B-SB-8.0-9.0	SL-145-SA5B-SB-4.0-5.0	SL-146-SA5B-SB-4.0-5.0	SL-148-SA5B-SB-4.0-5.0	SL-154-SA5B-SB-4.0-5.0	SL-155-SA5B-SB-3.5-4.5	SL-156-SA5B-SB-4.0-5.0	SL-168-SA5B-SB-4.0-5.0	SL-180-SA5B-SB-4.0-5.0	SL-180-SA5B-SB-9.0-10.0	SL-181-SA5B-SB-4.0-5.0	SL-182-SA5B-SB-4.0-5.0	SL-183-SA5B-SS-0.0-0.5
	Sample Date	01/18/2011	12/22/2010	01/04/2011	01/25/2011	01/24/2011	01/24/2011	01/25/2011	02/08/2011	01/26/2011	01/26/2011	01/27/2011	01/31/2011	12/21/2010
	Lab SDG	DE063	DE051	DE052	DE068	DE067	DE067	DE068	DE078	DE069	DE069	DE070	DE073	DE049
	Start Depth	8	4	4	4	4	3.5	4	4	4	9	4	4	0
	End Depth	9	5	5	5	5	4.5	5	5	5	10	5	5	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Ethanol	ug/kg	560 U	570 U	580 U	570 U	570 U	560 U	570 U	560 U	570 U	570 U	570 U	570 U	590 U
Methanol	ug/kg	350 J	570 U	580 U	570 U	570 U	560 U	570 U	560 U	570 U	570 U	570 U	570 U	590 U
2-Propanol	ug/kg	560 U	570 U	580 U	570 U	570 U	560 U	570 U	560 U	570 U	570 U	570 U	570 U	590 U
Ethylene Glycol	mg/kg	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	15 U
Diethylene Glycol	mg/kg	14 U	14 U	14 U	14 U	14 U	14 U	14 U	22 U	14 U	14 U	14 U	14 UJ	15 U
Propylene glycol	mg/kg	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	15 U
o-Terphenyl	mg/kg	3.9 U	4 U	4 U	4 U	4 U	3.9 U	4 U	3.9 U	4 U	4 U	4 U	4 U	4.2 U
m-Terphenyl	mg/kg	3.9 U	4 U	4 U	4 U	4 U	3.9 U	4 U	3.9 U	4 U	4 U	4 U	4 U	4.2 U
p-Terphenyl	mg/kg	3.9 U	4 U	4 U	4 U	4 U	3.9 U	4 U	3.9 U	4 U	4 U	4 U	4 U	4.2 U
Formaldehyde	ug/kg	1700 U	1700 U	1700 U	1700 U	1700 U	2300 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1800 U
2,6-Dinitrotoluene	ug/kg	130 U	170 U	140 U	140 U	140 U	140 U	140 U	130 U	140 U	140 U	140 U	140 U	180 U
2,4,6-Trinitrotoluene	ug/kg	130 U	170 U	140 U	140 U	140 U	140 U	140 U	130 U	140 U	140 U	140 U	140 U	180 U
RDX	ug/kg	130 U	170 U	140 U	140 U	140 U	140 U	140 U	130 U	140 U	140 U	140 U	140 U	180 U
4-Amino-2,6-Dinitrotoluene	ug/kg	130 U	170 U	140 U	140 U	140 U	140 U	140 U	130 U	140 U	140 U	140 U	140 U	180 U
HMX	ug/kg	340 U	430 U	350 U	340 U	340 U	340 U	340 U	340 U	340 U	340 U	340 U	340 U	450 U
2-Amino-4,6-Dinitrotoluene	ug/kg	130 U	170 U	140 U	140 U	140 U	140 U	140 U	130 U	140 U	140 U	140 U	140 U	180 U
Tetryl	ug/kg	130 U	170 U	140 U	140 U	140 U	140 U	140 U	130 U	140 U	140 U	140 U	140 U	180 UJ
Nitroglycerin	ug/kg	2700 U	3400 U	2800 U	2700 U	2700 U	2700 U	1200 J	2700 UJ	2700 U	2800 U	2700 U	2700 U	3600 U
2,6-Diamino-4-nitrotoluene	ug/kg	270 U	340 U	280 U	270 U	270 U	270 U	270 U	270 U	270 U	280 U	270 U	270 U	360 U
2,4-Diamino-6-nitrotoluene	ug/kg	270 U	340 U	280 U	270 U	270 U	270 U	270 U	270 U	270 U	280 U	270 U	270 U	360 U
PETN	ug/kg	2700 U	3400 U	2800 U	2700 U	2700 U	2700 U	2700 U	2700 U	2700 U	2800 U	2700 U	2700 U	3600 U
2-Nitrotoluene	ug/kg	130 U	170 U	140 U	140 U	140 U	140 U	140 U	130 U	140 U	140 U	140 U	140 U	180 U
3-Nitrotoluene	ug/kg	130 U	170 U	140 U	140 U	140 U	140 U	140 U	130 U	140 U	140 U	140 U	140 U	180 U
1,3,5-Trinitrobenzene	ug/kg	130 U	170 U	140 U	140 U	140 U	140 U	140 U	130 U	140 U	140 U	140 U	140 U	180 U
4-Nitrotoluene	ug/kg	130 U	170 U	140 U	140 U	140 U	140 U	140 U	130 U	140 U	140 U	140 U	140 U	180 U
2,4-Dinitrotoluene	ug/kg	130 U	170 U	140 U	140 U	140 U	140 U	140 U	130 U	140 U	140 U	140 U	140 U	180 U
Nitrobenzene	ug/kg	130 U	170 U	140 U	140 U	140 U	140 U	140 U	130 U	140 U	140 U	140 U	140 U	180 U
m-Dinitrobenzene	ug/kg	130 U	170 U	140 U	140 U	140 U	140 U	140 U	130 U	140 U	140 U	320 U	1100 J	180 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-5B

	Sample Name	SL-183-SA5B-SB-4.0-5.0	SL-184-SA5B-SB-3.0-4.0	SL-185-SA5B-SB-4.0-5.0	SL-203-SA5B-SB-4.0-5.0	SL-203-SA5B-SB-7.5-8.5	SL-204-SA5B-SB-4.0-5.0	SL-225-SA5B-SB-2.0-3.0	SL-227-SA5B-SB-2.5-3.5	SL-229-SA5B-SB-2.0-3.0	SL-230-SA5B-SB-2.0-3.0	SL-281-SA5B-SB-4.0-5.0	SL-281-SA5B-SB-8.0-9.0	SL-282-SA5B-SB-4.0-5.0
	Sample Date	01/28/2011	01/28/2011	01/27/2011	01/27/2011	01/27/2011	01/31/2011	03/09/2011	03/11/2011	02/03/2011	02/03/2011	12/17/2010	12/17/2010	12/17/2010
	Lab SDG	DE071	DE071	DE070	DE070	DE070	DE073	DE101	DE102	DE075	DE075	DE045	DE045	DE045
	Start Depth	4	3	4	4	7.5	4	2	2.5	2	2	4	8	4
	End Depth	5	4	5	5	8.5	5	3	3.5	3	3	5	9	5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Ethanol	ug/kg	570 U	580 U	570 U	580 U	570 U	580 U	580 U	570 U	550 U	570 U	600 U	570 U	550 U
Methanol	ug/kg	570 U	580 U	570 U	580 U	570 U	580 U	580 U	570 U	550 U	570 U	550 J	590	740
2-Propanol	ug/kg	570 U	580 U	570 U	580 U	570 U	580 U	580 U	570 U	550 U	570 U	600 U	570 U	550 U
Ethylene Glycol	mg/kg	14 U	15 U	14 U	15 U	14 U	14 U	14 U	14 U	14 U	14 U	15 U	14 U	14 U
Diethylene Glycol	mg/kg	14 U	15 U	14 U	15 U	14 U	14 U	14 U	14 U	14 U	14 U	15 U	14 U	14 U
Propylene glycol	mg/kg	14 U	15 U	14 U	15 U	14 U	14 U	14 U	14 U	14 U	14 U	15 U	14 U	14 U
o-Terphenyl	mg/kg	4 U	4.1 U	4 U	4.1 U	4 U	4 U	4 U	4 U	3.9 U	4 U	4.2 U	4 U	3.8 U
m-Terphenyl	mg/kg	4 U	4.1 U	4 U	4.1 U	4 U	4 U	4 U	4 U	3.9 U	4 U	4.2 U	4 U	3.8 U
p-Terphenyl	mg/kg	4 U	4.1 U	4 U	4.1 U	4 U	4 U	4 U	4 U	3.9 U	4 U	4.2 U	4 U	3.8 U
Formaldehyde	ug/kg	1700 U	1800 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U	11000	11000	7600
2,6-Dinitrotoluene	ug/kg	140 U	140 U	140 U	140 U	140 U	140 U	130 U	130 U	130 U	140 U	180 U	170 U	160 U
2,4,6-Trinitrotoluene	ug/kg	140 U	140 U	140 U	140 U	140 U	140 U	130 U	130 U	130 U	140 U	180 U	170 U	160 U
RDX	ug/kg	140 U	140 U	140 U	140 U	140 U	140 U	130 U	130 U	130 U	140 U	180 U	170 U	160 U
4-Amino-2,6-Dinitrotoluene	ug/kg	140 U	140 U	140 U	140 U	140 U	140 U	130 U	130 U	130 U	140 U	180 U	170 U	160 U
HMX	ug/kg	340 U	350 U	340 U	350 U	340 U	350 U	330 U	340 U	330 U	340 U	450 U	430 U	410 U
2-Amino-4,6-Dinitrotoluene	ug/kg	140 U	140 U	140 U	140 U	140 U	140 U	130 U	130 U	130 U	140 U	180 U	170 U	160 U
Tetryl	ug/kg	140 U	140 U	140 U	140 U	140 U	140 U	130 U	130 U	130 U	140 U	180 U	170 U	160 U
Nitroglycerin	ug/kg	2700 U	2800 U	2700 U	2800 U	2700 U	2800 U	2700 U	2700 U	2600 U	2700 U	3600 U	3400 U	3300 U
2,6-Diamino-4-nitrotoluene	ug/kg	270 U	280 U	270 U	280 U	270 U	280 U	270 U	270 U	260 U	270 U	360 U	340 U	330 U
2,4-Diamino-6-nitrotoluene	ug/kg	270 U	280 U	270 U	280 U	270 U	280 U	270 U	270 U	260 U	270 U	360 U	340 U	330 U
PETN	ug/kg	2700 U	2800 U	2700 U	2800 U	2700 U	2800 U	2700 U	2700 U	2600 U	2700 U	3600 U	3400 U	3300 U
2-Nitrotoluene	ug/kg	140 U	140 U	140 U	140 U	140 U	140 U	130 U	130 U	130 U	140 U	180 U	170 U	160 U
3-Nitrotoluene	ug/kg	140 U	140 U	140 U	140 U	140 U	140 U	130 U	130 U	130 U	140 U	180 U	170 U	160 U
1,3,5-Trinitrobenzene	ug/kg	140 U	140 U	140 U	140 U	140 U	140 U	130 U	130 U	130 U	140 U	180 U	170 U	160 U
4-Nitrotoluene	ug/kg	140 U	140 U	140 U	140 U	140 U	140 U	130 U	130 U	130 U	140 U	180 U	170 U	160 U
2,4-Dinitrotoluene	ug/kg	140 U	140 U	140 U	140 U	140 U	140 U	130 U	130 U	130 U	140 U	180 U	170 U	160 U
Nitrobenzene	ug/kg	140 U	140 U	140 U	140 U	140 U	140 U	130 U	130 U	130 U	140 U	180 U	170 U	160 U
m-Dinitrobenzene	ug/kg	140 U	580 U	140 U	140 U	140 U	1100	130 U	130 U	130 U	140 U	180 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-5B

	Sample Name	SL-282-SA5B-SB-7.0-8.0	SL-294-SA5B-SB-4.0-5.0	SL-294-SA5B-SB-9.0-10.0	SL-297-SA5B-SB-4.0-5.0	SL-297-SA5B-SB-7.0-8.0	SL-298-SA5B-SB-4.0-5.0	SL-298-SA5B-SB-9.0-10.0	SL-304-SA5B-SB-3.0-4.0	SL-307-SA5B-SB-4.0-5.0	SL-307-SA5B-SB-9.0-10.0	SL-307-SA5B-SB-14.0-15.0	SL-308-SA5B-SB-4.0-5.0	SL-308-SA5B-SB-9.0-10.0
	Sample Date	12/17/2010	01/20/2011	01/20/2011	12/15/2010	12/15/2010	12/15/2010	12/15/2010	03/09/2011	01/21/2011	01/21/2011	01/21/2011	01/21/2011	01/21/2011
	Lab SDG	DE045	DE065	DE065	DE041	DE041	DE041	DE041	DE101	DE066	DE066	DE066	DE066	DE066
	Start Depth	7	4	9	4	7	4	9	3	4	9	14	4	9
	End Depth	8	5	10	5	8	5	10	4	5	10	15	5	10
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Ethanol	ug/kg	550 U	560 U	560 U	580 U	600 U	570 U	530 U	580 U	550 U	600 U	610 U	570 U	550 U
Methanol	ug/kg	330 J	560 U	560 U	170 J	510 J	570 U	290 J	580 U	550 U	600 U	550 J	570 U	550 U
2-Propanol	ug/kg	550 U	560 U	560 U	580 U	600 U	570 U	530 U	580 U	550 U	600 U	610 U	570 U	550 U
Ethylene Glycol	mg/kg	14 U	14 U	14 U	14 U	15 U	14 U	13 U	14 U	14 UJ	15 UJ	15 UJ	14 U	14 UJ
Diethylene Glycol	mg/kg	14 U	14 U	14 U	14 U	15 U	14 U	13 U	14 U	14 UJ	15 UJ	15 UJ	14 U	14 UJ
Propylene glycol	mg/kg	14 U	14 U	14 U	14 UJ	15 UJ	14 UJ	13 UJ	14 U	14 UJ	15 UJ	15 UJ	14 U	14 UJ
o-Terphenyl	mg/kg	3.8 U	3.9 U	3.9 U	4 U	4.2 U	4 U	3.7 U	4 U	3.9 U	4.2 U	4.3 U	4 U	3.9 U
m-Terphenyl	mg/kg	3.8 U	3.9 U	3.9 U	4 U	4.2 U	4 U	3.7 U	4 U	3.9 U	4.2 U	4.3 U	4 U	3.9 U
p-Terphenyl	mg/kg	3.8 U	3.9 U	3.9 U	4 U	4.2 U	4 U	3.7 U	4 U	3.9 U	4.2 U	4.3 U	4 U	3.9 U
Formaldehyde	ug/kg	8100	1700 U	1700 U	920 J	9500	14000	9200	1700 U	10000	2400	4900	1700 U	18000
2,6-Dinitrotoluene	ug/kg	160 U	130 U	130 U	170 U	180 U	170 U	160 U	140 U	130 U	140 U	150 U	140 U	130 U
2,4,6-Trinitrotoluene	ug/kg	160 U	130 U	130 U	170 U	180 U	170 U	160 U	140 U	130 U	140 U	150 U	140 U	130 U
RDX	ug/kg	160 U	130 U	130 U	170 U	180 U	170 U	160 U	140 U	130 U	140 U	150 U	140 U	130 U
4-Amino-2,6-Dinitrotoluene	ug/kg	160 U	130 U	130 U	170 U	180 U	170 U	160 U	140 U	130 U	140 U	150 U	140 U	130 U
HMX	ug/kg	410 U	340 U	330 U	430 U	450 U	430 U	400 U	340 U	330 U	360 U	370 U	340 U	330 U
2-Amino-4,6-Dinitrotoluene	ug/kg	160 U	130 U	130 U	170 U	180 U	170 U	160 U	140 U	130 U	140 U	150 U	140 U	130 U
Tetryl	ug/kg	160 U	130 U	130 U	170 U	180 U	170 U	160 U	140 U	130 U	140 U	150 U	140 U	130 U
Nitroglycerin	ug/kg	3300 U	2700 U	2700 U	3500 U	3600 U	3400 U	3200 U	2700 U	2700 U	2900 U	2900 U	2700 U	2600 U
2,6-Diamino-4-nitrotoluene	ug/kg	330 U	270 U	270 U	350 U	360 U	340 U	320 U	270 U	270 U	290 U	290 U	270 U	260 U
2,4-Diamino-6-nitrotoluene	ug/kg	330 U	270 U	270 U	350 U	360 U	340 U	320 U	270 U	270 U	290 U	290 U	270 U	260 U
PETN	ug/kg	3300 U	2700 U	2700 U	3500 U	3600 U	3400 U	3200 U	2700 U	2700 U	2900 U	2900 U	2700 UJ	2600 U
2-Nitrotoluene	ug/kg	160 U	130 U	130 U	170 U	180 U	170 U	160 U	140 U	130 U	140 U	150 U	140 U	130 U
3-Nitrotoluene	ug/kg	160 U	130 U	130 U	170 U	180 U	170 U	160 U	140 U	130 U	140 U	150 U	140 U	130 U
1,3,5-Trinitrobenzene	ug/kg	160 U	130 U	130 U	170 U	180 U	170 U	160 U	140 U	130 U	140 U	150 U	140 U	130 U
4-Nitrotoluene	ug/kg	160 U	130 U	130 U	170 U	180 U	170 U	160 U	140 U	130 U	140 U	150 U	140 U	130 U
2,4-Dinitrotoluene	ug/kg	160 U	130 U	130 U	170 U	180 U	170 U	160 U	140 U	130 U	140 U	150 U	140 U	130 U
Nitrobenzene	ug/kg	160 U	130 U	130 U	170 U	180 U	170 U	160 U	140 U	130 U	140 U	150 U	140 U	130 U
m-Dinitrobenzene	ug/kg	160 U	130 U	130 U	170 U	180 U	170 U	160 U	140 U	130 U	140 U	150 U	140 U	130 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-5B

	Sample Name	SL-308-SA5B-SB-14.0-15.0	SL-313-SA5B-SB-4.0-5.0	SL-313-SA5B-SB-9.0-10.0	SL-314-SA5B-SS-0.0-0.5	SL-314-SA5B-SB-4.0-5.0	SL-315-SA5B-SS-0.0-0.5	SL-315-SA5B-SB-3.0-4.0	SL-316-SA5B-SS-0.0-0.5	SL-316-SA5B-SB-4.5-5.5	SL-319-SA5B-SB-4.0-5.0	SL-321-SA5B-SB-3.0-4.0	SL-322-SA5B-SB-3.0-4.0	SL-323-SA5B-SB-4.0-5.0
	Sample Date	01/21/2011	02/08/2011	02/08/2011	02/09/2011	02/08/2011	02/08/2011	02/10/2011	02/08/2011	02/09/2011	02/10/2011	02/17/2011	02/17/2011	02/15/2011
	Lab SDG	DE066	DE078	DE078	DE079	DE078	DE078	DE080	DE078	DE079	DE080	DE084	DE084	DE082
	Start Depth	14	4	9	0	4	0	3	0	4.5	4	3	3	4
	End Depth	15	5	10	0.5	5	0.5	4	0.5	5.5	5	4	4	5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Ethanol	ug/kg	550 U	550 U	560 U	540 U	550 U	530 U	540 U	520 U	530 U	540 U	570 U	530 U	580 U
Methanol	ug/kg	1300	550 U	560 U	540 U	550 U	530 U	540 U	520 U	530 U	540 U	570 U	530 U	580 U
2-Propanol	ug/kg	550 U	550 U	560 U	540 U	550 U	530 U	540 U	520 U	530 U	540 U	570 U	530 U	580 U
Ethylene Glycol	mg/kg	14 UJ	14 U	14 U	14 UJ	14 U	13 U	13 U	13 U	13 UJ	13 U	14 U	13 U	15 U
Diethylene Glycol	mg/kg	14 UJ	16 U	14 U	14 UJ	14 U	13 U	13 U	13 U	13 UJ	13 U	14 U	13 U	15 U
Propylene glycol	mg/kg	14 UJ	14 U	14 U	14 UJ	14 U	13 U	13 U	13 U	13 UJ	13 U	14 U	13 U	15 U
o-Terphenyl	mg/kg	3.9 U	3.9 U	3.9 U	3.8 U	3.9 U	3.7 U	3.8 U	3.7 U	3.7 U	3.8 U	4 U	3.7 U	4.1 U
m-Terphenyl	mg/kg	3.9 U	3.9 U	3.9 U	3.8 U	3.9 U	3.7 U	3.8 U	3.7 U	3.7 U	3.8 U	4 U	3.7 U	4.1 U
p-Terphenyl	mg/kg	3.9 U	3.9 U	3.9 U	3.8 U	3.9 U	3.7 U	3.8 U	3.7 U	3.7 U	3.8 U	4 U	3.7 U	4.1 U
Formaldehyde	ug/kg	6800	1700 U	5100	1600 U	1700 U	1600 U	1600 U	1600 U	1600 U	1600 U	2300 U	1600 U	1700 U
2,6-Dinitrotoluene	ug/kg	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	140 U	130 U	140 U
2,4,6-Trinitrotoluene	ug/kg	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	140 U	130 U	140 U
RDX	ug/kg	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	140 U	130 U	140 U
4-Amino-2,6-Dinitrotoluene	ug/kg	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	140 U	130 U	140 U
HMX	ug/kg	330 U	330 U	340 U	320 U	330 U	320 U	320 U	310 U	320 U	320 U	340 U	320 U	350 U
2-Amino-4,6-Dinitrotoluene	ug/kg	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	140 U	130 U	140 U
Tetryl	ug/kg	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	140 U	130 U	140 U
Nitroglycerin	ug/kg	2600 U	2700 U	2700 U	2600 U	2700 U	2500 U	2600 U	2500 U	2600 U	2600 U	2700 U	2600 U	2800 U
2,6-Diamino-4-nitrotoluene	ug/kg	260 U	270 U	270 U	260 U	270 U	250 U	260 U	250 U	260 U	260 U	270 U	260 U	280 U
2,4-Diamino-6-nitrotoluene	ug/kg	260 U	270 U	270 U	260 U	270 U	250 U	260 U	250 U	260 U	260 U	270 U	260 U	280 U
PETN	ug/kg	2600 U	2700 U	2700 U	2600 U	2700 U	2500 U	2600 U	2500 U	2600 U	2600 U	2700 U	2600 U	2800 U
2-Nitrotoluene	ug/kg	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	140 U	130 U	140 U
3-Nitrotoluene	ug/kg	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	140 U	130 U	140 U
1,3,5-Trinitrobenzene	ug/kg	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	140 U	130 U	140 U
4-Nitrotoluene	ug/kg	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	140 U	130 U	140 U
2,4-Dinitrotoluene	ug/kg	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	140 U	130 U	140 U
Nitrobenzene	ug/kg	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	140 U	130 U	140 U
m-Dinitrobenzene	ug/kg	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	140 U	130 U	140 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-5B

	Sample Name	SL-323-SA5B-SB-11.0-12.0	SL-324-SA5B-SB-4.0-5.0	SL-324-SA5B-SB-8.0-9.0	SL-326-SA5B-SB-9.0-10.0	SL-326-SA5B-SB-14.0-15.0	SL-326-SA5B-SB-18.5-19.5	SL-327-SA5B-SB-4.0-5.0	SL-328-SA5B-SB-3.5-4.5	SL-329-SA5B-SS-0.0-0.5	SL-329-SA5B-SB-4.0-5.0	SL-330-SA5B-SS-0.0-0.5	SL-330-SA5B-SB-4.0-5.0	SL-331-SA5B-SS-0.0-0.5
	Sample Date	02/15/2011	02/14/2011	02/14/2011	02/10/2011	02/10/2011	02/10/2011	02/15/2011	02/09/2011	02/10/2011	02/15/2011	02/10/2011	02/15/2011	02/10/2011
	Lab SDG	DE082	DE081	DE081	DE080	DE080	DE080	DE082	DE079	DE080	DE082	DE080	DE082	DE080
	Start Depth	11	4	8	9	14	18.5	4	3.5	0	4	0	4	0
	End Depth	12	5	9	10	15	19.5	5	4.5	0.5	5	0.5	5	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Ethanol	ug/kg	550 U	540 U	540 U	560 U	590 U	550 U	540 U	540 U	530 U	550 U	520 U	560 U	530 U
Methanol	ug/kg	550 U	540 U	540 U	560 U	590 U	550 U	540 U	540 U	530 U	550 U	190 J	560 U	530 U
2-Propanol	ug/kg	550 U	540 U	540 U	560 U	590 U	550 U	540 U	540 U	530 U	550 U	520 U	560 U	530 U
Ethylene Glycol	mg/kg	14 U	13 U	13 U	14 U	15 U	14 U	14 U	13 UJ	13 U	14 U	13 U	14 U	13 U
Diethylene Glycol	mg/kg	14 U	13 U	13 U	14 U	15 U	14 U	14 U	13 UJ	13 U	14 U	13 U	14 U	13 U
Propylene glycol	mg/kg	14 U	13 U	13 U	14 U	15 U	14 U	14 U	13 UJ	13 U	14 U	13 U	14 U	13 U
o-Terphenyl	mg/kg	3.9 U	3.8 U	3.7 U	3.9 U	4.1 U	3.9 U	3.8 U	3.8 U	3.7 U	3.8 U	3.6 U	3.9 U	3.7 U
m-Terphenyl	mg/kg	3.9 U	3.8 U	3.7 U	3.9 U	4.1 U	3.9 U	3.8 U	3.8 U	3.7 U	3.8 U	3.6 U	3.9 U	3.7 U
p-Terphenyl	mg/kg	3.9 U	3.8 U	3.7 U	3.9 U	4.1 U	3.9 U	3.8 U	3.8 U	3.7 U	3.8 UJ	3.6 U	3.9 U	3.7 U
Formaldehyde	ug/kg	1700 U	1600 U	1600 U	1700 U	2200	1700 U	1600 U	1600 U	1600 U	3300 U	1600 U	1700 U	1600 U
2,6-Dinitrotoluene	ug/kg	130 U	130 U	130 U	130 U	140 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U
2,4,6-Trinitrotoluene	ug/kg	130 U	130 U	130 U	130 U	140 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U
RDX	ug/kg	130 U	130 U	130 U	130 U	140 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U
4-Amino-2,6-Dinitrotoluene	ug/kg	130 U	130 U	130 U	130 U	140 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U
HMX	ug/kg	330 U	320 U	320 U	340 U	350 U	330 U	330 U	320 U	320 U	330 U	310 U	340 U	320 U
2-Amino-4,6-Dinitrotoluene	ug/kg	130 U	130 U	130 U	130 U	140 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U
Tetryl	ug/kg	130 U	130 U	130 U	130 U	140 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U
Nitroglycerin	ug/kg	2700 U	2600 U	2600 U	2700 U	2800 U	2700 U	2600 U	2600 U	2500 U	2600 U	2500 U	2700 U	2500 U
2,6-Diamino-4-nitrotoluene	ug/kg	270 U	260 U	260 U	270 U	280 U	270 U	260 U	260 U	250 U	260 U	250 U	270 U	250 U
2,4-Diamino-6-nitrotoluene	ug/kg	270 U	260 U	260 U	270 U	280 U	270 U	260 U	260 U	250 U	260 U	250 U	270 U	250 U
PETN	ug/kg	2700 U	2600 U	2600 U	2700 U	2800 U	2700 U	2600 U	2600 U	2500 U	2600 U	2500 U	2700 U	2500 U
2-Nitrotoluene	ug/kg	130 U	130 U	130 U	130 U	140 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U
3-Nitrotoluene	ug/kg	130 U	130 U	130 U	130 U	140 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U
1,3,5-Trinitrobenzene	ug/kg	130 U	130 U	130 U	130 U	140 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U
4-Nitrotoluene	ug/kg	130 U	130 U	130 U	130 U	140 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U
2,4-Dinitrotoluene	ug/kg	130 U	130 U	130 U	130 U	140 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U
Nitrobenzene	ug/kg	130 U	130 U	130 U	130 U	140 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U
m-Dinitrobenzene	ug/kg	130 U	130 U	130 U	130 U	140 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 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-5B

	Sample Name	SL-331-SA5B-SB-3.0-4.0	SL-332-SA5B-SB-4.0-5.0	SL-333-SA5B-SB-4.0-5.0	SL-335-SA5B-SB-2.0-3.0	SL-336-SA5B-SB-4.0-5.0	SL-337-SA5B-SB-3.0-4.0
	Sample Date	02/17/2011	02/16/2011	02/16/2011	02/16/2011	02/17/2011	02/17/2011
	Lab SDG	DE084	DE083	DE083	DE083	DE084	DE084
	Start Depth	3	4	4	2	4	3
	End Depth	4	5	5	3	5	4
Chemical Name	Unit	Result	Result	Result	Result	Result	Result
Ethanol	ug/kg	540 U	550 U	570 U	550 U	580 U	570 U
Methanol	ug/kg	540 U	550 U	570 U	310 J	580 U	570 U
2-Propanol	ug/kg	540 U	550 U	570 U	550 U	580 U	570 U
Ethylene Glycol	mg/kg	13 U	14 U	14 U	14 U	14 U	14 U
Diethylene Glycol	mg/kg	13 U	14 UJ	14 U	14 U	14 U	14 U
Propylene glycol	mg/kg	13 U	14 U	14 U	14 U	14 U	14 U
o-Terphenyl	mg/kg	3.8 U	3.9 U	4 U	3.8 U	4 U	4 U
m-Terphenyl	mg/kg	3.8 U	3.9 U	4 U	3.8 U	4 U	4 U
p-Terphenyl	mg/kg	3.8 U	3.9 U	4 U	3.8 U	4 U	4 U
Formaldehyde	ug/kg	1600 U	1700 U	1700 U	1600 U	3500 U	3400 U
2,6-Dinitrotoluene	ug/kg	130 U	130 U	140 U	130 U	140 U	140 U
2,4,6-Trinitrotoluene	ug/kg	130 U	130 U	140 U	130 U	140 U	140 U
RDX	ug/kg	130 U	130 U	140 U	130 U	140 U	140 U
4-Amino-2,6-Dinitrotoluene	ug/kg	130 U	130 U	140 U	130 U	140 U	140 U
HMX	ug/kg	320 U	330 U	340 U	330 U	350 U	340 U
2-Amino-4,6-Dinitrotoluene	ug/kg	130 U	130 U	140 U	130 U	140 U	140 U
Tetryl	ug/kg	130 U	130 U	140 U	130 U	140 U	140 U
Nitroglycerin	ug/kg	2600 U	2600 U	2700 U	2600 U	2800 U	2700 U
2,6-Diamino-4-nitrotoluene	ug/kg	260 U	260 U	270 U	260 U	280 U	270 U
2,4-Diamino-6-nitrotoluene	ug/kg	260 U	260 U	270 U	260 U	280 U	270 U
PETN	ug/kg	2600 U	2600 U	2700 U	2600 U	2800 U	2700 U
2-Nitrotoluene	ug/kg	130 U	130 U	140 U	130 U	140 U	140 U
3-Nitrotoluene	ug/kg	130 U	130 U	140 U	130 U	140 U	140 U
1,3,5-Trinitrobenzene	ug/kg	130 U	130 U	140 U	130 U	140 U	140 U
4-Nitrotoluene	ug/kg	130 U	130 U	140 U	130 U	140 U	140 U
2,4-Dinitrotoluene	ug/kg	130 U	130 U	140 U	130 U	140 U	140 U
Nitrobenzene	ug/kg	130 U	130 U	140 U	130 U	140 U	140 U
m-Dinitrobenzene	ug/kg	130 U	130 U	140 U	130 U	140 U	140 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-5B

	Sample Name	SL-001-SA5B-SS-0.0-0.5	SL-002-SA5B-SS-0.0-0.5	SL-003-SA5B-SS-0.0-0.5	SL-004-SA5B-SS-0.0-0.5	SL-005-SA5B-SS-0.0-0.5	SL-006-SA5B-SS-0.0-0.5	SL-006-SA5B-SB-4.0-5.0	SL-006-SA5B-SB-5.0-6.0	SL-007-SA5B-SS-0.0-0.5	SL-008-SA5B-SS-0.0-0.5	SL-009-SA5B-SS-0.0-0.5	SL-010-SA5B-SS-0.0-0.5	SL-011-SA5B-SS-0.0-0.5
	Sample Date	12/09/2010	12/09/2010	12/09/2010	12/09/2010	12/09/2010	12/09/2010	12/21/2010	12/21/2010	12/09/2010	12/10/2010	12/10/2010	12/09/2010	12/09/2010
	Lab SDG	DX016	DX016	DX015	DX015	DX015	DX016	DX032	DX032	DX016	DX018	DX018	DX016	DX016
	Start Depth	0	0	0	0	0	0	4	5	0	0	0	0	0
	End Depth	0.5	0.5	0.5	0.5	0.5	0.5	5	6	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
2,3,7,8-TCDD	ng/kg	0.0569 J	0.0559 J	1.09 U	0.15 J	0.278 J	0.0363 J	1.09 U	1.21 U	0.0684 J	1.79	0.887 J	0.251 J	0.051 J
1,2,3,7,8,9-HxCDD	ng/kg	0.544 J	0.997 J	2.79 J	8.24	10.7	0.962 J	0.466 J	0.165 J	2.02 J	74.6	34.7	9.47	1.31 J
OCDD	ng/kg	270	400	1050	1730	2610	307	37.2	23.1	563	130000 J	42300 J	6840 J	719
1,2,3,4,6,7,8-HpCDD	ng/kg	18.8	33.1	84	166	230	29.9	2.82 J	3.05 J	49.9	6770 J	2610 J	517	48.3
OCDF	ng/kg	6.54 J	9.92 J	28.4	64.9	98.4	11	1.09 J	12.1 U	17.7	3940	1480	261	20.6
1,2,3,4,7,8-HxCDD	ng/kg	0.231 J	0.477 J	1.34 J	3.56 J	5.06 J	0.584 J	5.43 U	6.05 U	0.752 J	37.8	18.7	4.69 J	0.64 J
1,2,3,7,8-PeCDD	ng/kg	0.159 J	0.299 J	0.697 J	1.9 J	2.65 J	0.354 J	5.43 U	6.05 U	0.502 J	18.2	8.89	2.47 J	0.487 J
2,3,7,8-TCDF	ng/kg	0.0416 J	0.0441 J	1.09 U	1.07 U	0.213 J	1.08 U	1.09 U	1.21 U	1.07 U	1.82	0.696 J	0.124 J	0.0658 J
1,2,3,4,7,8,9-HpCDF	ng/kg	0.314 J	0.502 J	1.14 J	1.85 J	2.61 J	0.366 J	5.43 U	6.05 U	0.513 J	74.5	29.5	5.39 J	0.54 J
2,3,4,7,8-PeCDF	ng/kg	0.179 J	0.173 J	5.43 U	5.37 U	5.25 U	0.172 J	5.43 U	6.05 U	0.201 J	17.1	6.69	1.14 J	0.296 J
1,2,3,7,8-PeCDF	ng/kg	0.107 J	0.146 J	5.43 U	5.37 U	5.25 U	0.0934 J	5.43 U	6.05 U	0.128 J	8.91	3.44 J	0.657 J	0.192 J
1,2,3,6,7,8-HxCDF	ng/kg	0.204 J	0.348 J	0.918 J	1.78 J	2.87 J	0.385 J	5.43 U	6.05 U	0.483 J	35.5	14.1	3.13 J	0.409 J
1,2,3,6,7,8-HxCDD	ng/kg	0.695 J	1.1 J	2.71 J	6.3	8.68	0.961 J	0.323 J	0.154 J	1.78 J	192	75.1	16.3	1.77 J
2,3,4,6,7,8-HxCDF	ng/kg	0.274 J	0.442 J	5.43 U	2.73 J	3.82 J	0.419 J	5.43 U	6.05 U	0.645 J	40.2	16.2	3.77 J	0.565 J
1,2,3,4,6,7,8-HpCDF	ng/kg	3.17 J	5.04 J	14.5	29.2	40.7	4.58 J	0.416 J	0.401 J	7.81	1120	425	84.9	7.15
1,2,3,4,7,8-HxCDF	ng/kg	0.224 J	0.294 J	5.43 U	1.04 J	1.77 J	0.208 J	5.43 U	6.05 U	0.35 J	56.2	22.3	3.9 J	0.47 J
1,2,3,7,8,9-HxCDF	ng/kg	0.152 J	0.179 J	5.43 U	5.37 U	5.25 U	0.139 J	5.43 U	6.05 U	0.164 J	24.4	8.64	1.44 J	0.203 J
Aroclor 1260	ug/kg	1.8 U	0.74 J	0.47 J	0.72 J	0.5 J	1.8 U	0.43 J	2.1 U	0.53 J	1.8 U	1.4 J	1.9 U	9.3 U
Aroclor 1254	ug/kg	1.2 J	1.8 U	1.8 U	0.64 J	0.68 J	0.44 J	1.5 J	2.1 U	1.8 U	1.5 J	0.86 J	1.9 U	9.3 U
Aroclor 1268	ug/kg	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	2.1 U	1.8 U	1.8 U	1.8 U	1.9 U	9.3 U
Aroclor 1221	ug/kg	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	2.1 U	1.8 U	1.8 U	1.8 U	1.9 U	9.3 U
Aroclor 5460	ug/kg	3.5 UJ	3.5 UJ	3.6 U	3.5 U	3.5 U	3.6 UJ	3.6 U	4 U	3.5 UJ	3.4 U	3.9	3.6 UJ	18 UJ
Aroclor 1232	ug/kg	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	2.1 U	1.8 U	1.8 U	1.8 U	1.9 U	9.3 U
Aroclor 5442	ug/kg	3.5 UJ	3.5 UJ	3.6 U	3.5 U	3.5 U	3.6 UJ	3.6 UJ	4 UJ	3.5 UJ	3.4 U	3.5 U	3.6 UJ	18 UJ
Aroclor 1248	ug/kg	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	2.1 U	1.8 U	1.8 U	1.8 U	1.9 U	34
Aroclor 1016	ug/kg	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	2.1 U	1.8 U	1.8 U	1.8 U	1.9 U	9.3 U
Aroclor 1262	ug/kg	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	2.1 U	1.8 U	1.8 U	1.8 U	1.9 U	9.3 U
Aroclor 1242	ug/kg	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	2.1 U	1.8 U	1.8 U	1.8 U	1.9 U	9.3 U
Aroclor 5432	ug/kg	3.5 UJ	3.5 UJ	3.6 U	3.5 U	3.5 U	3.6 UJ	3.6 U	4 U	3.5 UJ	3.4 U	3.5 U	3.6 UJ	18 UJ

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-5B

	Sample Name	SL-012-SA5B-SS-0.0-0.5	SL-013-SA5B-SS-0.0-0.5	SL-014-SA5B-SS-0.0-0.5	SL-014-SA5B-SB-4.0-5.0	SL-015-SA5B-SB-4.0-5.0	SL-016-SA5B-SB-4.0-5.0	SL-016-SA5B-SB-9.0-10.0	SL-017-SA5B-SS-0.0-0.5	SL-017-SA5B-SB-4.0-5.0	SL-017-SA5B-SB-9.0-10.0	SL-018-SA5B-SS-0.0-0.5	SL-018-SA5B-SB-4.0-5.0	SL-018-SA5B-SB-9.0-10.0
	Sample Date	12/09/2010	12/09/2010	12/09/2010	01/20/2011	01/26/2011	01/26/2011	01/26/2011	12/08/2010	01/27/2011	01/27/2011	12/09/2010	01/26/2011	01/26/2011
	Lab SDG	DX016	DX016	DX016	DX042	DX044	DX044	DX044	DX017	DX045	DX045	DX016	DX044	DX044
	Start Depth	0	0	0	4	4	4	9	0	4	9	0	4	9
	End Depth	0.5	0.5	0.5	5	5	5	10	0.5	5	10	0.5	5	10
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
2,3,7,8-TCDD	ng/kg	0.045 J	0.766 J	0.0274 J	1.13 U	1.16 U	1.14 U	1.1 U	1.09 U	0.0365 J	1.11 U	1.1 U	1.16 U	1.12 U
1,2,3,7,8,9-HxCDD	ng/kg	1.23 J	63.7	0.179 J	0.662 J	0.832 J	0.506 J	1.5 J	5.46 U	0.212 J	0.337 J	0.227 J	0.342 J	1.34 J
OCDD	ng/kg	494	15100 J	98.8	396	286	207	424	176 J	684	62.7	89	12.5	11.2 U
1,2,3,4,6,7,8-HpCDD	ng/kg	34.6	1460	6.67	23.5	21.5	14.1	37	13.7	26.6	5.42 J	6.53	1.45 J	5.61 U
OCDF	ng/kg	12.4	628	2.28 J	7.89 J	6.46 J	3.23 J	10.6 J	3.9 J	2.24 J	1.64 J	2.11 J	11.6 U	11.2 U
1,2,3,4,7,8-HxCDD	ng/kg	0.537 J	30.6	0.0779 J	5.66 U	0.26 J	0.137 J	0.59 J	0.127 J	0.0755 J	0.0355 J	0.112 J	5.8 U	5.61 U
1,2,3,7,8-PeCDD	ng/kg	0.295 J	14.2	0.101 J	5.66 U	0.274 J	5.71 U	0.367 J	5.46 U	5.77 U	5.54 U	0.0635 J	5.8 U	5.61 U
2,3,7,8-TCDF	ng/kg	0.034 J	0.267 J	0.0468 J	1.13 U	0.0888 J	1.14 U	1.1 U	0.0325 J	0.0261 J	0.0312 J	1.1 U	1.16 U	1.12 U
1,2,3,4,7,8,9-HpCDF	ng/kg	0.372 J	17.7	0.142 J	5.66 U	0.241 J	5.71 U	0.365 J	5.46 U	5.77 U	5.54 U	0.102 J	5.8 U	5.61 U
2,3,4,7,8-PeCDF	ng/kg	0.171 J	2.52 J	0.186 J	5.66 U	5.81 U	5.71 U	5.52 U	5.46 U	5.77 U	5.54 U	0.111 J	5.8 U	5.61 U
1,2,3,7,8-PeCDF	ng/kg	0.0808 J	1.09 J	0.162 J	5.66 U	0.252 J	5.71 U	5.52 U	5.46 U	0.0701 J	5.54 U	0.0735 J	5.8 U	5.61 U
1,2,3,6,7,8-HxCDF	ng/kg	0.307 J	16.1	0.162 J	0.275 J	0.318 J	5.71 U	0.388 J	5.46 U	5.77 U	5.54 U	0.0953 J	5.8 U	0.261 J
1,2,3,6,7,8-HxCDD	ng/kg	1.27 J	49.6	0.21 J	0.959 J	0.882 J	0.54 J	1.37 J	0.566 J	0.327 J	0.324 J	0.215 J	0.221 J	0.61 J
2,3,4,6,7,8-HxCDF	ng/kg	0.445 J	21.1	0.226 J	5.66 U	5.81 U	5.71 U	0.495 J	5.46 U	5.77 U	5.54 U	0.122 J	5.8 U	5.61 U
1,2,3,4,6,7,8-HpCDF	ng/kg	5.36 J	259	5.56 U	2.09 J	2.69 J	1.42 J	5.11 J	5.46 U	0.757 J	0.623 J	5.5 U	5.8 U	5.61 U
1,2,3,4,7,8-HxCDF	ng/kg	0.227 J	7.53	0.195 J	5.66 U	5.81 U	5.71 U	5.52 U	5.46 U	5.77 U	5.54 U	0.0848 J	5.8 U	5.61 U
1,2,3,7,8,9-HxCDF	ng/kg	0.113 J	1.06 J	0.0995 J	5.66 U	5.81 U	5.71 U	5.52 U	5.46 U	5.77 U	5.54 U	0.114 J	5.8 U	5.61 U
Aroclor 1260	ug/kg	1.9 UJ	1.7 J	0.47 J	1.9 U	0.47 J	1.9 U	1.9 U	0.89 J	2 U	0.89 J	0.52 J	2 U	1.9 U
Aroclor 1254	ug/kg	1.9 U	1 J	1.9 U	0.43 J	0.91 J	0.9 J	0.89 J	0.79 J	0.62 J	1.9 U	0.46 J	1.2 J	1.9 U
Aroclor 1268	ug/kg	1.9 U	1.8 U	1.9 U	1.9 U	2 U	1.9 U	1.9 U	1.9 U	2 U	1.9 U	1.9 U	2 U	1.9 U
Aroclor 1221	ug/kg	1.9 U	1.8 U	1.9 U	1.9 U	2 U	1.9 U	1.9 U	1.9 U	2 U	1.9 U	1.9 U	2 U	1.9 U
Aroclor 5460	ug/kg	3.6 UJ	3.6 UJ	1.3 J	3.7 U	3.8 UJ	3.8 UJ	3.6 UJ	3.6 U	3.8 UJ	3.7 UJ	1.3 J	3.8 UJ	3.7 UJ
Aroclor 1232	ug/kg	1.9 U	1.8 U	1.9 U	1.9 U	2 U	1.9 U	1.9 U	1.9 U	2 U	1.9 U	1.9 U	2 U	1.9 U
Aroclor 5442	ug/kg	3.6 UJ	3.6 UJ	3.7 UJ	3.7 U	3.8 UJ	3.8 UJ	3.6 UJ	3.6 U	3.8 UJ	3.7 UJ	3.6 UJ	3.8 UJ	3.7 UJ
Aroclor 1248	ug/kg	1.9 U	1.8 U	1.9 U	1.9 U	2 U	1.9 U	1.9 U	1.9 U	2 U	1.9 U	1.9 U	2 U	1.9 U
Aroclor 1016	ug/kg	1.9 U	1.8 U	1.9 U	1.9 U	2 U	1.9 U	1.9 U	1.9 U	2 U	1.9 U	1.9 U	2 U	1.9 U
Aroclor 1262	ug/kg	1.9 U	1.8 U	1.9 U	1.9 U	2 U	1.9 U	1.9 U	1.9 U	2 U	1.9 U	1.9 U	2 U	1.9 U
Aroclor 1242	ug/kg	1.9 U	1.8 U	1.9 U	1.9 U	2 U	1.9 U	1.9 U	1.9 U	2 U	1.9 U	1.9 U	2 U	1.9 U
Aroclor 5432	ug/kg	3.6 UJ	3.6 UJ	3.7 UJ	3.7 U	3.8 UJ	3.8 UJ	3.6 UJ	3.6 U	3.8 UJ	3.7 UJ	3.6 UJ	3.8 UJ	3.7 UJ

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-5B

	Sample Name	SL-019-SA5B-SB-4.0-5.0	SL-020-SA5B-SS-0.0-0.5	SL-021-SA5B-SB-4.0-5.0	SL-021-SA5B-SB-9.0-10.0	SL-022-SA5B-SS-0.0-0.5	SL-022-SA5B-SB-2.0-3.0	SL-024-SA5B-SS-0.0-0.5	SL-024-SA5B-SB-4.0-5.0	SL-024-SA5B-SB-9.0-10.0	SL-025-SA5B-SB-4.0-5.0	SL-025-SA5B-SB-9.0-10.0	SL-026-SA5B-SS-0.0-0.5	SL-026-SA5B-SB-4.0-5.0
	Sample Date	01/20/2011	12/09/2010	01/27/2011	01/27/2011	12/08/2010	01/19/2011	12/22/2010	01/19/2011	01/19/2011	01/19/2011	01/19/2011	12/08/2010	12/17/2010
	Lab SDG	DX042	DX016	DX045	DX045	DX016	DX040	DX034	DX040	DX040	DX040	DX040	DX015	DX029
	Start Depth	4	0	4	9	0	2	0	4	9	4	9	0	4
	End Depth	5	0.5	5	10	0.5	3	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
2,3,7,8-TCDD	ng/kg	1.11 U	0.0265 J	0.966 J	0.0538 J	0.0402 J	1.03 U	1.25 U	1.14 U	1.1 U	0.0249 J	1.11 U	0.0323 J	1.12 U
1,2,3,7,8,9-HxCDD	ng/kg	5.53 U	0.898 J	35.6	1.32 J	0.371 J	0.0974 J	0.299 J	5.69 U	0.317 J	0.623 J	0.188 J	5.35 U	5.62 U
OCDD	ng/kg	11.1 U	427	72500 J	350	237	12.7	80.2	11.4 U	4.7 J	16.8	20.5	78.3	11.2 U
1,2,3,4,6,7,8-HpCDD	ng/kg	5.53 U	28.7	2540 J	28.6	17.1	5.13 U	8.82	5.69 U	5.51 U	5.46 U	2.28 J	6.96	5.62 U
OCDF	ng/kg	11.1 U	10.9	795	7.78 J	4.74 J	10.3 U	2.68 J	11.4 U	11 U	10.9 U	11.1 U	10.7 U	11.2 U
1,2,3,4,7,8-HxCDD	ng/kg	5.53 U	0.428 J	14.2	0.454 J	0.186 J	5.13 U	0.156 J	5.69 U	5.51 U	5.46 U	5.56 U	5.35 U	5.62 U
1,2,3,7,8-PeCDD	ng/kg	5.53 U	0.268 J	6.39	0.301 J	0.0944 J	5.13 U	0.104 J	5.69 U	5.51 U	5.46 U	5.56 U	5.35 U	5.62 U
2,3,7,8-TCDF	ng/kg	1.11 U	0.046 J	0.465 J	0.0454 J	1.09 U	0.0313 J	1.25 U	0.0292 J	1.1 U	0.0242 J	1.11 U	1.07 U	1.12 U
1,2,3,4,7,8,9-HpCDF	ng/kg	5.53 U	0.351 J	6.54	0.256 J	0.188 J	5.13 U	6.27 U	5.69 U	5.51 U	5.46 U	5.56 U	5.35 U	5.62 U
2,3,4,7,8-PeCDF	ng/kg	5.53 U	0.127 J	2.65 J	5.6 U	0.197 J	5.13 U	6.27 U	5.69 U	5.51 U	5.46 U	5.56 U	5.35 U	5.62 U
1,2,3,7,8-PeCDF	ng/kg	5.53 U	0.106 J	2.13 J	0.0767 J	0.162 J	5.13 U	6.27 U	5.69 U	5.51 U	5.46 U	5.56 U	5.35 U	5.62 U
1,2,3,6,7,8-HxCDF	ng/kg	5.53 U	0.23 J	3.36 J	0.35 J	0.159 J	5.13 U	6.27 U	5.69 U	5.51 U	5.46 U	5.56 U	5.35 U	5.62 U
1,2,3,6,7,8-HxCDD	ng/kg	5.53 U	1.03 J	90.8	1.21 J	0.515 J	5.13 U	0.372 J	5.69 U	0.195 J	0.41 J	5.56 U	0.344 J	5.62 U
2,3,4,6,7,8-HxCDF	ng/kg	5.53 U	0.33 J	3.53 J	0.369 J	0.22 J	5.13 U	0.228 J	5.69 U	5.51 U	5.46 U	5.56 U	5.35 U	5.62 U
1,2,3,4,6,7,8-HpCDF	ng/kg	5.53 U	4.12 J	134	3.54 J	2.06 J	5.13 U	0.949 J	5.69 U	5.51 U	5.46 U	5.56 U	5.35 U	5.62 U
1,2,3,4,7,8-HxCDF	ng/kg	5.53 U	0.23 J	11.2	5.6 U	0.174 J	5.13 U	0.202 J	5.69 U	5.51 U	5.46 U	5.56 U	5.35 U	5.62 U
1,2,3,7,8,9-HxCDF	ng/kg	5.53 U	0.178 J	2.96 J	0.171 J	0.143 J	5.13 U	6.27 U	5.69 U	5.51 U	5.46 U	5.56 U	5.35 U	5.62 U
Aroclor 1260	ug/kg	1.9 U	0.62 J	1.9 U	1.9 U	1.1 J	1.7 U	1.2 J	1.9 U	1.9 U	1.9 U	1.9 U	0.87 J	1.9 U
Aroclor 1254	ug/kg	1.9 U	1.9 J	1.9 U	2.3	1 J	1.2 J	2.1 U	1.9 U	1.9 U	1.9 U	1.9 U	0.49 J	0.49 J
Aroclor 1268	ug/kg	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.7 U	2.1 U	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	1.9 U
Aroclor 1221	ug/kg	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.7 U	2.1 U	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	1.9 U
Aroclor 5460	ug/kg	3.7 U	3.6 UJ	3.7 UJ	3.7 UJ	2 J	1.8 J	1.4 J	3.8 UJ	3.6 UJ	3.6 UJ	3.7 UJ	1.5 J	3.7 UJ
Aroclor 1232	ug/kg	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.7 U	2.1 U	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	1.9 U
Aroclor 5442	ug/kg	3.7 U	3.6 UJ	3.7 UJ	3.7 UJ	3.6 UJ	3.4 UJ	4.1 U	3.8 UJ	3.6 UJ	3.6 UJ	3.7 UJ	3.5 U	3.7 UJ
Aroclor 1248	ug/kg	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.7 U	22	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	1.9 U
Aroclor 1016	ug/kg	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.7 U	2.1 U	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	1.9 U
Aroclor 1262	ug/kg	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.7 U	2.1 U	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	1.9 U
Aroclor 1242	ug/kg	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.7 U	2.1 U	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	1.9 U
Aroclor 5432	ug/kg	3.7 U	3.6 UJ	3.7 UJ	3.7 UJ	3.6 UJ	3.4 UJ	4.1 U	3.8 UJ	3.6 UJ	3.6 UJ	3.7 UJ	3.5 U	3.7 UJ

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-5B

	Sample Name	SL-026-SA5B-SB-9.0-10	SL-027-SA5B-SS-0.0-0.5	SL-027-SA5B-SB-4.0-5.0	SL-027-SA5B-SB-8.0-9.0	SL-029-SA5B-SS-0.0-0.5	SL-029-SA5B-SB-4.0-5.0	SL-029-SA5B-SB-9.0-10.0	SL-030-SA5B-SB-4.0-5.0	SL-030-SA5B-SB-9.0-10.0	SL-031-SA5B-SS-0.0-0.5	SL-031-SA5B-SB-4.0-5.0	SL-031-SA5B-SB-9.0-10.0	SL-032-SA5B-SS-0.0-0.5
	Sample Date	12/17/2010	01/05/2011	12/15/2010	12/15/2010	12/08/2010	01/20/2011	01/20/2011	01/20/2011	01/20/2011	12/08/2010	01/19/2011	01/19/2011	12/08/2010
	Lab SDG	DX029	DX035	DX025	DX025	DX017	DX042	DX042	DX042	DX042	DX016	DX041	DX041	DX015
	Start Depth	9	0	4	8	0	4	9	4	9	0	4	9	0
	End Depth	10	0.5	5	9	0.5	5	10	5	10	0.5	5	10	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
2,3,7,8-TCDD	ng/kg	1.09 U	1.17 U	1.2 U	1.1 U	1.09 U	1.15 U	1.13 U	1.17 U	1.15 U	0.0462 J	1.15 U	1.08 U	1.08 U
1,2,3,7,8,9-HxCDD	ng/kg	5.46 U	0.271 J	5.98 U	5.49 U	0.961 J	0.691 J	0.819 J	0.281 J	0.402 J	0.248 J	0.548 J	5.38 U	5.42 U
OCDD	ng/kg	10.9 U	16.3	12 U	11 U	242	363	281	106	53.5	119	5.9 J	10.8 U	126
1,2,3,4,6,7,8-HpCDD	ng/kg	5.46 U	2.06 J	5.98 U	5.49 U	21.4	26.9	21.5	7.18	5.49 J	9.98	5.77 U	5.38 U	12.1
OCDF	ng/kg	10.9 U	11.7 U	12 U	11 U	7.6 J	6.5 J	5.29 J	1.75 J	11.5 U	2.96 J	11.5 U	10.8 U	10.8 U
1,2,3,4,7,8-HxCDD	ng/kg	5.46 U	5.83 U	5.98 U	5.49 U	0.327 J	0.248 J	0.339 J	5.86 U	5.73 U	0.058 J	5.77 U	5.38 U	5.42 U
1,2,3,7,8-PeCDD	ng/kg	5.46 U	5.83 U	5.98 U	5.49 U	5.47 U	0.296 J	0.264 J	5.86 U	5.73 U	0.0807 J	5.77 U	5.38 U	5.42 U
2,3,7,8-TCDF	ng/kg	1.09 U	1.17 U	1.2 U	1.1 U	0.0335 J	1.15 U	0.0814 J	1.17 U	1.15 U	0.028 J	1.15 U	1.08 U	1.08 U
1,2,3,4,7,8,9-HpCDF	ng/kg	5.46 U	5.83 U	5.98 U	5.49 U	5.47 U	5.73 U	5.64 U	5.86 U	5.73 U	0.211 J	5.77 U	5.38 U	5.42 U
2,3,4,7,8-PeCDF	ng/kg	5.46 U	5.83 U	5.98 U	5.49 U	5.47 U	5.73 U	5.64 U	5.86 U	5.73 U	0.169 J	5.77 U	5.38 U	5.42 U
1,2,3,7,8-PeCDF	ng/kg	5.46 U	5.83 U	5.98 U	5.49 U	5.47 U	5.73 U	5.64 U	5.86 U	5.73 U	0.104 J	5.77 U	5.38 U	5.42 U
1,2,3,6,7,8-HxCDF	ng/kg	5.46 U	5.83 U	5.98 U	5.49 U	5.47 U	5.73 U	5.64 U	5.86 U	5.73 U	0.151 J	5.77 U	5.38 U	5.42 U
1,2,3,6,7,8-HxCDD	ng/kg	5.46 U	0.245 J	5.98 U	5.49 U	0.832 J	0.791 J	0.897 J	0.243 J	0.333 J	0.329 J	0.379 J	5.38 U	0.399 J
2,3,4,6,7,8-HxCDF	ng/kg	5.46 U	5.83 U	5.98 U	5.49 U	5.47 U	5.73 U	5.64 U	5.86 U	5.73 U	0.232 J	5.77 U	5.38 U	5.42 U
1,2,3,4,6,7,8-HpCDF	ng/kg	5.46 U	5.83 U	5.98 U	5.49 U	3.15 J	2.25 J	2.54 J	5.86 U	5.73 U	5.44 U	5.77 U	5.38 U	5.42 U
1,2,3,4,7,8-HxCDF	ng/kg	5.46 U	5.83 U	5.98 U	5.49 U	5.47 U	5.73 U	5.64 U	5.86 U	5.73 U	0.172 J	5.77 U	5.38 U	5.42 U
1,2,3,7,8,9-HxCDF	ng/kg	5.46 U	5.83 U	5.98 U	5.49 U	5.47 U	5.73 U	5.64 U	5.86 U	0.542 J	0.158 J	5.77 U	5.38 U	5.42 U
Aroclor 1260	ug/kg	1.9 U	2 U	2 U	1.9 U	1.9 U	1.9 U	1.9 U	2 U	1.9 U	1.3 J	2 U	1.8 U	1.8 U
Aroclor 1254	ug/kg	1.9 U	2 U	2 U	1.9 U	3.2	1.3 J	1.5 J	0.66 J	1.2 J	1.5 J	1.2 J	1.8 U	0.8 J
Aroclor 1268	ug/kg	1.9 U	2 U	2 U	1.9 U	1.9 U	1.9 U	1.9 U	2 U	1.9 U	1.8 U	2 U	1.8 U	1.8 U
Aroclor 1221	ug/kg	1.9 U	2 U	2 U	1.9 U	1.9 U	1.9 U	1.9 U	2 U	1.9 U	1.8 U	2 U	1.8 U	1.8 U
Aroclor 5460	ug/kg	3.6 UJ	3.8 U	3.9 UJ	3.6 UJ	7.6	3.8 U	3.7 U	3.9 U	3.8 U	2 J	3.8 UJ	3.6 UJ	3.6 U
Aroclor 1232	ug/kg	1.9 U	2 U	2 U	1.9 U	1.9 U	1.9 U	1.9 U	2 U	1.9 U	1.8 U	2 U	1.8 U	1.8 U
Aroclor 5442	ug/kg	3.6 UJ	3.8 U	3.9 UJ	3.6 UJ	3.6 U	3.8 U	3.7 U	3.9 U	3.8 U	3.6 UJ	3.8 UJ	3.6 UJ	3.6 U
Aroclor 1248	ug/kg	1.9 U	2 U	2 U	1.9 U	1.9 U	1.9 U	0.81 J	2 U	1.9 U	1.8 U	2 U	1.8 U	1.8 U
Aroclor 1016	ug/kg	1.9 U	2 U	2 U	1.9 U	1.9 U	1.9 U	1.9 U	2 U	1.9 U	1.8 U	2 U	1.8 U	1.8 U
Aroclor 1262	ug/kg	1.9 U	2 U	2 U	1.9 U	1.9 U	1.9 U	1.9 U	2 U	1.9 U	1.8 U	2 U	1.8 U	1.8 U
Aroclor 1242	ug/kg	1.9 U	2 U	2 U	1.9 U	1.9 U	1.9 U	1.9 U	2 U	1.9 U	1.8 U	2 U	1.8 U	1.8 U
Aroclor 5432	ug/kg	3.6 UJ	3.8 U	3.9 UJ	3.6 UJ	3.6 U	3.8 U	3.7 U	3.9 U	3.8 U	3.6 UJ	3.8 UJ	3.6 UJ	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-5B

	Sample Name	SL-032-SA5B-SB-4.0-5.0	SL-032-SA5B-SB-9.0-10.0	SL-032-SA5B-SB-14.0-15.0	SL-033-SA5B-SB-4.0-5.0	SL-033-SA5B-SB-9.0-10.0	SL-033-SA5B-SB-14.0-15.0	SL-034-SA5B-SS-0.0-0.5	SL-034-SA5B-SB-4.0-5.0	SL-034-SA5B-SB-9.0-10.0	SL-035-SA5B-SS-0.0-0.5	SL-035-SA5B-SB-4.0-5.0	SL-035-SA5B-SB-7.0-8.0	SL-036-SA5B-SS-0.0-0.5
	Sample Date	01/24/2011	01/24/2011	01/24/2011	01/24/2011	01/24/2011	01/24/2011	12/08/2010	01/20/2011	01/20/2011	12/08/2010	01/20/2011	01/20/2011	12/08/2010
	Lab SDG	DX043	DX043	DX043	DX043	DX043	DX043	DX017	DX042	DX042	DX017	DX042	DX042	DX017
	Start Depth	4	9	14	4	9	14	0	4	9	0	4	7	0
	End Depth	5	10	15	5	10	15	0.5	5	10	0.5	5	8	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
2,3,7,8-TCDD	ng/kg	1.11 U	1.11 U	1.13 U	1.11 U	1.12 U	1.11 U	1.09 U	1.14 U	1.1 U	1.11 U	1.1 U	1.08 U	1.11 U
1,2,3,7,8,9-HxCDD	ng/kg	0.644 J	5.55 U	5.64 U	5.53 U	5.59 U	5.56 U	0.684 J	0.661 J	0.593 J	5.54 U	0.963 J	0.238 J	0.651 J
OCDD	ng/kg	332	20.2	5.5 J	10.1 J	18.9	21.1	244	241	337	89.7	233	72.3	244
1,2,3,4,6,7,8-HpCDD	ng/kg	22.5	5.55 U	5.64 U	5.53 U	5.59 U	3.63 J	20.8	19.1	23.7	7.97	21.3	5.73	19
OCDF	ng/kg	5.61 J	11.1 U	11.3 U	11.1 U	11.2 U	11.1 U	6.41 J	3.74 J	4.99 J	2.91 J	6.22 J	10.8 U	5.23 J
1,2,3,4,7,8-HxCDD	ng/kg	5.56 U	5.55 U	5.64 U	5.53 U	5.59 U	5.56 U	0.253 J	5.68 U	5.52 U	0.144 J	0.334 J	5.41 U	0.287 J
1,2,3,7,8-PeCDD	ng/kg	5.56 U	5.55 U	5.64 U	5.53 U	5.59 U	5.56 U	5.46 U	5.68 U	5.52 U	5.54 U	5.5 U	5.41 U	5.53 U
2,3,7,8-TCDF	ng/kg	1.11 U	0.0437 J	1.13 U	1.11 U	0.0344 J	0.0842 J	0.0978 J	1.14 U	0.0641 J	0.0532 J	0.0743 J	1.08 U	0.0659 J
1,2,3,4,7,8,9-HpCDF	ng/kg	5.56 U	5.55 U	5.64 U	5.53 U	5.59 U	5.56 U	5.46 U	5.68 U	5.52 U	5.54 U	5.5 U	5.41 U	5.53 U
2,3,4,7,8-PeCDF	ng/kg	5.56 U	5.55 U	5.64 U	5.53 U	5.59 U	5.56 U	5.46 U	5.68 U	5.52 U	5.54 U	5.5 U	5.41 U	5.53 U
1,2,3,7,8-PeCDF	ng/kg	5.56 U	5.55 U	5.64 U	5.53 U	5.59 U	5.56 U	5.46 U	5.68 U	5.52 U	5.54 U	5.5 U	5.41 U	5.53 U
1,2,3,6,7,8-HxCDF	ng/kg	5.56 U	5.55 U	5.64 U	5.53 U	5.59 U	5.56 U	5.46 U	5.68 U	5.52 U	5.54 U	0.271 J	5.41 U	5.53 U
1,2,3,6,7,8-HxCDD	ng/kg	0.855 J	5.55 U	5.64 U	5.53 U	5.59 U	5.56 U	0.874 J	0.707 J	0.956 J	5.54 U	0.918 J	0.248 J	0.793 J
2,3,4,6,7,8-HxCDF	ng/kg	5.56 U	5.55 U	5.64 U	5.53 U	5.59 U	5.56 U	5.46 U	5.68 U	5.52 U	5.54 U	5.5 U	5.41 U	5.53 U
1,2,3,4,6,7,8-HpCDF	ng/kg	1.95 J	5.55 U	5.64 U	5.53 U	5.59 U	5.56 U	5.46 U	1.64 J	2.09 J	5.54 U	2.76 J	5.41 U	5.53 U
1,2,3,4,7,8-HxCDF	ng/kg	5.56 U	5.55 U	5.64 U	5.53 U	5.59 U	5.56 U	5.46 U	5.68 U	5.52 U	5.54 U	5.5 U	5.41 U	5.53 U
1,2,3,7,8,9-HxCDF	ng/kg	5.56 U	5.55 U	5.64 U	5.53 U	5.59 U	5.56 U	5.46 U	5.68 U	5.52 U	5.54 U	5.5 U	5.41 U	5.53 U
Aroclor 1260	ug/kg	1.9 U	1.9 U	1.9 U	2.9	0.78 J	1.9 U	1.9 U	1.9 U	1.9 U	0.58 J	1.9 U	1.8 U	1.9 U
Aroclor 1254	ug/kg	1.9 U	1.9 U	1.9 U	1.9 U	1.3 J	0.99 J	1.9 U	0.78 J	1.9	1.9 U	1.2 J	1.6 J	0.51 J
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	1.9 U	1.9 U	1.9 U	1.9 U	1.8 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	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	1.9 U
Aroclor 5460	ug/kg	3.7 UJ	3.7 UJ	3.7 UJ	3.8 J	3.7 UJ	3.7 UJ	3.6 U	3.8 U	3.6 U	3.7 U	3.6 U	3.6 U	3.7 U
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	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	1.9 U
Aroclor 5442	ug/kg	3.7 UJ	3.7 UJ	3.7 UJ	3.7 UJ	3.7 UJ	3.7 UJ	3.6 U	3.8 U	3.6 U	3.7 U	3.6 U	3.6 U	3.7 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	1.9 U	1.9 U	1.9 U	0.57 J	1.8 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	1.9 U	1.9 U	1.9 U	1.9 U	1.8 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	1.9 U	1.9 U	1.9 U	1.9 U	1.8 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	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	1.9 U
Aroclor 5432	ug/kg	3.7 UJ	3.7 UJ	3.7 UJ	3.7 UJ	3.7 UJ	3.7 UJ	3.6 U	3.8 U	3.6 U	3.7 U	3.6 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-5B

	Sample Name	SL-036-SA5B-SB-4.0-5.0	SL-037-SA5B-SB-3.5-4.5	SL-038-SA5B-SS-0.0-0.5	SL-039-SA5B-SS-0.0-0.5	SL-039-SA5B-SB-4.0-5.0	SL-039-SA5B-SB-9.0-10.0	SL-040-SA5B-SB-1.5-2.5	SL-040-SA5B-SB-9.0-10.0	SL-041-SA5B-SB-1.5-2.5	SL-041-SA5B-SB-8.0-9.0	SL-042-SA5B-SB-2.5-3.5	SL-042-SA5B-SB-8.0-9.0	SL-043-SA5B-SB-2.5-3.5
	Sample Date	01/20/2011	01/20/2011	12/08/2010	12/08/2010	01/17/2011	01/17/2011	12/16/2010	12/16/2010	12/16/2010	12/16/2010	12/16/2010	12/16/2010	12/16/2010
	Lab SDG	DX042	DX042	DX015	DX015	DX040	DX040	DX027	DX027	DX027	DX027	DX027	DX027	DX027
	Start Depth	4	3.5	0	0	4	9	1.5	9	1.5	8	2.5	8	2.5
	End Depth	5	4.5	0.5	0.5	5	10	2.5	10	2.5	9	3.5	9	3.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
2,3,7,8-TCDD	ng/kg	1.11 U	1.12 U	0.0293 J	1.09 U	1.11 U	1.18 U	1.12 U	1.18 U	1.19 U	1.11 U	1.12 U	1.13 U	1.11 U
1,2,3,7,8,9-HxCDD	ng/kg	0.604 J	0.365 J	5.48 U	5.46 U	0.316 J	5.91 U	5.58 U	0.363 J	5.95 U	5.54 U	5.58 U	5.63 U	5.54 U
OCDD	ng/kg	339	342	98.6	130	4.67 J	11.8 U	6.26 J	18.9	11.9 U	44.8	22.6	5.22 J	11.3
1,2,3,4,6,7,8-HpCDD	ng/kg	40.1	19.7	9.15	9.69	5.56 U	5.91 U	5.58 U	2.54 J	5.95 U	4.35 J	2.11 J	5.63 U	1.92 J
OCDF	ng/kg	6.48 J	5.98 J	11 U	10.9 U	11.1 U	11.8 U	11.2 U	11.8 U	11.9 U	1.52 J	11.2 U	11.3 U	1.58 J
1,2,3,4,7,8-HxCDD	ng/kg	5.53 U	5.61 U	5.48 U	5.46 U	5.56 U	5.91 U	5.58 U	5.9 U	5.95 U	5.54 U	5.58 U	5.63 U	5.54 U
1,2,3,7,8-PeCDD	ng/kg	5.53 U	5.61 U	5.48 U	5.46 U	5.56 U	5.91 U	5.58 U	5.9 U	5.95 U	5.54 U	5.58 U	5.63 U	5.54 U
2,3,7,8-TCDF	ng/kg	1.11 U	0.0597 J	1.1 U	1.09 U	0.0361 J	0.0473 J	1.12 U	1.18 U	1.19 U	1.11 U	1.12 U	1.13 U	1.11 U
1,2,3,4,7,8,9-HpCDF	ng/kg	0.227 J	5.61 U	5.48 U	5.46 U	5.56 U	5.91 U	5.58 U	5.9 U	5.95 U	5.54 U	5.58 U	5.63 U	5.54 U
2,3,4,7,8-PeCDF	ng/kg	5.53 U	5.61 U	5.48 U	5.46 U	5.56 U	5.91 U	5.58 U	5.9 U	5.95 U	5.54 U	5.58 U	5.63 U	5.54 U
1,2,3,7,8-PeCDF	ng/kg	5.53 U	5.61 U	5.48 U	5.46 U	5.56 U	5.91 U	5.58 U	5.9 U	5.95 U	5.54 U	5.58 U	5.63 U	5.54 U
1,2,3,6,7,8-HxCDF	ng/kg	5.53 U	5.61 U	5.48 U	5.46 U	5.56 U	5.91 U	5.58 U	5.9 U	5.95 U	5.54 U	5.58 U	5.63 U	5.54 U
1,2,3,6,7,8-HxCDD	ng/kg	0.868 J	0.588 J	0.419 J	0.368 J	0.217 J	5.91 U	5.58 U	0.359 J	5.95 U	0.34 J	0.261 J	0.235 J	5.54 U
2,3,4,6,7,8-HxCDF	ng/kg	5.53 U	5.61 U	5.48 U	5.46 U	5.56 U	5.91 U	5.58 U	5.9 U	5.95 U	5.54 U	5.58 U	5.63 U	5.54 U
1,2,3,4,6,7,8-HpCDF	ng/kg	2.37 J	1.61 J	5.48 U	5.46 U	5.56 U	5.91 U	5.58 U	5.9 U	5.95 U	5.54 U	5.58 U	5.63 U	5.54 U
1,2,3,4,7,8-HxCDF	ng/kg	5.53 U	5.61 U	5.48 U	5.46 U	5.56 U	5.91 U	5.58 U	5.9 U	5.95 U	5.54 U	5.58 U	5.63 U	5.54 U
1,2,3,7,8,9-HxCDF	ng/kg	5.53 U	5.61 U	5.48 U	5.46 U	5.56 U	5.91 U	5.58 U	5.9 U	5.95 U	5.54 U	5.58 U	5.63 U	5.54 U
Aroclor 1260	ug/kg	1.9 U	1.9 U	0.52 J	1.9 U	1.9 U	2 U	1.9 U	2 U	2 U	1.9 U	0.89 J	1.9 U	1.9 U
Aroclor 1254	ug/kg	1.7 J	0.59 J	0.62 J	1.9 U	1.9 U	2 U	1.9 U	2 U	2 U	1.9 U	1.9 U	1.9 U	1.6 J
Aroclor 1268	ug/kg	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	2 U	1.9 U	2 U	2 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	2 U	1.9 U	2 U	2 U	1.9 U	1.9 U	1.9 U	1.9 U
Aroclor 5460	ug/kg	3.7 U	3.7 U	1.5 J	1.8 J	3.7 UJ	3.9 UJ	3.7 UJ	3.9 UJ	3.9 UJ	3.7 UJ	3.7 UJ	3.7 UJ	3.7 UJ
Aroclor 1232	ug/kg	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	2 U	1.9 U	2 U	2 U	1.9 U	1.9 U	1.9 U	1.9 U
Aroclor 5442	ug/kg	3.7 U	3.7 U	3.6 U	3.6 U	3.7 UJ	3.9 UJ	3.7 UJ	3.9 UJ	3.9 UJ	3.7 UJ	3.7 UJ	3.7 UJ	3.7 UJ
Aroclor 1248	ug/kg	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	2 U	1.9 U	2 U	2 U	1.9 U	1.9 U	1.9 U	1.7 J
Aroclor 1016	ug/kg	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	2 U	1.9 U	2 U	2 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	2 U	1.9 U	2 U	2 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	2 U	1.9 U	2 U	2 U	1.9 U	1.9 U	1.9 U	1.9 U
Aroclor 5432	ug/kg	3.7 U	3.7 U	3.6 U	3.6 U	3.7 UJ	3.9 UJ	3.7 UJ	3.9 UJ	3.9 UJ	3.7 UJ	3.7 UJ	3.7 UJ	3.7 UJ

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-5B

	Sample Name	SL-044-SA5B-SB-4.0-5.0	SL-044-SA5B-SB-7.0-8.0	SL-045-SA5B-SB-3.0-4.0	SL-046-SA5B-SB-4.0-5.0	SL-046-SA5B-SB-9.0-10.0	SL-047-SA5B-SB-4.0-5.0	SL-048-SA5B-SS-0.0-0.5	SL-048-SA5B-SB-4.0-5.0	SL-048-SA5B-SB-9.0-10.0	SL-049-SA5B-SS-0.0-0.5	SL-049-SA5B-SB-4.0-5.0	SL-049-SA5B-SB-9.0-10.0	SL-050-SA5B-SB-3.0-4.0
	Sample Date	12/20/2010	12/20/2010	12/20/2010	12/21/2010	12/21/2010	12/21/2010	12/10/2010	01/19/2011	01/19/2011	02/11/2011	01/19/2011	01/19/2011	01/06/2011
	Lab SDG	DX031	DX031	DX031	DX032	DX032	DX032	DX018	DX040	DX040	DX050	DX041	DX041	DX036
	Start Depth	4	7	3	4	9	4	0	4	9	0	4	9	3
	End Depth	5	8	4	5	10	5	0.5	5	10	0.5	5	10	4
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
2,3,7,8-TCDD	ng/kg	0.03 J	0.0953 J	1.11 U	1.09 U	1.13 U	1.11 U	0.0497 J	1.12 U	1.08 U	0.0142 J	1.09 U	1.04 U	1.09 U
1,2,3,7,8,9-HxCDD	ng/kg	5.66 UJ	5.68 U	5.53 U	0.184 J	0.349 J	0.259 J	0.573 J	5.62 U	0.223 J	0.0338 J	5.45 U	5.18 U	5.47 U
OCDD	ng/kg	11.3 UJ	11.4 U	32.4	87.9 J	11.9	40.9	492	124	10.8 U	5.15 J	58.9	39.6	10.9 U
1,2,3,4,6,7,8-HpCDD	ng/kg	5.66 UJ	5.68 U	4.52 J	12.5 J	1.03 J	2.63 J	30.7	6.29	5.39 U	5.14 U	3.95 J	2.36 J	5.47 U
OCDF	ng/kg	11.3 UJ	11.4 U	1.87 J	2.61 J	11.3 U	11.1 U	5.21 J	11.2 U	10.8 U	10.3 U	10.9 U	10.4 U	10.9 U
1,2,3,4,7,8-HxCDD	ng/kg	0.048 J	0.0878 J	0.0527 J	5.44 UJ	5.66 U	0.111 J	0.218 J	5.62 U	5.39 U	5.14 U	5.45 U	5.18 U	5.47 U
1,2,3,7,8-PeCDD	ng/kg	5.66 UJ	0.164 J	5.53 U	5.44 U	5.66 U	5.53 U	5.64 U	5.62 U	5.39 U	0.0228 J	5.45 U	5.18 U	0.0836 J
2,3,7,8-TCDF	ng/kg	1.13 UJ	1.14 U	0.513 J	1.09 U	1.13 U	1.11 U	0.0618 J	0.0313 J	0.0446 J	1.03 U	1.09 U	1.04 U	1.09 U
1,2,3,4,7,8,9-HpCDF	ng/kg	5.66 U	5.68 U	5.53 U	5.44 U	5.66 U	5.53 U	5.64 U	5.62 U	5.39 U	5.14 U	5.45 U	5.18 U	5.47 U
2,3,4,7,8-PeCDF	ng/kg	5.66 UJ	5.68 U	0.571 J	5.44 UJ	5.66 U	5.53 U	5.64 U	5.62 U	5.39 U	5.14 U	5.45 U	5.18 U	5.47 U
1,2,3,7,8-PeCDF	ng/kg	5.66 UJ	5.68 U	0.29 J	5.44 U	0.149 J	5.53 U	5.64 U	5.62 U	5.39 U	5.14 U	5.45 U	5.18 U	5.47 U
1,2,3,6,7,8-HxCDF	ng/kg	5.66 UJ	5.68 U	5.53 U	5.44 U	0.166 J	5.53 U	5.64 U	5.62 U	5.39 U	5.14 U	5.45 U	5.18 U	5.47 U
1,2,3,6,7,8-HxCDD	ng/kg	0.0344 J	0.0955 J	0.139 J	0.347 J	0.23 J	0.445 J	0.67 J	5.62 U	0.137 J	5.14 U	5.45 U	5.18 U	0.0801 J
2,3,4,6,7,8-HxCDF	ng/kg	5.66 UJ	5.68 U	5.53 U	5.44 U	5.66 U	5.53 U	5.64 U	5.62 U	5.39 U	5.14 U	5.45 U	5.18 U	5.47 U
1,2,3,4,6,7,8-HpCDF	ng/kg	5.66 UJ	5.68 U	5.53 U	0.896 J	0.392 J	0.61 J	3.28 J	5.62 U	5.39 U	5.14 U	5.45 U	5.18 U	5.47 U
1,2,3,4,7,8-HxCDF	ng/kg	5.66 UJ	5.68 U	5.53 U	5.44 U	5.66 U	5.53 U	5.64 U	5.62 U	5.39 U	5.14 U	5.45 U	5.18 U	5.47 U
1,2,3,7,8,9-HxCDF	ng/kg	5.66 UJ	5.68 U	5.53 U	5.44 UJ	0.358 J	0.176 J	5.64 U	5.62 U	5.39 U	5.14 U	5.45 U	5.18 U	5.47 U
Aroclor 1260	ug/kg	1.9 UJ	1.9 U	1.9 U	1.8 UJ	1.9 U	0.59 J	1.6 J	1.9 U	1.8 U	1.7 U	2.4 J	2.1 J	1.9 U
Aroclor 1254	ug/kg	1.9 UJ	1.9 U	1.9 U	0.71 J	1.9 U	1.4 J	1.9 U	1.9 U	1.8 U	1.7 U	1.9 U	1.8 U	1.9 U
Aroclor 1268	ug/kg	1.9 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	1.7 U	1.9 U	1.8 U	1.9 U
Aroclor 1221	ug/kg	1.9 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	1.7 U	1.9 U	1.8 U	1.9 U
Aroclor 5460	ug/kg	3.7 UJ	3.8 UJ	3.7 UJ	3.6 U	3.7 U	3.7 U	3.7 U	3.7 UJ	3.6 UJ	3.4 UJ	3.6 UJ	1.9 J	3.6 UJ
Aroclor 1232	ug/kg	1.9 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	1.7 U	1.9 U	1.8 U	1.9 U
Aroclor 5442	ug/kg	3.7 UJ	3.8 UJ	3.7 UJ	3.6 UJ	3.7 UJ	3.7 UJ	3.7 U	3.7 UJ	3.6 UJ	3.4 UJ	3.6 UJ	3.4 UJ	3.6 UJ
Aroclor 1248	ug/kg	1.9 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	1.7 U	1.9 U	1.8 U	1.9 U
Aroclor 1016	ug/kg	1.9 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	1.7 U	1.9 U	1.8 U	1.9 U
Aroclor 1262	ug/kg	1.9 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	1.7 U	1.9 U	1.8 U	1.9 U
Aroclor 1242	ug/kg	1.9 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	1.7 U	1.9 U	1.8 U	1.9 U
Aroclor 5432	ug/kg	3.7 UJ	3.8 UJ	3.7 UJ	3.6 U	3.7 U	3.7 U	3.7 U	3.7 UJ	3.6 UJ	3.4 UJ	3.6 UJ	3.4 UJ	3.6 UJ

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-5B

		Sample Name	SL-051-SA5B-SS-0.0-0.5	SL-051-SA5B-SB-3.0-4.0	SL-053-SA5B-SB-1.8-2.8	SL-054-SA5B-SS-0.0-0.5	SL-054-SA5B-SB-3.0-4.0	SL-055-SA5B-SB-4.0-5.0	SL-055-SA5B-SB-8.5-9.5	SL-056-SA5B-SB-4.0-5.0	SL-056-SA5B-SB-9.0-10.0	SL-057-SA5B-SS-0.0-0.5	SL-058-SA5B-SB-4.0-5.0	SL-059-SA5B-SS-0.0-0.5	SL-059-SA5B-SB-4.0-5.0
		Sample Date	12/10/2010	01/06/2011	01/10/2011	12/14/2010	01/10/2011	01/07/2011	01/07/2011	01/07/2011	01/07/2011	12/10/2010	01/06/2011	12/10/2010	01/07/2011
		Lab SDG	DX018	DX036	DX037	DX022	DX037	DX036	DX036	DX036	DX036	DX019	DX036	DX018	DX036
		Start Depth	0	3	1.8	0	3	4	8.5	4	9	0	4	0	4
		End Depth	0.5	4	2.8	0.5	4	5	9.5	5	10	0.5	5	0.5	5
Chemical Name	Unit		Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
2,3,7,8-TCDD	ng/kg		0.0235 J	1.17 U	1.12 U	1.07 U	1.15 U	1.08 U	1.1 U	1.08 U	1.09 U	1.16 U	1.11 U	1.15 U	0.0647 J
1,2,3,7,8,9-HxCDD	ng/kg		0.463 J	5.84 U	0.467 J	1.98 J	0.378 J	0.325 J	0.26 J	0.381 J	0.279 J	0.207 J	5.54 U	5.74 U	0.471 J
OCDD	ng/kg		495	5.79 J	368	1600	270	376	644	324	747	86	29.8	55.8	385
1,2,3,4,6,7,8-HpCDD	ng/kg		38.4	5.84 U	40.7	143	28.5	40.1	39.6	34.7	49.3	6.84	2.76 J	4.75 J	41.3
OCDF	ng/kg		11 J	11.7 U	7.2 J	38	4.75 J	10.9	13.3	8.62 J	21.2	2.48 J	11.1 U	11.5 U	7.55 J
1,2,3,4,7,8-HxCDD	ng/kg		0.249 J	5.84 U	0.241 J	1.08 J	0.203 J	0.169 J	0.0955 J	0.211 J	0.17 J	5.79 U	0.0385 J	5.74 U	0.166 J
1,2,3,7,8-PeCDD	ng/kg		5.55 U	0.0393 J	0.114 J	5.33 U	0.0717 J	0.0872 J	0.0896 J	0.169 J	0.0764 J	5.79 U	0.0407 J	5.74 U	0.211 J
2,3,7,8-TCDF	ng/kg		0.0294 J	0.0729 J	1.12 U	1.07 U	1.15 U	1.08 U	0.0756 J	1.08 U	0.0801 J	1.16 U	1.11 U	0.0307 J	0.0564 J
1,2,3,4,7,8,9-HpCDF	ng/kg		5.55 U	5.84 U	0.32 J	5.33 U	0.239 J	0.471 J	0.387 J	5.42 U	0.573 J	5.79 U	5.54 U	5.74 U	0.417 J
2,3,4,7,8-PeCDF	ng/kg		5.55 U	5.84 U	5.62 U	5.33 U	5.76 U	5.39 U	5.48 U	5.42 U	5.46 U	5.79 U	5.54 U	5.74 U	5.37 U
1,2,3,7,8-PeCDF	ng/kg		0.204 J	5.84 U	5.62 U	5.33 U	5.76 U	5.39 U	5.48 U	5.42 U	5.46 U	5.79 U	5.54 U	5.74 U	0.214 J
1,2,3,6,7,8-HxCDF	ng/kg		0.415 J	5.84 U	5.62 U	5.33 U	5.76 U	5.39 U	5.48 U	5.42 U	5.46 U	5.79 U	5.54 U	5.74 U	5.37 U
1,2,3,6,7,8-HxCDD	ng/kg		1.09 J	0.0395 J	1.23 J	4.69 J	0.902 J	1.18 J	0.808 J	1.1 J	1.01 J	0.23 J	0.138 J	5.74 U	1.12 J
2,3,4,6,7,8-HxCDF	ng/kg		5.55 U	5.84 U	5.62 U	5.33 U	5.76 U	5.39 U	5.48 U	5.42 U	5.46 U	5.79 U	5.54 U	5.74 U	5.37 U
1,2,3,4,6,7,8-HpCDF	ng/kg		5.39 J	5.84 U	2.86 J	13.7	1.99 J	4.15 J	3.06 J	3.34 J	5.14 J	5.79 U	5.54 U	5.74 U	2.98 J
1,2,3,4,7,8-HxCDF	ng/kg		5.55 U	5.84 U	5.62 U	5.33 U	5.76 U	5.39 U	5.48 U	5.42 U	5.46 U	5.79 U	5.54 U	5.74 U	5.37 U
1,2,3,7,8,9-HxCDF	ng/kg		5.55 U	5.84 U	5.62 U	5.33 U	5.76 U	5.39 U	5.48 U	5.42 U	5.46 U	5.79 U	5.54 U	5.74 U	5.37 U
Aroclor 1260	ug/kg		7.7 J	2 U	0.57 J	1.5 J	2 U	1.6 J	2.2	1.8 U	3	0.64 J	1.9 U	0.9 J	1.8 U
Aroclor 1254	ug/kg		12 J	2 U	1.9 U	1.8 U	0.68 J	12	8.7	7.4	7.9	2 U	1.9 U	2 U	15 J
Aroclor 1268	ug/kg		9.4 U	2 U	1.9 U	1.8 U	2 U	1.8 U	1.9 U	1.8 U	1.9 U	2 U	1.9 U	2 U	1.8 U
Aroclor 1221	ug/kg		9.4 U	2 U	1.9 U	1.8 U	2 U	1.8 U	1.9 U	1.8 U	1.9 U	2 U	1.9 U	2 U	1.8 U
Aroclor 5460	ug/kg		18 U	3.9 UJ	3.7 UJ	6.4 J	3.8 UJ	1.4 J	1.7 J	1.6 J	3.6 UJ	3.8 U	3.7 UJ	3.8 U	1.6 J
Aroclor 1232	ug/kg		9.4 U	2 U	1.9 U	1.8 U	2 U	1.8 U	1.9 U	1.8 U	1.9 U	2 U	1.9 U	2 U	1.8 U
Aroclor 5442	ug/kg		18 U	3.9 UJ	3.7 UJ	3.5 UJ	3.8 UJ	3.6 UJ	3.6 UJ	3.6 UJ	3.6 UJ	3.8 U	3.7 UJ	3.8 U	3.5 UJ
Aroclor 1248	ug/kg		23 J	2 U	1.9 U	1.8 U	2 U	17	41	16	40	2 U	1.9 U	2	1.8 U
Aroclor 1016	ug/kg		9.4 U	2 U	1.9 U	1.8 U	2 U	1.8 U	1.9 U	1.8 U	1.9 U	2 U	1.9 U	2 U	1.8 U
Aroclor 1262	ug/kg		9.4 U	2 U	1.9 U	1.8 U	2 U	1.8 U	1.9 U	1.8 U	1.9 U	2 U	1.9 U	2 U	1.8 U
Aroclor 1242	ug/kg		9.4 U	2 U	1.9 U	1.8 U	2 U	1.8 U	1.9 U	1.8 U	1.9 U	2 U	1.9 U	2 U	1.8 U
Aroclor 5432	ug/kg		18 U	3.9 UJ	3.7 UJ	3.5 UJ	3.8 UJ	3.6 UJ	3.6 UJ	3.6 UJ	3.6 UJ	3.8 U	3.7 UJ	3.8 U	3.5 UJ

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-5B

	Sample Name	SL-059-SA5B-SB-8.5-9.5	SL-060-SA5B-SB-4.0-5.0	SL-060-SA5B-SB-9.0-10.0	SL-061-SA5B-SS-0.0-0.5	SL-061-SA5B-SB-3.5-4.5	SL-062-SA5B-SS-0.0-0.5	SL-062-SA5B-SB-4.0-5.0	SL-062-SA5B-SB-9.0-10.0	SL-063-SA5B-SB-3.0-4.0	SL-064-SA5B-SS-0.0-0.5	SL-065-SA5B-SS-0.0-0.5	SL-065-SA5B-SB-4.0-5.0	SL-065-SA5B-SB-9.0-10.0
	Sample Date	01/07/2011	01/07/2011	01/07/2011	12/10/2010	01/07/2011	12/10/2010	01/07/2011	01/07/2011	01/06/2011	12/10/2010	12/10/2010	01/05/2011	01/05/2011
	Lab SDG	DX036	DX036	DX036	DX018	DX036	DX018	DX036	DX036	DX036	DX018	DX018	DX035	DX035
	Start Depth	8.5	4	9	0	3.5	0	4	9	3	0	0	4	9
	End Depth	9.5	5	10	0.5	4.5	0.5	5	10	4	0.5	0.5	5	10
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
2,3,7,8-TCDD	ng/kg	0.0516 J	1.11 U	1.08 U	1.15 U	1.1 U	1.17 U	1.1 U	1.08 U	1.08 U	1.12 U	0.0224 J	1.11 U	1.1 U
1,2,3,7,8,9-HxCDD	ng/kg	0.747 J	0.149 J	0.503 J	0.279 J	0.199 J	5.84 U	0.23 J	0.275 J	5.42 U	0.354 J	0.538 J	0.12 J	0.215 J
OCDD	ng/kg	607	139	1290	231	293	38.5	253	1070	25.4	241	90.5	88.3	135
1,2,3,4,6,7,8-HpCDD	ng/kg	63.2	13.7	86.4	17.8	27.3	3.55 J	26.3	65.8	5.42 U	20.8	10.3	9.94	15
OCDF	ng/kg	13.5	2.71 J	21.5	6.33 J	7.04 J	11.7 U	6.08 J	19.9	10.8 U	7.3 J	3.34 J	2.3 J	3.77 J
1,2,3,4,7,8-HxCDD	ng/kg	0.38 J	0.0714 J	0.261 J	5.73 U	5.51 U	5.84 U	0.101 J	0.108 J	5.42 U	5.6 U	5.52 U	0.101 J	0.0877 J
1,2,3,7,8-PeCDD	ng/kg	0.315 J	5.56 U	0.0967 J	5.73 U	5.51 U	5.84 U	0.0529 J	0.0774 J	0.0536 J	5.6 U	5.52 U	5.54 U	5.5 U
2,3,7,8-TCDF	ng/kg	0.0559 J	1.11 U	0.0888 J	0.0411 J	1.1 U	0.0411 J	1.1 U	1.08 U	1.08 U	0.0398 J	0.162 J	1.11 U	1.1 U
1,2,3,4,7,8,9-HpCDF	ng/kg	0.615 J	0.466 J	0.755 J	5.73 U	5.51 U	5.84 U	5.52 U	0.508 J	5.42 U	5.6 U	5.52 U	5.54 U	5.5 U
2,3,4,7,8-PeCDF	ng/kg	5.47 U	5.56 U	5.39 U	5.73 U	5.51 U	5.84 U	5.52 U	5.42 U	5.42 U	5.6 U	1.28 J	5.54 U	5.5 U
1,2,3,7,8-PeCDF	ng/kg	0.201 J	5.56 U	5.39 U	5.73 U	5.51 U	5.84 U	5.52 U	5.42 U	5.42 U	0.181 J	0.45 J	0.137 J	5.5 U
1,2,3,6,7,8-HxCDF	ng/kg	0.34 J	5.56 U	5.39 U	5.73 U	5.51 U	5.84 U	5.52 U	5.42 U	5.42 U	5.6 U	0.639 J	5.54 U	5.5 U
1,2,3,6,7,8-HxCDD	ng/kg	2.1 J	0.409 J	1.99 J	0.522 J	0.55 J	5.84 U	0.657 J	1.24 J	5.42 U	0.642 J	1.05 J	0.27 J	0.416 J
2,3,4,6,7,8-HxCDF	ng/kg	5.47 U	5.56 U	5.39 U	5.73 U	5.51 U	5.84 U	5.52 U	5.42 U	5.42 U	5.6 U	5.52 U	5.54 U	5.5 U
1,2,3,4,6,7,8-HpCDF	ng/kg	5.62	5.56 U	6.88	5.73 U	2.47 J	5.84 U	2.4 J	5.35 J	5.42 U	2.99 J	5.52 U	0.883 J	1.25 J
1,2,3,4,7,8-HxCDF	ng/kg	5.47 U	5.56 U	5.39 U	5.73 U	5.51 U	5.84 U	5.52 U	5.42 U	5.42 U	5.6 U	1.02 J	5.54 U	5.5 U
1,2,3,7,8,9-HxCDF	ng/kg	5.47 U	5.56 U	5.39 U	5.73 U	5.51 U	5.84 U	5.52 U	5.42 U	5.42 U	5.6 U	5.52 U	5.54 U	5.5 U
Aroclor 1260	ug/kg	2.1	1.9 U	1.3 J	3.3	0.8 J	2 U	0.65 J	1.5 J	1.8 U	5.7 J	3.1 J	0.62 J	1.1 J
Aroclor 1254	ug/kg	12	1.1 J	8.6	5.5	2.7	2 U	2.2 J	3.8	1.8 U	7.1 J	10	1.2 J	3.9
Aroclor 1268	ug/kg	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	2 U	1.9 U	1.8 U	1.8 U	1.9 U	3.8 U	1.9 U	1.9 U
Aroclor 1221	ug/kg	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	2 U	1.9 U	1.8 U	1.8 U	1.9 U	3.8 U	1.9 U	1.9 U
Aroclor 5460	ug/kg	6.9 J	3.7 UJ	1.5 J	3.8 U	3.6 UJ	3.9 U	3.6 UJ	3.6 UJ	3.6 UJ	2.6 J	7.3 U	3.7 U	1.4 J
Aroclor 1232	ug/kg	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	2 U	1.9 U	1.8 U	1.8 U	1.9 U	3.8 U	1.9 U	1.9 U
Aroclor 5442	ug/kg	3.6 UJ	3.7 UJ	3.6 UJ	3.8 U	3.6 UJ	3.9 U	3.6 UJ	3.6 UJ	3.6 UJ	3.7 U	7.3 U	3.7 U	3.6 U
Aroclor 1248	ug/kg	29	3.1	37	12	2.8	2 U	3.3 J	14	1.8 U	1.9 U	15	1.9 U	1.9 U
Aroclor 1016	ug/kg	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	2 U	1.9 U	1.8 U	1.8 U	1.9 U	3.8 U	1.9 U	1.9 U
Aroclor 1262	ug/kg	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	2 U	1.9 U	1.8 U	1.8 U	1.9 U	3.8 U	1.9 U	1.9 U
Aroclor 1242	ug/kg	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	2 U	1.9 U	1.8 U	1.8 U	1.9 U	3.8 U	1.9 U	1.9 U
Aroclor 5432	ug/kg	3.6 UJ	3.7 UJ	3.6 UJ	3.8 U	3.6 UJ	3.9 U	3.6 UJ	3.6 UJ	3.6 UJ	3.7 U	7.3 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-5B

	Sample Name	SL-066-SA5B-SB-3.0-4.0	SL-067-SA5B-SS-0.0-0.5	SL-067-SA5B-SB-3.5-4.5	SL-068-SA5B-SB-3.0-4.0	SL-069-SA5B-SB-3.0-4.0	SL-070-SA5B-SS-0.0-0.5	SL-070-SA5B-SB-2.5-3.5	SL-071-SA5B-SS-0.0-0.5	SL-071-SA5B-SB-2.0-3.0	SL-072-SA5B-SS-0.0-0.5	SL-072-SA5B-SB-4.0-5.0	SL-073-SA5B-SS-0.0-0.5	SL-073-SA5B-SB-4.0-5.0
	Sample Date	01/06/2011	12/10/2010	01/05/2011	01/05/2011	01/05/2011	12/10/2010	01/05/2011	12/13/2010	01/12/2011	12/13/2010	01/12/2011	12/13/2010	01/13/2011
	Lab SDG	DX036	DX018	DX035	DX035	DX035	DX018	DX035	DX020	DX039	DX020	DX039	DX020	DX037
	Start Depth	3	0	3.5	3	3	0	2.5	0	2	0	4	0	4
	End Depth	4	0.5	4.5	4	4	0.5	3.5	0.5	3	0.5	5	0.5	5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
2,3,7,8-TCDD	ng/kg	1.1 U	0.116 J	0.0417 J	1.14 U	1.08 U	0.0425 J	1.07 U	0.581 J	1.12 U	1.06 U	0.0497 J	0.0983 J	1.14 U
1,2,3,7,8,9-HxCDD	ng/kg	5.51 UJ	3.76 J	0.0642 J	0.076 J	0.0747 J	0.625 J	0.0359 J	30.6	0.0363 J	4.17 J	0.0931 J	2 J	5.71 U
OCDD	ng/kg	11 UJ	1980	11 U	11.4 U	10.8 U	273	6.38 J	7170 J	11.2 U	1880	11.3 U	630	11.4 U
1,2,3,4,6,7,8-HpCDD	ng/kg	5.51 U	152	5.49 U	5.68 U	5.38 U	22.9	5.36 U	869	5.61 U	182	5.66 U	58.9	5.71 U
OCDF	ng/kg	11 UJ	51.3	11 U	11.4 U	10.8 U	6.75 J	10.7 U	362 J	11.2 U	79.9	11.3 U	18.6	11.4 U
1,2,3,4,7,8-HxCDD	ng/kg	5.51 UJ	2.12 J	5.49 U	5.68 U	5.38 U	0.27 J	0.0323 J	14	5.61 U	2.03 J	5.66 U	0.707 J	5.71 U
1,2,3,7,8-PeCDD	ng/kg	5.51 UJ	1.63 J	5.49 U	5.68 U	5.38 U	5.89 U	5.36 U	5.45	5.61 U	0.86 J	5.66 U	5.25 U	0.0353 J
2,3,7,8-TCDF	ng/kg	1.1 U	1.24	1.1 U	1.14 U	1.08 U	0.0689 J	1.07 U	0.449 J	1.12 U	0.731 J	0.0446 J	0.676 J	0.0242 J
1,2,3,4,7,8,9-HpCDF	ng/kg	5.51 UJ	4.1 J	5.49 U	5.68 U	5.38 U	5.89 U	5.36 U	13.6	5.61 U	2.95 J	5.66 U	0.908 J	5.71 U
2,3,4,7,8-PeCDF	ng/kg	5.51 UJ	1.63 J	5.49 U	5.68 U	5.38 U	5.89 U	5.36 U	1.66 J	5.61 U	1.63 J	5.66 U	0.878 J	5.71 U
1,2,3,7,8-PeCDF	ng/kg	5.51 UJ	0.898 J	5.49 U	5.68 U	5.38 U	0.214 J	5.36 U	1.12 J	0.0259 J	1.51 J	0.0383 J	1.36 J	5.71 U
1,2,3,6,7,8-HxCDF	ng/kg	5.51 UJ	2.45 J	5.49 U	5.68 U	5.38 U	0.415 J	5.36 U	8.83	5.61 U	1.63 J	5.66 U	1 J	5.71 U
1,2,3,6,7,8-HxCDD	ng/kg	0.0899 J	7.17	0.0315 J	0.0626 J	0.0459 J	0.985 J	0.057 J	27.7	5.61 U	5.9	5.66 U	2.21 J	5.71 U
2,3,4,6,7,8-HxCDF	ng/kg	5.51 UJ	2.23 J	5.49 U	5.68 U	5.38 U	5.89 U	5.36 U	12.8	5.61 U	1.95 J	5.66 U	0.833 J	5.71 U
1,2,3,4,6,7,8-HpCDF	ng/kg	5.51 U	25.9	5.49 U	5.68 U	5.38 U	3.82 J	5.36 U	169 J	5.61 U	30.1	5.66 U	8.35	5.71 U
1,2,3,4,7,8-HxCDF	ng/kg	5.51 UJ	2.67 J	5.49 U	5.68 U	5.38 U	0.567 J	5.36 U	7.5	5.61 U	2.36 J	5.66 U	1.56 J	5.71 U
1,2,3,7,8,9-HxCDF	ng/kg	5.51 UJ	0.784 J	5.49 U	5.68 U	5.38 U	5.89 U	5.36 U	1.09 J	5.61 U	0.786 J	5.66 U	0.708 J	5.71 U
Aroclor 1260	ug/kg	1.9 U	0.73 J	1.9 U	1.9 U	1.8 U	9.6	1.8 U	8.5 J	1.9 U	22 J	1.9 U	15	1.9 U
Aroclor 1254	ug/kg	1.9 U	4.6	1.9 U	1.9 U	1.8 U	15	1.8 U	13 J	1.9 U	6.8 J	1.9 U	6.8	1.9 U
Aroclor 1268	ug/kg	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U	4 U	1.8 U	1.8 U	1.9 U	3.6 U	1.9 U	1.8 U	1.9 U
Aroclor 1221	ug/kg	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U	4 U	1.8 U	1.8 U	1.9 U	3.6 U	1.9 U	1.8 U	1.9 U
Aroclor 5460	ug/kg	3.6 UJ	3.6 U	3.6 U	3.8 U	3.5 U	7.8 U	3.5 U	4.3 J	3.7 U	27 J	3.7 U	5.6 J	3.8 UJ
Aroclor 1232	ug/kg	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U	4 U	1.8 U	1.8 U	1.9 U	3.6 U	1.9 U	1.8 U	1.9 U
Aroclor 5442	ug/kg	3.6 UJ	3.6 U	3.6 U	3.8 U	3.5 U	7.8 U	3.5 U	3.5 UJ	3.7 UJ	7 UJ	3.7 UJ	3.5 UJ	3.8 UJ
Aroclor 1248	ug/kg	1.9 U	10	1.9 U	1.9 U	1.8 U	15	1.8 U	6.7 J	1.9 U	3.6 U	1.9 U	3	1.9 U
Aroclor 1016	ug/kg	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U	4 U	1.8 U	1.8 U	1.9 U	3.6 U	1.9 U	1.8 U	1.9 U
Aroclor 1262	ug/kg	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U	4 U	1.8 U	1.8 U	1.9 U	3.6 U	1.9 U	1.8 U	1.9 U
Aroclor 1242	ug/kg	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U	4 U	1.8 U	1.8 U	1.9 U	3.6 U	1.9 U	1.8 U	1.9 U
Aroclor 5432	ug/kg	3.6 UJ	3.6 U	3.6 U	3.8 U	3.5 U	7.8 U	3.5 U	3.5 UJ	3.7 U	7 UJ	3.7 U	3.5 UJ	3.8 UJ

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-5B

	Sample Name	SL-074-SA5B-SS-0.0-0.5	SL-074-SA5B-SB-4.0-5.0	SL-074-SA5B-SB-7.0-8.0	SL-075-SA5B-SS-0.0-0.5	SL-076-SA5B-SS-0.0-0.5	SL-077-SA5B-SS-0.0-0.5	SL-078-SA5B-SS-0.0-0.5	SL-078-SA5B-SB-4.0-5.0	SL-081-SA5B-SB-2.5-3.5	SL-081-SA5B-SB-6.0-7.0	SL-082-SA5B-SB-2.25-3.25	SL-082-SA5B-SB-7.0-8.0	SL-083-SA5B-SS-0.0-0.5
	Sample Date	12/13/2010	01/13/2011	01/13/2011	12/13/2010	12/13/2010	12/13/2010	12/13/2010	01/17/2011	01/14/2011	01/14/2011	01/17/2011	01/17/2011	12/13/2010
	Lab SDG	DX020	DX037	DX037	DX021	DX020	DX021	DX020	DX040	DX039	DX039	DX040	DX040	DX020
	Start Depth	0	4	7	0	0	0	0	4	2.5	6	2.25	7	0
	End Depth	0.5	5	8	0.5	0.5	0.5	0.5	5	3.5	7	3.25	8	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
2,3,7,8-TCDD	ng/kg	0.132 J	1.16 U	1.18 U	0.0679	1.06 U	0.0969	0.134 J	1.18 U	0.0122 J	1.14 U	1.16 U	1.15 U	1.08 U
1,2,3,7,8,9-HxCDD	ng/kg	2.32 J	0.128 J	5.9 U	2.31	0.899 J	0.884	4.7 J	0.0894 J	0.771 J	0.0835 J	1.15 J	0.0923 J	8.13
OCDD	ng/kg	935	11.6 U	11.8 U	502	157	179	2640	15.4	11.2 U	11.4 U	5.91 J	10.4 J	4950 J
1,2,3,4,6,7,8-HpCDD	ng/kg	78.1	5.8 U	5.9 U	54.7	19.9	21.8	270	1.6 J	5.62 U	5.71 U	5.81 U	1.49 J	307
OCDF	ng/kg	28.1	11.6 U	11.8 U	25.3	7.92 J	7.92	60.6	11.8 U	11.2 U	11.4 U	11.6 U	11.5 U	294
1,2,3,4,7,8-HxCDD	ng/kg	0.904 J	5.8 U	5.9 U	0.909 J	0.447 J	0.443 J	2.52 J	5.91 U	5.62 U	5.71 U	5.81 U	5.77 U	3.49 J
1,2,3,7,8-PeCDD	ng/kg	5.45 U	5.8 U	5.9 U	0.518 J	0.293 J	0.29 J	5.51 U	5.91 U	5.62 U	5.71 U	0.174 J	5.77 U	5.42 U
2,3,7,8-TCDF	ng/kg	0.333 J	1.16 U	1.18 U	0.214 J	0.152 J	0.22 J	0.812 J	1.18 U	0.0616 J	0.0199 J	0.0642 J	0.0611 J	31.2
1,2,3,4,7,8,9-HpCDF	ng/kg	1.25 J	5.8 U	5.9 U	0.847 J	0.468 J	0.478 J	2.45 J	5.91 U	5.62 U	5.71 U	5.81 U	5.77 U	87.1
2,3,4,7,8-PeCDF	ng/kg	0.692 J	5.8 U	5.9 U	0.435 J	0.27 J	0.329 J	1.69 J	5.91 U	5.62 U	5.71 U	5.81 U	5.77 U	274
1,2,3,7,8-PeCDF	ng/kg	0.898 J	5.8 U	5.9 U	0.378 J	0.211 J	0.247 J	1.82 J	5.91 U	0.146 J	0.028 J	0.344 J	5.77 U	35
1,2,3,6,7,8-HxCDF	ng/kg	0.806 J	5.8 U	5.9 U	0.613 J	0.36 J	0.373 J	1.57 J	5.91 U	5.62 U	5.71 U	5.81 U	5.77 U	86.7
1,2,3,6,7,8-HxCDD	ng/kg	2.72 J	5.8 U	5.9 U	2.3 J	0.984 J	0.946 J	9.75	5.91 U	0.572 J	5.71 U	0.891 J	5.77 U	10.9
2,3,4,6,7,8-HxCDF	ng/kg	0.994 J	5.8 U	5.9 U	0.706 J	0.373 J	5.38 U	1.89 J	5.91 U	5.62 U	5.71 U	5.81 U	5.77 U	47.3
1,2,3,4,6,7,8-HpCDF	ng/kg	12.2	5.8 U	5.9 U	9.65 J	3.62 J	3.96 J	26.8	5.91 U	5.62 U	5.71 U	5.81 U	5.77 U	139
1,2,3,4,7,8-HxCDF	ng/kg	0.791 J	5.8 U	5.9 U	0.629	0.35 J	0.378	1.49 J	5.91 U	5.62 U	5.71 U	5.81 U	5.77 U	189
1,2,3,7,8,9-HxCDF	ng/kg	0.465 J	5.8 U	5.9 U	0.467	5.31 U	0.236	1.05 J	5.91 U	0.897 J	5.71 U	1.51 J	5.77 U	44.1
Aroclor 1260	ug/kg	9.9	2 U	2 U	3.5	1.8 U	1.4 J	1.1 J	2 U	1.9 U	1.6 J	2 U	2 U	1800 U
Aroclor 1254	ug/kg	4.8 J	2 U	2 U	5.1	1.8 U	2.4	1.7 J	2 U	1.9 U	8	2 U	0.61 J	2300
Aroclor 1268	ug/kg	9.3 U	2 U	2 U	1.8 U	1.8 U	1.8 U	1.9 U	2 U	1.9 U	1.9 U	2 U	2 U	1800 U
Aroclor 1221	ug/kg	9.3 U	2 U	2 U	1.8 U	1.8 U	1.8 U	1.9 U	2 U	1.9 U	1.9 U	2 U	2 U	1800 U
Aroclor 5460	ug/kg	8.9 J	3.8 UJ	3.9 UJ	2.9 J	3.5 UJ	1.3 J	3.6 UJ	3.9 UJ	3.7 U	3.8 U	3.8 U	3.8 UJ	3600 UJ
Aroclor 1232	ug/kg	9.3 U	2 U	2 U	1.8 U	1.8 U	1.8 U	1.9 U	2 U	1.9 U	1.9 U	2 U	2 U	1800 U
Aroclor 5442	ug/kg	18 UJ	3.8 UJ	3.9 UJ	3.5 U	3.5 UJ	3.6 U	3.6 UJ	3.9 UJ	3.7 U	3.8 U	3.8 U	3.8 UJ	3600 UJ
Aroclor 1248	ug/kg	4.5 J	2 U	2 U	2.6	1.8 U	1.8 U	1.9 U	2.4	1.9 U	1.9 U	2 U	2 U	18000
Aroclor 1016	ug/kg	9.3 U	2 U	2 U	1.8 U	1.8 U	1.8 U	1.9 U	2 U	1.9 U	1.9 U	2 U	2 U	1800 U
Aroclor 1262	ug/kg	9.3 U	2 U	2 U	1.8 U	1.8 U	1.8 U	1.9 U	2 U	1.9 U	1.9 U	2 U	2 U	1800 U
Aroclor 1242	ug/kg	9.3 U	2 U	2 U	1.8 U	1.8 U	1.8 U	1.9 U	2 U	1.9 U	1.9 U	2 U	2 U	1800 U
Aroclor 5432	ug/kg	18 UJ	3.8 UJ	3.9 UJ	3.5 U	3.5 UJ	3.6 U	3.6 UJ	3.9 UJ	3.7 U	3.8 U	3.8 U	3.8 UJ	3600 UJ

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-5B

	Sample Name	SL-083-SA5B-SB-4.0-5.0	SL-084-SA5B-SS-0.0-0.5	SL-085-SA5B-SS-0.0-0.5	SL-085-SA5B-SB-3.0-4.0	SL-086-SA5B-SS-0.0-0.5	SL-086-SA5B-SB-4.0-5.0	SL-087-SA5B-SS-0.0-0.5	SL-087-SA5B-SB-3.0-4.0	SL-088-SA5B-SB-3.0-4.0	SL-089-SA5B-SS-0.0-0.5	SL-089-SA5B-SB-4.0-5.0	SL-090-SA5B-SB-2.5-3.5	SL-091-SA5B-SS-0.0-0.5
	Sample Date	01/14/2011	12/13/2010	12/13/2010	01/11/2011	12/13/2010	01/11/2011	12/13/2010	01/11/2011	01/11/2011	12/13/2010	01/11/2011	01/11/2011	12/13/2010
	Lab SDG	DX039	DX020	DX021	DX038	DX020	DX038	DX021	DX038	DX038	DX020	DX038	DX038	DX021
	Start Depth	4	0	0	3	0	4	0	3	3	0	4	2.5	0
	End Depth	5	0.5	0.5	4	0.5	5	0.5	4	4	0.5	5	3.5	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
2,3,7,8-TCDD	ng/kg	1.11 U	0.104 J	0.0844	1.08 U	1.06 U	1.12 U	0.0365	1.08 U	1.12 U	1.07 U	1.15 U	0.0349 J	0.0431
1,2,3,7,8,9-HxCDD	ng/kg	0.0186 J	4.33 J	0.836	0.0533 J	0.26 J	0.0263 J	0.485	5.38 U	1.14 J	1.04 J	0.0456 J	0.0954 J	0.414
OCDD	ng/kg	11.1 U	1090	432	10.8 U	84.9	11.2 U	322	10.8 U	204	10500 J	11.5 U	21.5	179
1,2,3,4,6,7,8-HpCDD	ng/kg	5.57 U	129	37.3	5.42 U	8.11	5.61 U	30.1	5.38 U	22.2	675	5.75 U	1.93 J	17.7
OCDF	ng/kg	11.1 U	55.4	16.1	10.8 U	3.3 J	11.2 U	10.4	10.8 U	6.13 J	376	11.5 U	10.9 U	10.9 U
1,2,3,4,7,8-HxCDD	ng/kg	5.57 U	1.97 J	5.36 U	0.0421 J	5.31 U	5.61 U	0.163	5.38 U	0.268 J	0.383 J	5.75 U	0.0304 J	5.44 U
1,2,3,7,8-PeCDD	ng/kg	5.57 U	0.883 J	5.36 U	5.42 U	5.31 U	5.61 U	0.084	5.38 U	0.222 J	5.36 U	5.75 U	5.46 U	5.44 U
2,3,7,8-TCDF	ng/kg	0.00823 J	0.114 J	1.07 U	1.08 U	1.06 U	1.12 U	0.196	1.08 U	0.0924 J	1.07 U	1.15 U	1.09 U	1.09 U
1,2,3,4,7,8,9-HpCDF	ng/kg	5.57 U	2.04 J	5.36 U	5.42 U	5.31 U	5.61 U	0.527	5.38 U	0.354 J	5.67	5.75 U	5.46 U	5.44 U
2,3,4,7,8-PeCDF	ng/kg	5.57 U	0.239 J	5.36 U	0.0604 J	5.31 U	0.0742 J	0.386	0.0969 J	0.47 J	0.285 J	0.0793 J	0.0743 J	5.44 U
1,2,3,7,8-PeCDF	ng/kg	0.0176 J	0.257 J	5.36 U	5.42 U	5.31 U	0.042 J	0.489	0.0396 J	0.577 J	5.36 U	5.75 U	0.0678 J	5.44 U
1,2,3,6,7,8-HxCDF	ng/kg	5.57 U	1.28 J	5.36 U	5.42 U	5.31 U	5.61 U	0.319	5.38 U	0.391 J	0.755 J	5.75 U	5.46 U	5.44 U
1,2,3,6,7,8-HxCDD	ng/kg	5.57 U	3.9 J	5.36 U	0.0511 J	0.219 J	5.61 U	0.983	0.039 J	2.41 J	11.9	5.75 U	0.102 J	5.44 U
2,3,4,6,7,8-HxCDF	ng/kg	5.57 U	1.75 J	5.36 U	5.42 U	5.31 U	5.61 U	0.426	5.38 U	5.58 U	0.848 J	5.75 U	5.46 U	5.44 U
1,2,3,4,6,7,8-HpCDF	ng/kg	5.57 U	23.4	7.2 U	5.42 U	1.22 J	5.61 U	4.08	5.38 U	3.16 J	58	5.75 U	5.46 U	5.44 U
1,2,3,4,7,8-HxCDF	ng/kg	5.57 U	1.01 J	5.36 U	5.42 U	5.31 U	5.61 U	0.462	5.38 U	0.556 J	2.3 J	5.75 U	5.46 U	5.44 U
1,2,3,7,8,9-HxCDF	ng/kg	5.57 U	0.379 J	5.36 U	5.42 U	5.31 U	5.61 U	0.223	5.38 U	0.21 J	5.36 U	5.75 U	5.46 U	5.44 U
Aroclor 1260	ug/kg	1.9 U	1.9 U	9.1 U	1.8 U	1.7 J	1.9 U	11	1.4 J	3.4 J	6.6 J	2 U	1.9 U	3.7 U
Aroclor 1254	ug/kg	1.9 U	1.9 U	73	1.8 U	3.6 J	1.9 U	16	1.9 J	5.2 J	13	2 U	1.9 U	38 J
Aroclor 1268	ug/kg	1.9 U	1.9 U	9.1 U	1.8 U	1.8 U	1.9 U	3.7 U	3.7 U	9.5 U	9.1 U	2 U	1.9 U	3.7 U
Aroclor 1221	ug/kg	1.9 U	1.9 U	9.1 U	1.8 U	1.8 U	1.9 U	3.7 U	3.7 U	9.5 U	9.1 U	2 U	1.9 U	3.7 U
Aroclor 5460	ug/kg	3.7 U	3.6 UJ	9.7 J	3.6 UJ	1.7 J	3.7 UJ	5.1 J	2.3 J	18 UJ	6.6 J	3.8 UJ	3.6 UJ	2.8 J
Aroclor 1232	ug/kg	1.9 U	1.9 U	9.1 U	1.8 U	1.8 U	1.9 U	3.7 U	3.7 U	9.5 U	9.1 U	2 U	1.9 U	3.7 U
Aroclor 5442	ug/kg	3.7 U	3.6 UJ	18 U	3.6 UJ	3.5 UJ	3.7 UJ	7.2 U	7.1 UJ	18 UJ	18 UJ	3.8 UJ	3.6 UJ	7.2 U
Aroclor 1248	ug/kg	1.2 J	1.9 U	9.1 U	1.8 U	5.2 J	1.9 U	40	3.7 U	170	30	2 U	0.54 J	3.7 U
Aroclor 1016	ug/kg	1.9 U	1.9 U	9.1 U	1.8 U	1.8 U	1.9 U	3.7 U	3.7 U	9.5 U	9.1 U	2 U	1.9 U	3.7 U
Aroclor 1262	ug/kg	1.9 U	1.9 U	9.1 U	1.8 U	1.8 U	1.9 U	3.7 U	3.7 U	9.5 U	9.1 U	2 U	1.9 U	3.7 U
Aroclor 1242	ug/kg	1.9 U	1.9 U	9.1 U	1.8 U	1.8 U	1.9 U	3.7 U	45 J	9.5 U	9.1 U	2 U	1.9 U	3.7 U
Aroclor 5432	ug/kg	3.7 U	3.6 UJ	18 U	3.6 UJ	3.5 UJ	3.7 UJ	7.2 U	7.1 UJ	18 UJ	18 UJ	3.8 UJ	3.6 UJ	7.2 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-5B

	Sample Name	SL-091-SA5B-SB-4.0-5.0	SL-092-SA5B-SS-0.0-0.5	SL-092-SA5B-SB-4.0-5.0	SL-093-SA5B-SB-3.0-4.0	SL-094-SA5B-SB-4.0-5.0	SL-095-SA5B-SS-0.0-0.5	SL-095-SA5B-SB-4.0-5.0	SL-096-SA5B-SB-2.0-3.0	SL-097-SA5B-SB-4.0-5.0	SL-097-SA5B-SB-7.0-8.0	SL-098-SA5B-SS-0.0-0.5	SL-098-SA5B-SB-4.0-5.0	SL-099-SA5B-SB-4.0-5.0
	Sample Date	01/11/2011	12/13/2010	01/12/2011	01/11/2011	01/11/2011	12/13/2010	01/12/2011	01/12/2011	01/12/2011	01/12/2011	12/14/2010	01/12/2011	01/11/2011
	Lab SDG	DX038	DX020	DX039	DX038	DX038	DX021	DX037	DX037	DX039	DX039	DX022	DX039	DX038
	Start Depth	4	0	4	3	4	0	4	2	4	7	0	4	4
	End Depth	5	0.5	5	4	5	0.5	5	3	5	8	0.5	5	5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
2,3,7,8-TCDD	ng/kg	0.0666 J	1.13 U	0.0612 J	1.1 U	1.15 U	0.282	1.14 U	1.1 U	1.15 U	0.00833 J	1.03 U	1.14 U	1.15 U
1,2,3,7,8,9-HxCDD	ng/kg	5.69 U	0.17 J	0.196 J	0.0709 J	0.034 J	1.04	0.15 J	5.51 U	5.75 U	0.0243 J	5.17 U	0.0783 J	5.73 U
OCDD	ng/kg	11.4 U	32.1	26.5	11 U	11.5 U	574	43.7 J	11 U	11.5 U	11.4 U	598	11.4 U	11.5 U
1,2,3,4,6,7,8-HpCDD	ng/kg	5.69 U	3.82 J	2.5 J	5.49 U	5.77 U	54.9	3.95 J	5.51 U	5.75 U	5.72 U	60.4	5.69 U	5.73 U
OCDF	ng/kg	11.4 U	1.54 J	11.3 U	11 U	11.5 U	17.5	1.76 J	11 U	11.5 U	11.4 U	12.9	11.4 U	11.5 U
1,2,3,4,7,8-HxCDD	ng/kg	5.69 U	5.63 U	5.66 UJ	5.49 U	5.77 U	0.492	5.7 U	5.51 U	5.75 U	5.72 U	5.17 U	5.69 U	5.73 U
1,2,3,7,8-PeCDD	ng/kg	0.11 J	5.63 U	5.66 UJ	5.49 U	0.0332 J	0.369	0.0322 J	0.0805 J	5.75 U	5.72 U	5.17 U	5.69 U	5.73 U
2,3,7,8-TCDF	ng/kg	0.041 J	1.13 U	0.0513 J	1.1 U	1.15 U	0.146	1.14 UJ	0.022 J	1.15 U	0.0109 J	1.03 U	1.14 U	1.15 U
1,2,3,4,7,8,9-HpCDF	ng/kg	5.69 U	5.63 U	5.66 U	5.49 U	5.77 U	0.995	5.7 UJ	5.51 U	5.75 U	5.72 U	5.17 U	5.69 U	5.73 U
2,3,4,7,8-PeCDF	ng/kg	0.126 J	5.63 U	5.66 UJ	0.0536 J	0.0469 J	0.503	5.7 U	5.51 U	5.75 U	5.72 U	5.17 U	5.69 U	0.0737 J
1,2,3,7,8-PeCDF	ng/kg	0.0981 J	5.63 U	0.162 J	0.0169 J	5.77 U	0.515	5.7 UJ	5.51 U	5.75 U	0.0222 J	5.17 U	5.69 U	0.0233 J
1,2,3,6,7,8-HxCDF	ng/kg	5.69 U	5.63 U	5.66 UJ	5.49 U	5.77 U	0.603	5.7 UJ	5.51 U	5.75 U	5.72 U	5.17 U	5.69 U	5.73 U
1,2,3,6,7,8-HxCDD	ng/kg	0.0714 J	5.63 U	0.225 J	0.0422 J	5.77 U	1.84	0.169 J	5.51 U	5.75 U	5.72 U	2 J	5.69 U	5.73 U
2,3,4,6,7,8-HxCDF	ng/kg	5.69 U	5.63 U	5.66 UJ	5.49 U	5.77 U	0.632	5.7 UJ	5.51 U	5.75 U	5.72 U	5.17 U	5.69 U	5.73 U
1,2,3,4,6,7,8-HpCDF	ng/kg	5.69 U	0.724 J	5.66 U	5.49 U	5.77 U	7.39	5.7 U	5.51 U	5.75 U	5.72 U	5.52 U	5.69 U	5.73 U
1,2,3,4,7,8-HxCDF	ng/kg	5.69 U	5.63 U	5.66 UJ	5.49 U	5.77 U	0.509	5.7 U	5.51 U	5.75 U	5.72 U	5.17 U	5.69 U	5.73 U
1,2,3,7,8,9-HxCDF	ng/kg	5.69 U	5.63 U	5.66 UJ	5.49 U	5.77 U	0.532	5.7 UJ	5.51 U	5.75 U	5.72 U	5.17 U	5.69 U	5.73 U
Aroclor 1260	ug/kg	1.9 U	1.9 U	0.77 J	1.9 U	2 U	5.2	0.99 J	1.9 U	2 U	1.9 U	18 U	1.9 U	1.9 U
Aroclor 1254	ug/kg	1.9 U	1.9 U	1.9 UJ	1.9 U	2 U	9.2	1.5 J	1.9 U	2 U	1.9 U	4.9 J	1.9 U	1.9 U
Aroclor 1268	ug/kg	1.9 U	1.9 U	1.9 U	1.9 U	2 U	3.6 U	1.9 U	1.9 U	2 U	1.9 U	18 U	1.9 U	1.9 U
Aroclor 1221	ug/kg	1.9 U	1.9 U	1.9 U	1.9 U	2 U	3.6 U	1.9 U	1.9 U	2 U	1.9 U	18 U	1.9 U	1.9 U
Aroclor 5460	ug/kg	3.8 UJ	3.7 UJ	3.7 U	3.6 UJ	3.8 UJ	37	1.5 J	3.6 UJ	3.8 U	3.8 U	34 UJ	3.8 U	3.8 UJ
Aroclor 1232	ug/kg	1.9 U	1.9 U	1.9 U	1.9 U	2 U	3.6 U	1.9 U	1.9 U	2 U	1.9 U	18 U	1.9 U	1.9 U
Aroclor 5442	ug/kg	3.8 UJ	3.7 UJ	3.7 UJ	3.6 UJ	3.8 UJ	6.9 U	3.8 UJ	3.6 UJ	3.8 UJ	3.8 UJ	34 UJ	3.8 UJ	3.8 UJ
Aroclor 1248	ug/kg	1.9 U	1.9 U	1.9 U	1.9 U	2 U	3.6 U	2.3	1.9 U	2 U	1.9 U	18 U	1.9 U	1.9 U
Aroclor 1016	ug/kg	1.9 U	1.9 U	1.9 U	1.9 U	2 U	3.6 U	1.9 U	1.9 U	2 U	1.9 U	18 U	1.9 U	1.9 U
Aroclor 1262	ug/kg	1.9 U	1.9 U	1.9 U	1.9 U	2 U	3.6 U	1.9 U	1.9 U	2 U	1.9 U	18 U	1.9 U	1.9 U
Aroclor 1242	ug/kg	1.9 U	1.9 U	1.9 U	1.9 U	2 U	3.6 U	1.9 U	1.9 U	2 U	1.9 U	18 U	1.9 U	1.9 U
Aroclor 5432	ug/kg	3.8 UJ	3.7 UJ	3.7 U	3.6 UJ	3.8 UJ	6.9 U	3.8 UJ	3.6 UJ	3.8 U	3.8 U	34 UJ	3.8 U	3.8 UJ

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-5B

		Sample Name	SL-100-SA5B-SS-0.0-0.5	SL-100-SA5B-SB-4.0-5.0	SL-101-SA5B-SS-0.0-0.5	SL-101-SA5B-SB-4.0-5.0	SL-101-SA5B-SB-7.5-8.5	SL-102-SA5B-SS-0.0-0.5	SL-103-SA5B-SS-0.0-0.5	SL-103-SA5B-SB-4.0-5.0	SL-103-SA5B-SB-9.0-10.0	SL-104-SA5B-SB-4.0-5.0	SL-104-SA5B-SB-9.0-10.0	SL-105-SA5B-SS-0.0-0.5	SL-105-SA5B-SB-4.0-5.0
		Sample Date	12/22/2010	01/11/2011	12/22/2010	01/17/2011	01/17/2011	12/22/2010	12/13/2010	01/12/2011	01/12/2011	01/12/2011	01/12/2011	12/14/2010	01/10/2011
		Lab SDG	DX034	DX038	DX034	DX040	DX040	DX034	DX020	DX039	DX039	DX039	DX039	DX022	DX037
		Start Depth	0	4	0	4	7.5	0	0	4	9	4	9	0	4
		End Depth	0.5	5	0.5	5	8.5	0.5	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
2,3,7,8-TCDD	ng/kg		1.16 UJ	0.0367 J	1.18 U	1.14 U	1.09 U	1.13 U	1.13 U	0.095 J	1.15 U	1.11 U	1.12 U	1.04 U	1.12 U
1,2,3,7,8,9-HxCDD	ng/kg		0.723 J	0.0675 J	0.323 J	5.72 U	5.45 U	0.633 J	0.221 J	0.356 J	0.203 J	0.188 J	0.473 J	1.63 J	5.62 U
OCDD	ng/kg		707	6.1 J	11.8 U	5.21 J	10.9 U	477	14.4	251	35.5	75.3	299	1230	11.2 U
1,2,3,4,6,7,8-HpCDD	ng/kg		53.1	5.48 U	5.89 U	5.72 U	5.45 U	31	1.86 J	18.8	4.17 J	5.45 J	33	114	5.62 U
OCDF	ng/kg		11.8	11 U	11.8 U	11.4 U	10.9 U	15.7	11.3 U	10.9 J	11.5 U	2.44 J	4.07 J	29.3	11.2 U
1,2,3,4,7,8-HxCDD	ng/kg		0.336 J	5.48 U	5.89 U	5.72 U	5.45 U	0.274 J	5.63 U	0.244 J	5.73 U	5.56 U	5.62 U	5.22 U	5.62 U
1,2,3,7,8-PeCDD	ng/kg		0.147 J	5.48 U	0.0462 J	5.72 U	5.45 U	0.14 J	5.63 U	5.76 U	5.73 U	5.56 U	5.62 U	5.22 U	0.016 J
2,3,7,8-TCDF	ng/kg		1.16 U	0.0334 J	1.18 U	1.14 U	1.09 U	1.13 U	1.13 U	0.154 J	1.15 U	0.0509 J	0.206 J	1.04 U	1.12 U
1,2,3,4,7,8,9-HpCDF	ng/kg		0.499 J	5.48 U	5.89 U	5.72 U	5.45 U	0.487 J	5.63 U	5.76 U	5.73 U	5.56 U	5.62 U	5.22 U	5.62 U
2,3,4,7,8-PeCDF	ng/kg		5.81 U	0.0513 J	5.89 U	5.72 U	5.45 U	5.65 U	5.63 U	5.76 U	5.73 U	5.56 U	5.62 U	5.22 U	5.62 U
1,2,3,7,8-PeCDF	ng/kg		5.81 U	0.0295 J	5.89 U	5.72 U	5.45 U	5.65 U	5.63 U	0.344 J	0.25 J	0.119 J	0.35 J	5.22 U	5.62 U
1,2,3,6,7,8-HxCDF	ng/kg		5.81 U	5.48 U	5.89 U	5.72 U	5.45 U	0.27 J	5.63 U	5.76 U	5.73 U	5.56 U	5.62 U	5.22 U	5.62 U
1,2,3,6,7,8-HxCDD	ng/kg		1.72 J	0.103 J	0.214 J	5.72 U	5.45 U	0.993 J	0.145 J	0.581 J	0.222 J	5.56 U	0.723 J	4.14 J	5.62 U
2,3,4,6,7,8-HxCDF	ng/kg		0.335 J	5.48 U	5.89 U	5.72 U	5.45 U	0.267 J	5.63 U	5.76 U	5.73 U	5.56 U	5.62 U	5.22 U	5.62 U
1,2,3,4,6,7,8-HpCDF	ng/kg		4.69 J	5.48 U	5.89 U	5.72 U	5.45 U	4.65 J	5.63 U	3 J	5.73 U	5.56 U	5.62 U	12	5.62 U
1,2,3,4,7,8-HxCDF	ng/kg		0.324 J	5.48 U	5.89 U	5.72 U	5.45 U	0.321 J	5.63 U	5.76 U	5.73 U	5.56 U	5.62 U	5.22 U	5.62 U
1,2,3,7,8,9-HxCDF	ng/kg		5.81 U	5.48 U	0.303 J	5.72 U	5.45 U	5.65 U	5.63 U	5.76 U	5.73 U	5.56 U	5.62 U	5.22 U	5.62 U
Aroclor 1260	ug/kg		2 UJ	1.9 U	2 U	1.9 U	1.9 U	1.9 U	9.6 U	0.55 J	1.3 J	1.9 U	1.9 U	3.5 U	1.9 U
Aroclor 1254	ug/kg		2 UJ	1.9 U	2 U	1.9 U	1.9 U	1.9 U	26	2 U	1.1 J	1.9 U	1.9 U	30 J	1.9 U
Aroclor 1268	ug/kg		2 U	1.9 U	2 U	1.9 U	1.9 U	1.9 U	9.6 U	2 U	1.9 U	1.9 U	1.9 U	3.5 U	1.9 U
Aroclor 1221	ug/kg		2 U	1.9 U	2 U	1.9 U	1.9 U	1.9 U	9.6 U	2 U	1.9 U	1.9 U	1.9 U	3.5 U	1.9 U
Aroclor 5460	ug/kg		3.8 UJ	3.6 UJ	3.9 U	3.8 UJ	3.6 UJ	3.7 U	19 UJ	3.8 U	3.8 U	3.7 U	3.7 U	4.6 J	3.7 UJ
Aroclor 1232	ug/kg		2 U	1.9 U	2 U	1.9 U	1.9 U	1.9 U	9.6 U	2 U	1.9 U	1.9 U	1.9 U	3.5 U	1.9 U
Aroclor 5442	ug/kg		3.8 U	3.6 UJ	3.9 U	3.8 UJ	3.6 UJ	3.7 U	19 UJ	3.8 UJ	3.8 UJ	3.7 UJ	3.7 UJ	6.9 UJ	3.7 UJ
Aroclor 1248	ug/kg		2 U	1.9 U	2 U	1.9 U	1.9 U	1.9 U	9.6 U	2 U	1.9 U	1.9 U	1.9 U	3.5 U	1.9 U
Aroclor 1016	ug/kg		2 U	1.9 U	2 U	1.9 U	1.9 U	1.9 U	9.6 U	2 U	1.9 U	1.9 U	1.9 U	3.5 U	1.9 U
Aroclor 1262	ug/kg		2 U	1.9 U	2 U	1.9 U	1.9 U	1.9 U	9.6 U	2 U	1.9 U	1.9 U	1.9 U	3.5 U	1.9 U
Aroclor 1242	ug/kg		2 U	1.9 U	2 U	1.9 U	1.9 U	1.9 U	9.6 U	2 U	7.5 J	1.9 U	1.9 U	3.5 U	1.9 U
Aroclor 5432	ug/kg		3.8 U	3.6 UJ	3.9 U	3.8 UJ	3.6 UJ	3.7 U	19 UJ	3.8 U	3.8 U	3.7 U	3.7 U	6.9 UJ	3.7 UJ

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-5B

	Sample Name	SL-106-SA5B-SB-4.0-5.0	SL-107-SA5B-SB-4.0-5.0	SL-108-SA5B-SS-0.0-0.5	SL-108-SA5B-SB-4.0-5.0	SL-109-SA5B-SS-0.0-0.5	SL-109-SA5B-SB-4.0-5.0	SL-110-SA5B-SB-4.0-5.0	SL-111-SA5B-SB-4.0-5.0	SL-111-SA5B-SB-9.0-10.0	SL-112-SA5B-SB-4.0-5.0	SL-113-SA5B-SB-4.0-5.0	SL-114-SA5B-SS-0.0-0.5	SL-114-SA5B-SB-4.0-5.0
	Sample Date	01/10/2011	01/10/2011	12/14/2010	01/10/2011	12/14/2010	01/10/2011	01/10/2011	01/10/2011	01/10/2011	01/17/2011	01/17/2011	12/22/2010	01/18/2011
	Lab SDG	DX037	DX037	DX022	DX037	DX022	DX037	DX037	DX037	DX037	DX040	DX040	DX034	DX041
	Start Depth	4	4	0	4	0	4	4	4	9	4	4	0	4
	End Depth	5	5	0.5	5	0.5	5	5	5	10	5	5	0.5	5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
2,3,7,8-TCDD	ng/kg	1.08 U	1.15 U	1.05 U	1.1 U	1.06 U	1.13 U	1.06 U	1.13 U	1.14 U	1.08 U	1.12 U	0.0498 J	1.09 U
1,2,3,7,8,9-HxCDD	ng/kg	5.38 U	5.75 U	1.5 J	5.51 U	5.31 U	5.64 U	5.32 U	0.854 J	0.286 J	5.38 U	0.101 J	0.758 J	5.44 U
OCDD	ng/kg	10.8 U	11.5 U	1070	11 U	689	11.3 U	10.6 U	787	146	7.94 J	14.1	423	106
1,2,3,4,6,7,8-HpCDD	ng/kg	5.38 U	5.75 U	104	5.51 U	65.3	5.64 U	5.32 U	64.2	13.6	5.38 U	1.39 J	30.3	6.35
OCDF	ng/kg	10.8 U	11.5 U	26.2	11 U	16	11.3 U	10.6 U	20	3.68 J	10.8 U	11.2 U	10.4 J	2.39 J
1,2,3,4,7,8-HxCDD	ng/kg	5.38 U	5.75 U	5.23 U	5.51 U	5.31 U	5.64 U	5.32 U	0.446 J	0.128 J	5.38 U	5.6 U	0.285 J	5.44 U
1,2,3,7,8-PeCDD	ng/kg	0.0259 J	0.014 J	5.23 U	5.51 U	5.31 U	0.0475 J	0.0224 J	0.151 J	0.0688 J	5.38 U	5.6 U	0.253 J	5.44 U
2,3,7,8-TCDF	ng/kg	0.0168 J	0.0115 J	1.05 U	1.1 U	1.06 U	0.017 J	0.0101 J	1.13 U	1.14 U	1.08 U	0.0347 J	1.25 U	1.09 U
1,2,3,4,7,8,9-HpCDF	ng/kg	5.38 U	5.75 U	5.23 U	5.51 U	5.31 U	5.64 U	5.32 U	0.688 J	5.68 U	5.38 U	5.6 U	0.372 J	5.44 U
2,3,4,7,8-PeCDF	ng/kg	5.38 U	5.75 U	5.23 U	5.51 U	5.31 U	5.64 U	5.32 U	5.64 U	5.68 U	5.38 U	5.6 U	6.23 U	5.44 U
1,2,3,7,8-PeCDF	ng/kg	5.38 U	5.75 U	5.23 U	5.51 U	5.31 U	5.64 U	5.32 U	0.213 J	5.68 U	5.38 U	5.6 U	0.183 J	5.44 U
1,2,3,6,7,8-HxCDF	ng/kg	5.38 U	5.75 U	5.23 U	5.51 U	5.31 U	5.64 U	5.32 U	0.292 J	5.68 U	5.38 U	5.6 U	0.295 J	5.44 U
1,2,3,6,7,8-HxCDD	ng/kg	5.38 U	5.75 U	3.51 J	5.51 U	2.38 J	5.64 U	5.32 U	1.98 J	0.593 J	5.38 U	5.6 U	0.969 J	5.44 U
2,3,4,6,7,8-HxCDF	ng/kg	5.38 U	5.75 U	5.23 U	5.51 U	5.31 U	5.64 U	5.32 U	0.426 J	5.68 U	5.38 U	5.6 U	0.249 J	5.44 U
1,2,3,4,6,7,8-HpCDF	ng/kg	5.38 U	5.75 U	11.2	5.51 U	7.18	5.64 U	5.32 U	6.5	1.38 J	5.38 U	5.6 U	3.19 J	5.44 U
1,2,3,4,7,8-HxCDF	ng/kg	5.38 U	5.75 U	5.23 U	5.51 U	5.31 U	5.64 U	5.32 U	0.376 J	5.68 U	5.38 U	5.6 U	0.331 J	5.44 U
1,2,3,7,8,9-HxCDF	ng/kg	5.38 U	5.75 U	5.23 U	5.51 U	5.31 U	5.64 U	5.32 U	5.64 U	5.68 U	5.38 U	5.6 U	6.23 U	5.44 U
Aroclor 1260	ug/kg	1.8 U	2 U	2.6 J	1.9 U	2.5	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U	1.1 J	1.1 J
Aroclor 1254	ug/kg	1.8 U	2 U	1.8 U	1.9 U	1.8 U	1.9 U	1.8 U	0.4 J	1.9 U	1.8 U	1.9 U	3.4	2.1
Aroclor 1268	ug/kg	1.8 U	2 U	1.8 U	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U	2.1 U	1.8 U
Aroclor 1221	ug/kg	1.8 U	2 U	1.8 U	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U	2.1 U	1.8 U
Aroclor 5460	ug/kg	3.5 UJ	3.8 UJ	3.3 J	3.6 UJ	2.4 J	3.7 UJ	3.5 UJ	3.7 UJ	3.8 UJ	3.6 UJ	3.7 UJ	1.9 J	3.6 U
Aroclor 1232	ug/kg	1.8 U	2 U	1.8 U	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U	2.1 U	1.8 U
Aroclor 5442	ug/kg	3.5 UJ	3.8 UJ	3.5 UJ	3.6 UJ	3.5 UJ	3.7 UJ	3.5 UJ	3.7 UJ	3.8 UJ	3.6 UJ	3.7 UJ	4.1 U	3.6 U
Aroclor 1248	ug/kg	1.8 U	2 U	1.8 U	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U	2.1 U	1.8 U
Aroclor 1016	ug/kg	1.8 U	2 U	1.8 U	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U	2.1 U	1.8 U
Aroclor 1262	ug/kg	1.8 U	2 U	1.8 U	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U	2.1 U	1.8 U
Aroclor 1242	ug/kg	1.8 U	2 U	1.8 U	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U	2.1 U	1.8 U
Aroclor 5432	ug/kg	3.5 UJ	3.8 UJ	3.5 UJ	3.6 UJ	3.5 UJ	3.7 UJ	3.5 UJ	3.7 UJ	3.8 UJ	3.6 UJ	3.7 UJ	4.1 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-5B

	Sample Name	SL-115-SA5B-SB-4.0-5.0	SL-116-SA5B-SB-4.0-5.0	SL-117-SA5B-SS-0.0-0.5	SL-117-SA5B-SB-4.0-5.0	SL-118-SA5B-SS-0.0-0.5	SL-118-SA5B-SB-4.0-5.0	SL-118-SA5B-SB-8.0-9.0	SL-119-SA5B-SS-0.0-0.5	SL-119-SA5B-SB-3.0-4.0	SL-120-SA5B-SS-0.0-0.5	SL-120-SA5B-SB-3.0-4.0	SL-121-SA5B-SS-0.0-0.5	SL-121-SA5B-SB-4.0-5.0
	Sample Date	01/18/2011	01/18/2011	12/22/2010	01/17/2011	12/22/2010	01/18/2011	01/18/2011	12/14/2010	01/13/2011	12/14/2010	01/13/2011	12/14/2010	01/13/2011
	Lab SDG	DX041	DX041	DX034	DX040	DX034	DX041	DX041	DX022	DX038	DX022	DX038	DX022	DX038
	Start Depth	4	4	0	4	0	4	8	0	3	0	3	0	4
	End Depth	5	5	0.5	5	0.5	5	9	0.5	4	0.5	4	0.5	5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
2,3,7,8-TCDD	ng/kg	1.11 U	1.15 U	0.0344 J	1.13 U	1.18 U	1.14 U	1.12 U	1.08 U	1.13 U	1.04 UJ	1.1 U	1.06 U	1.08 U
1,2,3,7,8,9-HxCDD	ng/kg	5.53 U	5.74 U	0.0933 J	0.27 J	0.318 J	5.7 U	5.61 U	5.41 U	0.068 J	5.21 U	0.0957 J	5.3 U	0.142 J
OCDD	ng/kg	32.7	11.5 U	33.7	4.39 J	118	11.4 U	11.2 U	278	11.3 U	199	11 U	26.8	10.8 U
1,2,3,4,6,7,8-HpCDD	ng/kg	2.55 J	5.74 U	2.26 J	5.65 U	9.38	5.7 U	5.61 U	23.8	5.63 U	18.5	5.49 U	5.3 U	5.41 U
OCDF	ng/kg	11.1 U	11.5 U	1.04 J	11.3 U	4.02 J	11.4 U	11.2 U	15.6	11.3 U	11.5	11 U	10.6 U	10.8 U
1,2,3,4,7,8-HxCDD	ng/kg	5.53 U	5.74 U	6.2 U	5.65 U	5.9 U	5.7 U	5.61 U	5.41 U	5.63 U	5.21 U	0.0421 J	5.3 U	5.41 U
1,2,3,7,8-PeCDD	ng/kg	5.53 U	5.74 U	0.0485 J	5.65 U	0.0471 J	5.7 U	5.61 U	5.41 U	5.63 U	5.21 U	0.0551 J	5.3 U	5.41 U
2,3,7,8-TCDF	ng/kg	1.11 U	1.15 U	1.24 U	1.13 U	1.18 U	1.14 U	1.12 U	1.08 U	1.13 U	1.04 U	1.1 U	1.06 U	1.08 U
1,2,3,4,7,8,9-HpCDF	ng/kg	5.53 U	5.74 U	6.2 U	5.65 U	5.9 U	5.7 U	5.61 U	5.41 U	5.63 U	5.21 U	5.49 U	5.3 U	5.41 U
2,3,4,7,8-PeCDF	ng/kg	5.53 U	5.74 U	6.2 U	5.65 U	0.287 J	5.7 U	5.61 U	5.41 U	0.093 J	5.21 U	0.0688 J	5.3 U	0.0329 J
1,2,3,7,8-PeCDF	ng/kg	5.53 U	5.74 U	6.2 U	5.65 U	5.9 U	5.7 U	5.61 U	5.41 U	0.0519 J	5.21 U	0.0322 J	5.3 U	5.41 U
1,2,3,6,7,8-HxCDF	ng/kg	5.53 U	5.74 U	6.2 U	5.65 U	5.9 U	5.7 U	5.61 U	5.41 U	5.63 U	5.21 U	5.49 U	5.3 U	5.41 U
1,2,3,6,7,8-HxCDD	ng/kg	5.53 U	5.74 U	0.0782 J	0.16 J	0.39 J	5.7 U	5.61 U	5.41 U	0.0347 J	5.21 U	0.0544 J	5.3 U	0.0269 J
2,3,4,6,7,8-HxCDF	ng/kg	5.53 U	5.74 U	6.2 U	5.65 U	5.9 U	5.7 U	5.61 U	5.41 U	5.63 U	5.21 U	5.49 U	5.3 U	5.41 U
1,2,3,4,6,7,8-HpCDF	ng/kg	5.53 U	5.74 U	0.346 J	5.65 U	1.29 J	5.7 U	5.61 U	6	5.63 U	5.21 U	5.49 U	5.3 U	5.41 U
1,2,3,4,7,8-HxCDF	ng/kg	5.53 U	5.74 U	6.2 U	5.65 U	5.9 U	5.7 U	5.61 U	5.41 U	5.63 U	5.21 U	5.49 U	5.3 U	5.41 U
1,2,3,7,8,9-HxCDF	ng/kg	5.53 U	5.74 U	6.2 U	5.65 U	5.9 U	5.7 U	5.61 U	5.41 U	5.63 U	5.21 U	5.49 U	5.3 U	5.41 U
Aroclor 1260	ug/kg	1.9 U	2 U	2.1 U	1.9 U	1 J	1.9 U	1.9 U	3.7 U	1.9 U	0.91 J	1.9 U	1.8 U	1.8 U
Aroclor 1254	ug/kg	0.57 J	2 U	2.1 U	1.9 U	0.79 J	1.9 U	1.9 U	31 J	1.9 U	0.94 J	1.9 U	1.8 U	1.8 U
Aroclor 1268	ug/kg	1.9 U	2 U	2.1 U	1.9 U	2 U	1.9 U	1.9 U	3.7 U	1.9 U	1.8 U	1.9 U	1.8 U	1.8 U
Aroclor 1221	ug/kg	1.9 U	2 U	2.1 U	1.9 U	2 U	1.9 U	1.9 U	3.7 U	1.9 U	1.8 U	1.9 U	1.8 U	1.8 U
Aroclor 5460	ug/kg	3.7 U	3.8 U	4.1 U	3.7 UJ	2.5 J	3.8 U	3.7 U	3.8 J	3.7 UJ	1.9 J	3.6 UJ	3.5 UJ	3.6 UJ
Aroclor 1232	ug/kg	1.9 U	2 U	2.1 U	1.9 U	2 U	1.9 U	1.9 U	3.7 U	1.9 U	1.8 U	1.9 U	1.8 U	1.8 U
Aroclor 5442	ug/kg	3.7 U	3.8 U	4.1 U	3.7 UJ	3.9 U	3.8 U	3.7 U	7.1 UJ	3.7 UJ	3.4 UJ	3.6 UJ	3.5 UJ	3.6 UJ
Aroclor 1248	ug/kg	1.9 U	2 U	2.1 U	1.9 U	2 U	1.9 U	1.9 U	3.7 U	1.9 U	1.8 U	1.9 U	1.8 U	1.8 U
Aroclor 1016	ug/kg	1.9 U	2 U	2.1 U	1.9 U	2 U	1.9 U	1.9 U	3.7 U	1.9 U	1.8 U	1.9 U	1.8 U	1.8 U
Aroclor 1262	ug/kg	1.9 U	2 U	2.1 U	1.9 U	2 U	1.9 U	1.9 U	3.7 U	1.9 U	1.8 U	1.9 U	1.8 U	1.8 U
Aroclor 1242	ug/kg	1.9 U	2 U	2.1 U	1.9 U	2 U	1.9 U	1.9 U	3.7 U	1.9 U	1.8 U	1.9 U	1.8 U	1.8 U
Aroclor 5432	ug/kg	3.7 U	3.8 U	4.1 U	3.7 UJ	3.9 U	3.8 U	3.7 U	7.1 UJ	3.7 UJ	3.4 UJ	3.6 UJ	3.5 UJ	3.6 UJ

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-5B

		Sample Name	SL-121-SA5B-SB-9.0-10.0	SL-122-SA5B-SS-0.0-0.5	SL-122-SA5B-SB-2.0-3.0	SL-123-SA5B-SS-0.0-0.5	SL-124-SA5B-SS-0.0-0.5	SL-124-SA5B-SB-4.0-5.0	SL-124-SA5B-SB-7.5-8.5	SL-125-SA5B-SS-0.0-0.5	SL-125-SA5B-SB-4.0-5.0	SL-126-SA5B-SS-0.0-0.5	SL-126-SA5B-SB-2.0-3.0	SL-128-SA5B-SS-0.0-0.5	SL-128-SA5B-SB-4.0-5.0
		Sample Date	01/13/2011	12/14/2010	01/13/2011	12/14/2010	12/14/2010	01/14/2011	01/14/2011	12/14/2010	01/14/2011	12/14/2010	01/14/2011	12/14/2010	01/14/2011
		Lab SDG	DX038	DX022	DX038	DX022	DX022	DX039	DX039	DX023	DX039	DX023	DX039	DX023	DX039
		Start Depth	9	0	2	0	0	4	7.5	0	4	0	2	0	4
		End Depth	10	0.5	3	0.5	0.5	5	8.5	0.5	5	0.5	3	0.5	5
Chemical Name	Unit		Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
2,3,7,8-TCDD	ng/kg		1.3 U	1.06 U	1.16 U	1.06 U	1.05 U	0.0236 J	0.0101 J	1.06 U	0.00908 J	1.05 U	1.09 U	1.06 U	0.0128 J
1,2,3,7,8,9-HxCDD	ng/kg		0.0733 J	5.29 U	0.56 J	4.83 J	2.43 J	0.0366 J	0.0205 J	3.2 J	0.0526 J	3.99 J	0.102 J	2.57 J	0.118 J
OCDD	ng/kg		13 U	22.4	4.24 J	1920	1120	11.4 U	11.5 U	1280	11.1 U	1800	10.9 U	920	11.7 U
1,2,3,4,6,7,8-HpCDD	ng/kg		6.49 U	5.29 U	5.79 U	201	93.4	5.71 U	5.75 U	116	5.57 U	174	5.46 U	89.1	5.83 U
OCDF	ng/kg		13 U	10.6 U	11.6 U	114	34.2	11.4 U	11.5 U	63.9	11.1 U	103	10.9 U	39.3	11.7 U
1,2,3,4,7,8-HxCDD	ng/kg		6.49 U	5.29 U	5.79 U	2.46 J	1.06 J	5.71 U	5.75 U	1.57 J	5.57 U	1.87 J	5.46 U	1.09 J	5.83 U
1,2,3,7,8-PeCDD	ng/kg		0.0708 J	5.29 U	0.0513 J	5.32 U	5.27 U	5.71 U	5.75 U	0.843 J	5.57 U	0.942 J	5.46 U	0.614 J	5.83 U
2,3,7,8-TCDF	ng/kg		1.3 U	1.06 U	1.16 U	1.29	1.05 U	0.0165 J	0.00627 J	0.276 J	0.0143 J	0.318 J	0.00908 J	0.293 J	0.00874 J
1,2,3,4,7,8,9-HpCDF	ng/kg		6.49 U	5.29 U	5.79 U	2.94 J	5.27 U	5.71 U	5.75 U	1.91 J	5.57 U	2.06 J	5.46 U	1.01 J	5.83 U
2,3,4,7,8-PeCDF	ng/kg		0.0657 J	5.29 U	0.0554 J	2.23 J	5.27 U	5.71 U	5.75 U	0.641 J	5.57 U	0.742 J	5.46 U	0.679 J	5.83 U
1,2,3,7,8-PeCDF	ng/kg		6.49 U	5.29 U	5.79 U	5.32 U	5.27 U	0.0183 J	0.0143 J	0.659 J	0.0354 J	0.765 J	0.0399 J	0.463 J	0.0726 J
1,2,3,6,7,8-HxCDF	ng/kg		6.49 U	5.29 U	5.79 U	1.84 J	5.27 U	5.71 U	5.75 U	2.54 J	5.57 U	1.75 J	5.46 U	0.746 J	5.83 U
1,2,3,6,7,8-HxCDD	ng/kg		0.073 J	5.29 U	0.466 J	6.79	2.93 J	5.71 U	5.75 U	3.86 J	5.57 U	5.41	5.46 U	3.18 J	5.83 U
2,3,4,6,7,8-HxCDF	ng/kg		6.49 U	5.29 U	5.79 U	5.32 U	5.27 U	5.71 U	5.75 U	1.22 J	5.57 U	1.23 J	5.46 U	0.796 J	5.83 U
1,2,3,4,6,7,8-HpCDF	ng/kg		6.49 U	5.29 U	5.79 U	37.2	14.3	5.71 U	5.75 U	22	5.57 U	33	5.46 U	13.8	5.83 U
1,2,3,4,7,8-HxCDF	ng/kg		6.49 U	5.29 U	5.79 U	5.32 U	5.27 U	5.71 U	5.75 U	0.887 J	5.57 U	1.23 J	5.46 U	0.674 J	5.83 U
1,2,3,7,8,9-HxCDF	ng/kg		6.49 U	5.29 U	5.79 U	5.32 U	5.27 U	5.71 U	5.75 U	5.28 U	5.57 U	5.25 U	5.46 U	5.3 U	5.83 U
Aroclor 1260	ug/kg		2.2 U	1 J	2 U	1.8 U	3.5 J	1.9 U	2 U	3.1 J	1.9 U	0.5 J	1.9 U	2.7	2 U
Aroclor 1254	ug/kg		2.2 U	2 J	2 U	1.8 U	10 J	1.9 U	2 U	21 J	1.9 U	1.8 U	1.9 U	5.4	2 U
Aroclor 1268	ug/kg		2.2 U	1.8 U	2 U	1.8 U	1.8 U	1.9 U	2 U	1.8 U	1.9 U	1.8 U	1.9 U	1.8 U	2 U
Aroclor 1221	ug/kg		2.2 U	1.8 U	2 U	1.8 U	1.8 U	1.9 U	2 U	1.8 U	1.9 U	1.8 U	1.9 U	1.8 U	2 U
Aroclor 5460	ug/kg		4.3 UJ	3.5 UJ	3.8 UJ	3.5 UJ	4.8 J	3.8 U	3.8 U	22 J	3.7 U	3.5 UJ	3.6 U	9.8 J	3.8 U
Aroclor 1232	ug/kg		2.2 U	1.8 U	2 U	1.8 U	1.8 U	1.9 U	2 U	1.8 U	1.9 U	1.8 U	1.9 U	1.8 U	2 U
Aroclor 5442	ug/kg		4.3 UJ	3.5 UJ	3.8 UJ	3.5 UJ	3.5 UJ	3.8 U	3.8 U	3.5 UJ	3.7 U	3.5 UJ	3.6 U	3.5 UJ	3.8 U
Aroclor 1248	ug/kg		2.2 U	1.8 U	2 U	1.8 U	1.8 U	1.9 U	2 U	1.8 U	1.9 U	1.8 U	1.9 U	1.8 U	2 U
Aroclor 1016	ug/kg		2.2 U	1.8 U	2 U	1.8 U	1.8 U	1.9 U	2 U	1.8 U	1.9 U	1.8 U	1.9 U	1.8 U	2 U
Aroclor 1262	ug/kg		2.2 U	1.8 U	2 U	1.8 U	1.8 U	1.9 U	2 U	1.8 U	1.9 U	1.8 U	1.9 U	1.8 U	2 U
Aroclor 1242	ug/kg		2.2 U	1.8 U	2 U	1.8 U	1.8 U	1.9 U	2 U	1.8 U	1.9 U	1.8 U	1.9 U	1.8 U	2 U
Aroclor 5432	ug/kg		4.3 UJ	3.5 UJ	3.8 UJ	3.5 UJ	3.5 UJ	3.8 U	3.8 U	3.5 UJ	3.7 U	3.5 UJ	3.6 U	3.5 UJ	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-5B

	Sample Name	SL-129-SA5B-SS-0.0-0.5	SL-129-SA5B-SB-2.0-3.0	SL-131-SA5B-SS-0.0-0.5	SL-132-SA5B-SS-0.0-0.5	SL-133-SA5B-SS-0.0-0.5	SL-134-SA5B-SS-0.0-0.5	SL-135-SA5B-SS-0.0-0.5	SL-136-SA5B-SS-0.0-0.5	SL-137-SA5B-SS-0.0-0.5	SL-138-SA5B-SS-0.0-0.5	SL-139-SA5B-SS-0.0-0.5	SL-140-SA5B-SS-0.0-0.5	SL-141-SA5B-SS-0.0-0.5
	Sample Date	12/14/2010	01/14/2011	12/15/2010	12/15/2010	12/15/2010	12/15/2010	12/15/2010	12/15/2010	01/06/2011	02/11/2011	12/13/2010	01/04/2011	02/11/2011
	Lab SDG	DX023	DX039	DX024	DX024	DX024	DX024	DX024	DX024	DX036	DX050	DX020	DX035	DX050
	Start Depth	0	2	0	0	0	0	0	0	0	0	0	0	0
	End Depth	0.5	3	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
2,3,7,8-TCDD	ng/kg	0.166 J	0.0166 J	0.0653 J	0.0517 J	0.161 J	0.857 J	0.801 J	0.0729 J	1.1 U	0.866 J	1.14 U	0.0717 J	0.0422 J
1,2,3,7,8,9-HxCDD	ng/kg	8.22	0.319 J	2.38 J	0.775 J	1.12 J	2 J	18.7	3.05 J	0.444 J	25.9	0.936 J	0.809 J	1.3 J
OCDD	ng/kg	11200 J	271	3130	234	347	530	5210 J	1640	364	50100 J	830	526	237
1,2,3,4,6,7,8-HpCDD	ng/kg	949	26.3	196	23.9	31.8	51.8	555	119	25.1	3050 J	35.3	46	25.2
OCDF	ng/kg	773	22.1	27.9	11.4	18.6	21.4	296	40.3	8.01 J	577	11.8	14.4	9.11 J
1,2,3,4,7,8-HxCDD	ng/kg	4.08 J	5.41 U	0.966 J	0.574 J	0.654 J	0.844 J	9.76	1.24 J	0.206 J	9.64	0.492 J	0.513 J	0.467 J
1,2,3,7,8-PeCDD	ng/kg	1.94 J	5.41 U	0.537 J	0.325 J	0.501 J	1.4 J	5.35 J	0.719 J	0.147 J	5.41 J	5.69 U	5.79 U	0.337 J
2,3,7,8-TCDF	ng/kg	0.33 J	1.08 U	0.209 J	1.02 J	0.61 J	0.297 J	0.896 J	0.791 J	0.0714 J	0.949 J	0.8 J	1.16 U	0.0533 J
1,2,3,4,7,8,9-HpCDF	ng/kg	9.95	0.312 J	1.05 J	5.63 U	0.593 J	0.685 J	7.92	1.32 J	0.465 J	15.8	0.794 J	0.476 J	0.283 J
2,3,4,7,8-PeCDF	ng/kg	0.839 J	5.41 U	0.73 J	0.851 J	0.875 J	0.51 J	1.74 J	1.82 J	5.51 U	5.38 J	0.892 J	5.79 U	5.37 U
1,2,3,7,8-PeCDF	ng/kg	0.687 J	0.0282 J	0.491 J	0.337 J	0.182 J	0.359 J	1.38 J	0.789 J	0.307 J	5.51 U	9.17	0.329 J	0.13 J
1,2,3,6,7,8-HxCDF	ng/kg	3.48 J	5.41 U	0.815 J	0.289 J	0.351 J	0.441 J	4.26 J	1.08 J	0.36 J	6.58	1.06 J	0.297 J	0.2 J
1,2,3,6,7,8-HxCDD	ng/kg	23.9	0.753 J	3.99 J	1.04 J	1.27 J	2.1 J	20.3	4.26 J	0.69 J	68.1	1.32 J	1.74 J	1.26 J
2,3,4,6,7,8-HxCDF	ng/kg	3.93 J	5.41 U	0.893 J	0.343 J	0.536 J	0.551 J	5.26 J	1.18 J	5.51 U	10.6	0.695 J	0.382 J	0.232 J
1,2,3,4,6,7,8-HpCDF	ng/kg	195	4.62 J	11.1	3.59 J	5.61	8.16	106	14.8	3.87 J	170	6.38	4.92 J	3.76 J
1,2,3,4,7,8-HxCDF	ng/kg	3.48 J	5.41 U	0.866 J	0.469 J	0.438 J	0.547 J	4.87 J	1.2 J	5.51 U	6.29	1.16 J	0.337 J	0.198 J
1,2,3,7,8,9-HxCDF	ng/kg	1.15 J	5.41 U	0.498 J	5.63 U	0.233 J	5.26 U	1.52 J	0.794 J	5.51 U	1.66 J	0.862 J	5.79 U	0.364 J
Aroclor 1260	ug/kg	18 U	1.8 U	2.7	38 U	9.1 U	9.4 J	9.7 J	12	0.36 J	120 J	97 U	1.8 J	1.8 U
Aroclor 1254	ug/kg	18 U	1.8 U	3.5	49	9.1 U	17 J	20	24	0.75 J	240 J	500	8.2	0.4 J
Aroclor 1268	ug/kg	18 U	1.8 U	1.8 U	38 U	9.1 U	3.6 U	19 U	1.9 U	1.9 U	94 U	97 U	2 U	1.8 U
Aroclor 1221	ug/kg	18 U	1.8 U	1.8 U	38 U	9.1 U	3.6 U	19 U	1.9 U	1.9 U	94 U	97 U	2 U	1.8 U
Aroclor 5460	ug/kg	18 J	3.6 U	1.3 J	74 U	18 U	7.1	17 J	7.7	3.6 UJ	650 J	190 UJ	2.7 J	3.5 UJ
Aroclor 1232	ug/kg	18 U	1.8 U	1.8 U	38 U	9.1 U	3.6 U	19 U	1.9 U	1.9 U	94 U	97 U	2 U	1.8 U
Aroclor 5442	ug/kg	35 UJ	3.6 U	3.5 U	74 U	18 U	6.9 U	37 U	3.6 U	3.6 UJ	180 UJ	190 UJ	3.8 U	3.5 UJ
Aroclor 1248	ug/kg	18 U	1.8 U	1.8 U	38 U	9.1 U	3.6 U	19 U	9.9	1.9 U	200 J	97 U	2 U	1.8 U
Aroclor 1016	ug/kg	18 U	1.8 U	1.8 U	38 U	9.1 U	3.6 U	19 U	1.9 U	1.9 U	94 U	97 U	2 U	1.8 U
Aroclor 1262	ug/kg	18 U	1.8 U	1.8 U	38 U	9.1 U	3.6 U	19 U	1.9 U	1.9 U	94 U	97 U	2 U	1.8 U
Aroclor 1242	ug/kg	18 U	1.8 U	1.8 U	38 U	9.1 U	3.6 U	19 U	1.9 U	1.9 U	94 U	97 U	2 U	1.8 U
Aroclor 5432	ug/kg	35 UJ	3.6 U	3.5 U	74 U	18 U	6.9 U	37 U	3.6 U	3.6 UJ	180 UJ	190 UJ	3.8 U	3.5 UJ

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-5B

	Sample Name	SL-142-SA5B-SS-0.0-0.5	SL-143-SA5B-SS-0.0-0.5	SL-144-SA5B-SS-0.0-0.5	SL-145-SA5B-SB-4.0-5.0	SL-146-SA5B-SB-4.0-5.0	SL-147-SA5B-SS-0.0-0.5	SL-148-SA5B-SB-4.0-5.0	SL-149-SA5B-SS-0.0-0.5	SL-149-SA5B-SB-3.5-4.5	SL-150-SA5B-SS-0.0-0.5	SL-150-SA5B-SB-4.0-5.0	SL-151-SA5B-SB-4.0-5.0	SL-151-SA5B-SB-7.0-8.0
	Sample Date	12/14/2010	12/14/2010	02/11/2011	12/22/2010	01/04/2011	12/16/2010	01/25/2011	12/15/2010	01/25/2011	12/15/2010	01/25/2011	01/24/2011	01/24/2011
	Lab SDG	DX022	DX022	DX050	DX034	DX035	DX026	DX044	DX024	DX044	DX024	DX044	DX043	DX043
	Start Depth	0	0	0	4	4	0	4	0	3.5	0	4	4	7
	End Depth	0.5	0.5	0.5	5	5	0.5	5	0.5	4.5	0.5	5	5	8
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
2,3,7,8-TCDD	ng/kg	1.07 U	1.04 U	0.276 J	1.14 U	1.15 U	0.141 J	1.14 U	0.0659 J	1.06 U	0.0833 J	1.13 U	1.15 U	1.16 U
1,2,3,7,8,9-HxCDD	ng/kg	5.33 U	5.19 U	30.9	0.182 J	0.281 J	3.99 J	5.72 U	2.03 J	5.3 U	4.07 J	5.64 U	5.77 U	5.78 U
OCDD	ng/kg	31.3	29.2	13200 J	11.4 U	11.5 U	1760	11.4 U	737	10.6 U	2320	11.3 U	26.8	185
1,2,3,4,6,7,8-HpCDD	ng/kg	5.33 U	5.19 U	1710	5.72 U	5.77 U	153	5.72 U	68.7	5.3 U	192	5.64 U	5.77 U	9
OCDF	ng/kg	10.7 U	10.4 U	275	11.4 U	11.5 U	89.6	11.4 U	39.9	10.6 U	265	11.3 U	11.5 U	11.6 U
1,2,3,4,7,8-HxCDD	ng/kg	5.33 U	5.19 U	11.8	5.72 U	0.0345 J	2.06 J	5.72 U	0.921 J	5.3 U	1.94 J	5.64 U	5.77 U	5.78 U
1,2,3,7,8-PeCDD	ng/kg	5.33 U	5.19 U	9.15	0.0271 J	5.77 U	1.19 J	5.72 U	0.461 J	5.3 U	0.697 J	5.64 U	5.77 U	5.78 U
2,3,7,8-TCDF	ng/kg	1.07 U	1.04 U	1.1 U	1.14 U	1.15 U	0.535 J	1.14 U	0.282 J	1.06 U	0.277 J	1.13 U	1.15 U	1.16 U
1,2,3,4,7,8,9-HpCDF	ng/kg	5.33 U	5.19 U	8.31	5.72 U	5.77 U	2.38 J	5.72 U	1.16 J	5.3 U	5.53	5.64 U	5.77 U	5.78 U
2,3,4,7,8-PeCDF	ng/kg	5.33 U	5.19 U	4.94 J	5.72 U	5.77 U	1.02 J	5.72 U	0.589 J	5.3 U	0.708 J	5.64 U	5.77 U	5.78 U
1,2,3,7,8-PeCDF	ng/kg	5.33 U	5.19 U	5.5 U	5.72 U	5.77 U	2.05 J	5.72 U	0.869 J	5.3 U	0.671 J	5.64 U	5.77 U	5.78 U
1,2,3,6,7,8-HxCDF	ng/kg	5.33 U	5.19 U	8.01	5.72 U	5.77 U	1.39 J	5.72 U	0.861 J	5.3 U	2.6 J	5.64 U	5.77 U	5.78 U
1,2,3,6,7,8-HxCDD	ng/kg	5.33 U	5.19 U	49.9	0.126 J	0.142 J	5.5 J	5.72 U	2.52 J	5.3 U	5.41	5.64 U	5.77 U	0.43 J
2,3,4,6,7,8-HxCDF	ng/kg	5.33 U	5.19 U	5.79	5.72 U	5.77 U	1.61 J	5.72 U	0.883 J	5.3 U	3.13 J	5.64 U	5.77 U	5.78 U
1,2,3,4,6,7,8-HpCDF	ng/kg	5.33 U	5.19 U	100	5.72 U	5.77 U	26.4	5.72 U	15.7	5.3 U	79.8	5.64 U	5.77 U	5.78 U
1,2,3,4,7,8-HxCDF	ng/kg	5.33 U	5.19 U	5.5 U	5.72 U	5.77 U	1.3 J	5.72 U	0.752 J	5.3 U	2.39 J	5.64 U	5.77 U	5.78 U
1,2,3,7,8,9-HxCDF	ng/kg	5.33 U	5.19 U	1.61 J	0.268 J	5.77 U	0.445 J	5.72 U	0.281 J	5.3 U	0.444 J	5.64 U	5.77 U	5.78 U
Aroclor 1260	ug/kg	1.8 U	0.51 J	1.9 U	1.9 U	2 U	89	1.9 U	3 J	1.8 U	2.4	1.9 U	2 U	2 U
Aroclor 1254	ug/kg	1.8 U	0.67 J	1.9 U	1.9 U	2 U	44	1.9 U	1.8 U	1.8 U	3.9	1.9 U	2 U	2 U
Aroclor 1268	ug/kg	1.8 U	1.8 U	1.9 U	1.9 U	2 U	9.7 U	1.9 U	1.8 U	1.8 U	1.8 U	1.9 U	2 U	2 U
Aroclor 1221	ug/kg	1.8 U	1.8 U	1.9 U	1.9 U	2 U	9.7 U	1.9 U	1.8 U	1.8 U	1.8 U	1.9 U	2 U	2 U
Aroclor 5460	ug/kg	3.5 UJ	1.1 J	3.6 UJ	3.8 U	3.8 U	62 J	3.8 UJ	5 J	3.5 UJ	4.4	3.7 UJ	3.8 UJ	3.8 UJ
Aroclor 1232	ug/kg	1.8 U	1.8 U	1.9 U	1.9 U	2 U	9.7 U	1.9 U	1.8 U	1.8 U	1.8 U	1.9 U	2 U	2 U
Aroclor 5442	ug/kg	3.5 UJ	3.4 UJ	3.6 UJ	3.8 U	3.8 U	19 UJ	3.8 UJ	3.4 U	3.5 UJ	3.5 U	3.7 UJ	3.8 UJ	3.8 UJ
Aroclor 1248	ug/kg	1.8 U	1.8 U	1.9 U	1.9 U	2 U	9.7 U	1.9 U	1.8 U	1.8 U	1.8 U	1.9 U	2 U	2 U
Aroclor 1016	ug/kg	1.8 U	1.8 U	1.9 U	1.9 U	2 U	9.7 U	1.9 U	1.8 U	1.8 U	1.8 U	1.9 U	2 U	2 U
Aroclor 1262	ug/kg	1.8 U	1.8 U	1.9 U	1.9 U	2 U	9.7 U	1.9 U	1.8 U	1.8 U	1.8 U	1.9 U	2 U	2 U
Aroclor 1242	ug/kg	1.8 U	1.8 U	1.9 U	1.9 U	2 U	9.7 U	1.9 U	1.8 U	1.8 U	1.8 U	1.9 U	2 U	2 U
Aroclor 5432	ug/kg	3.5 UJ	3.4 UJ	3.6 UJ	3.8 U	3.8 U	19 UJ	3.8 UJ	3.4 U	3.5 UJ	3.5 U	3.7 UJ	3.8 UJ	3.8 UJ

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-5B

	Sample Name	SL-152-SA5B-SB-4.0-5.0	SL-152-SA5B-SB-9.0-10.0	SL-153-SA5B-SS-0.0-0.5	SL-153-SA5B-SB-4.0-5.0	SL-154-SA5B-SB-4.0-5.0	SL-155-SA5B-SS-0.0-0.5	SL-155-SA5B-SB-3.5-4.5	SL-156-SA5B-SS-0.0-0.5	SL-156-SA5B-SB-4.0-5.0	SL-157-SA5B-SB-4.0-5.0	SL-157-SA5B-SB-9.0-10.0	SL-158-SA5B-SB-4.0-5.0	SL-159-SA5B-SS-0.0-0.5
	Sample Date	01/24/2011	01/24/2011	12/15/2010	01/24/2011	01/24/2011	12/15/2010	01/24/2011	12/15/2010	01/25/2011	12/22/2010	12/22/2010	12/22/2010	12/21/2010
	Lab SDG	DX043	DX043	DX024	DX044	DX044	DX024	DX044	DX024	DX044	DX034	DX034	DX034	DX032
	Start Depth	4	9	0	4	4	0	3.5	0	4	4	9	4	0
	End Depth	5	10	0.5	5	5	0.5	4.5	0.5	5	5	10	5	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
2,3,7,8-TCDD	ng/kg	1.16 U	1.16 U	0.161 J	1.11 U	1.14 U	1.04 U	1.13 U	0.139 J	1.13 U	1.1 U	0.0194 J	1.11 U	0.25 J
1,2,3,7,8,9-HxCDD	ng/kg	5.81 U	5.81 U	5.44 J	5.53 U	5.69 U	1.22 J	5.63 U	5.11 J	5.66 U	0.557 J	0.199 J	0.742 J	14.2
OCDD	ng/kg	11.6 U	11.6 U	2010	11.1 U	11.4 U	313	11.3 U	1910	11.3 U	19.6	11.1 U	9.91 J	28700 J
1,2,3,4,6,7,8-HpCDD	ng/kg	5.81 U	5.81 U	165	5.53 U	5.69 U	25.2	5.63 U	183	5.66 U	1.24 J	5.57 U	5.54 U	908
OCDF	ng/kg	11.6 U	11.6 U	67.9	11.1 U	11.4 U	4.59 J	11.3 U	34.6	11.3 U	11 U	11.1 U	11.1 U	220
1,2,3,4,7,8-HxCDD	ng/kg	5.81 U	5.81 U	2.53 J	5.53 U	5.69 U	0.182 J	5.63 U	2.84 J	5.66 U	5.49 U	5.57 U	5.54 U	5.59 J
1,2,3,7,8-PeCDD	ng/kg	5.81 U	5.81 U	1.14 J	5.53 U	5.69 U	5.22 U	5.63 U	1.43 J	5.66 U	0.0595 J	0.0256 J	0.0711 J	2.08 J
2,3,7,8-TCDF	ng/kg	1.16 U	0.0286 J	0.461 J	1.11 U	1.14 U	0.137 J	1.13 U	0.573 J	1.13 U	1.1 U	1.11 U	1.11 U	0.324 J
1,2,3,4,7,8,9-HpCDF	ng/kg	5.81 U	5.81 U	2.02 J	5.53 U	5.69 U	5.22 U	5.63 U	2.99 J	5.66 U	5.49 U	5.57 U	5.54 U	3.64 J
2,3,4,7,8-PeCDF	ng/kg	5.81 U	5.81 U	0.92 J	5.53 U	5.69 U	5.22 U	5.63 U	1.51 J	5.66 U	5.49 U	5.57 U	5.54 U	1.02 J
1,2,3,7,8-PeCDF	ng/kg	5.81 U	5.81 U	0.628 J	5.53 U	5.69 U	0.298 J	5.63 U	0.693 J	5.66 U	5.49 U	5.57 U	5.54 U	1.18 J
1,2,3,6,7,8-HxCDF	ng/kg	5.81 U	5.81 U	1.38 J	5.53 U	5.69 U	0.234 J	5.63 U	2.2 J	5.66 U	5.49 U	5.57 U	5.54 U	1.97 J
1,2,3,6,7,8-HxCDD	ng/kg	5.81 U	5.81 U	6.16	5.53 U	5.69 U	1.24 J	5.63 U	7.38	5.66 U	0.416 J	0.0946 J	0.38 J	26.4
2,3,4,6,7,8-HxCDF	ng/kg	5.81 U	5.81 U	1.83 J	5.53 U	5.69 U	0.262 J	5.63 U	2.25 J	5.66 U	5.49 U	5.57 U	5.54 U	2.8 J
1,2,3,4,6,7,8-HpCDF	ng/kg	5.81 U	5.81 U	29	5.53 U	5.69 U	2.35 J	5.63 U	20.1	5.66 U	0.213 J	5.57 U	5.54 U	62.5
1,2,3,4,7,8-HxCDF	ng/kg	5.81 U	5.81 U	1.47 J	5.53 U	5.69 U	5.22 U	5.63 U	1.85 J	5.66 U	5.49 U	5.57 U	5.54 U	3.75 J
1,2,3,7,8,9-HxCDF	ng/kg	5.81 U	5.81 U	0.874 J	5.53 U	5.69 U	0.391 J	5.63 U	0.686 J	5.66 U	0.324 J	5.57 U	0.441 J	1.57 J
Aroclor 1260	ug/kg	2 U	2 U	38 J	1.9 U	1.9 U	1.8 J	1.9 U	50	1.9 U	1.9 U	1.9 U	1.9 U	2.8
Aroclor 1254	ug/kg	2 U	2 U	26 J	1.9 U	1.9 U	3.5 J	1.9 U	350	1.9 U	1.9 U	1.9 U	1.9 U	2 U
Aroclor 1268	ug/kg	2 U	2 U	3.9 U	1.9 U	1.9 U	1.8 U	1.9 U	18 U	1.9 U	1.9 U	1.9 U	1.9 U	2 U
Aroclor 1221	ug/kg	2 U	2 U	3.9 U	1.9 U	1.9 U	1.8 U	1.9 U	18 U	1.9 U	1.9 U	1.9 U	1.9 U	2 U
Aroclor 5460	ug/kg	3.8 UJ	3.8 UJ	110	3.7 UJ	3.8 UJ	3.4 U	3.7 UJ	36	3.7 UJ	3.6 U	3.7 U	3.7 U	1.9 J
Aroclor 1232	ug/kg	2 U	2 U	3.9 U	1.9 U	1.9 U	1.8 U	1.9 U	18 U	1.9 U	1.9 U	1.9 U	1.9 U	2 U
Aroclor 5442	ug/kg	3.8 UJ	3.8 UJ	7.6 U	3.7 UJ	3.8 UJ	3.4 U	3.7 UJ	35 U	3.7 UJ	3.6 U	3.7 U	3.7 U	3.8 U
Aroclor 1248	ug/kg	2 U	2 U	3.9 U	1.9 U	1.9 U	1.8 U	1.9 U	280	1.9 U	1.9 U	1.9 U	1.9 U	2 U
Aroclor 1016	ug/kg	2 U	2 U	3.9 U	1.9 U	1.9 U	1.8 U	1.9 U	18 U	1.9 U	1.9 U	1.9 U	1.9 U	2 U
Aroclor 1262	ug/kg	2 U	2 U	3.9 U	1.9 U	1.9 U	1.8 U	1.9 U	18 U	1.9 U	1.9 U	1.9 U	1.9 U	2 U
Aroclor 1242	ug/kg	2 U	2 U	3.9 U	1.9 U	1.9 U	1.8 U	1.9 U	18 U	1.9 U	1.9 U	1.9 U	1.9 U	2 U
Aroclor 5432	ug/kg	3.8 UJ	3.8 UJ	7.6 U	3.7 UJ	3.8 UJ	3.4 U	3.7 UJ	35 U	3.7 UJ	3.6 U	3.7 U	3.7 U	3.8 U

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

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

	Sample Name	SL-159-SA5B-SB-4.0-5.0	SL-159-SA5B-SB-8.0-9.0	SL-160-SA5B-SS-0.0-0.5	SL-160-SA5B-SB-4.0-5.0	SL-161-SA5B-SS-0.0-0.5	SL-161-SA5B-SB-4.0-5.0	SL-162-SA5B-SS-0.0-0.5	SL-162-SA5B-SB-4.0-5.0	SL-163-SA5B-SB-3.5-4.5	SL-164-SA5B-SB-4.0-5.0	SL-165-SA5B-SB-4.0-5.0	SL-166-SA5B-SS-0.0-0.5	SL-168-SA5B-SB-4.0-5.0
	Sample Date	02/04/2011	02/04/2011	12/17/2010	02/07/2011	12/17/2010	02/07/2011	12/17/2010	02/07/2011	02/07/2011	02/08/2011	02/04/2011	12/17/2010	02/08/2011
	Lab SDG	DX047	DX047	DX028	DX048	DX028	DX048	DX028	DX048	DX048	DX048	DX047	DX028	DX048
	Start Depth	4	8	0	4	0	4	0	4	3.5	4	4	0	4
	End Depth	5	9	0.5	5	0.5	5	0.5	5	4.5	5	5	0.5	5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
2,3,7,8-TCDD	ng/kg	1.13 U	1.22 U	0.701 J	1.1 U	2.85	0.0344 J	3.8	1.13 U	0.0819 J	0.0833 J	1.12 U	0.208 J	0.0206 J
1,2,3,7,8,9-HxCDD	ng/kg	0.674 J	6.11 U	13.2	0.245 J	38.4	0.591 J	70.1	0.94 J	0.801 J	2.07 J	0.418 J	5.58	0.718 J
OCDD	ng/kg	795	12.2 U	6770 J	121	27400 J	388	38700 J	470	492	1020	100	6020 J	207
1,2,3,4,6,7,8-HpCDD	ng/kg	33.7	6.11 U	681	12	2230	34.1	3400 J	41.6	41.7	91.8	5.77	291	19.7
OCDF	ng/kg	5.01 J	12.2 U	269	4.66 J	699	9.85 J	1410	14.6	13.4	27.2	1.27 J	92	6.45 J
1,2,3,4,7,8-HxCDD	ng/kg	0.327 J	6.11 U	7.2	0.0918 J	20	0.246 J	36.2	0.481 J	0.394 J	0.992 J	0.0783 J	2.43 J	0.199 J
1,2,3,7,8-PeCDD	ng/kg	5.67 U	6.11 U	3.22 J	5.52 U	7.76	0.13 J	14.2	0.249 J	0.148 J	0.446 J	5.6 U	1.03 J	0.115 J
2,3,7,8-TCDF	ng/kg	1.13 U	1.22 U	1.74	1.1 U	6.09	0.0746 J	9.85	0.175 J	0.145 J	0.821 J	1.12 U	0.681 J	0.148 J
1,2,3,4,7,8,9-HpCDF	ng/kg	0.119 J	0.0225 J	14.3	0.29 J	32.4	0.483 J	72.4	0.827 J	0.716 J	1.43 J	0.0693 J	3.09 J	0.344 J
2,3,4,7,8-PeCDF	ng/kg	5.67 U	6.11 U	2.04 J	5.52 U	6.95	5.53 U	12.2	5.64 U	5.39 U	0.704 J	5.6 U	1.4 J	0.201 J
1,2,3,7,8-PeCDF	ng/kg	5.67 U	6.11 U	2.71 J	5.52 U	14.4	5.53 U	20.1	5.64 U	5.39 U	0.352 J	5.6 U	2.28 J	0.103 J
1,2,3,6,7,8-HxCDF	ng/kg	5.67 U	6.11 U	6.39	5.52 U	14.2	0.256 J	32.6	5.64 U	0.29 J	0.774 J	5.6 U	1.9 J	0.177 J
1,2,3,6,7,8-HxCDD	ng/kg	1.1 J	6.11 U	28.4	0.512 J	78.7	1.13 J	149	1.61 J	1.48 J	3.84 J	0.392 J	17.4	0.966 J
2,3,4,6,7,8-HxCDF	ng/kg	5.67 U	6.11 U	10.9	0.219 J	22.6	0.329 J	52.7	5.64 U	0.414 J	1.01 J	5.6 U	2.73 J	0.253 J
1,2,3,4,6,7,8-HpCDF	ng/kg	1.45 J	6.11 U	119	2.1 J	285	4.21 J	622	6.33	5.47	12.2	0.473 J	41.3	2.82 J
1,2,3,4,7,8-HxCDF	ng/kg	5.67 U	6.11 U	5.56	0.227 J	14.5	0.334 J	31.2	0.878 J	0.415 J	1.04 J	0.25 J	2.41 J	0.322 J
1,2,3,7,8,9-HxCDF	ng/kg	5.67 U	6.11 U	1.3 J	5.52 U	3.16 J	5.53 U	6.21	5.64 U	5.39 U	0.284 J	0.265 J	1.43 J	0.301 J
Aroclor 1260	ug/kg	1.9 U	2.1 U	7.5	2.3 J	78	3.1 J	5300	4.5	1.1 J	13 J	1.2 J	7.4	0.6 J
Aroclor 1254	ug/kg	1.9 U	2.1 U	9.2	1.9 U	130	9.3 J	510 U	1.9 U	2.1	1.8 U	1.9 U	17	1.9 U
Aroclor 1268	ug/kg	1.9 U	2.1 U	1.9 U	1.9 U	10 U	1.9 U	510 U	1.9 U	1.8 U	1.8 U	1.9 U	1.8 U	1.9 U
Aroclor 1221	ug/kg	1.9 U	2.1 U	1.9 U	1.9 U	10 U	1.9 U	510 U	1.9 U	1.8 U	1.8 U	1.9 U	1.8 U	1.9 U
Aroclor 5460	ug/kg	3.7 U	4 U	8 J	1.2 J	95 J	3.3 J	990 UJ	2.4 J	1.3 J	19 J	3.7 U	7.9 J	3.7 UJ
Aroclor 1232	ug/kg	1.9 U	2.1 U	1.9 U	1.9 U	10 U	1.9 U	510 U	1.9 U	1.8 U	1.8 U	1.9 U	1.8 U	1.9 U
Aroclor 5442	ug/kg	3.7 U	4 U	3.7 UJ	3.6 UJ	20 UJ	3.7 UJ	990 UJ	3.7 UJ	3.6 UJ	3.6 UJ	3.7 U	3.4 UJ	3.7 UJ
Aroclor 1248	ug/kg	1.9 U	2.1 U	1.9 U	1.9 U	10 U	1.9 U	510 U	1.9 U	1.8 U	1.8 U	1.9 U	1.8 U	1.9 U
Aroclor 1016	ug/kg	1.9 U	2.1 U	1.9 U	1.9 U	10 U	1.9 U	510 U	1.9 U	1.8 U	1.8 U	1.9 U	1.8 U	1.9 U
Aroclor 1262	ug/kg	1.9 U	2.1 U	1.9 U	1.9 U	10 U	1.9 U	510 U	1.9 U	1.8 U	1.8 U	1.9 U	1.8 U	1.9 U
Aroclor 1242	ug/kg	1.9 U	2.1 U	1.9 U	1.9 U	10 U	1.9 U	510 U	1.9 U	1.8 U	1.8 U	1.9 U	1.8 U	1.9 U
Aroclor 5432	ug/kg	3.7 U	4 U	3.7 UJ	3.6 UJ	20 UJ	3.7 UJ	990 UJ	3.7 UJ	3.6 UJ	3.6 UJ	3.7 U	3.4 UJ	3.7 UJ

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-5B

	Sample Name	SL-169-SA5B-SS-0.0-0.5	SL-172-SA5B-SS-0.0-0.5	SL-172-SA5B-SB-2.0-3.0	SL-173-SA5B-SS-0.0-0.5	SL-173-SA5B-SB-2.0-3.0	SL-175-SA5B-SB-4.0-5.0	SL-176-SA5B-SS-0.0-0.5	SL-176-SA5B-SB-4.0-5.0	SL-177-SA5B-SB-4.0-5.0	SL-178-SA5B-SS-0.0-0.5	SL-178-SA5B-SB-4.0-5.0	SL-179-SA5B-SB-4.0-5.0	SL-179-SA5B-SB-7.0-8.0
	Sample Date	12/16/2010	12/16/2010	02/02/2011	12/16/2010	02/02/2011	01/31/2011	12/16/2010	01/31/2011	01/31/2011	12/16/2010	01/28/2011	01/28/2011	01/28/2011
	Lab SDG	DX026	DX026	DX047	DX026	DX047	DX046	DX026	DX046	DX046	DX026	DX045	DX045	DX045
	Start Depth	0	0	2	0	2	4	0	4	4	0	4	4	7
	End Depth	0.5	0.5	3	0.5	3	5	0.5	5	5	0.5	5	5	8
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
2,3,7,8-TCDD	ng/kg	0.0922 J	0.142 J	1.08 U	0.0963 J	1.11 U	1.14 U	1.05 U	1.16 U	1.17 U	1.76	1.16 U	1.16 U	1.15 U
1,2,3,7,8,9-HxCDD	ng/kg	4.72 J	3.75 J	0.0433 J	9.19	0.0941 J	0.195 J	3.59 J	5.78 U	5.84 U	43.2	5.79 U	0.355 J	0.0258 J
OCDD	ng/kg	2180	1390	2.41 J	16200 J	2.18 J	57.5	1380	9.01 J	11.7 U	15300 J	11.6 U	33.5	11.5 U
1,2,3,4,6,7,8-HpCDD	ng/kg	178	83.4	5.41 U	563	5.56 U	6.17	130	1.18 J	5.84 U	1450	5.79 U	2.1 J	5.73 U
OCDF	ng/kg	108	33.2	10.8 U	99.5	11.1 U	11.4 U	35.8	11.6 U	11.7 U	595	11.6 U	11.6 U	11.5 U
1,2,3,4,7,8-HxCDD	ng/kg	2.3 J	1.51 J	5.41 U	3.41 J	5.56 U	5.72 U	1.58 J	5.78 U	5.84 U	19.7	0.0175 J	5.81 U	5.73 U
1,2,3,7,8-PeCDD	ng/kg	1.26 J	0.883 J	5.41 U	1.41 J	5.56 U	5.72 U	1.08 J	5.78 U	5.84 U	11.2	5.79 U	5.81 U	5.73 U
2,3,7,8-TCDF	ng/kg	0.425 J	1.06 U	1.08 U	1.07 U	1.11 U	1.14 U	6.42	1.16 U	1.17 U	2.68	0.0159 J	1.16 U	1.15 U
1,2,3,4,7,8,9-HpCDF	ng/kg	2.36 J	1.02 J	0.0246 J	1.47 J	0.0281 J	5.72 U	1.98 J	5.78 U	5.84 U	15.8	5.79 U	5.81 U	5.73 U
2,3,4,7,8-PeCDF	ng/kg	1 J	0.466 J	5.41 U	0.721 J	5.56 U	5.72 U	4.69 J	5.78 U	5.84 U	5.6 J	5.79 U	5.81 U	5.73 U
1,2,3,7,8-PeCDF	ng/kg	1.09 J	0.455 J	5.41 U	0.574 J	5.56 U	5.72 U	23	5.78 U	5.84 U	6.59	5.79 U	0.0933 J	5.73 U
1,2,3,6,7,8-HxCDF	ng/kg	1.31 J	0.67 J	5.41 U	0.747 J	5.56 U	5.72 U	3.1 J	5.78 U	5.84 U	10.9	5.79 U	5.81 U	5.73 U
1,2,3,6,7,8-HxCDD	ng/kg	6.65	3.39 J	0.0365 J	16.6	0.0429 J	0.227 J	5.2 J	5.78 U	5.84 U	61.1	0.0192 J	0.238 J	5.73 U
2,3,4,6,7,8-HxCDF	ng/kg	1.49 J	0.775 J	5.41 U	1.22 J	5.56 U	5.72 U	2.46 J	5.78 U	5.84 U	11.5	5.79 U	5.81 U	5.73 U
1,2,3,4,6,7,8-HpCDF	ng/kg	24.8	11	5.41 U	30.5	5.56 U	5.72 U	15.8	5.78 U	5.84 U	213	5.79 U	5.81 U	5.73 U
1,2,3,4,7,8-HxCDF	ng/kg	1.27 J	0.536 J	5.41 U	2.02 J	5.56 U	0.216 J	4.68 J	5.78 U	5.84 U	10.3	5.79 U	5.81 U	5.73 U
1,2,3,7,8,9-HxCDF	ng/kg	0.642 J	0.474 J	5.41 U	0.827 J	5.56 U	5.72 U	1.31 J	5.78 U	5.84 U	2.81 J	5.79 U	0.287 J	5.73 U
Aroclor 1260	ug/kg	8	0.92 J	1.8 U	3.7	1.9 U	1.9 U	450 U	2 U	2 U	61	2 U	2 U	1.9 U
Aroclor 1254	ug/kg	16	2	1.8 U	1.8 U	1.9 U	1.9 U	2900	2 U	2 U	51	2 U	2 U	1.9 U
Aroclor 1268	ug/kg	3.9 U	1.8 U	1.8 U	1.8 U	1.9 U	1.9 U	450 U	2 U	2 U	22 U	2 U	2 U	1.9 U
Aroclor 1221	ug/kg	3.9 U	1.8 U	1.8 U	1.8 U	1.9 U	1.9 U	450 U	2 U	2 U	22 U	2 U	2 U	1.9 U
Aroclor 5460	ug/kg	7 J	2.1 J	3.6 UJ	3.8 J	3.7 UJ	3.8 UJ	870 UJ	3.8 UJ	3.9 UJ	54 J	3.8 UJ	3.6 J	3.8 UJ
Aroclor 1232	ug/kg	3.9 U	1.8 U	1.8 U	1.8 U	1.9 U	1.9 U	450 U	2 U	2 U	22 U	2 U	2 U	1.9 U
Aroclor 5442	ug/kg	7.5 UJ	3.5 UJ	3.6 UJ	3.5 UJ	3.7 UJ	3.8 UJ	870 UJ	3.8 UJ	3.9 UJ	42 UJ	3.8 UJ	3.8 UJ	3.8 UJ
Aroclor 1248	ug/kg	3.9 U	1.8 U	1.8 U	1.8 U	1.9 U	1.9 U	450 U	2 U	2 U	22 U	2 U	2 U	1.9 U
Aroclor 1016	ug/kg	3.9 U	1.8 U	1.8 U	1.8 U	1.9 U	1.9 U	450 U	2 U	2 U	22 U	2 U	2 U	1.9 U
Aroclor 1262	ug/kg	3.9 U	1.8 U	1.8 U	1.8 U	1.9 U	1.9 U	450 U	2 U	2 U	22 U	2 U	2 U	1.9 U
Aroclor 1242	ug/kg	3.9 U	1.8 U	1.8 U	1.8 U	1.9 U	1.9 U	450 U	2 U	2 U	22 U	2 U	2 U	1.9 U
Aroclor 5432	ug/kg	7.5 UJ	3.5 UJ	3.6 UJ	3.5 UJ	3.7 UJ	3.8 UJ	870 UJ	3.8 UJ	3.9 UJ	42 UJ	3.8 UJ	3.8 UJ	3.8 UJ

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-5B

		Sample Name	SL-180-SA5B-SB-4.0-5.0	SL-180-SA5B-SB-9.0-10.0	SL-181-SA5B-SS-0.0-0.5	SL-181-SA5B-SB-4.0-5.0	SL-182-SA5B-SB-4.0-5.0	SL-183-SA5B-SS-0.0-0.5	SL-183-SA5B-SB-4.0-5.0	SL-184-SA5B-SB-3.0-4.0	SL-185-SA5B-SB-4.0-5.0	SL-186-SA5B-SS-0.0-0.5	SL-186-SA5B-SB-4.0-5.0	SL-187-SA5B-SS-0.0-0.5	SL-187-SA5B-SB-4.0-5.0
		Sample Date	01/26/2011	01/26/2011	12/15/2010	01/27/2011	01/31/2011	12/21/2010	01/28/2011	01/28/2011	01/27/2011	12/16/2010	01/27/2011	12/16/2010	02/01/2011
		Lab SDG	DX044	DX044	DX024	DX045	DX044	DX032	DX045	DX045	DX045	DX026	DX045	DX026	DX046
		Start Depth	4	9	0	4	4	0	4	3	4	0	4	0	4
		End Depth	5	10	0.5	5	5	0.5	5	4	5	0.5	5	0.5	5
Chemical Name	Unit		Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
2,3,7,8-TCDD	ng/kg		1.15 U	1.15 U	1.09 U	1.15 U	1.14 U	1.19 U	1.14 U	1.17 U	1.14 U	0.123 J	0.0361 J	0.876 J	1.07 U
1,2,3,7,8,9-HxCDD	ng/kg		5.73 U	5.73 U	2.08 J	0.0833 J	5.71 U	1.37 J	0.556 J	0.653 J	0.327 J	2.68 J	5.57 U	27.1	5.35 U
OCDD	ng/kg		11.5 U	11.5 U	1300	11.5 U	11.4 UJ	730	4.95 J	171	55.3	1480	11.1 U	23500 J	10.7 U
1,2,3,4,6,7,8-HpCDD	ng/kg		5.73 U	5.73 U	72	5.73 U	5.71 U	47.2	5.69 U	19.6	4.26 J	171	5.57 U	1340	5.35 U
OCDF	ng/kg		11.5 U	11.5 U	22	11.5 U	11.4 U	24.5	11.4 U	5.27 J	1.28 J	65.8	11.1 U	1880	10.7 U
1,2,3,4,7,8-HxCDD	ng/kg		5.73 U	5.73 U	0.801 J	5.73 U	5.71 U	0.674 J	5.69 U	0.252 J	0.0622 J	2.16 J	5.57 U	15.6	5.35 U
1,2,3,7,8-PeCDD	ng/kg		5.73 U	5.73 U	0.54 J	5.73 U	5.71 UJ	0.398 J	5.69 U	5.83 U	5.72 U	0.507 J	5.57 U	6.98	5.35 U
2,3,7,8-TCDF	ng/kg		1.15 U	1.15 U	0.195 J	1.15 U	1.14 UJ	0.0984 J	1.14 U	0.107 J	0.0925 J	1.07 U	1.11 U	1.06 U	1.07 U
1,2,3,4,7,8,9-HpCDF	ng/kg		5.73 U	5.73 U	0.686 J	5.73 U	5.71 U	0.735 J	5.69 U	5.83 U	5.72 U	1.31 J	5.57 U	30.3	5.35 U
2,3,4,7,8-PeCDF	ng/kg		5.73 U	5.73 U	0.483 J	5.73 U	5.71 U	5.94 U	5.69 U	5.83 U	5.72 U	0.555 J	5.57 U	2.32 J	5.35 U
1,2,3,7,8-PeCDF	ng/kg		5.73 U	5.73 U	0.203 J	5.73 U	5.71 UJ	0.33 J	0.0861 J	0.0977 J	0.0749 J	0.878 J	5.57 U	1.6 J	5.35 U
1,2,3,6,7,8-HxCDF	ng/kg		5.73 U	5.73 U	0.383 J	5.73 U	5.71 U	0.436 J	5.69 U	5.83 U	5.72 U	0.616 J	5.57 U	60.4	5.35 U
1,2,3,6,7,8-HxCDD	ng/kg		5.73 U	5.73 U	2.9 J	0.0588 J	5.71 U	1.44 J	0.361 J	0.836 J	0.36 J	3.51 J	5.57 U	31	5.35 U
2,3,4,6,7,8-HxCDF	ng/kg		5.73 U	5.73 U	0.448 J	5.73 U	5.71 U	0.392 J	5.69 U	0.173 J	5.72 U	0.718 J	5.57 U	18.8	5.35 U
1,2,3,4,6,7,8-HpCDF	ng/kg		5.73 U	5.73 U	7.79	5.73 U	5.71 U	8.12	5.69 U	1.95 J	0.511 J	13.1	5.57 U	334	5.35 U
1,2,3,4,7,8-HxCDF	ng/kg		5.73 U	5.73 U	0.488 J	5.73 U	5.71 U	0.363 J	5.69 U	0.519 J	5.72 U	0.511 J	5.57 U	9.78	5.35 U
1,2,3,7,8,9-HxCDF	ng/kg		5.73 U	5.73 U	0.603 J	5.73 U	5.71 U	0.245 J	0.392 J	0.202 J	0.198 J	0.419 J	5.57 U	1.65 J	5.35 U
Aroclor 1260	ug/kg		1.9 U	1.9 U	5.7	1.9 U	1.9 U	2.2	1.9 U	4.2 J	1.2 J	1.1 J	1.9 U	4.3	1.8 U
Aroclor 1254	ug/kg		1.9 U	1.9 U	6	1.9 U	1.9 U	3.2 J	1.9 U	2 U	1.9 U	3 J	1.9 U	5.2	1.8 U
Aroclor 1268	ug/kg		1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	2 U	1.9 U	2 U	1.9 U	3.7 U	1.9 U	1.8 U	1.8 U
Aroclor 1221	ug/kg		1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	2 U	1.9 U	2 U	1.9 U	3.7 U	1.9 U	1.8 U	1.8 U
Aroclor 5460	ug/kg		3.8 UJ	3.8 UJ	12	3.8 UJ	3.8 UJ	3.8 J	3.8 UJ	6.2 J	3.6 J	5 J	3.7 UJ	5.6 J	3.5 UJ
Aroclor 1232	ug/kg		1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	2 U	1.9 U	2 U	1.9 U	3.7 U	1.9 U	1.8 U	1.8 U
Aroclor 5442	ug/kg		3.8 UJ	3.8 UJ	3.6 U	3.8 UJ	3.8 UJ	3.9 U	3.8 UJ	3.9 UJ	3.8 UJ	7.1 UJ	3.7 UJ	3.5 UJ	3.5 UJ
Aroclor 1248	ug/kg		1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	2 U	1.9 U	2 U	1.9 U	3.7 U	1.9 U	1.8 U	1.8 U
Aroclor 1016	ug/kg		1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	2 U	1.9 U	2 U	1.9 U	3.7 U	1.9 U	1.8 U	1.8 U
Aroclor 1262	ug/kg		1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	2 U	1.9 U	2 U	1.9 U	3.7 U	1.9 U	1.8 U	1.8 U
Aroclor 1242	ug/kg		1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	2 U	1.9 U	2 U	1.9 U	3.7 U	1.9 U	1.8 U	1.8 U
Aroclor 5432	ug/kg		3.8 UJ	3.8 UJ	3.6 U	3.8 UJ	3.8 UJ	3.9 U	3.8 UJ	3.9 UJ	3.8 UJ	7.1 UJ	3.7 UJ	3.5 UJ	3.5 UJ

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-5B

		Sample Name	SL-188-SA5B-SB-4.0-5.0	SL-189-SA5B-SS-0.0-0.5	SL-189-SA5B-SB-3.0-4.0	SL-190-SA5B-SB-4.0-5.0	SL-191-SA5B-SB-4.0-5.0	SL-192-SA5B-SS-0.0-0.5	SL-192-SA5B-SB-4.0-5.0	SL-193-SA5B-SB-4.0-5.0	SL-194-SA5B-SS-0.0-0.5	SL-194-SA5B-SB-4.0-5.0	SL-195-SA5B-SB-4.0-5.0	SL-196-SA5B-SS-0.0-0.5	SL-196-SA5B-SB-4.0-5.0
		Sample Date	02/01/2011	12/16/2010	02/01/2011	02/01/2011	02/01/2011	12/16/2010	01/27/2011	01/28/2011	12/16/2010	01/28/2011	01/31/2011	12/16/2010	01/28/2011
		Lab SDG	DX046	DX026	DX046	DX046	DX046	DX026	DX045	DX045	DX026	DX045	DX046	DX026	DX045
		Start Depth	4	0	3	4	4	0	4	4	0	4	4	0	4
		End Depth	5	0.5	4	5	5	0.5	5	5	0.5	5	5	0.5	5
Chemical Name	Unit		Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
2,3,7,8-TCDD	ng/kg		1.12 U	0.047 J	1.09 U	1.13 U	1.09 U	0.126 J	1.12 U	1.18 U	1.11 U	1.15 U	1.15 U	1.05 U	1.14 U
1,2,3,7,8,9-HxCDD	ng/kg		5.59 U	1.86 J	5.47 U	5.64 U	0.215 J	2.18 J	0.093 J	0.0808 J	0.988 J	0.0513 J	0.198 J	1.22 J	5.71 U
OCDD	ng/kg		11.2 U	508 J	10.9 U	11.3 U	10.9 U	812	11.2 U	11.8 U	478	11.5 U	11.5 U	356	11.4 U
1,2,3,4,6,7,8-HpCDD	ng/kg		5.59 U	38.3	5.47 U	5.64 U	5.43 U	82.4	5.61 U	5.9 U	43.8	5.73 U	5.76 U	27.4	5.71 U
OCDF	ng/kg		11.2 U	18	10.9 U	11.3 U	10.9 U	37.2	11.2 U	11.8 U	18.9	11.5 U	11.5 UJ	10.6	11.4 U
1,2,3,4,7,8-HxCDD	ng/kg		5.59 U	0.542 J	5.47 U	5.64 U	5.43 U	1.04 J	5.61 U	5.9 U	0.463 J	5.73 U	5.76 U	0.42 J	5.71 U
1,2,3,7,8-PeCDD	ng/kg		5.59 U	0.414 J	5.47 U	5.64 U	5.43 U	0.537 J	5.61 U	5.9 U	0.25 J	5.73 U	5.76 UJ	0.351 J	5.71 U
2,3,7,8-TCDF	ng/kg		1.12 U	1.07 U	1.09 U	1.13 U	1.09 U	1.08 U	1.12 U	1.18 U	1.11 U	1.15 U	1.15 U	1.05 U	1.14 U
1,2,3,4,7,8,9-HpCDF	ng/kg		5.59 U	0.57 J	5.47 U	5.64 U	5.43 U	5.18 J	5.61 U	5.9 U	0.619 J	5.73 U	5.76 UJ	0.451 J	5.71 U
2,3,4,7,8-PeCDF	ng/kg		5.59 U	5.37 U	5.47 U	5.64 U	5.43 U	1.19 J	5.61 U	5.9 U	5.54 U	5.73 U	5.76 UJ	0.67 J	5.71 U
1,2,3,7,8-PeCDF	ng/kg		5.59 U	0.459 J	5.47 U	5.64 U	5.43 U	0.622 J	5.61 U	5.9 U	0.57 J	5.73 U	5.76 UJ	0.807 J	5.71 U
1,2,3,6,7,8-HxCDF	ng/kg		5.59 U	0.372 J	5.47 U	5.64 U	5.43 U	0.877 J	5.61 U	5.9 U	0.483 J	5.73 U	5.76 UJ	0.531 J	5.71 U
1,2,3,6,7,8-HxCDD	ng/kg		5.59 U	1.68 J	5.47 U	5.64 U	5.43 U	4.22 J	0.0505 J	0.0533 J	1.42 J	0.032 J	5.76 U	1.3 J	5.71 U
2,3,4,6,7,8-HxCDF	ng/kg		5.59 U	5.37 U	5.47 U	5.64 U	5.43 U	1.45 J	5.61 U	5.9 U	5.54 U	5.73 U	5.76 UJ	5.27 U	5.71 U
1,2,3,4,6,7,8-HpCDF	ng/kg		5.59 U	5.44	5.47 U	5.64 U	5.43 U	12.3	5.61 U	5.9 U	7.14	5.73 U	5.76 U	4.22 J	5.71 U
1,2,3,4,7,8-HxCDF	ng/kg		5.59 U	5.37 U	5.47 U	5.64 U	5.43 U	0.745 J	5.61 U	5.9 U	5.54 U	5.73 U	5.76 U	0.493 J	5.71 U
1,2,3,7,8,9-HxCDF	ng/kg		5.59 U	0.472 J	5.47 U	5.64 U	5.43 U	1.11 J	5.61 U	5.9 U	0.359 J	5.73 U	5.76 UJ	0.431 J	5.71 U
Aroclor 1260	ug/kg		1.9 U	0.86 J	1.9 U	1.9 U	1.8 U	5.5 J	1.9 U	2 U	3.9	1.2 J	2 U	4.8	1.9 U
Aroclor 1254	ug/kg		1.9 U	1.3 J	1.9 U	1.9 U	1.8 U	3.3 J	1.9 U	2 U	9.5	1.9 U	2 U	20	10
Aroclor 1268	ug/kg		1.9 U	1.8 U	1.9 U	1.9 U	1.8 U	9.1 U	1.9 U	2 U	1.9 U	1.9 U	2 U	1.8 U	1.9 U
Aroclor 1221	ug/kg		1.9 U	1.8 U	1.9 U	1.9 U	1.8 U	9.1 U	1.9 U	2 U	1.9 U	1.9 U	2 U	1.8 U	1.9 U
Aroclor 5460	ug/kg		3.7 UJ	2.7 J	3.6 UJ	3.7 UJ	3.6 UJ	18 UJ	3.7 UJ	3.9 UJ	3 J	3.8 UJ	3.8 UJ	6.1 J	3.8 UJ
Aroclor 1232	ug/kg		1.9 U	1.8 U	1.9 U	1.9 U	1.8 U	9.1 U	1.9 U	2 U	1.9 U	1.9 U	2 U	1.8 U	1.9 U
Aroclor 5442	ug/kg		3.7 UJ	3.5 UJ	3.6 UJ	3.7 UJ	3.6 UJ	18 UJ	3.7 UJ	3.9 UJ	3.7 UJ	3.8 UJ	3.8 UJ	3.5 UJ	3.8 UJ
Aroclor 1248	ug/kg		1.9 U	1.8 U	1.9 U	1.9 U	1.8 U	9.1 U	1.9 U	2 U	1.9 U	1.9 U	2 U	1.8 U	1.9 U
Aroclor 1016	ug/kg		1.9 U	1.8 U	1.9 U	1.9 U	1.8 U	9.1 U	1.9 U	2 U	1.9 U	1.9 U	2 U	1.8 U	1.9 U
Aroclor 1262	ug/kg		1.9 U	1.8 U	1.9 U	1.9 U	1.8 U	9.1 U	1.9 U	2 U	1.9 U	1.9 U	2 U	1.8 U	1.9 U
Aroclor 1242	ug/kg		1.9 U	1.8 U	1.9 U	1.9 U	1.8 U	9.1 U	1.9 U	2 U	1.9 U	1.9 U	2 U	1.8 U	1.9 U
Aroclor 5432	ug/kg		3.7 UJ	3.5 UJ	3.6 UJ	3.7 UJ	3.6 UJ	18 UJ	3.7 UJ	3.9 UJ	3.7 UJ	3.8 UJ	3.8 UJ	3.5 UJ	3.8 UJ

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-5B

	Sample Name	SL-197-SA5B-SB-4.0-5.0	SL-198-SA5B-SS-0.0-0.5	SL-198-SA5B-SB-4.0-5.0	SL-199-SA5B-SS-0.0-0.5	SL-199-SA5B-SB-4.0-5.0	SL-200-SA5B-SB-4.0-5.0	SL-201-SA5B-SB-4.0-5.0	SL-201-SA5B-SB-9.0-10.0	SL-202-SA5B-SS-0.0-0.5	SL-202-SA5B-SB-4.0-5.0	SL-202-SA5B-SB-7.0-8.0	SL-203-SA5B-SS-0.0-0.5	SL-203-SA5B-SB-4.0-5.0
	Sample Date	01/31/2011	12/16/2010	01/31/2011	12/16/2010	01/31/2011	01/31/2011	01/28/2011	01/28/2011	12/16/2010	01/28/2011	01/28/2011	12/15/2010	01/27/2011
	Lab SDG	DX046	DX026	DX046	DX026	DX046	DX046	DX045	DX045	DX026	DX046	DX046	DX024	DX045
	Start Depth	4	0	4	0	4	4	4	9	0	4	7	0	4
	End Depth	5	0.5	5	0.5	5	5	5	10	0.5	5	8	0.5	5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
2,3,7,8-TCDD	ng/kg	1.12 U	0.0909 J	1.13 U	0.07 J	1.15 U	1.15 U	1.15 U	1.12 U	0.0725 J	1.14 U	1.09 U	0.0484 J	0.0359 J
1,2,3,7,8,9-HxCDD	ng/kg	0.362 J	2.29 J	5.64 U	1.37 J	5.77 U	5.76 U	5.77 U	0.0454 J	1.31 J	5.7 U	5.43 U	0.655 J	0.619 J
OCDD	ng/kg	11.2 U	1130	11.3 U	262	11.5 U	11.5 U	11.5 U	2.89 J	559	11.4 U	10.9 U	312	53.4
1,2,3,4,6,7,8-HpCDD	ng/kg	5.6 U	82.2	5.64 U	20.7	5.77 U	5.76 U	5.77 U	5.62 U	51.5	5.7 U	5.43 U	22.3	4.23 J
OCDF	ng/kg	11.2 U	51.9	11.3 U	9.64 J	11.5 U	11.5 U	11.5 U	11.2 U	18.6	11.4 U	10.9 U	6.06 J	1.49 J
1,2,3,4,7,8-HxCDD	ng/kg	0.251 J	1.12 J	5.64 U	0.319 J	5.77 U	5.76 U	5.77 U	5.62 U	0.578 J	5.7 U	5.43 U	0.238 J	0.0922 J
1,2,3,7,8-PeCDD	ng/kg	0.317 J	0.529 J	5.64 U	0.294 J	5.77 U	5.76 U	5.77 U	5.62 U	0.351 J	5.7 U	5.43 U	0.166 J	5.81 U
2,3,7,8-TCDF	ng/kg	1.12 U	1.07 U	1.13 U	1.06 U	1.15 U	1.15 U	1.15 U	1.12 U	1.07 U	1.14 U	1.09 U	0.0825 J	0.12 J
1,2,3,4,7,8,9-HpCDF	ng/kg	0.485 J	1.12 J	5.64 U	0.423 J	5.77 U	5.76 U	5.77 U	5.62 U	0.565 J	5.7 U	5.43 U	5.45 U	5.81 U
2,3,4,7,8-PeCDF	ng/kg	0.34 J	0.642 J	5.64 U	1.44 J	5.77 U	5.76 U	5.77 U	5.62 U	0.443 J	5.7 U	5.43 U	5.45 U	0.263 J
1,2,3,7,8-PeCDF	ng/kg	0.289 J	0.544 J	5.64 U	1.78 J	5.77 U	5.76 U	5.77 U	5.62 U	0.574 J	5.7 U	5.43 U	0.483 J	0.189 J
1,2,3,6,7,8-HxCDF	ng/kg	0.24 J	0.651 J	5.64 U	0.652 J	5.77 U	5.76 U	5.77 U	5.62 U	0.366 J	5.7 U	5.43 U	0.24 J	0.126 J
1,2,3,6,7,8-HxCDD	ng/kg	0.251 J	2.67 J	5.64 U	1.26 J	5.77 U	5.76 U	5.77 U	0.0409 J	2.71 J	5.7 U	5.43 U	0.76 J	0.468 J
2,3,4,6,7,8-HxCDF	ng/kg	0.307 J	0.727 J	5.64 U	0.941 J	5.77 U	5.76 U	5.77 U	5.62 U	0.687 J	5.7 U	5.43 U	5.45 U	0.148 J
1,2,3,4,6,7,8-HpCDF	ng/kg	5.6 U	11.4	5.64 U	3.84 J	5.77 U	5.76 U	5.77 U	5.62 U	5.92	5.7 U	5.43 U	2.73 J	0.616 J
1,2,3,4,7,8-HxCDF	ng/kg	0.252 J	0.56 J	5.64 U	5.32 U	5.77 U	5.76 U	5.77 U	5.62 U	5.36 U	5.7 U	5.43 U	5.45 U	1.16 J
1,2,3,7,8,9-HxCDF	ng/kg	0.496 J	0.405 J	5.64 U	0.456 J	5.77 U	5.76 U	5.77 U	5.62 U	0.376 J	5.7 U	5.43 U	0.199 J	0.48 J
Aroclor 1260	ug/kg	1.9 U	2.6	1.9 U	13 J	2 U	2 U	2 U	1.9 U	1.8	1.9 U	1.8 U	2.5	2.6
Aroclor 1254	ug/kg	1.9 U	5.5	1.9 U	7.8 J	2 U	2 U	2 U	1.9 U	2.4	1.9 U	1.8 U	1.9	2
Aroclor 1268	ug/kg	1.9 U	1.8 U	1.9 U	3.6 U	2 U	2 U	2 U	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U	2 U
Aroclor 1221	ug/kg	1.9 U	1.8 U	1.9 U	3.6 U	2 U	2 U	2 U	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U	2 U
Aroclor 5460	ug/kg	3.7 UJ	3.2 J	3.7 UJ	9.9 J	3.8 UJ	3.8 UJ	3.8 UJ	3.7 UJ	2.2 J	3.8 UJ	3.6 UJ	2.9 J	5.6 J
Aroclor 1232	ug/kg	1.9 U	1.8 U	1.9 U	3.6 U	2 U	2 U	2 U	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U	2 U
Aroclor 5442	ug/kg	3.7 UJ	3.5 UJ	3.7 UJ	7 UJ	3.8 UJ	3.8 UJ	3.8 UJ	3.7 UJ	3.5 UJ	3.8 UJ	3.6 UJ	3.6 U	3.8 UJ
Aroclor 1248	ug/kg	1.9 U	1.8 U	1.9 U	3.6 U	2 U	2 U	2 U	1.9 U	1.8	1.9 U	1.8 U	1.9 U	2 U
Aroclor 1016	ug/kg	1.9 U	1.8 U	1.9 U	3.6 U	2 U	2 U	2 U	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U	2 U
Aroclor 1262	ug/kg	1.9 U	1.8 U	1.9 U	3.6 U	2 U	2 U	2 U	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U	2 U
Aroclor 1242	ug/kg	1.9 U	1.8 U	1.9 U	3.6 U	2 U	2 U	2 U	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U	2 U
Aroclor 5432	ug/kg	3.7 UJ	3.5 UJ	3.7 UJ	7 UJ	3.8 UJ	3.8 UJ	3.8 UJ	3.7 UJ	3.5 UJ	3.8 UJ	3.6 UJ	3.6 U	3.8 UJ

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-5B

	Sample Name	SL-203-SA5B-SB-7.5-8.5	SL-204-SA5B-SS-0.0-0.5	SL-204-SA5B-SB-4.0-5.0	SL-205-SA5B-SS-0.0-0.5	SL-205-SA5B-SB-2.5-3.5	SL-206-SA5B-SS-0.0-0.5	SL-207-SA5B-SS-0.0-0.5	SL-207-SA5B-SB-2.5-3.5	SL-208-SA5B-SS-0.0-0.5	SL-209-SA5B-SS-0.0-0.5	SL-209-SA5B-SB-4.0-5.0	SL-210-SA5B-SS-0.0-0.5	SL-210-SA5B-SB-4.0-5.0
	Sample Date	01/27/2011	12/15/2010	01/31/2011	12/16/2010	02/03/2011	12/17/2010	12/17/2010	02/03/2011	12/17/2010	12/17/2010	02/02/2011	12/17/2010	02/03/2011
	Lab SDG	DX045	DX024	DX044	DX027	DX047	DX028	DX028	DX047	DX028	DX028	DX047	DX028	DX047
	Start Depth	7.5	0	4	0	2.5	0	0	2.5	0	0	4	0	4
	End Depth	8.5	0.5	5	0.5	3.5	0.5	0.5	3.5	0.5	0.5	5	0.5	5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
2,3,7,8-TCDD	ng/kg	0.0276 J	0.0302 J	1.15 U	0.0781 J	1.13 U	0.22 J	1.04 J	1.14 U	0.177 J	0.666 J	1.15 U	0.614 J	1.09 U
1,2,3,7,8,9-HxCDD	ng/kg	0.0192 J	0.554 J	0.321 J	0.862 J	0.0483 J	8.33	28.3	0.176 J	6.31	13.1	0.146 J	11.1	0.0275 J
OCDD	ng/kg	11.4 U	179	94.1	119	11.3 U	3780	13600 J	50.1	4410 J	9010 J	2.74 J	7090 J	10.9 U
1,2,3,4,6,7,8-HpCDD	ng/kg	5.68 U	15.6	7.75	9.52	5.66 U	215	892	3.56 J	192	693	5.73 U	618	5.43 U
OCDF	ng/kg	11.4 U	10 J	2.56 J	4.61 J	11.3 U	120	264	11.4 U	42.3	231	11.5 U	222	10.9 U
1,2,3,4,7,8-HxCDD	ng/kg	5.68 U	0.204 J	0.182 J	0.266 J	5.66 U	3.45 J	13.2	0.0667 J	2.49 J	6.83	5.73 U	5.6	5.43 U
1,2,3,7,8-PeCDD	ng/kg	5.68 U	0.181 J	5.75 U	5.28 U	5.66 U	2.26 J	7.99	5.71 U	1.55 J	3.54 J	5.73 U	2.13 J	5.43 U
2,3,7,8-TCDF	ng/kg	1.14 U	1.07 U	1.15 U	1.06 U	1.13 U	1.05 U	1.53	1.14 U	1.05 U	1.82	1.15 U	1.61	1.09 U
1,2,3,4,7,8,9-HpCDF	ng/kg	5.68 U	5.36 U	5.75 U	5.28 U	0.0228 J	1.99 J	9.54	0.0641 J	0.684 J	12	0.0281 J	10.6	5.43 U
2,3,4,7,8-PeCDF	ng/kg	5.68 U	5.36 U	5.75 U	5.28 U	5.66 U	0.491 J	2.08 J	5.71 U	0.42 J	2.34 J	5.73 U	2.17 J	5.43 U
1,2,3,7,8-PeCDF	ng/kg	5.68 U	0.138 J	5.75 U	0.252 J	5.66 U	0.411 J	4.59 J	5.71 U	0.446 J	3.53 J	5.73 U	3.6 J	5.43 U
1,2,3,6,7,8-HxCDF	ng/kg	5.68 U	0.226 J	5.75 U	5.28 U	5.66 U	0.771 J	4.13 J	5.71 U	0.406 J	5.05 J	5.73 U	4.54 J	5.43 U
1,2,3,6,7,8-HxCDD	ng/kg	5.68 U	0.724 J	0.324 J	0.753 J	0.0352 J	8.35	34.4	0.186 J	6.97	26.7	0.0539 J	24.6	5.43 U
2,3,4,6,7,8-HxCDF	ng/kg	5.68 U	5.36 U	5.75 U	5.28 U	5.66 U	0.995 J	6.37	5.71 U	0.597 J	8.65	5.73 U	7.65	5.43 U
1,2,3,4,6,7,8-HpCDF	ng/kg	5.68 U	3.15 J	1.38 J	2.29 J	5.66 U	27.1	91.5	0.333 J	12	101	5.73 U	94.6	5.43 U
1,2,3,4,7,8-HxCDF	ng/kg	5.68 U	5.36 U	0.421 J	5.28 U	5.66 U	1.03 J	4.86 J	5.71 U	0.768 J	5 J	5.73 U	4.47 J	5.43 U
1,2,3,7,8,9-HxCDF	ng/kg	5.68 U	5.36 U	5.75 U	0.434 J	5.66 U	0.426 J	1.39 J	5.71 U	0.477 J	1.39 J	5.73 U	1.18 J	5.43 U
Aroclor 1260	ug/kg	1.9 U	2	2 U	1.8 U	1.9 U	1.8 U	4.4	1.9 U	0.67 J	25 J	1.9 U	30 J	1.8 U
Aroclor 1254	ug/kg	1.9 U	2.3	2 U	1.8 U	1.9 U	1.8 U	6.7	1.9 U	1.8 U	30 J	1.9 U	130 J	1.8 U
Aroclor 1268	ug/kg	1.9 U	1.8 U	2 U	1.8 U	1.9 U	1.8 U	1.8 U	1.9 U	1.8 U	3.6 U	1.9 U	3.6 U	1.8 U
Aroclor 1221	ug/kg	1.9 U	1.8 U	2 U	1.8 U	1.9 U	1.8 U	1.8 U	1.9 U	1.8 U	3.6 U	1.9 U	3.6 U	1.8 U
Aroclor 5460	ug/kg	3.7 UJ	3.8	3.8 UJ	3.5 UJ	3.7 U	3.5 UJ	5.9 J	3.8 U	3.5 UJ	35 J	3.8 UJ	36 J	3.6 U
Aroclor 1232	ug/kg	1.9 U	1.8 U	2 U	1.8 U	1.9 U	1.8 U	1.8 U	1.9 U	1.8 U	3.6 U	1.9 U	3.6 U	1.8 U
Aroclor 5442	ug/kg	3.7 UJ	3.5 U	3.8 UJ	3.5 UJ	3.7 U	3.5 UJ	3.5 UJ	3.8 U	3.5 UJ	7.1 UJ	3.8 UJ	7 UJ	3.6 U
Aroclor 1248	ug/kg	1.9 U	1.1 J	2 U	1.8 U	1.9 U	1.8 U	1.8 U	1.9 U	1.8 U	3.6 U	1.9 U	3.6 U	1.8 U
Aroclor 1016	ug/kg	1.9 U	1.8 U	2 U	1.8 U	1.9 U	1.8 U	1.8 U	1.9 U	1.8 U	3.6 U	1.9 U	3.6 U	1.8 U
Aroclor 1262	ug/kg	1.9 U	1.8 U	2 U	1.8 U	1.9 U	1.8 U	1.8 U	1.9 U	1.8 U	3.6 U	1.9 U	3.6 U	1.8 U
Aroclor 1242	ug/kg	1.9 U	1.8 U	2 U	1.8 U	1.9 U	1.8 U	1.8 U	1.9 U	1.8 U	3.6 U	1.9 U	3.6 U	1.8 U
Aroclor 5432	ug/kg	3.7 UJ	3.5 U	3.8 UJ	3.5 UJ	3.7 U	3.5 UJ	3.5 UJ	3.8 U	3.5 UJ	7.1 UJ	3.8 UJ	7 UJ	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-5B

	Sample Name	SL-211-SA5B-SS-0.0-0.5	SL-211-SA5B-SB-4.0-5.0	SL-212-SA5B-SS-0.0-0.5	SL-213-SA5B-SS-0.0-0.5	SL-214-SA5B-SS-0.0-0.5	SL-215-SA5B-SS-0.0-0.5	SL-216-SA5B-SS-0.0-0.5	SL-217-SA5B-SS-0.0-0.5	SL-219-SA5B-SS-0.0-0.5	SL-225-SA5B-SS-0.0-0.5	SL-225-SA5B-SB-2.0-3.0	SL-226-SA5B-SS-0.0-0.5	SL-227-SA5B-SS-0.0-0.5
	Sample Date	12/17/2010	02/03/2011	12/20/2010	12/20/2010	12/20/2010	12/20/2010	12/20/2010	12/20/2010	12/21/2010	12/21/2010	03/09/2011	12/21/2010	12/21/2010
	Lab SDG	DX028	DX047	DX030	DX030	DX030	DX030	DX030	DX030	DX032	DX032	DX061	DX032	DX032
	Start Depth	0	4	0	0	0	0	0	0	0	0	2	0	0
	End Depth	0.5	5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	3	0.5	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
2,3,7,8-TCDD	ng/kg	2.29	1.13 U	0.516 J	0.391 J	0.671 J	0.182 J	1.24 U	0.572 J	0.586 J	1.97	0.129 J	0.282 J	0.0686 J
1,2,3,7,8,9-HxCDD	ng/kg	35.9	0.175 J	14.4	16	16.2	3.16 J	1.56 J	21	18.2	186	0.736 J	30.8	2.34 J
OCDD	ng/kg	22700 J	4.6 J	9340 J	13200 J	16800 J	1560	473	13100 J	14500 J	123000 J	207	13100 J	1510
1,2,3,4,6,7,8-HpCDD	ng/kg	2150	5.66 U	851	1180	1200	119	34	1250	1410	10900 J	15	1570	120
OCDF	ng/kg	906 J	11.3 U	295	354	375	39	12.1 J	496	412	4090	4.31 J	558	31
1,2,3,4,7,8-HxCDD	ng/kg	19.9	5.66 U	6.98	7.85	7.98	1.56 J	0.532 J	9.95	8.06	85.8	5.79 U	13.3	1.1 J
1,2,3,7,8-PeCDD	ng/kg	8.69	5.66 U	3.46 J	3.07 J	5.05 J	0.873 J	6.19 U	5.37 J	4.32 J	34.7	5.79 U	5.07 J	0.507 J
2,3,7,8-TCDF	ng/kg	4.64	1.13 U	1.89	2.18	3.36	0.801 J	0.498 J	2.87 J	2.97	3.77	1.16 U	0.587 J	0.248 J
1,2,3,4,7,8,9-HpCDF	ng/kg	49.6	5.66 U	7.43	10	9.84	1.45 J	6.19 U	13.5	15.4	98.9	5.79 U	16.1	2.11 J
2,3,4,7,8-PeCDF	ng/kg	6.96	5.66 U	3.81 J	4.13 J	6.54	2.24 J	0.828 J	4.38 J	5.86 J	12.7	5.79 U	2.07 J	0.551 J
1,2,3,7,8-PeCDF	ng/kg	7.32	5.66 U	1.07 J	1.87 J	1.62 J	1.66 J	0.829 J	2.24 J	3.17 J	7.82	5.79 U	1.89 J	1.77 J
1,2,3,6,7,8-HxCDF	ng/kg	19.4	5.66 U	3.74 J	6.02	4.52 J	1.41 J	6.19 U	5.04 J	5.2 J	38.1	5.79 U	6.93	2.46 J
1,2,3,6,7,8-HxCDD	ng/kg	95	0.0939 J	7.52	39.9	41.7	4.84 J	1.75 J	48.8	51.4	472	1.01 J	65.7	4.68 J
2,3,4,6,7,8-HxCDF	ng/kg	34.1	5.66 U	5.92 J	10.3	2.99 J	1.47 J	6.19 U	4.34 J	9.01	78.8	5.79 U	13.2	4.85 J
1,2,3,4,6,7,8-HpCDF	ng/kg	407 J	5.66 U	104	130	126	16.4	4.6 J	164	183	1280	1.48 J	202	14.9
1,2,3,4,7,8-HxCDF	ng/kg	17.8	5.66 U	4.68 J	5.57 J	6.81	1.54 J	6.19 U	6.36 J	10.8	31.8	5.79 U	5.28 J	1.32 J
1,2,3,7,8,9-HxCDF	ng/kg	4.22 J	5.66 U	1.56 J	1.64 J	2.81 J	6.95 U	6.19 U	2.58 J	4.06 J	11.2	5.79 U	2.14 J	0.422 J
Aroclor 1260	ug/kg	69	1.9 U	44	68	140	8.7	1.5 J	60	45	21 J	2 U	1.2 J	2.4
Aroclor 1254	ug/kg	99	1.9 U	61	120	120	37 J	1.9 J	84	37	68 J	2 U	7.7	5
Aroclor 1268	ug/kg	9.6 U	1.9 U	10 U	19 U	22 U	2.4 U	2.1 U	24 U	11 U	23 U	2 U	2.1 U	2.1 U
Aroclor 1221	ug/kg	9.6 U	1.9 U	10 U	19 U	22 U	2.4 U	2.1 U	24 U	11 U	23 U	2 U	2.1 U	2.1 U
Aroclor 5460	ug/kg	60 J	3.7 U	39 J	36 J	85 J	37 J	3.1 J	45 J	25	44 U	3.8 UJ	4.1 U	4 J
Aroclor 1232	ug/kg	9.6 U	1.9 U	10 U	19 U	22 U	2.4 U	2.1 U	24 U	11 U	23 U	2 U	2.1 U	2.1 U
Aroclor 5442	ug/kg	19 UJ	3.7 U	20 UJ	37 UJ	43 UJ	4.6 UJ	4.1 UJ	46 UJ	21 U	44 U	3.8 UJ	4.1 U	4 U
Aroclor 1248	ug/kg	9.6 U	1.9 U	10 U	19 U	23	2.4 U	2.1 U	24 U	11 U	23 U	2 U	2.1 U	1.6 J
Aroclor 1016	ug/kg	9.6 U	1.9 U	10 U	19 U	22 U	2.4 U	2.1 U	24 U	11 U	23 U	2 U	2.1 U	2.1 U
Aroclor 1262	ug/kg	9.6 U	1.9 U	10 U	19 U	22 U	2.4 U	2.1 U	24 U	11 U	23 U	2 U	2.1 U	2.1 U
Aroclor 1242	ug/kg	9.6 U	1.9 U	10 U	19 U	22 U	2.4 U	2.1 U	24 U	11 U	23 U	2 U	2.1 U	2.1 U
Aroclor 5432	ug/kg	19 UJ	3.7 U	20 UJ	37 UJ	43 UJ	4.6 UJ	4.1 UJ	46 UJ	21 U	44 U	3.8 UJ	4.1 U	4 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-5B

	Sample Name	SL-227-SA5B-SB-2.5-3.5	SL-228-SA5B-SS-0.0-0.5	SL-229-SA5B-SS-0.0-0.5	SL-229-SA5B-SB-2.0-3.0	SL-230-SA5B-SS-0.0-0.5	SL-230-SA5B-SB-2.0-3.0	SL-231-SA5B-SS-0.0-0.5	SL-232-SA5B-SS-0.0-0.5	SL-233-SA5B-SS-0.0-0.5	SL-234-SA5B-SS-0.0-0.5	SL-234-SA5B-SB-2.5-3.5	SL-235-SA5B-SS-0.0-0.5	SL-236-SA5B-SS-0.0-0.5
	Sample Date	03/11/2011	12/10/2010	12/10/2010	02/03/2011	12/09/2010	02/03/2011	12/09/2010	12/10/2010	12/10/2010	12/10/2010	01/07/2011	12/10/2010	12/13/2010
	Lab SDG	DX062	DX018	DX018	DX047	DX015	DX047	DX015	DX018	DX018	DX019	DX036	DX019	DX020
	Start Depth	2.5	0	0	2	0	2	0	0	0	0	2.5	0	0
	End Depth	3.5	0.5	0.5	3	0.5	3	0.5	0.5	0.5	0.5	3.5	0.5	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
2,3,7,8-TCDD	ng/kg	0.038 J	0.0541 J	1.14 U	0.0497 J	0.2 J	1.15 U	0.0294 J	1.15 U	0.0292 J	0.0595 J	1.11 U	0.391 J	1.06 U
1,2,3,7,8,9-HxCDD	ng/kg	0.427 J	1.15 J	4.04 J	0.031 J	4.24 J	0.163 J	1.1 J	0.485 J	0.242 J	1.09 J	5.54 U	10.9	0.917 J
OCDD	ng/kg	94.6	407	1540	11 U	963	1.54 J	585	248	161	931	11.1 U	8490 J	316
1,2,3,4,6,7,8-HpCDD	ng/kg	4.73 J	42.2	122	5.51 U	91	5.73 U	37.7	23.2	13.7	82.2	5.54 U	802	28.2
OCDF	ng/kg	1.12 J	14.6	39.5	11 U	36.8	11.5 U	11.8	6.53 J	4.71 J	19.7	11.1 U	212	9.75 J
1,2,3,4,7,8-HxCDD	ng/kg	5.7 U	0.619 J	1.91 J	5.51 U	2.02 J	5.73 U	0.475 J	0.29 J	5.68 U	0.574 J	5.54 U	5.71	0.524 J
1,2,3,7,8-PeCDD	ng/kg	0.114 J	0.381 J	1.06 J	5.51 U	1.18 J	5.73 U	5.22 U	5.76 U	5.68 U	0.241 J	5.54 U	3.4 J	5.31 U
2,3,7,8-TCDF	ng/kg	0.097 J	0.459 J	1.14 U	1.1 U	1.11 U	1.15 U	1.04 U	0.0772 J	0.029 J	0.0478 J	1.11 U	0.18 J	1.06 U
1,2,3,4,7,8,9-HpCDF	ng/kg	5.7 U	8.35	3.12 J	5.51 U	1.22 J	0.0278 J	5.22 U	5.76 U	5.68 U	0.842 J	5.54 U	9.72	0.767 J
2,3,4,7,8-PeCDF	ng/kg	5.7 U	6.9 U	5.69 U	5.51 U	5.56 U	5.73 U	5.22 U	5.76 U	5.68 U	5.47 U	5.54 U	1.41 J	1.82 J
1,2,3,7,8-PeCDF	ng/kg	0.151 J	0.483 J	0.286 J	5.51 U	5.56 U	5.73 U	5.22 U	5.76 U	5.68 U	5.47 U	5.54 U	0.741 J	0.457 J
1,2,3,6,7,8-HxCDF	ng/kg	5.7 U	0.552 J	1.29 J	5.51 U	1.27 J	0.162 J	5.22 U	5.76 U	5.68 U	0.339 J	5.54 U	4.08 J	0.81 J
1,2,3,6,7,8-HxCDD	ng/kg	0.36 J	1.74 J	3.9 J	5.51 U	3.42 J	0.176 J	1.38 J	0.74 J	5.68 U	2.72 J	0.0367 J	29.8	1.21 J
2,3,4,6,7,8-HxCDF	ng/kg	5.7 U	6.9 U	1.76 J	5.51 U	1.65 J	5.73 U	5.22 U	5.76 U	5.68 U	0.55 J	5.54 U	6.71	0.695 J
1,2,3,4,6,7,8-HpCDF	ng/kg	0.482 J	7.5	16.5	5.51 U	18.3	5.73 U	5.34	3.25 J	5.68 U	7.77	5.54 U	102	4.74 J
1,2,3,4,7,8-HxCDF	ng/kg	0.309 J	1.32 J	1.05 J	5.51 U	0.904 J	5.73 U	5.22 U	5.76 U	5.68 U	0.287 J	5.54 U	2.92 J	1.14 J
1,2,3,7,8,9-HxCDF	ng/kg	0.257 J	6.9 U	5.69 U	5.51 U	5.56 U	5.73 U	5.22 U	5.76 U	5.68 U	5.47 U	5.54 U	0.879 J	0.595 J
Aroclor 1260	ug/kg	0.45	14	1.9 U	1.9 U	9.5 U	1.9 U	0.76 J	4.4	3.4 J	1.1 J	1.9 U	1.4 J	9 U
Aroclor 1254	ug/kg	1.9 U	2.3 U	1.9 U	1.9 U	55	1.9 U	1.8 U	2 U	7.3	1.3 J	1.9 U	1.9	77
Aroclor 1268	ug/kg	1.9 U	2.3 U	1.9 U	1.9 U	9.5 U	1.9 U	1.8 U	2 U	3.9 U	1.9 U	1.9 U	1.8 U	9 U
Aroclor 1221	ug/kg	1.9 U	2.3 U	1.9 U	1.9 U	9.5 U	1.9 U	1.8 U	2 U	3.9 U	1.9 U	1.9 U	1.8 U	9 U
Aroclor 5460	ug/kg	3.8 U	5.4	3.8 U	3.6 U	18 U	3.8 U	3.4 U	1.6 J	3.2 J	2.1 J	3.7 UJ	1.7 J	18 UJ
Aroclor 1232	ug/kg	1.9 U	2.3 U	1.9 U	1.9 U	9.5 U	1.9 U	1.8 U	2 U	3.9 U	1.9 U	1.9 U	1.8 U	9 U
Aroclor 5442	ug/kg	3.8 U	4.6 U	3.8 U	3.6 U	18 U	3.8 U	3.4 U	3.8 U	7.5 U	3.6 U	3.7 UJ	3.6 U	18 UJ
Aroclor 1248	ug/kg	1.9 U	2.3 U	1.9 U	1.9 U	9.5 U	1.9 U	1.8 U	1.9 J	8.6	1.9 U	1.9 U	1.8 U	9 U
Aroclor 1016	ug/kg	1.9 U	2.3 U	1.9 U	1.9 U	9.5 U	1.9 U	1.8 U	2 U	3.9 U	1.9 U	1.9 U	1.8 U	9 U
Aroclor 1262	ug/kg	1.9 U	2.3 U	1.9 U	1.9 U	9.5 U	1.9 U	1.8 U	2 U	3.9 U	1.9 U	1.9 U	1.8 U	9 U
Aroclor 1242	ug/kg	1.9 U	2.3 U	1.9 U	1.9 U	9.5 U	1.9 U	1.8 U	2 U	3.9 U	1.9 U	1.9 U	1.8 U	9 U
Aroclor 5432	ug/kg	3.8 U	4.6 U	3.8 U	3.6 U	18 U	3.8 U	3.4 U	3.8 U	7.5 U	3.6 U	3.7 UJ	3.6 U	18 UJ

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-5B

	Sample Name	SL-240-SA5B-SS-0.0-0.5	SL-240-SA5B-SB-4.0-5.0	SL-240-SA5B-SB-9.0-10.0	SL-253-SA5B-SS-0.0-0.5	SL-253-SA5B-SB-3.0-4.0	SL-254-SA5B-SS-0.0-0.5	SL-254-SA5B-SB-3.5-4.5	SL-255-SA5B-SS-0.0-0.5	SL-257-SA5B-SS-0.0-0.5	SL-259-SA5B-SB-4.0-5.0	SL-262-SA5B-SS-0.0-0.5	SL-262-SA5B-SB-4.0-5.0	SL-263-SA5B-SS-0.0-0.5
	Sample Date	12/14/2010	01/10/2011	01/10/2011	02/11/2011	01/21/2011	02/11/2011	01/21/2011	12/20/2010	12/15/2010	01/04/2011	12/15/2010	01/26/2011	12/15/2010
	Lab SDG	DX022	DX037	DX037	DX050	DX043	DX050	DX043	DX030	DX024	DX035	DX025	DX044	DX025
	Start Depth	0	4	9	0	3	0	3.5	0	0	4	0	4	0
	End Depth	0.5	5	10	0.5	4	0.5	4.5	0.5	0.5	5	0.5	5	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
2,3,7,8-TCDD	ng/kg	1.04 U	1.15 U	1.1 U	0.0705 J	1.16 U	0.0316 J	1.11 U	1.23 U	0.106 J	1.1 U	5.27	0.0982 J	1.07 U
1,2,3,7,8,9-HxCDD	ng/kg	1.48 J	1.5 J	5.52 U	1.09 J	5.78 U	1.15 J	5.53 U	1.38 J	3.15 J	0.0533 J	0.895 J	5.71 U	1.43 J
OCDD	ng/kg	972	1220	11 U	301	3.98 J	883	15.2	308	1870	11 U	214 J	11.4 U	500
1,2,3,4,6,7,8-HpCDD	ng/kg	92.3	103	5.52 U	21.1	5.78 U	49.2	5.53 U	22.4	160	5.51 U	18.8	5.71 U	46.6
OCDF	ng/kg	21.7	22.6	11 U	4.08 J	11.6 UJ	4 J	11.1 U	7.96 J	43.4	11 U	8.41 J	11.4 U	21.9
1,2,3,4,7,8-HxCDD	ng/kg	1.08 J	0.874 J	5.52 U	0.266 J	5.78 U	0.23 J	5.53 U	0.337 J	1.63 J	5.51 U	0.433 J	5.71 U	0.751 J
1,2,3,7,8-PeCDD	ng/kg	5.21 U	0.427 J	5.52 U	0.312 J	5.78 UJ	0.22 J	5.53 U	6.15 U	0.851 J	5.51 U	0.363 J	5.71 U	0.516 J
2,3,7,8-TCDF	ng/kg	1.04 U	0.0789 J	0.0177 J	1.06 U	1.16 UJ	1.04 U	0.04 J	1.23 U	0.367 J	1.1 U	0.279 J	1.14 U	0.17 J
1,2,3,4,7,8,9-HpCDF	ng/kg	5.21 U	0.825 J	5.52 U	0.218 J	5.78 UJ	0.194 J	5.53 U	6.15 U	1.86 J	5.51 U	5.27 U	5.71 U	0.971 J
2,3,4,7,8-PeCDF	ng/kg	5.21 U	5.73 U	5.52 U	5.31 U	5.78 UJ	5.19 U	5.53 U	6.15 U	0.98 J	5.51 U	0.549 J	5.71 U	0.646 J
1,2,3,7,8-PeCDF	ng/kg	5.21 U	0.398 J	5.52 U	0.211 J	5.78 UJ	0.137 J	5.53 U	0.546 J	0.723 J	5.51 U	0.395 J	5.71 U	0.696 J
1,2,3,6,7,8-HxCDF	ng/kg	5.21 U	0.463 J	5.52 U	0.156 J	5.78 UJ	0.216 J	5.53 U	6.15 U	1.16 J	5.51 U	5.27 U	5.71 U	0.741 J
1,2,3,6,7,8-HxCDD	ng/kg	3.93 J	3.83 J	5.52 U	1.02 J	5.78 U	1.35 J	5.53 U	1.5 J	4.4 J	5.51 U	0.859 J	5.71 U	2.05 J
2,3,4,6,7,8-HxCDF	ng/kg	5.21 U	0.7 J	5.52 U	0.0982 J	5.78 UJ	0.165 J	5.53 U	6.15 U	1.38 J	5.51 U	5.27 U	5.71 U	0.784 J
1,2,3,4,6,7,8-HpCDF	ng/kg	10.2	9.08	5.52 U	1.55 J	5.78 UJ	1.89 J	5.53 U	3.53 J	21.4	5.51 U	3.75 J	5.71 U	10.4
1,2,3,4,7,8-HxCDF	ng/kg	5.21 U	0.556 J	5.52 U	0.17 J	5.78 UJ	0.315 J	5.53 U	6.15 U	1.77 J	5.51 U	5.27 U	5.71 U	0.579 J
1,2,3,7,8,9-HxCDF	ng/kg	5.21 U	5.73 U	5.52 U	0.678 J	5.78 U	0.499 J	5.53 U	6.15 U	0.863 J	5.51 U	5.27 U	5.71 U	5.33 U
Aroclor 1260	ug/kg	2.2	3.9	1.9 U	1.8 U	2 U	1.8 U	1.9 U	0.76 J	0.67 J	1.9 U	2.3 J	1.9 U	15 J
Aroclor 1254	ug/kg	1.8 U	0.9 J	1.9 U	1.8 U	2 U	1.8 U	1.9 U	1 J	1.9 U	1.9 U	4.4 J	1.9 U	15 J
Aroclor 1268	ug/kg	1.8 U	1.9 U	1.9 U	1.8 U	2 U	1.8 U	1.9 U	2.1 U	1.9 U	1.9 U	1.8 U	1.9 U	3.6 U
Aroclor 1221	ug/kg	1.8 U	1.9 U	1.9 U	1.8 U	2 U	1.8 U	1.9 U	2.1 U	1.9 U	1.9 U	1.8 U	1.9 U	3.6 U
Aroclor 5460	ug/kg	4.8 J	2 J	3.6 UJ	3.5 UJ	3.8 U	3.4 UJ	3.7 U	1.5 J	3 J	3.6 U	4.4 J	3.8 UJ	41 J
Aroclor 1232	ug/kg	1.8 U	1.9 U	1.9 U	1.8 U	2 U	1.8 U	1.9 U	2.1 U	1.9 U	1.9 U	1.8 U	1.9 U	3.6 U
Aroclor 5442	ug/kg	3.4 UJ	3.8 UJ	3.6 UJ	3.5 UJ	3.8 UJ	3.4 UJ	3.7 UJ	4.1 UJ	3.7 U	3.6 U	3.5 UJ	3.8 UJ	7 UJ
Aroclor 1248	ug/kg	1.8 U	1.9 U	1.9 U	1.8 U	2 U	1.8 U	1.9 U	2.1 U	1.9 U	1.9 U	1.8 U	1.9 U	6.2 J
Aroclor 1016	ug/kg	1.8 U	1.9 U	1.9 U	1.8 U	2 U	1.8 U	1.9 U	2.1 U	1.9 U	1.9 U	1.8 U	1.9 U	3.6 U
Aroclor 1262	ug/kg	1.8 U	1.9 U	1.9 U	1.8 U	2 U	1.8 U	1.9 U	2.1 U	1.9 U	1.9 U	1.8 U	1.9 U	3.6 U
Aroclor 1242	ug/kg	1.8 U	1.9 U	1.9 U	1.8 U	2 U	1.8 U	1.9 U	2.1 U	1.9 U	1.9 U	1.8 U	1.9 U	3.6 U
Aroclor 5432	ug/kg	3.4 UJ	3.8 UJ	3.6 UJ	3.5 UJ	3.8 U	3.4 UJ	3.7 U	4.1 UJ	3.7 U	3.6 U	3.5 UJ	3.8 UJ	7 UJ

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-5B

	Sample Name	SL-263-SA5B-SB-2.0-3.0	SL-264-SA5B-SS-0.0-0.5	SL-272-SA5B-SS-0.0-0.5	SL-272-SA5B-SB-4.0-5.0	SL-273-SA5B-SS-0.0-0.5	SL-273-SA5B-SB-2.0-3.0	SL-274-SA5B-SS-0.0-0.5	SL-274-SA5B-SB-4.0-5.0	SL-275-SA5B-SS-0.0-0.5	SL-275-SA5B-SB-3.5-4.5	SL-276-SA5B-SS-0.0-0.5	SL-276-SA5B-SB-4.0-5.0	SL-277-SA5B-SS-0.0-0.5
	Sample Date	01/26/2011	12/15/2010	12/17/2010	02/04/2011	12/17/2010	02/04/2011	12/17/2010	02/03/2011	12/17/2010	02/02/2011	12/17/2010	02/01/2011	12/17/2010
	Lab SDG	DX044	DX025	DX028	DX047	DX028	DX047	DX028	DX047	DX028	DX047	DX028	DX046	DX028
	Start Depth	2	0	0	4	0	2	0	4	0	3.5	0	4	0
	End Depth	3	0.5	0.5	5	0.5	3	0.5	5	0.5	4.5	0.5	5	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
2,3,7,8-TCDD	ng/kg	1.1 U	0.0539 J	0.132 J	1.11 U	1.36	1.97	1.58	1.12 U	0.0595 J	1.16 U	0.126 J	1.09 U	0.0696 J
1,2,3,7,8,9-HxCDD	ng/kg	5.51 U	0.646 J	4.08 J	0.0654 J	22.3	22.9	24.7	0.48 J	1.57 J	0.0575 J	2.09 J	0.146 J	1.94 J
OCDD	ng/kg	11 U	198	4560 J	28.9	14000 J	15000 J	14300 J	284	646	6.96 J	1880	10.9 U	957
1,2,3,4,6,7,8-HpCDD	ng/kg	5.51 U	15.9	177	1.3 J	1170	1440	1410	15.8	40.9	5.79 U	69.6	5.46 U	52
OCDF	ng/kg	11 U	6.5 J	33.8	11.1 U	337	398	504	4.26 J	16	11.6 U	26.4	10.9 U	20.7
1,2,3,4,7,8-HxCDD	ng/kg	5.51 U	5.36 U	1.74 J	5.56 U	11.2	12.6	12.8	0.159 J	0.54 J	5.79 U	0.687 J	5.46 U	0.656 J
1,2,3,7,8-PeCDD	ng/kg	5.51 U	0.147 J	1.01 J	5.56 U	6.17	4.57 J	5.5	5.61 U	0.402 J	5.79 U	0.452 J	5.46 U	0.479 J
2,3,7,8-TCDF	ng/kg	1.1 U	1.07 U	1.05 U	1.11 U	3.14	3.93	3.79	1.12 U	0.453 J	1.16 U	0.632 J	1.09 U	0.369 J
1,2,3,4,7,8,9-HpCDF	ng/kg	5.51 U	5.36 U	0.503 J	0.028 J	17	21.8	27.1	0.204 J	0.357 J	0.0175 J	0.58 J	5.46 U	0.47 J
2,3,4,7,8-PeCDF	ng/kg	5.51 U	5.36 U	5.26 U	5.56 U	3.35 J	4.19 J	4.59 J	0.36 J	0.611 J	5.79 U	0.922 J	5.46 U	0.586 J
1,2,3,7,8-PeCDF	ng/kg	5.51 U	0.247 J	0.223 J	5.56 U	6.3	7.16	8.71	5.61 U	0.538 J	5.79 U	3.67 J	5.46 U	0.845 J
1,2,3,6,7,8-HxCDF	ng/kg	5.51 U	5.36 U	0.308 J	5.56 U	7.59	9.15	15.2	5.61 U	0.309 J	5.79 U	0.546 J	5.46 U	0.437 J
1,2,3,6,7,8-HxCDD	ng/kg	5.51 U	0.78 J	5.36	0.0513 J	41.4	52.4	58.7	0.656 J	1.68 J	0.0459 J	2.94 J	5.46 U	2.14 J
2,3,4,6,7,8-HxCDF	ng/kg	5.51 U	5.36 U	0.463 J	5.56 U	12	14.2	19.9	5.61 U	0.437 J	5.79 U	0.687 J	5.46 U	0.461 J
1,2,3,4,6,7,8-HpCDF	ng/kg	5.51 U	2.66 J	9.84	5.56 U	140	172	238	1.84 J	5.86	5.79 U	7.97	5.46 U	7.53
1,2,3,4,7,8-HxCDF	ng/kg	5.51 U	5.36 U	0.611 J	5.56 U	7.15	11.8	11.6	0.45 J	0.363 J	5.79 U	0.712 J	5.46 U	0.454 J
1,2,3,7,8,9-HxCDF	ng/kg	5.51 U	5.36 U	0.378 J	5.56 U	1.63 J	1.86 J	2.78 J	5.61 U	0.541 J	5.79 U	0.666 J	5.46 U	0.505 J
Aroclor 1260	ug/kg	1.9 U	0.61 J	1.2 J	1.9 U	52	58	70	22	1.6 J	2 U	2.6	1.9 U	0.65 J
Aroclor 1254	ug/kg	1.9 U	1.1 J	1.7 J	1.9 U	88	9.7 U	18 U	3.8 U	1.6 J	2 U	2.8	1.9 U	1.8 U
Aroclor 1268	ug/kg	1.9 U	1.8 U	1.8 U	1.9 U	9.1 U	9.7 U	18 U	3.8 U	1.8 U	2 U	1.8 U	1.9 U	1.8 U
Aroclor 1221	ug/kg	1.9 U	1.8 U	1.8 U	1.9 U	9.1 U	9.7 U	18 U	3.8 U	1.8 U	2 U	1.8 U	1.9 U	1.8 U
Aroclor 5460	ug/kg	3.6 UJ	1.6 J	4 J	3.7 U	61 J	39	55 J	17	3.5 J	3.8 UJ	4.5 J	3.6 UJ	3.5 UJ
Aroclor 1232	ug/kg	1.9 U	1.8 U	1.8 U	1.9 U	9.1 U	9.7 U	18 U	3.8 U	1.8 U	2 U	1.8 U	1.9 U	1.8 U
Aroclor 5442	ug/kg	3.6 UJ	3.5 UJ	3.5 UJ	3.7 U	18 UJ	19 U	36 UJ	7.4 U	3.5 UJ	3.8 UJ	3.4 UJ	3.6 UJ	3.5 UJ
Aroclor 1248	ug/kg	1.9 U	0.73 J	1.8 U	1.9 U	9.1 U	9.7 U	18 U	3.8 U	1.8 U	2 U	1.8 U	1.9 U	1.8 U
Aroclor 1016	ug/kg	1.9 U	1.8 U	1.8 U	1.9 U	9.1 U	9.7 U	18 U	3.8 U	1.8 U	2 U	1.8 U	1.9 U	1.8 U
Aroclor 1262	ug/kg	1.9 U	1.8 U	1.8 U	1.9 U	9.1 U	9.7 U	18 U	3.8 U	1.8 U	2 U	1.8 U	1.9 U	1.8 U
Aroclor 1242	ug/kg	1.9 U	1.8 U	1.8 U	1.9 U	9.1 U	9.7 U	18 U	3.8 U	1.8 U	2 U	1.8 U	1.9 U	1.8 U
Aroclor 5432	ug/kg	3.6 UJ	3.5 UJ	3.5 UJ	3.7 U	18 UJ	19 U	36 UJ	7.4 U	3.5 UJ	3.8 UJ	3.4 UJ	3.6 UJ	3.5 UJ

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-5B

	Sample Name	SL-277-SA5B-SB-2.5-3.5	SL-278-SA5B-SS-0.0-0.5	SL-278-SA5B-SB-2.0-3.0	SL-279-SA5B-SS-0.0-0.5	SL-279-SA5B-SB-2.5-3.5	SL-280-SA5B-SS-0.0-0.5	SL-280-SA5B-SB-4.0-5.0	SL-280-SA5B-SB-9.0-10.0	SL-281-SA5B-SS-0.0-0.5	SL-281-SA5B-SB-4.0-5.0	SL-281-SA5B-SB-8.0-9.0	SL-282-SA5B-SS-0.0-0.5	SL-282-SA5B-SB-4.0-5.0
	Sample Date	02/01/2011	12/17/2010	02/01/2011	12/17/2010	02/01/2011	12/08/2010	01/18/2011	01/18/2011	12/08/2010	12/17/2010	12/17/2010	12/08/2010	12/17/2010
	Lab SDG	DX046	DX028	DX046	DX028	DX046	DX015	DX041	DX041	DX015	DX029	DX029	DX015	DX029
	Start Depth	2.5	0	2	0	2.5	0	4	9	0	4	8	0	4
	End Depth	3.5	0.5	3	0.5	3.5	0.5	5	10	0.5	5	9	0.5	5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
2,3,7,8-TCDD	ng/kg	1.12 U	0.065 J	1.1 U	0.0748 J	1.1 U	1.09 U	1.11 U	1.18 U	1.11 U	1.19 U	1.14 U	1.08 U	1.09 U
1,2,3,7,8,9-HxCDD	ng/kg	5.61 U	1.45 J	5.49 U	1.11 J	5.51 U	5.46 U	5.56 U	5.92 U	5.55 U	5.97 U	5.71 U	5.41 U	5.47 U
OCDD	ng/kg	11.2 U	459	5.02 J	567	11 U	227	11.1 U	11.8 U	97.1	11.9 U	11.4 U	186	13.4
1,2,3,4,6,7,8-HpCDD	ng/kg	5.61 U	23.1	5.49 U	30	5.51 U	15.6	5.56 U	5.92 U	9.51	5.97 U	5.71 U	12.4	5.47 U
OCDF	ng/kg	11.2 U	7.83 J	11 U	10.2 J	11 U	4.77 J	11.1 U	11.8 U	4.58 J	11.9 U	11.4 U	3.76 J	10.9 U
1,2,3,4,7,8-HxCDD	ng/kg	5.61 U	0.529 J	5.49 U	0.415 J	5.51 U	5.46 U	5.56 U	5.92 U	5.55 U	5.97 U	5.71 U	5.41 U	5.47 U
1,2,3,7,8-PeCDD	ng/kg	5.61 U	0.424 J	5.49 U	0.379 J	5.51 U	5.46 U	5.56 U	5.92 U	5.55 U	5.97 U	5.71 U	5.41 U	5.47 U
2,3,7,8-TCDF	ng/kg	1.12 U	0.329 J	1.1 U	0.238 J	1.1 U	1.09 U	1.11 U	1.18 U	1.11 U	1.19 U	1.14 U	1.08 U	1.09 U
1,2,3,4,7,8,9-HpCDF	ng/kg	5.61 U	0.441 J	5.49 U	0.348 J	5.51 U	5.46 U	5.56 U	5.92 U	5.55 U	5.97 U	5.71 U	5.41 U	5.47 U
2,3,4,7,8-PeCDF	ng/kg	5.61 U	0.676 J	5.49 U	5.36 U	5.51 U	5.46 U	5.56 U	5.92 U	5.55 U	5.97 U	5.71 U	5.41 U	5.47 U
1,2,3,7,8-PeCDF	ng/kg	5.61 U	0.685 J	5.49 U	0.443 J	5.51 U	5.46 U	5.56 U	5.92 U	5.55 U	5.97 U	5.71 U	5.41 U	5.47 U
1,2,3,6,7,8-HxCDF	ng/kg	5.61 U	0.418 J	5.49 U	0.269 J	5.51 U	5.46 U	5.56 U	5.92 U	5.55 U	5.97 U	5.71 U	5.41 U	5.47 U
1,2,3,6,7,8-HxCDD	ng/kg	5.61 U	1.33 J	5.49 U	1.21 J	5.51 U	0.685 J	5.56 U	5.92 U	0.412 J	5.97 U	5.71 U	0.344 J	5.47 U
2,3,4,6,7,8-HxCDF	ng/kg	5.61 U	0.561 J	5.49 U	0.337 J	5.51 U	5.46 U	5.56 U	5.92 U	5.55 U	5.97 U	5.71 U	5.41 U	5.47 U
1,2,3,4,6,7,8-HpCDF	ng/kg	5.61 U	3.25 J	5.49 U	4.86 J	5.51 U	5.46 U	5.56 U	5.92 U	5.55 U	5.97 U	5.71 U	5.41 U	5.47 U
1,2,3,4,7,8-HxCDF	ng/kg	5.61 U	0.417 J	5.49 U	0.372 J	5.51 U	5.46 U	5.56 U	5.92 U	5.55 U	5.97 U	5.71 U	5.41 U	5.47 U
1,2,3,7,8,9-HxCDF	ng/kg	5.61 U	0.558 J	5.49 U	0.417 J	5.51 U	5.46 U	5.56 U	5.92 U	5.55 U	5.97 U	5.71 U	5.41 U	5.47 U
Aroclor 1260	ug/kg	1.9 U	4.4 J	1.9 U	9.1 J	1.9 U	0.86 J	1.9 U	2 U	1.3 J	2 U	1.9 U	0.79 J	93 U
Aroclor 1254	ug/kg	1.9 U	8.1 J	1.9 U	1.7 J	1.9 U	0.93 J	1.9 U	2 U	1.9 J	0.52 J	0.71 J	0.5 J	93 U
Aroclor 1268	ug/kg	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U	2 U	1.9 U	2 U	1.9 U	1.8 U	93 U
Aroclor 1221	ug/kg	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U	2 U	1.9 U	2 U	1.9 U	1.8 U	93 U
Aroclor 5460	ug/kg	3.7 UJ	16 J	3.6 UJ	4 J	3.6 UJ	3.6 U	3.7 U	3.9 U	7.2 J	3.9 UJ	3.8 UJ	1.3 J	180 UJ
Aroclor 1232	ug/kg	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U	2 U	1.9 U	2 U	1.9 U	1.8 U	93 U
Aroclor 5442	ug/kg	3.7 UJ	3.5 UJ	3.6 UJ	3.5 UJ	3.6 UJ	3.6 U	3.7 U	3.9 U	3.7 U	3.9 UJ	3.8 UJ	3.6 U	180 UJ
Aroclor 1248	ug/kg	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U	2 U	1.9 U	2 U	1.9 U	1.8 U	93 U
Aroclor 1016	ug/kg	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U	2 U	1.9 U	2 U	1.9 U	1.8 U	93 U
Aroclor 1262	ug/kg	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U	2 U	1.9 U	2 U	1.9 U	1.8 U	93 U
Aroclor 1242	ug/kg	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U	2 U	1.9 U	2 U	1.9 U	1.8 U	93 U
Aroclor 5432	ug/kg	3.7 UJ	3.5 UJ	3.6 UJ	3.5 UJ	3.6 UJ	3.6 U	3.7 U	3.9 U	3.7 U	3.9 UJ	3.8 UJ	3.6 U	180 UJ

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-5B

	Sample Name	SL-282-SA5B-SB-7.0-8.0	SL-283-SA5B-SS-0.0-0.5	SL-283-SA5B-SB-4.0-5.0	SL-283-SA5B-SB-9.0-10.0	SL-284-SA5B-SS-0.0-0.5	SL-285-SA5B-SS-0.0-0.5	SL-286-SA5B-SS-0.0-0.5	SL-287-SA5B-SS-0.0-0.5	SL-287-SA5B-SB-4.0-5.0	SL-287-SA5B-SB-9.0-10.0	SL-288-SA5B-SS-0.0-0.5	SL-289-SA5B-SS-0.0-0.5	SL-290-SA5B-SS-0.0-0.5
	Sample Date	12/17/2010	12/08/2010	01/18/2011	01/18/2011	12/16/2010	12/16/2010	12/16/2010	12/10/2010	01/19/2011	01/19/2011	12/10/2010	02/11/2011	12/10/2010
	Lab SDG	DX029	DX015	DX041	DX041	DX027	DX027	DX027	DX019	DX040	DX040	DX019	DX050	DX019
	Start Depth	7	0	4	9	0	0	0	0	4	9	0	0	0
	End Depth	8	0.5	5	10	0.5	0.5	0.5	0.5	5	10	0.5	0.5	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
2,3,7,8-TCDD	ng/kg	1.1 U	1.09 U	1.13 U	1.13 U	0.321 J	0.376 J	0.24 J	0.0338 J	1.12 U	1.04 U	0.0189 J	0.0605 J	0.0419 J
1,2,3,7,8,9-HxCDD	ng/kg	5.48 U	5.46 U	5.63 U	5.66 U	22.3	16.4	11.8	0.811 J	0.0796 J	0.223 J	5.22 U	1.41 J	0.393 J
OCDD	ng/kg	11 U	191	151	45.5	9210 J	7290 J	6230 J	486	134	10.4 U	21.7	1180	428
1,2,3,4,6,7,8-HpCDD	ng/kg	5.48 U	14.6	18.3	4.72 J	993	840	522	34.4	6.91	5.22 U	2.27 J	87.9	22.2
OCDF	ng/kg	11 U	5.04 J	11.3 U	11.3 U	348	252	143	8.6 J	11.2 U	10.4 U	10.4 U	36.2	11.5
1,2,3,4,7,8-HxCDD	ng/kg	5.48 U	5.46 U	5.63 U	5.66 U	10.4	7.8	5.93	0.364 J	5.6 U	5.22 U	5.22 UJ	0.761 J	0.247 J
1,2,3,7,8-PeCDD	ng/kg	5.48 U	5.46 U	5.63 U	5.66 U	4.68 J	3.72 J	3.28 J	0.199 J	5.6 U	5.22 U	5.22 UJ	0.406 J	0.18 J
2,3,7,8-TCDF	ng/kg	1.1 U	1.09 U	1.13 U	1.13 U	1.14 U	1.87	1.17 U	0.0571 J	0.0175 J	0.0341 J	1.04 UJ	1.06 U	0.0309 J
1,2,3,4,7,8,9-HpCDF	ng/kg	5.48 U	5.46 U	5.63 U	5.66 U	9.87	8.62	5.96	0.479 J	5.6 U	5.22 U	5.22 U	1.04 J	5.36 U
2,3,4,7,8-PeCDF	ng/kg	5.48 U	5.46 U	5.63 U	5.66 U	2.12 J	2.94 J	2.96 J	5.41 U	5.6 U	5.22 U	5.22 U	0.574 J	5.36 U
1,2,3,7,8-PeCDF	ng/kg	5.48 U	5.46 U	5.63 U	5.66 U	3.31 J	5.76	5.8 J	5.41 U	5.6 U	5.22 U	5.22 UJ	0.25 J	5.36 U
1,2,3,6,7,8-HxCDF	ng/kg	5.48 U	5.46 U	5.63 U	5.66 U	5.18 J	4.21 J	4.15 J	0.319 J	5.6 U	5.22 U	5.22 U	0.971 J	5.36 U
1,2,3,6,7,8-HxCDD	ng/kg	5.48 U	0.495 J	0.386 J	0.356 J	42.3	33.3	23.6	0.948 J	5.6 U	0.174 J	5.22 U	2.58 J	0.776 J
2,3,4,6,7,8-HxCDF	ng/kg	5.48 U	5.46 U	5.63 U	5.66 U	8.68	5.49	4.36 J	5.41 U	5.6 U	5.22 U	5.22 U	0.766 J	5.36 U
1,2,3,4,6,7,8-HpCDF	ng/kg	5.48 U	5.46 U	5.63 U	5.66 U	131	108	65.7	4.73 J	5.6 U	5.22 U	5.22 U	13.7	3.91 J
1,2,3,4,7,8-HxCDF	ng/kg	5.48 U	5.46 U	5.63 U	5.66 U	4.17 J	3.59 J	3.62 J	0.272 J	5.6 U	5.22 U	5.22 U	1.29 J	0.278 J
1,2,3,7,8,9-HxCDF	ng/kg	5.48 U	5.46 U	5.63 U	5.66 U	1.41 J	1.1 J	1.28 J	5.41 U	5.6 U	5.22 U	5.22 U	0.444 J	5.36 U
Aroclor 1260	ug/kg	1.9 U	0.47 J	1.5 J	3.8 U	17	75	55	6.2	1.9 U	1.8 U	3.8 J	0.49 J	1.8 U
Aroclor 1254	ug/kg	0.62 J	0.59 J	2.1 J	3.7 J	22	29	24	1.8 U	1.9 U	1.8 U	1.2 J	1.6 J	1.8 U
Aroclor 1268	ug/kg	1.9 U	1.9 U	3.8 U	3.8 U	1.9 U	9.3 U	10 U	1.8 U	1.9 U	1.8 U	1.8 U	1.8 U	1.8 U
Aroclor 1221	ug/kg	1.9 U	1.9 U	3.8 U	3.8 U	1.9 U	9.3 U	10 U	1.8 U	1.9 U	1.8 U	1.8 U	1.8 U	1.8 U
Aroclor 5460	ug/kg	3.6 UJ	3.6 U	7.4 U	7.5 U	44 J	43 J	26 J	1.9 J	3.7 UJ	3.4 UJ	2.7 J	3.5 UJ	3.5 U
Aroclor 1232	ug/kg	1.9 U	1.9 U	3.8 U	3.8 U	1.9 U	9.3 U	10 U	1.8 U	1.9 U	1.8 U	1.8 U	1.8 U	1.8 U
Aroclor 5442	ug/kg	3.6 UJ	3.6 U	7.4 U	7.5 U	3.7 UJ	18 UJ	19 UJ	3.6 U	3.7 UJ	3.4 UJ	3.4 U	3.5 UJ	3.5 U
Aroclor 1248	ug/kg	1.9 U	1.9 U	3.8 U	3.8 U	1.9 U	9.3 U	10 U	1.8 U	1.9 U	1.8 U	1.8 UJ	1.8 U	1.8 U
Aroclor 1016	ug/kg	1.9 U	1.9 U	3.8 U	3.8 U	1.9 U	9.3 U	10 U	1.8 U	1.9 U	1.8 U	1.8 U	1.8 U	1.8 U
Aroclor 1262	ug/kg	1.9 U	1.9 U	3.8 U	3.8 U	1.9 U	9.3 U	10 U	1.8 U	1.9 U	1.8 U	1.8 U	1.8 U	1.8 U
Aroclor 1242	ug/kg	1.9 U	1.9 U	3.8 U	3.8 U	1.9 U	9.3 U	10 U	1.8 U	1.9 U	1.8 U	1.8 U	1.8 U	1.8 U
Aroclor 5432	ug/kg	3.6 UJ	3.6 U	7.4 U	7.5 U	3.7 UJ	18 UJ	19 UJ	3.6 U	3.7 UJ	3.4 UJ	3.4 U	3.5 UJ	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-5B

	Sample Name	SL-291-SA5B-SS-0.0-0.5	SL-292-SA5B-SS-0.0-0.5	SL-293-SA5B-SS-0.0-0.5	SL-294-SA5B-SS-0.0-0.5	SL-294-SA5B-SB-4.0-5.0	SL-294-SA5B-SB-9.0-10.0	SL-295-SA5B-SS-0.0-0.5	SL-295-SA5B-SB-4.0-5.0	SL-295-SA5B-SB-9.0-10.0	SL-296-SA5B-SS-0.0-0.5	SL-296-SA5B-SB-4.0-5.0	SL-296-SA5B-SB-9.0-10.0	SL-297-SA5B-SS-0.0-0.5
	Sample Date	12/09/2010	12/09/2010	12/09/2010	12/08/2010	01/20/2011	01/20/2011	12/08/2010	01/18/2011	01/18/2011	12/08/2010	01/18/2011	01/18/2011	12/08/2010
	Lab SDG	DX016	DX015	DX015	DX016	DX042	DX042	DX015	DX041	DX041	DX015	DX041	DX041	DX015
	Start Depth	0	0	0	0	4	9	0	4	9	0	4	9	0
	End Depth	0.5	0.5	0.5	0.5	5	10	0.5	5	10	0.5	5	10	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
2,3,7,8-TCDD	ng/kg	0.179 J	0.0537 J	0.028 J	0.0306 J	1.12 U	1.11 U	1.1 U	1.14 U	1.17 U	1.09 U	1.1 U	1.1 U	0.0905 J
1,2,3,7,8,9-HxCDD	ng/kg	8.22	3.39 J	1.6 J	0.419 J	0.348 J	2.14 J	5.49 U	5.71 U	5.85 U	5.45 U	5.49 U	5.51 U	0.496 J
OCDD	ng/kg	2250	4430 J	1060	154	212 J	492	61.4	11.4 U	11.7 U	62.9	43.5	27.9	169
1,2,3,4,6,7,8-HpCDD	ng/kg	205	265	81.7	12.4	16.9 J	45.8	6.07	5.71 U	5.85 U	6.14	4.66 J	1.95 J	14.1
OCDF	ng/kg	84.7	153	38.9	3.76 J	3.05 J	16.2	11 U	11.4 U	11.7 U	10.9 U	11 U	11 U	5.29 J
1,2,3,4,7,8-HxCDD	ng/kg	3.84 J	1.68 J	0.724 J	0.153 J	5.61 U	0.847 J	5.49 U	5.71 U	5.85 U	5.45 U	5.49 U	5.51 U	5.57 U
1,2,3,7,8-PeCDD	ng/kg	2.14 J	0.798 J	5.59 U	0.159 J	5.61 U	0.571 J	5.49 U	5.71 U	5.85 U	5.45 U	5.49 U	5.51 U	5.57 U
2,3,7,8-TCDF	ng/kg	0.141 J	1.07 U	1.12 U	0.0293 J	1.12 U	1.11 U	1.1 U	1.14 U	1.17 U	1.09 U	1.1 U	1.1 U	1.11 U
1,2,3,4,7,8,9-HpCDF	ng/kg	2.41 J	3.17 J	5.59 U	0.172 J	5.61 UJ	0.655 J	5.49 U	5.71 U	5.85 U	5.45 U	5.49 U	5.51 U	5.57 U
2,3,4,7,8-PeCDF	ng/kg	0.747 J	5.33 U	5.59 U	0.163 J	5.61 UJ	5.56 U	5.49 U	5.71 U	5.85 U	5.45 U	5.49 U	5.51 U	5.57 U
1,2,3,7,8-PeCDF	ng/kg	0.43 J	5.33 U	5.59 U	0.0523 J	5.61 U	0.216 J	5.49 U	5.71 U	5.85 U	5.45 U	5.49 U	5.51 U	5.57 U
1,2,3,6,7,8-HxCDF	ng/kg	1.99 J	1.42 J	5.59 U	0.136 J	5.61 U	0.542 J	5.49 U	5.71 U	5.85 U	5.45 U	5.49 U	5.51 U	5.57 U
1,2,3,6,7,8-HxCDD	ng/kg	7.39	7.6	2.6 J	0.468 J	0.464 J	1.8 J	0.384 J	5.71 U	5.85 U	5.45 U	5.49 U	5.51 U	0.689 J
2,3,4,6,7,8-HxCDF	ng/kg	2.95 J	1.65 J	5.59 U	0.244 J	5.61 U	0.862 J	5.49 U	5.71 U	5.85 U	5.45 U	5.49 U	5.51 U	5.57 U
1,2,3,4,6,7,8-HpCDF	ng/kg	36.6	43	11.7	2.04 J	5.61 UJ	7.26	5.49 U	5.71 U	5.85 U	5.45 U	5.49 U	5.51 U	5.57 U
1,2,3,4,7,8-HxCDF	ng/kg	1.55 J	2.03 J	5.59 U	0.165 J	5.61 U	0.516 J	5.49 U	5.71 U	5.85 U	5.45 U	5.49 U	5.51 U	5.57 U
1,2,3,7,8,9-HxCDF	ng/kg	0.409 J	5.33 U	5.59 U	0.136 J	5.61 UJ	0.459 J	5.49 U	5.71 U	5.85 U	5.45 U	5.49 U	5.51 U	5.57 U
Aroclor 1260	ug/kg	2.5	1.8 U	1.1 J	0.8 J	1.9 U	1.9 U	0.6 J	1.9 U	2 U	0.59 J	9.3 U	1.9 U	0.68 J
Aroclor 1254	ug/kg	1.8 U	1.8 U	0.99 J	1.8 U	0.72 J	0.65 J	0.41 J	1.9 U	0.85 J	1.9 U	9.3 U	3 J	1.1 J
Aroclor 1268	ug/kg	1.8 U	1.8 U	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U	2 U	1.9 U	9.3 U	1.9 U	1.9 U
Aroclor 1221	ug/kg	1.8 U	1.8 U	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U	2 U	1.9 U	9.3 U	1.9 U	1.9 U
Aroclor 5460	ug/kg	2.4 J	3.5 U	3.7 U	1.6 J	3.7 U	3.7 U	3.6 U	3.8 U	3.9 U	1.6 J	18 U	3.6 U	8.9
Aroclor 1232	ug/kg	1.8 U	1.8 U	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U	2 U	1.9 U	9.3 U	1.9 U	1.9 U
Aroclor 5442	ug/kg	3.5 UJ	3.5 U	3.7 U	3.6 UJ	3.7 U	3.7 U	3.6 U	3.8 U	3.9 U	3.6 U	18 U	3.6 U	3.7 U
Aroclor 1248	ug/kg	1.8 U	1.8 U	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U	2 U	1.9 U	9.3 U	1.9 U	1.9 U
Aroclor 1016	ug/kg	1.8 U	1.8 U	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U	2 U	1.9 U	9.3 U	1.9 U	1.9 U
Aroclor 1262	ug/kg	1.8 U	1.8 U	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U	2 U	1.9 U	9.3 U	1.9 U	1.9 U
Aroclor 1242	ug/kg	1.8 U	1.8 U	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U	2 U	1.9 U	9.3 U	1.9 U	1.9 U
Aroclor 5432	ug/kg	3.5 UJ	3.5 U	3.7 U	3.6 UJ	3.7 U	3.7 U	3.6 U	3.8 U	3.9 U	3.6 U	18 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-5B

	Sample Name	SL-297-SA5B-SB-4.0-5.0	SL-297-SA5B-SB-7.0-8.0	SL-298-SA5B-SS-0.0-0.5	SL-298-SA5B-SB-4.0-5.0	SL-298-SA5B-SB-9.0-10.0	SL-299-SA5B-SS-0.0-0.5	SL-300-SA5B-SS-0.0-0.5	SL-301-SA5B-SS-0.0-0.5	SL-301-SA5B-SB-4.0-5.0	SL-301-SA5B-SB-7.5-8.5	SL-302-SA5B-SS-0.0-0.5	SL-303-SA5B-SS-0.0-0.5	SL-304-SA5B-SS-0.0-0.5
	Sample Date	12/15/2010	12/15/2010	01/05/2011	12/15/2010	12/15/2010	12/10/2010	12/10/2010	12/13/2010	01/13/2011	01/13/2011	12/15/2010	12/15/2010	12/16/2010
	Lab SDG	DX025	DX025	DX035	DX025	DX025	DX018	DX018	DX020	DX037	DX037	DX025	DX025	DX027
	Start Depth	4	7	0	4	9	0	0	0	4	7.5	0	0	0
	End Depth	5	8	0.5	5	10	0.5	0.5	0.5	5	8.5	0.5	0.5	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
2,3,7,8-TCDD	ng/kg	1.15 U	1.2 U	1.09 U	1.13 U	1.06 U	1.16 U	0.0211 J	0.205 J	1.12 U	1.16 U	1.13 U	1.17 U	0.127 J
1,2,3,7,8,9-HxCDD	ng/kg	5.76 U	6 U	0.3 J	5.67 U	5.32 U	5.79 U	6.03 U	5.87	0.156 J	5.8 U	4.26 J	1.47 J	1.62 J
OCDD	ng/kg	3.8 J	12 U	42.4	2.4 J	10.6 U	83.1	110	2320	11.2 U	11.6 U	1370	203	491
1,2,3,4,6,7,8-HpCDD	ng/kg	5.76 U	6 U	4.47 J	5.67 U	5.32 U	6.9	8.82	233	5.61 U	5.8 U	172	15.5	40.4
OCDF	ng/kg	11.5 U	12 U	1.23 J	11.3 U	10.6 U	11.6 U	2.83 J	95.2	11.2 U	11.6 U	32.9	6.24 J	15.1
1,2,3,4,7,8-HxCDD	ng/kg	5.76 U	6 U	5.45 U	5.67 U	5.32 U	5.79 U	6.03 U	2.77 J	5.61 U	5.8 U	1.86 J	5.84 U	0.51 J
1,2,3,7,8-PeCDD	ng/kg	5.76 U	0.0828 J	5.45 U	0.0692 J	0.0575 J	5.79 U	6.03 U	5.48 U	0.035 J	5.8 U	0.963 J	0.178 J	0.451 J
2,3,7,8-TCDF	ng/kg	0.0361 J	1.2 U	1.09 U	1.13 U	0.0552 J	0.0339 J	0.0409 J	1.91	1.12 U	1.16 U	0.483 J	0.0952 J	1.06 U
1,2,3,4,7,8,9-HpCDF	ng/kg	5.76 U	6 U	5.45 U	5.67 U	5.32 U	5.79 U	6.03 U	3.98 J	5.61 U	5.8 U	1.29 J	5.84 U	0.595 J
2,3,4,7,8-PeCDF	ng/kg	5.76 U	6 U	5.45 U	5.67 U	5.32 U	5.79 U	6.03 U	3.89 J	5.61 U	5.8 U	1.07 J	5.84 U	5.31 U
1,2,3,7,8-PeCDF	ng/kg	5.76 U	6 U	0.163 J	5.67 U	5.32 U	5.79 U	6.03 U	3.84 J	5.61 U	5.8 U	0.827 J	0.221 J	0.605 J
1,2,3,6,7,8-HxCDF	ng/kg	5.76 U	6 U	0.141 J	5.67 U	5.32 U	5.79 U	6.03 U	3.15 J	5.61 U	5.8 U	1.06 J	5.84 U	0.454 J
1,2,3,6,7,8-HxCDD	ng/kg	5.76 U	6 U	0.333 J	5.67 U	5.32 U	5.79 U	6.03 U	8.03	5.61 U	5.8 U	6.71	1.31 J	1.9 J
2,3,4,6,7,8-HxCDF	ng/kg	5.76 U	6 U	5.45 U	5.67 U	5.32 U	5.79 U	6.03 U	2.78 J	5.61 U	5.8 U	1.37 J	5.84 U	5.31 U
1,2,3,4,6,7,8-HpCDF	ng/kg	5.76 U	6 U	0.767 J	5.67 U	5.32 U	5.79 U	6.03 U	36.9	5.61 U	5.8 U	15.3	1.93 J	5.87
1,2,3,4,7,8-HxCDF	ng/kg	5.76 U	6 U	5.45 U	5.67 U	5.32 U	5.79 U	6.03 U	3.63 J	5.61 U	5.8 U	0.88 J	5.84 U	5.31 U
1,2,3,7,8,9-HxCDF	ng/kg	5.76 U	6 U	5.45 U	5.67 U	5.32 U	5.79 U	6.03 U	1.07 J	5.61 U	5.8 U	5.63 U	1.27 J	0.506 J
Aroclor 1260	ug/kg	3.5	2 U	1.9 U	1.9 U	1.8 U	2 U	1 J	19 U	1.9 U	2 U	2.3	1.4 J	0.55 J
Aroclor 1254	ug/kg	2 U	2 U	0.59 J	1.9 U	1.8 U	2 U	1.2 J	100	1.9 U	2 U	1.9 U	4.5	0.46 J
Aroclor 1268	ug/kg	2 U	2 U	1.9 U	1.9 U	1.8 U	2 U	2.1 U	19 U	1.9 U	2 U	1.9 U	2 U	1.8 U
Aroclor 1221	ug/kg	2 U	2 U	1.9 U	1.9 U	1.8 U	2 U	2.1 U	19 U	1.9 U	2 U	1.9 U	2 U	1.8 U
Aroclor 5460	ug/kg	3.8 UJ	4 UJ	1.6 J	3.7 UJ	3.5 UJ	3.8 U	4 U	110 J	3.7 UJ	3.8 UJ	6.6 J	1.5 J	3.5 UJ
Aroclor 1232	ug/kg	2 U	2 U	1.9 U	1.9 U	1.8 U	2 U	2.1 U	19 U	1.9 U	2 U	1.9 U	2 U	1.8 U
Aroclor 5442	ug/kg	3.8 UJ	4 UJ	3.6 U	3.7 UJ	3.5 UJ	3.8 U	4 U	36 UJ	3.7 UJ	3.8 UJ	3.7 UJ	3.9 UJ	3.5 UJ
Aroclor 1248	ug/kg	2 U	2 U	1.9 U	1.9 U	1.8 U	2 U	2.4	83	1.9 U	2 U	1.9 U	2 U	1.8 U
Aroclor 1016	ug/kg	2 U	2 U	1.9 U	1.9 U	1.8 U	2 U	2.1 U	19 U	1.9 U	2 U	1.9 U	2 U	1.8 U
Aroclor 1262	ug/kg	2 U	2 U	1.9 U	1.9 U	1.8 U	2 U	2.1 U	19 U	1.9 U	2 U	1.9 U	2 U	1.8 U
Aroclor 1242	ug/kg	2 U	2 U	1.9 U	1.9 U	1.8 U	2 U	2.1 U	19 U	1.9 U	2 U	1.9 U	2 U	1.8 U
Aroclor 5432	ug/kg	3.8 UJ	4 UJ	3.6 U	3.7 UJ	3.5 UJ	3.8 U	4 U	36 UJ	3.7 UJ	3.8 UJ	3.7 UJ	3.9 UJ	3.5 UJ

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-5B

		Sample Name	SL-304-SA5B-SB-3.0-4.0	SL-306-SA5B-SS-0.0-0.5	SL-307-SA5B-SS-0.0-0.5	SL-307-SA5B-SB-4.0-5.0	SL-307-SA5B-SB-9.0-10.0	SL-307-SA5B-SB-14.0-15.0	SL-308-SA5B-SS-0.0-0.5	SL-308-SA5B-SB-4.0-5.0	SL-308-SA5B-SB-9.0-10.0	SL-308-SA5B-SB-14.0-15.0	SL-309-SA5B-SS-0.0-0.5	SL-310-SA5B-SS-0.0-0.5	SL-311-SA5B-SS-0.0-0.5
		Sample Date	03/09/2011	12/09/2010	12/08/2010	01/21/2011	01/21/2011	01/21/2011	12/08/2010	01/21/2011	01/21/2011	01/21/2011	12/14/2010	12/14/2010	12/14/2010
		Lab SDG	DX061	DX016	DX016	DX043	DX043	DX043	DX015	DX043	DX043	DX043	DX022	DX022	DX022
		Start Depth	3	0	0	4	9	14	0	4	9	14	0	0	0
		End Depth	4	0.5	0.5	5	10	15	0.5	5	10	15	0.5	0.5	0.5
Chemical Name	Unit		Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
2,3,7,8-TCDD	ng/kg		0.0286 J	0.0667 J	1.09 U	1.11 U	1.21 U	1.22 U	0.0507 J	1.13 U	1.1 U	1.1 U	1.04 U	1.05 U	0.331 J
1,2,3,7,8,9-HxCDD	ng/kg		0.0817 J	0.747 J	0.145 J	5.54 U	6.04 U	6.12 U	5.46 U	0.63 J	5.51 U	5.52 U	5.21 U	5.27 U	11.7
OCDD	ng/kg		11.5 U	420	71.3	11.1 U	12.1 U	3.52 J	87.7	6.86 J	21.5	31.3	626	396	5310 J
1,2,3,4,6,7,8-HpCDD	ng/kg		5.77 U	26.5	5.6	5.54 U	6.04 U	6.12 U	9.36	5.67 U	1.85 J	2.77 J	50	31.5	415
OCDF	ng/kg		11.5 U	8.93 J	1.91 J	11.1 U	12.1 U	12.2 U	10.9 U	11.3 U	11 U	11 U	15.1	9.13 J	147
1,2,3,4,7,8-HxCDD	ng/kg		0.0241 J	0.277 J	0.0494 J	5.54 U	6.04 U	6.12 U	5.46 U	5.67 U	5.51 U	5.52 U	5.21 U	5.27 U	5.93
1,2,3,7,8-PeCDD	ng/kg		5.77 U	0.231 J	0.068 J	5.54 U	6.04 U	6.12 U	5.46 U	5.67 U	5.51 U	5.52 U	5.21 U	5.27 U	2.91 J
2,3,7,8-TCDF	ng/kg		1.15 U	0.0361 J	1.09 U	0.063 J	1.21 U	1.22 U	1.09 U	0.0371 J	0.0357 J	0.0393 J	1.04 U	1.05 U	1.08 U
1,2,3,4,7,8,9-HpCDF	ng/kg		5.77 U	0.255 J	0.0935 J	5.54 U	6.04 U	6.12 U	5.46 U	5.67 U	5.51 U	5.52 U	5.21 U	5.27 U	5.74
2,3,4,7,8-PeCDF	ng/kg		5.77 U	0.206 J	0.117 J	5.54 U	6.04 U	6.12 U	5.46 U	5.67 U	5.51 U	5.52 U	5.21 U	5.27 U	5.42 U
1,2,3,7,8-PeCDF	ng/kg		5.77 U	0.135 J	0.0852 J	5.54 U	6.04 U	6.12 U	5.46 U	5.67 U	5.51 U	5.52 U	5.21 U	5.27 U	5.42 U
1,2,3,6,7,8-HxCDF	ng/kg		5.77 U	0.228 J	0.143 J	5.54 U	6.04 U	6.12 U	5.46 U	5.67 U	5.51 U	5.52 U	5.21 U	5.27 U	3.22 J
1,2,3,6,7,8-HxCDD	ng/kg		0.0551 J	0.924 J	0.2 J	5.54 U	6.04 U	6.12 U	5.46 U	0.324 J	5.51 U	5.52 U	1.5 J	5.27 U	12.9
2,3,4,6,7,8-HxCDF	ng/kg		5.77 U	0.279 J	0.205 J	5.54 U	6.04 U	6.12 U	5.46 U	5.67 U	5.51 U	5.52 U	5.21 U	5.27 U	4.52 J
1,2,3,4,6,7,8-HpCDF	ng/kg		5.77 U	3.48 J	5.47 U	5.54 U	6.04 U	6.12 U	5.46 U	5.67 U	5.51 U	5.52 U	7.73	5.27 U	67.1
1,2,3,4,7,8-HxCDF	ng/kg		5.77 U	0.228 J	0.127 J	5.54 U	6.04 U	6.12 U	5.46 U	5.67 U	5.51 U	5.52 U	5.21 U	5.27 U	3.73 J
1,2,3,7,8,9-HxCDF	ng/kg		0.0805 J	0.157 J	0.138 J	5.54 U	6.04 U	6.12 U	5.46 U	5.67 U	5.51 U	5.52 U	5.21 U	5.27 U	5.42 U
Aroclor 1260	ug/kg		2 U	1.9 U	0.82 J	1.9 U	2.1 U	2.1 U	9.3 U	1.9 U	1.9 U	0.79 J	0.86 J	1.7 J	3.9
Aroclor 1254	ug/kg		2 U	1.7 J	0.5 J	1.9 U	2.1 U	2.1 U	9.3 U	1.9 U	0.67 J	3.3 J	1.8 U	5.7	3.9
Aroclor 1268	ug/kg		2 U	1.9 U	1.9 U	1.9 U	2.1 U	2.1 U	9.3 U	1.9 U	1.9 U	1.9 U	1.8 U	1.8 U	1.8 U
Aroclor 1221	ug/kg		2 U	1.9 U	1.9 U	1.9 U	2.1 U	2.1 U	9.3 U	1.9 U	1.9 U	1.9 U	1.8 U	1.8 U	1.8 U
Aroclor 5460	ug/kg		3.8 UJ	3.6 UJ	62 J	3.7 U	4 U	4 U	18 U	3.7 U	3.6 UJ	3.6 UJ	3.4 UJ	3.5 UJ	3.6 J
Aroclor 1232	ug/kg		2 U	1.9 U	1.9 U	1.9 U	2.1 U	2.1 U	9.3 U	1.9 U	1.9 U	1.9 U	1.8 U	1.8 U	1.8 U
Aroclor 5442	ug/kg		3.8 UJ	3.6 UJ	3.6 UJ	3.7 UJ	4 UJ	4 UJ	18 U	3.7 UJ	3.6 UJ	3.6 UJ	3.4 UJ	3.5 UJ	3.6 UJ
Aroclor 1248	ug/kg		2 U	1.9 U	1.9 U	1.9 U	2.1 U	2.1 U	9.3 U	1.9 U	1.9 U	1.9 U	1.8 U	1.8 U	1.8 U
Aroclor 1016	ug/kg		2 U	1.9 U	1.9 U	1.9 U	2.1 U	2.1 U	9.3 U	1.9 U	1.9 U	1.9 U	1.8 U	1.8 U	1.8 U
Aroclor 1262	ug/kg		2 U	1.9 U	1.9 U	1.9 U	2.1 U	2.1 U	9.3 U	1.9 U	1.9 U	1.9 U	1.8 U	1.8 U	1.8 U
Aroclor 1242	ug/kg		2 U	1.9 U	1.9 U	1.9 U	2.1 U	2.1 U	9.3 U	1.9 U	1.9 U	1.9 U	1.8 U	1.8 U	1.8 U
Aroclor 5432	ug/kg		3.8 UJ	3.6 UJ	3.6 UJ	3.7 U	4 U	4 U	18 U	3.7 U	3.6 UJ	3.6 UJ	3.4 UJ	3.5 UJ	3.6 UJ

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-5B

	Sample Name	SL-312-SA5B-SS-0.0-0.5	SL-313-SA5B-SB-4.0-5.0	SL-313-SA5B-SB-9.0-10.0	SL-314-SA5B-SS-0.0-0.5	SL-314-SA5B-SB-4.0-5.0	SL-315-SA5B-SS-0.0-0.5	SL-315-SA5B-SB-3.0-4.0	SL-316-SA5B-SS-0.0-0.5	SL-316-SA5B-SB-4.5-5.5	SL-319-SA5B-SS-0.0-0.5	SL-319-SA5B-SB-4.0-5.0	SL-321-SA5B-SS-0.0-0.5	SL-321-SA5B-SB-3.0-4.0
	Sample Date	12/14/2010	02/08/2011	02/08/2011	02/09/2011	02/08/2011	02/08/2011	02/10/2011	02/08/2011	02/09/2011	02/09/2011	02/10/2011	02/10/2011	02/17/2011
	Lab SDG	DX022	DX048	DX048	DX049	DX048	DX048	DX048	DX048	DX049	DX049	DX048	DX048	DX052
	Start Depth	0	4	9	0	4	0	3	0	4.5	0	4	0	3
	End Depth	0.5	5	10	0.5	5	0.5	4	0.5	5.5	0.5	5	0.5	4
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
2,3,7,8-TCDD	ng/kg	1.05 U	0.025 J	1.12 U	1.08 U	1.11 U	1.06 U	1.08 U	1.05 U	1.07 U	1.07 U	1.07 U	0.215 J	0.0232 J
1,2,3,7,8,9-HxCDD	ng/kg	1.93 J	0.684 J	2.43 J	5.41 U	2.55 J	1.58 J	1.22 J	0.915 J	0.248 J	2.12 J	1.27 J	9.21	1.94 J
OCDD	ng/kg	820	372	540	257	934	615	777	556	142	1160	901	1940	11.4 U
1,2,3,4,6,7,8-HpCDD	ng/kg	67.2	29.3	51.7	15.3	65.2	49.2	68.5	34.3	9.15	86.7	83.5	188	5.69 U
OCDF	ng/kg	23.6	5.78 J	15.5	10.8 U	25.7	15.6	27.5	11.1	2.69 J	37.6	30.4	73.4	11.4 U
1,2,3,4,7,8-HxCDD	ng/kg	5.26 U	0.211 J	0.931 J	5.41 U	0.979 J	0.578 J	0.141 J	0.358 J	5.34 U	0.977 J	0.112 J	4.21 J	5.69 U
1,2,3,7,8-PeCDD	ng/kg	5.26 U	0.119 J	0.532 J	5.41 U	0.592 J	0.279 J	0.105 J	0.194 J	5.34 U	0.49 J	5.36 U	2.44 J	0.0867 J
2,3,7,8-TCDF	ng/kg	1.05 U	0.0198 J	0.0499 J	1.08 U	0.0337 J	0.0409 J	0.0325 J	1.05 U	1.07 U	0.0685 J	0.0273 J	0.233 J	1.14 U
1,2,3,4,7,8,9-HpCDF	ng/kg	5.26 U	0.195 J	0.47 J	5.41 U	0.645 J	0.446 J	0.778 J	0.26 J	5.34 U	0.8 J	0.865 J	2.33 J	5.69 U
2,3,4,7,8-PeCDF	ng/kg	5.26 U	5.55 U	5.59 U	5.41 U	5.54 U	5.3 U	5.39 U	5.24 U	5.34 U	0.312 J	5.36 U	1.15 J	5.69 U
1,2,3,7,8-PeCDF	ng/kg	5.26 U	5.55 U	0.0885 J	5.41 U	5.54 U	0.0855 J	0.123 J	5.24 U	0.0717 J	0.159 J	5.36 U	0.536 J	0.11 J
1,2,3,6,7,8-HxCDF	ng/kg	5.26 U	0.151 J	0.466 J	5.41 U	0.492 J	0.418 J	0.637 J	0.219 J	5.34 U	0.685 J	0.918 J	2.31 J	1.26 J
1,2,3,6,7,8-HxCDD	ng/kg	2.12 J	0.799 J	2.12 J	5.41 U	2.18 J	1.67 J	1.81 J	1.13 J	0.365 J	2.99 J	1.97 J	7.58	1.84 J
2,3,4,6,7,8-HxCDF	ng/kg	5.26 U	0.168 J	0.747 J	5.41 U	0.737 J	0.482 J	0.325 J	0.285 J	0.0611 J	0.922 J	0.335 J	3.69 J	5.69 U
1,2,3,4,6,7,8-HpCDF	ng/kg	11.3	2.19 J	7.4	5.41 U	8.5	5.95	8.22	3.81 J	0.921 J	13.6	9.42	35.2	5.69 U
1,2,3,4,7,8-HxCDF	ng/kg	5.26 U	0.139 J	0.318 J	5.41 U	0.384 J	0.306 J	0.424 J	0.23 J	5.34 U	0.733 J	0.437 J	1.94 J	5.69 U
1,2,3,7,8,9-HxCDF	ng/kg	5.26 U	5.55 U	5.59 U	5.41 U	5.54 U	5.3 U	0.254 J	5.24 U	0.148 J	0.262 J	0.268 J	0.715 J	5.69 U
Aroclor 1260	ug/kg	3.1	1.9 U	1.9 U	1.8 U	1.9 U	1.8 U	1.8 U	1.8 U	0.76 J	3.6 U	1.8 U	1.5 J	1.9 U
Aroclor 1254	ug/kg	1 J	1.9 U	5.6	1.8 U	2.8	1.8 U	4.4	0.93 J	3.7	47	4.8	1.4 J	1.9 U
Aroclor 1268	ug/kg	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U	1.8 U	1.8 U	1.8 U	1.8 U	3.6 U	1.8 U	4.5 U	1.9 U
Aroclor 1221	ug/kg	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U	1.8 U	1.8 U	1.8 U	1.8 U	3.6 U	1.8 U	4.5 U	1.9 U
Aroclor 5460	ug/kg	5.2 J	3.7 UJ	3.7 UJ	3.6 UJ	3.7 UJ	3.5 UJ	2.5 J	3.5 UJ	3.5 UJ	7.1 UJ	3.5 UJ	4.5 J	3.8 UJ
Aroclor 1232	ug/kg	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U	1.8 U	1.8 U	1.8 U	1.8 U	3.6 U	1.8 U	4.5 U	1.9 U
Aroclor 5442	ug/kg	3.5 UJ	3.7 UJ	3.7 UJ	3.6 UJ	3.7 UJ	3.5 UJ	3.6 UJ	3.5 UJ	3.5 UJ	7.1 UJ	3.5 UJ	8.7 UJ	3.8 UJ
Aroclor 1248	ug/kg	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U	1.8 U	1.8 U	1.8 U	1.8 U	3.6 U	1.8 U	4.5 U	1.9 U
Aroclor 1016	ug/kg	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U	1.8 U	1.8 U	1.8 U	1.8 U	3.6 U	1.8 U	4.5 U	1.9 U
Aroclor 1262	ug/kg	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U	1.8 U	1.8 U	1.8 U	1.8 U	3.6 U	1.8 U	4.5 U	1.9 U
Aroclor 1242	ug/kg	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U	1.8 U	1.8 U	1.8 U	1.8 U	3.6 U	1.8 U	4.5 U	1.9 U
Aroclor 5432	ug/kg	3.5 UJ	3.7 UJ	3.7 UJ	3.6 UJ	3.7 UJ	3.5 UJ	3.6 UJ	3.5 UJ	3.5 UJ	7.1 UJ	3.5 UJ	8.7 UJ	3.8 UJ

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-5B

	Sample Name	SL-322-SA5B-SS-0.0-0.5	SL-322-SA5B-SB-3.0-4.0	SL-323-SA5B-SS-0.0-0.5	SL-323-SA5B-SB-4.0-5.0	SL-323-SA5B-SB-11.0-12.0	SL-324-SA5B-SS-0.0-0.5	SL-324-SA5B-SB-4.0-5.0	SL-324-SA5B-SB-8.0-9.0	SL-326-SA5B-SS-0.0-0.5	SL-326-SA5B-SB-9.0-10.0	SL-326-SA5B-SB-14.0-15.0	SL-326-SA5B-SB-18.5-19.5	SL-327-SA5B-SS-0.0-0.5
	Sample Date	02/10/2011	02/17/2011	02/09/2011	02/15/2011	02/15/2011	02/09/2011	02/14/2011	02/14/2011	02/09/2011	02/10/2011	02/10/2011	02/10/2011	02/08/2011
	Lab SDG	DX049	DX052	DX049	DX050	DX050	DX049	DX050	DX050	DX049	DX049	DX049	DX049	DX048
	Start Depth	0	3	0	4	11	0	4	8	0	9	14	18.5	0
	End Depth	0.5	4	0.5	5	12	0.5	5	9	0.5	10	15	19.5	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
2,3,7,8-TCDD	ng/kg	0.117 J	1.07 U	1.05 U	1.16 U	0.0414 J	0.072 J	1.08 U	1.07 U	0.118 J	1.12 U	1.17 U	1.11 U	1.04 U
1,2,3,7,8,9-HxCDD	ng/kg	4.91 J	5.34 U	3.79 J	0.24 J	2.02 J	6.4	3.01 J	1.65 J	4.87 J	0.582 J	0.198 J	0.347 J	0.904 J
OCDD	ng/kg	2200	10.7 U	1640	81	2610	13900 J	468	1640	1310	374	43.8	275	306
1,2,3,4,6,7,8-HpCDD	ng/kg	189	5.34 U	129	5.81 J	195	569	32.9	123	123	62.1	4.37 J	20.3	24.9
OCDF	ng/kg	56.3	10.7 U	36.8	2.75 J	27.9	189	14.3	68.9	40	7.1 J	1.07 J	8.81 J	9.57 J
1,2,3,4,7,8-HxCDD	ng/kg	2.49 J	5.34 U	5.24 U	5.82 U	0.516 J	1.94 J	5.38 U	0.175 J	2.15 J	0.15 J	0.0386 J	0.106 J	0.361 J
1,2,3,7,8-PeCDD	ng/kg	1.22 J	0.0213 J	5.24 U	0.0416 J	0.369 J	0.79 J	0.0919 J	0.0376 J	1.19 J	5.59 U	5.85 U	5.55 U	0.209 J
2,3,7,8-TCDF	ng/kg	0.122 J	1.07 U	0.183 J	1.16 U	2.89	0.105 J	1.08 U	1.07 U	0.114 J	0.0774 J	1.17 U	0.397 J	0.0369 J
1,2,3,4,7,8,9-HpCDF	ng/kg	2.16 J	5.34 U	5.24 U	0.0755 J	1.79 J	1.92 J	0.418 J	0.806 J	1.42 J	0.157 J	5.85 U	0.243 J	0.277 J
2,3,4,7,8-PeCDF	ng/kg	0.64 J	5.34 U	5.24 U	5.82 U	2.57 J	0.713 J	5.38 U	5.37 U	0.374 J	5.59 U	5.85 U	5.55 U	5.2 U
1,2,3,7,8-PeCDF	ng/kg	0.248 J	5.34 U	5.24 U	5.82 U	0.566 J	0.372 J	5.38 U	5.37 U	0.166 J	5.59 U	5.85 U	0.142 J	5.2 U
1,2,3,6,7,8-HxCDF	ng/kg	1.93 J	5.34 U	5.24 U	5.82 U	0.883 J	0.829 J	1.12 J	0.896 J	1.18 J	0.121 J	5.85 U	0.0978 J	0.271 J
1,2,3,6,7,8-HxCDD	ng/kg	5.43	5.34 U	3.96 J	0.23 J	4.55 J	17.3	2.85 J	2.88 J	4.4 J	1.11 J	0.191 J	0.394 J	0.98 J
2,3,4,6,7,8-HxCDF	ng/kg	1.96 J	5.34 U	5.24 U	5.82 U	0.706 J	1.33 J	0.165 J	0.247 J	1.73 J	0.103 J	5.85 U	0.103 J	0.38 J
1,2,3,4,6,7,8-HpCDF	ng/kg	28.5	5.34 U	18.4	0.776 J	9.79	36.7	4.32 J	13.3	21.3	1.79 J	0.45 J	2.23 J	4.37 J
1,2,3,4,7,8-HxCDF	ng/kg	1.45 J	5.34 U	5.24 U	0.214 J	2.01 J	2.31 J	0.376 J	0.357 J	0.923 J	0.197 J	5.85 U	0.134 J	0.232 J
1,2,3,7,8,9-HxCDF	ng/kg	0.508 J	5.34 U	5.24 U	0.204 J	0.226 J	0.692 J	0.215 J	0.182 J	0.358 J	0.158 J	0.104 J	0.0992 J	5.2 U
Aroclor 1260	ug/kg	2.5	1.8 U	0.86 J	2.9 J	3.8 U	0.64 J	0.79 J	0.71 J	1.8 U	4.2	2.1	2.4	2.6
Aroclor 1254	ug/kg	2.1	1.8 U	0.69 J	2 U	60 J	2.4 J	1.8 U	1.8 U	10	8.1	1.7 J	7	1.8 U
Aroclor 1268	ug/kg	1.8 U	1.8 U	1.8 U	2 U	3.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U	2 U	1.9 U	1.8 U
Aroclor 1221	ug/kg	1.8 U	1.8 U	1.8 U	2 U	3.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U	2 U	1.9 U	1.8 U
Aroclor 5460	ug/kg	4.3 J	3.5 UJ	3.5 UJ	3.8 UJ	7.5 J	3.5 UJ	3.6 UJ	3.5 UJ	3.5 UJ	1.9 J	3.9 UJ	3.7 UJ	1.1 J
Aroclor 1232	ug/kg	1.8 U	1.8 U	1.8 U	2 U	3.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U	2 U	1.9 U	1.8 U
Aroclor 5442	ug/kg	3.5 UJ	3.5 UJ	3.5 UJ	3.8 UJ	7.3 UJ	3.5 UJ	3.6 UJ	3.5 UJ	3.5 UJ	3.7 UJ	3.9 UJ	3.7 UJ	3.4 UJ
Aroclor 1248	ug/kg	1.8 U	1.8 U	1.8 U	2 U	3.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U	2 U	1.9 U	1.8 U
Aroclor 1016	ug/kg	1.8 U	1.8 U	1.8 U	2 U	3.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U	2 U	1.9 U	1.8 U
Aroclor 1262	ug/kg	1.8 U	1.8 U	1.8 U	2 U	3.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U	2 U	1.9 U	1.8 U
Aroclor 1242	ug/kg	1.8 U	1.8 U	1.8 U	2 U	3.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U	2 U	1.9 U	1.8 U
Aroclor 5432	ug/kg	3.5 UJ	3.5 UJ	3.5 UJ	3.8 UJ	7.3 UJ	3.5 UJ	3.6 UJ	3.5 UJ	3.5 UJ	3.7 UJ	3.9 UJ	3.7 UJ	3.4 UJ

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-5B

	Sample Name	SL-327-SA5B-SB-4.0-5.0	SL-328-SA5B-SS-0.0-0.5	SL-328-SA5B-SB-3.5-4.5	SL-329-SA5B-SS-0.0-0.5	SL-329-SA5B-SB-4.0-5.0	SL-330-SA5B-SS-0.0-0.5	SL-330-SA5B-SB-4.0-5.0	SL-331-SA5B-SS-0.0-0.5	SL-331-SA5B-SB-3.0-4.0	SL-332-SA5B-SS-0.0-0.5	SL-332-SA5B-SB-4.0-5.0	SL-333-SA5B-SS-0.0-0.5	SL-333-SA5B-SB-4.0-5.0
	Sample Date	02/15/2011	02/08/2011	02/09/2011	02/10/2011	02/15/2011	02/10/2011	02/15/2011	02/10/2011	02/17/2011	02/10/2011	02/16/2011	02/10/2011	02/16/2011
	Lab SDG	DX050	DX048	DX049	DX049	DX050	DX049	DX050	DX049	DX052	DX049	DX051	DX049	DX051
	Start Depth	4	0	3.5	0	4	0	4	0	3	0	4	0	4
	End Depth	5	0.5	4.5	0.5	5	0.5	5	0.5	4	0.5	5	0.5	5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
2,3,7,8-TCDD	ng/kg	0.0357 J	1.04 U	1.07 U	1.06 U	0.0219 J	0.13 J	1.12 U	1.05 U	1.08 U	1.08 U	0.0329 J	0.113 J	0.0454 J
1,2,3,7,8,9-HxCDD	ng/kg	1.56 J	0.696 J	1.71 J	0.899 J	0.239 J	5.22	0.159 J	0.726 J	0.204 J	0.361 J	0.682 J	7.84	1.22 J
OCDD	ng/kg	401	212	746	818	2.61 J	3890	2.68 J	318	10.8 U	284	441	3900	683
1,2,3,4,6,7,8-HpCDD	ng/kg	21	14.9	62	59	5.45 UJ	272	5.62 U	27.8	5.38 U	22.3	44.3	324 J	48.9
OCDF	ng/kg	9.13 J	5.18 J	25.5	18.4	10.9 UJ	83.1	11.2 U	8.53 J	10.8 U	5.93 J	7.91 J	98.5	16.9
1,2,3,4,7,8-HxCDD	ng/kg	0.101 J	0.205 J	0.151 J	0.42 J	5.45 UJ	2.82 J	5.62 U	0.386 J	5.38 U	0.0989 J	0.175 J	4.08 J	0.652 J
1,2,3,7,8-PeCDD	ng/kg	0.124 J	0.136 J	0.219 J	0.202 J	0.0422 J	1.37 J	0.0542 J	0.28 J	0.0189 J	5.41 U	0.131 J	1.76 J	0.263 J
2,3,7,8-TCDF	ng/kg	1.09 U	0.089 J	1.07 U	1.06 U	1.09 UJ	0.123 J	1.12 U	0.213 J	1.08 U	0.0556 J	0.136 J	0.106 J	1.14 U
1,2,3,4,7,8,9-HpCDF	ng/kg	0.188 J	5.2 U	0.656 J	0.939 J	5.45 UJ	3.57 J	5.62 U	1.2 J	5.38 U	0.322 J	0.575 J	4.49 J	0.866 J
2,3,4,7,8-PeCDF	ng/kg	5.43 U	0.446 J	5.37 U	5.31 U	5.45 U	0.674 J	5.62 U	0.967 J	5.38 U	0.627 J	0.878 J	1.02 J	0.665 J
1,2,3,7,8-PeCDF	ng/kg	0.152 J	0.142 J	0.0951 J	0.0633 J	5.45 UJ	0.402 J	5.62 U	0.697 J	5.38 U	0.106 J	5.5 U	0.311 J	5.71 U
1,2,3,6,7,8-HxCDF	ng/kg	0.647 J	0.176 J	0.722 J	0.475 J	5.45 UJ	2.63 J	0.0813 J	1.62 J	5.38 U	0.279 J	0.394 J	3.14 J	0.768 J
1,2,3,6,7,8-HxCDD	ng/kg	1.78 J	0.74 J	2.12 J	1.39 J	0.161 J	7.53	0.0805 J	0.919 J	0.112 J	0.568 J	1.05 J	8.49	1.2 J
2,3,4,6,7,8-HxCDF	ng/kg	0.151 J	0.212 J	0.241 J	0.456 J	5.45 UJ	2.41 J	5.62 U	1.11 J	5.38 U	0.271 J	0.363 J	2.48 J	0.493 J
1,2,3,4,6,7,8-HpCDF	ng/kg	2.45 J	2.15 J	7.19	8.77	5.45 UJ	40	5.62 U	6.91	5.38 U	2.8 J	4.29 J	54.1	7.33
1,2,3,4,7,8-HxCDF	ng/kg	0.221 J	0.192 J	0.344 J	0.773 J	5.45 UJ	2.81 J	5.62 U	2.09 J	5.38 U	0.544 J	0.47 J	3.25 J	0.961 J
1,2,3,7,8,9-HxCDF	ng/kg	0.169 J	5.2 U	0.212 J	0.278 J	5.45 UJ	0.968 J	5.62 U	0.609 J	5.38 U	0.143 J	5.5 U	0.924 J	0.847 J
Aroclor 1260	ug/kg	0.54 J	0.9 J	1.8 U	0.92 J	1.9 U	0.89 J	1.9 U	1.3 J	1.8 U	3.1	2.7	0.43 J	3
Aroclor 1254	ug/kg	2.4 J	1.8 U	2.6	1.6 J	1.9 U	1.4 J	1.9 U	2.2	1.8 U	3	8.4	1.8 UJ	4.5
Aroclor 1268	ug/kg	1.8 U	1.8 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	1.9 U
Aroclor 1221	ug/kg	1.8 U	1.8 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	1.9 U
Aroclor 5460	ug/kg	3.6 UJ	3.4 UJ	3.5 UJ	1.1 J	3.6 UJ	3.4 UJ	3.7 UJ	2.2 J	3.6 UJ	6.6 J	19	1.6 J	16
Aroclor 1232	ug/kg	1.8 U	1.8 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	1.9 U
Aroclor 5442	ug/kg	3.6 UJ	3.4 UJ	3.5 UJ	3.5 UJ	3.6 UJ	3.4 UJ	3.7 UJ	3.5 UJ	3.6 UJ	3.6 UJ	3.6 U	3.5 UJ	3.8 U
Aroclor 1248	ug/kg	1.8 U	1.8 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	1.9 U
Aroclor 1016	ug/kg	1.8 U	1.8 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	1.9 U
Aroclor 1262	ug/kg	1.8 U	1.8 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	1.9 U
Aroclor 1242	ug/kg	1.8 U	1.8 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	1.9 U
Aroclor 5432	ug/kg	3.6 UJ	3.4 UJ	3.5 UJ	3.5 UJ	3.6 UJ	3.4 UJ	3.7 UJ	3.5 UJ	3.6 UJ	3.6 UJ	3.6 U	3.5 UJ	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-5B

	Sample Name	SL-334-SA5B-SS-0.0-0.5	SL-335-SA5B-SS-0.0-0.5	SL-335-SA5B-SB-2.0-3.0	SL-336-SA5B-SB-4.0-5.0	SL-337-SA5B-SB-3.0-4.0
	Sample Date	02/10/2011	02/10/2011	02/16/2011	02/17/2011	02/17/2011
	Lab SDG	DX050	DX050	DX051	DX052	DX052
	Start Depth	0	0	2	4	3
	End Depth	0.5	0.5	3	5	4
Chemical Name	Unit	Result	Result	Result	Result	Result
2,3,7,8-TCDD	ng/kg	0.0518 J	0.0236 J	1.09 U	1.15 U	1.14 U
1,2,3,7,8,9-HxCDD	ng/kg	1.91 J	1.08 J	0.242 J	0.254 J	0.434 J
OCDD	ng/kg	657	444	14.6	21.1	75.3
1,2,3,4,6,7,8-HpCDD	ng/kg	64	42.9	1.32 J	1.47 J	6.1
OCDF	ng/kg	18.2	11.5	10.9 U	11.5 U	1.08 J
1,2,3,4,7,8-HxCDD	ng/kg	0.843 J	0.602 J	5.47 U	5.77 U	5.71 U
1,2,3,7,8-PeCDD	ng/kg	0.402 J	0.272 J	5.47 U	5.77 U	0.0372 J
2,3,7,8-TCDF	ng/kg	1.12 U	1.1 U	1.09 U	1.15 U	1.14 U
1,2,3,4,7,8,9-HpCDF	ng/kg	0.77 J	0.55 J	5.47 U	5.77 U	5.71 U
2,3,4,7,8-PeCDF	ng/kg	0.772 J	5.49 U	5.47 U	5.77 U	5.71 U
1,2,3,7,8-PeCDF	ng/kg	5.61 U	5.49 U	5.47 U	5.77 U	5.71 U
1,2,3,6,7,8-HxCDF	ng/kg	1.02 J	0.565 J	0.126 J	5.77 U	5.71 U
1,2,3,6,7,8-HxCDD	ng/kg	2.04 J	1.2 J	0.212 J	0.192 J	0.315 J
2,3,4,6,7,8-HxCDF	ng/kg	0.617 J	0.359 J	5.47 U	5.77 U	5.71 U
1,2,3,4,6,7,8-HpCDF	ng/kg	8.77	6.11	5.47 U	5.77 U	0.44 J
1,2,3,4,7,8-HxCDF	ng/kg	0.654 J	1.02 J	5.47 U	5.77 U	5.71 U
1,2,3,7,8,9-HxCDF	ng/kg	0.359 J	0.205 J	5.47 U	5.77 U	5.71 U
Aroclor 1260	ug/kg	1.9 U	1.9 U	1.9 U	2 U	1.9 U
Aroclor 1254	ug/kg	1.1 J	1.9 U	1.9 U	2 U	1.9 U
Aroclor 1268	ug/kg	1.9 U	1.9 U	1.9 U	2 U	1.9 U
Aroclor 1221	ug/kg	1.9 U	1.9 U	1.9 U	2 U	1.9 U
Aroclor 5460	ug/kg	3.7 UJ	3.6 UJ	3.6 U	3.8 UJ	3.8 UJ
Aroclor 1232	ug/kg	1.9 U	1.9 U	1.9 U	2 U	1.9 U
Aroclor 5442	ug/kg	3.7 UJ	3.6 UJ	3.6 U	3.8 UJ	3.8 UJ
Aroclor 1248	ug/kg	1.9 U	1.9 U	1.9 U	2 U	1.9 U
Aroclor 1016	ug/kg	1.9 U	1.9 U	1.9 U	2 U	1.9 U
Aroclor 1262	ug/kg	1.9 U	1.9 U	1.9 U	2 U	1.9 U
Aroclor 1242	ug/kg	1.9 U	1.9 U	1.9 U	2 U	1.9 U
Aroclor 5432	ug/kg	3.7 UJ	3.6 UJ	3.6 U	3.8 UJ	3.8 UJ

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

Appendix A5
Pesticides - Validated Data
HSA-5B

		Sample Name	SL-001-SA5B-SS-0.0-0.5	SL-002-SA5B-SS-0.0-0.5	SL-003-SA5B-SS-0.0-0.5	SL-004-SA5B-SS-0.0-0.5	SL-005-SA5B-SS-0.0-0.5	SL-006-SA5B-SS-0.0-0.5	SL-007-SA5B-SS-0.0-0.5	SL-008-SA5B-SS-0.0-0.5	SL-009-SA5B-SS-0.0-0.5	SL-010-SA5B-SS-0.0-0.5	SL-011-SA5B-SS-0.0-0.5	SL-012-SA5B-SS-0.0-0.5
		Sample Date	12/09/2010	12/09/2010	12/09/2010	12/09/2010	12/09/2010	12/09/2010	12/09/2010	12/10/2010	12/10/2010	12/09/2010	12/09/2010	12/09/2010
		Lab SDG	DX016	DE032	DE031	DE031	DE031	DE032	DE032	DE034	DE034	DE032	DE032	DE032
		Start Depth	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
Chemical Name	Unit		Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Dichlorprop	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	1.9 U	1.9 U
Dicamba	ug/kg		1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.2 U	1.3 U	1.3 U	1.3 U	1.3 U
2,2-Dichlor-Propionic Acid	ug/kg		9.6 U	9.5 U	9.8 U	9.7 U	9.4 U	9.8 U	9.7 U	9.3 U	9.6 U	9.9 U	9.8 U	9.8 U
Dinitrobutyl Phenol	ug/kg		2.6 U	2.5 U	2.6 R	2.6 R	2.5 R	2.6 U	2.6 U	2.5 R	2.6 R	2.6 U	1.1 J	2.6 U
MCPP	ug/kg		170 J	260 U	270 U	270 U	260 U	270 U	270 U	260 R	270 U	250 J	350	270 U
2,4,5-TP	ug/kg		0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 R	0.18 U	0.19 U	0.19 U	0.19 U
2,4,5-T	ug/kg		0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.36 U	0.18 U	0.22 U	0.19 U	0.19 U
MCPA	ug/kg		270 U	260 U	270 U	270 U	260 U	270 U	270 U	260 U	270 U	370	580	270 U
2,4-D	ug/kg		3.8 U	3.8 U	3.9 U	3.9 U	3.8 U	3.9 U	3.9 U	3.7 U	3.9 U	4 U	3.9 U	3.9 U
2,4 DB	ug/kg		2	1.8 U	1.8 U	1.8 U	3.8	1.8 U	1.8 U	1.8 R	1.8 U	3.6	3.2 U	1.9 UJ
Toxaphene	ug/kg		7 U	7 U	7.2 U	350 U	6.9 U	7.2 U	7.1 U	6.8 U	7.1 U	36 U	36 U	7.2 U
Heptachlor Epoxide	ug/kg		0.18 U	0.18 U	0.18 U	8.9 U	0.17 U	0.18 U	0.18 U	0.17 U	0.18 U	0.92 U	0.91 U	0.31 U
Endosulfan Sulfate	ug/kg		0.36 U	0.36 U	0.37 U	18 U	0.36 U	0.37 U	0.36 U	0.35 U	0.36 U	1.9 U	1.9 U	0.37 U
Mirex	ug/kg		0.36 U	0.2 J	0.37 U	9.8 J	0.36 U	0.37 U	0.36 U	0.49 U	0.36 U	1.9 U	1.9 U	0.37 U
Aldrin	ug/kg		0.18 U	0.18 U	0.18 U	8.9 U	0.17 U	0.18 U	0.18 U	0.17 U	0.18 U	0.92 U	0.91 U	0.18 U
Alpha-BHC	ug/kg		0.18 U	0.18 U	0.18 U	8.9 U	0.17 U	0.18 U	0.18 U	0.17 U	0.18 U	0.92 U	0.91 U	0.18 U
Beta-BHC	ug/kg		0.18 U	0.098 J	0.18 U	8.9 U	0.17 U	0.18 U	0.18 U	0.17 U	0.18 U	0.92 U	0.91 U	0.18 UJ
Delta-BHC	ug/kg		0.18 U	0.18 U	0.18 U	8.9 U	0.17 U	0.18 U	0.18 U	0.064 J	0.18 U	0.92 U	0.91 U	0.18 U
Endosulfan II	ug/kg		0.36 U	0.36 U	0.37 U	18 U	0.36 U	0.37 U	0.36 U	0.35 U	0.36 U	1.9 U	1.9 U	0.37 U
4,4'-DDT	ug/kg		0.36 U	0.36 U	0.37 U	18 U	0.36 U	0.66 U	0.36 U	0.35 U	0.36 U	1.9 U	1.9 U	0.37 U
Endrin Ketone	ug/kg		0.36 U	0.36 U	0.37 U	18 U	0.36 U	0.37 U	0.36 U	0.35 U	0.36 U	1.9 U	1.9 U	0.17 J
Chlordane	ug/kg		3.6 U	3.6 U	3.7 U	180 U	3.6 U	3.7 U	3.6 U	3.5 U	3.6 U	19 U	19 U	3.7 U
Gamma-BHC (Lindane)	ug/kg		0.18 U	0.18 U	0.18 U	8.9 U	0.17 U	0.18 U	0.18 U	0.17 U	0.18 U	0.92 U	0.91 U	0.18 U
Dieldrin	ug/kg		0.36 U	0.36 U	0.37 U	18 U	0.36 U	0.37 U	0.36 U	0.35 U	0.36 U	1.9 U	1.9 U	0.37 U
Endrin	ug/kg		0.36 U	0.36 U	0.37 U	18 U	0.36 U	0.37 U	0.36 U	0.35 U	0.36 U	1.9 U	1.9 U	0.37 U
Methoxychlor	ug/kg		1.8 U	1.8 U	1.8 U	89 U	1.7 U	1.8 U	1.8 U	1.7 U	1.8 U	9.2 U	9.1 U	1.8 U
4,4'-DDD	ug/kg		0.36 U	0.36 U	0.37 U	18 U	0.36 U	0.37 U	0.36 U	0.52 U	0.36 U	1.9 U	1.9 U	0.37 U
4,4'-DDE	ug/kg		0.36 U	0.36 U	0.37 U	18 U	0.36 U	0.37 U	0.36 U	0.35 U	0.36 U	1.9 U	1.9 U	0.37 U
Endrin Aldehyde	ug/kg		0.36 U	0.36 U	0.37 U	18 U	0.36 U	0.37 U	0.36 U	0.35 U	0.36 U	1.9 U	1.9 U	0.37 U
Heptachlor	ug/kg		0.18 U	0.18 U	0.18 U	8.9 U	0.17 U	0.18 U	0.18 U	0.17 U	0.18 U	0.92 U	0.55 J	0.18 U
Endosulfan I	ug/kg		0.18 U	0.18 U	0.18 U	8.9 U	0.17 U	0.18 U	0.18 U	0.17 U	0.18 U	0.92 U	0.91 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-5B

	Sample Name	SL-013-SA5B-SS-0.0-0.5	SL-014-SA5B-SS-0.0-0.5	SL-017-SA5B-SS-0.0-0.5	SL-018-SA5B-SS-0.0-0.5	SL-020-SA5B-SS-0.0-0.5	SL-022-SA5B-SS-0.0-0.5	SL-024-SA5B-SS-0.0-0.5	SL-026-SA5B-SS-0.0-0.5	SL-027-SA5B-SS-0.0-0.5	SL-027-SA5B-SB-4.0-5.0	SL-027-SA5B-SB-8.0-9.0	SL-029-SA5B-SS-0.0-0.5
	Sample Date	12/09/2010	12/09/2010	12/08/2010	12/09/2010	12/09/2010	12/08/2010	12/22/2010	12/08/2010	01/05/2011	12/15/2010	12/15/2010	12/08/2010
	Lab SDG	DE032	DE032	DE033	DE032	DE032	DE032	DE051	DE031	DE053	DE041	DE041	DE033
	Start Depth	0	0	0	0	0	0	0	0	0	4	8	0
	End Depth	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	5	9	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Dichlorprop	ug/kg	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	2.1 U	1.8 U	9.9 U	2 U	1.9 U	1.9 U
Dicamba	ug/kg	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.5 U	1.3 U	7 U	1.4 U	1.3 U	1.3 U
2,2-Dichlor-Propionic Acid	ug/kg	9.8 U	10 U	9.8 U	9.9 U	9.8 U	9.8 U	11 U	9.6 U	52 U	11 U	9.9 U	9.8 U
Dinitrobutyl Phenol	ug/kg	2.6 U	2.7 U	2.6 R	2.6 U	2.6 U	2.6 U	3 R	2.6 R	14 R	2.9 R	2.6 R	2.6 R
MCPP	ug/kg	270 U	280 U	290	280 U	230 J	270 U	310 U	270 U	1500 U	310	320	270 U
2,4,5-TP	ug/kg	0.18 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.21 U	0.18 U	0.99 U	0.2 U	0.19 U	0.19 U
2,4,5-T	ug/kg	0.18 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.21 U	0.18 U	0.99 U	0.27	0.19 U	0.19 U
MCPA	ug/kg	270 U	230 J	270 U	390 U	350	260 J	310 U	270 U	1500 U	340	710	270 U
2,4-D	ug/kg	3.9 U	4 U	3.9 U	4 U	3.9 U	3.9 U	4.5 U	3.9 U	21 U	4.3 U	4 U	3.9 U
2,4 DB	ug/kg	5.2 U	1.7 J	1.9 U	1.9 U	7.3 U	1.9 U	2.1 U	1.8 U	9.9 U	1.4 J	3.2	2.9
Toxaphene	ug/kg	7.2 U	7.3 U	7.2 U	7.3 U	7.2 U	7.2 U	8.3 U	7.1 U	7.7 U	7.9 U	7.2 U	7.2 U
Heptachlor Epoxide	ug/kg	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.21 U	1.2 U	0.19 U	0.2 U	0.18 U	0.18 U
Endosulfan Sulfate	ug/kg	0.37 U	0.38 U	0.37 U	0.37 U	0.37 U	0.37 U	0.43 U	0.36 U	0.4 U	0.41 U	0.37 U	0.37 U
Mirex	ug/kg	0.53 U	0.38 U	0.37 U	0.85	0.37 U	0.37 U	0.43 U	0.52 U	0.4 U	0.41 U	0.37 U	0.37 U
Aldrin	ug/kg	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.21 U	0.18 U	0.19 U	0.2 U	0.18 U	0.18 U
Alpha-BHC	ug/kg	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.21 U	0.18 U	0.19 U	0.2 U	0.18 U	0.18 U
Beta-BHC	ug/kg	0.18 U	0.18 U	0.18 U	0.13 J	0.081 J	0.18 U	0.21 U	0.25	0.19 U	0.2 U	0.18 U	0.071 J
Delta-BHC	ug/kg	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.21 U	0.18 U	0.19 U	0.2 U	0.18 U	0.18 U
Endosulfan II	ug/kg	0.37 U	0.38 U	0.37 U	0.37 U	0.37 U	0.37 U	0.43 U	0.36 U	0.4 U	0.41 U	0.37 U	0.37 U
4,4'-DDT	ug/kg	0.37 U	0.38 U	0.37 U	0.37 U	0.37 U	0.37 U	0.43 U	2	0.16 J	0.41 U	0.37 U	0.37 U
Endrin Ketone	ug/kg	0.37 U	0.38 U	0.37 U	0.37 U	0.37 U	0.37 U	0.43 U	0.36 U	0.4 U	0.41 U	0.11 J	0.37 U
Chlordane	ug/kg	3.7 U	3.8 U	3.7 U	3.7 U	3.7 U	3.7 U	4.3 U	3.6 U	4 U	4.1 U	3.7 U	3.7 U
Gamma-BHC (Lindane)	ug/kg	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.21 U	0.18 U	0.19 U	0.2 U	0.18 U	0.18 U
Dieldrin	ug/kg	0.37 U	0.38 U	0.37 U	0.37 U	0.37 U	0.37 U	0.43 U	0.36 U	0.4 U	0.41 U	0.37 U	0.37 U
Endrin	ug/kg	0.37 U	0.38 U	0.37 U	0.37 U	0.37 U	0.37 U	0.43 U	0.36 U	0.4 U	0.41 U	0.37 U	0.37 U
Methoxychlor	ug/kg	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	2.1 U	1.8 U	1.9 U	2 U	1.8 U	1.8 U
4,4'-DDD	ug/kg	0.37 U	0.38 U	0.37 U	0.37 U	0.37 U	0.37 U	0.43 U	0.36 U	0.4 U	0.41 U	0.37 U	0.37 U
4,4'-DDE	ug/kg	0.37 U	0.38 U	0.37 U	0.37 U	0.37 U	0.37 U	0.43 U	0.36 U	0.31 J	0.28 J	0.37 U	0.37 U
Endrin Aldehyde	ug/kg	0.37 U	0.38 U	0.37 U	0.1 J	0.37 U	0.37 U	0.43 U	0.36 U	0.4 U	0.41 U	0.37 U	0.37 U
Heptachlor	ug/kg	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.21 U	0.18 U	0.19 U	0.2 U	0.18 U	0.18 U
Endosulfan I	ug/kg	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.21 U	0.18 U	0.19 U	0.2 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-5B

		Sample Name	SL-031-SA5B-SS-0.0-0.5	SL-032-SA5B-SS-0.0-0.5	SL-034-SA5B-SS-0.0-0.5	SL-035-SA5B-SS-0.0-0.5	SL-036-SA5B-SS-0.0-0.5	SL-038-SA5B-SS-0.0-0.5	SL-039-SA5B-SS-0.0-0.5	SL-048-SA5B-SS-0.0-0.5	SL-049-SA5B-SS-0.0-0.5	SL-051-SA5B-SS-0.0-0.5	SL-054-SA5B-SS-0.0-0.5	SL-057-SA5B-SS-0.0-0.5
		Sample Date	12/08/2010	12/08/2010	12/08/2010	12/08/2010	12/08/2010	12/08/2010	12/08/2010	12/10/2010	02/11/2011	12/10/2010	12/14/2010	12/10/2010
		Lab SDG	DE032	DE031	DE033	DE033	DE033	DE031	DE031	DE034	DE081	DE034	DE038	DE035
		Start Depth	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
Chemical Name	Unit		Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Dichlorprop	ug/kg		1.8 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.7 U	1.9 U	1.8 U	2 U
Dicamba	ug/kg		1.3 U	1.3 U	0.9 J	1.3 U	0.57 J	1.3 U	1.3 U	0.47 J	1.2 U	1.3 U	1.3 U	1.4 U
2,2-Dichlor-Propionic Acid	ug/kg		9.8 U	9.8 U	9.8 U	10 U	10 U	9.9 U	9.8 U	10 U	9.2 U	10 U	9.6 U	10 U
Dinitrobutyl Phenol	ug/kg		2.6 U	2.6 R	2.6 R	2.7 R	2.7 R	2.6 R	2.6 R	2.7 R	2.5 U	2.7 R	2.6 R	2.8 R
MCPP	ug/kg		270 U	160 J	270 U	280 U	590	270 U	270 U	280 U	260 U	200 J	270 U	290 U
2,4,5-TP	ug/kg		0.18 U	0.18 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.17 U	0.19 U	0.18 U	0.2 U
2,4,5-T	ug/kg		0.18 U	0.18 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.17 U	0.19 U	0.18 U	0.2 U
MCPA	ug/kg		250 J	170 J	810	330 U	480	270 U	270 U	280 U	87 J	170 J	270 U	290 U
2,4-D	ug/kg		3.9 U	3.9 U	3.9 U	4 U	4 U	3.9 U	3.9 U	4.1 U	3.7 U	4 U	3.8 U	4.2 U
2,4 DB	ug/kg		2	1.9	8.5	3.4	9.6 U	1.9 U	1.9 U	2	1.7 U	1.9	1.6 J	2 U
Toxaphene	ug/kg		7.2 U	7.2 U	7.2 U	7.3 U	7.3 U	7.2 U	7.2 U	7.4 U	6.8 U	7.3 U	7 U	7.6 U
Heptachlor Epoxide	ug/kg		0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.19 U	0.17 U	0.28 U	0.18 U	0.19 U
Endosulfan Sulfate	ug/kg		0.37 U	0.37 U	0.37 U	0.38 U	0.38 U	0.37 U	0.37 U	0.38 U	0.35 U	0.38 U	0.36 U	0.39 U
Mirex	ug/kg		0.37 U	0.37 U	0.1 J	0.38 U	0.38 U	0.37 U	0.37 U	0.73 U	0.35 U	0.38 U	0.49 U	0.39 U
Aldrin	ug/kg		0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.19 U	0.17 U	0.18 U	0.18 U	0.19 U
Alpha-BHC	ug/kg		0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.19 U	0.17 U	0.18 U	0.18 U	0.19 U
Beta-BHC	ug/kg		0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.1 J	0.18 U	0.19 U	0.17 U	0.18 U	0.18 U	0.19 U
Delta-BHC	ug/kg		0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.19 U	0.17 U	0.18 U	0.18 U	0.19 U
Endosulfan II	ug/kg		0.37 U	0.37 U	0.37 U	0.38 U	0.38 U	0.37 U	0.37 U	0.38 U	0.35 U	0.38 U	0.36 U	0.39 U
4,4'-DDT	ug/kg		0.54 U	0.37 U	0.13 J	0.38 U	0.38 U	0.37 U	0.54	0.45 U	0.35 U	0.38 U	0.44 U	0.39 U
Endrin Ketone	ug/kg		0.37 U	0.37 U	0.37 U	0.38 U	0.38 U	0.37 U	0.37 U	0.38 U	0.35 U	0.38 U	0.36 U	0.39 U
Chlordane	ug/kg		3.7 U	3.7 U	3.7 U	3.8 U	3.8 U	3.7 U	3.7 U	3.8 U	3.5 U	5.7 U	3.6 U	3.9 U
Gamma-BHC (Lindane)	ug/kg		0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.19 U	0.17 U	0.18 U	0.18 U	0.19 U
Dieldrin	ug/kg		0.37 U	0.37 U	0.37 U	0.38 U	0.38 U	0.37 U	0.37 U	0.38 U	0.35 U	0.38 U	0.36 U	0.39 U
Endrin	ug/kg		0.37 U	0.37 U	0.37 U	0.38 U	0.38 U	0.37 U	0.37 U	0.38 U	0.35 U	0.38 U	0.36 U	0.39 U
Methoxychlor	ug/kg		1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U	1.7 U	1.8 U	1.8 U	1.9 U
4,4'-DDD	ug/kg		0.37 U	0.37 U	0.37 U	0.38 U	0.38 U	0.37 U	0.37 U	0.38 U	0.35 U	0.38 U	0.61 U	0.39 U
4,4'-DDE	ug/kg		0.37 U	0.37 U	0.37 U	0.38 U	0.38 U	0.37 U	0.37 U	0.38 U	0.35 U	0.38 U	0.37 U	0.39 U
Endrin Aldehyde	ug/kg		0.37 U	0.37 U	0.37 U	0.38 U	0.38 U	0.37 U	0.37 U	0.38 U	0.35 U	0.38 U	0.36 U	0.39 U
Heptachlor	ug/kg		0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.22 U	0.17 U	0.2 U	0.18 U	0.19 U
Endosulfan I	ug/kg		0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.19 U	0.17 U	0.18 U	0.18 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-5B

	Sample Name	SL-059-SA5B-SS-0.0-0.5	SL-061-SA5B-SS-0.0-0.5	SL-062-SA5B-SS-0.0-0.5	SL-064-SA5B-SS-0.0-0.5	SL-065-SA5B-SS-0.0-0.5	SL-067-SA5B-SS-0.0-0.5	SL-070-SA5B-SS-0.0-0.5	SL-071-SA5B-SS-0.0-0.5	SL-072-SA5B-SS-0.0-0.5	SL-073-SA5B-SS-0.0-0.5	SL-074-SA5B-SS-0.0-0.5	SL-075-SA5B-SS-0.0-0.5
	Sample Date	12/10/2010	12/10/2010	12/10/2010	12/10/2010	12/10/2010	12/10/2010	12/10/2010	12/13/2010	12/13/2010	12/13/2010	12/13/2010	12/13/2010
	Lab SDG	DE034	DE034	DE034	DE034	DE034	DE034	DE034	DE036	DE036	DE036	DE036	DE037
	Start Depth	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
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Dichlorprop	ug/kg	2 U	1.9 U	2 U	1.9 U	1.9 U	1.8 U	2 U	1.8 U	1.8 U	1.8 U	1.9 U	1.8 U
Dicamba	ug/kg	1.4 U	1.4 U	1.4 U	1.3 U	1.3 U	1.3 U	1.4 U	1.3 U	1.3 U	1.3 U	1.3 U	0.94 J
2,2-Dichlor-Propionic Acid	ug/kg	10 U	10 U	11 U	10 U	9.9 U	9.7 U	11 U	9.6 R	9.5 U	9.5 U	9.8 U	9.6 U
Dinitrobutyl Phenol	ug/kg	2.8 R	2.7 R	2.8 R	2.7 R	2.6 R	2.6 R	2.8 R	2.6 R	2.5 R	2.5 R	2.6 R	2.6 R
MCPP	ug/kg	290 U	290 U	290 U	280 U	280 U	340	290 U	450 U	260 U	260 U	270 U	280 U
2,4,5-TP	ug/kg	0.2 U	0.19 U	0.2 U	0.19 U	0.19 U	0.18 U	0.2 U	0.18 U	0.18 U	0.18 U	0.19 U	0.18 U
2,4,5-T	ug/kg	0.2 U	0.19 U	0.2 U	0.19 U	0.19 U	0.18 U	0.2 U	0.18 U	0.18 U	0.18 U	0.27	0.18 U
MCPA	ug/kg	290 U	110 J	290 U	280 U	280 U	270 U	290 U	270 U	260 U	640	230 J	270 U
2,4-D	ug/kg	4.1 U	4.1 U	4.2 U	4 U	4 U	3.9 U	4.2 U	3.8 U	1.4 J	3.8 U	1.9 J	3.8 U
2,4 DB	ug/kg	0.89 J	1.9 U	2 U	1.9 U	1.9 U	1.8 U	2 U	1.8 U	7.1 U	4.1	7.7 U	6.8 U
Toxaphene	ug/kg	7.6 U	7.6 U	7.7 U	7.4 U	7.3 U	7.1 U	7.8 U	7 U	7 U	6.9 U	7.2 U	7 U
Heptachlor Epoxide	ug/kg	0.19 U	0.19 U	0.19 U	0.19 U	1.7 U	0.38 U	0.11 J	0.18 U	0.18 U	0.17 U	0.18 U	0.18 U
Endosulfan Sulfate	ug/kg	0.39 U	0.39 U	0.4 U	0.38 U	0.38 U	0.37 U	0.4 U	0.36 U	0.36 U	0.36 U	0.37 U	0.36 U
Mirex	ug/kg	0.39 U	0.39 U	0.4 U	0.38 U	0.38 U	0.37 U	0.4 U	0.66 U	0.36 U	0.36 U	0.37 U	0.36 U
Aldrin	ug/kg	0.19 U	0.19 U	0.19 U	0.19 U	0.18 U	0.18 U	0.2 U	0.18 U	0.18 U	0.17 U	0.18 U	0.18 U
Alpha-BHC	ug/kg	0.19 U	0.19 U	0.19 U	0.19 U	0.18 U	0.18 U	0.2 U	0.18 U	0.18 U	0.17 U	0.18 U	0.18 U
Beta-BHC	ug/kg	0.19 U	0.19 U	0.19 U	0.19 U	0.18 U	0.18 U	0.2 U	0.18 U	0.18 U	0.17 U	0.74 J	0.18 U
Delta-BHC	ug/kg	0.19 U	0.19 U	0.19 U	0.19 U	0.18 U	0.18 U	0.2 U	0.18 U	0.18 U	0.17 U	0.18 U	0.18 U
Endosulfan II	ug/kg	0.39 U	0.39 U	0.4 U	0.38 U	0.38 U	1.8 U	0.4 U	0.36 U	0.36 U	0.36 U	0.37 U	0.36 U
4,4'-DDT	ug/kg	0.39 U	0.55 U	0.29 J	0.38 U	0.84 U	1.3 U	0.4 U	0.82 U	0.36 U	0.91 U	0.41 U	0.36 U
Endrin Ketone	ug/kg	0.39 U	0.39 U	0.4 U	0.38 U	0.38 U	0.37 U	0.4 U	0.36 U	0.36 U	0.36 U	0.37 U	0.36 U
Chlordane	ug/kg	3.9 U	3.9 U	4 U	3.8 U	3.8 U	3.7 U	4 U	3.6 U	3.6 U	3.6 U	3.7 U	3.6 U
Gamma-BHC (Lindane)	ug/kg	0.19 U	0.19 U	0.19 U	0.19 U	0.18 U	0.18 U	0.2 U	0.18 U	0.18 U	0.17 U	0.18 U	0.18 U
Dieldrin	ug/kg	0.39 U	0.39 U	0.4 U	0.38 U	0.38 U	0.43 U	0.4 U	0.36 R	0.36 U	0.36 U	0.37 U	0.36 U
Endrin	ug/kg	0.39 U	0.39 U	0.4 U	0.38 U	0.38 U	0.37 U	0.4 U	0.36 R	0.36 U	0.36 U	0.37 U	0.36 U
Methoxychlor	ug/kg	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	1.8 U	2 U	1.8 U	1.8 U	1.7 U	1.8 U	1.8 U
4,4'-DDD	ug/kg	0.39 U	0.39 U	0.4 U	0.38 U	0.38 U	0.37 U	0.4 U	0.36 U	0.36 U	0.36 U	0.37 U	0.36 U
4,4'-DDE	ug/kg	0.39 U	0.39 U	0.088 J	0.38 U	0.98 U	1.7 U	0.4 U	0.36 U	0.38 U	0.36 U	0.37 U	0.36 U
Endrin Aldehyde	ug/kg	0.39 U	0.39 U	0.4 U	0.38 U	0.38 U	0.37 U	0.4 U	0.36 U	0.36 U	0.47 U	0.37 U	0.36 U
Heptachlor	ug/kg	0.19 U	0.19 U	0.19 U	0.19 U	0.18 U	0.18 U	0.2 U	0.18 R	0.18 U	0.17 U	0.18 U	0.18 U
Endosulfan I	ug/kg	0.19 U	0.19 U	0.19 U	0.19 U	0.18 U	0.18 U	0.2 U	0.18 U	0.18 U	0.17 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-5B

		Sample Name	SL-076-SA5B-SS-0.0-0.5	SL-077-SA5B-SS-0.0-0.5	SL-078-SA5B-SS-0.0-0.5	SL-083-SA5B-SS-0.0-0.5	SL-084-SA5B-SS-0.0-0.5	SL-085-SA5B-SS-0.0-0.5	SL-086-SA5B-SS-0.0-0.5	SL-087-SA5B-SS-0.0-0.5	SL-089-SA5B-SS-0.0-0.5	SL-091-SA5B-SS-0.0-0.5	SL-092-SA5B-SS-0.0-0.5	SL-095-SA5B-SS-0.0-0.5
		Sample Date	12/13/2010	12/13/2010	12/13/2010	12/13/2010	12/13/2010	12/13/2010	12/13/2010	12/13/2010	12/13/2010	12/13/2010	12/13/2010	12/13/2010
		Lab SDG	DE036	DE037	DE036	DE036	DE036	DE037	DE036	DE037	DE036	DE037	DE036	DE037
		Start Depth	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
Chemical Name	Unit		Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Dichlorprop	ug/kg		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	1.8 U	1.9 U	1.8 U
Dicamba	ug/kg		1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	0.54 J	1.3 U	1.3 U	1.4 U	0.55 J
2,2-Dichlor-Propionic Acid	ug/kg		9.6 U	9.7 U	9.9 U	9.8 U	9.8 U	9.6 U	9.6 U	9.8 U	9.6 U	9.8 U	10 U	9.5 U
Dinitrobutyl Phenol	ug/kg		2.6 R	2.6 R	2.6 R	13 R	2.6 R	2.6 R	2.5 R	2.6 R	2.6 R	2.6 R	2.7 R	2.5 R
MCPP	ug/kg		130 J	270 U	410 U	270 U	270 U	270 U	270 U	270 U	270 U	270 U	280 U	260 U
2,4,5-TP	ug/kg		0.18 U	0.18 U	0.19 U	0.18 U	0.19 U	0.18 U	0.18 U	0.19 U	0.18 U	0.18 U	0.19 U	0.18 U
2,4,5-T	ug/kg		0.18 U	0.18 U	0.19 U	0.18 U	0.19 U	0.18 U	1.8	0.19 U	0.088 J	0.18 U	0.19 U	0.18 U
MCPA	ug/kg		270 U	520 U	280 U	350 U	250 J	200 J	270 U	400 U	270 U	270 U	450	530
2,4-D	ug/kg		3.8 U	3.9 U	4 U	3.9 U	3.9 U	3.9 U	3.8 U	3.9 U	3.9 U	3.9 U	4.1 U	3.8 U
2,4 DB	ug/kg		3.3	6.9 U	7.6 U	60 U	7 U	1.8 U	1.8 U	2.9 U	1.8 U	1.8 U	3.1	3.9 U
Toxaphene	ug/kg		7 U	7.1 U	7.3 U	1400 U	7.2 U	7.1 U	7 U	7.2 U	7.1 U	7.2 U	7.4 U	6.9 U
Heptachlor Epoxide	ug/kg		0.18 U	0.2 U	0.22 U	780 U	0.18 U	0.29 U	0.18 U	1.8 U	0.23 U	0.19 U	0.19 U	0.17 U
Endosulfan Sulfate	ug/kg		0.36 U	0.37 U	0.37 U	74 U	0.37 U	0.36 U	0.36 U	0.37 U	0.36 U	0.37 U	0.38 U	0.36 U
Mirex	ug/kg		0.36 U	0.39 U	0.37 U	74 U	0.37 U	0.36 U	0.36 U	0.37 U	0.36 U	0.37 U	0.38 U	0.36 U
Aldrin	ug/kg		0.18 U	0.18 U	0.18 U	36 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.19 U	0.17 U
Alpha-BHC	ug/kg		0.18 U	0.18 U	0.18 U	36 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.19 U	0.17 U
Beta-BHC	ug/kg		0.18 U	0.63	0.23	36 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.19 U	0.17 U
Delta-BHC	ug/kg		0.18 U	0.31	0.18 U	36 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.19 U	0.12 J
Endosulfan II	ug/kg		0.36 U	0.62 U	0.37 U	74 U	0.37 U	0.36 U	0.36 U	0.37 U	0.36 U	0.37 U	0.38 U	0.36 U
4,4'-DDT	ug/kg		0.36 U	2.1 U	0.37 U	230 U	0.37 U	1.6 U	0.36 U	2.1 U	1.7 U	0.5 U	0.38 U	0.36 U
Endrin Ketone	ug/kg		0.36 U	0.37 U	0.37 U	74 U	0.37 U	0.36 U	0.36 U	0.37 U	0.36 U	0.37 U	0.38 U	0.36 U
Chlordane	ug/kg		3.6 U	3.7 U	3.7 U	740 U	3.7 U	3.6 U	3.6 U	5 U	6.6 U	3.7 U	3.8 U	3.6 U
Gamma-BHC (Lindane)	ug/kg		0.18 U	0.18 U	0.18 U	36 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.19 U	0.17 U
Dieldrin	ug/kg		0.36 U	0.68 U	0.37 U	99 U	0.37 U	0.61 U	0.36 U	0.64 U	0.56 U	0.37 U	0.38 U	0.36 U
Endrin	ug/kg		0.36 U	0.37 U	0.37 U	74 U	0.37 U	0.36 U	0.36 U	0.37 U	0.36 U	0.53	0.38 U	0.36 U
Methoxychlor	ug/kg		1.8 U	1.8 U	1.8 U	360 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U	1.7 U
4,4'-DDD	ug/kg		0.36 U	2.6 U	0.37 U	74 U	0.37 U	1.1 U	0.36 U	1.5 U	0.36 U	0.37 U	0.38 U	0.36 U
4,4'-DDE	ug/kg		0.36 U	0.37 U	0.37 U	500 U	0.37 U	1.7 U	0.36 U	1.4 U	1.1 U	0.37 U	0.38 U	0.36 U
Endrin Aldehyde	ug/kg		0.36 U	0.46 U	0.37 U	74 U	0.37 U	0.46 U	0.36 U	0.44 U	0.36 U	0.37 U	0.38 U	0.36 U
Heptachlor	ug/kg		0.18 U	0.18 U	0.18 U	98 U	0.18 U	0.18 U	0.18 U	0.21 U	0.18 U	0.18 U	0.19 U	0.17 U
Endosulfan I	ug/kg		0.18 U	0.18 U	0.18 U	36 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.19 U	0.17 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-5B

		Sample Name	SL-098-SA5B-SS-0.0-0.5	SL-100-SA5B-SS-0.0-0.5	SL-101-SA5B-SS-0.0-0.5	SL-102-SA5B-SS-0.0-0.5	SL-103-SA5B-SS-0.0-0.5	SL-105-SA5B-SS-0.0-0.5	SL-108-SA5B-SS-0.0-0.5	SL-109-SA5B-SS-0.0-0.5	SL-114-SA5B-SS-0.0-0.5	SL-117-SA5B-SS-0.0-0.5	SL-118-SA5B-SS-0.0-0.5	SL-119-SA5B-SS-0.0-0.5
		Sample Date	12/14/2010	12/22/2010	12/22/2010	12/22/2010	12/13/2010	12/14/2010	12/14/2010	12/14/2010	12/22/2010	12/22/2010	12/22/2010	12/14/2010
		Lab SDG	DE038	DE051	DE051	DE051	DE036	DE038	DE038	DE038	DE051	DE051	DE051	DE038
		Start Depth	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
Chemical Name	Unit		Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Dichlorprop	ug/kg		1.8 U	2 U	2 U	1.9 U	1.9 U	1.8 U	1.8 U	1.8 U	2.1 U	2 J	2 U	1.8 U
Dicamba	ug/kg		1.2 U	2.3 U	1.4 U	1.4 U	1.4 U	1.3 U	1.3 U	1.3 U	1.5 U	3.1	1.4 U	1.3 U
2,2-Dichlor-Propionic Acid	ug/kg		9.3 U	10 U	11 U	10 U	10 U	9.4 U	9.4 U	9.6 U	11 U	11 U	11 U	9.7 U
Dinitrobutyl Phenol	ug/kg		2.5 R	2.8 R	2.8 R	2.7 R	2.7 R	2.5 R	2.5 R	2.5 R	3 R	3 R	2.8 R	2.6 R
MCPP	ug/kg		150 J	290 UJ	290 U	280 U	280 U	260 U	460 U	340	310 U	310 U	390	2700 U
2,4,5-TP	ug/kg		0.18 U	0.2 U	0.2 U	0.19 U	0.19 U	0.18 U	0.18 U	0.18 U	0.21 U	0.36 U	0.2 U	0.18 U
2,4,5-T	ug/kg		0.18 U	0.12 J	0.2 U	0.19 U	0.19 U	0.18 U	0.18 U	0.18 U	0.21 U	0.21 U	0.2 U	0.18 U
MCPA	ug/kg		260 U	290 U	180 J	280 U	550	290	530 U	270 U	310 U	240 J	110 J	310 U
2,4-D	ug/kg		3.7 U	4.2 U	4.2 U	4.1 U	4.1 U	3.8 U	3.8 U	3.8 U	4.5 U	4.5 U	4.2 U	3.9 U
2,4 DB	ug/kg		2.5	2 UJ	2 U	1.9 U	3.7	4.3	4.5	4.2	2.1 U	2.1 U	7.9 U	4.3 U
Toxaphene	ug/kg		6.8 U	7.7 U	7.8 UJ	7.5 U	7.4 U	6.9 U	6.9 U	7 U	8.2 U	8.2 U	7.8 U	7.1 U
Heptachlor Epoxide	ug/kg		0.17 U	0.19 U	0.2 UJ	0.19 U	0.7 U	0.17 U	0.17 U	0.18 U	0.21 U	0.21 U	0.2 U	0.18 U
Endosulfan Sulfate	ug/kg		0.35 U	0.39 U	0.2 J	0.38 U	0.38 U	0.35 U	0.36 U	0.36 U	0.42 U	0.42 U	0.4 U	0.37 U
Mirex	ug/kg		0.35 U	0.39 U	0.4 UJ	0.38 U	0.38 U	0.35 U	0.36 U	0.36 U	0.42 U	0.13 J	0.4 U	0.37 U
Aldrin	ug/kg		0.17 U	0.19 U	0.2 UJ	0.19 U	0.19 U	0.17 U	0.17 U	0.18 U	0.21 U	0.21 U	0.2 U	0.18 U
Alpha-BHC	ug/kg		0.17 U	0.19 U	0.2 UJ	0.19 U	0.19 U	0.17 U	0.17 U	0.18 U	0.21 U	0.21 U	0.2 U	0.18 U
Beta-BHC	ug/kg		0.17 U	0.19 U	0.2 UJ	0.19 U	0.19 U	0.17 U	0.17 U	0.18 U	0.21 U	0.21 U	0.2 U	0.18 U
Delta-BHC	ug/kg		0.17 U	0.19 U	0.2 UJ	0.19 U	0.19 U	0.17 U	0.17 U	0.18 U	0.21 U	0.21 U	0.2 U	0.051 J
Endosulfan II	ug/kg		0.35 U	0.39 U	0.4 UJ	0.38 U	0.38 U	0.35 U	0.36 U	0.36 U	0.42 U	0.42 U	0.4 U	0.37 U
4,4'-DDT	ug/kg		0.35 U	0.39 U	0.4 UJ	0.38 U	0.38 U	0.35 U	0.38 U	0.39 U	0.42 U	0.1 J	0.4 U	0.37 U
Endrin Ketone	ug/kg		0.35 U	0.39 U	0.4 UJ	0.38 U	0.38 U	0.35 U	0.36 U	0.36 U	0.42 U	0.42 U	0.4 U	0.37 U
Chlordane	ug/kg		3.5 U	3.9 U	4 UJ	3.8 U	3.8 U	3.5 U	3.6 U	3.6 U	4.2 U	4.2 U	4 U	3.7 U
Gamma-BHC (Lindane)	ug/kg		0.17 U	0.19 U	0.2 UJ	0.19 U	0.19 U	0.17 U	0.17 U	0.18 U	0.21 U	0.21 U	0.2 U	0.18 U
Dieldrin	ug/kg		0.35 U	0.39 U	0.4 UJ	0.38 U	0.38 U	0.35 U	0.36 U	0.36 U	0.42 U	0.42 U	0.4 U	0.37 U
Endrin	ug/kg		0.35 U	0.39 U	0.4 UJ	0.38 U	0.38 U	0.35 U	0.36 U	0.36 U	0.42 U	0.42 U	0.4 U	0.37 U
Methoxychlor	ug/kg		1.7 U	1.9 U	2 UJ	1.9 U	1.9 U	1.7 U	1.7 U	1.8 U	2.1 U	2.1 U	2 U	1.8 U
4,4'-DDD	ug/kg		0.35 U	0.39 U	0.4 UJ	0.38 U	0.38 U	0.35 U	0.36 U	0.36 U	0.42 U	0.42 U	0.4 U	0.68 U
4,4'-DDE	ug/kg		0.35 U	0.39 U	0.4 UJ	0.38 U	0.38 U	0.35 U	0.36 U	0.36 U	0.42 U	0.42 U	0.4 U	0.37 U
Endrin Aldehyde	ug/kg		0.35 U	0.39 U	0.4 UJ	0.38 U	0.38 U	0.35 U	0.36 U	0.36 U	0.42 U	0.42 U	0.4 U	0.37 U
Heptachlor	ug/kg		0.17 U	0.19 U	0.2 UJ	0.19 U	0.19 U	0.17 U	0.17 U	0.18 U	0.21 U	0.21 U	0.2 U	0.18 U
Endosulfan I	ug/kg		0.17 U	0.19 U	0.2 UJ	0.19 U	0.19 U	0.17 U	0.17 U	0.18 U	0.21 U	0.21 U	0.2 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-5B

		Sample Name	SL-120-SA5B-SS-0.0-0.5	SL-121-SA5B-SS-0.0-0.5	SL-122-SA5B-SS-0.0-0.5	SL-123-SA5B-SS-0.0-0.5	SL-124-SA5B-SS-0.0-0.5	SL-125-SA5B-SS-0.0-0.5	SL-126-SA5B-SS-0.0-0.5	SL-128-SA5B-SS-0.0-0.5	SL-129-SA5B-SS-0.0-0.5	SL-131-SA5B-SS-0.0-0.5	SL-132-SA5B-SS-0.0-0.5	SL-133-SA5B-SS-0.0-0.5
		Sample Date	12/14/2010	12/14/2010	12/14/2010	12/14/2010	12/14/2010	12/14/2010	12/14/2010	12/14/2010	12/14/2010	12/15/2010	12/15/2010	12/15/2010
		Lab SDG	DE038	DE038	DE038	DE038	DE038	DE039	DE039	DE039	DE039	DE040	DE040	DE040
		Start Depth	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
Chemical Name	Unit		Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Dichlorprop	ug/kg		1.8 U	1.8 U	1.8 U	1.8 U	47 J	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U	1.8 U
Dicamba	ug/kg		1.3 U	1.3 U	1.3 U	0.51 J	1.3 U	1.3 U	1.3 U	0.42 J	1.3 U	1.3 U	1.4 U	1.3 U
2,2-Dichlor-Propionic Acid	ug/kg		9.4 R	9.5 U	9.5 U	9.6 U	9.5 U	9.5 UJ	9.4 UJ	9.5 UJ	9.5 UJ	9.5 U	10 U	9.7 U
Dinitrobutyl Phenol	ug/kg		2.5 R	2.5 R	2.5 R	2.6 R	2.5 R	2.5 R	2.5 R	2.5 R	2.5 R	2.5 R	2.7 R	2.6 R
MCPP	ug/kg		200 J	270 U	240 J	240 J	260 U	260 U	260 U	270 U	260 U	260 U	280 U	270 U
2,4,5-TP	ug/kg		0.18 U	0.18 U	0.33 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	0.18 U
2,4,5-T	ug/kg		0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.3 U	0.18 U	0.18 U	0.28	0.18 U
MCPA	ug/kg		720 J	420 U	990 J	270 U	260 U	260 UJ	260 UJ	3200 J	590 J	500	180 J	270 U
2,4-D	ug/kg		3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	4.1 U	3.9 U
2,4 DB	ug/kg		3.9	4.4	8 J	4.7 U	1.8 U	12 U	12 U	39 U	17 U	8.6 U	7.2 J	2.2
Toxaphene	ug/kg		6.9 U	7 U	7 U	7 U	7 U	7 U	6.9 U	7 U	70 U	6.9 U	170 U	140 U
Heptachlor Epoxide	ug/kg		0.17 U	0.13 J	0.18 U	0.27 J	0.18 U	0.18 U	0.17 U	0.18 UJ	1.8 UJ	0.17 U	4.3 U	3.6 U
Endosulfan Sulfate	ug/kg		0.35 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 UJ	1.8 J	0.36 U	8.8 U	7.3 U
Mirex	ug/kg		0.35 U	0.36 U	0.36 U	0.45 J	0.36 U	0.36 U	0.36 U	0.36 UJ	3.6 UJ	0.44 U	8.8 U	7.3 U
Aldrin	ug/kg		0.17 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.17 U	0.18 U	0.18 U	0.17 U	0.86 U	3.6 U
Alpha-BHC	ug/kg		0.17 U	0.18 U	0.18 U	0.46 J	0.18 U	0.18 U	0.17 U	0.18 U	0.18 U	0.17 U	0.86 U	3.6 U
Beta-BHC	ug/kg		0.17 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.12 J	0.22	0.065 J	0.17 U	1	3.6 U
Delta-BHC	ug/kg		0.17 U	0.18 U	0.18 U	0.12 J	0.18 U	0.18 U	0.042 J	0.18 U	0.093 J	0.17 U	0.86 U	3.6 U
Endosulfan II	ug/kg		0.35 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 UJ	3.6 UJ	0.36 UJ	8.8 UJ	7.3 UJ
4,4'-DDT	ug/kg		0.35 U	0.36 J	0.36 U	4.2 J	1.7 U	1.8 U	0.73 U	0.9 UJ	7.9 J	0.54 U	9.2 U	340
Endrin Ketone	ug/kg		0.35 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 UJ	3.6 UJ	0.36 U	8.8 U	7.3 U
Chlordane	ug/kg		3.5 U	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	3.8 U	36 U	3.6 U	570	660
Gamma-BHC (Lindane)	ug/kg		0.17 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.065 J	0.18 U	0.058 J	0.17 U	0.86 U	3.6 U
Dieldrin	ug/kg		0.35 U	0.36 U	0.36 U	1.2 U	0.36 U	0.36 U	0.36 U	0.36 UJ	1 J	3.9	8.8 U	12 U
Endrin	ug/kg		0.35 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 UJ	3.6 UJ	0.36 U	8.8 U	7.3 U
Methoxychlor	ug/kg		1.7 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.7 U	1.8 UJ	18 UJ	1.7 U	43 U	36 U
4,4'-DDD	ug/kg		0.35 U	0.36 U	0.36 U	0.36 U	1.5 U	0.36 U	0.36 U	0.36 U	0.99 J	0.36 U	8.8 U	44 U
4,4'-DDE	ug/kg		0.35 U	0.093 J	0.36 U	3.2 J	0.55 U	30	1.8 U	2.4 UJ	210	0.36 U	8.8 U	350
Endrin Aldehyde	ug/kg		0.35 U	0.36 U	0.36 U	2.2 J	0.36 U	0.36 U	0.36 U	0.36 UJ	0.86 J	0.36 U	13 U	7.3 U
Heptachlor	ug/kg		0.17 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.17 U	0.18 U	0.18 U	0.17 U	0.36 J	3.6 U
Endosulfan I	ug/kg		0.17 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.17 U	0.18 UJ	1.8 UJ	0.17 U	4.3 U	3.6 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-5B

	Sample Name	SL-134-SA5B-SS-0.0-0.5	SL-135-SA5B-SS-0.0-0.5	SL-136-SA5B-SS-0.0-0.5	SL-137-SA5B-SS-0.0-0.5	SL-138-SA5B-SS-0.0-0.5	SL-139-SA5B-SS-0.0-0.5	SL-140-SA5B-SS-0.0-0.5	SL-141-SA5B-SS-0.0-0.5	SL-142-SA5B-SS-0.0-0.5	SL-143-SA5B-SS-0.0-0.5	SL-144-SA5B-SS-0.0-0.5	SL-147-SA5B-SS-0.0-0.5
	Sample Date	12/15/2010	12/15/2010	12/15/2010	01/06/2011	02/11/2011	12/13/2010	01/04/2011	02/11/2011	12/14/2010	12/14/2010	02/11/2011	12/16/2010
	Lab SDG	DE040	DE040	DE040	DE054	DE081	DE036	DE052	DE081	DE038	DE038	DE081	DE042
	Start Depth	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
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Dichlorprop	ug/kg	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	2 U	1.8 U	1.8 U	1.8 U	1.9 U	1.9 U
Dicamba	ug/kg	1.3 U	0.6 J	1.3 U	1.3 U	1.3 U	1.4 U	1.4 U	1.3 U	1.3 U	1.2 U	1.3 U	1.4 U
2,2-Dichlor-Propionic Acid	ug/kg	9.5 U	10 U	9.9 U	9.9 R	9.9 U	10 U	10 U	9.7 U	9.6 U	9.3 U	9.9 U	10 U
Dinitrobutyl Phenol	ug/kg	2.5 R	2.7 R	2.6 R	2.6 R	0.88 J	2.7 R	2.8 R	2.6 U	2.6 R	2.5 R	2.6 U	2.7 R
MCPP	ug/kg	200 J	280 U	110 J	280 U	370 U	350	290 U	110 J	91 J	370	100 J	1800 U
2,4,5-TP	ug/kg	0.18 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.2 U	0.18 U	0.18 U	0.18 U	0.19 U	0.19 U
2,4,5-T	ug/kg	0.18 U	0.3 U	0.14 J	0.19 U	0.3 U	0.19 U	0.2 U	0.18 U	0.18 U	0.18 U	0.19 U	0.21
MCPA	ug/kg	170 J	280 U	270 U	280 U	290	280 U	290 U	270 U	270 U	260 U	160 J	260 J
2,4-D	ug/kg	3.8 U	4 U	3.9 U	4 U	4 U	4.1 U	4.2 U	3.9 U	3.8 U	3.7 U	4 U	4.1 U
2,4 DB	ug/kg	1.8 U	27 U	1.9 U	3.1	6.3	1.9 U	1.6 J	4.1 U	1.1 J	3.7 U	2.1	1.9 U
Toxaphene	ug/kg	6.9 U	73 U	7.2 U	7.3 U	36 U	75 U	7.6 U	7.1 UJ	7 U	6.9 U	7.3 UJ	7.6 U
Heptachlor Epoxide	ug/kg	0.17 U	1.8 U	0.18 U	0.18 U	0.91 U	4.3 U	0.19 U	0.18 UJ	0.15 J	0.17 U	0.18 UJ	1.4 U
Endosulfan Sulfate	ug/kg	0.4 U	3.8 U	0.37 U	0.37 U	1.9 U	3.9 U	0.39 U	0.37 UJ	0.36 U	0.35 U	0.37 UJ	0.39 U
Mirex	ug/kg	0.36 U	3.8 U	0.53 U	0.37 U	1.9 U	3.9 U	0.39 U	0.37 UJ	0.36 U	0.35 U	0.37 UJ	0.64 U
Aldrin	ug/kg	0.17 U	1.8 U	0.18 U	0.18 U	0.18 U	1.9 U	0.19 U	0.18 UJ	0.18 U	0.17 U	0.18 UJ	0.19 U
Alpha-BHC	ug/kg	0.073 J	1.8 U	0.18 U	0.18 U	0.18 U	1.9 U	0.19 U	0.18 UJ	0.18 U	0.17 U	0.18 UJ	0.19 U
Beta-BHC	ug/kg	0.22 U	1.8 U	0.18 U	0.18 U	0.18 U	1.9 U	0.19 U	0.25 J	0.18 U	0.17 U	0.18 UJ	0.19 U
Delta-BHC	ug/kg	0.054 J	1.8 U	0.18 U	0.18 U	0.18 U	1.9 U	0.19 U	0.18 UJ	0.18 U	0.17 U	0.18 UJ	0.19 U
Endosulfan II	ug/kg	0.36 UJ	3.8 UJ	0.37 UJ	0.37 U	1.9 U	4.8 U	0.39 U	0.37 UJ	0.36 U	0.35 U	0.37 UJ	0.39 U
4,4'-DDT	ug/kg	4.2	14	0.71 U	0.49 U	3 U	48 U	0.39 U	0.64 J	0.13 J	0.35 U	0.37 UJ	7.4 U
Endrin Ketone	ug/kg	0.36 U	3.8 U	0.37 U	0.37 U	1.9 U	3.9 U	0.39 U	0.37 UJ	0.36 U	0.35 U	0.37 UJ	0.39 U
Chlordane	ug/kg	3.6 U	38 U	3.7 U	3.7 U	22 U	39 U	3.9 U	3.7 UJ	3.6 U	3.5 U	3.7 UJ	7.2 U
Gamma-BHC (Lindane)	ug/kg	0.17 U	0.87 J	0.18 U	0.18 U	0.18 U	1.9 U	0.19 U	0.18 UJ	0.18 U	0.17 U	0.18 UJ	0.19 U
Dieldrin	ug/kg	0.36 U	3.8 U	0.37 U	0.37 U	1.9 U	14 U	0.39 U	0.17 J	0.36 U	0.35 U	0.37 UJ	1.4 U
Endrin	ug/kg	0.36 U	3.8 U	0.37 U	0.37 U	1.9 U	3.9 U	0.39 U	0.37 UJ	0.36 U	0.35 U	0.37 UJ	0.39 U
Methoxychlor	ug/kg	1.7 U	18 U	1.8 U	1.8 U	9.1 U	19 U	1.9 U	1.8 UJ	1.8 U	1.7 U	1.8 UJ	1.9 U
4,4'-DDD	ug/kg	2 U	6.2	0.37 U	0.37 U	1.9 U	3.9 U	0.39 U	0.37 UJ	0.36 U	0.35 U	0.37 UJ	0.97 U
4,4'-DDE	ug/kg	1.3 U	26	0.37 U	0.37 U	1.9 U	21 U	0.39 U	0.57 J	0.36 J	0.35 U	0.37 UJ	0.84 U
Endrin Aldehyde	ug/kg	0.62 U	5.2 U	0.37 U	0.37 U	1.9 U	3.9 U	0.39 U	0.37 UJ	0.36 U	0.35 U	0.37 UJ	2.6 U
Heptachlor	ug/kg	0.17 U	1.8 U	0.18 U	0.18 U	0.18 U	1.9 U	0.19 R	0.18 UJ	0.18 U	0.17 U	0.18 UJ	0.19 U
Endosulfan I	ug/kg	0.17 U	1.8 U	0.18 U	0.18 U	0.91 U	1.9 U	0.19 U	0.18 UJ	0.18 U	0.17 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-5B

	Sample Name	SL-149-SA5B-SS-0.0-0.5	SL-150-SA5B-SS-0.0-0.5	SL-153-SA5B-SS-0.0-0.5	SL-155-SA5B-SS-0.0-0.5	SL-156-SA5B-SS-0.0-0.5	SL-159-SA5B-SS-0.0-0.5	SL-160-SA5B-SS-0.0-0.5	SL-161-SA5B-SS-0.0-0.5	SL-162-SA5B-SS-0.0-0.5	SL-166-SA5B-SS-0.0-0.5	SL-169-SA5B-SS-0.0-0.5	SL-172-SA5B-SS-0.0-0.5
	Sample Date	12/15/2010	12/15/2010	12/15/2010	12/15/2010	12/15/2010	12/21/2010	12/17/2010	12/17/2010	12/17/2010	12/17/2010	12/16/2010	12/16/2010
	Lab SDG	DE040	DE040	DE040	DE040	DE040	DE049	DE044	DE044	DE044	DE044	DE042	DE042
	Start Depth	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
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Dichlorprop	ug/kg	1.8 U	1.8 U	2 U	1.2 J	0.97 J	2 U	1.9 U	2 U	2 U	1.8 U	1.9 U	1.8 U
Dicamba	ug/kg	1.3 U	1.3 U	1.4 U	0.48 J	0.8 J	1.4 U	1.3 U	1.4 U	1.4 U	1.3 U	1.4 U	1.3 U
2,2-Dichlor-Propionic Acid	ug/kg	9.4 U	9.5 U	10 U	9.4 U	9.7 U	10 U	10 U	11 U	11 U	9.4 U	10 U	9.5 U
Dinitrobutyl Phenol	ug/kg	2.5 R	2.5 R	2.8 R	2.5 R	2.6 R	2.8 R	2.7 R	2.9 R	2.9 R	2.5 R	2.7 R	2.5 R
MCPP	ug/kg	200 U	350 U	180 U	290	580	290 U	280 U	300 U	300 U	260 U	520 U	260 U
2,4,5-TP	ug/kg	0.18 U	0.18 U	0.2 U	0.18 U	0.18 U	0.2 U	0.19 U	0.2 U	0.4 U	0.28 U	0.19 U	0.31 U
2,4,5-T	ug/kg	0.23 U	0.18 U	0.2 U	0.15 J	0.18 U	0.2 UJ	0.19 U	0.2 U	0.2 U	0.18 U	0.19 U	0.18 U
MCPA	ug/kg	570	390	300	810	680	290 U	440	450	300	260 U	510	280
2,4-D	ug/kg	3.8 U	3.8 U	4.1 U	3.8 U	2.2 J	4.2 U	4 U	4.3 U	4.3 U	3.8 U	4.1 U	3.8 U
2,4 DB	ug/kg	1.8 U	1.8 U	8.6 U	9.2 U	14 U	2 U	5 U	2 U	5.3	1.8 U	15 U	1.8 U
Toxaphene	ug/kg	6.9 UJ	6.9 U	7.6 U	6.9 U	140 U	7.7 U	7.3 U	7.9 U	79 U	6.9 U	7.5 U	7 U
Heptachlor Epoxide	ug/kg	0.17 UJ	0.19 U	0.19 U	0.17 U	16 U	0.19 U	0.23 U	0.22 U	2 U	0.17 U	0.25 U	0.18 U
Endosulfan Sulfate	ug/kg	0.35 UJ	0.36 U	0.39 U	0.36 U	7.3 U	0.4 U	0.38 U	0.41 U	4.1 U	0.35 U	0.39 U	0.36 U
Mirex	ug/kg	0.35 UJ	0.73 U	0.39 U	0.36 U	7.3 U	0.4 U	0.38 U	0.41 U	4.1 U	0.35 U	0.39 U	0.36 U
Aldrin	ug/kg	0.17 UJ	0.17 U	0.19 U	0.17 U	3.6 U	0.19 U	0.18 U	0.2 U	2 U	0.17 U	0.19 U	0.18 U
Alpha-BHC	ug/kg	0.17 UJ	0.17 U	0.19 U	0.38	3.6 U	0.19 UJ	0.048 J	0.2 U	2 U	0.17 U	0.057 J	0.09 J
Beta-BHC	ug/kg	0.17 UJ	0.078 J	0.19 U	0.17 U	3.6 U	0.19 U	0.18 U	0.2 U	2 U	0.17 U	0.19 U	0.18 U
Delta-BHC	ug/kg	0.17 UJ	0.059 J	0.19 U	0.17 U	3.6 U	0.19 U	0.14 J	0.2 U	2 U	0.17 U	0.056 J	0.15 J
Endosulfan II	ug/kg	0.35 UJ	0.36 UJ	0.39 UJ	0.36 UJ	7.3 UJ	0.4 U	0.38 U	1.1 U	3.5 U	0.35 U	0.39 U	0.36 U
4,4'-DDT	ug/kg	1.3 UJ	1.8 U	0.88 U	1.3 U	20 U	0.4 U	1.6 U	9.7	60 U	1.3 U	0.82 U	0.36 U
Endrin Ketone	ug/kg	0.35 UJ	0.36 U	0.39 U	0.36 U	7.3 U	0.4 U	0.38 U	0.41 U	4.1 U	0.35 U	0.39 U	0.36 U
Chlordane	ug/kg	3.5 UJ	3.6 U	3.9 U	3.6 U	73 U	4 U	3.8 U	4.9 U	41 U	3.5 U	3.9 U	3.6 U
Gamma-BHC (Lindane)	ug/kg	0.17 UJ	0.17 U	0.19 U	7.3 U	3.6 U	0.19 UJ	0.16 J	0.2 U	2 U	0.17 U	0.19 U	0.036 J
Dieldrin	ug/kg	0.85 UJ	0.48 U	0.39 U	0.36 U	7.3 U	0.4 U	0.38 UJ	1.3 UJ	7.2 UJ	0.35 UJ	0.39 U	0.36 U
Endrin	ug/kg	0.35 UJ	0.36 U	0.39 U	0.1 J	7.3 U	0.4 U	0.38 U	0.41 U	6.6 U	0.35 U	0.39 U	0.36 U
Methoxychlor	ug/kg	1.7 UJ	1.7 U	1.9 U	1.7 U	36 U	1.9 U	1.8 U	2 U	20 U	1.7 U	1.9 U	1.8 U
4,4'-DDD	ug/kg	0.35 UJ	0.36 U	0.39 U	0.36 U	7.3 U	0.4 U	0.38 U	0.96 U	4.1 U	0.35 U	0.39 U	0.36 U
4,4'-DDE	ug/kg	0.35 UJ	0.69 U	0.39 U	0.36 U	8.4 U	0.4 U	0.38 U	0.83 U	4.1 U	0.35 U	0.82 U	0.36 U
Endrin Aldehyde	ug/kg	0.35 UJ	0.36 U	0.39 U	0.36 U	7.3 U	0.4 U	0.38 U	1 U	25 U	0.35 U	0.39 U	0.36 U
Heptachlor	ug/kg	0.17 UJ	0.17 U	0.19 U	3.5 U	3.6 U	0.19 U	0.18 U	0.21 U	2 U	0.17 U	0.19 U	0.18 U
Endosulfan I	ug/kg	0.17 UJ	0.17 U	0.19 U	0.17 U	3.6 U	0.19 U	0.18 U	0.2 U	2 U	0.17 U	0.19 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-5B

		Sample Name	SL-173-SA5B-SS-0.0-0.5	SL-176-SA5B-SS-0.0-0.5	SL-178-SA5B-SS-0.0-0.5	SL-181-SA5B-SS-0.0-0.5	SL-183-SA5B-SS-0.0-0.5	SL-186-SA5B-SS-0.0-0.5	SL-187-SA5B-SS-0.0-0.5	SL-189-SA5B-SS-0.0-0.5	SL-192-SA5B-SS-0.0-0.5	SL-194-SA5B-SS-0.0-0.5	SL-196-SA5B-SS-0.0-0.5	SL-198-SA5B-SS-0.0-0.5
		Sample Date	12/16/2010	12/16/2010	12/16/2010	12/15/2010	12/21/2010	12/16/2010	12/16/2010	12/16/2010	12/16/2010	12/16/2010	12/16/2010	12/16/2010
		Lab SDG	DE042	DE042	DE042	DE040	DE049	DE042	DE042	DE042	DE042	DE042	DE042	DE042
		Start Depth	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
Chemical Name	Unit		Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Dichlorprop	ug/kg		7	1.4 J	2.2 U	1.8 U	2 U	1.8 U	1.8 U	1.8 U	1.8 U	3 U	4.1 U	1.8 U
Dicamba	ug/kg		1.3 U	1.3 U	0.55 J	1.3 U	1.4 U	1.3 U	0.52 J	0.49 J	0.84 J	0.46 J	1.3 U	1.3 U
2,2-Dichlor-Propionic Acid	ug/kg		9.6 U	9.5 U	12 U	9.8 U	11 U	9.7 U	9.5 U	9.7 R	9.7 U	10 U	9.5 U	9.6 U
Dinitrobutyl Phenol	ug/kg		2.6 R	2.5 R	3.1 R	2.6 R	2.9 R	2.7 R	2.5 R	2.6 R	2.6 R	2.7 R	2.5 R	2.6 R
MCPP	ug/kg		270 U	430 U	320 U	330	300 U	270 U	590 U	610 R	470 U	590 U	560 U	540 U
2,4,5-TP	ug/kg		0.18 U	0.18 U	0.22 U	0.18 U	0.2 U	0.31	0.18 U	0.18 U	0.18 U	0.19 U	0.27 U	0.41 U
2,4,5-T	ug/kg		0.18 U	0.3 U	0.74	0.18 U	0.2 UJ	0.18 U	0.18 U	0.18 U	0.18 U	0.19 U	0.18 U	0.18 U
MCPA	ug/kg		270 U	290 U	400	270 U	400	290 U	910	270 U	270 U	280 U	260 U	270 U
2,4-D	ug/kg		3.8 U	3.8 U	4.6 U	3.9 U	4.3 U	3.9 U	3.8 U	3.9 U	3.9 U	4 U	3.8 U	3.8 U
2,4 DB	ug/kg		22 U	1.8 U	21	6.3 U	2 U	1.8 U	1.8 U	1.8 U	14 U	23 U	22 U	17 U
Toxaphene	ug/kg		7 U	35 U	85 U	7.2 U	7.8 R	7.1 U	7 R	7.1 U	36 U	7.3 R	7 R	7.1 U
Heptachlor Epoxide	ug/kg		0.18 U	17 U	2.1 U	0.18 U	0.2 R	0.18 U	0.18 R	0.18 U	0.89 U	0.18 R	0.4 R	0.18 U
Endosulfan Sulfate	ug/kg		0.36 U	1.8 U	4.4 U	0.52 U	0.53 R	0.37 U	0.36 R	0.37 U	1.8 U	0.38 R	0.36 R	0.36 U
Mirex	ug/kg		0.36 U	8.1 U	4.4 U	0.4 U	0.4 R	0.37 U	0.36 R	0.37 U	1.8 U	0.38 R	0.87 R	1.3 U
Aldrin	ug/kg		0.18 U	0.87 U	2.1 U	0.18 U	0.2 R	0.18 U	0.18 R	0.18 U	0.89 U	0.18 R	0.084 J	0.18 U
Alpha-BHC	ug/kg		0.18 U	0.87 U	2.1 U	0.18 U	0.2 R	0.18 U	0.18 R	0.18 U	0.89 U	0.14 J	0.043 J	0.18 U
Beta-BHC	ug/kg		0.18 U	0.87 U	2.1	0.18 U	0.2 R	0.08 J	0.18 R	0.18 U	0.89 U	0.18 R	0.17 R	0.14 J
Delta-BHC	ug/kg		0.18 U	0.87 U	2.1 U	0.045 J	0.2 R	0.18 U	0.43 J	0.18 U	0.89 U	0.18 R	0.17 R	0.18 U
Endosulfan II	ug/kg		0.36 U	8.3 U	4.4 U	0.37 UJ	0.4 R	0.37 U	0.36 R	0.37 U	1.8 U	0.38 R	0.36 R	0.36 U
4,4'-DDT	ug/kg		0.47 U	1.8 U	5.1 U	0.58 U	0.7 R	0.48 U	0.54 R	0.37 U	1.8 U	0.51 R	0.48 R	0.41 U
Endrin Ketone	ug/kg		0.36 U	1.8 U	4.4 U	0.37 U	0.4 R	0.37 U	0.36 R	0.37 U	1.8 U	0.38 R	0.37 R	0.36 U
Chlordane	ug/kg		3.6 U	18 U	44 U	3.7 U	4 R	3.7 U	3.6 R	3.7 U	18 U	5 R	3.6 R	3.6 U
Gamma-BHC (Lindane)	ug/kg		0.18 U	0.87 U	2.1 U	0.18 U	0.2 R	0.18 U	0.18 R	0.18 U	0.89 U	0.18 R	0.048 J	0.18 U
Dieldrin	ug/kg		0.36 U	5.7 U	4.4 U	0.37 U	0.4 R	0.37 U	0.36 R	0.37 U	1.8 U	0.38 R	0.36 R	0.36 U
Endrin	ug/kg		0.36 U	1.8 U	4.4 U	0.37 U	0.4 R	0.37 U	0.36 R	0.37 U	1.8 U	0.38 R	0.36 R	0.36 U
Methoxychlor	ug/kg		1.8 U	24 U	21 U	1.8 U	2 R	1.8 U	1.8 R	1.8 U	8.9 U	1.8 R	1.7 R	1.8 U
4,4'-DDD	ug/kg		0.36 U	3.5 U	4.4 U	0.37 U	0.4 R	0.37 U	0.37 J	0.37 U	1.8 U	0.38 R	0.36 R	0.36 U
4,4'-DDE	ug/kg		0.45 U	36 U	4.4 U	0.37 U	0.4 R	0.37 U	0.43 R	0.37 U	1.8 U	0.38 R	0.43 R	0.36 U
Endrin Aldehyde	ug/kg		0.36 U	6.8 U	4.4 U	0.37 U	0.4 R	0.37 U	0.36 R	0.37 U	1.8 U	0.38 R	0.36 R	0.36 U
Heptachlor	ug/kg		0.18 U	0.46 J	2.1 U	0.18 U	0.2 R	0.18 U	0.18 R	0.18 U	0.89 U	0.44 R	0.17 R	0.18 U
Endosulfan I	ug/kg		0.18 U	0.87 U	2.1 U	0.18 U	0.2 R	0.18 U	0.18 R	0.18 U	0.89 U	0.18 R	0.17 R	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-5B

		Sample Name	SL-199-SA5B-SS-0.0-0.5	SL-202-SA5B-SS-0.0-0.5	SL-203-SA5B-SS-0.0-0.5	SL-204-SA5B-SS-0.0-0.5	SL-205-SA5B-SS-0.0-0.5	SL-206-SA5B-SS-0.0-0.5	SL-207-SA5B-SS-0.0-0.5	SL-208-SA5B-SS-0.0-0.5	SL-209-SA5B-SS-0.0-0.5	SL-210-SA5B-SS-0.0-0.5	SL-211-SA5B-SS-0.0-0.5	SL-212-SA5B-SS-0.0-0.5
		Sample Date	12/16/2010	12/16/2010	12/15/2010	12/15/2010	12/16/2010	12/17/2010	12/17/2010	12/17/2010	12/17/2010	12/17/2010	12/17/2010	12/20/2010
		Lab SDG	DE042	DE042	DE040	DE040	DE043	DE044	DE044	DE044	DE044	DE044	DE044	DE047
		Start Depth	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
Chemical Name	Unit		Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Dichlorprop	ug/kg		1.8 U	1.8 U	22 J	36 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U	2.1 U
Dicamba	ug/kg		1.3 U	1.3 U	0.47 J	26 U	0.83 J	1.3 U	0.68 J	0.75 J	1.3 U	1.3 U	1.4 U	1.4 U
2,2-Dichlor-Propionic Acid	ug/kg		9.6 U	9.6 U	9.8 U	190 U	9.5 U	9.4 U	9.6 U	9.4 U	9.6 U	9.5 U	10 R	11 U
Dinitrobutyl Phenol	ug/kg		2.6 R	2.6 R	2.6 R	51 R	2.5 R	2.5 R	2.5 R	1.2 J	2.6 R	2.5 R	2.7 R	2.9 R
MCPP	ug/kg		220 J	560 U	270 U	5400 U	260 U	300	270 U	260 U	270 U	210 J	280 U	300 U
2,4,5-TP	ug/kg		0.18 U	0.18 U	0.19 U	3.6 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.19 U	0.36
2,4,5-T	ug/kg		0.18 U	0.18 U	0.19 U	3.6 U	0.18 U	0.18 U	0.31	0.18 U	0.18 U	0.18 U	0.19 U	0.21 U
MCPA	ug/kg		570	310	270 U	5400 U	260 U	930	1000	700 J	440	520	290	640
2,4-D	ug/kg		3.8 U	3.9 U	3.7 J	77 U	3.8 U	3.8 U	3.8 U	3.8 U	3.9 U	3.8 U	4.1 U	4.3 U
2,4 DB	ug/kg		1.8 U	17 U	1.9 U	36 U	7.2 U	1.8 U	12	22 J	1.8 U	1.8 U	14 J	17
Toxaphene	ug/kg		7 U	7.1 U	7.2 R	35 U	7 U	6.9 U	7 U	6.9 U	7.1 U	7 U	7.4 U	8 U
Heptachlor Epoxide	ug/kg		0.21 U	0.18 U	0.18 R	0.89 U	0.18 U	0.17 U	0.18 U	0.17 U	0.18 U	0.17 U	0.24 U	0.45 U
Endosulfan Sulfate	ug/kg		0.36 U	0.36 U	0.37 R	7.3 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.38 U	0.41 U
Mirex	ug/kg		0.36 U	0.36 U	2.2 R	7.3 U	0.36 U	0.36 U	0.36 U	0.36 U	0.88 U	0.36 U	0.38 U	1.1 U
Aldrin	ug/kg		0.18 U	0.18 U	0.18 R	0.89 U	0.18 U	0.17 U	0.18 U	0.17 U	0.18 U	0.17 U	0.19 U	0.2 U
Alpha-BHC	ug/kg		0.18 U	0.18 U	0.18 R	0.89 U	0.18 U	0.17 U	0.18 U	0.17 U	0.18 U	0.17 U	0.088 J	0.2 U
Beta-BHC	ug/kg		0.27 U	0.18 U	1.8 U	0.89 U	0.18 U	0.17 U	0.18 U	0.17 U	0.24	0.17 U	0.19 U	0.25
Delta-BHC	ug/kg		0.18 U	0.18 U	0.18 R	0.89 U	0.18 U	0.17 U	0.18 U	0.17 U	0.18 U	0.17 U	0.19 U	0.097 J
Endosulfan II	ug/kg		0.36 U	0.36 U	0.37 R	1.8 UJ	0.19 J	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	1.2 U	0.41 U
4,4'-DDT	ug/kg		0.73 U	0.64 U	1.1 R	5.1 U	1.5 J	0.36 U	0.53 U	0.36 U	3.2 U	2.8	11 U	2.3 U
Endrin Ketone	ug/kg		0.36 U	0.36 U	0.37 R	7.3 U	0.099 J	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.38 U	0.41 U
Chlordane	ug/kg		3.6 U	4.6 U	3.7 R	18 U	2 J	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	5.9 U	5.1 U
Gamma-BHC (Lindane)	ug/kg		0.18 U	0.18 U	0.18 R	0.89 U	0.18 U	0.17 U	0.18 U	0.17 U	0.18 U	0.17 U	0.19 U	0.2 U
Dieldrin	ug/kg		0.36 U	0.36 U	0.37 R	1.8 U	0.36 U	0.36 UJ	0.36 UJ	0.36 UJ	0.36 UJ	0.36 UJ	7.6 UJ	0.41 U
Endrin	ug/kg		0.36 U	0.36 U	0.37 R	1.8 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.38 U	0.41 U
Methoxychlor	ug/kg		1.8 U	1.8 U	18 U	36 U	1.8 U	1.7 U	1.8 U	1.7 U	1.8 U	1.7 U	1.9 U	2 U
4,4'-DDD	ug/kg		0.36 U	0.68 U	1 R	3 U	0.6 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.81 U	0.41 U
4,4'-DDE	ug/kg		0.38 U	0.36 U	0.37 R	1.8 U	0.27 J	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	1.3 U	0.41 U
Endrin Aldehyde	ug/kg		0.36 U	0.36 U	1.6 R	7.3 U	0.18 J	0.36 U	0.36 U	0.36 U	0.41 U	0.36 U	1.7 U	0.93 U
Heptachlor	ug/kg		0.18 U	0.18 U	0.21 R	0.89 U	0.18 U	0.17 U	0.18 U	0.17 U	0.18 U	0.17 U	0.19 U	0.2 U
Endosulfan I	ug/kg		0.18 U	0.18 U	0.18 R	0.89 U	0.18 U	0.17 U	0.18 U	0.17 U	0.18 U	0.17 U	0.19 U	0.2 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-5B

		Sample Name	SL-213-SA5B-SS-0.0-0.5	SL-214-SA5B-SS-0.0-0.5	SL-215-SA5B-SS-0.0-0.5	SL-216-SA5B-SS-0.0-0.5	SL-217-SA5B-SS-0.0-0.5	SL-219-SA5B-SS-0.0-0.5	SL-225-SA5B-SS-0.0-0.5	SL-226-SA5B-SS-0.0-0.5	SL-227-SA5B-SS-0.0-0.5	SL-228-SA5B-SS-0.0-0.5	SL-229-SA5B-SS-0.0-0.5	SL-230-SA5B-SS-0.0-0.5
		Sample Date	12/20/2010	12/20/2010	12/20/2010	12/20/2010	12/20/2010	12/21/2010	12/21/2010	12/21/2010	12/21/2010	12/10/2010	12/10/2010	12/09/2010
		Lab SDG	DE047	DE047	DE047	DE047	DE047	DE049	DE049	DE049	DE049	DE034	DE034	DE031
		Start Depth	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
Chemical Name	Unit		Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Dichlorprop	ug/kg		1.9 U	2.2 U	2.4 U	2.1 U	1.5 J	2.2 U	2.3 U	2.1 U	2.1 U	2.3 U	1.9 U	1.9 U
Dicamba	ug/kg		1.3 U	1.6 U	1.7 U	1.5 U	1.7 U	1.5 U	1.6 U	1.5 U	1.5 U	1.7 U	1.4 U	1.3 U
2,2-Dichlor-Propionic Acid	ug/kg		10 U	12 U	13 U	11 U	13 U	12 U	12 U	11 U	11 U	12 U	10 U	10 U
Dinitrobutyl Phenol	ug/kg		2.7 R	3.1 R	3.3 R	3 R	3.4 R	3.1 R	3.2 R	3 R	2.9 R	3.3 R	2.7 R	2.7 R
MCPP	ug/kg		280 U	320 U	350 UJ	310 U	350 U	320 U	330 U	310 U	300 U	810	180 J	280 U
2,4,5-TP	ug/kg		0.19 U	0.22 U	0.24 U	0.17 J	0.57	0.74 J	0.23 U	0.21 U	0.38	0.23 U	0.19 U	0.19 U
2,4,5-T	ug/kg		0.19 U	0.22 U	0.24 U	0.21 U	0.78	0.61 J	0.44 UJ	0.21 UJ	0.21 UJ	0.24	0.19 U	0.19 U
MCPA	ug/kg		880	880	350 U	310 U	550	1200	1100 U	310 U	590	340 U	280 U	380
2,4-D	ug/kg		4 U	4.7 U	5 U	4.5 U	5 U	4.6 U	4.8 U	4.4 U	4.4 U	5 U	4.1 U	4 U
2,4 DB	ug/kg		11	18	2.8 U	2.1 U	17	24 J	17 J	2.1 U	5.1 U	1 J	1.9	2.6
Toxaphene	ug/kg		37 U	43 U	9.2 UJ	8.2 UJ	46 U	85 U	88 U	8.1 U	8 U	9.1 U	7.5 U	7.3 U
Heptachlor Epoxide	ug/kg		0.93 U	2.8 U	0.23 UJ	0.21 UJ	1.4 U	2.4 U	2.2 U	0.2 U	0.2 U	0.3 U	0.19 U	0.18 U
Endosulfan Sulfate	ug/kg		2.1 U	5.4 U	0.47 UJ	0.42 UJ	2.4 U	13 U	4.5 U	0.42 U	0.41 U	0.47 U	0.59	0.38 U
Mirex	ug/kg		1.9 U	2.2 U	0.47 UJ	0.42 UJ	4.1 U	4.4 U	4.5 U	0.42 U	0.41 U	0.47 U	0.39 U	0.38 U
Aldrin	ug/kg		0.93 U	1.1 U	0.23 UJ	0.21 UJ	1.2 U	2.1 U	2.2 U	0.2 U	0.2 U	0.23 U	0.19 U	0.18 U
Alpha-BHC	ug/kg		0.93 U	1.1 U	0.23 UJ	0.21 UJ	1.2 U	2.1 UJ	2.2 UJ	0.2 UJ	0.2 UJ	0.23 U	0.19 U	0.18 U
Beta-BHC	ug/kg		0.57 J	1.1 U	0.29 J	0.12 J	1.2 U	2.1 U	2.2 U	0.2 U	0.92 J	0.23 U	0.12 J	0.18 U
Delta-BHC	ug/kg		0.93 U	1.1 U	0.23 UJ	0.21 UJ	1.2 U	2.1 U	2.2 U	0.069 J	0.2 U	0.23 U	0.19 U	0.18 U
Endosulfan II	ug/kg		1.9 U	2.2 U	0.47 UJ	0.42 UJ	2.4 U	6.6 U	4.5 U	0.42 U	0.41 U	1.5 U	0.39 U	0.38 U
4,4'-DDT	ug/kg		4.7 U	12 U	1.2 UJ	0.34 J	2.4 U	4.5 U	4.5 U	0.42 U	2.5 U	3.9 U	0.39 U	0.38 U
Endrin Ketone	ug/kg		1.9 U	2.2 U	0.47 UJ	0.42 UJ	2.4 U	4.4 U	4.5 U	0.42 U	0.41 U	0.47 U	0.39 U	0.38 U
Chlordane	ug/kg		19 U	22 U	4.7 UJ	4.2 UJ	24 U	44 U	45 U	4.9 U	4.6 U	5.7 U	3.9 U	3.8 U
Gamma-BHC (Lindane)	ug/kg		0.93 U	1.1 U	0.23 UJ	0.21 UJ	1.2 U	2.1 UJ	2.2 UJ	0.2 UJ	0.2 UJ	0.23 U	0.19 U	0.18 U
Dieldrin	ug/kg		2 U	2.6 U	0.47 UJ	0.42 UJ	2.4 U	4.4 U	4.5 U	0.42 U	0.41 U	0.86 U	0.39 U	0.38 U
Endrin	ug/kg		1.9 U	2.2 U	0.47 UJ	0.42 UJ	2.4 U	4.4 U	4.5 U	0.42 U	0.41 U	0.47 U	0.39 U	0.38 U
Methoxychlor	ug/kg		9.3 U	11 U	2.3 R	2.1 UJ	12 U	21 U	22 U	2 U	2 U	2.3 U	0.96 J	1.8 U
4,4'-DDD	ug/kg		7.5 U	22 U	1.5 UJ	0.42 UJ	2.4 U	4.4 U	4.5 U	0.42 U	0.41 U	0.47 U	0.39 U	0.38 U
4,4'-DDE	ug/kg		1.9 U	2.2 U	0.47 UJ	0.82 J	2.4 U	4.4 U	4.5 U	0.42 U	1.5 U	0.47 U	0.39 U	0.38 U
Endrin Aldehyde	ug/kg		2.7 U	2.2 U	0.47 R	0.42 UJ	2.4 U	4.4 U	4.5 U	0.42 U	0.41 U	0.54 U	0.39 U	0.38 U
Heptachlor	ug/kg		0.93 U	1.1 U	0.23 UJ	0.21 UJ	1.2 U	2.1 U	2.2 U	0.2 U	0.2 U	0.23 U	0.19 U	0.18 U
Endosulfan I	ug/kg		0.93 U	1.1 U	0.23 R	0.21 UJ	1.2 U	2.1 U	2.2 U	0.2 U	0.2 U	0.23 U	0.19 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-5B

		Sample Name	SL-231-SA5B-SS-0.0-0.5	SL-232-SA5B-SS-0.0-0.5	SL-233-SA5B-SS-0.0-0.5	SL-234-SA5B-SS-0.0-0.5	SL-235-SA5B-SS-0.0-0.5	SL-236-SA5B-SS-0.0-0.5	SL-240-SA5B-SS-0.0-0.5	SL-253-SA5B-SS-0.0-0.5	SL-254-SA5B-SS-0.0-0.5	SL-255-SA5B-SS-0.0-0.5	SL-257-SA5B-SS-0.0-0.5	SL-262-SA5B-SS-0.0-0.5
		Sample Date	12/09/2010	12/10/2010	12/10/2010	12/10/2010	12/10/2010	12/13/2010	12/14/2010	02/11/2011	02/11/2011	12/20/2010	12/15/2010	12/15/2010
		Lab SDG	DE031	DE034	DE034	DE035	DE035	DE036	DE038	DE081	DE081	DE047	DE040	DE041
		Start Depth	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
Chemical Name	Unit		Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Dichlorprop	ug/kg		1.8 U	2 U	1.9 U	1.9 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	2.1 U	1.9 U	1.8 U
Dicamba	ug/kg		1.3 U	1.4 U	1.4 U	1.3 U	1.3 U	0.45 J	1.3 U	1.3 U	1.2 U	1.5 U	1.3 U	1.3 U
2,2-Dichlor-Propionic Acid	ug/kg		9.4 U	10 U	10 U	9.8 U	9.7 U	9.6 U	9.4 U	9.5 U	9.3 U	11 U	10 U	9.5 U
Dinitrobutyl Phenol	ug/kg		2.5 R	2.8 R	2.7 R	2.6 R	2.6 R	2.6 R	2.5 R	2.5 U	2.5 U	3 R	2.7 R	2.5 R
MCPP	ug/kg		260 U	290 U	280 U	270 U	270 U	480 U	150 J	140 J	260 U	310 U	280 U	260 U
2,4,5-TP	ug/kg		0.18 U	0.2 U	0.19 U	0.19 U	0.18 U	0.18 U	0.18 U	0.26	0.19 U	0.2 J	0.19 U	0.18 U
2,4,5-T	ug/kg		0.18 U	0.2 U	0.19 U	0.19 U	0.18 U	0.33	0.18 U	0.18 U	0.18 U	0.21 U	0.19 U	0.18 U
MCPA	ug/kg		260 U	200 J	190 J	300 U	270 U	610	260 U	260 U	480	310 U	280 U	260 UJ
2,4-D	ug/kg		3.8 U	4.1 U	4.1 U	3.9 U	3.9 U	3.8 U	3.8 U	3.8 U	3.7 U	4.4 U	4 U	3.8 U
2,4 DB	ug/kg		1.8 U	1 J	1.9 U	2.8	2.1	8.2	2.7	2.9 U	3.9 U	2.1 U	1.9 U	2.8 U
Toxaphene	ug/kg		6.9 U	7.6 U	7.5 U	7.2 U	7.1 U	7 U	6.9 U	7 U	6.9 U	8.1 UJ	7.3 U	7 U
Heptachlor Epoxide	ug/kg		0.055 J	0.19 U	0.19 U	0.18 U	0.18 U	0.18 U	0.17 U	0.18 U	0.17 U	0.2 UJ	0.18 U	0.18 U
Endosulfan Sulfate	ug/kg		0.35 U	0.39 U	0.39 U	0.37 U	0.37 U	0.36 U	0.35 U	0.36 U	0.35 U	0.42 UJ	0.38 U	0.36 U
Mirex	ug/kg		0.35 U	0.39 U	0.39 U	0.37 U	0.37 U	0.36 U	0.35 U	0.36 U	0.19 J	0.42 UJ	0.38 U	0.52 U
Aldrin	ug/kg		0.17 U	0.19 U	0.19 U	0.18 U	0.18 U	0.18 U	0.17 U	0.18 U	0.17 U	0.2 UJ	0.18 U	0.18 U
Alpha-BHC	ug/kg		0.17 U	0.19 U	0.19 U	0.18 U	0.18 U	0.18 U	0.17 U	0.18 U	0.17 U	0.058 J	0.056 J	0.18 U
Beta-BHC	ug/kg		0.17 U	0.19 U	0.19 U	0.18 U	0.18 U	0.18 U	0.17 U	0.18 U	0.17 U	0.2 UJ	0.25	0.18 U
Delta-BHC	ug/kg		0.17 U	0.19 U	0.19 U	0.18 U	0.18 U	0.18 U	0.17 U	0.18 U	0.17 U	0.2 UJ	0.18 U	0.18 U
Endosulfan II	ug/kg		0.35 U	0.39 U	0.39 U	0.37 U	0.37 U	0.36 U	0.35 U	0.36 U	0.35 U	0.42 UJ	0.38 UJ	0.36 U
4,4'-DDT	ug/kg		0.35 U	0.39 U	0.39 U	0.37 U	0.38 U	0.47 U	0.35 U	0.36 U	0.38	0.42 UJ	1.4 U	0.38 U
Endrin Ketone	ug/kg		0.35 U	0.39 U	0.39 U	0.37 U	0.37 U	0.36 U	0.35 U	0.36 U	0.35 U	0.42 UJ	0.38 U	0.36 U
Chlordane	ug/kg		3.5 U	3.9 U	3.9 U	3.7 U	3.7 U	3.6 U	3.5 U	3.6 U	3.5 U	4.2 UJ	3.8 U	3.6 U
Gamma-BHC (Lindane)	ug/kg		0.17 U	0.19 U	0.19 U	0.18 U	0.18 U	0.18 U	0.17 U	0.18 U	0.17 U	0.2 UJ	0.18 U	0.18 U
Dieldrin	ug/kg		0.35 U	0.39 U	0.39 U	0.37 U	0.37 U	0.36 U	0.35 U	0.25 J	4.3	0.42 UJ	0.38 U	0.36 U
Endrin	ug/kg		0.35 U	0.39 U	0.39 U	0.37 U	0.37 U	0.36 U	0.35 U	0.36 U	0.35 U	0.42 UJ	0.38 U	0.36 U
Methoxychlor	ug/kg		1.7 U	1.9 U	1.9 U	1.8 U	1.8 U	1.8 U	1.7 U	1.8 U	1.7 U	2 UJ	1.8 U	1.8 U
4,4'-DDD	ug/kg		0.35 U	0.39 U	0.39 U	0.37 U	0.37 U	0.36 U	0.35 U	0.36 U	0.35 U	1.1 UJ	2.3	0.36 U
4,4'-DDE	ug/kg		0.35 U	0.39 U	0.39 U	0.37 U	0.37 U	0.36 U	0.35 U	0.11 J	0.2 J	0.42 UJ	1.8 U	0.36 U
Endrin Aldehyde	ug/kg		0.35 U	0.39 U	0.39 U	0.37 U	0.37 U	0.36 U	0.35 U	0.36 U	0.35 U	0.42 UJ	0.64 U	0.36 U
Heptachlor	ug/kg		0.17 U	0.19 U	0.19 U	0.18 U	0.18 U	0.18 U	0.17 U	0.18 U	0.17 U	0.2 UJ	0.17 J	0.18 U
Endosulfan I	ug/kg		0.17 U	0.19 U	0.19 U	0.18 U	0.18 U	0.18 U	0.17 U	0.18 U	0.17 U	0.2 UJ	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-5B

		Sample Name	SL-263-SA5B-SS-0.0-0.5	SL-264-SA5B-SS-0.0-0.5	SL-272-SA5B-SS-0.0-0.5	SL-273-SA5B-SS-0.0-0.5	SL-274-SA5B-SS-0.0-0.5	SL-275-SA5B-SS-0.0-0.5	SL-276-SA5B-SS-0.0-0.5	SL-277-SA5B-SS-0.0-0.5	SL-278-SA5B-SS-0.0-0.5	SL-279-SA5B-SS-0.0-0.5	SL-280-SA5B-SS-0.0-0.5	SL-281-SA5B-SS-0.0-0.5
		Sample Date	12/15/2010	12/15/2010	12/17/2010	12/17/2010	12/17/2010	12/17/2010	12/17/2010	12/17/2010	12/17/2010	12/17/2010	12/08/2010	12/08/2010
		Lab SDG	DE041	DE041	DE044	DE044	DE044	DE044	DE044	DE044	DE044	DE044	DE031	DE031
		Start Depth	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
Chemical Name	Unit		Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Dichlorprop	ug/kg		1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	1.8 U	5.6 J	1.9 U	1.9 U
Dicamba	ug/kg		0.58 J	0.54 J	1.3 U	1.3 U	0.47 J	1.3 U	1.3 U	1.3 U	0.76 J	0.6 J	1.3 U	1.3 U
2,2-Dichlor-Propionic Acid	ug/kg		9.6 U	9.6 U	9.5 U	9.6 U	9.8 U	9.6 U	9.4 U	9.5 U	9.4 U	9.6 U	9.8 U	10 U
Dinitrobutyl Phenol	ug/kg		2.6 R	2.6 R	2.5 R	2.6 R	2.6 R	2.6 R	2.5 R	2.5 R	2.5 R	2.6 R	2.6 R	2.7 R
MCPP	ug/kg		270 U	270 U	610	270 U	270 U	270 U	280	260 U	260 U	170 J	270 U	280 U
2,4,5-TP	ug/kg		0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.19 U	0.19 U
2,4,5-T	ug/kg		0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.19 U	0.19 U
MCPA	ug/kg		540	270 U	500	660	720	540	920	260 U	260 U	450	330 U	280 U
2,4-D	ug/kg		3.8 U	3.9 U	3.8 U	3.8 U	3.9 U	3.8 U	3.8 U	3.8 U	3.8 U	3.9 U	3.9 U	4 U
2,4 DB	ug/kg		14 U	4.8 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	1.9 U
Toxaphene	ug/kg		7 U	7.1 U	6.9 U	7.1 U	7.2 U	7 U	6.9 U	7 U	6.9 U	7.1 U	9.2 U	7.3 U
Heptachlor Epoxide	ug/kg		0.32 U	0.2 U	0.17 U	0.19 U	0.18 U	0.066 J	0.17 U	0.18 U	0.17 U	0.18 U	0.23 U	0.54 U
Endosulfan Sulfate	ug/kg		0.36 U	0.36 U	0.36 U	0.36 U	0.37 U	0.36 U	0.35 U	0.36 U	0.36 U	0.36 U	0.47 U	0.38 U
Mirex	ug/kg		0.54 U	0.43 U	0.39 U	0.36 U	0.37 U	0.36 U	0.35 U	0.36 U	0.36 U	0.36 U	0.47 U	0.38 U
Aldrin	ug/kg		0.18 U	0.18 U	0.17 U	0.18 U	0.18 U	0.18 U	0.17 U	0.18 U	0.17 U	0.18 U	0.23 U	0.18 U
Alpha-BHC	ug/kg		0.18 U	0.18 U	0.051 J	0.18 U	0.18 U	0.18 U	0.17 U	0.18 U	0.17 U	0.18 U	0.23 U	0.18 U
Beta-BHC	ug/kg		0.18 U	0.18 U	0.17 U	0.18 U	0.18 U	0.18 U	0.17 U	0.18 U	0.096 J	0.18 U	0.23 U	0.18 U
Delta-BHC	ug/kg		0.18 U	0.18 U	0.058 J	0.18 U	0.18 U	0.18 U	0.17 U	0.18 U	0.17 U	0.18 U	0.23 U	0.18 U
Endosulfan II	ug/kg		0.36 U	0.36 U	0.36 U	0.51 U	0.65 U	0.36 U	0.35 U	0.36 U	0.36 U	0.36 U	0.47 U	0.38 U
4,4'-DDT	ug/kg		0.86 U	0.74 U	0.4 U	6.3 U	6.3 U	0.45	0.6 U	0.36 U	1 U	0.36 U	0.47 U	0.8 U
Endrin Ketone	ug/kg		0.36 U	0.36 U	0.36 U	0.36 U	0.37 U	0.36 U	0.35 U	0.36 U	0.36 U	0.36 U	0.47 U	0.38 U
Chlordane	ug/kg		3.6 U	3.6 U	3.6 U	3.6 U	3.7 U	3.6 U	3.5 U	3.6 U	3.6 U	3.6 U	4.7 U	3.8 U
Gamma-BHC (Lindane)	ug/kg		0.18 U	0.18 U	0.053 J	0.18 U	0.18 U	0.18 U	0.17 U	0.18 U	0.045 J	0.18 U	0.23 U	0.18 U
Dieldrin	ug/kg		0.36 U	0.36 U	0.36 UJ	0.63 UJ	0.84 UJ	0.36 UJ	0.35 UJ	0.36 UJ	0.36 UJ	0.36 UJ	0.47 U	0.38 U
Endrin	ug/kg		0.36 U	0.36 U	0.36 U	0.75 U	0.37 U	0.36 U	0.35 U	0.36 U	0.36 U	0.36 U	0.47 U	0.38 U
Methoxychlor	ug/kg		1.8 U	1.8 U	1.7 U	1.8 U	1.8 U	1.8 U	1.7 U	1.8 U	1.7 U	1.8 U	2.3 U	1.8 U
4,4'-DDD	ug/kg		0.7 U	3.3 U	0.36 U	0.36 U	0.37 U	0.36 U	0.35 U	0.36 U	0.36 U	0.36 U	0.47 U	0.38 U
4,4'-DDE	ug/kg		0.42 U	0.49 U	0.36 U	0.79 U	0.37 U	0.74	0.35 U	0.36 U	1.6 U	0.36 U	0.47 U	0.38 U
Endrin Aldehyde	ug/kg		0.36 U	0.68 U	0.36 U	0.49 U	0.59 U	0.36 U	0.35 U	0.36 U	0.36 U	0.36 U	0.47 U	0.38 U
Heptachlor	ug/kg		0.18 U	0.18 U	0.17 U	0.18 U	0.18 U	0.18 U	0.17 U	0.18 U	0.17 U	0.18 U	0.23 U	0.18 U
Endosulfan I	ug/kg		0.18 U	0.18 U	0.17 U	0.18 U	0.18 U	0.18 U	0.17 U	0.18 U	0.17 U	0.18 U	0.23 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-5B

		Sample Name	SL-282-SA5B-SS-0.0-0.5	SL-283-SA5B-SS-0.0-0.5	SL-284-SA5B-SS-0.0-0.5	SL-285-SA5B-SS-0.0-0.5	SL-286-SA5B-SS-0.0-0.5	SL-287-SA5B-SS-0.0-0.5	SL-288-SA5B-SS-0.0-0.5	SL-289-SA5B-SS-0.0-0.5	SL-290-SA5B-SS-0.0-0.5	SL-291-SA5B-SS-0.0-0.5	SL-292-SA5B-SS-0.0-0.5	SL-293-SA5B-SS-0.0-0.5
		Sample Date	12/08/2010	12/08/2010	12/16/2010	12/16/2010	12/16/2010	12/10/2010	12/10/2010	02/11/2011	12/10/2010	12/09/2010	12/09/2010	12/09/2010
		Lab SDG	DE031	DE031	DE043	DE043	DE043	DE035	DE035	DE081	DE035	DE032	DE031	DE031
		Start Depth	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
Chemical Name	Unit		Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Dichlorprop	ug/kg		1.8 U	1.9 U	1.9 U	1.9 U	2 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.4 J
Dicamba	ug/kg		1.3 U	1.3 U	1.4 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
2,2-Dichlor-Propionic Acid	ug/kg		9.7 U	9.8 U	10 U	9.8 U	11 U	9.7 U	9.4 U	9.5 U	9.7 U	9.6 U	9.6 U	10 U
Dinitrobutyl Phenol	ug/kg		2.6 R	2.6 R	2.7 R	2.6 R	2.8 R	2.6 R	2.5 R	2.5 U	2.6 R	2.6 U	2.6 R	2.7 R
MCPP	ug/kg		300	270 U	280 U	270 U	290 U	300	260 U	130 J	600	270 U	270 U	280 U
2,4,5-TP	ug/kg		0.18 U	0.19 U	0.19 U	0.19 U	0.2 U	0.18 U	0.18 U	0.17 J	0.18 U	0.18 U	0.18 U	0.19 U
2,4,5-T	ug/kg		0.18 U	0.19 U	0.19 U	0.28	0.23	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.19 U
MCPA	ug/kg		270 U	120 J	1100	220 J	480	270 U	290 U	260 U	270 U	270 U	270 U	880 U
2,4-D	ug/kg		3.9 U	3.9 U	4.1 U	3.9 U	4.2 U	1.6 J	3.8 U	3.8 U	3.9 U	3.8 U	3.8 U	4 U
2,4 DB	ug/kg		1.8 U	3.2 U	2.6 U	13	19	1.8 U	1.8 U	3.3 U	2.8	1.8 U	4.4 U	1.6 J
Toxaphene	ug/kg		7.1 U	7.2 U	7.5 U	7.2 U	7.7 U	7.1 U	6.9 U	7 UJ	7.1 U	35 U	7 U	7.4 U
Heptachlor Epoxide	ug/kg		0.18 U	0.18 U	0.27 U	0.18 U	0.19 U	0.18 U	0.17 U	0.18 UJ	0.18 U	0.88 U	0.18 U	0.19 U
Endosulfan Sulfate	ug/kg		0.37 U	0.37 U	0.39 U	0.37 U	0.52 U	0.37 U	0.36 U	0.36 UJ	0.36 U	1.8 U	0.36 U	0.38 U
Mirex	ug/kg		0.37 U	0.37 U	0.39 U	0.37 U	0.4 U	0.37 U	0.36 UJ	0.36 UJ	0.36 U	1.8 U	0.092 J	0.38 U
Aldrin	ug/kg		0.18 U	0.18 U	0.19 U	0.18 U	0.19 U	0.18 U	0.17 U	0.18 UJ	0.18 U	0.88 U	0.18 U	0.19 U
Alpha-BHC	ug/kg		0.18 U	0.18 U	0.19 U	0.18 U	0.19 U	0.18 U	0.17 U	0.18 UJ	0.18 U	0.88 U	0.18 U	0.19 U
Beta-BHC	ug/kg		0.18 U	0.18	0.19 U	0.27	0.19 U	0.18 U	0.17 U	0.18 UJ	0.18 U	0.88 U	0.18 U	0.19 U
Delta-BHC	ug/kg		0.18 U	0.18 U	0.056 J	0.18 U	0.19 U	0.18 U	0.17 U	0.18 UJ	0.18 U	0.88 U	0.18 U	0.19 U
Endosulfan II	ug/kg		0.37 U	0.37 U	0.5 U	0.86 U	2.1 U	0.37 U	0.36 U	0.36 UJ	0.36 U	1.8 U	0.36 U	0.38 U
4,4'-DDT	ug/kg		11	0.37 U	1.5 U	4.3	11	0.37 U	0.36 U	0.36 UJ	0.21 J	2.6 U	0.097 J	0.38 U
Endrin Ketone	ug/kg		0.37 U	0.37 U	0.39 U	0.37 U	0.4 U	0.37 U	0.36 U	0.36 UJ	0.36 U	1.8 U	0.36 U	0.38 U
Chlordane	ug/kg		3.7 U	3.7 U	5.1 U	4.4 U	4.3 U	3.7 U	3.6 U	3.6 UJ	3.6 U	18 U	3.6 U	3.8 U
Gamma-BHC (Lindane)	ug/kg		0.18 U	0.18 U	0.19 U	0.18 U	0.19 U	0.18 U	0.17 U	0.18 UJ	0.18 U	0.88 U	0.18 U	0.19 U
Dieldrin	ug/kg		0.71 U	0.37 U	0.5 U	1.2 U	2 U	0.37 U	0.36 U	0.36 UJ	0.36 U	1.8 U	0.086 J	0.38 U
Endrin	ug/kg		0.37 U	0.37 U	0.39 U	0.37 U	0.59 U	0.37 U	0.36 U	0.36 UJ	0.36 U	1.8 U	0.36 U	0.38 U
Methoxychlor	ug/kg		1.8 U	1.8 U	1.9 U	1.8 U	1.9 U	1.8 U	1.7 U	1.8 UJ	1.8 U	8.8 U	1.8 U	1.9 U
4,4'-DDD	ug/kg		1.4 U	0.37 U	2.2 U	1.8 U	4.5 U	0.37 U	0.36 U	0.36 UJ	0.36 U	1.8 U	0.36 U	0.38 U
4,4'-DDE	ug/kg		1.4 U	0.37 U	0.54 U	0.67 U	5 U	0.37 U	0.36 U	0.36 UJ	0.36 U	1.8 U	0.36 U	0.38 U
Endrin Aldehyde	ug/kg		0.37 U	0.37 U	0.65 U	0.57 U	2.1 U	0.37 U	0.36 U	0.36 UJ	0.36 U	1.8 U	0.36 U	0.46 U
Heptachlor	ug/kg		0.18 U	0.18 U	0.19 U	0.18 U	0.19 U	0.18 U	0.17 U	0.18 UJ	0.18 U	0.88 U	0.18 U	0.19 U
Endosulfan I	ug/kg		0.18 U	0.18 U	0.19 U	0.18 U	0.19 U	0.18 U	0.17 U	0.18 UJ	0.18 U	0.88 U	0.18 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-5B

	Sample Name	SL-294-SA5B-SS-0.0-0.5	SL-295-SA5B-SS-0.0-0.5	SL-296-SA5B-SS-0.0-0.5	SL-297-SA5B-SS-0.0-0.5	SL-297-SA5B-SB-4.0-5.0	SL-297-SA5B-SB-7.0-8.0	SL-298-SA5B-SS-0.0-0.5	SL-298-SA5B-SB-4.0-5.0	SL-298-SA5B-SB-9.0-10.0	SL-299-SA5B-SS-0.0-0.5	SL-300-SA5B-SS-0.0-0.5	SL-301-SA5B-SS-0.0-0.5
	Sample Date	12/08/2010	12/08/2010	12/08/2010	12/08/2010	12/15/2010	12/15/2010	01/05/2011	12/15/2010	12/15/2010	12/10/2010	12/10/2010	12/13/2010
	Lab SDG	DE032	DE031	DE031	DE031	DE041	DE041	DE053	DE041	DE041	DE034	DE034	DE036
	Start Depth	0	0	0	0	4	7	0	4	9	0	0	0
	End Depth	0.5	0.5	0.5	0.5	5	8	0.5	5	10	0.5	0.5	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Dichlorprop	ug/kg	1.8 U	1.9 U	1.9 U	1.9 U	2 U	2 U	1.9 U	1.9 U	1.8 U	2 U	2.1 U	1.9 U
Dicamba	ug/kg	1.3 U	1.3 U	1.3 U	1.3 U	1.4 U	1.4 U	1.3 U	1.4 U	1.3 U	1.4 U	1.4 U	1.3 U
2,2-Dichlor-Propionic Acid	ug/kg	9.8 U	9.9 U	9.8 U	10 U	10 U	11 U	9.8 U	10 U	9.6 U	10 U	11 U	9.9 U
Dinitrobutyl Phenol	ug/kg	2.6 U	2.6 R	2.6 R	2.7 R	2.8 R	2.9 R	2.6 R	2.7 R	2.6 R	2.8 R	2.9 R	2.6 R
MCPP	ug/kg	370	270 U	330	270 J	180 J	300 U	270 U	390	650	290 U	300 U	500 U
2,4,5-TP	ug/kg	0.18 U	0.19 U	0.19 U	0.19 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.2 U	0.21 U	0.19 U
2,4,5-T	ug/kg	0.18 U	0.19 U	0.19 U	0.19 U	0.2 U	0.2 U	0.19 U	0.55	0.2	0.2 U	0.21 U	0.28
MCPA	ug/kg	270 U	270 U	330 U	280 U	220 J	300 U	270 U	280 U	1400	150 J	300 U	2700 U
2,4-D	ug/kg	3.9 U	4 U	3.9 U	4 U	4.1 U	4.3 U	3.9 U	2.6 J	2.6 J	4.2 U	4.3 U	3.9 U
2,4 DB	ug/kg	3.8	3.4	1.9	2.2	2.5 U	2.2	2.5 U	2.3 U	3.8	2 U	2.1 U	13 U
Toxaphene	ug/kg	7.2 U	7.3 U	7.2 U	7.3 U	7.6 U	7.9 U	7.2 U	7.5 R	7 U	7.6 U	8 U	36 U
Heptachlor Epoxide	ug/kg	0.04 J	0.18 U	0.18 U	0.18 U	0.19 U	0.2 U	0.18 U	0.19 R	0.18 U	0.074 J	0.2 U	6.5 U
Endosulfan Sulfate	ug/kg	0.37 U	0.37 U	0.37 U	0.38 U	0.39 U	0.41 U	0.37 U	0.39 R	0.36 U	0.39 U	0.41 U	1.9 U
Mirex	ug/kg	0.37 U	0.37 U	0.37 U	0.38 U	0.39 U	0.41 U	1 U	0.39 R	0.097 J	0.44	0.41 U	1.9 U
Aldrin	ug/kg	0.18 U	0.18 U	0.18 U	0.18 U	0.19 U	0.2 U	0.18 U	0.19 R	0.18 U	0.19 U	0.2 U	0.91 U
Alpha-BHC	ug/kg	0.18 U	0.18 U	0.18 U	0.18 U	0.19 U	0.2 U	0.18 U	0.19 R	0.18 U	0.19 U	0.2 U	0.91 U
Beta-BHC	ug/kg	0.18 U	0.18 U	0.18 U	0.087 J	0.19 U	0.2 U	0.18 U	0.19 R	0.18 U	0.19 U	0.2 U	0.91 U
Delta-BHC	ug/kg	0.18 U	0.18 U	0.18 U	0.18 U	0.19 U	0.2 U	0.18 U	0.19 R	0.18 U	0.19 U	0.2 U	0.91 U
Endosulfan II	ug/kg	0.37 U	0.37 U	0.37 U	0.38 U	0.39 U	0.41 U	0.37 U	0.39 R	0.36 U	0.39 U	0.41 U	1.9 U
4,4'-DDT	ug/kg	0.37 U	8.8	2	1.5 U	0.39 U	0.41 U	0.37 U	0.39 R	0.36 U	0.14 J	0.41 U	4.5 U
Endrin Ketone	ug/kg	0.37 U	0.37 U	0.37 U	0.38 U	0.39 U	0.41 U	0.37 U	0.39 R	0.36 U	0.39 U	0.41 U	1.9 U
Chlordane	ug/kg	3.7 U	3.7 U	3.7 U	3.8 U	3.9 U	4.1 U	3.7 U	3.9 R	3.6 U	3.9 U	4.1 U	19 U
Gamma-BHC (Lindane)	ug/kg	0.18 U	0.18 U	0.18 U	0.18 U	0.19 U	0.2 U	0.18 U	0.19 R	0.18 U	0.19 U	0.2 U	0.91 U
Dieldrin	ug/kg	0.37 U	0.4 U	0.37 U	0.38 U	0.39 U	0.41 U	0.37 U	0.39 R	0.36 U	0.39 U	0.41 U	1.9 U
Endrin	ug/kg	0.37 U	0.37 U	0.37 U	0.38 U	0.39 U	0.41 U	0.37 U	0.39 R	0.36 U	0.39 U	0.41 U	1.9 U
Methoxychlor	ug/kg	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U	2 U	1.8 U	1.9 R	1.8 U	1.9 U	2 U	9.1 U
4,4'-DDD	ug/kg	0.37 U	0.4 U	0.37 U	0.38 U	0.19 J	0.41 U	0.45 U	0.39 R	0.36 U	0.39 U	0.41 U	1.9 U
4,4'-DDE	ug/kg	0.37 U	0.98 U	0.27 J	0.38 U	0.23 J	0.16 J	0.37 U	0.19 J	0.36 U	0.39 U	0.41 U	3.9 U
Endrin Aldehyde	ug/kg	0.37 U	0.37 U	0.37 U	0.38 U	0.39 U	0.41 U	0.37 U	0.39 R	0.36 U	0.1 J	0.41 U	1.9 U
Heptachlor	ug/kg	0.18 U	0.18 U	0.18 U	0.18 U	0.19 U	0.2 U	0.18 U	0.19 R	0.18 U	0.19 U	0.2 U	0.91 U
Endosulfan I	ug/kg	0.18 U	0.18 U	0.18 U	0.18 U	0.19 U	0.2 U	0.18 U	0.19 R	0.18 U	0.19 U	0.2 U	0.91 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-5B

		Sample Name	SL-302-SA5B-SS-0.0-0.5	SL-303-SA5B-SS-0.0-0.5	SL-304-SA5B-SS-0.0-0.5	SL-306-SA5B-SS-0.0-0.5	SL-307-SA5B-SS-0.0-0.5	SL-308-SA5B-SS-0.0-0.5	SL-309-SA5B-SS-0.0-0.5	SL-310-SA5B-SS-0.0-0.5	SL-311-SA5B-SS-0.0-0.5	SL-312-SA5B-SS-0.0-0.5	SL-314-SA5B-SS-0.0-0.5	SL-315-SA5B-SS-0.0-0.5
		Sample Date	12/15/2010	12/15/2010	12/16/2010	12/09/2010	12/08/2010	12/08/2010	12/14/2010	12/14/2010	12/14/2010	12/14/2010	02/09/2011	02/08/2011
		Lab SDG	DE041	DE041	DE043	DE032	DE032	DE031	DE038	DE038	DE038	DE038	DE079	DE078
		Start Depth	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
Chemical Name	Unit		Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Dichlorprop	ug/kg		1.9 U	2 U	1.8 U	1.9 U	1.9 U	1.9 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
Dicamba	ug/kg		1.4 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
2,2-Dichlor-Propionic Acid	ug/kg		10 U	11 U	9.6 U	9.9 U	9.8 U	9.8 U	9.4 U	9.5 U	9.8 U	9.5 U	9.7 U	9.5 U
Dinitrobutyl Phenol	ug/kg		2.7 R	2.8 R	2.5 R	2.6 U	2.6 U	2.6 R	2.5 R	2.5 R	2.6 R	2.5 R	2.6 U	2.5 U
MCPP	ug/kg		280 U	290 U	270 U	450	270 U	200 J	260 U	260 U	270 U	81 J	270 U	260 U
2,4,5-TP	ug/kg		0.19 U	0.2 U	0.18 U	0.19 U	0.19 U	0.19 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
2,4,5-T	ug/kg		0.3	0.2 U	0.18 U	0.77	0.19 U	0.19 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
MCPA	ug/kg		280 U	290 U	270 U	1700	300	270 U	260 U	98 J	270 U	260 U	340 U	260 U
2,4-D	ug/kg		4.1 U	4.2 U	3.8 U	4 U	3.9 U	3.9 U	3.8 U	3.8 U	3.9 U	3.8 U	3.9 U	3.8 U
2,4 DB	ug/kg		5.8	4.7	8.5 U	3.4	2	1.2 J	0.7 J	1.8 U	6.5 J	1.6 J	2.7	1.8 U
Toxaphene	ug/kg		7.4 U	7.7 U	7 U	7.3 U	7.2 U	7.2 U	6.9 U	140 U	7.2 U	6.9 U	7.1 U	7 U
Heptachlor Epoxide	ug/kg		0.19 U	0.19 U	0.18 U	0.18 U	0.18 U	0.18 U	0.17 U	14 U	0.18 U	0.17 U	0.18 U	0.18 U
Endosulfan Sulfate	ug/kg		0.38 U	0.4 U	0.36 U	0.37 U	0.37 U	0.37 U	0.35 U	7.2 U	0.37 U	0.36 U	0.37 U	0.36 U
Mirex	ug/kg		0.38 U	0.4 U	0.36 U	0.37 U	0.39 U	0.37 U	0.35 U	24 U	0.44 U	0.37 U	0.37 U	0.36 U
Aldrin	ug/kg		0.19 U	0.19 U	0.18 U	0.18 U	0.18 U	0.18 U	0.17 U	3.5 U	0.18 U	0.17 U	0.18 U	0.18 U
Alpha-BHC	ug/kg		0.19 U	0.19 U	0.18 U	0.18 U	0.18 U	0.18 U	0.17 U	3.5 U	0.18 U	0.17 U	0.18 U	0.18 U
Beta-BHC	ug/kg		0.19 U	0.19 U	0.18 U	0.18 U	0.18 U	0.18 U	0.17 U	3.5 U	0.18 U	0.17 U	0.092 J	0.18 U
Delta-BHC	ug/kg		0.19 U	0.19 U	0.18 U	0.18 U	0.18 U	0.18 U	0.17 U	3.5 U	0.18 U	0.17 U	0.18 U	0.18 U
Endosulfan II	ug/kg		0.38 U	0.4 U	0.36 U	0.37 U	0.37 U	0.37 U	0.35 U	7.2 U	0.37 U	0.36 U	0.37 U	0.36 U
4,4'-DDT	ug/kg		0.88 U	0.5 U	0.44 U	0.61 U	2.6	0.48	0.35 U	19 U	0.37 U	0.36 U	0.37 U	0.19 J
Endrin Ketone	ug/kg		0.38 U	0.4 U	0.36 U	0.37 U	0.37 U	0.37 U	0.35 U	7.2 U	0.37 U	0.36 U	0.37 U	0.36 U
Chlordane	ug/kg		3.9 U	4 U	3.6 U	3.7 U	3.7 U	3.7 U	3.5 U	72 U	3.7 U	3.6 U	3.7 U	1.2 J
Gamma-BHC (Lindane)	ug/kg		0.19 U	0.19 U	0.18 U	0.18 U	0.18 U	0.18 U	0.17 U	3.5 U	0.18 U	0.17 U	0.18 U	0.18 U
Dieldrin	ug/kg		0.38 U	0.4 U	0.36 U	0.37 U	0.37 U	0.37 U	0.35 U	7.2 U	0.37 U	0.36 U	0.37 U	0.36 U
Endrin	ug/kg		0.38 U	0.4 U	0.36 U	0.37 U	0.37 U	0.37 U	0.35 U	7.2 U	0.37 U	0.36 U	0.37 U	0.36 U
Methoxychlor	ug/kg		1.9 U	1.9 U	1.8 U	1.8 U	1.8 U	1.8 U	1.7 U	35 U	1.8 U	1.7 U	1.8 U	1.8 U
4,4'-DDD	ug/kg		1.7 U	0.4 U	0.4 U	0.37 U	0.37 U	0.086 J	0.35 U	34 U	0.37 U	0.36 U	0.37 U	0.36 U
4,4'-DDE	ug/kg		0.38 U	0.4 U	0.36 U	0.37 U	0.37 U	0.37 U	0.35 U	25 U	0.37 U	0.36 U	0.37 U	0.36 U
Endrin Aldehyde	ug/kg		0.82 U	0.4 U	0.36 U	0.37 U	0.37 U	0.37 U	0.35 U	7.2 U	0.37 U	0.36 U	0.37 U	0.36 U
Heptachlor	ug/kg		0.19 U	0.19 U	0.18 U	0.18 U	0.18 U	0.18 U	0.17 U	3.5 U	0.18 U	0.17 U	0.18 U	0.18 U
Endosulfan I	ug/kg		0.19 U	0.19 U	0.18 U	0.18 U	0.18 U	0.18 U	0.17 U	3.5 U	0.18 U	0.17 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-5B

		Sample Name	SL-316-SA5B-SS-0.0-0.5	SL-319-SA5B-SS-0.0-0.5	SL-321-SA5B-SS-0.0-0.5	SL-322-SA5B-SS-0.0-0.5	SL-323-SA5B-SS-0.0-0.5	SL-324-SA5B-SS-0.0-0.5	SL-326-SA5B-SS-0.0-0.5	SL-327-SA5B-SS-0.0-0.5	SL-328-SA5B-SS-0.0-0.5	SL-329-SA5B-SS-0.0-0.5	SL-330-SA5B-SS-0.0-0.5	SL-331-SA5B-SS-0.0-0.5
		Sample Date	02/08/2011	02/09/2011	02/10/2011	02/10/2011	02/09/2011	02/09/2011	02/09/2011	02/08/2011	02/08/2011	02/10/2011	02/10/2011	02/10/2011
		Lab SDG	DE078	DE079	DE080	DE080	DE079	DE079	DE079	DE078	DE078	DE080	DE080	DE080
		Start Depth	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
Chemical Name	Unit		Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Dichlorprop	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 UJ	1.8 U	1.8 U	1.8 U	1.8 U
Dicamba	ug/kg		1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.2 UJ	1.2 U	1.3 U	1.2 U	1.3 U
2,2-Dichlor-Propionic Acid	ug/kg		9.4 U	9.6 U	9.5 U	9.5 U	12 U	9.6 U	9.5 U	9.4 UJ	9.3 U	9.6 U	9.3 U	9.5 U
Dinitrobutyl Phenol	ug/kg		2.5 U	2.6 U	2.5 U	2.5 U	2.5 U	2.6 U	2.5 U	2.5 UJ	2.5 U	2.5 U	2.5 U	2.5 U
MCPP	ug/kg		260 U	340	260 U	260 U	260 U	270 U	280	260 UJ	380	270 U	260 U	260 U
2,4,5-TP	ug/kg		0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.11 J	0.18 U	0.18 UJ	0.18 U	0.18 U	0.28	0.18 U
2,4,5-T	ug/kg		0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 UJ	0.18 U	0.092 J	0.18 U	0.18 U
MCPA	ug/kg		260	270 U	260 U	260 U	260 U	340 U	390	260 UJ	260 U	270 U	500 U	260 U
2,4-D	ug/kg		3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.7 UJ	3.7 U	3.8 U	4.7 U	3.8 U
2,4 DB	ug/kg		1.8 U	2.2 U	3.2 U	1.8 U	3.3 J	1.4 J	2 U	1.8 UJ	1.8 U	1.8 U	3.9	1.8 U
Toxaphene	ug/kg		6.9 U	7.1 U	7 U	7 U	35 U	7 U	7 UJ	6.9 U	6.9 U	7 U	6.9 U	6.9 U
Heptachlor Epoxide	ug/kg		0.17 U	0.18 U	0.18 U	0.18 U	0.87 U	0.18 U	0.18 UJ	0.17 U	0.17 U	0.18 U	0.17 U	0.17 U
Endosulfan Sulfate	ug/kg		0.36 U	0.36 U	0.36 U	0.36 U	1.8 U	0.36 U	0.36 UJ	0.35 U	0.35 U	0.36 U	0.35 U	0.36 U
Mirex	ug/kg		0.36 U	0.36 U	0.45 U	0.61 U	1.8 U	0.36 U	1.7 UJ	0.35 U	0.35 U	0.36 U	1.1 U	0.36 U
Aldrin	ug/kg		0.17 U	0.18 U	0.18 U	0.18 U	0.87 U	0.18 U	0.18 UJ	0.17 U	0.17 U	0.18 U	0.17 U	0.17 U
Alpha-BHC	ug/kg		0.17 U	0.18 U	0.18 U	0.18 U	0.87 U	0.18 U	0.18 UJ	0.17 U	0.17 U	0.18 U	0.17 U	0.17 U
Beta-BHC	ug/kg		0.17 U	0.18 U	0.18 U	0.18 U	0.87 U	0.18 U	0.31 UJ	0.17 U	0.17 U	0.18 U	0.17 U	0.17 U
Delta-BHC	ug/kg		0.17 U	0.18 U	0.18 U	0.18 U	0.87 U	0.18 U	0.077 J	0.17 U	0.17 U	0.18 U	0.17 U	0.17 U
Endosulfan II	ug/kg		0.36 U	0.36 U	0.36 U	0.36 U	1.8 U	0.36 U	0.36 UJ	0.35 U	0.35 U	0.36 U	0.35 U	0.36 U
4,4'-DDT	ug/kg		0.12 J	0.42 U	0.89 U	0.86 U	3 U	0.48	1.2 UJ	0.35 U	0.35 U	0.36 U	0.35 U	0.36 U
Endrin Ketone	ug/kg		0.36 U	0.36 U	0.36 U	0.39 U	1.9 U	0.34 J	1.1 UJ	0.35 U	0.35 U	0.36 U	0.35 U	0.34 J
Chlordane	ug/kg		1.5 J	3.6 U	3.6 U	3.6 U	18 U	2.1 J	4.5 UJ	3.5 U	3.5 U	3.6 U	3.5 U	3.6 U
Gamma-BHC (Lindane)	ug/kg		0.17 U	0.18 U	0.18 U	0.18 U	0.87 U	0.18 U	0.18 UJ	0.17 U	0.17 U	0.18 U	0.17 U	0.17 U
Dieldrin	ug/kg		0.36 U	0.54 U	0.46 U	1.4 U	3.1 U	0.36 U	2.1 UJ	0.35 U	0.35 U	0.36 U	0.35 U	0.36 U
Endrin	ug/kg		0.36 U	0.36 U	0.36 U	0.36 U	1.8 U	0.36 U	0.36 UJ	0.35 U	0.35 U	0.36 U	0.35 U	0.36 U
Methoxychlor	ug/kg		1.7 U	1.8 U	1.8 U	1.8 U	8.7 U	1.8	1.8 UJ	1.7 U	1.7 U	1.8 U	1.7 U	1.7 U
4,4'-DDD	ug/kg		0.36 U	0.36 U	0.36 U	0.36 U	1.8 U	0.36 U	0.36 UJ	0.35 U	0.35 U	0.36 U	0.35 U	0.36 U
4,4'-DDE	ug/kg		0.36 U	0.36 U	0.36 U	0.36 U	1.8 U	0.36 U	0.36 UJ	0.35 U	0.35 U	0.36 U	0.35 U	0.36 U
Endrin Aldehyde	ug/kg		0.36 U	0.36 U	0.36 U	0.36 U	1.8 U	0.36 U	0.36 UJ	0.35 U	0.35 U	0.36 U	0.35 U	0.36 U
Heptachlor	ug/kg		0.17 U	0.18 U	0.18 U	0.18 U	0.87 U	0.18 U	0.13 J	0.17 U	0.17 U	0.18 U	0.61	0.17 U
Endosulfan I	ug/kg		0.17 U	0.18 U	0.18 U	0.18 U	0.87 U	0.18 U	0.18 UJ	0.17 U	0.17 U	0.18 U	0.17 U	0.17 U

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

Appendix A5
Pesticides - Validated Data
HSA-5B

		Sample Name	SL-332-SA5B-SS-0.0-0.5	SL-333-SA5B-SS-0.0-0.5	SL-334-SA5B-SS-0.0-0.5	SL-335-SA5B-SS-0.0-0.5
		Sample Date	02/10/2011	02/10/2011	02/10/2011	02/10/2011
		Lab SDG	DE080	DE080	DE080	DE080
		Start Depth	0	0	0	0
		End Depth	0.5	0.5	0.5	0.5
Chemical Name	Unit		Result	Result	Result	Result
Dichlorprop	ug/kg		1.8 U	1.8 U	1.9 U	1.9 U
Dicamba	ug/kg		1.3 U	1.3 U	1.3 U	1.3 U
2,2-Dichlor-Propionic Acid	ug/kg		9.7 U	9.6 U	10 U	9.9 U
Dinitrobutyl Phenol	ug/kg		2.6 U	2.5 U	2.7 U	2.6 U
MCPP	ug/kg		270 U	270 U	280 U	270 U
2,4,5-TP	ug/kg		0.18 U	0.18 U	0.19 U	0.19 U
2,4,5-T	ug/kg		0.18 U	0.18 U	0.19 U	0.19 U
MCPA	ug/kg		270 U	130 J	280 U	320 U
2,4-D	ug/kg		3.9 U	3.8 U	4 U	4 U
2,4 DB	ug/kg		0.72 J	2 J	0.78 J	1.9 U
Toxaphene	ug/kg		7.1 U	7 U	7.4 U	7.2 U
Heptachlor Epoxide	ug/kg		0.18 U	0.18 U	0.19 U	0.18 U
Endosulfan Sulfate	ug/kg		0.37 U	0.36 U	0.38 U	0.37 U
Mirex	ug/kg		0.37 U	0.39 U	0.38 U	0.37 U
Aldrin	ug/kg		0.18 U	0.18 U	0.19 U	0.18 U
Alpha-BHC	ug/kg		0.18 U	0.18 U	0.19 U	0.18 U
Beta-BHC	ug/kg		0.18 U	0.18 U	0.19 U	0.18 U
Delta-BHC	ug/kg		0.18 U	0.18 U	0.19 U	0.18 U
Endosulfan II	ug/kg		0.37 U	0.36 U	0.38 U	0.37 U
4,4'-DDT	ug/kg		0.37 U	0.36 U	0.52 U	0.37 U
Endrin Ketone	ug/kg		0.37 U	0.36 U	0.38 U	0.37 U
Chlordane	ug/kg		3.7 U	3.6 U	3.8 U	3.7 U
Gamma-BHC (Lindane)	ug/kg		0.18 U	0.18 U	0.19 U	0.18 U
Dieldrin	ug/kg		0.37 U	0.38 U	0.38 U	0.37 U
Endrin	ug/kg		0.37 U	0.36 U	0.38 U	0.37 U
Methoxychlor	ug/kg		1.8 U	1.8 U	1.9 U	1.8 U
4,4'-DDD	ug/kg		0.37 U	0.36 U	0.38 U	0.37 U
4,4'-DDE	ug/kg		0.37 U	0.36 U	0.38 U	0.37 U
Endrin Aldehyde	ug/kg		0.37 U	0.36 U	0.38 U	0.37 U
Heptachlor	ug/kg		0.18 U	0.18 U	0.19 U	0.18 U
Endosulfan I	ug/kg		0.18 U	0.18 U	0.19 U	0.18 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-5B

	Sample Name	SL-001-SA5B-SS-0.0-0.5	SL-002-SA5B-SS-0.0-0.5	SL-003-SA5B-SS-0.0-0.5	SL-004-SA5B-SS-0.0-0.5	SL-005-SA5B-SS-0.0-0.5	SL-006-SA5B-SS-0.0-0.5	SL-006-SA5B-SB-4.0-5.0	SL-006-SA5B-SB-5.0-6.0	SL-007-SA5B-SS-0.0-0.5	SL-008-SA5B-SS-0.0-0.5	SL-009-SA5B-SS-0.0-0.5	SL-010-SA5B-SS-0.0-0.5
	Sample Date	12/09/2010	12/09/2010	12/09/2010	12/09/2010	12/09/2010	12/09/2010	12/21/2010	12/21/2010	12/09/2010	12/10/2010	12/10/2010	12/09/2010
	Lab SDG	DE032	DE032	DE031	DE031	DE031	DE032	DE049	DE049	DE032	DE034	DE034	DE032
	Start Depth	0	0	0	0	0	0	4	5	0	0	0	0
	End Depth	0.5	0.5	0.5	0.5	0.5	0.5	5	6	0.5	0.5	0.5	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
N-Nitrosodimethylamine (1625C)	ng/kg	--	--	--	--	--	--	72.4 U	8850	--	--	--	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.8 U	1.8 U	1.8 U	90 U	44 U	1.8 U	1.8 U	2 U	1.8 U	1.7 U	1.8 U	1.8 U
2,4-Dinitrotoluene	ug/kg	180 U	180 R	180 U	9000 U	170 U	180 U	180 U	200 U	180 U	170 U	180 U	180 U
Nitrobenzene	ug/kg	180 U	180 R	180 U	9000 U	170 U	180 U	180 U	200 U	180 U	170 U	180 U	180 U
1,4-Dichlorobenzene	ug/kg	180 U	180 R	180 U	9000 U	170 U	180 U	180 U	200 U	180 U	170 U	180 U	180 U
1,2,4-Trichlorobenzene	ug/kg	180 U	180 R	180 U	9000 U	170 U	180 U	180 U	200 U	180 U	170 U	180 U	180 U
1,3-Dichlorobenzene	ug/kg	180 U	180 R	180 U	9000 U	170 U	180 U	180 U	200 U	180 U	170 U	180 U	180 U
Hexachlorobutadiene	ug/kg	180 U	180 R	180 U	9000 U	170 U	180 U	180 U	200 U	180 U	170 U	180 U	180 U
1,2-Dichlorobenzene	ug/kg	180 U	180 R	180 U	9000 U	170 U	180 U	180 U	200 U	180 U	170 U	180 U	180 U
4-Nitroaniline	ug/kg	180 U	180 R	180 U	9000 U	170 U	180 U	180 U	200 U	180 U	170 U	180 U	180 U
4-Nitrophenol	ug/kg	530 U	530 R	540 U	27000 U	520 U	540 U	540 U	600 U	540 U	520 U	540 U	550 U
4-Bromophenyl Phenyl Ether	ug/kg	180 U	180 R	180 U	9000 U	170 U	180 U	180 U	200 U	180 U	170 U	180 U	180 U
2,4-Dimethylphenol	ug/kg	180 U	180 R	180 U	9000 U	170 U	180 U	180 U	200 U	180 U	170 U	180 U	180 U
4-Methylphenol	ug/kg	180 U	180 R	180 U	9000 U	170 U	180 U	180 U	200 U	180 U	170 U	180 U	180 U
4-Chloroaniline	ug/kg	180 U	180 R	180 U	9000 U	170 U	180 U	180 U	200 U	180 U	170 U	180 U	180 U
3,5-Dimethylphenol	ug/kg	180 U	180 U	180 U	9000 U	170 U	180 U	180 U	200 U	180 U	170 U	180 U	180 U
Phenol	ug/kg	180 U	180 R	180 U	9000 U	170 U	180 U	180 U	200 U	180 U	170 U	180 U	180 U
Bis(2-Chloroethyl) ether	ug/kg	180 U	180 R	180 U	9000 U	170 U	180 U	180 U	200 U	180 U	170 U	180 U	180 U
Bis(2-Chloroethoxy) methane	ug/kg	180 U	180 R	180 U	9000 U	170 U	180 U	180 U	200 U	180 U	170 U	180 U	180 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	--	350 R	24 J	18000 U	52 J	--	25 J	28 J	--	--	--	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	19 U	--	--	--	--	51	--	--	19 U	11 J	20	20 U
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	--	9000 U	170 U	--	--	--	--	--	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	19 U	19 U	20 U	--	--	20 U	20 U	22 U	19 U	19 U	19 U	20 U
Hexachlorobenzene	ug/kg	180 U	180 R	180 U	9000 U	170 U	180 U	180 U	200 U	180 U	170 U	180 U	180 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	1.8 U	0.87 J	0.63 J	90 U	44 U	1.8 U	1.8 U	2 U	1.8 U	6.4	1.2 J	1.8 U
2,4-Dichlorophenol	ug/kg	180 U	180 R	180 U	9000 U	170 U	180 U	180 U	200 U	180 U	170 U	180 U	180 U
1,2-Diphenylhydrazine	ug/kg	180 U	180 U	180 U	9000 U	170 U	180 U	180 U	200 U	180 U	170 U	180 U	180 U
Pyrene (8270C)	ug/kg	--	55 J	69 J	--	--	--	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	1.8 U	--	--	90 U	44 U	3.2	1.8 U	2 U	0.81 J	37	6.6	1.8 U
Dimethylphthalate (8270C)	ug/kg	--	--	--	9000 U	170 U	--	--	--	--	--	--	--
Dimethylphthalate (8270C SIM)	ug/kg	19 U	19 U	20 U	--	--	160	20 U	22 U	19 U	19 U	19 U	20 U
Dibenzofuran	ug/kg	180 U	180 R	180 U	9000 U	170 U	180 U	180 U	200 U	180 U	170 U	180 U	180 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	20 J	21 J	--	--	--	--	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	1.8 U	--	--	90 U	100	1.3 J	1.7 J	2 U	1.8 U	3.5	1.6 J	1.8 U
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	26 J	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	1.8 U	--	1.3 J	90 U	33 J	1.8 U	1.4 J	2 U	1.8 U	2.7	0.82 J	1.8 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	53 J	21 J	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	1.8 U	--	--	59 J	110	3.2	4.2	1 J	1.4 J	21	4	1.8 U
Fluoranthene (8270C)	ug/kg	--	46 J	87 J	--	--	--	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	1.8 U	--	--	90 U	44 U	4.4	0.97 J	2 UJ	0.83 J	50	8	1.8 U
Benzo(k)fluoranthene (8270C)	ug/kg	--	22 J	--	--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	1.8 U	--	2.4	90 U	44 U	2.1	1.7 J	2 U	0.73 J	11	1.7 J	1.8 U
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	1.8 U	0.55 J	1.8 U	90 U	44 U	1.8 U	1.8 U	2 U	1.8 U	1.7 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-5B

	Sample Name	SL-001-SA5B-SS-0.0-0.5	SL-002-SA5B-SS-0.0-0.5	SL-003-SA5B-SS-0.0-0.5	SL-004-SA5B-SS-0.0-0.5	SL-005-SA5B-SS-0.0-0.5	SL-006-SA5B-SS-0.0-0.5	SL-006-SA5B-SB-4.0-5.0	SL-006-SA5B-SB-5.0-6.0	SL-007-SA5B-SS-0.0-0.5	SL-008-SA5B-SS-0.0-0.5	SL-009-SA5B-SS-0.0-0.5	SL-010-SA5B-SS-0.0-0.5
	Sample Date	12/09/2010	12/09/2010	12/09/2010	12/09/2010	12/09/2010	12/09/2010	12/21/2010	12/21/2010	12/09/2010	12/10/2010	12/10/2010	12/09/2010
	Lab SDG	DE032	DE032	DE031	DE031	DE031	DE032	DE049	DE049	DE032	DE034	DE034	DE032
	Start Depth	0	0	0	0	0	0	4	5	0	0	0	0
	End Depth	0.5	0.5	0.5	0.5	0.5	0.5	5	6	0.5	0.5	0.5	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Chrysene (8270C)	ug/kg	--	52 J	49 J	--	--	--	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	1.8 U	--	--	80 J	93	2.1	1.8	0.64 J	0.81 J	18	3.7	0.43 J
bis(2-Chloroisopropyl) ether	ug/kg	180 U	180 R	180 U	9000 U	170 U	180 U	180 U	200 U	180 U	170 U	180 U	180 U
Benzo(a)pyrene (8270C)	ug/kg	--	39 J	--	--	--	--	--	--	22 J	22 J	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	1.8 U	--	4.1	90 U	34 J	2.2	2.9	2 U	--	--	1.6 J	1.8 U
2,4-Dinitrophenol	ug/kg	2100 U	2100 R	2200 U	110000 U	2100 U	2200 U	2200 U	2400 U	2100 U	2100 U	2100 U	2200 U
4,6-Dinitro-2-Methylphenol	ug/kg	530 U	530 R	540 U	27000 U	520 U	540 U	540 U	600 U	540 U	520 U	540 U	550 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	1.8 U	0.89 J	1.8 U	90 U	36 J	1.8 U	1.8 U	2 U	1.8 U	0.83 J	1.8 U	1.8 U
Benzo(a)anthracene (8270C)	ug/kg	--	49 J	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	1.8 U	--	4.2	90 U	19 J	2.1	2.1	2 U	1.8 U	19	1.4 J	1.8 U
4-Chloro-3-Methylphenol	ug/kg	180 U	180 R	180 U	9000 U	170 U	180 U	180 U	200 U	180 U	170 U	180 U	180 U
N-Nitroso-Di-N-Propylamine	ug/kg	180 U	180 R	180 U	9000 U	170 U	180 U	180 U	200 U	180 U	170 U	180 U	180 U
Aniline	ug/kg	530 U	530 R	540 U	27000 U	520 U	540 U	540 U	600 U	540 U	520 U	540 U	550 U
Benzoic Acid	ug/kg	530 U	530 R	540 U	27000 U	520 U	540 U	540 U	600 U	540 U	520 U	540 U	550 U
Hexachloroethane	ug/kg	180 U	180 R	180 U	9000 U	170 U	180 U	180 U	200 U	180 U	170 U	180 U	180 U
4-Chlorophenyl Phenylether	ug/kg	180 U	180 R	180 U	9000 U	170 U	180 U	180 U	200 U	180 U	170 U	180 U	180 U
Hexachlorocyclopentadiene	ug/kg	530 U	530 R	540 U	27000 U	520 U	540 U	540 U	600 U	540 U	520 U	540 U	550 U
Isophorone	ug/kg	180 U	180 R	180 U	9000 U	170 U	180 U	180 U	200 U	180 U	170 U	180 U	180 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	1.8 U	1.8 U	1.8 U	90 U	44 U	1.8 U	1.8 U	2 U	1.8 U	1.5 J	1.8 U	1.8 U
Diethylphthalate (8270C)	ug/kg	--	--	--	9000 U	170 U	--	--	--	--	--	--	--
Diethylphthalate (8270C SIM)	ug/kg	19 U	19 U	20 U	--	--	20 U	20 U	22 U	19 U	19 U	19 U	20 U
Di-n-Butylphthalate (8270C)	ug/kg	--	--	--	9000 U	170 U	--	--	--	--	--	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	19 U	8.3 J	20 U	--	--	23	20 U	22 U	19 U	19 U	19 U	20 U
Phenanthrene (8270C)	ug/kg	--	--	35 J	--	--	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	1.8 U	1 J	--	90 U	44 U	1.4 J	1.8 U	2 U	1.1 J	20	2.2	1.8 U
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	9000 U	170 U	--	--	--	--	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	19 U	19 U	20 U	--	--	17 J	20 U	22 U	19 U	19 U	7.2 J	20 U
N-Nitrosodiphenylamine	ug/kg	180 U	180 R	180 U	9000 U	170 U	180 U	180 U	200 U	180 U	170 U	180 U	180 U
Fluorene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Fluorene (8270C SIM)	ug/kg	1.8 U	0.84 J	1.8 U	90 U	44 U	1.8 U	1.8 U	2 U	1.8 U	1.6 J	1.8 U	1.8 U
Carbazole	ug/kg	180 U	180 R	180 U	9000 U	170 U	180 U	180 U	200 U	180 U	170 U	180 U	180 U
Pentachlorophenol	ug/kg	530 U	530 R	540 U	27000 U	520 U	540 U	540 U	600 U	540 U	520 U	540 U	550 U
2,4,6-Trichlorophenol	ug/kg	180 U	180 R	180 U	9000 U	170 U	180 U	180 U	200 U	180 U	170 U	180 U	180 U
2-Nitroaniline	ug/kg	180 U	180 R	180 U	9000 U	170 U	180 U	180 U	200 U	180 U	170 U	180 U	180 U
2-Nitrophenol	ug/kg	180 U	180 R	180 U	9000 U	170 U	180 U	180 U	200 U	180 U	170 U	180 U	180 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	1.8 U	1.8 U	1.8 U	90 U	44 U	1.8 U	1.8 U	2 U	1.8 U	1.7 U	1.8 U	1.8 U
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene (8270C SIM)	ug/kg	1.8 U	1.8 U	1.8 U	90 U	44 U	1.8 U	1 J	1.2 J	1.8 U	1.7 U	1.8 U	1.8 U
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	1.8 U	1.8 U	1.8 U	90 U	44 U	1.8 U	1.8 U	2 U	1.8 U	1.7 U	1.8 U	1.8 U
2-Chloronaphthalene	ug/kg	180 U	180 R	180 U	9000 U	170 U	180 U	180 U	200 U	180 U	170 U	180 U	180 U
3,3`-Dichlorobenzidine	ug/kg	350 U	350 R	360 UJ	18000 UJ	350 UJ	360 U	360 U	400 U	360 U	350 U	360 U	370 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-5B

	Sample Name	SL-001-SA5B-SS-0.0-0.5	SL-002-SA5B-SS-0.0-0.5	SL-003-SA5B-SS-0.0-0.5	SL-004-SA5B-SS-0.0-0.5	SL-005-SA5B-SS-0.0-0.5	SL-006-SA5B-SS-0.0-0.5	SL-006-SA5B-SB-4.0-5.0	SL-006-SA5B-SB-5.0-6.0	SL-007-SA5B-SS-0.0-0.5	SL-008-SA5B-SS-0.0-0.5	SL-009-SA5B-SS-0.0-0.5	SL-010-SA5B-SS-0.0-0.5
	Sample Date	12/09/2010	12/09/2010	12/09/2010	12/09/2010	12/09/2010	12/09/2010	12/21/2010	12/21/2010	12/09/2010	12/10/2010	12/10/2010	12/09/2010
	Lab SDG	DE032	DE032	DE031	DE031	DE031	DE032	DE049	DE049	DE032	DE034	DE034	DE032
	Start Depth	0	0	0	0	0	0	4	5	0	0	0	0
	End Depth	0.5	0.5	0.5	0.5	0.5	0.5	5	6	0.5	0.5	0.5	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Benzidine	ug/kg	3500 U	3500 R	3600 U	180000 U	3500 U	3600 U	3600 U	4000 U	3600 U	3500 U	3600 U	3700 U
2-Methylphenol	ug/kg	180 U	180 R	180 U	9000 U	170 U	180 U	180 U	200 U	180 U	170 U	180 U	180 U
2-Chlorophenol	ug/kg	180 U	180 R	180 U	9000 U	170 U	180 U	180 U	200 U	180 U	170 U	180 U	180 U
2,4,5-Trichlorophenol	ug/kg	180 U	180 R	180 U	9000 U	170 U	180 U	180 U	200 U	180 U	170 U	180 U	180 U
3-Nitroaniline	ug/kg	180 U	180 R	180 U	9000 U	170 U	180 U	180 U	200 U	180 U	170 U	180 U	180 U
Benzyl Alcohol	ug/kg	530 U	530 R	540 U	27000 U	520 U	540 U	540 U	600 U	540 U	520 U	540 U	550 U
2,6-Dinitrotoluene	ug/kg	180 U	180 R	180 U	9000 U	170 U	180 U	180 U	200 U	180 U	170 U	180 U	180 U

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

	Sample Name	SL-011-SA5B-SS-0.0-0.5	SL-012-SA5B-SS-0.0-0.5	SL-013-SA5B-SS-0.0-0.5	SL-014-SA5B-SS-0.0-0.5	SL-014-SA5B-SB-4.0-5.0	SL-015-SA5B-SB-4.0-5.0	SL-016-SA5B-SB-4.0-5.0	SL-016-SA5B-SB-9.0-10.0	SL-017-SA5B-SS-0.0-0.5	SL-017-SA5B-SB-4.0-5.0	SL-017-SA5B-SB-9.0-10.0	SL-018-SA5B-SS-0.0-0.5
	Sample Date	12/09/2010	12/09/2010	12/09/2010	12/09/2010	01/20/2011	01/26/2011	01/26/2011	01/26/2011	12/08/2010	01/27/2011	01/27/2011	12/09/2010
	Lab SDG	DE032	DE032	DE032	DE032	DE065	DE069	DE069	DE069	DE033	DE070	DE070	DE032
	Start Depth	0	0	0	0	4	4	4	9	0	4	9	0
	End Depth	0.5	0.5	0.5	0.5	5	5	5	10	0.5	5	10	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
N-Nitrosodimethylamine (1625C)	ng/kg	21.3 J	--	--	37 U	60.7	259	207	368	21.8 J	192 U	201	42.7
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.8 U	1.8 UJ	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U
2,4-Dinitrotoluene	ug/kg	180 U	180 U	180 U	190 U	190 U	190 U	190 U	180 U	180 U	190 U	180 U	180 U
Nitrobenzene	ug/kg	180 U	180 U	180 U	190 U	190 U	190 U	190 U	180 U	180 U	190 U	180 U	180 U
1,4-Dichlorobenzene	ug/kg	180 U	180 U	180 U	190 U	190 U	190 U	190 U	180 U	180 U	190 U	180 U	180 U
1,2,4-Trichlorobenzene	ug/kg	180 U	180 U	180 U	190 U	190 U	190 U	190 U	180 U	180 U	190 U	180 U	180 U
1,3-Dichlorobenzene	ug/kg	180 U	180 U	180 U	190 U	190 U	190 U	190 U	180 U	180 U	190 U	180 U	180 U
Hexachlorobutadiene	ug/kg	180 U	180 U	180 U	190 U	190 U	190 U	190 U	180 U	180 U	190 U	180 U	180 U
1,2-Dichlorobenzene	ug/kg	180 U	180 U	180 U	190 U	190 U	190 U	190 U	180 U	180 U	190 U	180 U	180 U
4-Nitroaniline	ug/kg	180 U	180 U	180 U	190 U	190 U	190 U	190 U	180 U	180 U	190 U	180 U	180 U
4-Nitrophenol	ug/kg	550 U	550 U	540 U	560 U	570 U	580 U	570 U	550 U	550 U	580 U	550 U	550 U
4-Bromophenyl Phenyl Ether	ug/kg	180 U	180 U	180 U	190 U	190 U	190 U	190 U	180 U	180 U	190 U	180 U	180 U
2,4-Dimethylphenol	ug/kg	180 U	180 U	180 U	190 U	190 U	190 U	190 U	180 U	180 U	190 U	180 U	180 U
4-Methylphenol	ug/kg	180 U	180 U	180 U	190 U	190 U	190 U	190 U	180 U	180 U	190 U	180 U	180 U
4-Chloroaniline	ug/kg	180 U	180 U	180 U	190 U	190 U	190 U	190 U	180 U	180 U	190 U	180 U	180 U
3,5-Dimethylphenol	ug/kg	180 U	180 U	180 U	190 U	190 U	190 U	190 U	180 U	180 U	190 U	180 U	180 U
Phenol	ug/kg	180 U	180 U	180 U	190 U	190 U	190 U	190 U	19 J	180 U	190 U	180 U	180 U
Bis(2-Chloroethyl) ether	ug/kg	180 U	180 U	180 U	190 U	190 U	190 U	190 U	180 U	180 U	190 U	180 U	180 U
Bis(2-Chloroethoxy) methane	ug/kg	180 U	180 U	180 U	190 U	190 U	190 U	190 U	180 U	180 U	190 U	180 U	180 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	--	--	--	--	--	390 U	--	40 J	20 J	32 J	--	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	20 U	88 J	20 U	20 U	11 J	--	9 J	--	--	--	30	20 U
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	20 U	20 U	20 U	20 U	20 U	21 U	21 U	20 U	20 U	9.1 J	20 U	20 U
Hexachlorobenzene	ug/kg	180 U	180 U	180 U	190 U	190 U	190 U	190 U	180 U	180 U	190 U	180 U	180 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	1.8 U	1.8 UJ	3.5	1.9 U	0.45 J	0.56 J	1.9 U	2.3	1.8 U	1.9	1 J	1.8 U
2,4-Dichlorophenol	ug/kg	180 U	180 U	180 U	190 U	190 U	190 U	190 U	180 U	180 U	190 U	180 U	180 U
1,2-Diphenylhydrazine	ug/kg	180 U	180 U	180 U	190 U	190 U	190 U	190 U	180 U	180 U	190 U	180 U	180 U
Pyrene (8270C)	ug/kg	19 J	--	--	--	--	--	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	--	1 J	28	0.94 J	1.8 J	9.3	1.9 U	6.1	3.2	7.1	3.2	1.2 J
Dimethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Dimethylphthalate (8270C SIM)	ug/kg	20 U	20 U	20 U	20 U	20 U	21 U	21 U	20 U	20 U	23 J	20 U	20 U
Dibenzofuran	ug/kg	180 U	180 U	180 U	190 U	190 U	190 U	190 U	180 U	180 U	190 U	180 U	180 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	1.1 J	1.8 UJ	4	1.9 U	3	4.5	1.9 U	0.84 J	0.75 J	2	2.1	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	1.8 UJ	4	1.9 U	1.9 U	3.5	1.9 U	1.8 U	1.8 U	1 J	1.8 U	1.1 J
Benzo(b)fluoranthene (8270C)	ug/kg	20 J	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	--	1.8 UJ	27	1.4 J	3.5	19	3.2	4.9	3.2	3.3	2	1.2 J
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	2.9	1.8 UJ	39	1.1 J	1.4 J	4.6	1.9 U	7.6	4.1	9.3	3.7	1.2 J
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	1.2 J	1.8 UJ	12	1.9 U	1.9 U	8.7	1.9 U	1.8 U	1.4 J	1.3 J	0.78 J	0.8 J
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	1.8 U	1.8 U	0.66 J	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	1.8 U	0.68 J	1.8 U	1.8 U

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Appendix A6
Semivolatile Organics - Validated Data
HSA-5B

	Sample Name	SL-011-SA5B-SS-0.0-0.5	SL-012-SA5B-SS-0.0-0.5	SL-013-SA5B-SS-0.0-0.5	SL-014-SA5B-SS-0.0-0.5	SL-014-SA5B-SB-4.0-5.0	SL-015-SA5B-SB-4.0-5.0	SL-016-SA5B-SB-4.0-5.0	SL-016-SA5B-SB-9.0-10.0	SL-017-SA5B-SS-0.0-0.5	SL-017-SA5B-SB-4.0-5.0	SL-017-SA5B-SB-9.0-10.0	SL-018-SA5B-SS-0.0-0.5
	Sample Date	12/09/2010	12/09/2010	12/09/2010	12/09/2010	01/20/2011	01/26/2011	01/26/2011	01/26/2011	12/08/2010	01/27/2011	01/27/2011	12/09/2010
	Lab SDG	DE032	DE032	DE032	DE032	DE065	DE069	DE069	DE069	DE033	DE070	DE070	DE032
	Start Depth	0	0	0	0	4	4	4	9	0	4	9	0
	End Depth	0.5	0.5	0.5	0.5	5	5	5	10	0.5	5	10	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Chrysene (8270C)	ug/kg	21 J	--	--	--	--	--	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	--	1.8 UJ	19	0.91 J	6.3	12	0.82 J	2.8	2	4.7	3.9	0.88 J
bis(2-Chloroisopropyl) ether	ug/kg	180 U	180 U	180 U	190 U	190 U	190 U	190 U	180 U	180 UJ	190 U	180 U	180 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	20 J	--	--	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	1.9	1.8 UJ	16	--	3.3	12	0.97 J	1.2 J	1.8	1.7 J	2.8	0.85 J
2,4-Dinitrophenol	ug/kg	2200 U	2200 U	2200 U	2200 U	1100 U	1200 U	1100 U	1100 U	2200 U	1200 U	1100 U	2200 U
4,6-Dinitro-2-Methylphenol	ug/kg	550 U	550 U	540 U	560 U	570 U	580 U	570 U	550 U	550 U	580 U	550 U	550 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	1.8 U	1.8 U	2	1.9 U	1.1 J	1.7 J	1.9 U	1.8 U	1.8 U	1.9 U	1.8 U	1.9
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	1.4 J	1.8 UJ	21	0.78 J	1.4 J	8.2	1.9 U	2.3	2.2	2.3	2.4	0.84 J
4-Chloro-3-Methylphenol	ug/kg	180 U	180 U	180 U	190 U	190 U	190 U	190 U	180 U	180 U	190 U	180 U	180 U
N-Nitroso-Di-N-Propylamine	ug/kg	180 U	180 U	180 U	190 U	190 U	190 U	190 U	180 U	180 U	190 U	180 U	180 U
Aniline	ug/kg	550 U	550 U	540 U	560 U	570 U	580 U	570 U	550 U	550 U	580 U	550 U	550 U
Benzoic Acid	ug/kg	550 U	550 U	540 U	560 U	570 U	580 U	570 U	550 U	550 U	580 U	550 U	550 U
Hexachloroethane	ug/kg	180 U	180 U	180 U	190 U	190 U	190 U	190 U	180 U	180 U	190 U	180 U	180 U
4-Chlorophenyl Phenylether	ug/kg	180 U	180 U	180 U	190 U	190 U	190 U	190 U	180 U	180 U	190 U	180 U	180 U
Hexachlorocyclopentadiene	ug/kg	550 U	550 U	540 U	560 U	570 U	580 U	570 U	550 U	550 U	580 U	550 U	550 U
Isophorone	ug/kg	180 U	180 U	180 U	190 U	190 U	190 U	190 U	180 U	180 U	190 U	180 U	180 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	1.8 U	1.8 U	0.76 J	1.9 U	1.9 U	1.9 U	1.9 U	0.75 J	1.8 U	1.9 U	1.8 U	1.8 U
Diethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Diethylphthalate (8270C SIM)	ug/kg	20 U	20 U	20 U	20 U	22	21 U	19 J	20 U	20 U	21 U	20 U	20 U
Di-n-Butylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	7.3 J	7 J	20 U	9.3 J	7 J	21 U	21 U	20 U	20 U	8.5 J	20 U	20 U
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	0.87 J	1.8 UJ	6.2	1.9 U	0.82 J	0.9 J	1.9 U	9.3	1.1 J	1.8 J	3.4	1.8 U
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	20 U	20 U	20 U	20 U	9.9 J	21 U	21 U	20 U	20 U	21 U	20 U	20 U
N-Nitrosodiphenylamine	ug/kg	180 U	180 U	180 U	190 U	190 U	190 U	190 U	180 U	180 U	190 U	180 U	180 U
Fluorene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Fluorene (8270C SIM)	ug/kg	1.8 U	1.8 U	1.1 J	1.9 U	1.9 U	1.9 U	1.9 U	1.4 J	1.8 U	1.9 U	0.77 J	1.8 U
Carbazole	ug/kg	180 U	180 U	180 U	190 U	190 U	190 U	190 U	180 U	180 U	190 U	180 U	180 U
Pentachlorophenol	ug/kg	550 U	550 U	540 U	560 U	570 U	580 U	570 U	550 U	550 U	580 U	550 U	550 U
2,4,6-Trichlorophenol	ug/kg	180 U	180 U	180 U	190 U	190 U	190 U	190 U	180 U	180 U	190 U	180 U	180 U
2-Nitroaniline	ug/kg	180 U	180 U	180 U	190 U	190 U	190 U	190 U	180 U	180 U	190 U	180 U	180 U
2-Nitrophenol	ug/kg	180 U	180 U	180 U	190 U	190 U	190 U	190 U	180 U	180 U	190 U	180 U	180 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	1.9 U	1.9 U	1.8 U	1.8 U	1.9 U	1.8 U	1.8 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	1.9 U	1.9 U	0.78 J	1.8 U	1.3 J	0.76 J	1.8 U
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	1.9 U	1.9 U	0.75 J	1.8 U	1.9 U	1.8 U	1.8 U
2-Chloronaphthalene	ug/kg	180 U	180 U	180 U	190 U	190 U	190 U	190 U	180 U	180 U	190 U	180 U	180 U
3,3`-Dichlorobenzidine	ug/kg	360 U	360 U	360 U	370 U	380 UJ	390 U	380 U	370 U	360 U	380 U	370 U	370 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-5B

	Sample Name	SL-011-SA5B-SS-0.0-0.5	SL-012-SA5B-SS-0.0-0.5	SL-013-SA5B-SS-0.0-0.5	SL-014-SA5B-SS-0.0-0.5	SL-014-SA5B-SB-4.0-5.0	SL-015-SA5B-SB-4.0-5.0	SL-016-SA5B-SB-4.0-5.0	SL-016-SA5B-SB-9.0-10.0	SL-017-SA5B-SS-0.0-0.5	SL-017-SA5B-SB-4.0-5.0	SL-017-SA5B-SB-9.0-10.0	SL-018-SA5B-SS-0.0-0.5
	Sample Date	12/09/2010	12/09/2010	12/09/2010	12/09/2010	01/20/2011	01/26/2011	01/26/2011	01/26/2011	12/08/2010	01/27/2011	01/27/2011	12/09/2010
	Lab SDG	DE032	DE032	DE032	DE032	DE065	DE069	DE069	DE069	DE033	DE070	DE070	DE032
	Start Depth	0	0	0	0	4	4	4	9	0	4	9	0
	End Depth	0.5	0.5	0.5	0.5	5	5	5	10	0.5	5	10	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Benzidine	ug/kg	3600 U	3600 U	3600 U	3700 U	3800 U	3900 U	3800 U	3700 U	3600 U	3800 U	3700 U	3700 U
2-Methylphenol	ug/kg	180 U	180 U	180 U	190 U	190 U	190 U	190 U	180 U	180 U	190 U	180 U	180 U
2-Chlorophenol	ug/kg	180 U	180 U	180 U	190 U	190 U	190 U	190 U	180 U	180 U	190 U	180 U	180 U
2,4,5-Trichlorophenol	ug/kg	180 U	180 U	180 U	190 U	190 U	190 U	190 U	180 U	180 U	190 U	180 U	180 U
3-Nitroaniline	ug/kg	180 U	180 U	180 U	190 U	190 U	190 U	190 U	180 U	180 U	190 U	180 U	180 U
Benzyl Alcohol	ug/kg	550 U	550 U	540 U	560 U	570 U	580 U	570 U	550 U	550 U	580 U	550 U	550 U
2,6-Dinitrotoluene	ug/kg	180 U	180 U	180 U	190 U	190 U	190 U	190 U	180 U	180 U	190 U	180 U	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-5B

	Sample Name	SL-018-SA5B-SB-4.0-5.0	SL-018-SA5B-SB-9.0-10.0	SL-019-SA5B-SB-4.0-5.0	SL-020-SA5B-SS-0.0-0.5	SL-021-SA5B-SB-4.0-5.0	SL-021-SA5B-SB-9.0-10.0	SL-022-SA5B-SS-0.0-0.5	SL-022-SA5B-SB-2.0-3.0	SL-024-SA5B-SS-0.0-0.5	SL-024-SA5B-SB-4.0-5.0	SL-024-SA5B-SB-9.0-10.0	SL-025-SA5B-SB-4.0-5.0
	Sample Date	01/26/2011	01/26/2011	01/20/2011	12/09/2010	01/27/2011	01/27/2011	12/08/2010	01/19/2011	12/22/2010	01/19/2011	01/19/2011	01/19/2011
	Lab SDG	DE069	DE069	DE065	DE032	DE070	DE070	DE032	DE064	DE051	DE064	DE064	DE064
	Start Depth	4	9	4	0	4	9	0	2	0	4	9	4
	End Depth	5	10	5	0.5	5	10	0.5	3	0.5	5	10	5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
N-Nitrosodimethylamine (1625C)	ng/kg	92.9	114	45.2	27.6 J	146	426	69.7	34.2 U	--	--	--	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.9 U	1.9 U	1.8 U	1.8 U	1.9 U	1.9 U	1.8 U	1.7 U	2.1 U	1.9 U	1.8 U	1.8 U
2,4-Dinitrotoluene	ug/kg	190 U	190 U	180 U	180 U	190 U	190 U	180 U	170 U	210 U	190 U	180 U	180 U
Nitrobenzene	ug/kg	190 U	190 U	180 U	180 U	190 U	190 U	180 U	170 U	210 U	190 U	180 U	180 U
1,4-Dichlorobenzene	ug/kg	190 U	190 U	180 U	180 U	190 U	190 U	180 U	170 U	210 U	190 U	180 U	180 U
1,2,4-Trichlorobenzene	ug/kg	190 U	190 U	180 U	180 U	190 U	190 U	180 U	170 U	210 U	190 U	180 U	180 U
1,3-Dichlorobenzene	ug/kg	190 U	190 U	180 U	180 U	190 U	190 U	180 U	170 U	210 U	190 U	180 U	180 U
Hexachlorobutadiene	ug/kg	190 U	190 U	180 U	180 U	190 U	190 U	180 U	170 U	210 U	190 U	180 U	180 U
1,2-Dichlorobenzene	ug/kg	190 U	190 U	180 U	180 U	190 U	190 U	180 U	170 U	210 U	190 U	180 U	180 U
4-Nitroaniline	ug/kg	190 U	190 U	180 U	180 U	190 U	190 U	180 U	170 U	210 U	190 U	180 U	180 U
4-Nitrophenol	ug/kg	580 U	560 U	550 U	550 U	560 U	560 U	550 U	510 U	630 U	570 U	550 U	550 U
4-Bromophenyl Phenyl Ether	ug/kg	190 U	190 U	180 U	180 U	190 U	190 U	180 U	170 U	210 U	190 U	180 U	180 U
2,4-Dimethylphenol	ug/kg	190 U	190 U	180 U	180 U	190 U	190 U	180 U	170 U	210 U	190 U	180 U	180 U
4-Methylphenol	ug/kg	190 U	190 U	180 U	180 U	190 U	190 U	180 U	170 U	210 U	190 U	180 U	180 U
4-Chloroaniline	ug/kg	190 U	190 U	180 U	180 U	190 U	190 U	180 U	170 U	210 U	190 U	180 U	180 U
3,5-Dimethylphenol	ug/kg	190 U	190 U	180 U	180 U	190 U	190 U	180 U	170 U	210 U	190 U	180 U	180 U
Phenol	ug/kg	190 U	190 U	180 U	180 U	190 U	190 U	180 U	170 U	210 U	190 U	180 U	180 U
Bis(2-Chloroethyl) ether	ug/kg	190 U	190 U	180 U	180 U	190 U	190 U	180 U	170 U	210 U	190 U	180 U	180 U
Bis(2-Chloroethoxy) methane	ug/kg	190 U	190 U	180 U	180 U	190 U	190 U	180 U	170 U	210 U	190 U	180 U	180 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	--	--	--	--	34 J	--	--	--	--	--	--	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	21 U	10 J	20 U	20 U	--	170	33	18 U	23 U	20 U	20 U	20 U
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	21 U	20 U	20 U	20 U	20 U	20 U	20 U	18 U	23 U	20 U	20 U	20 U
Hexachlorobenzene	ug/kg	190 U	190 U	180 U	180 U	190 U	190 U	180 U	170 U	210 U	190 U	180 U	180 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.8 U	1.8 U	24	1.4 J	1.8 U	1.7 U	2.1 U	1.9 U	1.8 U	1.8 U
2,4-Dichlorophenol	ug/kg	190 U	190 U	180 U	180 U	190 U	190 U	180 U	170 U	210 U	190 U	180 U	180 U
1,2-Diphenylhydrazine	ug/kg	190 U	190 U	180 U	180 U	190 U	190 U	180 U	170 U	210 U	190 U	180 U	180 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	21 J	27 J	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.8 U	0.84 J	93	--	--	1.7 U	2 J	1.9 U	1.8 U	1.8 U
Dimethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Dimethylphthalate (8270C SIM)	ug/kg	21 U	20 U	20 U	20 U	20 U	20 U	20 U	18 U	23 U	20 U	20 U	20 U
Dibenzofuran	ug/kg	190 U	190 U	180 U	180 U	190 U	64 J	180 U	170 U	210 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	1.8 U	1.8 U	3.9	2.3	2.1	1.7 U	2.1 U	1.9 U	1.8 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	1.9 U	1.8 U	1.8 U	2.8	1.9 U	1.6 J	1.7 U	2.1 U	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	1.9 U	1.8 U	1.8 U	35	2	6.2	1.7 U	2.6	1.9 U	1.8 U	1.8 U
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	22 J	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.8 U	0.82 J	150	3.8	--	1.7 U	2.3	1.9 U	1.8 U	1.8 U
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.8 U	1.8 U	9.9	0.79 J	2.4	1.7 U	0.85 J	1.9 U	1.8 U	1.8 U
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.8 U	1.8 U	8.5	0.41 J	1.8 U	1.7 U	2.1 U	1.9 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-5B

	Sample Name	SL-018-SA5B-SB-4.0-5.0	SL-018-SA5B-SB-9.0-10.0	SL-019-SA5B-SB-4.0-5.0	SL-020-SA5B-SS-0.0-0.5	SL-021-SA5B-SB-4.0-5.0	SL-021-SA5B-SB-9.0-10.0	SL-022-SA5B-SS-0.0-0.5	SL-022-SA5B-SB-2.0-3.0	SL-024-SA5B-SS-0.0-0.5	SL-024-SA5B-SB-4.0-5.0	SL-024-SA5B-SB-9.0-10.0	SL-025-SA5B-SB-4.0-5.0
	Sample Date	01/26/2011	01/26/2011	01/20/2011	12/09/2010	01/27/2011	01/27/2011	12/08/2010	01/19/2011	12/22/2010	01/19/2011	01/19/2011	01/19/2011
	Lab SDG	DE069	DE069	DE065	DE032	DE070	DE070	DE032	DE064	DE051	DE064	DE064	DE064
	Start Depth	4	9	4	0	4	9	0	2	0	4	9	4
	End Depth	5	10	5	0.5	5	10	0.5	3	0.5	5	10	5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Chrysene (8270C)	ug/kg	--	--	--	--	--	44 J	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.8 U	1 J	52	--	3.5	1.7 U	1.6 J	1.9 U	1.8 U	1.8 U
bis(2-Chloroisopropyl) ether	ug/kg	190 U	190 U	180 U	180 U	190 U	190 U	180 U	170 U	210 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	1.8 U	1.8 U	6.8	2.9	4	1.7 U	1.3 J	1.9 U	1.8 U	1.8 U
2,4-Dinitrophenol	ug/kg	1200 U	1100 U	1100 U	2200 U	1100 U	1100 U	2200 U	1000 U	2500 U	1100 U	1100 U	1100 U
4,6-Dinitro-2-Methylphenol	ug/kg	580 U	560 U	550 U	550 U	560 U	560 U	550 U	510 U	630 U	570 U	550 U	550 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.8 U	1.8 U	1.5 J	1.9 U	1.8 U	1.7 U	2.1 U	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	1.9 U	1.8 U	1.8 U	19	1.6 J	3.8	1.7 U	1.3 J	1.9 U	1.8 U	1.8 U
4-Chloro-3-Methylphenol	ug/kg	190 U	190 U	180 U	180 U	190 U	190 U	180 U	170 U	210 U	190 U	180 U	180 U
N-Nitroso-Di-N-Propylamine	ug/kg	190 U	190 U	180 U	180 U	190 U	190 U	180 U	170 U	210 U	190 U	180 U	180 U
Aniline	ug/kg	580 U	560 U	550 U	550 U	560 U	560 U	550 U	510 U	630 U	570 U	550 U	550 U
Benzoic Acid	ug/kg	580 U	560 U	550 U	550 U	560 U	560 U	550 U	510 U	630 U	570 U	550 U	550 U
Hexachloroethane	ug/kg	190 U	190 U	180 U	180 U	190 U	190 U	180 U	170 U	210 U	190 U	180 U	180 U
4-Chlorophenyl Phenylether	ug/kg	190 U	190 U	180 U	180 U	190 U	190 U	180 U	170 U	210 U	190 U	180 U	180 U
Hexachlorocyclopentadiene	ug/kg	580 U	560 U	550 U	550 U	560 U	560 U	550 U	510 U	630 U	570 U	550 U	550 U
Isophorone	ug/kg	190 U	190 U	180 U	180 U	190 U	190 U	180 U	170 U	210 U	190 U	180 U	180 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	82 J	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.8 U	1.8 U	1.9 U	--	1.8 U	1.7 U	2.1 U	1.9 U	1.8 U	1.8 U
Diethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Diethylphthalate (8270C SIM)	ug/kg	15 J	20 U	20 U	20 U	20 U	20 U	20 U	18 U	23 U	20 U	20 U	20 U
Di-n-Butylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	21 U	20 U	20 U	7.6 J	7.6 J	20 U	9.1 J	18 U	12 J	20 U	20 U	20 U
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	77 J	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.8 U	1.8 U	24	--	0.82 J	1.7 U	2.1 U	1.9 U	1.8 U	1.8 U
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	21 U	20 U	20 U	20 U	20 U	20 U	20 U	18 U	23 U	20 U	20 U	20 U
N-Nitrosodiphenylamine	ug/kg	190 U	190 U	180 U	180 U	190 U	190 U	180 U	170 U	210 U	190 U	180 U	180 UJ
Fluorene (8270C)	ug/kg	--	--	--	--	--	68 J	--	--	--	--	--	--
Fluorene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.8 U	1.8 U	1.7 J	--	1.8 U	1.7 U	2.1 U	1.9 U	1.8 U	1.8 U
Carbazole	ug/kg	190 U	190 U	180 U	180 U	190 U	97 J	180 U	170 U	210 U	190 U	180 U	180 U
Pentachlorophenol	ug/kg	580 U	560 U	550 U	550 U	560 U	560 U	550 U	510 U	630 U	570 U	550 U	550 U
2,4,6-Trichlorophenol	ug/kg	190 U	190 U	180 U	180 U	190 U	190 U	180 U	170 U	210 U	190 U	180 U	180 U
2-Nitroaniline	ug/kg	190 U	190 U	180 U	180 U	190 U	190 U	180 U	170 U	210 U	190 U	180 U	180 U
2-Nitrophenol	ug/kg	190 U	190 U	180 U	180 U	190 U	190 U	180 U	170 U	210 U	190 U	180 U	180 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	23 J	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.8 U	1.8 U	1.9 U	--	1.8 U	1.7 U	2.1 U	1.9 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	1.9 U	3.1	1.8 U	1.7 U	2.1 U	1.9 U	1.8 U	1.8 U
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	22 J	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.8 U	1.8 U	1.9 U	--	1.8 U	1.7 U	2.1 U	1.9 U	1.8 U	1.8 U
2-Chloronaphthalene	ug/kg	190 U	190 U	180 U	180 U	190 U	190 U	180 U	170 U	210 U	190 U	180 U	180 U
3,3`-Dichlorobenzidine	ug/kg	390 U	370 U	370 UJ	360 U	370 U	370 U	360 U	340 U	420 U	380 U	370 U	360 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-5B

	Sample Name	SL-018-SA5B-SB-4.0-5.0	SL-018-SA5B-SB-9.0-10.0	SL-019-SA5B-SB-4.0-5.0	SL-020-SA5B-SS-0.0-0.5	SL-021-SA5B-SB-4.0-5.0	SL-021-SA5B-SB-9.0-10.0	SL-022-SA5B-SS-0.0-0.5	SL-022-SA5B-SB-2.0-3.0	SL-024-SA5B-SS-0.0-0.5	SL-024-SA5B-SB-4.0-5.0	SL-024-SA5B-SB-9.0-10.0	SL-025-SA5B-SB-4.0-5.0
	Sample Date	01/26/2011	01/26/2011	01/20/2011	12/09/2010	01/27/2011	01/27/2011	12/08/2010	01/19/2011	12/22/2010	01/19/2011	01/19/2011	01/19/2011
	Lab SDG	DE069	DE069	DE065	DE032	DE070	DE070	DE032	DE064	DE051	DE064	DE064	DE064
	Start Depth	4	9	4	0	4	9	0	2	0	4	9	4
	End Depth	5	10	5	0.5	5	10	0.5	3	0.5	5	10	5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Benzidine	ug/kg	3900 U	3700 U	3700 U	3600 U	3700 U	3700 U	3600 U	3400 U	4200 U	3800 U	3700 U	3600 UJ
2-Methylphenol	ug/kg	190 U	190 U	180 U	180 U	190 U	190 U	180 U	170 U	210 U	190 U	180 U	180 U
2-Chlorophenol	ug/kg	190 U	190 U	180 U	180 U	190 U	190 U	180 U	170 U	210 U	190 U	180 U	180 U
2,4,5-Trichlorophenol	ug/kg	190 U	190 U	180 U	180 U	190 U	190 U	180 U	170 U	210 U	190 U	180 U	180 U
3-Nitroaniline	ug/kg	190 U	190 U	180 U	180 U	190 U	190 U	180 U	170 U	210 U	190 U	180 U	180 U
Benzyl Alcohol	ug/kg	580 U	560 U	550 U	550 U	560 U	560 U	550 U	510 U	630 U	570 U	550 U	550 U
2,6-Dinitrotoluene	ug/kg	190 U	190 U	180 U	180 U	190 U	190 U	180 U	170 U	210 U	190 U	180 U	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-5B

	Sample Name	SL-025-SA5B-SB-9.0-10.0	SL-026-SA5B-SS-0.0-0.5	SL-026-SA5B-SB-4.0-5.0	SL-026-SA5B-SB-9.0-10	SL-027-SA5B-SS-0.0-0.5	SL-027-SA5B-SB-4.0-5.0	SL-027-SA5B-SB-8.0-9.0	SL-029-SA5B-SS-0.0-0.5	SL-029-SA5B-SB-4.0-5.0	SL-029-SA5B-SB-9.0-10.0	SL-030-SA5B-SB-4.0-5.0	SL-030-SA5B-SB-9.0-10.0
	Sample Date	01/19/2011	12/08/2010	12/17/2010	12/17/2010	01/05/2011	12/15/2010	12/15/2010	12/08/2010	01/20/2011	01/20/2011	01/20/2011	01/20/2011
	Lab SDG	DE064	DE031	DE045	DE045	DE053	DE041	DE041	DE033	DE065	DE065	DE065	DE065
	Start Depth	9	0	4	9	0	4	8	0	4	9	4	9
	End Depth	10	0.5	5	10	0.5	5	9	0.5	5	10	5	10
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
N-Nitrosodimethylamine (1625C)	ng/kg	--	--	76.2	19.3 J	--	29.9 J	99	--	75.6	55.5	83.9	91.3
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U	2 U	1.8 U	1.8 U	1.9 U	1.9 U	2 U	1.9 U
2,4-Dinitrotoluene	ug/kg	190 U	180 U	190 U	180 U	190 U	200 U	180 U	180 U	190 U	190 U	200 U	190 U
Nitrobenzene	ug/kg	190 U	180 U	190 U	180 U	190 U	200 U	180 U	180 U	190 U	190 U	200 U	190 U
1,4-Dichlorobenzene	ug/kg	190 U	180 U	190 U	180 U	190 U	200 U	180 U	180 U	190 U	190 U	200 U	190 U
1,2,4-Trichlorobenzene	ug/kg	190 U	180 U	190 U	180 U	190 U	200 U	180 U	180 U	190 U	190 U	200 U	190 U
1,3-Dichlorobenzene	ug/kg	190 U	180 U	190 U	180 U	190 U	200 U	180 U	180 U	190 U	190 U	200 U	190 U
Hexachlorobutadiene	ug/kg	190 U	180 U	190 U	180 U	190 U	200 U	180 U	180 U	190 U	190 U	200 U	190 U
1,2-Dichlorobenzene	ug/kg	190 U	180 U	190 U	180 U	190 U	200 U	180 U	180 U	190 U	190 U	200 U	190 U
4-Nitroaniline	ug/kg	190 U	180 U	190 U	180 U	190 U	200 U	180 U	180 U	190 U	190 U	200 U	190 U
4-Nitrophenol	ug/kg	560 U	540 U	560 U	550 U	580 U	600 U	550 U	550 U	570 U	560 U	590 U	570 U
4-Bromophenyl Phenyl Ether	ug/kg	190 U	180 U	190 U	180 U	190 U	200 U	180 U	180 U	190 U	190 U	200 U	190 U
2,4-Dimethylphenol	ug/kg	190 U	180 U	190 U	180 U	190 U	200 U	180 U	180 U	190 U	190 U	200 U	190 U
4-Methylphenol	ug/kg	190 U	180 U	190 U	180 U	190 U	200 U	180 U	180 U	190 U	190 U	200 U	190 U
4-Chloroaniline	ug/kg	190 U	180 U	190 U	180 U	190 U	200 U	180 U	180 U	190 U	190 U	200 U	190 U
3,5-Dimethylphenol	ug/kg	190 U	180 U	190 U	180 U	190 U	200 U	180 U	180 U	190 U	190 U	200 U	190 U
Phenol	ug/kg	190 U	180 U	190 U	180 U	190 U	200 U	180 U	180 U	190 U	190 U	200 U	190 U
Bis(2-Chloroethyl) ether	ug/kg	190 U	180 U	190 U	180 U	190 U	200 U	180 U	180 U	190 U	190 U	200 U	190 U
Bis(2-Chloroethoxy) methane	ug/kg	190 U	180 U	190 U	180 U	190 U	200 U	180 U	180 U	190 U	190 U	200 U	190 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	23 J	--	--	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	9.3 J	13 J	11 J	6.9 J	7.9 J	7.2 J	11 J	20 U	12 J	190	34	71
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	20 U	19 U	20 U	20 U	21 U	22 U	9.2 J	20 U	21 U	20 U	21 U	21 U
Hexachlorobenzene	ug/kg	190 U	180 U	190 U	180 U	190 U	200 U	180 U	180 U	190 U	190 U	200 U	190 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	1.9 U	1.8 U	1.9 U	1.8 U	0.44 J	2 U	1.8 U	1.8 U	0.93 J	6.8	2 U	1.8 J
2,4-Dichlorophenol	ug/kg	190 U	180 U	190 U	180 U	190 U	200 U	180 U	180 U	190 U	190 U	200 U	190 U
1,2-Diphenylhydrazine	ug/kg	190 U	180 U	190 U	180 U	190 U	200 U	180 U	180 U	190 U	190 U	200 U	190 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	1.9 U	2	1.9 U	1.8 U	7.2	2 U	1.4 J	2.8	4.2	18	2.7	5.6
Dimethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Dimethylphthalate (8270C SIM)	ug/kg	20 U	19 U	20 U	20 U	21 U	22 U	20 U	20 U	21 U	20 U	21 U	21 U
Dibenzofuran	ug/kg	190 U	180 U	190 U	180 U	190 U	200 U	180 U	180 U	190 U	190 U	200 U	190 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	1.9 U	0.86 J	1.9 U	1.8 U	2.4	2 U	1.8 U	0.94 J	1.9 U	3.8	0.84 J	1.8 J
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U	2 U	1.8 U	1.8 U	1.9 U	2.7	2 U	1.9 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	1 J	1.7 J	1.9 U	1.8 U	3.7	2 U	1.8 U	3.2	1.7 J	8.3	1.1 J	2.2
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	1.9 U	2.3	1.9 U	1.8 U	1.5 J	2 U	1.8 U	3.3	5.3	26	2.2	5.9
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	1.9 U	1.8 U	1.9 U	1.8 U	2.4	2 U	1.8 U	1.1 J	1.9 U	2.6	2 U	1.9 U
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U	2 U	1.8 U	1.8 U	1.9 U	1.9 U	2 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-5B

	Sample Name	SL-025-SA5B-SB-9.0-10.0	SL-026-SA5B-SS-0.0-0.5	SL-026-SA5B-SB-4.0-5.0	SL-026-SA5B-SB-9.0-10	SL-027-SA5B-SS-0.0-0.5	SL-027-SA5B-SB-4.0-5.0	SL-027-SA5B-SB-8.0-9.0	SL-029-SA5B-SS-0.0-0.5	SL-029-SA5B-SB-4.0-5.0	SL-029-SA5B-SB-9.0-10.0	SL-030-SA5B-SB-4.0-5.0	SL-030-SA5B-SB-9.0-10.0
	Sample Date	01/19/2011	12/08/2010	12/17/2010	12/17/2010	01/05/2011	12/15/2010	12/15/2010	12/08/2010	01/20/2011	01/20/2011	01/20/2011	01/20/2011
	Lab SDG	DE064	DE031	DE045	DE045	DE053	DE041	DE041	DE033	DE065	DE065	DE065	DE065
	Start Depth	9	0	4	9	0	4	8	0	4	9	4	9
	End Depth	10	0.5	5	10	0.5	5	9	0.5	5	10	5	10
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Chrysene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	1.9 U	1.3 J	1.9 U	1.8 U	7.9	2 U	1 J	2.6	2.2	10	2.5	9.3
bis(2-Chloroisopropyl) ether	ug/kg	190 U	180 U	190 U	180 U	190 U	200 U	180 U	180 UJ	190 U	190 U	200 U	190 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	1.9 U	1.1 J	1.9 U	1.8 U	3.5	2 U	1.8 U	1.7 J	1.4 J	7	1.6 J	3.6
2,4-Dinitrophenol	ug/kg	1100 U	2100 U	2200 U	2200 U	2300 U	2400 U	2200 U	2200 U	1100 U	1100 U	1200 U	1100 U
4,6-Dinitro-2-Methylphenol	ug/kg	560 U	540 U	560 U	550 U	580 U	600 U	550 U	550 U	570 U	560 U	590 U	570 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	1.9 U	1.8 U	1.9 U	1.8 U	1 J	2 U	1.8 U	1.8 U	1.9 U	1.3 J	2 U	1.9 U
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	1.9 U	1.5 J	1.9 U	1.8 U	2.1	2 U	1.8 U	1.9	1.5 J	8.1	1.6 J	4.1
4-Chloro-3-Methylphenol	ug/kg	190 U	180 U	190 U	180 U	190 U	200 U	180 U	180 U	190 U	190 U	200 U	190 U
N-Nitroso-Di-N-Propylamine	ug/kg	190 U	180 U	190 U	180 U	190 U	200 U	180 U	180 U	190 U	190 U	200 U	190 U
Aniline	ug/kg	560 U	540 U	560 U	550 U	580 U	600 U	550 U	550 U	570 U	560 U	590 U	570 U
Benzoic Acid	ug/kg	560 U	540 U	560 U	550 U	580 U	600 U	550 U	550 U	570 U	560 U	590 U	570 U
Hexachloroethane	ug/kg	190 U	180 U	190 U	180 U	190 U	200 U	180 U	180 U	190 U	190 U	200 U	190 U
4-Chlorophenyl Phenylether	ug/kg	190 U	180 U	190 U	180 U	190 U	200 U	180 U	180 U	190 U	190 U	200 U	190 U
Hexachlorocyclopentadiene	ug/kg	560 U	540 U	560 U	550 U	580 U	600 U	550 U	550 U	570 U	560 U	590 U	570 U
Isophorone	ug/kg	190 U	180 U	190 U	180 U	190 U	200 U	180 U	180 U	190 U	190 U	200 U	190 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U	2 U	1.8 U	1.8 U	1.9 U	2.7	2 U	1.9 U
Diethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Diethylphthalate (8270C SIM)	ug/kg	20 U	19 U	20 U	20 U	21 U	22 U	20 U	20 U	21 U	20 U	21 U	21 U
Di-n-Butylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	20 U	19 U	20 U	20 U	21 U	22 U	20 U	20 U	7 J	20 U	21 U	7.6 J
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	1.9 U	1.8 U	1.9 U	1.8 U	3.5	2 U	0.94 J	0.91 J	4.4	20	2 U	6.7
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	20 U	19 U	20 U	20 U	21 U	22 U	20 U	20 U	21 U	20 U	21 U	21 U
N-Nitrosodiphenylamine	ug/kg	190 U	180 UJ	190 U	180 U	190 U	200 U	180 U	180 U	190 U	190 U	200 U	190 U
Fluorene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Fluorene (8270C SIM)	ug/kg	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U	2 U	1.8 U	1.8 U	1.9 U	4.3	2 U	1.3 J
Carbazole	ug/kg	190 U	180 U	190 U	180 U	190 U	200 U	180 U	180 U	190 U	190 U	200 U	190 U
Pentachlorophenol	ug/kg	560 U	540 U	560 U	550 U	580 U	600 U	550 U	550 U	570 U	560 U	590 U	570 U
2,4,6-Trichlorophenol	ug/kg	190 U	180 U	190 U	180 U	190 U	200 U	180 U	180 U	190 U	190 U	200 U	190 U
2-Nitroaniline	ug/kg	190 U	180 U	190 U	180 U	190 U	200 U	180 U	180 U	190 U	190 U	200 U	190 U
2-Nitrophenol	ug/kg	190 U	180 U	190 U	180 U	190 U	200 U	180 U	180 U	190 U	190 U	200 U	190 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U	2 U	1.8 U	1.8 U	1.9 U	1.1 J	2 U	1.9 U
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene (8270C SIM)	ug/kg	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U	2 U	1.8 U	1.8 U	1.9 U	1.2 J	2 U	1.3 J
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U	2 U	1.8 U	1.8 U	1.9 U	1.4 J	2 U	0.79 J
2-Chloronaphthalene	ug/kg	190 U	180 U	190 U	180 U	190 U	200 U	180 U	180 U	190 U	190 U	200 U	190 U
3,3`-Dichlorobenzidine	ug/kg	370 U	360 UJ	370 U	360 U	390 U	400 U	370 U	360 U	380 UJ	380 UJ	390 UJ	380 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-5B

	Sample Name	SL-025-SA5B-SB-9.0-10.0	SL-026-SA5B-SS-0.0-0.5	SL-026-SA5B-SB-4.0-5.0	SL-026-SA5B-SB-9.0-10	SL-027-SA5B-SS-0.0-0.5	SL-027-SA5B-SB-4.0-5.0	SL-027-SA5B-SB-8.0-9.0	SL-029-SA5B-SS-0.0-0.5	SL-029-SA5B-SB-4.0-5.0	SL-029-SA5B-SB-9.0-10.0	SL-030-SA5B-SB-4.0-5.0	SL-030-SA5B-SB-9.0-10.0
	Sample Date	01/19/2011	12/08/2010	12/17/2010	12/17/2010	01/05/2011	12/15/2010	12/15/2010	12/08/2010	01/20/2011	01/20/2011	01/20/2011	01/20/2011
	Lab SDG	DE064	DE031	DE045	DE045	DE053	DE041	DE041	DE033	DE065	DE065	DE065	DE065
	Start Depth	9	0	4	9	0	4	8	0	4	9	4	9
	End Depth	10	0.5	5	10	0.5	5	9	0.5	5	10	5	10
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Benzidine	ug/kg	3700 U	3600 U	3700 U	3600 U	3900 U	4000 U	3700 U	3600 U	3800 U	3800 U	3900 U	3800 U
2-Methylphenol	ug/kg	190 U	180 U	190 U	180 U	190 U	200 U	180 U	180 U	190 U	190 U	200 U	190 U
2-Chlorophenol	ug/kg	190 U	180 U	190 U	180 U	190 U	200 U	180 U	180 U	190 U	190 U	200 U	190 U
2,4,5-Trichlorophenol	ug/kg	190 U	180 U	190 U	180 U	190 U	200 U	180 U	180 U	190 U	190 U	200 U	190 U
3-Nitroaniline	ug/kg	190 U	180 U	190 U	180 U	190 U	200 U	180 U	180 U	190 U	190 U	200 U	190 U
Benzyl Alcohol	ug/kg	560 U	540 U	560 U	550 U	580 U	600 U	550 U	550 U	570 U	560 U	590 U	570 U
2,6-Dinitrotoluene	ug/kg	190 U	180 U	190 U	180 U	190 U	200 U	180 U	180 U	190 U	190 U	200 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-5B

	Sample Name	SL-031-SA5B-SS-0.0-0.5	SL-031-SA5B-SB-4.0-5.0	SL-031-SA5B-SB-9.0-10.0	SL-032-SA5B-SS-0.0-0.5	SL-032-SA5B-SB-4.0-5.0	SL-032-SA5B-SB-9.0-10.0	SL-032-SA5B-SB-14.0-15.0	SL-033-SA5B-SB-4.0-5.0	SL-033-SA5B-SB-9.0-10.0	SL-033-SA5B-SB-14.0-15.0	SL-034-SA5B-SS-0.0-0.5	SL-034-SA5B-SB-4.0-5.0
	Sample Date	12/08/2010	01/19/2011	01/19/2011	12/08/2010	01/24/2011	01/24/2011	01/24/2011	01/24/2011	01/24/2011	01/24/2011	12/08/2010	01/20/2011
	Lab SDG	DE032	DE064	DE064	DE031	DE067	DE067	DE067	DE067	DE067	DE067	DE033	DE065
	Start Depth	0	4	9	0	4	9	14	4	9	14	0	4
	End Depth	0.5	5	10	0.5	5	10	15	5	10	15	0.5	5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
N-Nitrosodimethylamine (1625C)	ng/kg	--	--	--	--	42.4	53.9	20.5 J	24 J	37.3 U	48.9	--	64.2
N-Nitrosodimethylamine (8270C SIM)	ug/kg	2.7	1.9 U	1.8 U	1.8 U	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U
2,4-Dinitrotoluene	ug/kg	180 U	190 U	180 U	180 U	190 U	180 U	190 U	180 U	190 U	190 U	180 U	190 U
Nitrobenzene	ug/kg	180 U	190 U	180 U	180 U	190 U	180 U	190 U	180 U	190 U	190 U	180 U	190 U
1,4-Dichlorobenzene	ug/kg	180 U	190 U	180 U	180 U	190 U	180 U	190 U	180 U	190 U	190 U	180 U	190 U
1,2,4-Trichlorobenzene	ug/kg	180 U	190 U	180 U	180 U	190 U	180 U	190 U	180 U	190 U	190 U	180 U	190 U
1,3-Dichlorobenzene	ug/kg	180 U	190 U	180 U	180 U	190 U	180 U	190 U	180 U	190 U	190 U	180 U	190 U
Hexachlorobutadiene	ug/kg	180 U	190 U	180 U	180 U	190 U	180 U	190 U	180 U	190 U	190 U	180 U	190 U
1,2-Dichlorobenzene	ug/kg	180 U	190 U	180 U	180 U	190 U	180 U	190 U	180 U	190 U	190 U	180 U	190 U
4-Nitroaniline	ug/kg	180 U	190 U	180 U	180 U	190 U	180 U	190 U	180 U	190 U	190 U	180 U	190 U
4-Nitrophenol	ug/kg	540 U	580 U	540 U	540 U	560 U	550 U	560 U	550 U	560 U	560 U	550 U	570 U
4-Bromophenyl Phenyl Ether	ug/kg	180 U	190 U	180 U	180 U	190 U	180 U	190 U	180 U	190 U	190 U	180 U	190 U
2,4-Dimethylphenol	ug/kg	180 U	190 U	180 U	180 U	190 U	180 U	190 U	180 U	190 U	190 U	180 U	190 U
4-Methylphenol	ug/kg	180 U	190 U	180 U	180 U	190 U	180 U	190 U	180 U	190 U	190 U	180 U	190 U
4-Chloroaniline	ug/kg	180 U	190 U	180 U	180 U	190 U	180 U	190 U	180 U	190 U	190 U	180 U	190 U
3,5-Dimethylphenol	ug/kg	180 U	190 U	180 U	180 U	190 U	180 U	190 U	180 U	190 U	190 U	180 U	190 U
Phenol	ug/kg	180 U	190 U	180 U	180 U	190 U	180 U	190 U	180 U	190 U	190 U	180 U	190 U
Bis(2-Chloroethyl) ether	ug/kg	180 U	190 U	180 U	180 U	190 U	180 U	190 U	180 U	190 U	190 U	180 U	190 U
Bis(2-Chloroethoxy) methane	ug/kg	180 U	190 U	180 U	180 U	190 U	180 U	190 U	180 U	190 U	190 U	180 U	190 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	--	--	--	--	370 U	--	--	--	--	--	20 J	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	20 U	21 U	19 U	10000	--	20 U	7.9 J	20 U	7.9 J	9.4 J	--	50
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	20 U	21 U	19 U	20 U	20 U	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	190 U	180 U	190 U	180 U	190 U	190 U	180 U	190 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	1.8 U	1.9 U	1.8 U	1.8 U	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U	2.7
2,4-Dichlorophenol	ug/kg	180 U	190 U	180 U	180 U	190 UJ	180 U	190 U	180 U	190 U	190 U	180 U	190 U
1,2-Diphenylhydrazine	ug/kg	180 U	190 U	180 U	180 U	190 U	180 U	190 U	180 U	190 U	190 U	180 U	190 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	4.5	1.3 J	1.8 U	1 J	1.9 U	1.8 U	1.9 U	1.8 U	0.89 J	1.9 U	1.6 J	4.3
Dimethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Dimethylphthalate (8270C SIM)	ug/kg	20 U	21 U	19 U	20 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	190 U	180 U	190 U	180 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	2.6	1.9 U	1.8 U	0.76 J	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U	1.1 J
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	1.6 J	1.9 U	1.8 U	1.8 U	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	8.7	1.9 U	1.8 U	2.2	1.1 J	1.9	1 J	1.1 J	1.9	1.3 J	2.6	2.4
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	5.7	1.9 U	1.8 U	1 J	1.9 U	1.8 U	1.9 U	1.8 U	0.95 J	1.9 U	1.9	4.9
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	3.4	1.9 U	1.8 U	1.8 U	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U	0.96 J
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	1.8 U	1.9 U	1.8 U	1.8 U	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U	1.9 U	1.8 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-5B

	Sample Name	SL-031-SA5B-SS-0.0-0.5	SL-031-SA5B-SB-4.0-5.0	SL-031-SA5B-SB-9.0-10.0	SL-032-SA5B-SS-0.0-0.5	SL-032-SA5B-SB-4.0-5.0	SL-032-SA5B-SB-9.0-10.0	SL-032-SA5B-SB-14.0-15.0	SL-033-SA5B-SB-4.0-5.0	SL-033-SA5B-SB-9.0-10.0	SL-033-SA5B-SB-14.0-15.0	SL-034-SA5B-SS-0.0-0.5	SL-034-SA5B-SB-4.0-5.0
	Sample Date	12/08/2010	01/19/2011	01/19/2011	12/08/2010	01/24/2011	01/24/2011	01/24/2011	01/24/2011	01/24/2011	01/24/2011	12/08/2010	01/20/2011
	Lab SDG	DE032	DE064	DE064	DE031	DE067	DE067	DE067	DE067	DE067	DE067	DE033	DE065
	Start Depth	0	4	9	0	4	9	14	4	9	14	0	4
	End Depth	0.5	5	10	0.5	5	10	15	5	10	15	0.5	5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Chrysene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	5	1.9 U	1.8 U	1.1 J	0.43 J	0.46 J	1.9 U	1.8 U	0.66 J	0.44 J	1.7 J	5.2
bis(2-Chloroisopropyl) ether	ug/kg	180 U	190 U	180 U	180 U	190 U	180 U	190 U	180 U	190 U	190 U	180 UJ	190 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	5.7	1.9 U	1.8 U	1.3 J	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U	1.9 U	0.98 J	2.4
2,4-Dinitrophenol	ug/kg	2200 U	1200 U	1100 U	2200 U	1100 U	1100 U	1100 U	1100 U	1100 U	1100 U	2200 U	1100 U
4,6-Dinitro-2-Methylphenol	ug/kg	540 U	580 U	540 U	540 U	560 U	550 U	560 U	550 U	560 U	560 U	550 U	570 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	0.73 J	1.9 U	1.8 U	1.8 U	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	5.2	1.9 U	1.8 U	1.8 U	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U	3.2
4-Chloro-3-Methylphenol	ug/kg	180 U	190 U	180 U	180 U	190 U	180 U	190 U	180 U	190 U	190 U	180 U	190 U
N-Nitroso-Di-N-Propylamine	ug/kg	180 U	190 U	180 U	180 U	190 U	180 U	190 U	180 U	190 U	190 U	180 U	190 U
Aniline	ug/kg	540 U	580 U	540 U	540 U	560 U	550 U	560 U	550 U	560 U	560 U	550 U	570 U
Benzoic Acid	ug/kg	540 U	580 U	540 U	540 U	560 U	550 U	560 U	550 U	560 U	560 U	550 U	570 U
Hexachloroethane	ug/kg	180 U	190 U	180 U	180 U	190 U	180 U	190 U	180 U	190 U	190 U	180 U	190 U
4-Chlorophenyl Phenylether	ug/kg	180 U	190 U	180 U	180 U	190 U	180 U	190 U	180 U	190 U	190 U	180 U	190 U
Hexachlorocyclopentadiene	ug/kg	540 U	580 U	540 U	540 U	560 U	550 U	560 U	550 U	560 U	560 U	550 U	570 U
Isophorone	ug/kg	180 U	190 U	180 U	180 U	190 U	180 U	190 U	180 U	190 U	190 U	180 U	190 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	1.8 U	1.9 U	1.8 U	1.8 U	1.9 U	1.8 U	1.9 U	1.8 U	7.1	1.9 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	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Di-n-Butylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	20 U	21 U	19 U	6.7 J	20 U	20 U	9.2 J	20 U	20 U	20 U	20 U	7.5 J
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	1.8 U	1.9 U	1.8 U	1.8 U	1.9 U	1.1 J	1.9 U	1.8 U	1.4 J	3	0.88 J	3.2
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	20 U	21 U	19 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	8.3 J	20 U
N-Nitrosodiphenylamine	ug/kg	180 U	190 U	180 U	180 U	190 U	180 U	190 U	180 U	190 U	190 U	180 U	190 U
Fluorene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Fluorene (8270C SIM)	ug/kg	1.8 U	1.9 U	1.8 U	1.8 U	1.9 U	1.8 U	1.9 U	1.8 U	1.5 J	2.1	1.8 U	1.9 U
Carbazole	ug/kg	180 U	190 U	180 U	180 U	190 U	180 U	190 U	180 U	190 U	190 U	180 U	190 U
Pentachlorophenol	ug/kg	540 U	580 U	540 U	540 U	560 U	550 U	560 U	550 U	560 U	560 U	550 U	570 U
2,4,6-Trichlorophenol	ug/kg	180 U	190 U	180 U	180 U	190 UJ	180 U	190 U	180 U	190 U	190 U	180 U	190 U
2-Nitroaniline	ug/kg	180 U	190 U	180 U	180 U	190 U	180 U	190 U	180 U	190 U	190 U	180 U	190 U
2-Nitrophenol	ug/kg	180 U	190 U	180 U	180 U	190 UJ	180 U	190 U	180 U	190 U	190 U	180 U	190 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	1.8 U	1.9 U	1.8 U	1.8 U	1.9 U	1.8 U	1.9 U	1.8 U	2.3	1.3 J	1.8 U	1.9 U
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene (8270C SIM)	ug/kg	1.8 U	1.9 U	1.8 U	1.8 U	1.9 U	1.8 U	1.9 U	0.92 J	1.3 J	0.88 J	1.8 U	1.9 U
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	1.8 U	1.9 U	1.8 U	1.8 U	1.9 U	1.8 U	1.9 U	1.8 U	2.4	1.4 J	1.8 U	1.9 U
2-Chloronaphthalene	ug/kg	180 U	190 U	180 U	180 U	190 U	180 U	190 U	180 U	190 U	190 U	180 U	190 U
3,3`-Dichlorobenzidine	ug/kg	360 U	380 U	360 U	360 UJ	370 U	370 U	380 U	370 U	370 U	370 U	360 U	380 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-5B

	Sample Name	SL-031-SA5B-SS-0.0-0.5	SL-031-SA5B-SB-4.0-5.0	SL-031-SA5B-SB-9.0-10.0	SL-032-SA5B-SS-0.0-0.5	SL-032-SA5B-SB-4.0-5.0	SL-032-SA5B-SB-9.0-10.0	SL-032-SA5B-SB-14.0-15.0	SL-033-SA5B-SB-4.0-5.0	SL-033-SA5B-SB-9.0-10.0	SL-033-SA5B-SB-14.0-15.0	SL-034-SA5B-SS-0.0-0.5	SL-034-SA5B-SB-4.0-5.0
	Sample Date	12/08/2010	01/19/2011	01/19/2011	12/08/2010	01/24/2011	01/24/2011	01/24/2011	01/24/2011	01/24/2011	01/24/2011	12/08/2010	01/20/2011
	Lab SDG	DE032	DE064	DE064	DE031	DE067	DE067	DE067	DE067	DE067	DE067	DE033	DE065
	Start Depth	0	4	9	0	4	9	14	4	9	14	0	4
	End Depth	0.5	5	10	0.5	5	10	15	5	10	15	0.5	5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Benzidine	ug/kg	3600 U	3800 U	3600 U	3600 U	3700 U	3700 U	3800 U	3700 U	3700 U	3700 U	3600 U	3800 U
2-Methylphenol	ug/kg	180 U	190 U	180 U	180 U	190 U	180 U	190 U	180 U	190 U	190 U	180 U	190 U
2-Chlorophenol	ug/kg	180 U	190 U	180 U	180 U	190 U	180 U	190 U	180 U	190 U	190 U	180 U	190 U
2,4,5-Trichlorophenol	ug/kg	180 U	190 U	180 U	180 U	190 UJ	180 U	190 U	180 U	190 U	190 U	180 U	190 U
3-Nitroaniline	ug/kg	180 U	190 U	180 U	180 U	190 U	180 U	190 U	180 U	190 U	190 U	180 U	190 U
Benzyl Alcohol	ug/kg	540 U	580 U	540 U	540 U	560 U	550 U	560 U	550 U	560 U	560 U	550 U	570 U
2,6-Dinitrotoluene	ug/kg	180 U	190 U	180 U	180 U	190 U	180 U	190 U	180 U	190 U	190 U	180 U	190 U

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Appendix A6
Semivolatile Organics - Validated Data
HSA-5B

	Sample Name	SL-034-SA5B-SB-9.0-10.0	SL-035-SA5B-SS-0.0-0.5	SL-035-SA5B-SB-4.0-5.0	SL-035-SA5B-SB-7.0-8.0	SL-036-SA5B-SS-0.0-0.5	SL-036-SA5B-SB-4.0-5.0	SL-037-SA5B-SB-3.5-4.5	SL-038-SA5B-SS-0.0-0.5	SL-039-SA5B-SS-0.0-0.5	SL-039-SA5B-SB-4.0-5.0	SL-039-SA5B-SB-9.0-10.0	SL-040-SA5B-SB-1.5-2.5
	Sample Date	01/20/2011	12/08/2010	01/20/2011	01/20/2011	12/08/2010	01/20/2011	01/20/2011	12/08/2010	12/08/2010	01/17/2011	01/17/2011	12/16/2010
	Lab SDG	DE065	DE033	DE065	DE065	DE033	DE065	DE065	DE031	DE031	DE062	DE062	DE043
	Start Depth	9	0	4	7	0	4	3.5	0	0	4	9	1.5
	End Depth	10	0.5	5	8	0.5	5	4.5	0.5	0.5	5	10	2.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
N-Nitrosodimethylamine (1625C)	ng/kg	67.2	--	198	224	--	--	46.6	--	--	--	--	37.5
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	1.9 U	2 U	1.9 U
2,4-Dinitrotoluene	ug/kg	180 U	180 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	190 U	200 U	190 U
Nitrobenzene	ug/kg	180 U	180 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	190 U	200 U	190 U
1,4-Dichlorobenzene	ug/kg	180 U	180 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	190 U	200 U	190 U
1,2,4-Trichlorobenzene	ug/kg	180 U	180 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	190 U	200 U	190 U
1,3-Dichlorobenzene	ug/kg	180 U	180 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	190 U	200 U	190 U
Hexachlorobutadiene	ug/kg	180 U	180 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	190 U	200 U	190 U
1,2-Dichlorobenzene	ug/kg	180 U	180 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	190 U	200 U	190 U
4-Nitroaniline	ug/kg	180 U	180 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	190 U	200 U	190 U
4-Nitrophenol	ug/kg	550 U	550 U	550 U	540 U	550 U	550 U	560 U	550 U	550 U	560 U	590 U	560 U
4-Bromophenyl Phenyl Ether	ug/kg	180 U	180 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	190 U	200 U	190 U
2,4-Dimethylphenol	ug/kg	180 U	180 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	190 U	200 U	190 U
4-Methylphenol	ug/kg	180 U	180 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	190 U	200 U	190 U
4-Chloroaniline	ug/kg	180 U	180 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	190 U	200 U	190 U
3,5-Dimethylphenol	ug/kg	180 U	180 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	190 U	200 U	190 U
Phenol	ug/kg	180 U	180 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	190 U	200 U	190 U
Bis(2-Chloroethyl) ether	ug/kg	180 U	180 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	190 U	200 U	190 U
Bis(2-Chloroethoxy) methane	ug/kg	180 U	180 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	190 U	200 U	190 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	55 J	21 J	--	--	--	--	--	--	19 J	--	--	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	--	--	110	23	20 U	43	49	14 J	--	20 U	21 U	8.1 J
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	20 U	20 U	20 U	19 U	7.3 J	16 J	20 U	20 U	20 U	20 U	21 U	20 U
Hexachlorobenzene	ug/kg	180 U	180 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	190 U	200 U	190 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	1.5 J	1.8 U	1.5 J	0.65 J	1.8 U	1.8 U	0.39 J	1.8 U	1.8 U	1.9 U	2 U	1.9 U
2,4-Dichlorophenol	ug/kg	180 U	180 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	190 U	200 U	190 U
1,2-Diphenylhydrazine	ug/kg	180 U	180 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	190 U	200 U	190 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	7.4	1.2 J	4.4	5.7	2	3.7	4.1	1.6 J	1.8 U	1.9 U	2 U	1.9 U
Dimethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Dimethylphthalate (8270C SIM)	ug/kg	20 U	20 U	20 U	19 U	20 U	53	20 U	20 U	20 U	20 U	21 U	20 U
Dibenzofuran	ug/kg	180 U	180 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	190 U	200 U	190 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--	--	44 J	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	1 J	1.8 U	1.1 J	1.6 J	1.8 U	4.3	1.4 J	--	1.8 U	1.9 U	2 U	1.9 U
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	67 J	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	1.8 U	1.8 U	1.8 U	0.85 J	1.8 U	1.8 U	0.8 J	--	1.8 U	1.9 U	2 U	1.9 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	180	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	3.5	1.4 J	2.6	4.2	2.9	6.8	4.8	--	0.8 J	2.7	2 U	1.9 U
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	24 J	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	6.6	1.5 J	5.8	7.6	2.2	2.2	4	--	1.8 U	1.9 U	2 U	1.9 U
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	1.5 J	1.8 U	0.93 J	1.5 J	0.93 J	1.8 U	1.8 J	0.82 J	1.8 U	1.9 U	2 U	1.9 U
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	1.9 U	2 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-5B

	Sample Name	SL-034-SA5B-SB-9.0-10.0	SL-035-SA5B-SS-0.0-0.5	SL-035-SA5B-SB-4.0-5.0	SL-035-SA5B-SB-7.0-8.0	SL-036-SA5B-SS-0.0-0.5	SL-036-SA5B-SB-4.0-5.0	SL-037-SA5B-SB-3.5-4.5	SL-038-SA5B-SS-0.0-0.5	SL-039-SA5B-SS-0.0-0.5	SL-039-SA5B-SB-4.0-5.0	SL-039-SA5B-SB-9.0-10.0	SL-040-SA5B-SB-1.5-2.5
	Sample Date	01/20/2011	12/08/2010	01/20/2011	01/20/2011	12/08/2010	01/20/2011	01/20/2011	12/08/2010	12/08/2010	01/17/2011	01/17/2011	12/16/2010
	Lab SDG	DE065	DE033	DE065	DE065	DE033	DE065	DE065	DE031	DE031	DE062	DE062	DE043
	Start Depth	9	0	4	7	0	4	3.5	0	0	4	9	1.5
	End Depth	10	0.5	5	8	0.5	5	4.5	0.5	0.5	5	10	2.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Chrysene (8270C)	ug/kg	--	--	--	--	--	--	--	140 J	--	--	--	--
Chrysene (8270C SIM)	ug/kg	7	1.3 J	4.1	5.9	2.1	16	3.6	--	0.53 J	1.9 U	2 U	1.9 U
bis(2-Chloroisopropyl) ether	ug/kg	180 U	180 UJ	180 U	180 U	180 UJ	180 U	190 U	180 U	180 U	190 U	200 U	190 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	71 J	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	3.3	1.8 U	1.9	4.7	1.1 J	9.1	3.6	--	1.8 U	1.9 U	2 U	1.9 U
2,4-Dinitrophenol	ug/kg	1100 U	2200 U	1100 U	1100 U	2200 U	1100 U	1100 U	2200 U	2200 U	2200 U	2400 U	2200 U
4,6-Dinitro-2-Methylphenol	ug/kg	550 U	550 U	550 U	540 U	550 U	550 U	560 U	550 U	550 U	560 U	590 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	1.6 J	1.9 U	1.8 U	1.8 U	1.9 U	2 U	1.9 U
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	4.3	1.8 U	2.5	3.9	2.1	2.7	3.8	0.9 J	1.8 U	1.9 U	2 U	1.9 U
4-Chloro-3-Methylphenol	ug/kg	180 U	180 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	190 U	200 U	190 U
N-Nitroso-Di-N-Propylamine	ug/kg	180 U	180 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	190 U	200 U	190 U
Aniline	ug/kg	550 U	550 U	550 U	540 U	550 U	550 U	560 U	550 U	550 U	560 U	590 U	560 U
Benzoic Acid	ug/kg	550 U	550 U	550 U	540 U	550 U	550 U	560 U	550 U	550 U	560 U	590 U	560 U
Hexachloroethane	ug/kg	180 U	180 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	190 U	200 U	190 U
4-Chlorophenyl Phenylether	ug/kg	180 U	180 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	190 U	200 U	190 U
Hexachlorocyclopentadiene	ug/kg	550 U	550 U	550 U	540 U	550 U	550 U	560 U	550 U	550 U	560 U	590 U	560 U
Isophorone	ug/kg	180 U	180 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	190 U	200 U	190 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	0.82 J	1.8 U	0.77 J	1.8 U	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	1.9 U	2 U	1.9 U
Diethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Diethylphthalate (8270C SIM)	ug/kg	20 U	20 U	20 U	19 U	20 U	20 U	20 U	20 U	20 U	20 U	21 U	20 UJ
Di-n-Butylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	7.6 J	7.5 J	15 J	19 U	20 U	20 U	6.7 J	8.3 J	6.6 J	20 U	21 U	20 U
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	4.9	0.9 J	5.7	1.4 J	1.1 J	1.2 J	0.83 J	0.81 J	1.8 U	1.9 U	2 U	1.9 U
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	20 U	20 U	20 U	19 U	7.9 J	20 U	20 U	20 U	20 U	20 U	21 U	20 U
N-Nitrosodiphenylamine	ug/kg	180 U	180 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	190 U	200 U	190 U
Fluorene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Fluorene (8270C SIM)	ug/kg	0.88 J	1.8 U	0.85 J	1.8 U	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	1.9 U	2 U	1.9 U
Carbazole	ug/kg	180 U	180 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	190 U	200 U	190 U
Pentachlorophenol	ug/kg	550 U	550 U	550 U	540 U	550 U	550 U	560 U	550 U	550 U	560 U	590 U	560 U
2,4,6-Trichlorophenol	ug/kg	180 U	180 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	190 U	200 U	190 U
2-Nitroaniline	ug/kg	180 U	180 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	190 U	200 U	190 U
2-Nitrophenol	ug/kg	180 U	180 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	190 U	200 U	190 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	1.3 J	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	1.9 U	2 U	1.9 U
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene (8270C SIM)	ug/kg	2.8	1.8 U	1.1 J	0.79 J	1.8 U	0.76 J	1.9 U	1.8 U	1.8 U	1.9 U	2 U	1.9 U
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	1.8	1.8 U	0.9 J	0.76 J	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	1.9 U	2 U	1.9 U
2-Chloronaphthalene	ug/kg	180 U	180 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	190 U	200 U	190 U
3,3`-Dichlorobenzidine	ug/kg	370 UJ	370 U	370 UJ	360 UJ	370 U	370 UJ	370 UJ	370 UJ	360 UJ	370 UJ	390 UJ	370 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-5B

	Sample Name	SL-034-SA5B-SB-9.0-10.0	SL-035-SA5B-SS-0.0-0.5	SL-035-SA5B-SB-4.0-5.0	SL-035-SA5B-SB-7.0-8.0	SL-036-SA5B-SS-0.0-0.5	SL-036-SA5B-SB-4.0-5.0	SL-037-SA5B-SB-3.5-4.5	SL-038-SA5B-SS-0.0-0.5	SL-039-SA5B-SS-0.0-0.5	SL-039-SA5B-SB-4.0-5.0	SL-039-SA5B-SB-9.0-10.0	SL-040-SA5B-SB-1.5-2.5
	Sample Date	01/20/2011	12/08/2010	01/20/2011	01/20/2011	12/08/2010	01/20/2011	01/20/2011	12/08/2010	12/08/2010	01/17/2011	01/17/2011	12/16/2010
	Lab SDG	DE065	DE033	DE065	DE065	DE033	DE065	DE065	DE031	DE031	DE062	DE062	DE043
	Start Depth	9	0	4	7	0	4	3.5	0	0	4	9	1.5
	End Depth	10	0.5	5	8	0.5	5	4.5	0.5	0.5	5	10	2.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Benzidine	ug/kg	3700 U	3700 U	3700 U	3600 U	3700 U	3700 U	3700 U	3700 U	3600 U	3700 U	3900 U	3700 U
2-Methylphenol	ug/kg	180 U	180 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	190 U	200 U	190 U
2-Chlorophenol	ug/kg	180 U	180 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	190 U	200 U	190 U
2,4,5-Trichlorophenol	ug/kg	180 U	180 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	190 U	200 U	190 U
3-Nitroaniline	ug/kg	180 U	180 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	190 U	200 U	190 U
Benzyl Alcohol	ug/kg	550 U	550 U	550 U	540 U	550 U	550 U	560 U	550 U	550 U	560 U	590 U	560 U
2,6-Dinitrotoluene	ug/kg	180 U	180 U	180 U	180 U	180 U	180 U	190 U	180 U	180 U	190 U	200 U	190 U

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

	Sample Name	SL-040-SA5B-SB-9.0-10.0	SL-041-SA5B-SB-1.5-2.5	SL-041-SA5B-SB-8.0-9.0	SL-042-SA5B-SB-2.5-3.5	SL-042-SA5B-SB-8.0-9.0	SL-043-SA5B-SB-2.5-3.5	SL-044-SA5B-SB-4.0-5.0	SL-044-SA5B-SB-7.0-8.0	SL-045-SA5B-SB-3.0-4.0	SL-046-SA5B-SB-4.0-5.0	SL-046-SA5B-SB-9.0-10.0	SL-047-SA5B-SB-4.0-5.0
	Sample Date	12/16/2010	12/16/2010	12/16/2010	12/16/2010	12/16/2010	12/16/2010	12/20/2010	12/20/2010	12/20/2010	12/21/2010	12/21/2010	12/21/2010
	Lab SDG	DE043	DE043	DE043	DE043	DE043	DE043	DE048	DE048	DE048	DE049	DE049	DE049
	Start Depth	9	1.5	8	2.5	8	2.5	4	7	3	4	9	4
	End Depth	10	2.5	9	3.5	9	3.5	5	8	4	5	10	5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
N-Nitrosodimethylamine (1625C)	ng/kg	77.6	130	185 U	186 U	188 U	45.6	37.7 UJ	37.9 U	36.9 U	--	--	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	2 U	2 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U	1.8 U	1.9 U	1.8 U
2,4-Dinitrotoluene	ug/kg	200 U	200 U	180 U	190 U	190 U	180 U	190 U	190 U	180 U	180 UJ	190 U	180 U
Nitrobenzene	ug/kg	200 U	200 U	180 U	190 U	190 U	180 U	190 U	190 U	180 U	180 UJ	190 U	180 U
1,4-Dichlorobenzene	ug/kg	200 U	200 U	180 U	190 U	190 U	180 U	190 U	190 U	180 U	180 UJ	190 U	180 U
1,2,4-Trichlorobenzene	ug/kg	200 U	200 U	180 U	190 U	190 U	180 U	190 U	190 U	180 U	180 UJ	190 U	180 U
1,3-Dichlorobenzene	ug/kg	200 U	200 U	180 U	190 U	190 U	180 U	190 U	190 U	180 U	180 UJ	190 U	180 U
Hexachlorobutadiene	ug/kg	200 U	200 U	180 U	190 U	190 U	180 U	190 U	190 U	180 U	180 UJ	190 U	180 U
1,2-Dichlorobenzene	ug/kg	200 U	200 U	180 U	190 U	190 U	180 U	190 U	190 U	180 U	180 UJ	190 U	180 U
4-Nitroaniline	ug/kg	200 U	200 U	180 U	190 U	190 U	180 U	190 U	190 U	180 U	180 UJ	190 U	180 U
4-Nitrophenol	ug/kg	590 U	600 U	550 U	560 U	560 U	550 U	570 U	570 U	550 U	540 UJ	570 U	550 U
4-Bromophenyl Phenyl Ether	ug/kg	200 U	200 U	180 U	190 U	190 U	180 U	190 U	190 U	180 U	180 UJ	190 U	180 U
2,4-Dimethylphenol	ug/kg	200 U	200 U	180 U	190 U	190 U	180 U	190 U	190 U	180 U	180 UJ	190 U	180 U
4-Methylphenol	ug/kg	200 U	200 U	180 U	190 U	190 U	180 U	190 U	190 U	180 U	180 UJ	190 U	180 U
4-Chloroaniline	ug/kg	200 U	200 U	180 U	190 U	190 U	180 U	190 U	190 U	180 U	180 U	190 U	180 U
3,5-Dimethylphenol	ug/kg	200 U	200 U	180 U	190 U	190 U	180 U	190 U	190 U	180 U	180 UJ	190 U	180 U
Phenol	ug/kg	200 U	200 U	180 U	190 U	190 U	180 U	190 U	190 U	180 U	180 UJ	190 U	180 U
Bis(2-Chloroethyl) ether	ug/kg	200 U	200 U	180 U	190 U	190 U	180 U	190 U	190 U	180 U	180 UJ	190 U	180 U
Bis(2-Chloroethoxy) methane	ug/kg	200 U	200 U	180 U	190 U	190 U	180 U	190 U	190 U	180 U	180 UJ	190 U	180 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	--	--	--	22 J	--	--	--	24 J	--	29 J	--	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	21 U	7.3 J	8.6 J	--	20 U	20 U	20 U	--	20 U	--	20 U	20 U
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	21 U	21 U	20 U	7.2 J	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Hexachlorobenzene	ug/kg	200 U	200 U	180 U	190 U	190 U	180 U	190 U	190 U	180 U	180 UJ	190 U	180 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	0.49 J	0.5 J	3.2	1 J	1.9 U	1.8 U	1.9 U	1.5 J	1.8 U	1.8 U	1.9 U	1.8 U
2,4-Dichlorophenol	ug/kg	200 U	200 U	180 U	190 U	190 U	180 U	190 U	190 U	180 U	180 UJ	190 U	180 U
1,2-Diphenylhydrazine	ug/kg	200 U	200 U	180 U	190 U	190 U	180 U	190 U	190 U	180 U	180 UJ	190 U	180 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	1.5 J	2 U	1.3 J	2.9	0.9 J	2.4	1.9 U	28	1.8 U	1.8 U	1.9 U	1.8 U
Dimethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Dimethylphthalate (8270C SIM)	ug/kg	21 U	21 U	14 J	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Dibenzofuran	ug/kg	200 U	200 U	180 U	190 U	190 U	180 U	190 U	190 U	180 U	180 UJ	190 U	180 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	1 J	2 U	1.8 U	1 J	1.8 J	1.8 U	1.9 U	97	1.8 U	1.8 UJ	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	2 U	2 U	1.8 U	0.93 J	1.9 U	1.8 U	1.9 U	100	1.8 U	1.8 UJ	1.9 U	1.8 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	2.2	2 U	1 J	3.4	3.1	2.5	1.9 U	53	1.8 U	1.8 UJ	1.9 U	1.8 U
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	1.1 J	2 U	1.4 J	2.1	1.9 U	2.8	1.9 U	23	1.8 U	1.8 UJ	1.9 UJ	1.8 UJ
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	2 U	2 U	1.8 U	1.9 U	1.9 U	1.2 J	1.9 U	15	1.8 U	1.8 UJ	1.9 U	1.8 U
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	2 U	2 U	1.8 U	0.99 J	1.9 U	1.8 U	1.9 U	0.49 J	1.8 U	1.8 U	1.9 U	1.8 U

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Appendix A6
Semivolatile Organics - Validated Data
HSA-5B

		Sample Name	SL-040-SA5B-SB-9.0-10.0	SL-041-SA5B-SB-1.5-2.5	SL-041-SA5B-SB-8.0-9.0	SL-042-SA5B-SB-2.5-3.5	SL-042-SA5B-SB-8.0-9.0	SL-043-SA5B-SB-2.5-3.5	SL-044-SA5B-SB-4.0-5.0	SL-044-SA5B-SB-7.0-8.0	SL-045-SA5B-SB-3.0-4.0	SL-046-SA5B-SB-4.0-5.0	SL-046-SA5B-SB-9.0-10.0	SL-047-SA5B-SB-4.0-5.0
		Sample Date	12/16/2010	12/16/2010	12/16/2010	12/16/2010	12/16/2010	12/16/2010	12/20/2010	12/20/2010	12/20/2010	12/21/2010	12/21/2010	12/21/2010
		Lab SDG	DE043	DE043	DE043	DE043	DE043	DE043	DE048	DE048	DE048	DE049	DE049	DE049
		Start Depth	9	1.5	8	2.5	8	2.5	4	7	3	4	9	4
		End Depth	10	2.5	9	3.5	9	3.5	5	8	4	5	10	5
Chemical Name	Unit		Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Chrysene (8270C)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg		5.8	0.82 J	1.1 J	7.3	4	2.1	1.9 U	14	1.8 U	1.8 UJ	1.9 U	1.8 U
bis(2-Chloroisopropyl) ether	ug/kg		200 U	200 U	180 U	190 U	190 U	180 U	190 U	190 U	180 U	180 UJ	190 U	180 U
Benzo(a)pyrene (8270C)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg		0.9 J	2 U	1.8 U	1.1 J	1.5 J	1.8	1.9 U	47	1.8 U	1.8 UJ	1.9 U	1.8 U
2,4-Dinitrophenol	ug/kg		2400 U	2400 U	2200 U	2200 U	2300 U	2200 U	2300 U	2300 U	2200 U	2200 R	2300 U	2200 U
4,6-Dinitro-2-Methylphenol	ug/kg		590 U	600 U	550 U	560 U	560 U	550 U	570 U	570 U	550 U	540 UJ	570 U	550 U
Dibenzo(a,h)anthracene (8270C)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg		2 U	2 U	1.8 U	0.82 J	0.88 J	1.8 U	1.9 U	6	1.8 U	1.8 U	1.9 U	1.8 U
Benzo(a)anthracene (8270C)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg		2 U	2 U	1.8 U	2.3	1.9 U	1.9	1.9 U	5.6	1.8 U	1.8 UJ	1.9 U	1.8 U
4-Chloro-3-Methylphenol	ug/kg		200 U	200 U	180 U	190 U	190 U	180 U	190 U	190 U	180 U	180 UJ	190 U	180 U
N-Nitroso-Di-N-Propylamine	ug/kg		200 U	200 U	180 U	190 U	190 U	180 U	190 U	190 U	180 U	180 UJ	190 U	180 U
Aniline	ug/kg		590 U	600 U	550 U	560 U	560 U	550 U	570 U	570 U	550 U	540 U	570 U	550 U
Benzoic Acid	ug/kg		590 U	600 U	550 U	560 U	560 U	550 U	570 U	570 U	550 U	540 U	570 U	550 U
Hexachloroethane	ug/kg		200 U	200 U	180 U	190 U	190 U	180 U	190 U	190 U	180 U	180 UJ	190 U	180 U
4-Chlorophenyl Phenylether	ug/kg		200 U	200 U	180 U	190 U	190 U	180 U	190 U	190 U	180 U	180 UJ	190 U	180 U
Hexachlorocyclopentadiene	ug/kg		590 U	600 U	550 U	560 U	560 U	550 U	570 U	570 U	550 U	540 U	570 U	550 U
Isophorone	ug/kg		200 U	200 U	180 U	190 U	190 U	180 U	190 U	190 U	180 U	180 UJ	190 U	180 U
Acenaphthene (8270C)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg		2 U	2 U	1.7 J	1.2 J	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U	1.8 U	1.9 U	1.8 U
Diethylphthalate (8270C)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--
Diethylphthalate (8270C SIM)	ug/kg		21 U	21 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Di-n-Butylphthalate (8270C)	ug/kg		--	--	--	--	--	--	--	26 J	--	--	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg		21 U	21 U	20 U	20 U	20 U	20 U	20 U	--	20 U	20 U	20 U	20 U
Phenanthrene (8270C)	ug/kg		--	--	41 J	--	--	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg		1.5 J	1.1 J	--	5.7	1.9 U	1.2 J	1.9 U	13	1.8 U	1.8 U	1.9 U	1.8 U
Butylbenzylphthalate (8270C)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg		21 U	21 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
N-Nitrosodiphenylamine	ug/kg		200 U	200 U	180 U	190 U	190 U	180 U	190 U	190 U	180 U	180 UJ	190 U	180 U
Fluorene (8270C)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--
Fluorene (8270C SIM)	ug/kg		2 U	2 U	4	2.9	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U	1.8 U	1.9 U	1.8 U
Carbazole	ug/kg		200 U	200 U	180 U	190 U	190 U	180 U	190 U	190 U	180 U	180 UJ	190 U	180 U
Pentachlorophenol	ug/kg		590 U	600 U	550 U	560 U	560 U	550 U	570 U	570 U	550 U	540 U	570 U	550 U
2,4,6-Trichlorophenol	ug/kg		200 U	200 U	180 U	190 U	190 U	180 U	190 U	190 U	180 U	180 UJ	190 U	180 U
2-Nitroaniline	ug/kg		200 U	200 U	180 U	190 U	190 U	180 U	190 U	190 U	180 U	180 UJ	190 U	180 U
2-Nitrophenol	ug/kg		200 U	200 U	180 U	190 U	190 U	180 U	190 U	190 U	180 U	180 UJ	190 U	180 U
1-Methylnaphthalene (8270C)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg		2 U	2 U	7.2	1.8 J	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U	1.8 U	1.9 U	1.8 U
Naphthalene (8270C)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene (8270C SIM)	ug/kg		1.4 J	2.3	2.9	1.3 J	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U	2	1.3 J	1.4 J
2-Methylnaphthalene (8270C)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg		0.99 J	2 U	11	2	1.9 U	1.8 U	1.9 U	0.84 J	1.8 U	1.8 U	1.9 U	1.8 U
2-Chloronaphthalene	ug/kg		200 U	200 U	180 U	190 U	190 U	180 U	190 U	190 U	180 U	180 UJ	190 U	180 U
3,3`-Dichlorobenzidine	ug/kg		390 U	400 U	370 U	370 U	380 U	370 U	380 UJ	380 UJ	370 UJ	360 U	380 U	370 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-5B

	Sample Name	SL-040-SA5B-SB-9.0-10.0	SL-041-SA5B-SB-1.5-2.5	SL-041-SA5B-SB-8.0-9.0	SL-042-SA5B-SB-2.5-3.5	SL-042-SA5B-SB-8.0-9.0	SL-043-SA5B-SB-2.5-3.5	SL-044-SA5B-SB-4.0-5.0	SL-044-SA5B-SB-7.0-8.0	SL-045-SA5B-SB-3.0-4.0	SL-046-SA5B-SB-4.0-5.0	SL-046-SA5B-SB-9.0-10.0	SL-047-SA5B-SB-4.0-5.0
	Sample Date	12/16/2010	12/16/2010	12/16/2010	12/16/2010	12/16/2010	12/16/2010	12/20/2010	12/20/2010	12/20/2010	12/21/2010	12/21/2010	12/21/2010
	Lab SDG	DE043	DE043	DE043	DE043	DE043	DE043	DE048	DE048	DE048	DE049	DE049	DE049
	Start Depth	9	1.5	8	2.5	8	2.5	4	7	3	4	9	4
	End Depth	10	2.5	9	3.5	9	3.5	5	8	4	5	10	5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Benzidine	ug/kg	3900 U	4000 U	3700 U	3700 U	3800 U	3700 U	3800 UJ	3800 U	3700 U	3600 UJ	3800 U	3700 U
2-Methylphenol	ug/kg	200 U	200 U	180 U	190 U	190 U	180 U	190 U	190 U	180 U	180 UJ	190 U	180 U
2-Chlorophenol	ug/kg	200 U	200 U	180 U	190 U	190 U	180 U	190 U	190 U	180 U	180 UJ	190 U	180 U
2,4,5-Trichlorophenol	ug/kg	200 U	200 U	180 U	190 U	190 U	180 U	190 U	190 U	180 U	180 UJ	190 U	180 U
3-Nitroaniline	ug/kg	200 U	200 U	180 U	190 U	190 U	180 U	190 U	190 U	180 U	180 UJ	190 U	180 U
Benzyl Alcohol	ug/kg	590 U	600 U	550 U	560 U	560 U	550 U	570 U	570 U	550 U	540 UJ	570 U	550 U
2,6-Dinitrotoluene	ug/kg	200 U	200 U	180 U	190 U	190 U	180 U	190 U	190 U	180 U	180 UJ	190 U	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-5B

	Sample Name	SL-048-SA5B-SS-0.0-0.5	SL-048-SA5B-SB-4.0-5.0	SL-048-SA5B-SB-9.0-10.0	SL-049-SA5B-SS-0.0-0.5	SL-049-SA5B-SB-4.0-5.0	SL-049-SA5B-SB-9.0-10.0	SL-050-SA5B-SB-3.0-4.0	SL-051-SA5B-SS-0.0-0.5	SL-051-SA5B-SB-3.0-4.0	SL-053-SA5B-SB-1.8-2.8	SL-054-SA5B-SS-0.0-0.5	SL-054-SA5B-SB-3.0-4.0
	Sample Date	12/10/2010	01/19/2011	01/19/2011	02/11/2011	01/19/2011	01/19/2011	01/06/2011	12/10/2010	01/06/2011	01/10/2011	12/14/2010	01/10/2011
	Lab SDG	DE034	DE064	DE064	DE081	DE064	DE064	DE054	DE034	DE054	DE056	DE038	DE056
	Start Depth	0	4	9	0	4	9	3	0	3	1.8	0	3
	End Depth	0.5	5	10	0.5	5	10	4	0.5	4	2.8	0.5	4
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
N-Nitrosodimethylamine (1625C)	ng/kg	--	--	--	--	36.3 U	34.5 U	20.5 J	--	21 J	--	--	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.9 U	1.9 U	1.8 U	1.7 U	1.8 U	1.7 U	1.8 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U
2,4-Dinitrotoluene	ug/kg	190 U	190 U	180 U	170 U	180 U	170 U	180 U	180 U	190 U	190 U	180 U	190 U
Nitrobenzene	ug/kg	190 U	190 U	180 U	170 U	180 U	170 U	180 U	180 U	190 U	190 U	180 U	190 U
1,4-Dichlorobenzene	ug/kg	190 U	190 U	180 U	170 U	180 U	170 U	180 U	180 U	190 U	190 U	180 U	190 U
1,2,4-Trichlorobenzene	ug/kg	190 U	190 U	180 U	170 U	180 U	170 U	180 U	180 U	190 U	190 U	180 U	190 U
1,3-Dichlorobenzene	ug/kg	190 U	190 U	180 U	170 U	180 U	170 U	180 U	180 U	190 U	190 U	180 U	190 U
Hexachlorobutadiene	ug/kg	190 U	190 U	180 U	170 U	180 U	170 U	180 U	180 U	190 U	190 U	180 U	190 U
1,2-Dichlorobenzene	ug/kg	190 U	190 U	180 U	170 U	180 U	170 U	180 U	180 U	190 U	190 U	180 U	190 U
4-Nitroaniline	ug/kg	190 U	190 U	180 U	170 U	180 U	170 U	180 U	180 U	190 U	190 U	180 U	190 U
4-Nitrophenol	ug/kg	560 U	560 U	540 U	510 U	540 U	520 U	550 U	550 U	580 U	560 U	530 U	580 U
4-Bromophenyl Phenyl Ether	ug/kg	190 U	190 U	180 U	170 U	180 U	170 U	180 U	180 U	190 U	190 U	180 U	190 U
2,4-Dimethylphenol	ug/kg	190 U	190 U	180 U	170 U	180 U	170 U	180 U	180 U	190 U	190 U	180 U	190 U
4-Methylphenol	ug/kg	190 U	190 U	180 U	170 U	180 U	170 U	180 U	180 U	190 U	190 U	180 U	190 U
4-Chloroaniline	ug/kg	190 U	190 U	180 U	170 U	180 U	170 U	180 U	180 U	190 U	190 U	180 U	190 U
3,5-Dimethylphenol	ug/kg	190 U	190 U	180 U	170 U	180 U	170 U	180 U	180 U	190 U	190 U	180 U	190 U
Phenol	ug/kg	190 U	190 U	180 U	170 U	180 U	170 U	180 U	180 U	190 U	190 U	180 U	190 U
Bis(2-Chloroethyl) ether	ug/kg	190 U	190 U	180 U	170 U	180 U	170 U	180 U	180 U	190 U	190 U	180 U	190 U
Bis(2-Chloroethoxy) methane	ug/kg	190 U	190 U	180 U	170 U	180 U	170 U	180 U	180 U	190 U	190 U	180 U	190 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	360 U	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	13 J	20 U	19 U	19 U	8.6 J	19 U	7 J	23	21 U	8.5 J	--	21 U
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	14 J	20 U	19 U	19 U	20 U	19 U	20 U	19 J	21 U	20 U	6.5 J	21 U
Hexachlorobenzene	ug/kg	190 U	190 U	180 U	170 U	180 U	170 U	180 U	180 U	190 U	190 U	180 U	190 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	30 J	--
Anthracene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.8 U	1.7 U	1.8 U	1.7 U	1.8 U	1.8 U	1.9 U	1.9 U	--	1.9 U
2,4-Dichlorophenol	ug/kg	190 U	190 U	180 U	170 U	180 U	170 U	180 U	180 U	190 U	190 U	180 U	190 U
1,2-Diphenylhydrazine	ug/kg	190 U	190 U	180 U	170 U	180 U	170 U	180 U	180 U	190 U	190 U	180 U	190 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	230	--
Pyrene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.8 U	1.7 U	1.8 U	1.7 U	1.8 U	0.95 J	1.9 U	2.4	--	1.9 U
Dimethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Dimethylphthalate (8270C SIM)	ug/kg	20 U	20 U	19 U	19 U	20 U	19 U	20 U	20 U	21 U	20 U	19 U	21 U
Dibenzofuran	ug/kg	190 U	190 U	180 U	170 U	180 U	170 U	180 U	180 U	190 U	190 U	180 U	190 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	31 J	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.8 U	1.7 U	1.8 U	1.7 U	1.8 U	1.8 U	1.9 U	2.3	--	1.9 U
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	32 J	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.8 U	1.7 U	1.8 U	1.7 U	1.8 U	1.8 U	1.9 U	0.84 J	--	1.9 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	74 J	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.3 J	1.7 U	0.87 J	1.7 U	1.8 U	1.1 J	1.9 U	3.1	--	0.95 J
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	200	--
Fluoranthene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.8 U	1.7 U	1.8 U	1.7 U	1.8 U	0.97 J	1.9 U	2.4	--	1.9 U
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	32 J	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.8 U	1.7 U	1.8 U	1.7 U	1.8 U	1.8 U	1.9 U	1.1 J	--	1.9 U
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.8 U	1.7 U	1.8 U	1.7 U	1.8 U	1.8 U	1.9 U	1.9 U	1.8 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-5B

	Sample Name	SL-048-SA5B-SS-0.0-0.5	SL-048-SA5B-SB-4.0-5.0	SL-048-SA5B-SB-9.0-10.0	SL-049-SA5B-SS-0.0-0.5	SL-049-SA5B-SB-4.0-5.0	SL-049-SA5B-SB-9.0-10.0	SL-050-SA5B-SB-3.0-4.0	SL-051-SA5B-SS-0.0-0.5	SL-051-SA5B-SB-3.0-4.0	SL-053-SA5B-SB-1.8-2.8	SL-054-SA5B-SS-0.0-0.5	SL-054-SA5B-SB-3.0-4.0
	Sample Date	12/10/2010	01/19/2011	01/19/2011	02/11/2011	01/19/2011	01/19/2011	01/06/2011	12/10/2010	01/06/2011	01/10/2011	12/14/2010	01/10/2011
	Lab SDG	DE034	DE064	DE064	DE081	DE064	DE064	DE054	DE034	DE054	DE056	DE038	DE056
	Start Depth	0	4	9	0	4	9	3	0	3	1.8	0	3
	End Depth	0.5	5	10	0.5	5	10	4	0.5	4	2.8	0.5	4
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Chrysene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	130 J	--
Chrysene (8270C SIM)	ug/kg	1.9 U	0.43 J	1.8 U	1.7 U	0.52 J	1.7 U	1.8 U	0.92 J	1.9 U	4.3	--	1.9 U
bis(2-Chloroisopropyl) ether	ug/kg	190 U	190 U	180 U	170 U	180 U	170 U	180 U	180 U	190 U	190 U	180 U	190 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	69 J	--
Benzo(a)pyrene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.8 U	1.7 U	1.8 U	1.7 U	1.8 U	1.8 U	1.9 U	2	--	1.9 U
2,4-Dinitrophenol	ug/kg	2300 U	1100 U	1100 U	1000 U	1100 U	1000 U	2200 U	2200 U	2300 U	2200 U	2100 U	2300 U
4,6-Dinitro-2-Methylphenol	ug/kg	560 U	560 U	540 U	510 U	540 U	520 U	550 U	550 U	580 U	560 U	530 U	580 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.8 U	1.7 U	1.8 U	1.7 U	1.8 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	110 J	--
Benzo(a)anthracene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.8 U	1.7 U	1.8 U	1.7 U	1.8 U	1.8 U	1.9 U	1.7 J	--	1.9 U
4-Chloro-3-Methylphenol	ug/kg	190 U	190 U	180 U	170 U	180 U	170 U	180 U	180 U	190 U	190 U	180 U	190 U
N-Nitroso-Di-N-Propylamine	ug/kg	190 U	190 U	180 U	170 U	180 U	170 U	180 U	180 U	190 U	190 U	180 U	190 U
Aniline	ug/kg	560 U	560 U	540 U	510 U	540 U	520 U	550 U	550 U	580 U	560 U	530 U	580 U
Benzoic Acid	ug/kg	560 U	560 U	540 U	510 U	540 U	520 U	550 U	550 U	580 U	560 U	530 U	580 U
Hexachloroethane	ug/kg	190 U	190 U	180 U	170 U	180 U	170 U	180 U	180 U	190 U	190 U	180 U	190 U
4-Chlorophenyl Phenylether	ug/kg	190 U	190 U	180 U	170 U	180 U	170 U	180 U	180 U	190 U	190 U	180 U	190 U
Hexachlorocyclopentadiene	ug/kg	560 U	560 U	540 U	510 U	540 U	520 U	550 U	550 U	580 U	560 U	530 U	580 U
Isophorone	ug/kg	190 U	190 U	180 U	170 U	180 U	170 U	180 U	180 U	190 U	190 U	180 U	190 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.8 U	1.7 U	1.8 U	1.7 U	1.8 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U
Diethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Diethylphthalate (8270C SIM)	ug/kg	20 U	20 U	19 U	19 U	20 U	19 U	20 U	20 U	21 U	20 U	19 U	21 U
Di-n-Butylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	20 U	20 U	19 U	19 U	20 U	19 U	20 U	20 U	21 U	20 U	19 U	21 U
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	75 J	--
Phenanthrene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.8 U	1.7 U	1.8 U	1.7 U	1.8 U	1.8 U	1.9 U	1.1 J	--	1.9 U
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	20 U	20 U	19 U	19 U	20 U	19 U	20 U	8.6 J	21 U	20 U	19 U	21 U
N-Nitrosodiphenylamine	ug/kg	190 U	190 U	180 U	170 U	180 U	170 U	180 U	180 U	190 U	190 U	180 U	190 U
Fluorene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Fluorene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.8 U	1.7 U	1.8 U	1.7 U	1.8 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U
Carbazole	ug/kg	190 U	190 U	180 U	170 U	180 U	170 U	180 U	180 U	190 U	190 U	180 U	190 U
Pentachlorophenol	ug/kg	560 U	560 U	540 U	510 U	540 U	520 U	550 U	550 U	580 U	560 U	530 U	580 U
2,4,6-Trichlorophenol	ug/kg	190 U	190 U	180 U	170 U	180 U	170 U	180 U	180 U	190 U	190 U	180 U	190 U
2-Nitroaniline	ug/kg	190 U	190 U	180 U	170 U	180 U	170 U	180 U	180 U	190 U	190 U	180 U	190 U
2-Nitrophenol	ug/kg	190 U	190 U	180 U	170 U	180 U	170 U	180 U	180 U	190 U	190 U	180 U	190 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.8 U	1.7 U	1.8 U	1.7 U	1.8 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.8 U	1.7 U	1.8 U	1.7 U	1.8 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.8 U	1.7 U	1.8 U	1.7 U	1.8 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U
2-Chloronaphthalene	ug/kg	190 U	190 U	180 U	170 U	180 U	170 U	180 U	180 U	190 U	190 U	180 U	190 U
3,3`-Dichlorobenzidine	ug/kg	380 U	370 U	360 U	340 U	360 U	350 U	360 U	370 U	390 U	370 U	360 U	380 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-5B

	Sample Name	SL-048-SA5B-SS-0.0-0.5	SL-048-SA5B-SB-4.0-5.0	SL-048-SA5B-SB-9.0-10.0	SL-049-SA5B-SS-0.0-0.5	SL-049-SA5B-SB-4.0-5.0	SL-049-SA5B-SB-9.0-10.0	SL-050-SA5B-SB-3.0-4.0	SL-051-SA5B-SS-0.0-0.5	SL-051-SA5B-SB-3.0-4.0	SL-053-SA5B-SB-1.8-2.8	SL-054-SA5B-SS-0.0-0.5	SL-054-SA5B-SB-3.0-4.0
	Sample Date	12/10/2010	01/19/2011	01/19/2011	02/11/2011	01/19/2011	01/19/2011	01/06/2011	12/10/2010	01/06/2011	01/10/2011	12/14/2010	01/10/2011
	Lab SDG	DE034	DE064	DE064	DE081	DE064	DE064	DE054	DE034	DE054	DE056	DE038	DE056
	Start Depth	0	4	9	0	4	9	3	0	3	1.8	0	3
	End Depth	0.5	5	10	0.5	5	10	4	0.5	4	2.8	0.5	4
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Benzidine	ug/kg	3800 U	3700 U	3600 U	3400 U	3600 U	3500 U	3600 U	3700 U	3900 U	3700 U	3600 U	3800 U
2-Methylphenol	ug/kg	190 U	190 U	180 U	170 U	180 U	170 U	180 U	180 U	190 U	190 U	180 U	190 U
2-Chlorophenol	ug/kg	190 U	190 U	180 U	170 U	180 U	170 U	180 U	180 U	190 U	190 U	180 U	190 U
2,4,5-Trichlorophenol	ug/kg	190 U	190 U	180 U	170 U	180 U	170 U	180 U	180 U	190 U	190 U	180 U	190 U
3-Nitroaniline	ug/kg	190 U	190 U	180 U	170 U	180 U	170 U	180 U	180 U	190 U	190 U	180 U	190 U
Benzyl Alcohol	ug/kg	560 U	560 U	540 U	510 U	540 U	520 U	550 U	550 U	580 U	560 U	530 U	580 U
2,6-Dinitrotoluene	ug/kg	190 U	190 U	180 U	170 U	180 U	170 U	180 U	180 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-5B

	Sample Name	SL-055-SA5B-SB-4.0-5.0	SL-055-SA5B-SB-8.5-9.5	SL-056-SA5B-SB-4.0-5.0	SL-056-SA5B-SB-9.0-10.0	SL-057-SA5B-SS-0.0-0.5	SL-058-SA5B-SB-4.0-5.0	SL-059-SA5B-SS-0.0-0.5	SL-059-SA5B-SB-4.0-5.0	SL-059-SA5B-SB-8.5-9.5	SL-060-SA5B-SB-4.0-5.0	SL-060-SA5B-SB-9.0-10.0	SL-061-SA5B-SS-0.0-0.5
	Sample Date	01/07/2011	01/07/2011	01/07/2011	01/07/2011	12/10/2010	01/06/2011	12/10/2010	01/07/2011	01/07/2011	01/07/2011	01/07/2011	12/10/2010
	Lab SDG	DE055	DE055	DE055	DE055	DE035	DE054	DE034	DE055	DE055	DE055	DE055	DE034
	Start Depth	4	8.5	4	9	0	4	0	4	8.5	4	9	0
	End Depth	5	9.5	5	10	0.5	5	0.5	5	9.5	5	10	0.5
Chemical Name	Unit	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	1.8 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	1.9 U
2,4-Dinitrotoluene	ug/kg	180 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U	190 U	180 U	190 U
Nitrobenzene	ug/kg	180 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U	190 U	180 U	190 U
1,4-Dichlorobenzene	ug/kg	180 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U	190 U	180 U	190 U
1,2,4-Trichlorobenzene	ug/kg	180 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U	190 U	180 U	190 U
1,3-Dichlorobenzene	ug/kg	180 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U	190 U	180 U	190 U
Hexachlorobutadiene	ug/kg	180 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U	190 U	180 U	190 U
1,2-Dichlorobenzene	ug/kg	180 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U	190 U	180 U	190 U
4-Nitroaniline	ug/kg	180 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U	190 U	180 U	190 U
4-Nitrophenol	ug/kg	540 U	550 U	540 U	550 U	580 U	550 U	570 U	540 U	550 U	560 U	540 U	570 U
4-Bromophenyl Phenyl Ether	ug/kg	180 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U	190 U	180 U	190 U
2,4-Dimethylphenol	ug/kg	180 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U	190 U	180 U	190 U
4-Methylphenol	ug/kg	180 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U	190 U	180 U	190 U
4-Chloroaniline	ug/kg	180 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U	190 U	180 U	190 U
3,5-Dimethylphenol	ug/kg	180 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U	190 U	180 U	190 U
Phenol	ug/kg	180 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U	190 U	180 U	190 U
Bis(2-Chloroethyl) ether	ug/kg	180 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U	190 U	180 U	190 U
Bis(2-Chloroethoxy) methane	ug/kg	180 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U	190 U	180 U	190 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	--	--	--	--	21 J	--	--	--	--	--	--	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	38	12 J	11 J	14 J	--	8.6 J	12 J	9 J	30	20 U	13 J	12 J
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	19 U	20 U	20 U	20 U	21 U	20 U	21 U	19 U	20 U	20 U	19 U	21 U
Hexachlorobenzene	ug/kg	180 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U	190 U	180 U	190 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U	1.8 U	1.9 U	1.8 U	0.6 J	1.9 U	1.8 U	1.9 U
2,4-Dichlorophenol	ug/kg	180 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U	190 U	180 U	190 U
1,2-Diphenylhydrazine	ug/kg	180 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U	190 U	180 U	190 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	1 J	1.4 J	1.3 J	2.5	1.9 U	1.8 U	1.9 U	0.99 J	5.3	1.9 U	2.7	1.9 U
Dimethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Dimethylphthalate (8270C SIM)	ug/kg	19 U	20 U	20 U	20 U	21 U	20 U	21 U	19 U	20 U	20 U	19 U	21 U
Dibenzofuran	ug/kg	180 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U	190 U	180 U	190 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	1.7 J	1.8 U	1.9	1.4 J	1.9 U	1.8 U	1.9 U	1.3 J	3.4	1.9 U	0.97 J	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	1.8 U	1.9 U	1.8 U	1.9 U	1.8 U	1.9	1.9 U	1.8 U	1.9 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	270
Benzo(b)fluoranthene (8270C SIM)	ug/kg	2.8	2	4	3.2	0.8 J	1.8 U	1.9 U	1.7 J	9.7	0.9 J	3.2	--
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	0.87 J	1.6 J	0.97 J	2.1	1.9 U	1.8 U	1.9 U	0.78 J	6	1.9 U	3.2	1.9 U
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	0.75 J	0.74 J	1.1 J	1.4 J	1.9 U	1.8 U	1.9 U	1.8 U	3.7 J	1.9 U	1.4 J	1.9 U
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	1.8 U	1.8 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	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-5B

	Sample Name	SL-055-SA5B-SB-4.0-5.0	SL-055-SA5B-SB-8.5-9.5	SL-056-SA5B-SB-4.0-5.0	SL-056-SA5B-SB-9.0-10.0	SL-057-SA5B-SS-0.0-0.5	SL-058-SA5B-SB-4.0-5.0	SL-059-SA5B-SS-0.0-0.5	SL-059-SA5B-SB-4.0-5.0	SL-059-SA5B-SB-8.5-9.5	SL-060-SA5B-SB-4.0-5.0	SL-060-SA5B-SB-9.0-10.0	SL-061-SA5B-SS-0.0-0.5
	Sample Date	01/07/2011	01/07/2011	01/07/2011	01/07/2011	12/10/2010	01/06/2011	12/10/2010	01/07/2011	01/07/2011	01/07/2011	01/07/2011	12/10/2010
	Lab SDG	DE055	DE055	DE055	DE055	DE035	DE054	DE034	DE055	DE055	DE055	DE055	DE034
	Start Depth	4	8.5	4	9	0	4	0	4	8.5	4	9	0
	End Depth	5	9.5	5	10	0.5	5	0.5	5	9.5	5	10	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Chrysene (8270C)	ug/kg	19 J	--	--	--	--	--	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	--	1.7 J	3.4	3	0.59 J	1.8 U	1.9 U	1.8	8.4	0.59 J	3.1	0.68 J
bis(2-Chloroisopropyl) ether	ug/kg	180 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U	190 U	180 U	190 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	1.5 J	1.2 J	2	2	1.9 U	1.8 U	1.9 U	0.95 J	5.6	1.9 U	2	1.9 U
2,4-Dinitrophenol	ug/kg	2200 U	2200 U	2200 U	2200 U	2300 U	2200 U	2300 U	2100 U	2200 U	2200 U	2200 U	2300 U
4,6-Dinitro-2-Methylphenol	ug/kg	540 U	550 U	540 U	550 U	580 U	550 U	570 U	540 U	550 U	560 U	540 U	570 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	1.8 U	1.8 U	0.81 J	1.8 U	1.9 U	1.8 U	1.9 U	1.8 U	1.4 J	1.9 U	1.8 U	1.9 U
Benzo(a)anthracene (8270C)	ug/kg	18 J	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	--	1.1 J	1.2 J	1.7 J	1.9 U	1.8 U	1.9 U	1.8 U	5.2	1.9 U	1.8	1.9 U
4-Chloro-3-Methylphenol	ug/kg	180 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U	190 U	180 U	190 U
N-Nitroso-Di-N-Propylamine	ug/kg	180 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U	190 U	180 U	190 U
Aniline	ug/kg	540 U	550 U	540 U	550 U	580 U	550 U	570 U	540 U	550 U	560 U	540 U	570 U
Benzoic Acid	ug/kg	540 U	550 U	540 U	550 U	580 U	550 U	570 U	540 U	550 U	560 U	540 U	570 U
Hexachloroethane	ug/kg	180 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U	190 U	180 U	190 U
4-Chlorophenyl Phenylether	ug/kg	180 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U	190 U	180 U	190 U
Hexachlorocyclopentadiene	ug/kg	540 U	550 U	540 U	550 U	580 U	550 U	570 U	540 U	550 U	560 U	540 U	570 U
Isophorone	ug/kg	180 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U	190 U	180 U	190 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	1.8 U	1.8 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	1.9 U
Diethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Diethylphthalate (8270C SIM)	ug/kg	19 U	20 U	20 U	20 U	21 U	20 U	21 U	19 U	20 U	20 U	19 U	21 U
Di-n-Butylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	19 U	20 U	20 U	20 U	21 U	20 U	21 U	19 U	20 U	20 U	19 U	21 U
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	1.8 U	1.1 J	1.8 U	1.1 J	1.9 U	1.8 U	1.9 U	1.8 U	3.4	1.9 U	1.5 J	1.9 U
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	19 U	20 U	20 U	20 U	21 U	20 U	21 U	19 U	20 U	20 U	19 U	16 J
N-Nitrosodiphenylamine	ug/kg	180 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U	190 U	180 U	190 U
Fluorene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Fluorene (8270C SIM)	ug/kg	1.8 U	1.8 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	1.9 U
Carbazole	ug/kg	180 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U	190 U	180 U	190 U
Pentachlorophenol	ug/kg	540 U	550 U	540 U	550 U	580 U	550 U	570 U	540 U	550 U	560 U	540 U	570 U
2,4,6-Trichlorophenol	ug/kg	180 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U	190 U	180 U	190 U
2-Nitroaniline	ug/kg	180 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U	190 U	180 U	190 U
2-Nitrophenol	ug/kg	180 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U	190 U	180 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	1.9 U	1.8 U	1.9 U	1.8 U	1.8 U	1.9 U	1.8 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	1.9 U	1.8 U	1.9 U	1.8 U	0.75 J	1.9 U	1.8 U	1.9 U
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	1.8 U	1.8 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	1.9 U
2-Chloronaphthalene	ug/kg	180 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U	190 U	180 U	190 U
3,3`-Dichlorobenzidine	ug/kg	360 U	370 U	360 U	360 U	390 U	370 U	380 U	360 U	360 U	370 U	360 U	380 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-5B

	Sample Name	SL-055-SA5B-SB-4.0-5.0	SL-055-SA5B-SB-8.5-9.5	SL-056-SA5B-SB-4.0-5.0	SL-056-SA5B-SB-9.0-10.0	SL-057-SA5B-SS-0.0-0.5	SL-058-SA5B-SB-4.0-5.0	SL-059-SA5B-SS-0.0-0.5	SL-059-SA5B-SB-4.0-5.0	SL-059-SA5B-SB-8.5-9.5	SL-060-SA5B-SB-4.0-5.0	SL-060-SA5B-SB-9.0-10.0	SL-061-SA5B-SS-0.0-0.5
	Sample Date	01/07/2011	01/07/2011	01/07/2011	01/07/2011	12/10/2010	01/06/2011	12/10/2010	01/07/2011	01/07/2011	01/07/2011	01/07/2011	12/10/2010
	Lab SDG	DE055	DE055	DE055	DE055	DE035	DE054	DE034	DE055	DE055	DE055	DE055	DE034
	Start Depth	4	8.5	4	9	0	4	0	4	8.5	4	9	0
	End Depth	5	9.5	5	10	0.5	5	0.5	5	9.5	5	10	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Benzidine	ug/kg	3600 U	3700 U	3600 U	3600 U	3900 U	3700 U	3800 U	3600 U	3600 U	3700 U	3600 U	3800 U
2-Methylphenol	ug/kg	180 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U	190 U	180 U	190 U
2-Chlorophenol	ug/kg	180 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U	190 U	180 U	190 U
2,4,5-Trichlorophenol	ug/kg	180 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U	190 U	180 U	190 U
3-Nitroaniline	ug/kg	180 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U	190 U	180 U	190 U
Benzyl Alcohol	ug/kg	540 U	550 U	540 U	550 U	580 U	550 U	570 U	540 U	550 U	560 U	540 U	570 U
2,6-Dinitrotoluene	ug/kg	180 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U	180 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-5B

	Sample Name	SL-061-SA5B-SB-3.5-4.5	SL-062-SA5B-SS-0.0-0.5	SL-062-SA5B-SB-4.0-5.0	SL-062-SA5B-SB-9.0-10.0	SL-063-SA5B-SB-3.0-4.0	SL-064-SA5B-SS-0.0-0.5	SL-065-SA5B-SS-0.0-0.5	SL-065-SA5B-SB-4.0-5.0	SL-065-SA5B-SB-9.0-10.0	SL-066-SA5B-SB-3.0-4.0	SL-067-SA5B-SS-0.0-0.5	SL-067-SA5B-SB-3.5-4.5
	Sample Date	01/07/2011	12/10/2010	01/07/2011	01/07/2011	01/06/2011	12/10/2010	12/10/2010	01/05/2011	01/05/2011	01/06/2011	12/10/2010	01/05/2011
	Lab SDG	DE055	DE034	DE055	DE055	DE054	DE034	DE034	DE053	DE053	DE054	DE034	DE053
	Start Depth	3.5	0	4	9	3	0	0	4	9	3	0	3.5
	End Depth	4.5	0.5	5	10	4	0.5	0.5	5	10	4	0.5	4.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
N-Nitrosodimethylamine (1625C)	ng/kg	--	--	--	--	24.5 J	--	--	--	--	--	--	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.8 U	1.9 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	9 U	1.8 U
2,4-Dinitrotoluene	ug/kg	180 U	190 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	180 U	900 U	180 U
Nitrobenzene	ug/kg	180 U	190 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	180 U	900 U	180 U
1,4-Dichlorobenzene	ug/kg	180 U	190 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	180 U	900 U	180 U
1,2,4-Trichlorobenzene	ug/kg	180 U	190 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	180 U	900 U	180 U
1,3-Dichlorobenzene	ug/kg	180 U	190 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	180 U	900 U	180 U
Hexachlorobutadiene	ug/kg	180 U	190 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	180 U	900 U	180 U
1,2-Dichlorobenzene	ug/kg	180 U	190 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	180 U	900 U	180 U
4-Nitroaniline	ug/kg	180 U	190 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	180 U	900 U	180 U
4-Nitrophenol	ug/kg	550 U	580 U	550 U	540 U	540 U	560 U	550 U	550 U	550 U	550 U	2700 U	550 U
4-Bromophenyl Phenyl Ether	ug/kg	180 U	190 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	180 U	900 U	180 U
2,4-Dimethylphenol	ug/kg	180 U	190 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	180 U	900 U	180 U
4-Methylphenol	ug/kg	180 U	190 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	180 U	900 U	180 U
4-Chloroaniline	ug/kg	180 U	190 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	180 U	900 U	180 U
3,5-Dimethylphenol	ug/kg	180 U	190 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	180 U	900 U	180 U
Phenol	ug/kg	180 U	190 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	180 U	900 U	180 U
Bis(2-Chloroethyl) ether	ug/kg	180 U	190 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	180 U	900 U	180 U
Bis(2-Chloroethoxy) methane	ug/kg	180 U	190 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	180 U	900 U	180 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	20 U	15 J	20 U	8.6 J	20 U	11 J	9.3 J	20 U	14 J	20 UJ	35 J	20 U
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	20 U	21 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	97 U	20 U
Hexachlorobenzene	ug/kg	180 U	190 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	180 U	900 U	180 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	1.8 U	1.9 U	1.8 U	0.36 J	1.8 U	1.9 U	1.8 U	1.8 U	1.8 U	1.8 U	2 J	1.8 U
2,4-Dichlorophenol	ug/kg	180 U	190 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	180 U	900 U	180 U
1,2-Diphenylhydrazine	ug/kg	180 U	190 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	180 U	900 U	180 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	98 J	--
Pyrene (8270C SIM)	ug/kg	1.8	1.9 U	1.8 U	3.6	1.8 U	1.1 J	1.8 U	3.2	1.8 U	1.8 U	--	1.8 U
Dimethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Dimethylphthalate (8270C SIM)	ug/kg	20 U	21 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	97 U	20 U
Dibenzofuran	ug/kg	180 U	190 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	180 U	900 U	180 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	120 J	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	0.95 J	1.9 U	1.8 U	1.3 J	1.8 U	1.9	1.8 U	1.3 J	1.8 U	0.88 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	1.9 U	1.8 U	0.92 J	1.8 U	1.9 U	1.8 U	1.3 J	1.8 U	1.8 U	15	1.8 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	130 J	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	2.9	1.9 U	0.89 J	4.8	1.8 U	2.3	0.87 J	6.9	1.1 J	1.8 U	--	1.8 U
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	2.1	1.9 U	1.8 U	3.5	1.8 U	1.2 J	1.8 U	3.5	1.8 U	1.8 U	97	1.8 U
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	1.3 J	1.9 U	1.8 U	2.1 J	1.8 U	1.9 U	1.8 U	4.5	1.8 U	1.8 U	27	1.8 U
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	1.8 U	1.9 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	9 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-5B

	Sample Name	SL-061-SA5B-SB-3.5-4.5	SL-062-SA5B-SS-0.0-0.5	SL-062-SA5B-SB-4.0-5.0	SL-062-SA5B-SB-9.0-10.0	SL-063-SA5B-SB-3.0-4.0	SL-064-SA5B-SS-0.0-0.5	SL-065-SA5B-SS-0.0-0.5	SL-065-SA5B-SB-4.0-5.0	SL-065-SA5B-SB-9.0-10.0	SL-066-SA5B-SB-3.0-4.0	SL-067-SA5B-SS-0.0-0.5	SL-067-SA5B-SB-3.5-4.5
	Sample Date	01/07/2011	12/10/2010	01/07/2011	01/07/2011	01/06/2011	12/10/2010	12/10/2010	01/05/2011	01/05/2011	01/06/2011	12/10/2010	01/05/2011
	Lab SDG	DE055	DE034	DE055	DE055	DE054	DE034	DE034	DE053	DE053	DE054	DE034	DE053
	Start Depth	3.5	0	4	9	3	0	0	4	9	3	0	3.5
	End Depth	4.5	0.5	5	10	4	0.5	0.5	5	10	4	0.5	4.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Chrysene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	330 J	--
Chrysene (8270C SIM)	ug/kg	2.5	1.9 U	0.68 J	3.1	1.8 U	1.6 J	0.6 J	5.3	0.8 J	1.8 U	--	1.8 U
bis(2-Chloroisopropyl) ether	ug/kg	180 U	190 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	180 U	900 U	180 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	58 J	--	--	--	--	240 J	--
Benzo(a)pyrene (8270C SIM)	ug/kg	2.2	1.9 U	1.8 U	2.9	1.8 U	--	1.8 U	2.5	1.8 U	1.8 U	--	1.8 U
2,4-Dinitrophenol	ug/kg	2200 U	2300 U	2200 U	2200 U	2200 U	2200 U	2200 U	2200 U	2200 U	2200 U	11000 U	2200 U
4,6-Dinitro-2-Methylphenol	ug/kg	550 U	580 U	550 U	540 U	540 U	560 U	550 U	550 U	550 U	550 U	2700 U	550 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	1.8 U	1.9 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	6.2 J	1.8 U
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	97 J	--
Benzo(a)anthracene (8270C SIM)	ug/kg	1.7 J	1.9 U	1.8 U	2.3	1.8 U	1.9 U	1.8 U	4.1	1.8 U	1.8 U	--	1.8 U
4-Chloro-3-Methylphenol	ug/kg	180 U	190 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	180 U	900 U	180 U
N-Nitroso-Di-N-Propylamine	ug/kg	180 U	190 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	180 U	900 U	180 U
Aniline	ug/kg	550 U	580 U	550 U	540 U	540 U	560 U	550 U	550 U	550 U	550 U	2700 U	550 U
Benzoic Acid	ug/kg	550 U	580 U	550 U	540 U	540 U	560 U	550 U	550 U	550 U	550 U	2700 U	550 U
Hexachloroethane	ug/kg	180 U	190 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	180 U	900 U	180 U
4-Chlorophenyl Phenylether	ug/kg	180 U	190 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	180 U	900 U	180 U
Hexachlorocyclopentadiene	ug/kg	550 U	580 U	550 U	540 U	540 U	560 U	550 U	550 U	550 U	550 U	2700 U	550 U
Isophorone	ug/kg	180 U	190 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	180 U	900 U	180 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	1.8 U	1.9 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	9 U	1.8 U
Diethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Diethylphthalate (8270C SIM)	ug/kg	20 U	21 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	97 U	20 U
Di-n-Butylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	20 U	21 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	97 U	20 U
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	0.99 J	1.9 U	1.8 U	1.3 J	1.8 U	1.9 U	1.8 U	1.3 J	1.8 U	1.8 U	19	1.8 U
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	20 U	21 U	20 U	20 U	20 U	7.8 J	20 U	20 U	20 U	20 U	97 U	20 U
N-Nitrosodiphenylamine	ug/kg	180 U	190 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	180 U	900 U	180 U
Fluorene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Fluorene (8270C SIM)	ug/kg	1.8 U	1.9 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	9 U	1.8 U
Carbazole	ug/kg	180 U	190 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	180 U	900 U	180 U
Pentachlorophenol	ug/kg	550 U	580 U	550 U	540 U	540 U	560 U	550 U	550 U	550 U	550 U	2700 U	550 U
2,4,6-Trichlorophenol	ug/kg	180 U	190 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	180 U	900 U	180 U
2-Nitroaniline	ug/kg	180 U	190 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	180 U	900 U	180 U
2-Nitrophenol	ug/kg	180 U	190 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	180 U	900 U	180 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	1.8 U	1.9 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	9 U	1.8 U
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene (8270C SIM)	ug/kg	1.8 U	1.9 U	1.8 U	0.78 J	1.8 U	1.9 U	1.8 U	1.8 U	1.8 U	1.8 U	9 U	1.8 U
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	1.8 U	1.9 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	9 U	1.8 U
2-Chloronaphthalene	ug/kg	180 U	190 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	180 U	900 U	180 U
3,3`-Dichlorobenzidine	ug/kg	370 U	390 U	370 U	360 U	360 U	370 U	370 U	370 U	370 U	370 U	1800 U	370 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-5B

	Sample Name	SL-061-SA5B-SB-3.5-4.5	SL-062-SA5B-SS-0.0-0.5	SL-062-SA5B-SB-4.0-5.0	SL-062-SA5B-SB-9.0-10.0	SL-063-SA5B-SB-3.0-4.0	SL-064-SA5B-SS-0.0-0.5	SL-065-SA5B-SS-0.0-0.5	SL-065-SA5B-SB-4.0-5.0	SL-065-SA5B-SB-9.0-10.0	SL-066-SA5B-SB-3.0-4.0	SL-067-SA5B-SS-0.0-0.5	SL-067-SA5B-SB-3.5-4.5
	Sample Date	01/07/2011	12/10/2010	01/07/2011	01/07/2011	01/06/2011	12/10/2010	12/10/2010	01/05/2011	01/05/2011	01/06/2011	12/10/2010	01/05/2011
	Lab SDG	DE055	DE034	DE055	DE055	DE054	DE034	DE034	DE053	DE053	DE054	DE034	DE053
	Start Depth	3.5	0	4	9	3	0	0	4	9	3	0	3.5
	End Depth	4.5	0.5	5	10	4	0.5	0.5	5	10	4	0.5	4.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Benzidine	ug/kg	3700 U	3900 U	3700 U	3600 U	3600 U	3700 U	3700 U	3700 U	3700 U	3700 R	18000 U	3700 U
2-Methylphenol	ug/kg	180 U	190 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	180 U	900 U	180 U
2-Chlorophenol	ug/kg	180 U	190 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	180 U	900 U	180 U
2,4,5-Trichlorophenol	ug/kg	180 U	190 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	180 U	900 U	180 U
3-Nitroaniline	ug/kg	180 U	190 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	180 U	900 U	180 U
Benzyl Alcohol	ug/kg	550 U	580 U	550 U	540 U	540 U	560 U	550 U	550 U	550 U	550 U	2700 U	550 U
2,6-Dinitrotoluene	ug/kg	180 U	190 U	180 U	180 U	180 U	190 U	180 U	180 U	180 U	180 U	900 U	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-5B

	Sample Name	SL-068-SA5B-SB-3.0-4.0	SL-069-SA5B-SB-3.0-4.0	SL-070-SA5B-SS-0.0-0.5	SL-070-SA5B-SB-2.5-3.5	SL-071-SA5B-SS-0.0-0.5	SL-071-SA5B-SB-2.0-3.0	SL-072-SA5B-SS-0.0-0.5	SL-072-SA5B-SB-4.0-5.0	SL-073-SA5B-SS-0.0-0.5	SL-073-SA5B-SB-4.0-5.0	SL-074-SA5B-SS-0.0-0.5	SL-074-SA5B-SB-4.0-5.0
	Sample Date	01/05/2011	01/05/2011	12/10/2010	01/05/2011	12/13/2010	01/12/2011	12/13/2010	01/12/2011	12/13/2010	01/13/2011	12/13/2010	01/13/2011
	Lab SDG	DE053	DE053	DE034	DE053	DE036	DE059	DE036	DE059	DE036	DE060	DE036	DE060
	Start Depth	3	3	0	2.5	0	2	0	4	0	4	0	4
	End Depth	4	4	0.5	3.5	0.5	3	0.5	5	0.5	5	0.5	5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
N-Nitrosodimethylamine (1625C)	ng/kg	--	35.8 U	--	35.7 U	--	32.5 J	--	32.2 J	--	--	--	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.9 U	1.8 U	2 U	1.8 U	1.8 U	1.9 U	1.8 U	1.9 U	18 U	1.9 U	1.8 U	1.9 U
2,4-Dinitrotoluene	ug/kg	190 U	180 U	200 U	180 U	180 U	190 U	180 U	190 U	180 U	190 U	180 U	190 U
Nitrobenzene	ug/kg	190 U	180 U	200 U	180 U	180 U	190 U	180 U	190 U	180 U	190 U	180 U	190 U
1,4-Dichlorobenzene	ug/kg	190 U	180 U	200 U	180 U	180 U	190 U	180 U	190 U	180 U	190 U	180 U	190 U
1,2,4-Trichlorobenzene	ug/kg	190 U	180 U	200 U	180 U	180 U	190 U	180 U	190 U	180 U	190 U	180 U	190 U
1,3-Dichlorobenzene	ug/kg	190 U	180 U	200 U	180 U	180 U	190 U	180 U	190 U	180 U	190 U	180 U	190 U
Hexachlorobutadiene	ug/kg	190 U	180 U	200 U	180 U	180 U	190 U	180 U	190 U	180 U	190 U	180 U	190 U
1,2-Dichlorobenzene	ug/kg	190 U	180 U	200 U	180 U	180 U	190 U	180 U	190 U	180 U	190 U	180 U	190 U
4-Nitroaniline	ug/kg	190 U	180 U	200 U	180 U	180 U	190 U	180 U	190 U	180 U	190 U	180 U	190 U
4-Nitrophenol	ug/kg	570 U	540 U	590 U	540 U	530 U	560 U	530 U	570 U	530 U	570 U	540 U	580 U
4-Bromophenyl Phenyl Ether	ug/kg	190 U	180 U	200 U	180 U	180 U	190 U	180 U	190 U	180 U	190 U	180 U	190 U
2,4-Dimethylphenol	ug/kg	190 U	180 U	200 U	180 U	180 U	190 U	180 U	190 U	180 U	190 U	180 U	190 U
4-Methylphenol	ug/kg	190 U	180 U	200 U	180 U	180 U	190 U	180 U	190 U	180 U	190 U	180 U	190 U
4-Chloroaniline	ug/kg	190 U	180 U	200 U	180 U	180 U	190 U	180 U	190 U	180 U	190 U	180 U	190 U
3,5-Dimethylphenol	ug/kg	190 U	180 U	200 U	180 U	180 U	190 U	180 U	190 U	180 U	190 U	180 U	190 U
Phenol	ug/kg	190 U	180 U	200 U	180 U	180 U	190 U	180 U	190 U	180 U	190 U	180 U	190 U
Bis(2-Chloroethyl) ether	ug/kg	190 U	180 U	200 U	180 U	180 U	190 U	180 U	190 U	180 U	190 U	180 U	190 U
Bis(2-Chloroethoxy) methane	ug/kg	190 U	180 U	200 U	180 U	180 U	190 U	180 U	190 U	180 U	190 U	180 U	190 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	--	--	--	--	360 UJ	--	39 J	--	350 U	380 U	41 J	390 U
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	20 U	19 U	20 J	9.1 J	--	20 U	--	20 U	--	--	--	--
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	180 U	26 J	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	20 U	19 U	21 U	19 U	19 U	20 U	19 U	20 U	--	--	20 U	21 U
Hexachlorobenzene	ug/kg	190 U	180 U	200 U	180 U	180 U	190 U	180 U	190 U	180 U	190 U	180 U	190 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	1.9 U	1.8 U	2.5	1.8 U	6.9 J	1.9 U	0.62 J	1.9 U	18 U	1.9 U	3.6	1.9 U
2,4-Dichlorophenol	ug/kg	190 U	180 U	200 U	180 U	180 U	190 U	180 U	190 U	180 U	190 U	180 U	190 U
1,2-Diphenylhydrazine	ug/kg	190 U	180 U	200 U	180 U	180 U	190 U	180 U	190 U	180 U	190 U	180 U	190 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--	25 J	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	1.9 U	1.8 U	18	1.8 U	85 J	1.9 U	--	1.9 U	17 J	1.9 U	32	1.9 U
Dimethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	180 U	--	--	--
Dimethylphthalate (8270C SIM)	ug/kg	20 U	19 U	21 U	19 U	19 U	20 U	19 U	20 U	--	21 U	20 U	21 U
Dibenzofuran	ug/kg	190 U	180 U	200 U	180 U	180 U	190 U	180 U	190 U	180 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	1.8 U	4.4	0.73 J	190	1.9 U	0.96 J	1.9 U	24	1.9 U	14	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	1.8 U	3.1	1.8 U	290	1.9 U	0.96 J	1.9 U	12 J	1.9 U	11	1.9 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	280	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	1.9 U	1.8 U	--	0.77 J	660	1.9 U	4.3	1.9 U	36	1.9 U	40	1.9 U
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	20 J	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	1.9 U	1.8 U	28	1.8 U	170	1.9 U	--	1.9 U	23	1.9 U	36	1.9 U
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	1.9 U	1.8 U	7.4	1.8 U	91 J	1.9 U	1.9	1.9 U	18 U	1.9 U	11	1.9 U
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	1.9 U	1.8 U	0.59 J	1.8 U	18 J	1.9 U	1.8 U	1.9 U	18 U	1.9 U	0.58 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-5B

	Sample Name	SL-068-SA5B-SB-3.0-4.0	SL-069-SA5B-SB-3.0-4.0	SL-070-SA5B-SS-0.0-0.5	SL-070-SA5B-SB-2.5-3.5	SL-071-SA5B-SS-0.0-0.5	SL-071-SA5B-SB-2.0-3.0	SL-072-SA5B-SS-0.0-0.5	SL-072-SA5B-SB-4.0-5.0	SL-073-SA5B-SS-0.0-0.5	SL-073-SA5B-SB-4.0-5.0	SL-074-SA5B-SS-0.0-0.5	SL-074-SA5B-SB-4.0-5.0
	Sample Date	01/05/2011	01/05/2011	12/10/2010	01/05/2011	12/13/2010	01/12/2011	12/13/2010	01/12/2011	12/13/2010	01/13/2011	12/13/2010	01/13/2011
	Lab SDG	DE053	DE053	DE034	DE053	DE036	DE059	DE036	DE059	DE036	DE060	DE036	DE060
	Start Depth	3	3	0	2.5	0	2	0	4	0	4	0	4
	End Depth	4	4	0.5	3.5	0.5	3	0.5	5	0.5	5	0.5	5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Chrysene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	1.9 U	1.8 U	15	0.62 J	450	1.9 U	4.1	1.9 U	20	1.9 U	40	1.9 U
bis(2-Chloroisopropyl) ether	ug/kg	190 U	180 U	200 U	180 U	180 U	190 U	180 U	190 U	180 U	190 U	180 U	190 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	1.9 U	1.8 U	8.2	1.8 U	220	1.9 U	3.1	1.9 U	16 J	1.9 U	26	1.9 U
2,4-Dinitrophenol	ug/kg	2300 U	2200 U	2400 U	2100 U	2100 U	1100 U	2100 U	1100 U	2100 U	2300 U	2200 U	2300 U
4,6-Dinitro-2-Methylphenol	ug/kg	570 U	540 U	590 U	540 U	530 U	560 UJ	530 U	570 UJ	530 U	570 U	540 U	580 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	1.9 U	1.8 U	1.5 J	1.8 U	55 J	1.9 U	1.8 U	1.9 U	18 U	1.9 U	3.7	1.9 U
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	1.9 U	1.8 U	6.3	1.8 U	73 J	1.9 U	3.3	1.9 U	13 J	1.9 U	22	1.9 U
4-Chloro-3-Methylphenol	ug/kg	190 U	180 U	200 U	180 U	180 U	190 U	180 U	190 U	180 U	190 U	180 U	190 U
N-Nitroso-Di-N-Propylamine	ug/kg	190 U	180 U	200 U	180 U	180 U	190 U	180 U	190 U	180 U	190 U	180 U	190 U
Aniline	ug/kg	570 U	540 U	590 U	540 U	530 U	560 U	530 U	570 U	530 U	570 U	540 U	580 U
Benzoic Acid	ug/kg	570 U	540 U	590 U	540 U	530 U	560 U	530 U	570 U	530 U	570 U	540 U	580 U
Hexachloroethane	ug/kg	190 U	180 U	200 U	180 U	180 U	190 U	180 U	190 U	180 U	190 U	180 U	190 U
4-Chlorophenyl Phenylether	ug/kg	190 U	180 U	200 U	180 U	180 U	190 U	180 U	190 U	180 U	190 U	180 U	190 U
Hexachlorocyclopentadiene	ug/kg	570 U	540 U	590 U	540 U	530 U	560 U	530 U	570 U	530 U	570 U	540 U	580 U
Isophorone	ug/kg	190 U	180 U	200 U	180 U	180 U	190 U	180 U	190 U	180 U	190 U	180 U	190 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	1.9 U	1.8 U	2 U	1.8 U	1.8 U	1.9 U	1.8 U	1.9 U	18 U	1.9 U	1.5 J	1.9 U
Diethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	180 U	--	--	--
Diethylphthalate (8270C SIM)	ug/kg	20 U	19 U	21 U	19 U	19 U	20 U	19 U	20 U	--	21 U	20 U	21 U
Di-n-Butylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	180 U	--	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	20 U	19 U	7.5 J	19 U	19 UJ	20 U	19 U	20 U	--	21 U	9 J	21 U
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	1.9 U	1.8 U	9.3	1.8 U	54 J	1.9 U	3.1	1.9 U	18 U	1.9 U	18	1.9 U
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	180 U	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	20 U	19 U	21 U	19 U	19 U	20 U	19 U	20 U	--	21 U	20 U	21 U
N-Nitrosodiphenylamine	ug/kg	190 U	180 U	200 U	180 U	180 U	190 U	180 U	190 U	180 U	190 U	180 U	190 U
Fluorene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Fluorene (8270C SIM)	ug/kg	1.9 U	1.8 U	2 U	1.8 U	1.8 U	1.9 U	1.8 U	1.9 U	18 U	1.9 U	0.8 J	1.9 U
Carbazole	ug/kg	190 U	180 U	200 U	180 U	180 U	190 U	180 U	190 U	180 U	190 U	180 U	190 U
Pentachlorophenol	ug/kg	570 U	540 U	590 U	540 U	530 U	560 U	530 U	570 U	530 U	570 U	540 U	580 U
2,4,6-Trichlorophenol	ug/kg	190 U	180 U	200 U	180 U	180 U	190 U	180 U	190 U	180 U	190 U	180 U	190 U
2-Nitroaniline	ug/kg	190 U	180 U	200 U	180 U	180 U	190 U	180 U	190 U	180 U	190 U	180 U	190 U
2-Nitrophenol	ug/kg	190 U	180 U	200 U	180 U	180 U	190 U	180 U	190 U	180 U	190 U	180 U	190 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	1.9 U	1.8 U	2 U	1.8 U	1.8 UJ	1.9 U	1.8 U	1.9 U	18 U	1.9 U	1.2 J	1.9 U
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene (8270C SIM)	ug/kg	1.9 U	1.8 U	2 U	1.8 U	3.3 J	1.9 U	1.8 U	1.9 U	18 U	1.9 U	1.7 J	1.9 U
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	1.9 U	1.8 U	2 U	1.8 U	0.74 J	1.9 U	1.8 U	1.9 U	18 U	1.9 U	1.8	1.9 U
2-Chloronaphthalene	ug/kg	190 U	180 U	200 U	180 U	180 U	190 U	180 U	190 U	180 U	190 U	180 U	190 U
3,3`-Dichlorobenzidine	ug/kg	380 U	360 U	390 U	360 U	360 UJ	370 U	350 UJ	380 U	350 UJ	380 U	360 UJ	390 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-5B

	Sample Name	SL-068-SA5B-SB-3.0-4.0	SL-069-SA5B-SB-3.0-4.0	SL-070-SA5B-SS-0.0-0.5	SL-070-SA5B-SB-2.5-3.5	SL-071-SA5B-SS-0.0-0.5	SL-071-SA5B-SB-2.0-3.0	SL-072-SA5B-SS-0.0-0.5	SL-072-SA5B-SB-4.0-5.0	SL-073-SA5B-SS-0.0-0.5	SL-073-SA5B-SB-4.0-5.0	SL-074-SA5B-SS-0.0-0.5	SL-074-SA5B-SB-4.0-5.0
	Sample Date	01/05/2011	01/05/2011	12/10/2010	01/05/2011	12/13/2010	01/12/2011	12/13/2010	01/12/2011	12/13/2010	01/13/2011	12/13/2010	01/13/2011
	Lab SDG	DE053	DE053	DE034	DE053	DE036	DE059	DE036	DE059	DE036	DE060	DE036	DE060
	Start Depth	3	3	0	2.5	0	2	0	4	0	4	0	4
	End Depth	4	4	0.5	3.5	0.5	3	0.5	5	0.5	5	0.5	5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Benzidine	ug/kg	3800 U	3600 U	3900 U	3600 U	3600 UJ	3700 U	3500 U	3800 U	3500 U	3800 UJ	3600 U	3900 U
2-Methylphenol	ug/kg	190 U	180 U	200 U	180 U	180 U	190 U	180 U	190 U	180 U	190 U	180 U	190 U
2-Chlorophenol	ug/kg	190 U	180 U	200 U	180 U	180 U	190 U	180 U	190 U	180 U	190 U	180 U	190 U
2,4,5-Trichlorophenol	ug/kg	190 U	180 U	200 U	180 U	180 U	190 U	180 U	190 U	180 U	190 U	180 U	190 U
3-Nitroaniline	ug/kg	190 U	180 U	200 U	180 U	180 U	190 U	180 U	190 U	180 U	190 U	180 U	190 U
Benzyl Alcohol	ug/kg	570 U	540 U	590 U	540 U	530 U	560 U	530 U	570 U	530 U	570 U	540 U	580 U
2,6-Dinitrotoluene	ug/kg	190 U	180 U	200 U	180 U	180 U	190 U	180 U	190 U	180 U	190 U	180 U	190 U

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R – Result is rejected

Appendix A6
Semivolatile Organics - Validated Data
HSA-5B

	Sample Name	SL-074-SA5B-SB-7.0-8.0	SL-075-SA5B-SS-0.0-0.5	SL-076-SA5B-SS-0.0-0.5	SL-077-SA5B-SS-0.0-0.5	SL-078-SA5B-SS-0.0-0.5	SL-078-SA5B-SB-4.0-5.0	SL-081-SA5B-SB-2.5-3.5	SL-081-SA5B-SB-6.0-7.0	SL-082-SA5B-SB-2.25-3.25	SL-082-SA5B-SB-7.0-8.0	SL-083-SA5B-SS-0.0-0.5	SL-083-SA5B-SB-4.0-5.0
	Sample Date	01/13/2011	12/13/2010	12/13/2010	12/13/2010	12/13/2010	01/17/2011	01/14/2011	01/14/2011	01/17/2011	01/17/2011	12/13/2010	01/14/2011
	Lab SDG	DE060	DE037	DE036	DE037	DE036	DE062	DE061	DE061	DE062	DE062	DE036	DE061
	Start Depth	7	0	0	0	0	4	2.5	6	2.25	7	0	4
	End Depth	8	0.5	0.5	0.5	0.5	5	3.5	7	3.25	8	0.5	5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
N-Nitrosodimethylamine (1625C)	ng/kg	--	--	--	--	--	--	2090 J	38.1 U	194 U	38.4 U	--	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	2 U	1.8 U	1.8 U	1.8 U	18 U	2 U	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	1.9 U
2,4-Dinitrotoluene	ug/kg	200 U	180 U	180 U	180 U	180 U	200 U	190 U	190 U	190 U	190 U	180 U	190 U
Nitrobenzene	ug/kg	200 U	180 U	180 U	180 U	180 U	200 U	190 U	190 U	190 U	190 U	180 U	190 U
1,4-Dichlorobenzene	ug/kg	200 U	180 U	180 U	180 U	180 U	200 U	190 U	190 U	190 U	190 U	180 U	190 U
1,2,4-Trichlorobenzene	ug/kg	200 U	180 U	180 U	180 U	180 U	200 U	190 U	190 U	190 U	190 U	180 U	190 U
1,3-Dichlorobenzene	ug/kg	200 U	180 U	180 U	180 U	180 U	200 U	190 U	190 U	190 U	190 U	180 U	190 U
Hexachlorobutadiene	ug/kg	200 U	180 U	180 U	180 U	180 U	200 U	190 U	190 U	190 U	190 U	180 U	190 U
1,2-Dichlorobenzene	ug/kg	200 U	180 U	180 U	180 U	180 U	200 U	190 U	190 U	190 U	190 U	180 U	190 U
4-Nitroaniline	ug/kg	200 U	180 U	180 U	180 U	180 U	200 U	190 U	190 U	190 U	190 U	180 U	190 U
4-Nitrophenol	ug/kg	590 U	530 U	530 U	540 U	550 U	590 U	560 U	570 U	580 U	580 U	540 U	560 U
4-Bromophenyl Phenyl Ether	ug/kg	200 U	180 U	180 U	180 U	180 U	200 U	190 U	190 U	190 U	190 U	180 U	190 U
2,4-Dimethylphenol	ug/kg	200 U	180 U	180 U	180 U	180 U	200 U	190 U	190 U	190 U	190 U	180 U	190 U
4-Methylphenol	ug/kg	200 U	180 U	180 U	180 U	180 U	200 U	190 U	190 U	190 U	190 U	180 U	190 U
4-Chloroaniline	ug/kg	200 U	180 U	180 U	180 U	180 U	200 U	190 U	190 U	190 U	190 U	180 U	190 U
3,5-Dimethylphenol	ug/kg	200 U	180 U	180 U	180 U	180 U	200 U	190 U	190 U	190 U	190 U	180 U	190 U
Phenol	ug/kg	200 U	180 U	180 U	180 U	180 U	200 U	190 U	190 U	190 U	190 U	180 U	190 U
Bis(2-Chloroethyl) ether	ug/kg	200 U	180 U	180 U	180 U	180 U	200 U	190 U	190 U	190 U	190 U	180 U	190 U
Bis(2-Chloroethoxy) methane	ug/kg	200 U	180 U	180 U	180 U	180 U	200 U	190 U	190 U	190 U	190 U	180 U	190 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	390 U	--	23 J	--	370 U	--	--	--	--	--	360 U	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	--	19 U	--	19 U	--	21 U	20 U	21 U	21 U	21 U	--	20 U
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	--	--	180 U	--	--	180 J	--	--	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	21 U	19 U	19 U	19 U	--	21 U	20 U	--	21 U	21 U	20 U	20 U
Hexachlorobenzene	ug/kg	200 U	180 U	180 U	180 U	180 U	200 U	190 U	190 U	190 U	190 U	180 U	190 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	2 U	0.49 J	1.8 U	1.8 U	18 U	2.8	1.9 U	1.9 U	1.9 U	1.9 U	2.1	1.9 U
2,4-Dichlorophenol	ug/kg	200 U	180 U	180 U	180 U	180 U	200 U	190 U	190 U	190 U	190 U	180 U	190 U
1,2-Diphenylhydrazine	ug/kg	200 U	180 U	180 U	180 U	180 U	200 U	190 U	190 U	190 U	190 U	180 U	190 U
Pyrene (8270C)	ug/kg	--	--	18 J	--	--	--	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	2 U	9.8	--	3	13 J	3.2	1.9 U	1.9 U	1.9 U	3.4	19	1.9 U
Dimethylphthalate (8270C)	ug/kg	--	--	--	--	180 U	--	--	--	--	--	--	--
Dimethylphthalate (8270C SIM)	ug/kg	21 U	19 U	19 U	19 U	--	21 U	20 U	21 U	21 U	21 U	20 U	20 U
Dibenzofuran	ug/kg	200 U	180 U	180 U	180 U	180 U	200 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	2 U	4.2	1.8 U	1.3 J	16 J	3.9	1.9 U	2.5	1.9 U	1.9	7.2	1.9 U
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	2 U	3.5	1.8 U	1.2 J	18 U	3.4	1.9 U	1.9 U	1.9 U	1.9 U	5.7	1.9 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	2 U	10	1.8 U	3.8	19	6	1.9 U	1.9 U	1.4 J	3.1	31	1.9 U
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	2 U	12	1.8 U	3.7	16 J	3.8	1.9 U	1.9 U	1.9 U	2.7	28	1.9 U
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	2 U	4.1	1.8 U	1.4 J	18 U	5.2	1.9 U	1.9 U	1.9 U	1.1 J	11	1.9 U
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	2 U	1.8 U	1.8 U	1.8 U	18 U	0.53 J	1.9 U	1.9 U	1.9 U	1.9 U	1.8 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-5B

	Sample Name	SL-074-SA5B-SB-7.0-8.0	SL-075-SA5B-SS-0.0-0.5	SL-076-SA5B-SS-0.0-0.5	SL-077-SA5B-SS-0.0-0.5	SL-078-SA5B-SS-0.0-0.5	SL-078-SA5B-SB-4.0-5.0	SL-081-SA5B-SB-2.5-3.5	SL-081-SA5B-SB-6.0-7.0	SL-082-SA5B-SB-2.25-3.25	SL-082-SA5B-SB-7.0-8.0	SL-083-SA5B-SS-0.0-0.5	SL-083-SA5B-SB-4.0-5.0
	Sample Date	01/13/2011	12/13/2010	12/13/2010	12/13/2010	12/13/2010	01/17/2011	01/14/2011	01/14/2011	01/17/2011	01/17/2011	12/13/2010	01/14/2011
	Lab SDG	DE060	DE037	DE036	DE037	DE036	DE062	DE061	DE061	DE062	DE062	DE036	DE061
	Start Depth	7	0	0	0	0	4	2.5	6	2.25	7	0	4
	End Depth	8	0.5	0.5	0.5	0.5	5	3.5	7	3.25	8	0.5	5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Chrysene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	2 U	8.7	1.8 U	3.1	17 J	4.1	1.9 U	1.9 U	1.9 U	1.9	16	1.9 U
bis(2-Chloroisopropyl) ether	ug/kg	200 U	180 U	180 U	180 U	180 U	200 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	2 U	5.6	1.8 U	1.8	11 J	4.5	1.9 U	0.78 J	1.9 U	1.6 J	13	1.9 U
2,4-Dinitrophenol	ug/kg	2400 U	2100 U	2100 U	2200 U	2200 U	2400 U	2200 U	2300 U	2300 U	2300 U	2200 U	2200 U
4,6-Dinitro-2-Methylphenol	ug/kg	590 U	530 U	530 U	540 U	550 U	590 U	560 U	570 U	580 U	580 U	540 U	560 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	2 U	0.78 J	1.8 U	1.8 U	18 U	3.4	1.9 U	1.9 U	1.9 U	1.9 U	2	1.9 U
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	2 U	4.9	1.8 U	1.7 J	9.7 J	3.9	1.9 U	1.9 U	1.9 U	1.7 J	9.4	1.9 U
4-Chloro-3-Methylphenol	ug/kg	200 U	180 U	180 U	180 U	180 U	200 U	190 U	190 U	190 U	190 U	180 U	190 U
N-Nitroso-Di-N-Propylamine	ug/kg	200 U	180 U	180 U	180 U	180 U	200 U	190 U	190 U	190 U	190 U	180 U	190 U
Aniline	ug/kg	590 U	530 U	530 U	540 U	550 U	590 U	560 U	570 U	580 U	580 U	540 U	560 U
Benzoic Acid	ug/kg	590 U	530 U	530 U	540 U	550 U	590 U	560 U	570 U	580 U	580 U	540 U	560 U
Hexachloroethane	ug/kg	200 U	180 U	180 U	180 U	180 U	200 U	190 U	190 U	190 U	190 U	180 U	190 U
4-Chlorophenyl Phenylether	ug/kg	200 U	180 U	180 U	180 U	180 U	200 U	190 U	190 U	190 U	190 U	180 U	190 U
Hexachlorocyclopentadiene	ug/kg	590 U	530 U	530 U	540 U	550 U	590 U	560 U	570 U	580 U	580 U	540 U	560 U
Isophorone	ug/kg	200 U	180 U	180 U	180 U	180 U	200 U	190 U	190 U	190 U	190 U	180 U	190 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	2 U	1.8 U	1.8 U	1.8 U	18 U	0.88 J	1.9 U	1.9 U	1.9 U	1.9 U	1.1 J	1.9 U
Diethylphthalate (8270C)	ug/kg	--	--	--	--	180 U	--	--	--	--	--	--	--
Diethylphthalate (8270C SIM)	ug/kg	21 U	19 U	19 U	19 U	--	21 U	20 U	21 U	21 U	21 U	20 U	20 U
Di-n-Butylphthalate (8270C)	ug/kg	--	--	--	--	180 U	--	--	--	--	--	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	21 U	8.2 J	19 U	19 U	--	21 U	20 U	21 U	21 U	21 U	8.3 J	20 U
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	2 U	4.3	1.8 U	1.4 J	18 U	3.2	1.9 U	1.9 U	1.9 U	1.9 U	14	1.9 U
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	--	180 U	--	--	--	--	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	21 U	19 U	19 U	19 U	--	21 U	20 U	21 U	21 U	21 U	20 U	20 U
N-Nitrosodiphenylamine	ug/kg	200 U	180 U	180 U	180 U	180 U	200 U	190 U	190 U	190 U	190 U	180 U	190 U
Fluorene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Fluorene (8270C SIM)	ug/kg	2 U	1.8 U	1.8 U	1.8 U	18 U	1.8 J	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	1.9 U
Carbazole	ug/kg	200 U	180 U	180 U	180 U	180 U	200 U	190 U	190 U	190 U	190 U	180 U	190 U
Pentachlorophenol	ug/kg	590 U	530 U	530 U	540 U	550 U	590 U	560 U	570 U	580 U	580 U	540 U	560 U
2,4,6-Trichlorophenol	ug/kg	200 U	180 U	180 U	180 U	180 U	200 U	190 U	190 U	190 U	190 U	180 U	190 U
2-Nitroaniline	ug/kg	200 U	180 U	180 U	180 U	180 U	200 U	190 U	190 U	190 U	190 U	180 U	190 U
2-Nitrophenol	ug/kg	200 U	180 U	180 U	180 U	180 U	200 U	190 U	190 U	190 U	190 U	180 U	190 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	2 U	1.8 U	1.8 U	1.8 U	18 U	2 U	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	1.9 U
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene (8270C SIM)	ug/kg	2 U	1.8 U	1.8 U	1.8 U	18 U	2 U	1.9 U	1.9 U	0.89 J	1.9 U	0.78 J	1.9 U
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	2 U	1.8 U	1.8 U	1.8 U	18 U	2 U	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	1.9 U
2-Chloronaphthalene	ug/kg	200 U	180 U	180 U	180 U	180 U	200 U	190 U	190 U	190 U	190 U	180 U	190 U
3,3`-Dichlorobenzidine	ug/kg	390 U	350 U	350 UJ	360 U	370 UJ	390 UJ	370 UJ	380 UJ	390 UJ	380 UJ	360 UJ	370 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-5B

	Sample Name	SL-074-SA5B-SB-7.0-8.0	SL-075-SA5B-SS-0.0-0.5	SL-076-SA5B-SS-0.0-0.5	SL-077-SA5B-SS-0.0-0.5	SL-078-SA5B-SS-0.0-0.5	SL-078-SA5B-SB-4.0-5.0	SL-081-SA5B-SB-2.5-3.5	SL-081-SA5B-SB-6.0-7.0	SL-082-SA5B-SB-2.25-3.25	SL-082-SA5B-SB-7.0-8.0	SL-083-SA5B-SS-0.0-0.5	SL-083-SA5B-SB-4.0-5.0
	Sample Date	01/13/2011	12/13/2010	12/13/2010	12/13/2010	12/13/2010	01/17/2011	01/14/2011	01/14/2011	01/17/2011	01/17/2011	12/13/2010	01/14/2011
	Lab SDG	DE060	DE037	DE036	DE037	DE036	DE062	DE061	DE061	DE062	DE062	DE036	DE061
	Start Depth	7	0	0	0	0	4	2.5	6	2.25	7	0	4
	End Depth	8	0.5	0.5	0.5	0.5	5	3.5	7	3.25	8	0.5	5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Benzidine	ug/kg	3900 U	3500 U	3500 U	3600 U	3700 U	3900 U	3700 U	3800 U	3900 U	3800 U	3600 U	3700 U
2-Methylphenol	ug/kg	200 U	180 U	180 U	180 U	180 U	200 U	190 U	190 U	190 U	190 U	180 U	190 U
2-Chlorophenol	ug/kg	200 U	180 U	180 U	180 U	180 U	200 U	190 U	190 U	190 U	190 U	180 U	190 U
2,4,5-Trichlorophenol	ug/kg	200 U	180 U	180 U	180 U	180 U	200 U	190 U	190 U	190 U	190 U	180 U	190 U
3-Nitroaniline	ug/kg	200 U	180 U	180 U	180 U	180 U	200 U	190 U	190 U	190 U	190 U	180 U	190 U
Benzyl Alcohol	ug/kg	590 U	530 U	530 U	540 U	550 U	590 U	560 U	570 U	580 U	580 U	540 U	560 U
2,6-Dinitrotoluene	ug/kg	200 U	180 U	180 U	180 U	180 U	200 U	190 U	190 U	190 U	190 U	180 U	190 U

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Appendix A6
Semivolatile Organics - Validated Data
HSA-5B

	Sample Name	SL-084-SA5B-SS-0.0-0.5	SL-085-SA5B-SS-0.0-0.5	SL-085-SA5B-SB-3.0-4.0	SL-086-SA5B-SS-0.0-0.5	SL-086-SA5B-SB-4.0-5.0	SL-087-SA5B-SS-0.0-0.5	SL-087-SA5B-SB-3.0-4.0	SL-088-SA5B-SB-3.0-4.0	SL-089-SA5B-SS-0.0-0.5	SL-089-SA5B-SB-4.0-5.0	SL-090-SA5B-SB-2.5-3.5	SL-091-SA5B-SS-0.0-0.5
	Sample Date	12/13/2010	12/13/2010	01/11/2011	12/13/2010	01/11/2011	12/13/2010	01/11/2011	01/11/2011	12/13/2010	01/11/2011	01/11/2011	12/13/2010
	Lab SDG	DE036	DE037	DE057	DE036	DE057	DE037	DE057	DE057	DE036	DE057	DE057	DE037
	Start Depth	0	0	3	0	4	0	3	3	0	4	2.5	0
	End Depth	0.5	0.5	4	0.5	5	0.5	4	4	0.5	5	3.5	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
N-Nitrosodimethylamine (1625C)	ng/kg	--	108 J	22.1 J	--	--	--	26.8 J	37.2 U	--	63.5	54.6	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.8 U	1.8 U	1.8 U	1.8 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
2,4-Dinitrotoluene	ug/kg	180 U	180 U	180 U	180 U	190 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U
Nitrobenzene	ug/kg	180 U	180 U	180 U	180 U	190 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U
1,4-Dichlorobenzene	ug/kg	180 U	180 U	180 U	180 U	190 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U
1,2,4-Trichlorobenzene	ug/kg	180 U	180 U	180 U	180 U	190 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U
1,3-Dichlorobenzene	ug/kg	180 U	180 U	180 U	180 U	190 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U
Hexachlorobutadiene	ug/kg	180 U	180 U	180 U	180 U	190 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U
1,2-Dichlorobenzene	ug/kg	180 U	180 U	180 U	180 U	190 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U
4-Nitroaniline	ug/kg	180 U	180 U	180 U	180 U	190 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U
4-Nitrophenol	ug/kg	550 U	540 U	540 U	530 U	560 U	550 U	540 U	560 U	540 U	570 U	550 U	540 U
4-Bromophenyl Phenyl Ether	ug/kg	180 U	180 U	180 U	180 U	190 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U
2,4-Dimethylphenol	ug/kg	180 U	180 U	180 U	180 U	190 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U
4-Methylphenol	ug/kg	180 U	180 U	180 U	180 U	190 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U
4-Chloroaniline	ug/kg	180 U	180 U	180 U	180 U	190 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U
3,5-Dimethylphenol	ug/kg	180 U	180 U	180 U	180 U	190 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U
Phenol	ug/kg	180 U	180 U	180 U	180 U	190 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U
Bis(2-Chloroethyl) ether	ug/kg	180 U	180 U	180 U	180 U	190 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U
Bis(2-Chloroethoxy) methane	ug/kg	180 U	180 U	180 U	180 U	190 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	25 J	--	--	350 U	--	360 U	--	29 J	330 J	--	--	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	--	44	20 U	--	20 U	--	6.5 J	--	--	21 U	20 U	25 U
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	20 U	19 U	20 U	19 U	20 U	20 U	19 U	20 U	10 J	21 U	20 U	20 U
Hexachlorobenzene	ug/kg	180 U	180 U	180 U	180 U	190 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	0.5 J	1.8 U	0.43 J	1.8 U	1.8 U
2,4-Dichlorophenol	ug/kg	180 U	180 U	180 U	180 U	190 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U
1,2-Diphenylhydrazine	ug/kg	180 U	180 U	180 U	180 U	190 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U
Pyrene (8270C)	ug/kg	23 J	--	--	--	--	--	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	--	2.1	1.8 U	1.8 U	1.9 U	3.6	1.1 J	1.9 U	3.9	1.9 U	1.8 U	2
Dimethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Dimethylphthalate (8270C SIM)	ug/kg	20 U	19 U	20 U	19 U	20 U	20 U	19 U	20 U	19 U	21 U	20 U	20 U
Dibenzofuran	ug/kg	180 U	180 U	180 U	180 U	190 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	1.5 J	2.4	1.8 U	1.8 U	1.9 U	1.8	2	1.9 U	2.5	1.9 U	1.8 U	1.5 J
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	1.2 J	0.99 J	1.8 U	1.8 U	1.9 U	0.91 J	1.8 U	1.9 U	1.8	1.9 U	1.8 U	1.8 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	4.8	3.8	1.8 U	1.8 U	1.9 U	4.8	1.4 J	0.83 J	9.2	1.9 U	1.8 U	3.4
Fluoranthene (8270C)	ug/kg	22 J	--	--	--	--	--	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	--	2.7	1.8 U	1.8 U	1.9 U	4	1.8 U	1.9 U	4	1.9 U	1.8 U	1.8
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	1.6 J	1.1 J	1.8 U	1.8 U	1.9 U	1.4 J	1.8 U	1.9 U	7.3	1.9 U	1.8 U	1.8 U
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	1.8 U	1.8 U	1.8 U	1.8 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

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Appendix A6
Semivolatile Organics - Validated Data
HSA-5B

	Sample Name	SL-084-SA5B-SS-0.0-0.5	SL-085-SA5B-SS-0.0-0.5	SL-085-SA5B-SB-3.0-4.0	SL-086-SA5B-SS-0.0-0.5	SL-086-SA5B-SB-4.0-5.0	SL-087-SA5B-SS-0.0-0.5	SL-087-SA5B-SB-3.0-4.0	SL-088-SA5B-SB-3.0-4.0	SL-089-SA5B-SS-0.0-0.5	SL-089-SA5B-SB-4.0-5.0	SL-090-SA5B-SB-2.5-3.5	SL-091-SA5B-SS-0.0-0.5
	Sample Date	12/13/2010	12/13/2010	01/11/2011	12/13/2010	01/11/2011	12/13/2010	01/11/2011	01/11/2011	12/13/2010	01/11/2011	01/11/2011	12/13/2010
	Lab SDG	DE036	DE037	DE057	DE036	DE057	DE037	DE057	DE057	DE036	DE057	DE057	DE037
	Start Depth	0	0	3	0	4	0	3	3	0	4	2.5	0
	End Depth	0.5	0.5	4	0.5	5	0.5	4	4	0.5	5	3.5	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Chrysene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	3.9	2.8	1.8 U	0.45 J	1.9 U	3.2	1.5 J	0.63 J	6.5	0.65 J	1.8 U	2.8
bis(2-Chloroisopropyl) ether	ug/kg	180 U	180 U	180 U	180 U	190 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	2.7	1.6 J	1.8 U	1.8 U	1.9 U	2.8	1.1 J	1.9 U	3.4	1.9 U	1.8 U	1.6 J
2,4-Dinitrophenol	ug/kg	2200 U	2100 U	2200 U	2100 U	2200 U	2200 U	2200 U	2200 U	2100 U	2300 U	2200 U	2200 U
4,6-Dinitro-2-Methylphenol	ug/kg	550 U	540 U	540 U	530 U	560 U	550 U	540 U	560 U	540 U	570 U	550 U	540 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	1.9 U	1.8 U	1.8 U	1.9 U	1 J	1.9 U	1.8 U	1.8 U
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	2.3	1 J	1.8 U	1.8 U	1.9 U	3.4	1.8 U	1.9 U	2.4	1.9 U	1.8 U	1.1 J
4-Chloro-3-Methylphenol	ug/kg	180 U	180 U	180 U	180 U	190 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U
N-Nitroso-Di-N-Propylamine	ug/kg	180 U	180 U	180 U	180 U	190 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U
Aniline	ug/kg	550 U	540 U	540 U	530 U	560 U	550 U	540 U	560 U	540 U	570 U	550 U	540 U
Benzoic Acid	ug/kg	550 U	540 U	540 U	530 U	560 U	550 U	540 U	560 U	540 U	570 U	550 U	540 U
Hexachloroethane	ug/kg	180 U	180 U	180 U	180 U	190 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U
4-Chlorophenyl Phenylether	ug/kg	180 U	180 U	180 U	180 U	190 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U
Hexachlorocyclopentadiene	ug/kg	550 U	540 U	540 U	530 U	560 U	550 U	540 U	560 U	540 U	570 U	550 U	540 U
Isophorone	ug/kg	180 U	180 U	180 U	180 U	190 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	1.8 U	1.8 U	1.8 U	1.8 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
Diethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Diethylphthalate (8270C SIM)	ug/kg	20 U	19 U	20 U	19 U	20 U	20 U	19 U	20 U	19 U	21 U	20 U	20 U
Di-n-Butylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	210	--	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	20 U	9 J	20 U	19 U	20 U	20 U	19 U	20 U	--	21 U	8.5 J	20 U
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	0.78 J	1.3 J	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	1.9 U	1.8	1.9 U	1.8 U	1.1 J
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	99000	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	20 U	14 J	20 U	19 U	20 U	14 J	19 U	20 U	--	21 U	20 U	20 U
N-Nitrosodiphenylamine	ug/kg	180 U	180 U	180 U	180 U	190 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U
Fluorene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Fluorene (8270C SIM)	ug/kg	1.8 U	1.8 U	1.8 U	1.8 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
Carbazole	ug/kg	180 U	180 U	180 U	180 U	190 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U
Pentachlorophenol	ug/kg	550 U	540 U	540 U	530 U	560 U	550 U	540 U	560 U	540 U	570 U	550 U	540 U
2,4,6-Trichlorophenol	ug/kg	180 U	180 U	180 U	180 U	190 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U
2-Nitroaniline	ug/kg	180 U	180 U	180 U	180 U	190 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U
2-Nitrophenol	ug/kg	180 U	180 U	180 U	180 U	190 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	1.9 U	1.8 U	1.9 U	1.8 U	1.8 U
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene (8270C SIM)	ug/kg	1.8 U	1.8 U	1.8 U	0.89 J	1.9 U	1.8 U	1.8 U	1.9 U	1.8 U	1.9 U	1.8 U	0.74 J
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	1.8 U	1.8 U	1.8 U	1.8 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
2-Chloronaphthalene	ug/kg	180 U	180 U	180 U	180 U	190 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U
3,3`-Dichlorobenzidine	ug/kg	360 UJ	360 U	360 U	350 UJ	370 U	360 U	360 U	370 U	360 UJ	380 U	360 U	360 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-5B

	Sample Name	SL-084-SA5B-SS-0.0-0.5	SL-085-SA5B-SS-0.0-0.5	SL-085-SA5B-SB-3.0-4.0	SL-086-SA5B-SS-0.0-0.5	SL-086-SA5B-SB-4.0-5.0	SL-087-SA5B-SS-0.0-0.5	SL-087-SA5B-SB-3.0-4.0	SL-088-SA5B-SB-3.0-4.0	SL-089-SA5B-SS-0.0-0.5	SL-089-SA5B-SB-4.0-5.0	SL-090-SA5B-SB-2.5-3.5	SL-091-SA5B-SS-0.0-0.5
	Sample Date	12/13/2010	12/13/2010	01/11/2011	12/13/2010	01/11/2011	12/13/2010	01/11/2011	01/11/2011	12/13/2010	01/11/2011	01/11/2011	12/13/2010
	Lab SDG	DE036	DE037	DE057	DE036	DE057	DE037	DE057	DE057	DE036	DE057	DE057	DE037
	Start Depth	0	0	3	0	4	0	3	3	0	4	2.5	0
	End Depth	0.5	0.5	4	0.5	5	0.5	4	4	0.5	5	3.5	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Benzidine	ug/kg	3600 U	3600 U	3600 U	3500 U	3700 U	3600 U	3600 U	3700 U	3600 U	3800 U	3600 U	3600 U
2-Methylphenol	ug/kg	180 U	180 U	180 U	180 U	190 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U
2-Chlorophenol	ug/kg	180 U	180 U	180 U	180 U	190 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U
2,4,5-Trichlorophenol	ug/kg	180 U	180 U	180 U	180 U	190 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U
3-Nitroaniline	ug/kg	180 U	180 U	180 U	180 U	190 U	180 U	180 U	190 U	180 U	190 U	180 U	180 U
Benzyl Alcohol	ug/kg	550 U	540 U	540 U	530 U	560 U	550 U	540 U	560 U	540 U	570 U	550 U	540 U
2,6-Dinitrotoluene	ug/kg	180 U	180 U	180 U	180 U	190 U	180 U	180 U	190 U	180 U	190 U	180 U	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-5B

	Sample Name	SL-091-SA5B-SB-4.0-5.0	SL-092-SA5B-SS-0.0-0.5	SL-092-SA5B-SB-4.0-5.0	SL-093-SA5B-SB-3.0-4.0	SL-094-SA5B-SB-4.0-5.0	SL-095-SA5B-SS-0.0-0.5	SL-095-SA5B-SB-4.0-5.0	SL-096-SA5B-SB-2.0-3.0	SL-097-SA5B-SB-4.0-5.0	SL-097-SA5B-SB-7.0-8.0	SL-098-SA5B-SS-0.0-0.5	SL-098-SA5B-SB-4.0-5.0
	Sample Date	01/11/2011	12/13/2010	01/12/2011	01/11/2011	01/11/2011	12/13/2010	01/12/2011	01/12/2011	01/12/2011	01/12/2011	12/14/2010	01/12/2011
	Lab SDG	DE057	DE036	DE059	DE057	DE057	DE037	DE058	DE058	DE059	DE059	DE038	DE059
	Start Depth	4	0	4	3	4	0	4	2	4	7	0	4
	End Depth	5	0.5	5	4	5	0.5	5	3	5	8	0.5	5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
N-Nitrosodimethylamine (1625C)	ng/kg	48.8	--	30.6 J	--	--	--	--	--	30 J	21.9 J	--	40
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.9 U	1.9 U	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U	1.9 U	1.7 U	1.9 U
2,4-Dinitrotoluene	ug/kg	190 U	190 U	190 U	180 U	190 U	180 U	190 U	180 U	190 U	190 U	170 U	190 U
Nitrobenzene	ug/kg	190 U	190 U	190 U	180 U	190 U	180 U	190 U	180 U	190 U	190 U	170 U	190 U
1,4-Dichlorobenzene	ug/kg	190 U	190 U	190 U	180 U	190 U	180 U	190 U	180 U	190 U	190 U	170 U	190 U
1,2,4-Trichlorobenzene	ug/kg	190 U	190 U	190 U	180 U	190 U	180 U	190 U	180 U	190 U	190 U	170 U	190 U
1,3-Dichlorobenzene	ug/kg	190 U	190 U	190 U	180 U	190 U	180 U	190 U	180 U	190 U	190 U	170 U	190 U
Hexachlorobutadiene	ug/kg	190 U	190 U	190 U	180 U	190 U	180 U	190 U	180 U	190 U	190 U	170 U	190 U
1,2-Dichlorobenzene	ug/kg	190 U	190 U	190 U	180 U	190 U	180 U	190 U	180 U	190 U	190 U	170 U	190 U
4-Nitroaniline	ug/kg	190 U	190 U	190 U	180 U	190 U	180 U	190 U	180 U	190 U	190 U	170 U	190 U
4-Nitrophenol	ug/kg	570 U	560 U	570 U	550 U	580 U	530 U	570 U	550 U	570 U	570 U	520 U	570 U
4-Bromophenyl Phenyl Ether	ug/kg	190 U	190 U	190 U	180 U	190 U	180 U	190 U	180 U	190 U	190 U	170 U	190 U
2,4-Dimethylphenol	ug/kg	190 U	190 U	190 U	180 U	190 U	180 U	190 U	180 U	190 U	190 U	170 U	190 U
4-Methylphenol	ug/kg	190 U	190 U	190 U	180 U	190 U	180 U	190 U	180 U	190 U	190 U	170 U	190 U
4-Chloroaniline	ug/kg	190 U	190 U	190 U	180 U	190 U	180 U	190 U	180 U	190 U	190 U	170 U	190 U
3,5-Dimethylphenol	ug/kg	190 U	190 U	190 U	180 U	190 U	180 U	190 U	180 U	190 U	190 U	170 U	190 U
Phenol	ug/kg	190 U	190 U	190 U	180 U	190 U	180 U	190 U	180 U	190 U	190 U	170 U	190 U
Bis(2-Chloroethyl) ether	ug/kg	190 U	190 U	190 U	180 U	190 U	180 U	190 U	180 U	190 U	190 U	170 U	190 U
Bis(2-Chloroethoxy) methane	ug/kg	190 U	190 U	190 U	180 U	190 U	180 U	190 U	180 U	190 U	190 U	170 U	190 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	--	380 U	--	--	--	--	--	--	--	--	340 U	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	21 U	--	20 U	20 U	21 U	19 U	21 U	20 U	21 U	21 U	--	21 U
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	21 U	20 U	20 UJ	20 U	21 U	19 U	21 U	20 U	21 U	21 U	19 U	21 U
Hexachlorobenzene	ug/kg	190 U	190 U	190 U	180 U	190 U	180 U	190 U	180 U	190 U	190 U	170 U	190 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U	1.9 U	1.7 U	1.9 U
2,4-Dichlorophenol	ug/kg	190 U	190 U	190 U	180 U	190 U	180 U	190 U	180 U	190 U	190 U	170 U	190 U
1,2-Diphenylhydrazine	ug/kg	190 U	190 U	190 U	180 U	190 U	180 U	190 U	180 U	190 U	190 U	170 U	190 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.9 U	1.8 U	1.9 U	2.9	1.9 U	1.8 U	1.9 U	1.9 U	2.9	1.9 U
Dimethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Dimethylphthalate (8270C SIM)	ug/kg	21 U	20 U	20 U	20 U	21 U	19 U	21 U	20 U	21 U	21 U	19 U	21 U
Dibenzofuran	ug/kg	190 U	190 U	190 U	180 U	190 U	180 U	190 U	180 U	190 U	190 U	170 U	190 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9	1.9 U	1.8 U	1.9 U	1.9 U	1.1 J	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	1.9 U	1.9 U	1.8 U	1.9 U	1.4 J	1.9 U	1.8 U	1.9 U	1.9 U	0.78 J	1.9 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	1.9 U	1.9 U	0.93 J	1.8 U	1.9 U	5.6	1.9 UJ	1.8 U	1.9 U	1.9 U	2.7	1.9 U
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.9 U	1.8 U	1.9 U	3.2	1.9 U	1.8 U	1.9 U	1.9 U	2.7	1.9 U
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9	1.9 U	1.8 U	1.9 U	1.9 U	1.2 J	1.9 U
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U	1.9 U	1.7 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-5B

	Sample Name	SL-091-SA5B-SB-4.0-5.0	SL-092-SA5B-SS-0.0-0.5	SL-092-SA5B-SB-4.0-5.0	SL-093-SA5B-SB-3.0-4.0	SL-094-SA5B-SB-4.0-5.0	SL-095-SA5B-SS-0.0-0.5	SL-095-SA5B-SB-4.0-5.0	SL-096-SA5B-SB-2.0-3.0	SL-097-SA5B-SB-4.0-5.0	SL-097-SA5B-SB-7.0-8.0	SL-098-SA5B-SS-0.0-0.5	SL-098-SA5B-SB-4.0-5.0
	Sample Date	01/11/2011	12/13/2010	01/12/2011	01/11/2011	01/11/2011	12/13/2010	01/12/2011	01/12/2011	01/12/2011	01/12/2011	12/14/2010	01/12/2011
	Lab SDG	DE057	DE036	DE059	DE057	DE057	DE037	DE058	DE058	DE059	DE059	DE038	DE059
	Start Depth	4	0	4	3	4	0	4	2	4	7	0	4
	End Depth	5	0.5	5	4	5	0.5	5	3	5	8	0.5	5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Chrysene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.9 UJ	1.8 U	1.9 U	3.4	1.9 UJ	1.8 U	1.9 U	1.9 U	2.2	1.9 U
bis(2-Chloroisopropyl) ether	ug/kg	190 U	190 U	190 U	180 U	190 U	180 U	190 U	180 U	190 U	190 U	170 U	190 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.9 U	1.8 U	1.9 U	3	1.9 U	1.8 U	1.9 U	1.9 U	1.7	1.9 U
2,4-Dinitrophenol	ug/kg	2300 U	2300 U	1100 U	2200 U	2300 U	2100 U	2300 U	2200 U	1100 U	1100 U	2100 U	1100 U
4,6-Dinitro-2-Methylphenol	ug/kg	570 U	560 U	570 UJ	550 U	580 U	530 U	570 U	550 U	570 UJ	570 UJ	520 U	570 UJ
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U	1.9 U	1.7 U	1.9 U
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.9 U	1.8 U	1.9 U	2.2	1.9 U	1.8 U	1.9 U	1.9 U	1.6 J	1.9 U
4-Chloro-3-Methylphenol	ug/kg	190 U	190 U	190 U	180 U	190 U	180 U	190 U	180 U	190 U	190 U	170 U	190 U
N-Nitroso-Di-N-Propylamine	ug/kg	190 U	190 U	190 U	180 U	190 U	180 U	190 U	180 U	190 U	190 U	170 U	190 U
Aniline	ug/kg	570 U	560 U	570 U	550 U	580 U	530 U	570 U	550 U	570 U	570 U	520 U	570 U
Benzoic Acid	ug/kg	570 U	560 U	570 U	550 U	580 U	530 U	570 U	550 U	570 U	570 U	520 U	570 U
Hexachloroethane	ug/kg	190 U	190 U	190 U	180 U	190 U	180 U	190 U	180 U	190 U	190 U	170 U	190 U
4-Chlorophenyl Phenylether	ug/kg	190 U	190 U	190 U	180 U	190 U	180 U	190 U	180 U	190 U	190 U	170 U	190 U
Hexachlorocyclopentadiene	ug/kg	570 U	560 U	570 U	550 U	580 U	530 U	570 U	550 U	570 U	570 U	520 U	570 U
Isophorone	ug/kg	190 U	190 U	190 U	180 U	190 U	180 U	190 U	180 U	190 U	190 U	170 U	190 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U	1.9 U	1.7 U	1.9 U
Diethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Diethylphthalate (8270C SIM)	ug/kg	21 U	20 U	20 U	20 U	21 U	19 U	21 U	20 U	21 U	21 U	19 U	21 U
Di-n-Butylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	21 U	20 U	20 U	20 U	21 U	19 U	21 U	20 U	21 U	21 U	7 J	21 U
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.9 U	1.8 U	1.9 U	1.2 J	1.9 U	1.8 U	1.9 U	1.9 U	0.99 J	1.9 U
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	21 U	20 U	20 U	20 U	21 U	19 U	21 U	20 U	21 U	21 U	19 U	21 U
N-Nitrosodiphenylamine	ug/kg	190 U	190 U	190 U	180 U	190 U	180 U	190 U	180 U	190 U	190 U	170 U	190 U
Fluorene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Fluorene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U	1.9 U	1.7 U	1.9 U
Carbazole	ug/kg	190 U	190 U	190 U	180 U	190 U	180 U	190 U	180 U	190 U	190 U	170 U	190 U
Pentachlorophenol	ug/kg	570 U	560 U	570 U	550 U	580 U	530 U	570 U	550 U	570 U	570 U	520 U	570 U
2,4,6-Trichlorophenol	ug/kg	190 U	190 U	190 U	180 U	190 U	180 U	190 U	180 U	190 U	190 U	170 U	190 U
2-Nitroaniline	ug/kg	190 U	190 U	190 U	180 U	190 U	180 U	190 U	180 U	190 U	190 U	170 U	190 U
2-Nitrophenol	ug/kg	190 U	190 U	190 U	180 U	190 U	180 U	190 U	180 U	190 U	190 U	170 U	190 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U	1.9 U	1.7 U	1.9 U
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene (8270C SIM)	ug/kg	1.9 U	0.78 J	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U	1.9 U	1.7 U	1.9 U
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U	1.9 U	1.7 U	1.9 U
2-Chloronaphthalene	ug/kg	190 U	190 U	190 U	180 U	190 U	180 U	190 U	180 U	190 U	190 U	170 U	190 U
3,3`-Dichlorobenzidine	ug/kg	380 U	380 UJ	380 U	370 U	380 U	350 U	380 U	370 U	380 U	380 U	340 U	380 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-5B

	Sample Name	SL-091-SA5B-SB-4.0-5.0	SL-092-SA5B-SS-0.0-0.5	SL-092-SA5B-SB-4.0-5.0	SL-093-SA5B-SB-3.0-4.0	SL-094-SA5B-SB-4.0-5.0	SL-095-SA5B-SS-0.0-0.5	SL-095-SA5B-SB-4.0-5.0	SL-096-SA5B-SB-2.0-3.0	SL-097-SA5B-SB-4.0-5.0	SL-097-SA5B-SB-7.0-8.0	SL-098-SA5B-SS-0.0-0.5	SL-098-SA5B-SB-4.0-5.0
	Sample Date	01/11/2011	12/13/2010	01/12/2011	01/11/2011	01/11/2011	12/13/2010	01/12/2011	01/12/2011	01/12/2011	01/12/2011	12/14/2010	01/12/2011
	Lab SDG	DE057	DE036	DE059	DE057	DE057	DE037	DE058	DE058	DE059	DE059	DE038	DE059
	Start Depth	4	0	4	3	4	0	4	2	4	7	0	4
	End Depth	5	0.5	5	4	5	0.5	5	3	5	8	0.5	5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Benzidine	ug/kg	3800 U	3800 U	3800 U	3700 U	3800 U	3500 U	3800 U	3700 U	3800 U	3800 U	3400 U	3800 U
2-Methylphenol	ug/kg	190 U	190 U	190 U	180 U	190 U	180 U	190 U	180 U	190 U	190 U	170 U	190 U
2-Chlorophenol	ug/kg	190 U	190 U	190 U	180 U	190 U	180 U	190 U	180 U	190 U	190 U	170 U	190 U
2,4,5-Trichlorophenol	ug/kg	190 U	190 U	190 U	180 U	190 U	180 U	190 U	180 U	190 U	190 U	170 U	190 U
3-Nitroaniline	ug/kg	190 U	190 U	190 U	180 U	190 U	180 U	190 U	180 U	190 U	190 U	170 U	190 U
Benzyl Alcohol	ug/kg	570 U	560 U	570 U	550 U	580 U	530 U	570 U	550 U	570 U	570 U	520 U	570 U
2,6-Dinitrotoluene	ug/kg	190 U	190 U	190 U	180 U	190 U	180 U	190 U	180 U	190 U	190 U	170 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-5B

	Sample Name	SL-099-SA5B-SB-4.0-5.0	SL-100-SA5B-SS-0.0-0.5	SL-100-SA5B-SB-4.0-5.0	SL-101-SA5B-SS-0.0-0.5	SL-101-SA5B-SB-4.0-5.0	SL-101-SA5B-SB-7.5-8.5	SL-102-SA5B-SS-0.0-0.5	SL-103-SA5B-SS-0.0-0.5	SL-103-SA5B-SB-4.0-5.0	SL-103-SA5B-SB-9.0-10.0	SL-104-SA5B-SB-4.0-5.0	SL-104-SA5B-SB-9.0-10.0
	Sample Date	01/11/2011	12/22/2010	01/11/2011	12/22/2010	01/17/2011	01/17/2011	12/22/2010	12/13/2010	01/12/2011	01/12/2011	01/12/2011	01/12/2011
	Lab SDG	DE057	DE051	DE057	DE051	DE062	DE062	DE051	DE036	DE059	DE059	DE059	DE059
	Start Depth	4	0	4	0	4	7.5	0	0	4	9	4	9
	End Depth	5	0.5	5	0.5	5	8.5	0.5	0.5	5	10	5	10
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
N-Nitrosodimethylamine (1625C)	ng/kg	23 J	--	36.5 U	--	73.1	19.7 J	--	--	38.4 U	38.2 U	30.2 J	24.3 J
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.9 U	1.9 U	1.8 U	2 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
2,4-Dinitrotoluene	ug/kg	190 U	190 U	180 U	200 U	190 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U
Nitrobenzene	ug/kg	190 U	190 U	180 U	200 U	190 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U
1,4-Dichlorobenzene	ug/kg	190 U	190 U	180 U	200 U	190 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U
1,2,4-Trichlorobenzene	ug/kg	190 U	190 U	180 U	200 U	190 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U
1,3-Dichlorobenzene	ug/kg	190 U	190 U	180 U	200 U	190 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U
Hexachlorobutadiene	ug/kg	190 U	190 U	180 U	200 U	190 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U
1,2-Dichlorobenzene	ug/kg	190 U	190 U	180 U	200 U	190 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U
4-Nitroaniline	ug/kg	190 U	190 U	180 U	200 U	190 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U
4-Nitrophenol	ug/kg	570 U	580 U	550 U	590 U	570 U	550 U	560 U	560 U	580 U	570 U	560 U	560 U
4-Bromophenyl Phenyl Ether	ug/kg	190 U	190 U	180 U	200 U	190 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U
2,4-Dimethylphenol	ug/kg	190 U	190 U	180 U	200 U	190 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U
4-Methylphenol	ug/kg	190 U	190 U	180 U	200 U	190 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U
4-Chloroaniline	ug/kg	190 U	190 U	180 U	200 U	190 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U
3,5-Dimethylphenol	ug/kg	190 U	190 U	180 U	200 U	190 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U
Phenol	ug/kg	190 U	190 U	180 U	200 U	190 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U
Bis(2-Chloroethyl) ether	ug/kg	190 U	190 U	180 U	200 U	190 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U
Bis(2-Chloroethoxy) methane	ug/kg	190 U	190 U	180 U	200 U	190 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	--	20 J	--	58 J	--	--	--	380 U	--	--	--	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	21 U	--	20 U	--	21 U	20 U	20 U	--	21 U	26	11 J	20 U
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	21 U	21 U	20 U	21 U	21 U	20 U	20 U	20 U	21 U	21 U	20 U	20 U
Hexachlorobenzene	ug/kg	190 U	190 U	180 U	200 U	190 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	1.9 U	0.81 J	1.8 U	2 U	1.9 U	0.52 J	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
2,4-Dichlorophenol	ug/kg	190 U	190 U	180 U	200 U	190 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U
1,2-Diphenylhydrazine	ug/kg	190 U	190 U	180 U	200 U	190 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	1.9 U	12 J	1.8 U	1.2 J	1.9 U	0.8 J	1.9 U	1.9	1.9	1.9 U	0.83 J	1.9 U
Dimethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Dimethylphthalate (8270C SIM)	ug/kg	21 U	21 U	20 U	21 U	21 U	20 U	20 U	20 U	21 U	21 U	20 U	20 U
Dibenzofuran	ug/kg	190 U	190 U	180 U	200 U	190 U	180 U	190 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	1.9 U	3 J	1.8 U	2 U	1.9 U	0.86 J	1.9 U	1.9 U	1.3 J	1.9 U	2	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	2.6 J	1.8 U	2 U	1.9 U	0.78 J	1.9 U	0.96 J	0.92 J	1.9 U	1.9 U	1.9 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	1.9 U	9.2 J	1.8 U	0.81 J	1.9 U	0.9 J	1.9 U	2	5.4	2.4	5	0.84 J
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	1.9 U	12 J	1.8 U	1.6 J	1.9 U	0.78 J	1.9 U	2.5	2.3	1.9 U	0.78 J	1.9 U
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	1.9 U	3.6 J	1.8 U	2 U	1.9 U	0.78 J	1.9 U	1.9 U	1.7 J	1.9 U	1.9 U	1.9 U
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.8 U	2 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

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-5B

	Sample Name	SL-099-SA5B-SB-4.0-5.0	SL-100-SA5B-SS-0.0-0.5	SL-100-SA5B-SB-4.0-5.0	SL-101-SA5B-SS-0.0-0.5	SL-101-SA5B-SB-4.0-5.0	SL-101-SA5B-SB-7.5-8.5	SL-102-SA5B-SS-0.0-0.5	SL-103-SA5B-SS-0.0-0.5	SL-103-SA5B-SB-4.0-5.0	SL-103-SA5B-SB-9.0-10.0	SL-104-SA5B-SB-4.0-5.0	SL-104-SA5B-SB-9.0-10.0
	Sample Date	01/11/2011	12/22/2010	01/11/2011	12/22/2010	01/17/2011	01/17/2011	12/22/2010	12/13/2010	01/12/2011	01/12/2011	01/12/2011	01/12/2011
	Lab SDG	DE057	DE051	DE057	DE051	DE062	DE062	DE051	DE036	DE059	DE059	DE059	DE059
	Start Depth	4	0	4	0	4	7.5	0	0	4	9	4	9
	End Depth	5	0.5	5	0.5	5	8.5	0.5	0.5	5	10	5	10
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Chrysene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	1.9 U	6.8 J	1.8 U	0.67 J	1.9 U	0.66 J	1.9 U	1.7 J	2	0.94 J	0.9 J	1.9 U
bis(2-Chloroisopropyl) ether	ug/kg	190 U	190 U	180 U	200 U	190 U	180 U	190 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 U	6.1 J	1.8 U	2 U	1.9 U	0.74 J	1.9 U	0.88 J	2.3	1.9 U	1.2 J	1.9 U
2,4-Dinitrophenol	ug/kg	2300 U	2300 U	2200 U	2400 U	2300 U	2200 U	2300 U	2300 U	1200 U	1100 U	1100 U	1100 U
4,6-Dinitro-2-Methylphenol	ug/kg	570 U	580 U	550 U	590 U	570 U	550 U	560 U	560 U	580 UJ	570 UJ	560 UJ	560 UJ
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	1.9 U	0.8 J	1.8 U	2 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
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	1.9 U	7 J	1.8 U	2 U	1.9 U	0.76 J	1.9 U	1.9 U	1.6 J	1.9 U	1.9 U	1.9 U
4-Chloro-3-Methylphenol	ug/kg	190 U	190 U	180 U	200 U	190 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U
N-Nitroso-Di-N-Propylamine	ug/kg	190 U	190 U	180 U	200 U	190 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U
Aniline	ug/kg	570 U	580 U	550 U	590 U	570 U	550 U	560 U	560 U	580 U	570 U	560 U	560 U
Benzoic Acid	ug/kg	570 U	580 U	550 U	590 U	570 U	550 U	560 U	560 U	580 U	570 U	560 U	560 U
Hexachloroethane	ug/kg	190 U	190 U	180 U	200 U	190 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U
4-Chlorophenyl Phenylether	ug/kg	190 U	190 U	180 U	200 U	190 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U
Hexachlorocyclopentadiene	ug/kg	570 U	580 U	550 U	590 U	570 U	550 U	560 U	560 U	580 U	570 U	560 U	560 U
Isophorone	ug/kg	190 U	190 U	180 U	200 U	190 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.8 U	2 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
Diethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Diethylphthalate (8270C SIM)	ug/kg	21 U	21 U	20 U	21 U	21 U	20 U	7.7 J	20 U	21 U	21 U	20 U	20 U
Di-n-Butylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	21 U	10 J	20 U	21 U	21 U	20 U	7.2 J	20 U	21 U	21 U	20 U	20 U
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	1.9 U	3.5 J	1.8 U	1.6 J	1.9 U	0.88 J	1.9 U	1.3 J	1 J	1.9 U	1.9 U	1.9 U
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	21 U	21 U	20 U	21 U	21 U	20 U	20 U	20 U	21 U	21 U	20 U	20 U
N-Nitrosodiphenylamine	ug/kg	190 U	190 U	180 U	200 U	190 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U
Fluorene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Fluorene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.8 U	2 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
Carbazole	ug/kg	190 U	190 U	180 U	200 U	190 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U
Pentachlorophenol	ug/kg	570 U	580 U	550 U	590 U	570 U	550 U	560 U	560 U	580 U	570 U	560 U	560 U
2,4,6-Trichlorophenol	ug/kg	190 U	190 U	180 U	200 U	190 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U
2-Nitroaniline	ug/kg	190 U	190 U	180 U	200 U	190 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U
2-Nitrophenol	ug/kg	190 U	190 U	180 U	200 U	190 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.8 U	2 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
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.8 U	2 U	1.9 U	1.8 U	1.9 U	0.91 J	1.9 U	1.9 U	1.9 U	1.9 U
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.8 U	2 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
2-Chloronaphthalene	ug/kg	190 U	190 U	180 U	200 U	190 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U
3,3`-Dichlorobenzidine	ug/kg	380 U	390 U	370 U	390 U	380 UJ	360 UJ	380 U	380 UJ	380 U	380 U	370 U	370 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-5B

	Sample Name	SL-099-SA5B-SB-4.0-5.0	SL-100-SA5B-SS-0.0-0.5	SL-100-SA5B-SB-4.0-5.0	SL-101-SA5B-SS-0.0-0.5	SL-101-SA5B-SB-4.0-5.0	SL-101-SA5B-SB-7.5-8.5	SL-102-SA5B-SS-0.0-0.5	SL-103-SA5B-SS-0.0-0.5	SL-103-SA5B-SB-4.0-5.0	SL-103-SA5B-SB-9.0-10.0	SL-104-SA5B-SB-4.0-5.0	SL-104-SA5B-SB-9.0-10.0
	Sample Date	01/11/2011	12/22/2010	01/11/2011	12/22/2010	01/17/2011	01/17/2011	12/22/2010	12/13/2010	01/12/2011	01/12/2011	01/12/2011	01/12/2011
	Lab SDG	DE057	DE051	DE057	DE051	DE062	DE062	DE051	DE036	DE059	DE059	DE059	DE059
	Start Depth	4	0	4	0	4	7.5	0	0	4	9	4	9
	End Depth	5	0.5	5	0.5	5	8.5	0.5	0.5	5	10	5	10
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Benzidine	ug/kg	3800 U	3900 U	3700 U	3900 U	3800 U	3600 U	3800 U	3800 U	3800 U	3800 U	3700 U	3700 U
2-Methylphenol	ug/kg	190 U	190 U	180 U	200 U	190 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U
2-Chlorophenol	ug/kg	190 U	190 U	180 U	200 U	190 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U
2,4,5-Trichlorophenol	ug/kg	190 U	190 U	180 U	200 U	190 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U
3-Nitroaniline	ug/kg	190 U	190 U	180 U	200 U	190 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U
Benzyl Alcohol	ug/kg	570 U	580 U	550 U	590 U	570 U	550 U	560 U	560 U	580 U	570 U	560 U	560 U
2,6-Dinitrotoluene	ug/kg	190 U	190 U	180 U	200 U	190 U	180 U	190 U	190 U	190 U	190 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-5B

	Sample Name	SL-105-SA5B-SS-0.0-0.5	SL-105-SA5B-SB-4.0-5.0	SL-106-SA5B-SB-4.0-5.0	SL-107-SA5B-SB-4.0-5.0	SL-108-SA5B-SS-0.0-0.5	SL-108-SA5B-SB-4.0-5.0	SL-109-SA5B-SS-0.0-0.5	SL-109-SA5B-SB-4.0-5.0	SL-110-SA5B-SB-4.0-5.0	SL-111-SA5B-SB-4.0-5.0	SL-111-SA5B-SB-9.0-10.0	SL-112-SA5B-SB-4.0-5.0
	Sample Date	12/14/2010	01/10/2011	01/10/2011	01/10/2011	12/14/2010	01/10/2011	12/14/2010	01/10/2011	01/10/2011	01/10/2011	01/10/2011	01/17/2011
	Lab SDG	DE038	DE056	DE056	DE056	DE038	DE056	DE038	DE056	DE056	DE056	DE056	DE062
	Start Depth	0	4	4	4	0	4	0	4	4	4	9	4
	End Depth	0.5	5	5	5	0.5	5	0.5	5	5	5	10	5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
N-Nitrosodimethylamine (1625C)	ng/kg	--	--	--	--	--	--	--	--	--	--	--	26 J
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.7 U	1.9 U	1.8 U	1.9 U	1.7 U	1.8 U	1.8 U	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U
2,4-Dinitrotoluene	ug/kg	170 U	190 U	180 U	190 U	170 U	180 U	180 U	190 U	180 U	190 U	190 U	180 U
Nitrobenzene	ug/kg	170 U	190 U	180 U	190 U	170 U	180 U	180 U	190 U	180 U	190 U	190 U	180 U
1,4-Dichlorobenzene	ug/kg	170 U	190 U	180 U	190 U	170 U	180 U	180 U	190 U	180 U	190 U	190 U	180 U
1,2,4-Trichlorobenzene	ug/kg	170 U	190 U	180 U	190 U	170 U	180 U	180 U	190 U	180 U	190 U	190 U	180 U
1,3-Dichlorobenzene	ug/kg	170 U	190 U	180 U	190 U	170 U	180 U	180 U	190 U	180 U	190 U	190 U	180 U
Hexachlorobutadiene	ug/kg	170 U	190 U	180 U	190 U	170 U	180 U	180 U	190 U	180 U	190 U	190 U	180 U
1,2-Dichlorobenzene	ug/kg	170 U	190 U	180 U	190 U	170 U	180 U	180 U	190 U	180 U	190 U	190 U	180 U
4-Nitroaniline	ug/kg	170 U	190 U	180 U	190 U	170 U	180 U	180 U	190 U	180 U	190 U	190 U	180 U
4-Nitrophenol	ug/kg	520 U	560 U	540 U	580 U	520 U	550 U	530 U	560 U	530 U	560 U	570 U	540 U
4-Bromophenyl Phenyl Ether	ug/kg	170 U	190 U	180 U	190 U	170 U	180 U	180 U	190 U	180 U	190 U	190 U	180 U
2,4-Dimethylphenol	ug/kg	170 U	190 U	180 U	190 U	170 U	180 U	180 U	190 U	180 U	190 U	190 U	180 U
4-Methylphenol	ug/kg	170 U	190 U	180 U	190 U	170 U	180 U	180 U	190 U	180 U	190 U	190 U	180 U
4-Chloroaniline	ug/kg	170 U	190 U	180 U	190 U	170 U	180 U	180 U	190 U	180 U	190 U	190 U	180 U
3,5-Dimethylphenol	ug/kg	170 U	190 U	180 U	190 U	170 U	180 U	180 U	190 U	180 U	190 U	190 U	180 U
Phenol	ug/kg	170 U	190 U	180 U	190 U	170 U	180 U	180 U	190 U	180 U	190 U	190 U	180 U
Bis(2-Chloroethyl) ether	ug/kg	170 U	190 U	180 U	190 U	170 U	180 U	180 U	190 U	180 U	190 U	190 U	180 U
Bis(2-Chloroethoxy) methane	ug/kg	170 U	190 U	180 U	190 U	170 U	180 U	180 U	190 U	180 U	190 U	190 U	180 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	350 U	--	--	--	37 J	--	19 J	--	--	--	--	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	--	20 U	19 U	21 U	--	20 U	--	20 U	19 U	20 U	20 U	19 U
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	19 U	20 U	19 U	21 U	19 U	20 U	19 U	20 U	19 U	20 U	20 U	19 U
Hexachlorobenzene	ug/kg	170 U	190 U	180 U	190 U	170 U	180 U	180 U	190 U	180 U	190 U	190 U	180 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	0.89 J	1.9 U	1.8 U	1.9 U	1.1 J	1.8 U	1.4 J	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U
2,4-Dichlorophenol	ug/kg	170 U	190 U	180 U	190 U	170 U	180 U	180 U	190 U	180 U	190 U	190 U	180 U
1,2-Diphenylhydrazine	ug/kg	170 U	190 U	180 U	190 U	170 U	180 U	180 U	190 U	180 U	190 U	190 U	180 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	0.89 J	1.9 U	1.8 U	1.9 U	14	1.8 U	30	1.9 U	1.8 U	1.9	1.9 U	1.8 U
Dimethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Dimethylphthalate (8270C SIM)	ug/kg	19 U	20 U	19 U	21 U	19 U	20 U	19 U	20 U	19 U	20 U	20 U	19 U
Dibenzofuran	ug/kg	170 U	190 U	180 U	190 U	170 U	180 U	180 U	190 U	180 U	190 U	190 U	180 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	1.7 U	1.9 U	1.8 U	1.9 U	3.8	1.8 U	4.5	1.9 U	1.8 U	0.98 J	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	1.7 U	1.9 U	1.8 U	1.9 U	2.8	1.8 U	4.8	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	1.5 J	1.9 U	1.8 U	1.9 U	8.9	1.8 U	15	1.9 U	1.8 U	2.7	0.78 J	0.74 J
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	1.7 U	1.9 U	1.8 U	1.9 U	9.4	1.8 U	24	1.9 U	1.8 U	2.5	1.9 U	1.8 U
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	1.7 U	1.9 U	1.8 U	1.9 U	4.2	1.8 U	6.4	1.9 U	1.8 U	0.82 J	1.9 U	1.8 U
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	1.7 U	1.9 U	1.8 U	1.9 U	1.7 U	1.8 U	1.8 U	1.9 U	1.8 U	1.9 U	1.9 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-5B

	Sample Name	SL-105-SA5B-SS-0.0-0.5	SL-105-SA5B-SB-4.0-5.0	SL-106-SA5B-SB-4.0-5.0	SL-107-SA5B-SB-4.0-5.0	SL-108-SA5B-SS-0.0-0.5	SL-108-SA5B-SB-4.0-5.0	SL-109-SA5B-SS-0.0-0.5	SL-109-SA5B-SB-4.0-5.0	SL-110-SA5B-SB-4.0-5.0	SL-111-SA5B-SB-4.0-5.0	SL-111-SA5B-SB-9.0-10.0	SL-112-SA5B-SB-4.0-5.0
	Sample Date	12/14/2010	01/10/2011	01/10/2011	01/10/2011	12/14/2010	01/10/2011	12/14/2010	01/10/2011	01/10/2011	01/10/2011	01/10/2011	01/17/2011
	Lab SDG	DE038	DE056	DE056	DE056	DE038	DE056	DE038	DE056	DE056	DE056	DE056	DE062
	Start Depth	0	4	4	4	0	4	0	4	4	4	9	4
	End Depth	0.5	5	5	5	0.5	5	0.5	5	5	5	10	5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Chrysene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	1.1 J	1.9 U	1.8 U	1.9 U	8.8	1.8 U	17	1.9 U	1.8 U	2	1 J	1.8 U
bis(2-Chloroisopropyl) ether	ug/kg	170 U	190 U	180 U	190 U	170 U	180 U	180 U	190 U	180 U	190 U	190 U	180 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	1.7 U	1.9 U	1.8 U	1.9 U	6.5	1.8 U	11	1.9 U	1.8 U	1.5 J	1.9 U	1.8 U
2,4-Dinitrophenol	ug/kg	2100 U	2200 U	2200 U	2300 U	2100 U	2200 U	2100 U	2300 U	2100 U	2300 U	2300 U	2200 U
4,6-Dinitro-2-Methylphenol	ug/kg	520 U	560 U	540 U	580 U	520 U	550 U	530 U	560 U	530 U	560 U	570 U	540 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	1.7 U	1.9 U	1.8 U	1.9 U	0.9 J	1.8 U	1.4 J	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	1.7 U	1.9 U	1.8 U	1.9 U	7.5	1.8 U	15	1.9 U	1.8 U	1.7 J	1.9 U	1.8 U
4-Chloro-3-Methylphenol	ug/kg	170 U	190 U	180 U	190 U	170 U	180 U	180 U	190 U	180 U	190 U	190 U	180 U
N-Nitroso-Di-N-Propylamine	ug/kg	170 U	190 U	180 U	190 U	170 U	180 U	180 U	190 U	180 U	190 U	190 U	180 U
Aniline	ug/kg	520 U	560 U	540 U	580 U	520 U	550 U	530 U	560 U	530 U	560 U	570 U	540 U
Benzoic Acid	ug/kg	520 U	560 U	540 U	580 U	520 U	550 U	530 U	560 U	530 U	560 U	570 U	540 U
Hexachloroethane	ug/kg	170 U	190 U	180 U	190 U	170 U	180 U	180 U	190 U	180 U	190 U	190 U	180 U
4-Chlorophenyl Phenylether	ug/kg	170 U	190 U	180 U	190 U	170 U	180 U	180 U	190 U	180 U	190 U	190 U	180 U
Hexachlorocyclopentadiene	ug/kg	520 U	560 U	540 U	580 U	520 U	550 U	530 U	560 U	530 U	560 U	570 U	540 U
Isophorone	ug/kg	170 U	190 U	180 U	190 U	170 U	180 U	180 U	190 U	180 U	190 U	190 U	180 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	1.7 U	1.9 U	1.8 U	1.9 U	1.7 U	1.8 U	1.8 U	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U
Diethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Diethylphthalate (8270C SIM)	ug/kg	19 U	20 U	19 U	21 U	19 U	20 U	19 U	20 U	19 U	20 U	20 U	19 U
Di-n-Butylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	7.4 J	20 U	19 U	21 U	7.1 J	20 U	6.7 J	20 U	19 U	20 U	20 U	19 U
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	1.7 U	1.9 U	1.8 U	1.9 U	3	1.8 U	7.6	1.9 U	1.8 U	1.1 J	1.9 U	1.8 U
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	19 U	20 U	19 U	21 U	19 U	20 U	19 U	20 U	19 U	20 U	20 U	19 U
N-Nitrosodiphenylamine	ug/kg	170 U	190 U	180 U	190 UJ	170 U	180 U	180 U	190 U	180 U	190 U	190 U	180 U
Fluorene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Fluorene (8270C SIM)	ug/kg	1.7 U	1.9 U	1.8 U	1.9 U	1.7 U	1.8 U	1.8 U	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U
Carbazole	ug/kg	170 U	190 U	180 U	190 U	170 U	180 U	180 U	190 U	180 U	190 U	190 U	180 U
Pentachlorophenol	ug/kg	520 U	560 U	540 U	580 U	520 U	550 U	530 U	560 U	530 U	560 U	570 U	540 U
2,4,6-Trichlorophenol	ug/kg	170 U	190 U	180 U	190 U	170 U	180 U	180 U	190 U	180 U	190 U	190 U	180 U
2-Nitroaniline	ug/kg	170 U	190 U	180 U	190 U	170 U	180 U	180 U	190 U	180 U	190 U	190 U	180 U
2-Nitrophenol	ug/kg	170 U	190 U	180 U	190 U	170 U	180 U	180 U	190 U	180 U	190 U	190 U	180 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	1.7 U	1.9 U	1.8 U	1.9 U	1.7 U	1.8 U	1.8 U	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene (8270C SIM)	ug/kg	1.7 U	1.9 U	1.8 U	1.9 U	1.7 U	1.8 U	1.8 U	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	1.7 U	1.9 U	1.8 U	1.9 U	1.7 U	1.8 U	1.8 U	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U
2-Chloronaphthalene	ug/kg	170 U	190 U	180 U	190 U	170 U	180 U	180 U	190 U	180 U	190 U	190 U	180 U
3,3`-Dichlorobenzidine	ug/kg	350 U	370 U	360 U	380 U	350 U	370 U	350 U	380 U	350 U	380 U	380 U	360 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-5B

	Sample Name	SL-105-SA5B-SS-0.0-0.5	SL-105-SA5B-SB-4.0-5.0	SL-106-SA5B-SB-4.0-5.0	SL-107-SA5B-SB-4.0-5.0	SL-108-SA5B-SS-0.0-0.5	SL-108-SA5B-SB-4.0-5.0	SL-109-SA5B-SS-0.0-0.5	SL-109-SA5B-SB-4.0-5.0	SL-110-SA5B-SB-4.0-5.0	SL-111-SA5B-SB-4.0-5.0	SL-111-SA5B-SB-9.0-10.0	SL-112-SA5B-SB-4.0-5.0
	Sample Date	12/14/2010	01/10/2011	01/10/2011	01/10/2011	12/14/2010	01/10/2011	12/14/2010	01/10/2011	01/10/2011	01/10/2011	01/10/2011	01/17/2011
	Lab SDG	DE038	DE056	DE056	DE056	DE038	DE056	DE038	DE056	DE056	DE056	DE056	DE062
	Start Depth	0	4	4	4	0	4	0	4	4	4	9	4
	End Depth	0.5	5	5	5	0.5	5	0.5	5	5	5	10	5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Benzidine	ug/kg	3500 U	3700 U	3600 U	3800 UJ	3500 U	3700 U	3500 U	3800 U	3500 U	3800 U	3800 U	3600 U
2-Methylphenol	ug/kg	170 U	190 U	180 U	190 U	170 U	180 U	180 U	190 U	180 U	190 U	190 U	180 U
2-Chlorophenol	ug/kg	170 U	190 U	180 U	190 U	170 U	180 U	180 U	190 U	180 U	190 U	190 U	180 U
2,4,5-Trichlorophenol	ug/kg	170 U	190 U	180 U	190 U	170 U	180 U	180 U	190 U	180 U	190 U	190 U	180 U
3-Nitroaniline	ug/kg	170 U	190 U	180 U	190 U	170 U	180 U	180 U	190 U	180 U	190 U	190 U	180 U
Benzyl Alcohol	ug/kg	520 U	560 U	540 U	580 U	520 U	550 U	530 U	560 U	530 U	560 U	570 U	540 U
2,6-Dinitrotoluene	ug/kg	170 U	190 U	180 U	190 U	170 U	180 U	180 U	190 U	180 U	190 U	190 U	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-5B

	Sample Name	SL-113-SA5B-SB-4.0-5.0	SL-114-SA5B-SS-0.0-0.5	SL-114-SA5B-SB-4.0-5.0	SL-115-SA5B-SB-4.0-5.0	SL-116-SA5B-SB-4.0-5.0	SL-117-SA5B-SS-0.0-0.5	SL-117-SA5B-SB-4.0-5.0	SL-118-SA5B-SS-0.0-0.5	SL-118-SA5B-SB-4.0-5.0	SL-118-SA5B-SB-8.0-9.0	SL-119-SA5B-SS-0.0-0.5	SL-119-SA5B-SB-3.0-4.0
	Sample Date	01/17/2011	12/22/2010	01/18/2011	01/18/2011	01/18/2011	12/22/2010	01/17/2011	12/22/2010	01/18/2011	01/18/2011	12/14/2010	01/13/2011
	Lab SDG	DE062	DE051	DE063	DE063	DE063	DE051	DE062	DE051	DE063	DE063	DE038	DE060
	Start Depth	4	0	4	4	4	0	4	0	4	8	0	3
	End Depth	5	0.5	5	5	5	0.5	5	0.5	5	9	0.5	4
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
N-Nitrosodimethylamine (1625C)	ng/kg	37.3 U	208 U	36.3 U	36.9 U	38.3 U	369	37.7 U	197 U	38 U	37.4 U	--	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.9 U	2.1 U	1.8 U	1.8 U	1.9 U	2.1 U	1.9 U	2 U	1.9 U	1.9 U	1.8 U	1.9 U
2,4-Dinitrotoluene	ug/kg	190 U	210 U	180 U	180 U	190 U	210 U	190 U	200 U	190 U	190 U	180 U	190 U
Nitrobenzene	ug/kg	190 U	210 U	180 U	180 U	190 U	210 U	190 U	200 U	190 U	190 U	180 U	190 U
1,4-Dichlorobenzene	ug/kg	190 U	210 U	180 U	180 U	190 U	210 U	190 U	200 U	190 U	190 U	180 U	190 U
1,2,4-Trichlorobenzene	ug/kg	190 U	210 U	180 U	180 U	190 U	210 U	190 U	200 U	190 U	190 U	180 U	190 U
1,3-Dichlorobenzene	ug/kg	190 U	210 U	180 U	180 U	190 U	210 U	190 U	200 U	190 U	190 U	180 U	190 U
Hexachlorobutadiene	ug/kg	190 U	210 U	180 U	180 U	190 U	210 U	190 U	200 U	190 U	190 U	180 U	190 U
1,2-Dichlorobenzene	ug/kg	190 U	210 U	180 U	180 U	190 U	210 U	190 U	200 U	190 U	190 U	180 U	190 U
4-Nitroaniline	ug/kg	190 U	210 U	180 U	180 U	190 U	210 U	190 U	200 U	190 U	190 U	180 U	190 U
4-Nitrophenol	ug/kg	560 U	620 U	540 U	550 U	570 U	620 U	560 U	590 U	570 U	560 U	540 U	560 U
4-Bromophenyl Phenyl Ether	ug/kg	190 U	210 U	180 U	180 U	190 U	210 U	190 U	200 U	190 U	190 U	180 U	190 U
2,4-Dimethylphenol	ug/kg	190 U	210 U	180 U	180 U	190 U	210 U	190 U	200 U	190 U	190 U	180 U	190 U
4-Methylphenol	ug/kg	190 U	210 U	180 U	180 U	190 U	210 U	190 U	200 U	190 U	190 U	180 U	190 U
4-Chloroaniline	ug/kg	190 U	210 U	180 U	180 U	190 U	210 U	190 U	200 U	190 U	190 U	180 U	190 U
3,5-Dimethylphenol	ug/kg	190 U	210 U	180 U	180 U	190 U	210 U	190 U	200 U	190 U	190 U	180 U	190 U
Phenol	ug/kg	190 U	210 U	180 U	180 U	190 U	210 U	190 U	200 U	190 U	190 U	180 U	190 U
Bis(2-Chloroethyl) ether	ug/kg	190 U	210 U	180 U	180 U	190 U	210 U	190 U	200 U	190 U	190 U	180 U	190 U
Bis(2-Chloroethoxy) methane	ug/kg	190 U	210 U	180 U	180 U	190 U	210 U	190 U	200 U	190 U	190 U	180 U	190 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	--	87 J	--	--	--	22 J	--	23 J	--	--	20 J	380 U
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	20 U	--	20 UJ	20 UJ	21 UJ	--	20 U	--	21 UJ	20 UJ	--	--
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	20 U	22 U	20 U	20 U	21 U	22 U	20 U	21 U	21 U	20 U	7.2 J	20 U
Hexachlorobenzene	ug/kg	190 U	210 U	180 U	180 U	190 U	210 U	190 U	200 U	190 U	190 U	180 U	190 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	1.9 U	2.1 U	1.8 U	1.8 U	1.9 U	6.5	1.9 U	2 U	1.9 U	1.9 U	1.8 U	1.9 U
2,4-Dichlorophenol	ug/kg	190 U	210 U	180 U	180 U	190 U	210 U	190 U	200 U	190 U	190 U	180 U	190 U
1,2-Diphenylhydrazine	ug/kg	190 U	210 U	180 U	180 U	190 U	210 U	190 U	200 U	190 U	190 U	180 U	190 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	1.9 U	3.8	1.8 U	1.8 U	1.9 U	25	1.9 U	2 U	1.9 U	1.9 U	2	1.9 U
Dimethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Dimethylphthalate (8270C SIM)	ug/kg	20 U	22 U	20 U	20 U	21 U	22 U	20 U	21 U	21 U	20 U	19 U	20 U
Dibenzofuran	ug/kg	190 U	210 U	180 U	180 U	190 U	210 U	190 U	200 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	1.2 J	1.3 J	0.79 J	1.8 U	1.9 U	2.7	1.9 U	1 J	1.9 U	1.9 U	1.2 J	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	1.1 J	1.8 U	1.8 U	1.9 U	3.1	1.9 U	2 U	1.9 U	1.9 U	1.8 U	1.9 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	1.1 J	4	1.8	1.8 U	1.2 J	13	0.9 J	1.3 J	1.9 U	1.9 U	1.6 J	1.9 U
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	1.9 U	4	1.8 U	1.8 U	1.9 U	28	1.9 U	2 U	1.9 U	1.9 U	1.5 J	1.9 U
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	1.9 U	1.6 J	1.8 U	1.8 U	1.9 U	8.2	1.9 U	2 U	1.9 U	1.9 U	0.73 J	1.9 U
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	1.9 U	2.1 U	1.8 U	1.8 U	1.9 U	2.1 U	1.9 U	2 U	1.9 U	1.9 U	1.8 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-5B

	Sample Name	SL-113-SA5B-SB-4.0-5.0	SL-114-SA5B-SS-0.0-0.5	SL-114-SA5B-SB-4.0-5.0	SL-115-SA5B-SB-4.0-5.0	SL-116-SA5B-SB-4.0-5.0	SL-117-SA5B-SS-0.0-0.5	SL-117-SA5B-SB-4.0-5.0	SL-118-SA5B-SS-0.0-0.5	SL-118-SA5B-SB-4.0-5.0	SL-118-SA5B-SB-8.0-9.0	SL-119-SA5B-SS-0.0-0.5	SL-119-SA5B-SB-3.0-4.0
	Sample Date	01/17/2011	12/22/2010	01/18/2011	01/18/2011	01/18/2011	12/22/2010	01/17/2011	12/22/2010	01/18/2011	01/18/2011	12/14/2010	01/13/2011
	Lab SDG	DE062	DE051	DE063	DE063	DE063	DE051	DE062	DE051	DE063	DE063	DE038	DE060
	Start Depth	4	0	4	4	4	0	4	0	4	8	0	3
	End Depth	5	0.5	5	5	5	0.5	5	0.5	5	9	0.5	4
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Chrysene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	0.56 J	2.6	0.64 J	1.8 U	1.9 U	14	1.9 U	1 J	1.9 U	1.9 U	1.8	1.9 U
bis(2-Chloroisopropyl) ether	ug/kg	190 U	210 U	180 U	180 U	190 U	210 U	190 U	200 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	2.2	1.8 U	1.8 U	1.9 U	11	1.9 U	2 U	1.9 U	1.9 U	0.87 J	1.9 U
2,4-Dinitrophenol	ug/kg	2200 U	2500 U	1100 U	1100 U	1100 U	2500 U	2300 U	2400 U	1100 U	1100 U	2200 U	2300 U
4,6-Dinitro-2-Methylphenol	ug/kg	560 U	620 U	540 U	550 U	570 U	620 U	560 U	590 U	570 U	560 U	540 U	560 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	1.9 U	2.1 U	1.8 U	1.8 U	1.9 U	0.98 J	1.9 U	2 U	1.9 U	1.9 U	1.8 U	1.9 U
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	1.9 U	1.7 J	1.8 U	1.8 U	1.9 U	13	1.9 U	2 U	1.9 U	1.9 U	0.91 J	1.9 U
4-Chloro-3-Methylphenol	ug/kg	190 U	210 U	180 U	180 U	190 U	210 U	190 U	200 U	190 U	190 U	180 U	190 U
N-Nitroso-Di-N-Propylamine	ug/kg	190 U	210 U	180 U	180 U	190 U	210 U	190 U	200 U	190 U	190 U	180 U	190 U
Aniline	ug/kg	560 U	620 U	540 U	550 U	570 U	620 U	560 U	590 U	570 U	560 U	540 U	560 U
Benzoic Acid	ug/kg	560 U	620 U	540 U	550 U	570 U	620 U	560 U	590 U	570 U	560 U	540 U	560 U
Hexachloroethane	ug/kg	190 U	210 U	180 U	180 U	190 U	210 U	190 U	200 U	190 U	190 U	180 U	190 U
4-Chlorophenyl Phenylether	ug/kg	190 U	210 U	180 U	180 U	190 U	210 U	190 U	200 U	190 U	190 U	180 U	190 U
Hexachlorocyclopentadiene	ug/kg	560 U	620 U	540 U	550 U	570 U	620 U	560 U	590 U	570 U	560 U	540 U	560 U
Isophorone	ug/kg	190 U	210 U	180 U	180 U	190 U	210 U	190 U	200 U	190 U	190 U	180 U	190 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	1.9 U	2.1 U	1.8 U	1.8 U	1.9 U	4.8	1.9 U	2 U	1.9 U	1.9 U	1.8 U	1.9 U
Diethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Diethylphthalate (8270C SIM)	ug/kg	20 U	22 U	20 U	20 U	21 U	11 J	20 U	7.4 J	21 U	20 U	19 U	20 U
Di-n-Butylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	20 U	22 U	20 U	20 U	21 U	8.4 J	20 U	11 J	21 U	20 U	7.7 J	20 U
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	1.9 U	2.3	1.8 U	1.8 U	1.9 U	27	1.9 U	2 U	1.9 U	1.9 U	1.1 J	1.9 U
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	20 U	22 U	20 U	20 U	21 U	22 U	20 U	21 U	21 U	20 U	19 U	20 U
N-Nitrosodiphenylamine	ug/kg	190 U	210 U	180 U	180 U	190 U	210 U	190 U	200 U	190 U	190 U	180 U	190 U
Fluorene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Fluorene (8270C SIM)	ug/kg	1.9 U	2.1 U	1.8 U	1.8 U	1.9 U	3.3	1.9 U	2 U	1.9 U	1.9 U	1.8 U	1.9 U
Carbazole	ug/kg	190 U	210 U	180 U	180 U	190 U	210 U	190 U	200 U	190 U	190 U	180 U	190 U
Pentachlorophenol	ug/kg	560 U	620 U	540 U	550 U	570 U	620 U	560 U	590 U	570 U	560 U	540 U	560 U
2,4,6-Trichlorophenol	ug/kg	190 U	210 U	180 U	180 U	190 U	210 U	190 U	200 U	190 U	190 U	180 U	190 U
2-Nitroaniline	ug/kg	190 U	210 U	180 U	180 U	190 U	210 U	190 U	200 U	190 U	190 U	180 U	190 U
2-Nitrophenol	ug/kg	190 U	210 U	180 U	180 U	190 U	210 U	190 U	200 U	190 U	190 U	180 U	190 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	1.9 U	2.1 U	1.8 U	1.8 U	1.9 U	2.1 U	1.9 U	2 U	1.9 U	1.9 U	1.8 U	1.9 U
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene (8270C SIM)	ug/kg	1.9 U	2.1 U	1.8 U	1.8 U	1.9 U	2.1	1.9 U	2 U	1.9 U	1.9 U	1.8 U	1.9 U
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	1.9 U	2.1 U	1.8 U	1.8 U	1.9 U	0.95 J	1.9 U	2 U	1.9 U	1.9 U	1.8 U	1.9 U
2-Chloronaphthalene	ug/kg	190 U	210 U	180 U	180 U	190 U	210 U	190 U	200 U	190 U	190 U	180 U	190 U
3,3`-Dichlorobenzidine	ug/kg	370 UJ	420 U	360 UJ	370 UJ	380 UJ	410 U	380 UJ	390 U	380 UJ	370 UJ	360 U	380 U

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

Appendix A6
Semivolatile Organics - Validated Data
HSA-5B

	Sample Name	SL-113-SA5B-SB-4.0-5.0	SL-114-SA5B-SS-0.0-0.5	SL-114-SA5B-SB-4.0-5.0	SL-115-SA5B-SB-4.0-5.0	SL-116-SA5B-SB-4.0-5.0	SL-117-SA5B-SS-0.0-0.5	SL-117-SA5B-SB-4.0-5.0	SL-118-SA5B-SS-0.0-0.5	SL-118-SA5B-SB-4.0-5.0	SL-118-SA5B-SB-8.0-9.0	SL-119-SA5B-SS-0.0-0.5	SL-119-SA5B-SB-3.0-4.0
	Sample Date	01/17/2011	12/22/2010	01/18/2011	01/18/2011	01/18/2011	12/22/2010	01/17/2011	12/22/2010	01/18/2011	01/18/2011	12/14/2010	01/13/2011
	Lab SDG	DE062	DE051	DE063	DE063	DE063	DE051	DE062	DE051	DE063	DE063	DE038	DE060
	Start Depth	4	0	4	4	4	0	4	0	4	8	0	3
	End Depth	5	0.5	5	5	5	0.5	5	0.5	5	9	0.5	4
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Benzidine	ug/kg	3700 U	4200 U	3600 U	3700 U	3800 U	4100 U	3800 U	3900 U	3800 U	3700 U	3600 U	3800 U
2-Methylphenol	ug/kg	190 U	210 U	180 U	180 U	190 U	210 U	190 U	200 U	190 U	190 U	180 U	190 U
2-Chlorophenol	ug/kg	190 U	210 U	180 U	180 U	190 U	210 U	190 U	200 U	190 U	190 U	180 U	190 U
2,4,5-Trichlorophenol	ug/kg	190 U	210 U	180 U	180 U	190 U	210 U	190 U	200 U	190 U	190 U	180 U	190 U
3-Nitroaniline	ug/kg	190 U	210 U	180 U	180 U	190 U	210 U	190 U	200 U	190 U	190 U	180 U	190 U
Benzyl Alcohol	ug/kg	560 U	620 U	540 U	550 U	570 U	620 U	560 U	590 U	570 U	560 U	540 U	560 U
2,6-Dinitrotoluene	ug/kg	190 U	210 U	180 U	180 U	190 U	210 U	190 U	200 U	190 U	190 U	180 U	190 U

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Appendix A6
Semivolatile Organics - Validated Data
HSA-5B

	Sample Name	SL-120-SA5B-SS-0.0-0.5	SL-120-SA5B-SB-3.0-4.0	SL-121-SA5B-SS-0.0-0.5	SL-121-SA5B-SB-4.0-5.0	SL-121-SA5B-SB-9.0-10.0	SL-122-SA5B-SS-0.0-0.5	SL-122-SA5B-SB-2.0-3.0	SL-123-SA5B-SS-0.0-0.5	SL-124-SA5B-SS-0.0-0.5	SL-124-SA5B-SB-4.0-5.0	SL-124-SA5B-SB-7.5-8.5	SL-125-SA5B-SS-0.0-0.5
	Sample Date	12/14/2010	01/13/2011	12/14/2010	01/13/2011	01/13/2011	12/14/2010	01/13/2011	12/14/2010	12/14/2010	01/14/2011	01/14/2011	12/14/2010
	Lab SDG	DE038	DE060	DE038	DE060	DE060	DE038	DE060	DE038	DE038	DE061	DE061	DE039
	Start Depth	0	3	0	4	9	0	2	0	0	4	7.5	0
	End Depth	0.5	4	0.5	5	10	0.5	3	0.5	0.5	5	8.5	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
N-Nitrosodimethylamine (1625C)	ng/kg	--	--	--	--	--	--	--	--	--	--	--	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.7 U	1.8 U	1.8 U	1.8 U	2.2 U	1.8 U	1.9 U	1.8 U	1.8 U	1.9 U	1.9 U	1.8 U
2,4-Dinitrotoluene	ug/kg	170 U	180 U	180 U	180 U	220 U	180 U	190 U	180 U	180 U	190 U	190 U	180 U
Nitrobenzene	ug/kg	170 U	180 U	180 U	180 U	220 U	180 U	190 U	180 U	180 U	190 U	190 U	180 U
1,4-Dichlorobenzene	ug/kg	170 U	180 U	180 U	180 U	220 U	180 U	190 U	180 U	180 U	190 U	190 U	180 U
1,2,4-Trichlorobenzene	ug/kg	170 U	180 U	180 U	180 U	220 U	180 U	190 U	180 U	180 U	190 U	190 U	180 U
1,3-Dichlorobenzene	ug/kg	170 U	180 U	180 U	180 U	220 U	180 U	190 U	180 U	180 U	190 U	190 U	180 U
Hexachlorobutadiene	ug/kg	170 U	180 U	180 U	180 U	220 U	180 U	190 U	180 U	180 U	190 U	190 U	180 U
1,2-Dichlorobenzene	ug/kg	170 U	180 U	180 U	180 U	220 U	180 U	190 U	180 U	180 U	190 U	190 U	180 U
4-Nitroaniline	ug/kg	170 U	180 U	180 U	180 U	220 U	180 U	190 U	180 U	180 U	190 U	190 U	180 U
4-Nitrophenol	ug/kg	520 U	550 U	530 U	540 U	650 U	530 U	580 U	530 U	530 U	570 U	580 U	530 U
4-Bromophenyl Phenyl Ether	ug/kg	170 U	180 U	180 U	180 U	220 U	180 U	190 U	180 U	180 U	190 U	190 U	180 U
2,4-Dimethylphenol	ug/kg	170 U	180 U	180 U	180 U	220 U	180 U	190 U	180 U	180 U	190 U	190 U	180 U
4-Methylphenol	ug/kg	170 U	180 U	180 U	180 U	220 U	180 U	190 U	180 U	180 U	190 U	190 U	180 U
4-Chloroaniline	ug/kg	170 U	180 U	180 U	180 U	220 U	180 U	190 U	180 U	180 U	190 U	190 U	180 U
3,5-Dimethylphenol	ug/kg	170 U	180 U	180 U	180 U	220 U	180 U	190 U	180 U	180 U	190 U	190 U	180 U
Phenol	ug/kg	170 U	180 U	180 U	180 U	220 U	180 U	190 U	180 U	180 U	190 U	190 U	180 U
Bis(2-Chloroethyl) ether	ug/kg	170 U	180 U	180 U	180 U	220 U	180 U	190 U	180 U	180 U	190 U	190 U	180 U
Bis(2-Chloroethoxy) methane	ug/kg	170 U	180 U	180 U	180 U	220 U	180 U	190 U	180 U	180 U	190 U	190 U	180 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	350 U	370 U	350 U	360 U	430 U	350 U	390 U	89 J	350 U	--	--	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	--	--	--	--	--	--	--	--	--	21 U	21 U	32
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	9 J	20 U	19 U	19 U	23 U	19 U	21 U	19 U	19 U	21 U	21 U	19 U
Hexachlorobenzene	ug/kg	170 U	180 U	180 U	180 U	220 U	180 U	190 U	180 U	180 U	190 U	190 U	180 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	0.41 J	1.8 U	1.8 U	1.8 U	2.2 U	1.8 U	1.9 U	3.1	1.8 U	1.9 U	1.9 U	1.8 U
2,4-Dichlorophenol	ug/kg	170 U	180 U	180 U	180 U	220 U	180 U	190 U	180 U	180 U	190 U	190 U	180 U
1,2-Diphenylhydrazine	ug/kg	170 U	180 U	180 U	180 U	220 U	180 U	190 U	180 U	180 U	190 U	190 U	180 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	30 J	--	--	--	--
Pyrene (8270C SIM)	ug/kg	7 J	1.8 U	1.8 U	1.8 U	2.2 U	1 J	1.9 U	--	1.2 J	1.9 U	1.9 U	1.8 U
Dimethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Dimethylphthalate (8270C SIM)	ug/kg	19 U	20 U	19 U	19 U	23 U	19 U	21 U	19 U	19 U	21 U	21 U	19 U
Dibenzofuran	ug/kg	170 U	180 U	180 U	180 U	220 U	180 U	190 U	180 U	180 U	190 U	190 U	180 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	6.1 J	1.8 U	1.8 U	1.8 U	2.2 U	1.8 U	1.9 U	4.5	1.8 U	1.9 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	2.9 J	1.8 U	1.8 U	1.8 U	2.2 U	1.8 U	1.9 U	3	1.8 U	1.9 U	1.9 U	1.8 UJ
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	7.4 J	1.8 U	1.8 U	1.8 U	2.2 U	0.9 J	1.9 U	18	1.8 U	1.9 U	1.9 U	1.8 U
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	33 J	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	5.8 J	1.8 U	1.8 U	1.8 U	2.2 U	0.92 J	1.9 U	--	1.1 J	1.9 U	1.9 U	1.8 UJ
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	3.8 J	1.8 U	1.8 U	1.8 U	2.2 U	1.8 U	1.9 U	7.9	1.8 U	1.9 U	1.9 U	1.8 U
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	1.7 U	1.8 U	1.8 U	1.8 U	2.2 U	1.8 U	1.9 U	1 J	1.8 U	1.9 U	1.9 U	1.8 U

U – Compound not detected above the reporting limit
J – Result is an estimated value
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Appendix A6
Semivolatile Organics - Validated Data
HSA-5B

	Sample Name	SL-120-SA5B-SS-0.0-0.5	SL-120-SA5B-SB-3.0-4.0	SL-121-SA5B-SS-0.0-0.5	SL-121-SA5B-SB-4.0-5.0	SL-121-SA5B-SB-9.0-10.0	SL-122-SA5B-SS-0.0-0.5	SL-122-SA5B-SB-2.0-3.0	SL-123-SA5B-SS-0.0-0.5	SL-124-SA5B-SS-0.0-0.5	SL-124-SA5B-SB-4.0-5.0	SL-124-SA5B-SB-7.5-8.5	SL-125-SA5B-SS-0.0-0.5
	Sample Date	12/14/2010	01/13/2011	12/14/2010	01/13/2011	01/13/2011	12/14/2010	01/13/2011	12/14/2010	12/14/2010	01/14/2011	01/14/2011	12/14/2010
	Lab SDG	DE038	DE060	DE038	DE060	DE060	DE038	DE060	DE038	DE038	DE061	DE061	DE039
	Start Depth	0	3	0	4	9	0	2	0	0	4	7.5	0
	End Depth	0.5	4	0.5	5	10	0.5	3	0.5	0.5	5	8.5	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Chrysene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	18 J	1.8 U	1.8 U	1.8 U	2.2 U	0.97 J	1.9 U	22	0.82 J	1.9 U	1.9 U	1.8 UJ
bis(2-Chloroisopropyl) ether	ug/kg	170 U	180 U	180 U	180 U	220 U	180 U	190 U	180 U	180 U	190 U	190 U	180 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	6.2 J	1.8 U	1.8 U	1.8 U	2.2 U	1.8 U	1.9 U	9.4	1.8 U	1.9 U	1.9 U	1.8 U
2,4-Dinitrophenol	ug/kg	2100 U	2200 U	2100 U	2200 U	2600 U	2100 U	1200 U	2100 U	2100 U	2300 U	2300 U	2100 U
4,6-Dinitro-2-Methylphenol	ug/kg	520 U	550 U	530 U	540 U	650 U	530 U	580 U	530 U	530 U	570 U	580 U	530 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	1.2 J	1.8 U	1.8 U	1.8 U	2.2 U	1.8 U	1.9 U	1.1 J	1.8 U	1.9 U	1.9 U	1.8 UJ
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	4.3 J	1.8 U	1.8 U	1.8 U	2.2 U	1.8 U	1.9 U	11	1.8 U	1.9 U	1.9 U	1.8 U
4-Chloro-3-Methylphenol	ug/kg	170 U	180 U	180 U	180 U	220 U	180 U	190 U	180 U	180 U	190 U	190 U	180 U
N-Nitroso-Di-N-Propylamine	ug/kg	170 U	180 U	180 U	180 U	220 U	180 U	190 U	180 U	180 U	190 U	190 U	180 U
Aniline	ug/kg	520 U	550 U	530 U	540 U	650 U	530 U	580 U	530 U	530 U	570 U	580 U	530 U
Benzoic Acid	ug/kg	520 U	550 U	530 U	540 U	650 U	530 U	580 U	530 U	530 U	570 U	580 U	530 U
Hexachloroethane	ug/kg	170 U	180 U	180 U	180 U	220 U	180 U	190 U	180 U	180 U	190 U	190 U	180 U
4-Chlorophenyl Phenylether	ug/kg	170 U	180 U	180 U	180 U	220 U	180 U	190 U	180 U	180 U	190 U	190 U	180 U
Hexachlorocyclopentadiene	ug/kg	520 U	550 U	530 U	540 U	650 U	530 U	580 U	530 U	530 U	570 U	580 U	530 U
Isophorone	ug/kg	170 U	180 U	180 U	180 U	220 U	180 U	190 U	180 U	180 U	190 U	190 U	180 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	1.7 U	1.8 U	1.8 U	1.8 U	2.2 U	1.8 U	1.9 U	1.8 U	1.8 U	1.9 U	1.9 U	1.8 U
Diethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Diethylphthalate (8270C SIM)	ug/kg	19 U	20 U	19 U	19 U	23 U	19 U	21 U	19 U	19 U	21 U	21 U	19 UJ
Di-n-Butylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	6.5 J	20 U	19 U	19 U	23 U	19 U	21 U	12 J	19 U	21 U	21 U	19 UJ
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	--	22 J	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	2.3	1.8 U	1.8 U	1.8 U	2.2 U	0.77 J	1.9 U	--	0.77 J	1.9 U	1.9 U	1.8 U
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	21 J	--	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	19 U	20 U	19 U	19 U	23 U	19 U	21 U	--	19 U	21 U	21 U	19 U
N-Nitrosodiphenylamine	ug/kg	170 U	180 U	180 U	180 U	220 U	180 U	190 U	180 U	180 U	190 U	190 U	180 U
Fluorene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Fluorene (8270C SIM)	ug/kg	1.7 U	1.8 U	1.8 U	1.8 U	2.2 U	1.8 U	1.9 U	1.2 J	1.8 U	1.9 U	1.9 U	1.8 UJ
Carbazole	ug/kg	170 U	180 U	180 U	180 U	220 U	180 U	190 U	180 U	180 U	190 U	190 U	180 U
Pentachlorophenol	ug/kg	520 U	550 U	530 U	540 U	650 U	530 U	580 U	530 U	530 U	570 U	580 U	530 U
2,4,6-Trichlorophenol	ug/kg	170 U	180 U	180 U	180 U	220 U	180 U	190 U	180 U	180 U	190 U	190 U	180 U
2-Nitroaniline	ug/kg	170 U	180 U	180 U	180 U	220 U	180 U	190 U	180 U	180 U	190 U	190 U	180 U
2-Nitrophenol	ug/kg	170 U	180 U	180 U	180 U	220 U	180 U	190 U	180 U	180 U	190 U	190 U	180 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	1.7 U	1.8 U	1.8 U	1.8 U	2.2 U	1.8 U	1.9 U	3.2	1.8 U	1.9 U	1.9 U	1.8 U
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene (8270C SIM)	ug/kg	1.7 UJ	1.8 U	1.8 U	1.8 U	2.2 U	1.8 U	1.9 U	2.3	1.8 U	1.9 U	1.9 U	1.8 U
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	1.7 U	1.8 U	1.8 U	1.8 U	2.2 U	1.8 U	1.9 U	3.6	1.8 U	1.9 U	1.9 U	1.8 U
2-Chloronaphthalene	ug/kg	170 U	180 U	180 U	180 U	220 U	180 U	190 U	180 U	180 U	190 U	190 U	180 U
3,3`-Dichlorobenzidine	ug/kg	350 U	370 U	350 U	360 U	430 U	350 U	390 U	350 U	350 U	380 UJ	380 UJ	350 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-5B

	Sample Name	SL-120-SA5B-SS-0.0-0.5	SL-120-SA5B-SB-3.0-4.0	SL-121-SA5B-SS-0.0-0.5	SL-121-SA5B-SB-4.0-5.0	SL-121-SA5B-SB-9.0-10.0	SL-122-SA5B-SS-0.0-0.5	SL-122-SA5B-SB-2.0-3.0	SL-123-SA5B-SS-0.0-0.5	SL-124-SA5B-SS-0.0-0.5	SL-124-SA5B-SB-4.0-5.0	SL-124-SA5B-SB-7.5-8.5	SL-125-SA5B-SS-0.0-0.5
	Sample Date	12/14/2010	01/13/2011	12/14/2010	01/13/2011	01/13/2011	12/14/2010	01/13/2011	12/14/2010	12/14/2010	01/14/2011	01/14/2011	12/14/2010
	Lab SDG	DE038	DE060	DE038	DE060	DE060	DE038	DE060	DE038	DE038	DE061	DE061	DE039
	Start Depth	0	3	0	4	9	0	2	0	0	4	7.5	0
	End Depth	0.5	4	0.5	5	10	0.5	3	0.5	0.5	5	8.5	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Benzidine	ug/kg	3500 UJ	3700 U	3500 U	3600 U	4300 U	3500 U	3900 U	3500 U	3500 U	3800 UJ	3800 U	3500 U
2-Methylphenol	ug/kg	170 U	180 U	180 U	180 U	220 U	180 U	190 U	180 U	180 U	190 U	190 U	180 U
2-Chlorophenol	ug/kg	170 U	180 U	180 U	180 U	220 U	180 U	190 U	180 U	180 U	190 U	190 U	180 U
2,4,5-Trichlorophenol	ug/kg	170 U	180 U	180 U	180 U	220 U	180 U	190 U	180 U	180 U	190 U	190 U	180 U
3-Nitroaniline	ug/kg	170 U	180 U	180 U	180 U	220 U	180 U	190 U	180 U	180 U	190 U	190 U	180 U
Benzyl Alcohol	ug/kg	520 U	550 U	530 U	540 U	650 U	530 U	580 U	530 U	530 U	570 U	580 U	530 U
2,6-Dinitrotoluene	ug/kg	170 U	180 U	180 U	180 U	220 U	180 U	190 U	180 U	180 U	190 U	190 U	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-5B

	Sample Name	SL-125-SA5B-SB-4.0-5.0	SL-126-SA5B-SS-0.0-0.5	SL-126-SA5B-SB-2.0-3.0	SL-128-SA5B-SS-0.0-0.5	SL-128-SA5B-SB-4.0-5.0	SL-129-SA5B-SS-0.0-0.5	SL-129-SA5B-SB-2.0-3.0	SL-131-SA5B-SS-0.0-0.5	SL-132-SA5B-SS-0.0-0.5	SL-133-SA5B-SS-0.0-0.5	SL-134-SA5B-SS-0.0-0.5	SL-135-SA5B-SS-0.0-0.5
	Sample Date	01/14/2011	12/14/2010	01/14/2011	12/14/2010	01/14/2011	12/14/2010	01/14/2011	12/15/2010	12/15/2010	12/15/2010	12/15/2010	12/15/2010
	Lab SDG	DE061	DE039	DE061	DE039	DE061	DE039	DE061	DE040	DE040	DE040	DE040	DE040
	Start Depth	4	0	2	0	4	0	2	0	0	0	0	0
	End Depth	5	0.5	3	0.5	5	0.5	3	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
N-Nitrosodimethylamine (1625C)	ng/kg	--	--	--	--	--	--	--	--	--	--	--	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.9 U	1.7 U	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	1.8 U	47 U	89 U	1.8 U	9.3 U
2,4-Dinitrotoluene	ug/kg	190 U	170 U	180 U	180 U	190 U	180 U	180 U	180 U	940 U	1800 U	180 U	190 U
Nitrobenzene	ug/kg	190 U	170 U	180 U	180 U	190 U	180 U	180 U	180 U	940 U	1800 U	180 U	190 U
1,4-Dichlorobenzene	ug/kg	190 U	170 U	180 U	180 U	190 U	180 U	180 U	180 U	940 U	1800 U	180 U	190 U
1,2,4-Trichlorobenzene	ug/kg	190 U	170 U	180 U	180 U	190 U	180 U	180 U	180 U	940 U	1800 U	180 U	190 U
1,3-Dichlorobenzene	ug/kg	190 U	170 U	180 U	180 U	190 U	180 U	180 U	180 U	940 U	1800 U	180 U	190 U
Hexachlorobutadiene	ug/kg	190 U	170 U	180 U	180 U	190 U	180 U	180 U	180 U	940 U	1800 U	180 U	190 U
1,2-Dichlorobenzene	ug/kg	190 U	170 U	180 U	180 U	190 U	180 U	180 U	180 U	940 U	1800 U	180 U	190 U
4-Nitroaniline	ug/kg	190 U	170 U	180 U	180 U	190 U	180 U	180 U	180 U	940 U	1800 U	180 U	190 U
4-Nitrophenol	ug/kg	560 U	520 U	550 U	530 U	580 U	530 U	540 U	530 U	2800 U	5400 U	530 U	560 U
4-Bromophenyl Phenyl Ether	ug/kg	190 U	170 U	180 U	180 U	190 U	180 U	180 U	180 U	940 U	1800 U	180 U	190 U
2,4-Dimethylphenol	ug/kg	190 U	170 U	180 U	180 U	190 U	180 U	180 U	180 U	940 U	1800 U	180 U	190 U
4-Methylphenol	ug/kg	190 U	170 U	180 U	180 U	190 U	180 U	180 U	180 U	940 U	1800 U	180 U	190 U
4-Chloroaniline	ug/kg	190 U	170 U	180 U	180 U	190 U	180 U	180 U	180 U	940 U	1800 U	180 U	190 U
3,5-Dimethylphenol	ug/kg	190 U	170 U	180 U	180 U	190 U	180 U	180 U	180 U	940 U	1800 U	180 U	190 U
Phenol	ug/kg	190 U	170 U	180 U	180 U	190 U	180 U	180 U	180 U	940 U	1800 U	180 U	20 J
Bis(2-Chloroethyl) ether	ug/kg	190 U	170 U	180 U	180 U	190 U	180 U	180 U	180 U	940 U	1800 U	180 U	190 U
Bis(2-Chloroethoxy) methane	ug/kg	190 U	170 U	180 U	180 U	190 U	180 U	180 U	180 U	940 U	1800 U	180 U	190 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	--	--	--	--	--	--	--	35 J	1900 U	3600 U	19 J	300 J
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	20 U	9.6 J	20 U	110	21 U	19 U	19 U	--	--	--	--	--
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	940 U	1800 U	--	190 U
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	20 U	19 U	20 U	19 U	21 U	19 U	19 U	19 U	--	--	19 U	--
Hexachlorobenzene	ug/kg	190 U	170 U	180 U	180 U	190 U	180 U	180 U	180 U	940 U	1800 U	180 U	190 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	21 J
Anthracene (8270C SIM)	ug/kg	1.9 U	1.7 U	1.8 U	0.41 J	1.9 U	1.8 U	1.8 U	1.8 U	47 U	89 U	1.8 U	--
2,4-Dichlorophenol	ug/kg	190 U	170 U	180 U	180 U	190 U	180 U	180 U	180 U	940 U	1800 U	180 U	190 U
1,2-Diphenylhydrazine	ug/kg	190 U	170 U	180 U	180 U	190 U	180 U	180 U	180 U	940 U	1800 U	180 U	190 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	170 J
Pyrene (8270C SIM)	ug/kg	1.9 U	1.5 J	1.8 U	5.8	1.9 U	1.8 U	1.8 U	1.8 U	25 J	89 U	1.2 J	--
Dimethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	940 U	1800 U	--	190 U
Dimethylphthalate (8270C SIM)	ug/kg	20 U	19 U	20 U	19 U	21 U	19 U	19 U	19 U	--	--	19 U	--
Dibenzofuran	ug/kg	190 U	170 U	180 U	180 U	190 U	180 U	180 U	180 U	940 U	1800 U	180 U	50 J
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	46 J
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	1.9 U	1.7 U	1.8 U	1.4 J	1.9 U	1.8 U	1.8 U	1.8 U	24 J	120	0.97 J	--
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	36 J
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	1.9 U	1.7 UJ	1.8 U	1.1 J	1.9 U	1.8 UJ	1.8 U	1.8 U	47 U	39 J	1.8 U	--
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	92 J
Benzo(b)fluoranthene (8270C SIM)	ug/kg	1.9 U	1.7	1.8 U	4.5	1.9 U	1.8 U	1.8 U	0.95 J	22 J	170	1.7 J	--
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	150 J
Fluoranthene (8270C SIM)	ug/kg	1.9 U	1.7 J	1.8 U	7.8 J	1.9 U	1.8 UJ	1.8 U	1.8 U	22 J	89 U	1.2 J	--
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	44 J
Benzo(k)fluoranthene (8270C SIM)	ug/kg	1.9 U	1.7 U	1.8 U	1.4 J	1.9 U	1.8 U	1.8 U	1.8 U	47 U	89 U	1.8 U	--
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	1.9 U	1.7 U	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	1.8 U	47 U	89 U	1.8 U	1.9 J

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Appendix A6
Semivolatile Organics - Validated Data
HSA-5B

	Sample Name	SL-125-SA5B-SB-4.0-5.0	SL-126-SA5B-SS-0.0-0.5	SL-126-SA5B-SB-2.0-3.0	SL-128-SA5B-SS-0.0-0.5	SL-128-SA5B-SB-4.0-5.0	SL-129-SA5B-SS-0.0-0.5	SL-129-SA5B-SB-2.0-3.0	SL-131-SA5B-SS-0.0-0.5	SL-132-SA5B-SS-0.0-0.5	SL-133-SA5B-SS-0.0-0.5	SL-134-SA5B-SS-0.0-0.5	SL-135-SA5B-SS-0.0-0.5
	Sample Date	01/14/2011	12/14/2010	01/14/2011	12/14/2010	01/14/2011	12/14/2010	01/14/2011	12/15/2010	12/15/2010	12/15/2010	12/15/2010	12/15/2010
	Lab SDG	DE061	DE039	DE061	DE039	DE061	DE039	DE061	DE040	DE040	DE040	DE040	DE040
	Start Depth	4	0	2	0	4	0	2	0	0	0	0	0
	End Depth	5	0.5	3	0.5	5	0.5	3	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
Chrysene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	110 J
Chrysene (8270C SIM)	ug/kg	1.9 U	1.5 J	1.8 U	4.9 J	1.9 U	1.8 UJ	1.8 U	0.84 J	29 J	140	1.7 J	--
bis(2-Chloroisopropyl) ether	ug/kg	190 U	170 U	180 U	180 U	190 U	180 U	180 U	180 U	940 U	1800 U	180 U	190 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	73 J
Benzo(a)pyrene (8270C SIM)	ug/kg	1.9 U	0.73 J	1.8 U	1.5 J	1.9 U	1.8 U	1.8 U	1.8 U	47 U	44 J	0.8 J	--
2,4-Dinitrophenol	ug/kg	2200 U	2100 U	2200 U	2100 U	2300 U	2100 U	2200 U	2100 U	11000 R	21000 U	2100 U	2200 U
4,6-Dinitro-2-Methylphenol	ug/kg	560 U	520 U	550 U	530 U	580 U	530 U	540 U	530 U	2800 U	5400 U	530 U	560 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	1.9 U	1.7 UJ	1.8 U	1.8 UJ	1.9 U	1.8 UJ	1.8 U	1.8 U	47 U	52 J	1.8 U	4.6 J
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	85 J
Benzo(a)anthracene (8270C SIM)	ug/kg	1.9 U	0.82 J	1.8 U	1.8	1.9 U	1.8 U	1.8 U	1.8 U	47 U	89 U	0.81 J	--
4-Chloro-3-Methylphenol	ug/kg	190 U	170 U	180 U	180 U	190 U	180 U	180 U	180 U	940 U	1800 U	180 U	190 U
N-Nitroso-Di-N-Propylamine	ug/kg	190 U	170 U	180 U	180 U	190 U	180 U	180 U	180 U	940 U	1800 U	180 U	190 U
Aniline	ug/kg	560 U	520 U	550 U	530 U	580 U	530 U	540 U	530 U	2800 R	5400 U	530 U	560 U
Benzoic Acid	ug/kg	560 U	520 U	550 U	530 U	580 U	530 U	540 U	530 U	2800 U	5400 U	530 U	490 J
Hexachloroethane	ug/kg	190 U	170 U	180 U	180 U	190 U	180 U	180 U	180 U	940 U	1800 U	180 U	190 U
4-Chlorophenyl Phenylether	ug/kg	190 U	170 U	180 U	180 U	190 U	180 U	180 U	180 U	940 U	1800 U	180 U	190 U
Hexachlorocyclopentadiene	ug/kg	560 U	520 U	550 U	530 U	580 U	530 U	540 U	530 U	2800 R	5400 U	530 U	560 U
Isophorone	ug/kg	190 U	170 U	180 U	180 U	190 U	180 U	180 U	180 U	940 U	1800 U	180 U	190 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	1.9 U	1.7 U	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	1.8 U	47 U	89 U	1.8 U	9.3 U
Diethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	940 U	1800 U	--	190 U
Diethylphthalate (8270C SIM)	ug/kg	20 U	19 UJ	20 U	19 UJ	21 U	19 UJ	19 U	19 U	--	--	19 U	--
Di-n-Butylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	940 U	1800 U	--	190 U
Di-n-Butylphthalate (8270C SIM)	ug/kg	20 U	19 UJ	20 U	7 J	21 U	19 UJ	19 U	19 U	--	--	19 U	--
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	200
Phenanthrene (8270C SIM)	ug/kg	1.9 U	0.75 J	1.8 U	3.4	1.9 U	1.8 U	1.8 U	1.8 U	120	89 U	3.4	--
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	940 U	1800 U	--	190 U
Butylbenzylphthalate (8270C SIM)	ug/kg	20 U	19 U	20 U	10 J	21 U	19 U	19 U	19 U	--	--	19 U	--
N-Nitrosodiphenylamine	ug/kg	190 U	170 U	180 U	180 U	190 U	180 U	180 U	180 U	940 U	1800 U	180 U	190 U
Fluorene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Fluorene (8270C SIM)	ug/kg	1.9 U	1.7 UJ	1.8 U	1.8 UJ	1.9 U	1.8 UJ	1.8 U	1.8 U	47 U	89 U	1.8 U	9.3 U
Carbazole	ug/kg	190 U	170 U	180 U	180 U	190 U	180 U	180 U	180 U	940 U	1800 U	180 U	190 U
Pentachlorophenol	ug/kg	560 U	520 U	550 U	530 U	580 U	530 U	540 U	530 U	2800 U	5400 U	530 U	560 U
2,4,6-Trichlorophenol	ug/kg	190 U	170 U	180 U	180 U	190 U	180 U	180 U	180 U	940 U	1800 U	180 U	190 U
2-Nitroaniline	ug/kg	190 U	170 U	180 U	180 U	190 U	180 U	180 U	180 U	940 U	1800 U	180 U	190 U
2-Nitrophenol	ug/kg	190 U	170 U	180 U	180 U	190 U	180 U	180 U	180 U	940 U	1800 U	180 U	190 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	71 J
1-Methylnaphthalene (8270C SIM)	ug/kg	1.9 U	1.7 U	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	1.8 U	69	89 U	1 J	--
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene (8270C SIM)	ug/kg	1.9 U	1.7 U	1.8 U	0.98 J	1.9 U	1.8 U	1.8 U	1.8 U	160	230	1.8 U	49
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	67 J
2-Methylnaphthalene (8270C SIM)	ug/kg	1.9 U	1.7 U	1.8 U	0.86 J	1.9 U	1.8 U	1.8 U	1.8 U	72	89 U	1.1 J	--
2-Chloronaphthalene	ug/kg	190 U	170 U	180 U	180 U	190 U	180 U	180 U	180 U	940 U	1800 U	180 U	190 U
3,3`-Dichlorobenzidine	ug/kg	370 UJ	350 U	360 UJ	350 U	390 UJ	350 U	360 UJ	350 U	1900 U	3600 U	350 U	370 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-5B

	Sample Name	SL-125-SA5B-SB-4.0-5.0	SL-126-SA5B-SS-0.0-0.5	SL-126-SA5B-SB-2.0-3.0	SL-128-SA5B-SS-0.0-0.5	SL-128-SA5B-SB-4.0-5.0	SL-129-SA5B-SS-0.0-0.5	SL-129-SA5B-SB-2.0-3.0	SL-131-SA5B-SS-0.0-0.5	SL-132-SA5B-SS-0.0-0.5	SL-133-SA5B-SS-0.0-0.5	SL-134-SA5B-SS-0.0-0.5	SL-135-SA5B-SS-0.0-0.5
	Sample Date	01/14/2011	12/14/2010	01/14/2011	12/14/2010	01/14/2011	12/14/2010	01/14/2011	12/15/2010	12/15/2010	12/15/2010	12/15/2010	12/15/2010
	Lab SDG	DE061	DE039	DE061	DE039	DE061	DE039	DE061	DE040	DE040	DE040	DE040	DE040
	Start Depth	4	0	2	0	4	0	2	0	0	0	0	0
	End Depth	5	0.5	3	0.5	5	0.5	3	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
Benzidine	ug/kg	3700 U	3500 U	3600 U	3500 U	3900 U	3500 U	3600 U	3500 U	19000 R	36000 U	3500 U	3700 U
2-Methylphenol	ug/kg	190 U	170 U	180 U	180 U	190 U	180 U	180 U	180 U	940 U	1800 U	180 U	190 U
2-Chlorophenol	ug/kg	190 U	170 U	180 U	180 U	190 U	180 U	180 U	180 U	940 U	1800 U	180 U	190 U
2,4,5-Trichlorophenol	ug/kg	190 U	170 U	180 U	180 U	190 U	180 U	180 U	180 U	940 U	1800 U	180 U	190 U
3-Nitroaniline	ug/kg	190 U	170 U	180 U	180 U	190 U	180 U	180 U	180 U	940 U	1800 U	180 U	190 U
Benzyl Alcohol	ug/kg	560 U	520 U	550 U	530 U	580 U	530 U	540 U	530 U	2800 U	5400 U	530 U	560 U
2,6-Dinitrotoluene	ug/kg	190 U	170 U	180 U	180 U	190 U	180 U	180 U	180 U	940 U	1800 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-5B

	Sample Name	SL-136-SA5B-SS-0.0-0.5	SL-137-SA5B-SS-0.0-0.5	SL-138-SA5B-SS-0.0-0.5	SL-139-SA5B-SS-0.0-0.5	SL-140-SA5B-SS-0.0-0.5	SL-141-SA5B-SS-0.0-0.5	SL-142-SA5B-SS-0.0-0.5	SL-143-SA5B-SS-0.0-0.5	SL-144-SA5B-SS-0.0-0.5	SL-145-SA5B-SB-4.0-5.0	SL-146-SA5B-SB-4.0-5.0	SL-147-SA5B-SS-0.0-0.5
	Sample Date	12/15/2010	01/06/2011	02/11/2011	12/13/2010	01/04/2011	02/11/2011	12/14/2010	12/14/2010	02/11/2011	12/22/2010	01/04/2011	12/16/2010
	Lab SDG	DE040	DE054	DE081	DE036	DE052	DE081	DE038	DE038	DE081	DE051	DE052	DE042
	Start Depth	0	0	0	0	0	0	0	0	0	4	4	0
	End Depth	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	5	5	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
N-Nitrosodimethylamine (1625C)	ng/kg	--	--	--	--	--	--	--	--	--	191 U	25.8 J	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	9.1 U	1.8 U	1.8 U	1.9 U	1.9 U	1.8 U	1.8 U	1.7 U	1.8 U	1.9 U	1.9 U	1.9 U
2,4-Dinitrotoluene	ug/kg	180 U	180 U	180 U	190 U	190 U	180 U	180 U	170 U	180 U	190 U	190 U	190 U
Nitrobenzene	ug/kg	180 U	180 U	180 U	190 U	190 U	180 U	180 U	170 U	180 U	190 U	190 U	190 U
1,4-Dichlorobenzene	ug/kg	180 U	180 U	180 U	190 U	190 U	180 U	180 U	170 U	180 U	190 U	190 U	190 U
1,2,4-Trichlorobenzene	ug/kg	180 U	180 U	180 U	190 U	190 U	180 U	180 U	170 U	180 U	190 U	190 U	190 U
1,3-Dichlorobenzene	ug/kg	180 U	180 U	180 U	190 U	190 U	180 U	180 U	170 U	180 U	190 U	190 U	190 U
Hexachlorobutadiene	ug/kg	180 U	180 U	180 U	190 U	190 U	180 U	180 U	170 U	180 U	190 U	190 U	190 U
1,2-Dichlorobenzene	ug/kg	180 U	180 U	180 U	190 U	190 U	180 U	180 U	170 U	180 U	190 U	190 U	190 U
4-Nitroaniline	ug/kg	180 U	180 U	180 U	190 U	190 U	180 U	180 U	170 U	180 U	190 U	190 U	190 U
4-Nitrophenol	ug/kg	550 U	550 U	550 U	570 U	580 U	530 U	530 U	520 U	540 U	570 U	580 U	570 U
4-Bromophenyl Phenyl Ether	ug/kg	180 U	180 U	180 U	190 U	190 U	180 U	180 U	170 U	180 U	190 U	190 U	190 U
2,4-Dimethylphenol	ug/kg	180 U	180 U	180 U	190 U	190 U	180 U	180 U	170 U	180 U	190 U	190 U	190 U
4-Methylphenol	ug/kg	180 U	180 U	180 U	190 U	190 U	180 U	180 U	170 U	180 U	190 U	190 U	190 U
4-Chloroaniline	ug/kg	180 U	180 U	180 U	190 U	190 U	180 U	180 U	170 U	180 U	190 U	190 U	190 U
3,5-Dimethylphenol	ug/kg	180 U	180 U	180 U	190 U	190 U	180 U	180 U	170 U	180 U	190 U	190 U	190 U
Phenol	ug/kg	180 U	180 U	180 U	190 U	190 U	180 U	180 U	170 U	180 U	190 U	190 U	190 U
Bis(2-Chloroethyl) ether	ug/kg	180 U	180 U	180 U	190 U	190 U	180 U	180 U	170 U	180 U	190 U	190 U	190 U
Bis(2-Chloroethoxy) methane	ug/kg	180 U	180 U	180 U	190 U	190 U	180 U	180 U	170 U	180 U	190 U	190 U	190 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	370 U	--	150 J	380 U	--	33 J	360 U	350 U	46 J	--	--	44 J
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	--	6.8 J	--	--	52 J	--	--	--	--	15 J	21 U	--
Di-N-Octyl Phthalate (8270C)	ug/kg	180 U	--	110 J	--	--	--	--	--	--	--	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	--	20 U	--	21 U	21 U	19 U	19 U	19 U	20 U	21 U	21 U	21 U
Hexachlorobenzene	ug/kg	180 U	180 U	180 U	190 U	190 U	180 U	180 U	170 U	180 U	190 U	190 U	190 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	9.1 U	1.8 U	0.85 J	1.9 U	0.46 J	1.8 U	1.8 U	1.7 U	1.8 U	1.9 U	1.9 U	1.9 U
2,4-Dichlorophenol	ug/kg	180 U	180 U	180 U	190 U	190 U	180 U	180 U	170 U	180 U	190 U	190 U	190 U
1,2-Diphenylhydrazine	ug/kg	180 U	180 U	180 U	190 U	190 U	180 U	180 U	170 U	180 U	190 U	190 U	190 U
Pyrene (8270C)	ug/kg	--	--	35 J	--	180 J	--	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	7.5 J	1.9	--	1.9	--	1.1 J	1.8 U	0.88 J	0.76 J	0.78 J	1.9 U	12
Dimethylphthalate (8270C)	ug/kg	180 U	--	--	--	--	--	--	--	--	--	--	--
Dimethylphthalate (8270C SIM)	ug/kg	--	20 U	20 U	21 U	21 U	19 U	19 U	19 U	20 U	21 U	21 U	21 U
Dibenzofuran	ug/kg	180 U	180 U	180 U	190 U	190 U	180 U	180 U	170 U	180 U	190 U	190 U	190 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	32 J	--	20 J	--	--	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	6.8 J	5	--	1 J	--	1.2 J	1.8 U	1.7 U	1.8 U	1.9 U	1.9 U	6.2
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	20 J	--	22 J	--	--	--	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	9.1 U	1.8	--	1.3 J	--	1.8 U	1.8 U	1.7 U	1.8 U	1.9 U	1.9 U	3.7
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	35 J	--	51 J	--	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	13	12	--	2.7	--	2.2	1.8 U	1.7 U	1.3 J	0.87 J	1.9 U	18
Fluoranthene (8270C)	ug/kg	--	--	38 J	--	170 J	--	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	8 J	0.97 J	--	2.3	--	1.2 J	1.8 U	1.1 J	1.8 U	1.9 U	1.9 U	10
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	31 J	--	--	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	9.1 U	1.8 U	2.3	0.96 J	--	1.7 J	1.8 U	1.7 U	1.8 U	1.9 U	1.9 U	4.8
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	9.1 U	1.8 U	1.8 U	1.9 U	1.9 U	1.8 U	1.8 U	1.7 U	1.8 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-5B

	Sample Name	SL-136-SA5B-SS-0.0-0.5	SL-137-SA5B-SS-0.0-0.5	SL-138-SA5B-SS-0.0-0.5	SL-139-SA5B-SS-0.0-0.5	SL-140-SA5B-SS-0.0-0.5	SL-141-SA5B-SS-0.0-0.5	SL-142-SA5B-SS-0.0-0.5	SL-143-SA5B-SS-0.0-0.5	SL-144-SA5B-SS-0.0-0.5	SL-145-SA5B-SB-4.0-5.0	SL-146-SA5B-SB-4.0-5.0	SL-147-SA5B-SS-0.0-0.5
	Sample Date	12/15/2010	01/06/2011	02/11/2011	12/13/2010	01/04/2011	02/11/2011	12/14/2010	12/14/2010	02/11/2011	12/22/2010	01/04/2011	12/16/2010
	Lab SDG	DE040	DE054	DE081	DE036	DE052	DE081	DE038	DE038	DE081	DE051	DE052	DE042
	Start Depth	0	0	0	0	0	0	0	0	0	4	4	0
	End Depth	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	5	5	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Chrysene (8270C)	ug/kg	--	--	31 J	--	66 J	--	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	13	9.5	--	2.7	--	1.9	0.41 J	0.57 J	1.3 J	2.2	1.9 U	26
bis(2-Chloroisopropyl) ether	ug/kg	180 U	180 U	180 U	190 U	190 U	180 U	180 U	170 U	180 U	190 U	190 U	190 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	22 J	--	40 J	--	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	7.8 J	4.9	--	1.2 J	--	1.1 J	1.8 U	1.7 U	0.86 J	1.9 U	1.9 U	15
2,4-Dinitrophenol	ug/kg	2200 U	2200 U	1100 U	2300 U	2300 U	1100 U	2100 U	2100 U	1100 U	2300 U	2300 U	2300 U
4,6-Dinitro-2-Methylphenol	ug/kg	550 U	550 U	550 U	570 U	580 U	530 U	530 U	520 U	540 U	570 U	580 U	570 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	9.1 U	2.5	0.77 J	1.9 U	1.5 J	1.8 U	1.8 U	1.7 U	1.8 U	1.9 U	1.9 U	1.9
Benzo(a)anthracene (8270C)	ug/kg	--	--	22 J	--	74 J	--	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	6.4 J	1.9	--	0.89 J	--	1.8 U	1.8 U	1.7 U	0.82 J	1.9 U	1.9 U	15
4-Chloro-3-Methylphenol	ug/kg	180 U	180 U	180 U	190 U	190 U	180 U	180 U	170 U	180 U	190 U	190 U	190 U
N-Nitroso-Di-N-Propylamine	ug/kg	180 U	180 U	180 U	190 U	190 U	180 U	180 U	170 U	180 U	190 U	190 U	190 U
Aniline	ug/kg	550 U	550 U	550 U	570 U	580 U	530 U	530 U	520 U	540 U	570 U	580 U	570 U
Benzoic Acid	ug/kg	550 U	550 U	550 U	570 U	580 U	530 U	530 U	520 U	540 U	570 U	580 U	570 U
Hexachloroethane	ug/kg	180 U	180 U	180 U	190 U	190 U	180 U	180 U	170 U	180 U	190 U	190 U	190 U
4-Chlorophenyl Phenylether	ug/kg	180 U	180 U	180 U	190 U	190 U	180 U	180 U	170 U	180 U	190 U	190 U	190 U
Hexachlorocyclopentadiene	ug/kg	550 U	550 U	550 U	570 U	580 U	530 U	530 U	520 U	540 U	570 U	580 U	570 U
Isophorone	ug/kg	180 U	180 U	180 U	190 U	190 U	180 U	180 U	170 U	180 U	190 U	190 U	190 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	9.1 U	1.8 U	1.8 U	1.9 U	1.9 U	1.8 U	1.8 U	1.7 U	1.8 U	1.9 U	1.9 U	1.9 U
Diethylphthalate (8270C)	ug/kg	180 U	--	--	--	--	--	--	--	--	--	--	--
Diethylphthalate (8270C SIM)	ug/kg	--	20 U	20 U	21 U	21 U	19 U	19 U	19 U	20 U	21 U	21 U	21 U
Di-n-Butylphthalate (8270C)	ug/kg	180 U	--	60 J	--	--	--	--	--	--	--	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	--	20 U	--	9.6 J	21 U	19 U	19 U	19 U	20 U	7.2 J	21 U	21 U
Phenanthrene (8270C)	ug/kg	--	--	--	--	53 J	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	4.4 J	0.96 J	2.9	1.1 J	--	1.5 J	1.8 U	1.7 U	1.8 U	1.4 J	1.9 U	2.8
Butylbenzylphthalate (8270C)	ug/kg	180 U	--	160 J	--	--	--	--	--	--	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	--	20 U	--	21 U	21 U	19 U	19 U	19 U	20 U	21 U	21 U	21 U
N-Nitrosodiphenylamine	ug/kg	180 U	180 U	180 U	190 U	190 U	180 U	180 U	170 U	180 U	190 U	190 U	190 U
Fluorene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Fluorene (8270C SIM)	ug/kg	9.1 U	1.8 U	1.8 U	1.9 U	1.9 U	1.8 U	1.8 U	1.7 U	1.8 U	1.9 U	1.9 U	1.9 U
Carbazole	ug/kg	180 U	180 U	180 U	190 U	190 U	180 U	180 U	170 U	180 U	190 U	190 U	190 U
Pentachlorophenol	ug/kg	550 U	550 U	550 U	570 U	580 U	530 U	530 U	520 U	540 U	570 U	580 U	570 U
2,4,6-Trichlorophenol	ug/kg	180 U	180 U	180 U	190 U	190 U	180 U	180 U	170 U	180 U	190 U	190 U	190 U
2-Nitroaniline	ug/kg	180 U	180 U	180 U	190 U	190 U	180 U	180 U	170 U	180 U	190 U	190 U	190 U
2-Nitrophenol	ug/kg	180 U	180 U	180 U	190 U	190 U	180 U	180 U	170 U	180 U	190 U	190 U	190 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	9.1 U	1.8 U	1.8 U	1.9 U	1.9 U	1.8 U	1.8 U	1.7 U	1.8 U	1.9 U	1.9 U	1.9 U
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene (8270C SIM)	ug/kg	24	1.8 U	1 J	1.9 U	1.9 U	1.8 U	1.8 U	1.7 U	1.8 U	1.9 U	1.9 U	1.9 U
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	9.1 U	1.8 U	1.8 U	1.9 U	1.9 U	1.8 U	1.8 U	1.7 U	1.8 U	0.89 J	1.9 U	1.9 U
2-Chloronaphthalene	ug/kg	180 U	180 U	180 U	190 U	190 U	180 U	180 U	170 U	180 U	190 U	190 U	190 U
3,3`-Dichlorobenzidine	ug/kg	370 U	370 U	370 U	380 UJ	390 U	360 U	360 U	350 U	360 U	380 U	380 U	380 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-5B

	Sample Name	SL-136-SA5B-SS-0.0-0.5	SL-137-SA5B-SS-0.0-0.5	SL-138-SA5B-SS-0.0-0.5	SL-139-SA5B-SS-0.0-0.5	SL-140-SA5B-SS-0.0-0.5	SL-141-SA5B-SS-0.0-0.5	SL-142-SA5B-SS-0.0-0.5	SL-143-SA5B-SS-0.0-0.5	SL-144-SA5B-SS-0.0-0.5	SL-145-SA5B-SB-4.0-5.0	SL-146-SA5B-SB-4.0-5.0	SL-147-SA5B-SS-0.0-0.5
	Sample Date	12/15/2010	01/06/2011	02/11/2011	12/13/2010	01/04/2011	02/11/2011	12/14/2010	12/14/2010	02/11/2011	12/22/2010	01/04/2011	12/16/2010
	Lab SDG	DE040	DE054	DE081	DE036	DE052	DE081	DE038	DE038	DE081	DE051	DE052	DE042
	Start Depth	0	0	0	0	0	0	0	0	0	4	4	0
	End Depth	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	5	5	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Benzidine	ug/kg	3700 U	3700 U	3700 U	3800 U	3900 U	3600 U	3600 U	3500 U	3600 U	3800 U	3800 U	3800 U
2-Methylphenol	ug/kg	180 U	180 U	180 U	190 U	190 U	180 U	180 U	170 U	180 U	190 U	190 U	190 U
2-Chlorophenol	ug/kg	180 U	180 U	180 U	190 U	190 U	180 U	180 U	170 U	180 U	190 U	190 U	190 U
2,4,5-Trichlorophenol	ug/kg	180 U	180 U	180 U	190 U	190 U	180 U	180 U	170 U	180 U	190 U	190 U	190 U
3-Nitroaniline	ug/kg	180 U	180 U	180 U	190 U	190 U	180 U	180 U	170 U	180 U	190 U	190 U	190 U
Benzyl Alcohol	ug/kg	550 U	550 U	550 U	570 U	580 U	530 U	530 U	520 U	540 U	570 U	580 U	570 U
2,6-Dinitrotoluene	ug/kg	180 U	180 U	180 U	190 U	190 U	180 U	180 U	170 U	180 U	190 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-5B

	Sample Name	SL-148-SA5B-SB-4.0-5.0	SL-149-SA5B-SS-0.0-0.5	SL-149-SA5B-SB-3.5-4.5	SL-150-SA5B-SS-0.0-0.5	SL-150-SA5B-SB-4.0-5.0	SL-151-SA5B-SB-4.0-5.0	SL-151-SA5B-SB-7.0-8.0	SL-152-SA5B-SB-4.0-5.0	SL-152-SA5B-SB-9.0-10.0	SL-153-SA5B-SS-0.0-0.5	SL-153-SA5B-SB-4.0-5.0	SL-154-SA5B-SB-4.0-5.0
	Sample Date	01/25/2011	12/15/2010	01/25/2011	12/15/2010	01/25/2011	01/24/2011	01/24/2011	01/24/2011	01/24/2011	12/15/2010	01/24/2011	01/24/2011
	Lab SDG	DE068	DE040	DE068	DE040	DE068	DE067	DE067	DE067	DE067	DE040	DE067	DE067
	Start Depth	4	0	3.5	0	4	4	7	4	9	0	4	4
	End Depth	5	0.5	4.5	0.5	5	5	8	5	10	0.5	5	5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
N-Nitrosodimethylamine (1625C)	ng/kg	31.5 J	--	--	--	--	--	--	--	--	--	--	20.9 J
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.9 U	1.7 U	1.8 U	8.8 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	9.6 U	1.8 U	1.9 U
2,4-Dinitrotoluene	ug/kg	190 U	170 U	180 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U
Nitrobenzene	ug/kg	190 U	170 U	180 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U
1,4-Dichlorobenzene	ug/kg	190 U	170 U	180 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U
1,2,4-Trichlorobenzene	ug/kg	190 U	170 U	180 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U
1,3-Dichlorobenzene	ug/kg	190 U	170 U	180 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U
Hexachlorobutadiene	ug/kg	190 U	170 U	180 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U
1,2-Dichlorobenzene	ug/kg	190 U	170 U	180 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U
4-Nitroaniline	ug/kg	190 U	170 U	180 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U
4-Nitrophenol	ug/kg	570 U	520 U	530 U	530 U	560 U	580 U	580 U	580 U	580 U	580 U	550 U	570 U
4-Bromophenyl Phenyl Ether	ug/kg	190 U	170 U	180 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U
2,4-Dimethylphenol	ug/kg	190 U	170 U	180 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U
4-Methylphenol	ug/kg	190 U	170 U	180 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U
4-Chloroaniline	ug/kg	190 U	170 U	180 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U
3,5-Dimethylphenol	ug/kg	190 U	170 U	180 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U
Phenol	ug/kg	190 U	170 U	180 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U
Bis(2-Chloroethyl) ether	ug/kg	190 U	170 U	180 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U
Bis(2-Chloroethoxy) methane	ug/kg	190 U	170 U	180 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	380 U	170 J	350 U	48 J	380 U	--	--	390 U	390 U	51 J	--	380 U
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	--	--	--	--	--	14 J	8 J	--	--	--	7.9 J	--
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	--	180 U	--	--	--	--	--	--	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	21 U	19 U	19 U	--	20 U	21 U	21 U	21 U	21 U	100 U	20 U	20 U
Hexachlorobenzene	ug/kg	190 U	170 U	180 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	1.9 U	1.7 U	1.8 U	8.8 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	9.6 U	1.8 U	1.9 U
2,4-Dichlorophenol	ug/kg	190 U	170 U	180 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U
1,2-Diphenylhydrazine	ug/kg	190 U	170 U	180 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U
Pyrene (8270C)	ug/kg	--	--	--	22 J	--	--	--	--	--	22 J	--	--
Pyrene (8270C SIM)	ug/kg	1.9 U	3.9	1.8 U	--	1.2 J	1.9 U	1.9 U	1.9 U	1.9 U	--	1.8 U	1.9 U
Dimethylphthalate (8270C)	ug/kg	--	--	--	180 U	--	--	--	--	--	--	--	--
Dimethylphthalate (8270C SIM)	ug/kg	21 U	19 U	19 U	--	20 U	21 U	21 U	21 U	21 U	100 U	20 U	20 U
Dibenzofuran	ug/kg	190 U	170 U	180 U	180 U	190 U	190 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	2.6	1.8 U	4.3 J	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	4.4 J	1.8 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	1.3 J	1.8 U	8.8 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	9.6 U	1.8 U	1.9 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	1.9 U	5.5	1.8 U	14	1 J	1.9 U	1.9 U	1.9 U	1.9 U	13	1.8 U	1.9 U
Fluoranthene (8270C)	ug/kg	--	--	--	19 J	--	--	--	--	--	20 J	--	--
Fluoranthene (8270C SIM)	ug/kg	1.9 U	4.3	1.8 U	--	1.8 J	1.9 U	1.9 U	1.9 U	1.9 U	--	1.8 U	1.9 U
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	1.9 U	1.6 J	1.8 U	5.1 J	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	9.6 U	1.8 U	1.9 U
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	1.9 U	1.7 U	1.8 U	1.8 J	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	9.6 U	1.8 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-5B

		Sample Name	SL-148-SA5B-SB-4.0-5.0	SL-149-SA5B-SS-0.0-0.5	SL-149-SA5B-SB-3.5-4.5	SL-150-SA5B-SS-0.0-0.5	SL-150-SA5B-SB-4.0-5.0	SL-151-SA5B-SB-4.0-5.0	SL-151-SA5B-SB-7.0-8.0	SL-152-SA5B-SB-4.0-5.0	SL-152-SA5B-SB-9.0-10.0	SL-153-SA5B-SS-0.0-0.5	SL-153-SA5B-SB-4.0-5.0	SL-154-SA5B-SB-4.0-5.0
		Sample Date	01/25/2011	12/15/2010	01/25/2011	12/15/2010	01/25/2011	01/24/2011	01/24/2011	01/24/2011	01/24/2011	12/15/2010	01/24/2011	01/24/2011
		Lab SDG	DE068	DE040	DE068	DE040	DE068	DE067	DE067	DE067	DE067	DE040	DE067	DE067
		Start Depth	4	0	3.5	0	4	4	7	4	9	0	4	4
		End Depth	5	0.5	4.5	0.5	5	5	8	5	10	0.5	5	5
Chemical Name	Unit		Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Chrysene (8270C)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg		1.9 U	3.8	1.8 U	11	0.83 J	1.9 U	1.9 U	1.9 U	1.9 U	11	1.8 U	1.9 U
bis(2-Chloroisopropyl) ether	ug/kg		190 U	170 U	180 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U
Benzo(a)pyrene (8270C)	ug/kg		--	--	--	--	--	--	--	--	--	19 J	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg		1.9 U	2.8	1.8 U	7.1 J	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	--	1.8 U	1.9 U
2,4-Dinitrophenol	ug/kg		1100 U	2100 U	1100 U	2100 U	1100 U	1200 U	1200 U	1200 U	1200 U	2300 U	1100 U	1100 U
4,6-Dinitro-2-Methylphenol	ug/kg		570 U	520 U	530 U	530 U	560 U	580 U	580 U	580 U	580 U	580 U	550 U	570 U
Dibenzo(a,h)anthracene (8270C)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg		1.9 U	1.7 U	1.8 U	8.8 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	9.6 U	1.8 U	1.9 U
Benzo(a)anthracene (8270C)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg		1.9 U	2.1	1.8 U	6.6 J	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	6.1 J	1.8 U	1.9 U
4-Chloro-3-Methylphenol	ug/kg		190 U	170 U	180 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U
N-Nitroso-Di-N-Propylamine	ug/kg		190 U	170 U	180 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U
Aniline	ug/kg		570 U	520 U	530 U	530 U	560 U	580 U	580 U	580 U	580 U	580 U	550 U	570 U
Benzoic Acid	ug/kg		570 U	520 U	530 U	530 U	560 U	580 U	580 U	580 U	580 U	580 U	550 U	570 U
Hexachloroethane	ug/kg		190 U	170 U	180 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U
4-Chlorophenyl Phenylether	ug/kg		190 U	170 U	180 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U
Hexachlorocyclopentadiene	ug/kg		570 U	520 U	530 U	530 U	560 U	580 U	580 U	580 U	580 U	580 U	550 U	570 U
Isophorone	ug/kg		190 U	170 U	180 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U
Acenaphthene (8270C)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg		1.9 U	1.7 U	1.8 U	8.8 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	9.6 U	1.8 U	1.9 U
Diethylphthalate (8270C)	ug/kg		--	--	--	180 U	--	--	--	--	--	--	--	--
Diethylphthalate (8270C SIM)	ug/kg		21 U	19 U	16 J	--	20 U	21 U	21 U	21 U	21 U	100 U	20 U	20 U
Di-n-Butylphthalate (8270C)	ug/kg		--	--	--	180 U	--	--	--	--	--	23 J	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg		21 U	19 U	19 U	--	20 U	21 U	21 U	21 U	21 U	--	20 U	20 U
Phenanthrene (8270C)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg		1.9 U	2.9	1.8 U	7.5 J	0.89 J	1.9 U	1.9 U	1.9 U	1.9 U	10	1.8 U	1.9 U
Butylbenzylphthalate (8270C)	ug/kg		--	--	--	180 U	--	--	--	--	--	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg		21 U	19 U	19 U	--	20 U	21 U	21 U	21 U	21 U	100 U	20 U	20 U
N-Nitrosodiphenylamine	ug/kg		190 U	170 U	180 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U
Fluorene (8270C)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--
Fluorene (8270C SIM)	ug/kg		1.9 U	1.7 U	1.8 U	8.8 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	9.6 U	1.8 U	1.9 U
Carbazole	ug/kg		190 U	170 U	180 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U
Pentachlorophenol	ug/kg		570 U	520 U	530 U	530 U	560 U	580 U	580 U	580 U	580 U	580 U	550 U	570 U
2,4,6-Trichlorophenol	ug/kg		190 U	170 U	180 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U
2-Nitroaniline	ug/kg		190 U	170 U	180 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U
2-Nitrophenol	ug/kg		190 U	170 U	180 U	180 U	190 U	190 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	0.93 J	1.8 U	8.8 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	5 J	1.8 U	1.9 U
Naphthalene (8270C)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene (8270C SIM)	ug/kg		1.9 U	0.94 J	1.8 U	24	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	27	1.8 U	1.9 U
2-Methylnaphthalene (8270C)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg		1.9 U	0.91 J	1.8 U	4.5 J	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	6.4 J	1.8 U	1.9 U
2-Chloronaphthalene	ug/kg		190 U	170 U	180 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U
3,3`-Dichlorobenzidine	ug/kg		380 U	350 U	350 U	350 U	380 U	380 U	390 U	390 U	390 U	380 U	370 U	380 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-5B

	Sample Name	SL-148-SA5B-SB-4.0-5.0	SL-149-SA5B-SS-0.0-0.5	SL-149-SA5B-SB-3.5-4.5	SL-150-SA5B-SS-0.0-0.5	SL-150-SA5B-SB-4.0-5.0	SL-151-SA5B-SB-4.0-5.0	SL-151-SA5B-SB-7.0-8.0	SL-152-SA5B-SB-4.0-5.0	SL-152-SA5B-SB-9.0-10.0	SL-153-SA5B-SS-0.0-0.5	SL-153-SA5B-SB-4.0-5.0	SL-154-SA5B-SB-4.0-5.0
	Sample Date	01/25/2011	12/15/2010	01/25/2011	12/15/2010	01/25/2011	01/24/2011	01/24/2011	01/24/2011	01/24/2011	12/15/2010	01/24/2011	01/24/2011
	Lab SDG	DE068	DE040	DE068	DE040	DE068	DE067	DE067	DE067	DE067	DE040	DE067	DE067
	Start Depth	4	0	3.5	0	4	4	7	4	9	0	4	4
	End Depth	5	0.5	4.5	0.5	5	5	8	5	10	0.5	5	5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Benzidine	ug/kg	3800 U	3500 U	3500 U	3500 U	3800 U	3800 U	3900 U	3900 U	3900 U	3800 U	3700 U	3800 U
2-Methylphenol	ug/kg	190 U	170 U	180 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U
2-Chlorophenol	ug/kg	190 U	170 U	180 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U
2,4,5-Trichlorophenol	ug/kg	190 U	170 U	180 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U
3-Nitroaniline	ug/kg	190 U	170 U	180 U	180 U	190 U	190 U	190 U	190 U	190 U	190 U	180 U	190 U
Benzyl Alcohol	ug/kg	570 U	520 U	530 U	530 U	560 U	580 U	580 U	580 U	580 U	580 U	550 U	570 U
2,6-Dinitrotoluene	ug/kg	190 U	170 U	180 U	180 U	190 U	190 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-5B

	Sample Name	SL-155-SA5B-SS-0.0-0.5	SL-155-SA5B-SB-3.5-4.5	SL-156-SA5B-SS-0.0-0.5	SL-156-SA5B-SB-4.0-5.0	SL-157-SA5B-SB-4.0-5.0	SL-157-SA5B-SB-9.0-10.0	SL-158-SA5B-SB-4.0-5.0	SL-159-SA5B-SS-0.0-0.5	SL-159-SA5B-SB-4.0-5.0	SL-159-SA5B-SB-8.0-9.0	SL-160-SA5B-SS-0.0-0.5	SL-160-SA5B-SB-4.0-5.0
	Sample Date	12/15/2010	01/24/2011	12/15/2010	01/25/2011	12/22/2010	12/22/2010	12/22/2010	12/21/2010	02/04/2011	02/04/2011	12/17/2010	02/07/2011
	Lab SDG	DE040	DE067	DE040	DE068	DE051	DE051	DE051	DE049	DE076	DE076	DE044	DE077
	Start Depth	0	3.5	0	4	4	9	4	0	4	8	0	4
	End Depth	0.5	4.5	0.5	5	5	10	5	0.5	5	9	0.5	5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
N-Nitrosodimethylamine (1625C)	ng/kg	--	28.9 J	--	44.6	--	--	--	--	--	--	--	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.7 U	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U	1.3 J	2 U	1.9 U	1.8 U
2,4-Dinitrotoluene	ug/kg	170 U	190 U	180 U	190 U	180 U	190 U	180 U	190 U	190 U	200 U	190 U	180 U
Nitrobenzene	ug/kg	170 U	190 U	180 U	190 U	180 U	190 U	180 U	190 U	190 U	200 U	190 U	180 U
1,4-Dichlorobenzene	ug/kg	170 U	190 U	180 U	190 U	180 U	190 U	180 U	190 U	190 U	200 U	190 U	180 U
1,2,4-Trichlorobenzene	ug/kg	170 U	190 U	180 U	190 U	180 U	190 U	180 U	190 U	190 U	200 U	190 U	180 U
1,3-Dichlorobenzene	ug/kg	170 U	190 U	180 U	190 U	180 U	190 U	180 U	190 U	190 U	200 U	190 U	180 U
Hexachlorobutadiene	ug/kg	170 U	190 U	180 U	190 U	180 U	190 U	180 U	190 U	190 U	200 U	190 U	180 U
1,2-Dichlorobenzene	ug/kg	170 U	190 U	180 U	190 U	180 U	190 U	180 U	190 U	190 U	200 U	190 U	180 U
4-Nitroaniline	ug/kg	170 U	190 U	180 U	190 U	180 U	190 U	180 U	190 U	190 U	200 U	190 U	180 U
4-Nitrophenol	ug/kg	520 U	560 U	540 U	570 U	550 U	560 U	550 U	580 U	570 U	610 U	560 U	550 U
4-Bromophenyl Phenyl Ether	ug/kg	170 U	190 U	180 U	190 U	180 U	190 U	180 U	190 U	190 U	200 U	190 U	180 U
2,4-Dimethylphenol	ug/kg	170 U	190 U	180 U	190 U	180 U	190 U	180 U	190 U	190 U	200 U	190 U	180 U
4-Methylphenol	ug/kg	170 U	190 U	180 U	190 U	180 U	190 U	180 U	190 U	190 U	200 U	190 U	180 U
4-Chloroaniline	ug/kg	170 U	190 U	180 U	190 U	180 U	190 U	180 U	190 U	190 U	200 U	190 U	180 U
3,5-Dimethylphenol	ug/kg	170 U	190 U	180 U	190 U	180 U	190 U	180 U	190 U	190 U	200 U	190 U	180 U
Phenol	ug/kg	170 U	190 U	180 U	190 U	180 U	190 U	180 U	190 U	190 U	200 U	190 U	180 U
Bis(2-Chloroethyl) ether	ug/kg	170 U	190 U	180 U	190 U	180 U	190 U	180 U	190 U	190 U	200 U	190 U	180 U
Bis(2-Chloroethoxy) methane	ug/kg	170 U	190 U	180 U	190 U	180 U	190 U	180 U	190 U	190 U	200 U	190 U	180 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	31 J	--	--	380 U	--	--	--	20 J	--	--	--	370 U
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	--	7.3 J	9.6 J	--	20 U	9.4 J	20 U	--	11 J	8.3 J	9.7 J	--
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	180 U
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	19 U	20 U	19 U	20 U	20 U	20 U	20 U	21 U	10 J	22 U	20 U	--
Hexachlorobenzene	ug/kg	170 U	190 U	180 U	190 U	180 U	190 U	180 U	190 U	190 U	200 U	190 U	180 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	2.3	1.9 U	230	1.9 U	1.8 U	1.9 U	1.8 U	1.3 J	4.1	2 U	1 J	1.1 J
2,4-Dichlorophenol	ug/kg	170 U	190 U	180 U	190 U	180 U	190 U	180 U	190 U	190 U	200 U	190 U	180 U
1,2-Diphenylhydrazine	ug/kg	170 U	190 U	180 U	190 U	180 U	190 U	180 U	190 U	190 U	200 U	190 U	180 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	21	1.9 U	1400	1.9 U	1.8 U	1.9 U	1.8 U	10	4.7	2 U	4.7	1.5 J
Dimethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Dimethylphthalate (8270C SIM)	ug/kg	19 U	20 U	19 U	20 U	20 U	20 U	20 U	21 U	20 U	22 U	20 U	20 U
Dibenzofuran	ug/kg	170 U	190 U	180 U	190 U	180 U	190 U	180 U	190 U	190 U	200 U	190 U	180 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	3.7	1.9 U	160	1.9 U	1.8 U	1.9 U	1.8 U	1.3 J	4.7	2 U	7.4	1.7 J
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	3.4	1.9 U	140	1.9 U	1.8 U	1.9 U	1.8 U	1.1 J	4.4	2 U	4.7	1.4 J
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	17	1.9 U	440	1.9 U	1.8 U	1.9 U	1.8 U	6.3	4.7	2 U	8.2	1.3 J
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	24	1.9 U	970	1.9 U	1.8 U	1.9 U	1.8 U	16 J	4.3	2 U	3.8	1.4 J
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	5	1.9 U	210	1.9 U	1.8 U	1.9 U	1.8 U	2.2	4.8	2 U	2.9	1.3 J
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	1.7 U	1.9 U	55	1.9 U	1.8 U	1.9 U	1.8 U	0.73 J	3.1	2 U	0.38 J	0.4 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-5B

	Sample Name	SL-155-SA5B-SS-0.0-0.5	SL-155-SA5B-SB-3.5-4.5	SL-156-SA5B-SS-0.0-0.5	SL-156-SA5B-SB-4.0-5.0	SL-157-SA5B-SB-4.0-5.0	SL-157-SA5B-SB-9.0-10.0	SL-158-SA5B-SB-4.0-5.0	SL-159-SA5B-SS-0.0-0.5	SL-159-SA5B-SB-4.0-5.0	SL-159-SA5B-SB-8.0-9.0	SL-160-SA5B-SS-0.0-0.5	SL-160-SA5B-SB-4.0-5.0
	Sample Date	12/15/2010	01/24/2011	12/15/2010	01/25/2011	12/22/2010	12/22/2010	12/22/2010	12/21/2010	02/04/2011	02/04/2011	12/17/2010	02/07/2011
	Lab SDG	DE040	DE067	DE040	DE068	DE051	DE051	DE051	DE049	DE076	DE076	DE044	DE077
	Start Depth	0	3.5	0	4	4	9	4	0	4	8	0	4
	End Depth	0.5	4.5	0.5	5	5	10	5	0.5	5	9	0.5	5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Chrysene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	15	1.9 U	660	1.9 U	1.8 U	1.9 U	1.8 U	7.5	4.9	2 U	3.8	1.4 J
bis(2-Chloroisopropyl) ether	ug/kg	170 U	190 U	180 U	190 U	180 U	190 U	180 U	190 U	190 U	200 U	190 U	180 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	9.4	1.9 U	410	1.9 U	1.8 U	1.9 U	1.8 U	1.5 J	4.3	2 U	2.6	1.1 J
2,4-Dinitrophenol	ug/kg	2100 U	1100 U	2100 U	1100 U	2200 U	2200 U	2200 U	2300 U	1100 U	1200 U	2200 U	1100 U
4,6-Dinitro-2-Methylphenol	ug/kg	520 U	560 U	540 U	570 U	550 U	560 U	550 U	580 U	570 U	610 U	560 U	550 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	1.2 J	1.9 U	46	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U	4.5	2 U	1.9 U	1.1 J
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	9.7	1.9 U	550	1.9 U	1.8 U	1.9 U	1.8 U	1.9	4.8	2 U	2.3	1.4 J
4-Chloro-3-Methylphenol	ug/kg	170 U	190 U	180 U	190 U	180 U	190 U	180 U	190 U	190 U	200 U	190 U	180 U
N-Nitroso-Di-N-Propylamine	ug/kg	170 U	190 U	180 U	190 U	180 U	190 U	180 U	190 U	190 U	200 U	190 U	180 U
Aniline	ug/kg	520 U	560 U	540 U	570 U	550 U	560 U	550 U	580 U	570 U	610 U	560 U	550 U
Benzoic Acid	ug/kg	520 U	560 U	540 U	570 U	550 U	560 U	550 U	580 U	570 U	610 U	560 U	550 U
Hexachloroethane	ug/kg	170 U	190 U	180 U	190 U	180 U	190 U	180 U	190 U	190 U	200 U	190 U	180 U
4-Chlorophenyl Phenylether	ug/kg	170 U	190 U	180 U	190 U	180 U	190 U	180 U	190 U	190 U	200 U	190 U	180 U
Hexachlorocyclopentadiene	ug/kg	520 U	560 U	540 U	570 U	550 U	560 U	550 U	580 U	570 U	610 U	560 U	550 U
Isophorone	ug/kg	170 U	190 U	180 U	190 U	180 U	190 U	180 U	190 U	190 U	200 U	190 U	180 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	2	1.9 U	58	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U	3.3	2 U	1.9 U	1.8 U
Diethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Diethylphthalate (8270C SIM)	ug/kg	19 U	20 U	19 U	20 U	20 U	20 U	20 U	21 U	20 U	22 U	20 U	20 U
Di-n-Butylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	19 U	20 U	19 U	20 U	20 U	20 U	8.2 J	21 U	8.9 J	22 U	20 U	7 J
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	18	1.9 U	1800	1.9 U	1.8 U	1.9 U	1.8 U	8.1	4.3	2 U	2.3	1.4 J
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	19 U	20 U	19 U	20 U	20 U	20 U	20 U	21 U	8.7 J	22 U	20 U	20 U
N-Nitrosodiphenylamine	ug/kg	170 U	190 U	180 U	190 U	180 U	190 U	180 U	190 U	190 U	200 U	190 U	180 U
Fluorene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Fluorene (8270C SIM)	ug/kg	0.92 J	1.9 U	190	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U	4	2 U	1.9 U	0.79 J
Carbazole	ug/kg	170 U	190 U	180 U	190 U	180 U	190 U	180 U	190 U	190 U	200 U	190 U	180 U
Pentachlorophenol	ug/kg	520 U	560 U	540 U	570 U	550 U	560 U	550 U	580 U	570 U	610 U	560 U	550 U
2,4,6-Trichlorophenol	ug/kg	170 U	190 U	180 U	190 U	180 U	190 U	180 U	190 U	190 U	200 U	190 U	180 U
2-Nitroaniline	ug/kg	170 U	190 U	180 U	190 U	180 U	190 U	180 U	190 U	190 U	200 U	190 U	180 U
2-Nitrophenol	ug/kg	170 U	190 U	180 U	190 U	180 U	190 U	180 U	190 U	190 U	200 U	190 U	180 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	1.2 J	1.9 U	330	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U	2.6	2 U	1.9 U	1.8 U
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene (8270C SIM)	ug/kg	1.2 J	1.9 U	330	1.9 U	1.8 U	1.9 U	1.8 U	2.6	2.2	2 U	0.8 J	0.9 J
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	1.3 J	1.9 U	340	1.9 U	1.8 U	1.9 U	1.8 U	1.1 J	2.3	2 U	1.9 U	1.8 U
2-Chloronaphthalene	ug/kg	170 U	190 U	180 U	190 U	180 U	190 U	180 U	190 U	190 U	200 U	190 U	180 U
3,3`-Dichlorobenzidine	ug/kg	350 U	380 U	360 U	380 U	370 U	370 U	370 U	390 U	380 U	410 U	370 UJ	370 U

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

Appendix A6
Semivolatile Organics - Validated Data
HSA-5B

	Sample Name	SL-155-SA5B-SS-0.0-0.5	SL-155-SA5B-SB-3.5-4.5	SL-156-SA5B-SS-0.0-0.5	SL-156-SA5B-SB-4.0-5.0	SL-157-SA5B-SB-4.0-5.0	SL-157-SA5B-SB-9.0-10.0	SL-158-SA5B-SB-4.0-5.0	SL-159-SA5B-SS-0.0-0.5	SL-159-SA5B-SB-4.0-5.0	SL-159-SA5B-SB-8.0-9.0	SL-160-SA5B-SS-0.0-0.5	SL-160-SA5B-SB-4.0-5.0
	Sample Date	12/15/2010	01/24/2011	12/15/2010	01/25/2011	12/22/2010	12/22/2010	12/22/2010	12/21/2010	02/04/2011	02/04/2011	12/17/2010	02/07/2011
	Lab SDG	DE040	DE067	DE040	DE068	DE051	DE051	DE051	DE049	DE076	DE076	DE044	DE077
	Start Depth	0	3.5	0	4	4	9	4	0	4	8	0	4
	End Depth	0.5	4.5	0.5	5	5	10	5	0.5	5	9	0.5	5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Benzidine	ug/kg	3500 U	3800 U	3600 U	3800 U	3700 U	3700 U	3700 U	3900 U	3800 U	4100 U	3700 U	3700 U
2-Methylphenol	ug/kg	170 U	190 U	180 U	190 U	180 U	190 U	180 U	190 U	190 U	200 U	190 U	180 U
2-Chlorophenol	ug/kg	170 U	190 U	180 U	190 U	180 U	190 U	180 U	190 U	190 U	200 U	190 U	180 U
2,4,5-Trichlorophenol	ug/kg	170 U	190 U	180 U	190 U	180 U	190 U	180 U	190 U	190 U	200 U	190 U	180 U
3-Nitroaniline	ug/kg	170 U	190 U	180 U	190 U	180 U	190 U	180 U	190 U	190 U	200 U	190 U	180 U
Benzyl Alcohol	ug/kg	520 U	560 U	540 U	570 U	550 U	560 U	550 U	580 U	570 U	610 U	560 U	550 U
2,6-Dinitrotoluene	ug/kg	170 U	190 U	180 U	190 U	180 U	190 U	180 U	190 U	190 U	200 U	190 U	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-5B

	Sample Name	SL-161-SA5B-SS-0.0-0.5	SL-161-SA5B-SB-4.0-5.0	SL-162-SA5B-SS-0.0-0.5	SL-162-SA5B-SB-4.0-5.0	SL-163-SA5B-SB-3.5-4.5	SL-164-SA5B-SB-4.0-5.0	SL-165-SA5B-SB-4.0-5.0	SL-166-SA5B-SS-0.0-0.5	SL-168-SA5B-SB-4.0-5.0	SL-169-SA5B-SS-0.0-0.5	SL-172-SA5B-SS-0.0-0.5	SL-172-SA5B-SB-2.0-3.0
	Sample Date	12/17/2010	02/07/2011	12/17/2010	02/07/2011	02/07/2011	02/08/2011	02/04/2011	12/17/2010	02/08/2011	12/16/2010	12/16/2010	02/02/2011
	Lab SDG	DE044	DE077	DE044	DE077	DE077	DE078	DE076	DE044	DE078	DE042	DE042	DE085
	Start Depth	0	4	0	4	3.5	4	4	0	4	0	0	2
	End Depth	0.5	5	0.5	5	4.5	5	5	0.5	5	0.5	0.5	3
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
N-Nitrosodimethylamine (1625C)	ng/kg	--	--	--	--	--	--	--	--	37.2 U	--	--	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	2 U	1.8 U	2 U	1.9 U	1.8 U	1.8 U	1.9 U	1.7 U	1.9 U	1.9 U	1.8 U	1.8 U
2,4-Dinitrotoluene	ug/kg	200 U	180 U	200 U	190 U	180 U	180 U	190 U	170 U	190 U	190 U	180 U	180 U
Nitrobenzene	ug/kg	200 U	180 U	200 U	190 U	180 U	180 U	190 U	170 U	190 U	190 U	180 U	180 U
1,4-Dichlorobenzene	ug/kg	200 U	180 U	200 U	190 U	180 U	180 U	190 U	170 U	190 U	190 U	180 U	180 U
1,2,4-Trichlorobenzene	ug/kg	200 U	180 U	200 U	190 U	180 U	180 U	190 U	170 U	190 U	190 U	180 U	180 U
1,3-Dichlorobenzene	ug/kg	200 U	180 U	200 U	190 U	180 U	180 U	190 U	170 U	190 U	190 U	180 U	180 U
Hexachlorobutadiene	ug/kg	200 U	180 U	200 U	190 U	180 U	180 U	190 U	170 U	190 U	190 U	180 U	180 U
1,2-Dichlorobenzene	ug/kg	200 U	180 U	200 U	190 U	180 U	180 U	190 U	170 U	190 U	190 U	180 U	180 U
4-Nitroaniline	ug/kg	200 U	180 U	200 U	190 U	180 U	180 U	190 U	170 U	190 U	190 U	180 U	180 U
4-Nitrophenol	ug/kg	600 U	550 U	600 U	560 U	540 U	540 U	560 U	520 U	560 U	570 U	530 U	540 U
4-Bromophenyl Phenyl Ether	ug/kg	200 U	180 U	200 U	190 U	180 U	180 U	190 U	170 U	190 U	190 U	180 U	180 U
2,4-Dimethylphenol	ug/kg	200 U	180 U	200 U	190 U	180 U	180 U	190 U	170 U	190 U	190 U	180 U	180 U
4-Methylphenol	ug/kg	200 U	180 U	200 U	190 U	180 U	180 U	190 U	170 U	190 U	190 U	180 U	180 U
4-Chloroaniline	ug/kg	200 U	180 U	200 U	190 U	180 U	180 U	190 U	170 U	190 U	190 U	180 U	180 U
3,5-Dimethylphenol	ug/kg	200 U	180 U	200 U	190 U	180 U	180 U	190 U	170 U	190 U	190 U	180 U	180 U
Phenol	ug/kg	200 U	180 U	200 U	190 U	180 U	180 U	190 U	170 U	190 U	190 U	180 U	180 U
Bis(2-Chloroethyl) ether	ug/kg	200 U	180 U	200 U	190 U	180 U	180 U	190 U	170 U	190 U	190 U	180 U	180 U
Bis(2-Chloroethoxy) methane	ug/kg	200 U	180 U	200 U	190 U	180 U	180 U	190 U	170 U	190 U	190 U	180 U	180 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	29 J	370 U	--	380 U	360 U	25 J	--	--	--	23 J	--	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	--	--	500	--	--	--	9.6 J	8.6 J	20 U	--	14 J	19 U
Di-N-Octyl Phthalate (8270C)	ug/kg	--	180 U	--	190 U	180 U	--	--	--	--	--	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	22 U	--	22 U	--	--	19 U	20 U	19 U	20 U	20 U	19 U	19 U
Hexachlorobenzene	ug/kg	200 U	180 U	200 U	190 U	180 U	180 U	190 U	170 U	190 U	190 U	180 U	180 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	2.1	0.59 J	2.2	1.9 U	1.8 U	0.44 J	1.9 U	1.2 J	1.9 U	2	1.8 U	1.8 U
2,4-Dichlorophenol	ug/kg	200 U	180 U	200 U	190 U	180 U	180 U	190 U	170 U	190 U	190 U	180 U	180 U
1,2-Diphenylhydrazine	ug/kg	200 U	180 U	200 U	190 U	180 U	180 U	190 U	170 U	190 U	190 U	180 U	180 U
Pyrene (8270C)	ug/kg	23 J	--	--	--	--	320	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	--	1.1 J	10	1.9 U	1.8 U	--	1.9 U	9.7	1.9 U	16	4.2	1.8 U
Dimethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Dimethylphthalate (8270C SIM)	ug/kg	22 U	20 U	22 U	20 U	19 U	16 J	20 U	19 U	20 U	20 U	19 U	19 U
Dibenzofuran	ug/kg	200 U	180 U	200 U	190 U	180 U	180 U	190 U	170 U	190 U	190 U	180 U	180 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	280	--	--	--	72 J	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	11	1.4 J	13	1.9 U	1.8 U	--	1.9 U	8.7	1.9 U	--	1.1 J	1.8 U
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	320	--	--	--	82 J	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	7.4	1.1 J	8.5	1.9 U	1.8 U	--	1.9 U	6.2	1.9 U	--	0.82 J	1.8 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	610	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	14	0.94 J	15	1.9 U	1.8 U	--	1.9 U	14	1.9 U	49	3.7	1.8 U
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	190	--	--	--	21 J	--	--
Fluoranthene (8270C SIM)	ug/kg	12	0.86 J	8.4	1.9 U	1.8 U	--	1.9 U	8.6	1.9 U	--	6	1.8 U
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	340	--	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	5.4	1.1 J	4.8	0.81 J	1.8 U	--	1.9 U	6.1	1.7 J	13	1.1 J	1.8 U
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	1.1 J	1.8 U	0.74 J	1.9 U	1.8 U	1.8 U	1.9 U	0.38 J	1.9 U	0.9 J	1.8 U	1.8 U

U – Compound not detected above the reporting limit
J – Result is an estimated value
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Appendix A6
Semivolatile Organics - Validated Data
HSA-5B

	Sample Name	SL-161-SA5B-SS-0.0-0.5	SL-161-SA5B-SB-4.0-5.0	SL-162-SA5B-SS-0.0-0.5	SL-162-SA5B-SB-4.0-5.0	SL-163-SA5B-SB-3.5-4.5	SL-164-SA5B-SB-4.0-5.0	SL-165-SA5B-SB-4.0-5.0	SL-166-SA5B-SS-0.0-0.5	SL-168-SA5B-SB-4.0-5.0	SL-169-SA5B-SS-0.0-0.5	SL-172-SA5B-SS-0.0-0.5	SL-172-SA5B-SB-2.0-3.0
	Sample Date	12/17/2010	02/07/2011	12/17/2010	02/07/2011	02/07/2011	02/08/2011	02/04/2011	12/17/2010	02/08/2011	12/16/2010	12/16/2010	02/02/2011
	Lab SDG	DE044	DE077	DE044	DE077	DE077	DE078	DE076	DE044	DE078	DE042	DE042	DE085
	Start Depth	0	4	0	4	3.5	4	4	0	4	0	0	2
	End Depth	0.5	5	0.5	5	4.5	5	5	0.5	5	0.5	0.5	3
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Chrysene (8270C)	ug/kg	--	--	--	--	--	660	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	10	1 J	8.4	0.61 J	0.41 J	--	1.9 U	11	0.52 J	20	3.2	1.8 U
bis(2-Chloroisopropyl) ether	ug/kg	200 U	180 U	200 U	190 U	180 U	180 U	190 U	170 U	190 U	190 U	180 U	180 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	590	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	5.2	0.76 J	4.9	1.9 U	1.8 U	--	1.9 U	7.3	1.9 U	23	1.5 J	1.8 U
2,4-Dinitrophenol	ug/kg	2400 U	1100 U	2400 U	1100 U	1100 U	1100 U	1100 U	2100 U	1100 U	2300 U	2100 U	1100 U
4,6-Dinitro-2-Methylphenol	ug/kg	600 U	550 U	600 U	560 U	540 U	540 U	560 U	520 U	560 U	570 U	530 U	540 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	90 J	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	1.1 J	1.8 U	1.1 J	1.9 U	1.8 U	--	1.9 U	1.1 J	1.9 U	5	1.8 U	1.8 U
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	360	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	4.7	0.88 J	3.7	1.9 U	1.8 U	--	1.9 U	8.9	1.9 U	10	1.4 J	1.8 U
4-Chloro-3-Methylphenol	ug/kg	200 U	180 U	200 U	190 U	180 U	180 U	190 U	170 U	190 U	190 U	180 U	180 U
N-Nitroso-Di-N-Propylamine	ug/kg	200 U	180 U	200 U	190 U	180 U	180 U	190 U	170 U	190 U	190 U	180 U	180 U
Aniline	ug/kg	600 U	550 U	600 U	560 U	540 U	540 U	560 U	520 U	560 U	570 U	530 U	540 U
Benzoic Acid	ug/kg	600 U	550 U	600 U	560 U	540 U	540 U	560 U	520 U	560 U	570 U	530 U	540 U
Hexachloroethane	ug/kg	200 U	180 U	200 U	190 U	180 U	180 U	190 U	170 U	190 U	190 U	180 U	180 U
4-Chlorophenyl Phenylether	ug/kg	200 U	180 U	200 U	190 U	180 U	180 U	190 U	170 U	190 U	190 U	180 U	180 U
Hexachlorocyclopentadiene	ug/kg	600 U	550 U	600 U	560 U	540 U	540 U	560 U	520 U	560 U	570 U	530 U	540 U
Isophorone	ug/kg	200 U	180 U	200 U	190 U	180 U	180 U	190 U	170 U	190 U	190 U	180 U	180 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	2 U	1.8 U	2 U	1.9 U	1.8 U	1.8 U	1.9 U	1.7 U	1.9 U	1.9 U	1.8 U	1.8 U
Diethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Diethylphthalate (8270C SIM)	ug/kg	22 U	20 U	22 U	20 U	19 U	19 U	20 U	19 U	20 U	20 U	19 U	19 U
Di-n-Butylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	22 U	20 U	22 U	20 U	19 U	9.3 J	20 U	19 U	7 J	20 U	19 U	19 U
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	24 J	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	7.6	0.93 J	5.4	1.9 U	1.8 U	--	1.9 U	2.4	1.9 U	14	3.8	1.8 U
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	14 J	20 U	7.9 J	20 U	19 U	19 U	20 U	19 U	20 U	20 U	19 U	19 U
N-Nitrosodiphenylamine	ug/kg	200 U	180 U	200 U	190 U	180 U	180 U	190 U	170 U	190 U	190 U	180 U	180 U
Fluorene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Fluorene (8270C SIM)	ug/kg	2 U	1.8 U	2 U	1.9 U	1.8 U	1.8 U	1.9 U	1.7 U	1.9 U	1.9 U	1.8 U	1.8 U
Carbazole	ug/kg	200 U	180 U	200 U	190 U	180 U	180 U	190 U	170 U	190 U	190 U	180 U	180 U
Pentachlorophenol	ug/kg	600 U	550 U	600 U	560 U	540 U	540 U	560 U	520 U	560 U	570 U	530 U	540 U
2,4,6-Trichlorophenol	ug/kg	200 U	180 U	200 U	190 U	180 U	180 U	190 U	170 U	190 U	190 U	180 U	180 U
2-Nitroaniline	ug/kg	200 U	180 U	200 U	190 U	180 U	180 U	190 U	170 U	190 U	190 U	180 U	180 U
2-Nitrophenol	ug/kg	200 U	180 U	200 U	190 U	180 U	180 U	190 U	170 U	190 U	190 U	180 U	180 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	1.6 J	1.8 U	0.93 J	1.9 U	1.8 U	1.8 U	1.9 U	1.7 U	1.9 U	5.3	1.8 U	1.8 U
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene (8270C SIM)	ug/kg	3.4	1.1 J	1.7 J	1.4 J	0.83 J	0.86 J	1.9 U	1 J	1.9 U	4.4	0.94 J	1.8 U
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	3	1.8 U	1.8 J	1.9 U	1.8 U	1.8 U	1.9 U	1.7 U	1.9 U	6.2	0.86 J	1.8 U
2-Chloronaphthalene	ug/kg	200 U	180 U	200 U	190 U	180 U	180 U	190 U	170 U	190 U	190 U	180 U	180 U
3,3`-Dichlorobenzidine	ug/kg	400 UJ	370 U	400 UJ	380 U	360 U	360 U	370 U	350 UJ	370 U	380 U	350 U	360 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-5B

	Sample Name	SL-161-SA5B-SS-0.0-0.5	SL-161-SA5B-SB-4.0-5.0	SL-162-SA5B-SS-0.0-0.5	SL-162-SA5B-SB-4.0-5.0	SL-163-SA5B-SB-3.5-4.5	SL-164-SA5B-SB-4.0-5.0	SL-165-SA5B-SB-4.0-5.0	SL-166-SA5B-SS-0.0-0.5	SL-168-SA5B-SB-4.0-5.0	SL-169-SA5B-SS-0.0-0.5	SL-172-SA5B-SS-0.0-0.5	SL-172-SA5B-SB-2.0-3.0
	Sample Date	12/17/2010	02/07/2011	12/17/2010	02/07/2011	02/07/2011	02/08/2011	02/04/2011	12/17/2010	02/08/2011	12/16/2010	12/16/2010	02/02/2011
	Lab SDG	DE044	DE077	DE044	DE077	DE077	DE078	DE076	DE044	DE078	DE042	DE042	DE085
	Start Depth	0	4	0	4	3.5	4	4	0	4	0	0	2
	End Depth	0.5	5	0.5	5	4.5	5	5	0.5	5	0.5	0.5	3
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Benzidine	ug/kg	4000 U	3700 U	4000 U	3800 U	3600 U	3600 U	3700 U	3500 U	3700 R	3800 U	3500 U	3600 U
2-Methylphenol	ug/kg	200 U	180 U	200 U	190 U	180 U	180 U	190 U	170 U	190 U	190 U	180 U	180 U
2-Chlorophenol	ug/kg	200 U	180 U	200 U	190 U	180 U	180 U	190 U	170 U	190 U	190 U	180 U	180 U
2,4,5-Trichlorophenol	ug/kg	200 U	180 U	200 U	190 U	180 U	180 U	190 U	170 U	190 U	190 U	180 U	180 U
3-Nitroaniline	ug/kg	200 U	180 U	200 U	190 U	180 U	180 U	190 U	170 U	190 U	190 U	180 U	180 U
Benzyl Alcohol	ug/kg	600 U	550 U	600 U	560 U	540 U	540 U	560 U	520 U	560 U	570 U	530 U	540 U
2,6-Dinitrotoluene	ug/kg	200 U	180 U	200 U	190 U	180 U	180 U	190 U	170 U	190 U	190 U	180 U	180 U

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

	Sample Name	SL-173-SA5B-SS-0.0-0.5	SL-173-SA5B-SB-2.0-3.0	SL-175-SA5B-SB-4.0-5.0	SL-176-SA5B-SS-0.0-0.5	SL-176-SA5B-SB-4.0-5.0	SL-177-SA5B-SB-4.0-5.0	SL-178-SA5B-SS-0.0-0.5	SL-178-SA5B-SB-4.0-5.0	SL-179-SA5B-SB-4.0-5.0	SL-179-SA5B-SB-7.0-8.0	SL-180-SA5B-SB-4.0-5.0	SL-180-SA5B-SB-9.0-10.0
	Sample Date	12/16/2010	02/02/2011	01/31/2011	12/16/2010	01/31/2011	01/31/2011	12/16/2010	01/28/2011	01/28/2011	01/28/2011	01/26/2011	01/26/2011
	Lab SDG	DE042	DE085	DE074	DE042	DE074	DE074	DE042	DE071	DE071	DE071	DE069	DE069
	Start Depth	0	2	4	0	4	4	0	4	4	7	4	9
	End Depth	0.5	3	5	0.5	5	5	0.5	5	5	8	5	10
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
N-Nitrosodimethylamine (1625C)	ng/kg	--	--	--	--	--	--	--	--	--	--	250	203
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	2.1 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
2,4-Dinitrotoluene	ug/kg	180 U	190 U	190 U	180 U	190 U	190 U	210 U	190 U	190 U	190 U	190 U	190 U
Nitrobenzene	ug/kg	180 U	190 U	190 U	180 U	190 U	190 U	210 U	190 U	190 U	190 U	190 U	190 U
1,4-Dichlorobenzene	ug/kg	180 U	190 U	190 U	180 U	190 U	190 U	210 U	190 U	190 U	190 U	190 U	190 U
1,2,4-Trichlorobenzene	ug/kg	180 U	190 U	190 U	180 U	190 U	190 U	210 U	190 U	190 U	190 U	190 U	190 U
1,3-Dichlorobenzene	ug/kg	180 U	190 U	190 U	180 U	190 U	190 U	210 U	190 U	190 U	190 U	190 U	190 U
Hexachlorobutadiene	ug/kg	180 U	190 U	190 U	180 U	190 U	190 U	210 U	190 U	190 U	190 U	190 U	190 U
1,2-Dichlorobenzene	ug/kg	180 U	190 U	190 U	180 U	190 U	190 U	210 U	190 U	190 U	190 U	190 U	190 U
4-Nitroaniline	ug/kg	180 U	190 U	190 U	180 U	190 U	190 U	210 U	190 U	190 U	190 U	190 U	190 U
4-Nitrophenol	ug/kg	530 U	560 U	570 U	530 U	580 U	580 U	640 U	580 U	580 U	570 U	570 U	570 U
4-Bromophenyl Phenyl Ether	ug/kg	180 U	190 U	190 U	180 U	190 U	190 U	210 U	190 U	190 U	190 U	190 U	190 U
2,4-Dimethylphenol	ug/kg	180 U	190 U	190 U	180 U	190 U	190 U	210 U	190 U	190 U	190 U	190 U	190 U
4-Methylphenol	ug/kg	180 U	190 U	190 U	180 U	190 U	190 U	210 U	190 U	190 U	190 U	190 U	190 U
4-Chloroaniline	ug/kg	180 U	190 U	190 U	180 U	190 U	190 U	210 U	190 U	190 U	190 U	190 U	190 U
3,5-Dimethylphenol	ug/kg	180 U	190 U	190 U	180 U	190 U	190 U	210 U	190 U	190 U	190 U	190 U	190 U
Phenol	ug/kg	180 U	190 U	190 U	180 U	190 U	190 U	210 U	190 U	190 U	190 U	190 U	190 U
Bis(2-Chloroethyl) ether	ug/kg	180 U	190 U	190 U	180 U	190 U	190 U	210 U	190 U	190 U	190 U	190 U	190 U
Bis(2-Chloroethoxy) methane	ug/kg	180 U	190 U	190 U	180 U	190 U	190 U	210 U	190 U	190 U	190 U	190 U	190 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	49 J	--	--	--	--	--	43 J	--	23 J	--	--	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	--	20 U	10 J	19 U	8.1 J	21 U	--	21 U	--	8.2 J	21 U	21 U
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	19 U	20 U	21 U	19 U	21 U	21 U	23	21 U	21 U	21 U	21 U	21 U
Hexachlorobenzene	ug/kg	180 U	190 U	190 U	180 U	190 U	190 U	210 U	190 U	190 U	190 U	190 U	190 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	1.4 J	1.9 U	1.9 U	14	1.9 U	1.9 U	0.87 J	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
2,4-Dichlorophenol	ug/kg	180 U	190 U	190 U	180 U	190 U	190 U	210 U	190 U	190 U	190 U	190 U	190 U
1,2-Diphenylhydrazine	ug/kg	180 U	190 U	190 U	180 U	190 U	190 U	210 U	190 U	190 U	190 U	190 U	190 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	19	1.9 U	1.9 U	130	0.89 J	1.9 U	12	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Dimethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Dimethylphthalate (8270C SIM)	ug/kg	19 U	20 U	21 U	19 U	21 U	21 U	23 U	21 U	21 U	21 U	21 U	21 U
Dibenzofuran	ug/kg	180 U	190 U	190 U	180 U	190 U	190 U	210 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	11	1.9 U	1.9 U	17	1.9 U	1.9 U	3.5	1.9 U	1.9 U	1.9 U	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	11	1.9 U	1.9 U	18	1.9 U	1.9 U	3.2	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	20	1.9 U	1.9 U	87	1.9 U	1.9 U	15	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	31	1.9 U	1.9 U	180	1.9 U	1.9 U	14	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	5.5	1.9 U	1.9 U	35	1.9 U	1.9 U	5.5	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	0.94 J	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	2.1 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U

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R – Result is rejected

Appendix A6
Semivolatile Organics - Validated Data
HSA-5B

	Sample Name	SL-173-SA5B-SS-0.0-0.5	SL-173-SA5B-SB-2.0-3.0	SL-175-SA5B-SB-4.0-5.0	SL-176-SA5B-SS-0.0-0.5	SL-176-SA5B-SB-4.0-5.0	SL-177-SA5B-SB-4.0-5.0	SL-178-SA5B-SS-0.0-0.5	SL-178-SA5B-SB-4.0-5.0	SL-179-SA5B-SB-4.0-5.0	SL-179-SA5B-SB-7.0-8.0	SL-180-SA5B-SB-4.0-5.0	SL-180-SA5B-SB-9.0-10.0
	Sample Date	12/16/2010	02/02/2011	01/31/2011	12/16/2010	01/31/2011	01/31/2011	12/16/2010	01/28/2011	01/28/2011	01/28/2011	01/26/2011	01/26/2011
	Lab SDG	DE042	DE085	DE074	DE042	DE074	DE074	DE042	DE071	DE071	DE071	DE069	DE069
	Start Depth	0	2	4	0	4	4	0	4	4	7	4	9
	End Depth	0.5	3	5	0.5	5	5	0.5	5	5	8	5	10
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Chrysene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	12	1.9 U	1.9 U	73	0.72 J	1.9 U	14	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
bis(2-Chloroisopropyl) ether	ug/kg	180 U	190 U	190 U	180 U	190 U	190 U	210 U	190 U	190 U	190 U	190 U	190 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	7.3	1.9 U	1.9 U	49	1.9 U	1.9 U	7.9	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
2,4-Dinitrophenol	ug/kg	2100 U	1100 U	1100 U	2100 U	1200 U	1200 U	2600 U	1200 U	1200 U	1100 U	1100 U	1100 U
4,6-Dinitro-2-Methylphenol	ug/kg	530 U	560 U	570 U	530 U	580 U	580 U	640 U	580 U	580 U	570 U	570 U	570 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	1.6 J	1.9 U	1.9 U	6	1.9 U	1.9 U	1.2 J	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	4.1	1.9 U	1.9 U	65	1.9 U	1.9 U	6.8	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
4-Chloro-3-Methylphenol	ug/kg	180 U	190 U	190 U	180 U	190 U	190 U	210 U	190 U	190 U	190 U	190 U	190 U
N-Nitroso-Di-N-Propylamine	ug/kg	180 U	190 U	190 U	180 U	190 U	190 U	210 U	190 U	190 U	190 U	190 U	190 U
Aniline	ug/kg	530 U	560 U	570 U	530 U	580 U	580 U	640 U	580 U	580 U	570 U	570 U	570 U
Benzoic Acid	ug/kg	530 U	560 U	570 U	530 U	580 U	580 U	640 U	580 U	580 U	570 U	570 U	570 U
Hexachloroethane	ug/kg	180 U	190 U	190 U	180 U	190 U	190 U	210 U	190 U	190 U	190 U	190 U	190 U
4-Chlorophenyl Phenylether	ug/kg	180 U	190 U	190 U	180 U	190 U	190 U	210 U	190 U	190 U	190 U	190 U	190 U
Hexachlorocyclopentadiene	ug/kg	530 U	560 U	570 U	530 U	580 U	580 U	640 U	580 U	580 U	570 U	570 U	570 U
Isophorone	ug/kg	180 U	190 U	190 U	180 U	190 U	190 U	210 U	190 U	190 U	190 U	190 U	190 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	1.6 J	1.9 U	1.9 U	7.3	1.9 U	1.9 U	2.1 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Diethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Diethylphthalate (8270C SIM)	ug/kg	19 U	20 U	21 U	19 U	21 U	21 U	23 U	21 UJ	21 U	21 U	18 J	21 U
Di-n-Butylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	19 U	20 U	21 U	19 U	21 U	21 U	23 U	21 U	21 U	21 U	21 U	21 U
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	22	1.9 U	1.9 U	100	1.9 U	1.9 U	5.9	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	19 U	20 U	21 U	19 U	21 U	21 U	8.8 J	21 U	21 U	21 U	21 U	21 U
N-Nitrosodiphenylamine	ug/kg	180 U	190 U	190 U	180 U	190 U	190 U	210 U	190 U	190 U	190 U	190 U	190 U
Fluorene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Fluorene (8270C SIM)	ug/kg	1.3 J	1.9 U	1.9 U	5.7	1.9 U	1.9 U	2.1 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Carbazole	ug/kg	180 U	190 U	190 U	180 U	190 U	190 U	210 U	190 U	190 U	190 U	190 U	190 U
Pentachlorophenol	ug/kg	530 U	560 U	570 U	530 U	580 U	580 U	640 U	580 U	580 U	570 U	570 U	570 U
2,4,6-Trichlorophenol	ug/kg	180 U	190 U	190 U	180 U	190 U	190 U	210 U	190 U	190 U	190 U	190 U	190 U
2-Nitroaniline	ug/kg	180 U	190 U	190 U	180 U	190 U	190 U	210 U	190 U	190 U	190 U	190 U	190 U
2-Nitrophenol	ug/kg	180 U	190 U	190 U	180 U	190 U	190 U	210 U	190 U	190 U	190 U	190 U	190 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	2.4	1.9 U	1.9 U	0.95 J	1.9 U	1.9 U	0.86 J	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene (8270C SIM)	ug/kg	2.4	1.9 U	1.9 U	1.4 J	1.9 U	1.9 U	1.2 J	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	3.1	1.9 U	1.9 U	1 J	1.9 U	1.9 U	1.3 J	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
2-Chloronaphthalene	ug/kg	180 U	190 U	190 U	180 U	190 U	190 U	210 U	190 U	190 U	190 U	190 U	190 U
3,3`-Dichlorobenzidine	ug/kg	360 U	370 U	380 U	350 U	390 U	390 U	430 U	390 UJ	390 UJ	380 UJ	380 U	380 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-5B

	Sample Name	SL-173-SA5B-SS-0.0-0.5	SL-173-SA5B-SB-2.0-3.0	SL-175-SA5B-SB-4.0-5.0	SL-176-SA5B-SS-0.0-0.5	SL-176-SA5B-SB-4.0-5.0	SL-177-SA5B-SB-4.0-5.0	SL-178-SA5B-SS-0.0-0.5	SL-178-SA5B-SB-4.0-5.0	SL-179-SA5B-SB-4.0-5.0	SL-179-SA5B-SB-7.0-8.0	SL-180-SA5B-SB-4.0-5.0	SL-180-SA5B-SB-9.0-10.0
	Sample Date	12/16/2010	02/02/2011	01/31/2011	12/16/2010	01/31/2011	01/31/2011	12/16/2010	01/28/2011	01/28/2011	01/28/2011	01/26/2011	01/26/2011
	Lab SDG	DE042	DE085	DE074	DE042	DE074	DE074	DE042	DE071	DE071	DE071	DE069	DE069
	Start Depth	0	2	4	0	4	4	0	4	4	7	4	9
	End Depth	0.5	3	5	0.5	5	5	0.5	5	5	8	5	10
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Benzidine	ug/kg	3600 U	3700 U	3800 U	3500 U	3900 U	3900 U	4300 U	3900 U	3900 U	3800 U	3800 U	3800 U
2-Methylphenol	ug/kg	180 U	190 U	190 U	180 U	190 U	190 U	210 U	190 U	190 U	190 U	190 U	190 U
2-Chlorophenol	ug/kg	180 U	190 U	190 U	180 U	190 U	190 U	210 U	190 U	190 U	190 U	190 U	190 U
2,4,5-Trichlorophenol	ug/kg	180 U	190 U	190 U	180 U	190 U	190 U	210 U	190 U	190 U	190 U	190 U	190 U
3-Nitroaniline	ug/kg	180 U	190 U	190 U	180 U	190 U	190 U	210 U	190 U	190 U	190 U	190 U	190 U
Benzyl Alcohol	ug/kg	530 U	560 U	570 U	530 U	580 U	580 U	640 U	580 U	580 U	570 U	570 U	570 U
2,6-Dinitrotoluene	ug/kg	180 U	190 U	190 U	180 U	190 U	190 U	210 U	190 U	190 U	190 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-5B

	Sample Name	SL-181-SA5B-SS-0.0-0.5	SL-181-SA5B-SB-4.0-5.0	SL-182-SA5B-SB-4.0-5.0	SL-183-SA5B-SS-0.0-0.5	SL-183-SA5B-SB-4.0-5.0	SL-184-SA5B-SB-3.0-4.0	SL-185-SA5B-SB-4.0-5.0	SL-186-SA5B-SS-0.0-0.5	SL-186-SA5B-SB-4.0-5.0	SL-187-SA5B-SS-0.0-0.5	SL-187-SA5B-SB-4.0-5.0	SL-188-SA5B-SB-4.0-5.0
	Sample Date	12/15/2010	01/27/2011	01/31/2011	12/21/2010	01/28/2011	01/28/2011	01/27/2011	12/16/2010	01/27/2011	12/16/2010	02/01/2011	02/01/2011
	Lab SDG	DE040	DE070	DE073	DE049	DE071	DE071	DE070	DE042	DE070	DE042	DE072	DE072
	Start Depth	0	4	4	0	4	3	4	0	4	0	4	4
	End Depth	0.5	5	5	0.5	5	4	5	0.5	5	0.5	5	5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
N-Nitrosodimethylamine (1625C)	ng/kg	--	150	38.1 U	198 U	129 J	83.4	151	--	--	--	--	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.8 U	1.9 U	1.9 U	2 U	1.9 U	1.9 U	1.9 U	1.8 U	1.9 U	1.8 U	1.8 U	1.9 U
2,4-Dinitrotoluene	ug/kg	180 U	190 U	190 U	200 U	190 U	190 U	190 U	180 U	190 U	180 U	180 U	190 U
Nitrobenzene	ug/kg	180 U	190 U	190 U	200 U	190 U	190 U	190 U	180 U	190 U	180 U	180 U	190 U
1,4-Dichlorobenzene	ug/kg	180 U	190 U	190 UJ	200 U	190 U	190 U	190 U	180 U	190 U	180 U	180 U	190 U
1,2,4-Trichlorobenzene	ug/kg	180 U	190 U	190 U	200 U	190 U	190 U	190 U	180 U	190 U	180 U	180 U	190 U
1,3-Dichlorobenzene	ug/kg	180 U	190 U	190 U	200 U	190 U	190 U	190 U	180 U	190 U	180 U	180 U	190 U
Hexachlorobutadiene	ug/kg	180 U	190 U	190 U	200 U	190 U	190 U	190 U	180 U	190 U	180 U	180 U	190 U
1,2-Dichlorobenzene	ug/kg	180 U	190 U	190 U	200 U	190 U	190 U	190 U	180 U	190 U	180 U	180 U	190 U
4-Nitroaniline	ug/kg	180 U	190 U	190 U	200 U	190 U	190 U	190 U	180 U	190 U	180 U	180 U	190 U
4-Nitrophenol	ug/kg	540 U	570 U	570 U	590 U	570 U	580 U	570 U	540 U	560 U	530 U	530 U	560 U
4-Bromophenyl Phenyl Ether	ug/kg	180 U	190 U	190 U	200 U	190 U	190 U	190 U	180 U	190 U	180 U	180 U	190 U
2,4-Dimethylphenol	ug/kg	180 U	190 U	190 U	200 U	190 U	190 U	190 U	180 U	190 U	180 U	180 U	190 U
4-Methylphenol	ug/kg	180 U	190 U	190 U	200 U	190 U	190 U	190 U	180 U	190 U	180 U	180 U	190 U
4-Chloroaniline	ug/kg	180 U	190 U	190 U	200 U	190 U	190 U	190 U	180 U	190 U	180 U	180 U	190 U
3,5-Dimethylphenol	ug/kg	180 U	190 U	190 U	200 U	190 U	190 U	190 U	180 U	190 U	180 U	180 U	190 U
Phenol	ug/kg	180 U	190 U	190 U	200 U	190 U	190 U	190 U	180 U	190 U	180 U	180 U	190 U
Bis(2-Chloroethyl) ether	ug/kg	180 U	190 U	190 U	200 U	190 U	190 U	190 U	180 U	190 U	180 U	180 U	190 U
Bis(2-Chloroethoxy) methane	ug/kg	180 U	190 U	190 U	200 U	190 U	190 U	190 U	180 U	190 U	180 U	180 U	190 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	--	28 J	--	--	--	--	26 J	45 J	25 J	81 J	--	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	20 U	--	7.1 J	8.3 J	21 U	21 U	--	--	--	--	19 U	9.6 J
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	20 U	21 U	21 U	21 U	21 U	21 U	21 U	19 U	20 U	19 U	19 U	20 U
Hexachlorobenzene	ug/kg	180 U	190 U	190 U	200 U	190 U	190 U	190 U	180 U	190 U	180 U	180 U	190 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	1.8 U	1.9 U	1.9 UJ	5.3	1.9 U	1.9 U	1.9 U	2.8	1.9 U	1.8 U	1.8 U	1.9 U
2,4-Dichlorophenol	ug/kg	180 U	190 U	190 U	200 U	190 U	190 U	190 U	180 U	190 U	180 U	180 U	190 U
1,2-Diphenylhydrazine	ug/kg	180 U	190 U	190 U	200 U	190 U	190 U	190 U	180 U	190 U	180 U	180 U	190 U
Pyrene (8270C)	ug/kg	--	--	--	39 J	--	--	84 J	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	0.84 J	1.9 U	1.9 UJ	--	1.9 U	3.1	--	29	1.9 U	1.8 U	1.8 U	1.9 U
Dimethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Dimethylphthalate (8270C SIM)	ug/kg	20 U	21 U	21 U	21 U	21 U	21 U	21 U	19 U	20 U	19 U	19 U	20 U
Dibenzofuran	ug/kg	180 U	190 U	190 U	200 U	190 U	190 U	190 U	180 U	190 U	180 U	180 U	190 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	1.8 U	1.9 U	1.9 UJ	9	1.9 U	1.4 J	1.9 U	5.3	1.9 U	1.8 U	1.8 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	1.9 U	1.9 UJ	7.9	1.9 U	1.2 J	1.9 U	4.4	1.9 U	1.8 U	1.8 U	1.9 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	34 J	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	0.93 J	1.9 U	1.9 UJ	29	1.7 J	3.9	--	29	1.9 U	1.8 U	1.8 U	1.9 U
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	68 J	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	0.94 J	1.9 U	1.9 UJ	45 J	1.9 U	3	--	33	1.9 U	1.8 U	1.8 U	1.9 U
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	19 J	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	1.8 U	1.9 U	1.9 UJ	12	1.9 U	1.9 U	--	8.4	1.9 U	1.8 U	1.8 U	1.9 U
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	1.8 U	1.9 U	1.9 U	2 U	1.9 U	1.9 U	1.9 U	0.94 J	1.9 U	1.8 U	1.8 U	1.9 U

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

Appendix A6
Semivolatile Organics - Validated Data
HSA-5B

	Sample Name	SL-181-SA5B-SS-0.0-0.5	SL-181-SA5B-SB-4.0-5.0	SL-182-SA5B-SB-4.0-5.0	SL-183-SA5B-SS-0.0-0.5	SL-183-SA5B-SB-4.0-5.0	SL-184-SA5B-SB-3.0-4.0	SL-185-SA5B-SB-4.0-5.0	SL-186-SA5B-SS-0.0-0.5	SL-186-SA5B-SB-4.0-5.0	SL-187-SA5B-SS-0.0-0.5	SL-187-SA5B-SB-4.0-5.0	SL-188-SA5B-SB-4.0-5.0
	Sample Date	12/15/2010	01/27/2011	01/31/2011	12/21/2010	01/28/2011	01/28/2011	01/27/2011	12/16/2010	01/27/2011	12/16/2010	02/01/2011	02/01/2011
	Lab SDG	DE040	DE070	DE073	DE049	DE071	DE071	DE070	DE042	DE070	DE042	DE072	DE072
	Start Depth	0	4	4	0	4	3	4	0	4	0	4	4
	End Depth	0.5	5	5	0.5	5	4	5	0.5	5	0.5	5	5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Chrysene (8270C)	ug/kg	--	--	--	--	--	--	43 J	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	0.79 J	1.9 U	1.9 UJ	21	1.3 J	2.2	--	26	1.9 U	1.8 U	1.8 U	1.9 U
bis(2-Chloroisopropyl) ether	ug/kg	180 U	190 U	190 U	200 U	190 U	190 U	190 U	180 U	190 U	180 U	180 U	190 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--	32 J	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	1.8 U	1.9 U	1.9 UJ	21	1.9 U	1.7 J	--	13	1.9 U	1.8 U	1.8 U	1.9 U
2,4-Dinitrophenol	ug/kg	2200 U	1100 U	1100 U	2400 U	1100 U	1200 U	1100 U	2100 U	1100 U	2100 U	1100 U	1100 U
4,6-Dinitro-2-Methylphenol	ug/kg	540 U	570 U	570 U	590 U	570 U	580 U	570 U	540 U	560 U	530 U	530 U	560 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	1.8 U	1.9 U	1.9 UJ	2.3	1.9 U	1.9 U	1.9 U	1.6 J	1.9 U	1.8 U	1.8 U	1.9 U
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	22 J	--	--	38 J	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	1.8 U	1.9 U	1.9 UJ	--	1.9 U	1.7 J	--	17	1.9 U	1.8 U	1.8 U	1.9 U
4-Chloro-3-Methylphenol	ug/kg	180 U	190 U	190 U	200 U	190 U	190 U	190 U	180 U	190 U	180 U	180 U	190 U
N-Nitroso-Di-N-Propylamine	ug/kg	180 U	190 U	190 U	200 U	190 U	190 U	190 U	180 U	190 U	180 U	180 U	190 U
Aniline	ug/kg	540 U	570 U	570 U	590 U	570 U	580 U	570 U	540 U	560 U	530 U	530 U	560 U
Benzoic Acid	ug/kg	540 U	570 U	570 U	590 U	570 U	580 U	570 U	540 U	560 U	530 U	530 U	560 U
Hexachloroethane	ug/kg	180 U	190 U	190 U	200 U	190 U	190 U	190 U	180 U	190 U	180 U	180 U	190 U
4-Chlorophenyl Phenylether	ug/kg	180 U	190 U	190 U	200 U	190 U	190 U	190 U	180 U	190 U	180 U	180 U	190 U
Hexachlorocyclopentadiene	ug/kg	540 U	570 U	570 U	590 U	570 U	580 U	570 U	540 U	560 U	530 U	530 U	560 U
Isophorone	ug/kg	180 U	190 U	190 U	200 U	190 U	190 U	190 U	180 U	190 U	180 U	180 U	190 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	1.8 U	1.9 U	1.9 UJ	2.4	1.9 U	1.9 U	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	21 U	21 U	21 U	21 U	21 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	21 U	21 U	21 U	21 U	6.9 J	19 U	6.9 J	19 U	19 U	20 U
Phenanthrene (8270C)	ug/kg	--	--	--	24 J	--	--	57 J	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	0.78 J	1.9 U	1.9 UJ	--	1.9 U	1.6 J	--	8.1	1.9 U	1.8 U	1.8 U	1.9 U
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	20 U	21 U	21 U	21 U	21 U	21 U	21 U	19 U	20 U	19 U	19 U	20 U
N-Nitrosodiphenylamine	ug/kg	180 U	190 U	190 U	200 U	190 U	190 U	190 U	180 U	190 U	180 U	180 U	190 U
Fluorene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Fluorene (8270C SIM)	ug/kg	1.8 U	1.9 U	1.9 UJ	1.6 J	1.9 U	1.9 U	1.9 U	1.8 U	1.9 U	1.8 U	1.8 U	1.9 U
Carbazole	ug/kg	180 U	190 U	190 U	200 U	190 U	190 U	190 U	180 U	190 U	180 U	180 U	190 U
Pentachlorophenol	ug/kg	540 U	570 U	570 U	590 U	570 U	580 U	570 U	540 U	560 U	530 U	530 U	560 U
2,4,6-Trichlorophenol	ug/kg	180 U	190 U	190 U	200 U	190 U	190 U	190 U	180 U	190 U	180 U	180 U	190 U
2-Nitroaniline	ug/kg	180 U	190 U	190 U	200 U	190 U	190 U	190 U	180 U	190 U	180 U	180 U	190 U
2-Nitrophenol	ug/kg	180 U	190 U	190 U	200 U	190 U	190 U	190 U	180 U	190 U	180 U	180 U	190 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	1.8 U	1.9 U	1.9 U	0.88 J	1.9 U	1.9 U	1.9 U	1.3 J	1.9 U	2.1	1.8 U	1.9 U
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene (8270C SIM)	ug/kg	1.8 U	1.9 U	1.9 U	1.8 J	1.9 U	1.9 U	1.9 U	1.8	1.9 U	1.8 U	1.8 U	0.81 J
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	1.8 U	1.9 U	1.9 U	1.1 J	1.9 U	1.9 U	1.9 U	1.6 J	1.9 U	2.7	1.8 U	1.9 U
2-Chloronaphthalene	ug/kg	180 U	190 U	190 U	200 U	190 U	190 U	190 U	180 U	190 U	180 U	180 U	190 U
3,3`-Dichlorobenzidine	ug/kg	360 U	380 U	380 U	400 U	380 UJ	390 UJ	380 U	360 U	370 U	350 U	360 U	370 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-5B

	Sample Name	SL-181-SA5B-SS-0.0-0.5	SL-181-SA5B-SB-4.0-5.0	SL-182-SA5B-SB-4.0-5.0	SL-183-SA5B-SS-0.0-0.5	SL-183-SA5B-SB-4.0-5.0	SL-184-SA5B-SB-3.0-4.0	SL-185-SA5B-SB-4.0-5.0	SL-186-SA5B-SS-0.0-0.5	SL-186-SA5B-SB-4.0-5.0	SL-187-SA5B-SS-0.0-0.5	SL-187-SA5B-SB-4.0-5.0	SL-188-SA5B-SB-4.0-5.0
	Sample Date	12/15/2010	01/27/2011	01/31/2011	12/21/2010	01/28/2011	01/28/2011	01/27/2011	12/16/2010	01/27/2011	12/16/2010	02/01/2011	02/01/2011
	Lab SDG	DE040	DE070	DE073	DE049	DE071	DE071	DE070	DE042	DE070	DE042	DE072	DE072
	Start Depth	0	4	4	0	4	3	4	0	4	0	4	4
	End Depth	0.5	5	5	0.5	5	4	5	0.5	5	0.5	5	5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Benzidine	ug/kg	3600 U	3800 U	3800 UJ	4000 U	3800 U	3900 U	3800 U	3600 U	3700 U	3500 U	3600 U	3700 U
2-Methylphenol	ug/kg	180 U	190 U	190 U	200 U	190 U	190 U	190 U	180 U	190 U	180 U	180 U	190 U
2-Chlorophenol	ug/kg	180 U	190 U	190 U	200 U	190 U	190 U	190 U	180 U	190 U	180 U	180 U	190 U
2,4,5-Trichlorophenol	ug/kg	180 U	190 U	190 U	200 U	190 U	190 U	190 U	180 U	190 U	180 U	180 U	190 U
3-Nitroaniline	ug/kg	180 U	190 U	190 U	200 U	190 U	190 U	190 U	180 U	190 U	180 U	180 U	190 U
Benzyl Alcohol	ug/kg	540 U	570 U	570 U	590 U	570 U	580 U	570 U	540 U	560 U	530 U	530 U	560 U
2,6-Dinitrotoluene	ug/kg	180 U	190 U	190 U	200 U	190 U	190 U	190 U	180 U	190 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-5B

	Sample Name	SL-189-SA5B-SS-0.0-0.5	SL-189-SA5B-SB-3.0-4.0	SL-190-SA5B-SB-4.0-5.0	SL-191-SA5B-SB-4.0-5.0	SL-192-SA5B-SS-0.0-0.5	SL-192-SA5B-SB-4.0-5.0	SL-193-SA5B-SB-4.0-5.0	SL-194-SA5B-SS-0.0-0.5	SL-194-SA5B-SB-4.0-5.0	SL-195-SA5B-SB-4.0-5.0	SL-196-SA5B-SS-0.0-0.5	SL-196-SA5B-SB-4.0-5.0
	Sample Date	12/16/2010	02/01/2011	02/01/2011	02/01/2011	12/16/2010	01/27/2011	01/28/2011	12/16/2010	01/28/2011	01/31/2011	12/16/2010	01/28/2011
	Lab SDG	DE042	DE072	DE072	DE072	DE042	DE070	DE071	DE042	DE071	DE074	DE042	DE071
	Start Depth	0	3	4	4	0	4	4	0	4	4	0	4
	End Depth	0.5	4	5	5	0.5	5	5	0.5	5	5	0.5	5
Chemical Name	Unit	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	1.8 U	1.9 U	1.8 U	1.8 U	1.9 U	2 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U
2,4-Dinitrotoluene	ug/kg	180 U	180 U	190 U	180 U	180 U	190 U	200 U	180 U	190 U	190 U	180 U	190 U
Nitrobenzene	ug/kg	180 U	180 U	190 U	180 U	180 U	190 U	200 U	180 U	190 U	190 U	180 U	190 U
1,4-Dichlorobenzene	ug/kg	180 U	180 U	190 U	180 U	180 U	190 U	200 U	180 U	190 U	190 U	180 U	190 U
1,2,4-Trichlorobenzene	ug/kg	180 U	180 U	190 U	180 U	180 U	190 U	200 U	180 U	190 U	190 U	180 U	190 U
1,3-Dichlorobenzene	ug/kg	180 U	180 U	190 U	180 U	180 U	190 U	200 U	180 U	190 U	190 U	180 U	190 U
Hexachlorobutadiene	ug/kg	180 U	180 U	190 U	180 U	180 U	190 U	200 U	180 U	190 U	190 U	180 U	190 U
1,2-Dichlorobenzene	ug/kg	180 U	180 U	190 U	180 U	180 U	190 U	200 U	180 U	190 U	190 U	180 U	190 U
4-Nitroaniline	ug/kg	180 U	180 U	190 U	180 U	180 U	190 U	200 U	180 U	190 U	190 U	180 U	190 U
4-Nitrophenol	ug/kg	540 U	550 U	560 U	540 U	540 U	560 U	590 U	550 U	570 U	580 U	530 U	570 U
4-Bromophenyl Phenyl Ether	ug/kg	180 U	180 U	190 U	180 U	180 U	190 U	200 U	180 U	190 U	190 U	180 U	190 U
2,4-Dimethylphenol	ug/kg	180 UJ	180 U	190 U	180 U	180 U	190 U	200 U	180 U	190 U	190 U	180 U	190 U
4-Methylphenol	ug/kg	180 U	180 U	190 U	180 U	180 U	190 U	200 U	180 U	190 U	190 U	180 U	190 U
4-Chloroaniline	ug/kg	180 U	180 U	190 U	180 U	180 U	190 U	200 U	180 U	190 U	190 U	180 U	190 U
3,5-Dimethylphenol	ug/kg	180 U	180 U	190 U	180 U	180 U	190 U	200 U	180 U	190 U	190 U	180 U	190 U
Phenol	ug/kg	180 U	180 U	190 U	180 U	180 U	190 U	200 U	180 U	190 U	190 U	180 U	190 U
Bis(2-Chloroethyl) ether	ug/kg	180 U	180 U	190 U	180 U	180 U	190 U	200 U	180 U	190 U	190 U	180 U	190 U
Bis(2-Chloroethoxy) methane	ug/kg	180 U	180 U	190 U	180 U	180 U	190 U	200 U	180 U	190 U	190 U	180 U	190 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	--	--	21 J	--	47 J	26 J	--	20 J	--	--	--	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	19 U	7.7 J	--	9.4 J	--	--	21 U	--	21 U	7.7 J	8.3 J	21 U
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	19 U	20 U	20 U	20 U	19 U	20 U	21 U	20 U	21 U	21 U	19 U	21 U
Hexachlorobenzene	ug/kg	180 U	180 U	190 U	180 U	180 U	190 U	200 U	180 U	190 U	190 U	180 U	190 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	1.8 U	1.8 U	1.9 U	0.42 J	1.1 J	1.9 U	2 U	1.2 J	1.9 U	1.9 U	0.41 J	1.9 U
2,4-Dichlorophenol	ug/kg	180 U	180 U	190 U	180 U	180 U	190 U	200 U	180 U	190 U	190 U	180 U	190 U
1,2-Diphenylhydrazine	ug/kg	180 U	180 U	190 U	180 U	180 U	190 U	200 U	180 U	190 U	190 U	180 U	190 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	1.8 U	1.8 U	1.9 U	1.8 U	9.3	1.9 U	2 U	7.3	1.9 U	1.9 U	4.6	1.9 U
Dimethylphthalate (8270C)	ug/kg	--	35 J	--	--	--	--	--	--	--	--	--	--
Dimethylphthalate (8270C SIM)	ug/kg	19 U	--	20 U	20 U	19 U	20 U	21 U	20 U	21 U	21 U	19 U	21 U
Dibenzofuran	ug/kg	180 U	180 U	190 U	180 U	180 U	190 U	200 U	180 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	1.8 U	1.8 U	1.9 U	1.8 U	2.6	1.9 U	2 U	11	1.9 U	1.9 U	1.4 J	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	1.9 U	1.8 U	1.7 J	1.9 U	2 U	12	1.9 U	1.9 U	0.93 J	1.9 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	0.85 J	1.8 U	1.9 U	1.8 U	8.3	1.9 U	2 U	18	1.9 U	1.9 U	4.5	1.9 U
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	1.8 U	1.8 U	1.9 U	0.76 J	13	1.9 U	2 U	8.9	1.9 U	1.9 U	5	1.9 U
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	1.8 U	1.8 U	1.9 U	1.8 U	2.8	1.9 U	2 U	4.3	1.9 U	1.9 U	1.8	1.9 U
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	1.8 U	1.8 U	1.9 U	1.8 U	0.44 J	1.9 U	2 U	0.45 J	1.9 U	1.9 U	1.8 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-5B

	Sample Name	SL-189-SA5B-SS-0.0-0.5	SL-189-SA5B-SB-3.0-4.0	SL-190-SA5B-SB-4.0-5.0	SL-191-SA5B-SB-4.0-5.0	SL-192-SA5B-SS-0.0-0.5	SL-192-SA5B-SB-4.0-5.0	SL-193-SA5B-SB-4.0-5.0	SL-194-SA5B-SS-0.0-0.5	SL-194-SA5B-SB-4.0-5.0	SL-195-SA5B-SB-4.0-5.0	SL-196-SA5B-SS-0.0-0.5	SL-196-SA5B-SB-4.0-5.0
	Sample Date	12/16/2010	02/01/2011	02/01/2011	02/01/2011	12/16/2010	01/27/2011	01/28/2011	12/16/2010	01/28/2011	01/31/2011	12/16/2010	01/28/2011
	Lab SDG	DE042	DE072	DE072	DE072	DE042	DE070	DE071	DE042	DE071	DE074	DE042	DE071
	Start Depth	0	3	4	4	0	4	4	0	4	4	0	4
	End Depth	0.5	4	5	5	0.5	5	5	0.5	5	5	0.5	5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Chrysene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	0.96 J	0.47 J	0.65 J	0.91 J	8	1.9 U	2 U	8.1	1.9 U	1.9 U	4.2	1.9 U
bis(2-Chloroisopropyl) ether	ug/kg	180 U	180 U	190 U	180 U	180 U	190 U	200 U	180 U	190 U	190 U	180 U	190 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	1.8 U	1.8 U	1.9 U	1.8 U	4.8	1.9 U	2 U	7.3	1.9 U	1.9 U	3	1.9 U
2,4-Dinitrophenol	ug/kg	2100 U	1100 U	1100 U	1100 U	2200 U	1100 U	1200 U	2200 U	1100 U	1200 U	2100 U	1100 U
4,6-Dinitro-2-Methylphenol	ug/kg	540 U	550 U	560 U	540 U	540 U	560 U	590 U	550 U	570 U	580 U	530 U	570 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	1.8 U	1.8 U	1.9 U	1.8 U	0.8 J	1.9 U	2 U	1.5 J	1.9 U	1.9 U	1.8 U	1.9 U
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	1.8 U	1.8 U	1.9 U	0.74 J	4.9	1.9 U	2 U	3.6	1.9 U	1.9 U	2.4	1.9 U
4-Chloro-3-Methylphenol	ug/kg	180 U	180 U	190 U	180 U	180 U	190 U	200 U	180 U	190 U	190 U	180 U	190 U
N-Nitroso-Di-N-Propylamine	ug/kg	180 U	180 U	190 U	180 U	180 U	190 U	200 U	180 U	190 U	190 U	180 U	190 U
Aniline	ug/kg	540 UJ	550 U	560 U	540 U	540 U	560 U	590 U	550 U	570 U	580 U	530 U	570 U
Benzoic Acid	ug/kg	540 U	550 U	560 U	540 U	540 U	560 U	590 U	550 U	570 U	580 U	530 U	570 U
Hexachloroethane	ug/kg	180 U	180 U	190 U	180 U	180 U	190 U	200 U	180 U	190 U	190 U	180 U	190 U
4-Chlorophenyl Phenylether	ug/kg	180 U	180 U	190 U	180 U	180 U	190 U	200 U	180 U	190 U	190 U	180 U	190 U
Hexachlorocyclopentadiene	ug/kg	540 U	550 U	560 U	540 U	540 U	560 U	590 U	550 U	570 U	580 U	530 U	570 U
Isophorone	ug/kg	180 U	180 U	190 U	180 U	180 U	190 U	200 U	180 U	190 U	190 U	180 U	190 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	1.9 U	2 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U
Diethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Diethylphthalate (8270C SIM)	ug/kg	19 UJ	20 U	20 U	20 U	19 U	20 U	21 U	20 U	21 U	21 U	19 U	21 U
Di-n-Butylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	19 U	20 U	20 U	20 U	19 U	6.9 J	21 U	20 U	21 U	21 U	19 U	21 U
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	1.8 U	1.8 U	1.9 U	0.87 J	8.2	1.9 U	2 U	6.4	1.9 U	1.9 U	4.5	1.9 U
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	19 U	20 U	20 U	20 U	19 U	20 U	21 U	20 U	21 U	21 U	19 U	21 U
N-Nitrosodiphenylamine	ug/kg	180 U	180 U	190 U	180 U	180 U	190 U	200 U	180 U	190 U	190 U	180 U	190 U
Fluorene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Fluorene (8270C SIM)	ug/kg	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	1.9 U	2 U	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U
Carbazole	ug/kg	180 U	180 U	190 U	180 U	180 U	190 U	200 U	180 U	190 U	190 U	180 U	190 U
Pentachlorophenol	ug/kg	540 U	550 U	560 U	540 U	540 U	560 U	590 U	550 U	570 U	580 U	530 U	570 U
2,4,6-Trichlorophenol	ug/kg	180 U	180 U	190 U	180 U	180 U	190 U	200 U	180 U	190 U	190 U	180 U	190 U
2-Nitroaniline	ug/kg	180 U	180 U	190 U	180 U	180 U	190 U	200 U	180 U	190 U	190 U	180 U	190 U
2-Nitrophenol	ug/kg	180 U	180 U	190 U	180 U	180 U	190 U	200 U	180 U	190 U	190 U	180 U	190 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	1.8 U	1.8 U	1.9 U	1.8 U	1.9	1.9 U	2 U	2.3	1.9 U	1.9 U	0.96 J	1.9 U
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene (8270C SIM)	ug/kg	1.8 U	0.74 J	1.9 U	0.79 J	1.8	1.9 U	2 U	2.3	1.9 U	1.9 U	0.96 J	1.9 U
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	1.8 U	1.8 U	1.9 U	1.8 U	2.1	1.9 U	2 U	2.5	1.9 U	1.9 U	1.1 J	1.9 U
2-Chloronaphthalene	ug/kg	180 U	180 U	190 U	180 U	180 U	190 U	200 U	180 U	190 U	190 U	180 U	190 U
3,3`-Dichlorobenzidine	ug/kg	360 U	360 U	380 U	360 U	360 U	370 U	390 UJ	370 U	380 UJ	380 U	350 U	380 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-5B

	Sample Name	SL-189-SA5B-SS-0.0-0.5	SL-189-SA5B-SB-3.0-4.0	SL-190-SA5B-SB-4.0-5.0	SL-191-SA5B-SB-4.0-5.0	SL-192-SA5B-SS-0.0-0.5	SL-192-SA5B-SB-4.0-5.0	SL-193-SA5B-SB-4.0-5.0	SL-194-SA5B-SS-0.0-0.5	SL-194-SA5B-SB-4.0-5.0	SL-195-SA5B-SB-4.0-5.0	SL-196-SA5B-SS-0.0-0.5	SL-196-SA5B-SB-4.0-5.0
	Sample Date	12/16/2010	02/01/2011	02/01/2011	02/01/2011	12/16/2010	01/27/2011	01/28/2011	12/16/2010	01/28/2011	01/31/2011	12/16/2010	01/28/2011
	Lab SDG	DE042	DE072	DE072	DE072	DE042	DE070	DE071	DE042	DE071	DE074	DE042	DE071
	Start Depth	0	3	4	4	0	4	4	0	4	4	0	4
	End Depth	0.5	4	5	5	0.5	5	5	0.5	5	5	0.5	5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Benzidine	ug/kg	3600 R	3600 U	3800 U	3600 U	3600 U	3700 U	3900 U	3700 U	3800 U	3800 R	3500 U	3800 U
2-Methylphenol	ug/kg	180 U	180 U	190 U	180 U	180 U	190 U	200 U	180 U	190 U	190 U	180 U	190 U
2-Chlorophenol	ug/kg	180 U	180 U	190 U	180 U	180 U	190 U	200 U	180 U	190 U	190 U	180 U	190 U
2,4,5-Trichlorophenol	ug/kg	180 U	180 U	190 U	180 U	180 U	190 U	200 U	180 U	190 U	190 U	180 U	190 U
3-Nitroaniline	ug/kg	180 U	180 U	190 U	180 U	180 U	190 U	200 U	180 U	190 U	190 U	180 U	190 U
Benzyl Alcohol	ug/kg	540 U	550 U	560 U	540 U	540 U	560 U	590 U	550 U	570 U	580 U	530 U	570 U
2,6-Dinitrotoluene	ug/kg	180 U	180 U	190 U	180 U	180 U	190 U	200 U	180 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-5B

	Sample Name	SL-197-SA5B-SB-4.0-5.0	SL-198-SA5B-SS-0.0-0.5	SL-198-SA5B-SB-4.0-5.0	SL-199-SA5B-SS-0.0-0.5	SL-199-SA5B-SB-4.0-5.0	SL-200-SA5B-SB-4.0-5.0	SL-201-SA5B-SB-4.0-5.0	SL-201-SA5B-SB-9.0-10.0	SL-202-SA5B-SS-0.0-0.5	SL-202-SA5B-SB-4.0-5.0	SL-202-SA5B-SB-7.0-8.0	SL-203-SA5B-SS-0.0-0.5
	Sample Date	01/31/2011	12/16/2010	01/31/2011	12/16/2010	01/31/2011	01/31/2011	01/28/2011	01/28/2011	12/16/2010	01/28/2011	01/28/2011	12/15/2010
	Lab SDG	DE074	DE042	DE074	DE042	DE074	DE074	DE071	DE071	DE042	DE071	DE071	DE040
	Start Depth	4	0	4	0	4	4	4	9	0	4	7	0
	End Depth	5	0.5	5	0.5	5	5	5	10	0.5	5	8	0.5
Chemical Name	Unit	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	8.9 U	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U	8.9 U	1.9 U	1.8 U	1.8 U
2,4-Dinitrotoluene	ug/kg	190 U	180 U	190 U	180 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U	180 U
Nitrobenzene	ug/kg	190 U	180 U	190 U	180 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U	180 U
1,4-Dichlorobenzene	ug/kg	190 U	180 U	190 U	180 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U	180 U
1,2,4-Trichlorobenzene	ug/kg	190 U	180 U	190 U	180 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U	180 U
1,3-Dichlorobenzene	ug/kg	190 U	180 U	190 U	180 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U	180 U
Hexachlorobutadiene	ug/kg	190 U	180 U	190 U	180 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U	180 U
1,2-Dichlorobenzene	ug/kg	190 U	180 U	190 U	180 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U	180 U
4-Nitroaniline	ug/kg	190 U	180 U	190 U	180 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U	180 U
4-Nitrophenol	ug/kg	560 U	530 U	560 U	530 U	580 U	580 U	580 U	560 U	540 U	570 U	540 U	540 U
4-Bromophenyl Phenyl Ether	ug/kg	190 U	180 U	190 U	180 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U	180 U
2,4-Dimethylphenol	ug/kg	190 U	180 U	190 U	180 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U	180 U
4-Methylphenol	ug/kg	190 U	180 U	190 U	180 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U	180 U
4-Chloroaniline	ug/kg	190 U	180 U	190 U	180 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U	180 U
3,5-Dimethylphenol	ug/kg	190 U	180 U	190 U	180 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U	180 U
Phenol	ug/kg	190 U	180 U	190 U	180 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U	180 U
Bis(2-Chloroethyl) ether	ug/kg	190 U	180 U	190 U	180 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U	180 U
Bis(2-Chloroethoxy) methane	ug/kg	190 U	180 U	190 U	180 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U	180 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	--	360 U	--	--	--	--	--	--	360 U	--	--	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	20 U	--	7.5 J	8.5 J	21 U	21 U	21 U	20 U	--	21 U	20 U	14 J
Di-N-Octyl Phthalate (8270C)	ug/kg	--	180 U	--	--	--	--	--	--	180 U	--	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	20 U	--	20 U	19 U	21 U	21 U	21 U	20 U	--	21 U	20 U	20 U
Hexachlorobenzene	ug/kg	190 U	180 U	190 U	180 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U	180 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	1.9 U	8.9 U	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U	8.9 U	1.9 U	1.8 U	320
2,4-Dichlorophenol	ug/kg	190 U	180 U	190 U	180 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U	180 U
1,2-Diphenylhydrazine	ug/kg	190 U	180 U	190 U	180 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U	180 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	57 J	--	--	--
Pyrene (8270C SIM)	ug/kg	1.9 U	4.4 J	1.9 U	1.7 J	1.9 U	1.9 U	1.9 U	1.9 U	--	1.9 U	1.8 U	1000
Dimethylphthalate (8270C)	ug/kg	--	180 U	--	--	--	--	--	--	180 U	--	--	--
Dimethylphthalate (8270C SIM)	ug/kg	20 U	--	20 U	19 U	21 U	21 U	21 U	20 U	--	21 U	20 U	20 U
Dibenzofuran	ug/kg	190 U	180 U	190 U	180 U	190 U	190 U	190 U	190 U	180 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	15	1.9 U	1.4 J	1.9 U	1.9 U	1.9 U	1.9 U	4.4 J	1.9 U	1.8 U	200
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	1.9 U	9.6	1.9 U	0.94 J	1.9 U	1.9 U	1.9 U	1.9 U	8.9 U	1.9 U	1.8 U	200
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	1.9 U	24	1.9 U	3.2	1.9 U	1.9 U	1.9 U	1.9 U	10	1.9 U	1.8 U	460
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	59 J	--	--	--
Fluoranthene (8270C SIM)	ug/kg	1.9 U	4.5 J	1.9 U	1.8	1.9 U	1.9 U	1.9 U	1.9 U	--	1.9 U	1.8 U	1100
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	1.9 U	8.9 U	1.9 U	1 J	1.9 U	1.9 U	1.9 U	1.9 U	8.9 U	1.9 U	1.8 U	220
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	1.9 U	8.9 U	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U	8.9 U	1.9 U	1.8 U	2.3

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-5B

	Sample Name	SL-197-SA5B-SB-4.0-5.0	SL-198-SA5B-SS-0.0-0.5	SL-198-SA5B-SB-4.0-5.0	SL-199-SA5B-SS-0.0-0.5	SL-199-SA5B-SB-4.0-5.0	SL-200-SA5B-SB-4.0-5.0	SL-201-SA5B-SB-4.0-5.0	SL-201-SA5B-SB-9.0-10.0	SL-202-SA5B-SS-0.0-0.5	SL-202-SA5B-SB-4.0-5.0	SL-202-SA5B-SB-7.0-8.0	SL-203-SA5B-SS-0.0-0.5
	Sample Date	01/31/2011	12/16/2010	01/31/2011	12/16/2010	01/31/2011	01/31/2011	01/28/2011	01/28/2011	12/16/2010	01/28/2011	01/28/2011	12/15/2010
	Lab SDG	DE074	DE042	DE074	DE042	DE074	DE074	DE071	DE071	DE042	DE071	DE071	DE040
	Start Depth	4	0	4	0	4	4	4	9	0	4	7	0
	End Depth	5	0.5	5	0.5	5	5	5	10	0.5	5	8	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Chrysene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	1.9 U	14	1.9 U	2.6	1.9 U	1.9 U	1.9 U	1.9 U	8.6 J	1.9 U	1.8 U	430
bis(2-Chloroisopropyl) ether	ug/kg	190 U	180 U	190 U	180 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U	180 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	1.9 U	8.6 J	1.9 U	2	1.9 U	1.9 U	1.9 U	1.9 U	6 J	1.9 U	1.8 U	360
2,4-Dinitrophenol	ug/kg	1100 U	2100 U	1100 U	2100 U	1200 U	1200 U	1200 U	1100 U	2100 U	1100 U	1100 U	2200 U
4,6-Dinitro-2-Methylphenol	ug/kg	560 U	530 U	560 U	530 U	580 U	580 U	580 U	560 U	540 U	570 U	540 U	540 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	1.9 U	7.6 J	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U	8.9 U	1.9 U	1.8 U	62
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	1.9 U	3.9 J	1.9 U	1.3 J	1.9 U	1.9 U	1.9 U	1.9 U	6.4 J	1.9 U	1.8 U	410
4-Chloro-3-Methylphenol	ug/kg	190 U	180 U	190 U	180 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U	180 U
N-Nitroso-Di-N-Propylamine	ug/kg	190 U	180 U	190 U	180 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U	180 U
Aniline	ug/kg	560 U	530 U	560 U	530 U	580 U	580 U	580 U	560 U	540 U	570 U	540 U	540 U
Benzoic Acid	ug/kg	560 U	530 U	560 U	530 U	580 U	580 U	580 U	560 U	540 U	570 U	540 U	540 U
Hexachloroethane	ug/kg	190 U	180 U	190 U	180 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U	180 U
4-Chlorophenyl Phenylether	ug/kg	190 U	180 U	190 U	180 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U	180 U
Hexachlorocyclopentadiene	ug/kg	560 U	530 U	560 U	530 U	580 U	580 U	580 U	560 U	540 U	570 U	540 U	540 U
Isophorone	ug/kg	190 U	180 U	190 U	180 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U	180 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	1.9 U	8.9 U	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U	8.9 U	1.9 U	1.8 U	260
Diethylphthalate (8270C)	ug/kg	--	180 U	--	--	--	--	--	--	180 U	--	--	--
Diethylphthalate (8270C SIM)	ug/kg	20 U	--	20 U	19 U	21 U	21 U	21 U	20 U	--	21 U	20 U	20 U
Di-n-Butylphthalate (8270C)	ug/kg	--	180 U	--	--	--	--	--	--	180 U	--	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	20 U	--	20 U	19 U	21 U	21 U	21 U	20 U	--	21 U	20 U	20 U
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	1.9 U	4.7 J	1.9 U	1.2 J	1.9 U	1.9 U	1.9 U	1.9 U	4.8 J	1.9 U	1.8 U	1100
Butylbenzylphthalate (8270C)	ug/kg	--	180 U	--	--	--	--	--	--	180 U	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	20 U	--	20 U	19 U	21 U	21 U	21 U	20 U	--	21 U	20 U	20 U
N-Nitrosodiphenylamine	ug/kg	190 U	180 U	190 U	180 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U	180 U
Fluorene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Fluorene (8270C SIM)	ug/kg	1.9 U	8.9 U	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U	8.9 U	1.9 U	1.8 U	190
Carbazole	ug/kg	190 U	180 U	190 U	180 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U	25 J
Pentachlorophenol	ug/kg	560 U	530 U	560 U	530 U	580 U	580 U	580 U	560 U	540 U	570 U	540 U	540 U
2,4,6-Trichlorophenol	ug/kg	190 U	180 U	190 U	180 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U	180 U
2-Nitroaniline	ug/kg	190 U	180 U	190 U	180 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U	180 U
2-Nitrophenol	ug/kg	190 U	180 U	190 U	180 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U	180 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	1.9 U	8.9 U	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U	8.9 U	1.9 U	1.8 U	38
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene (8270C SIM)	ug/kg	1.9 U	8.9 U	1.9 U	0.77 J	1.9 U	1.9 U	1.9 U	1.9 U	8.9 U	1.9 U	1.8 U	50
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	1.9 U	8.9 U	1.9 U	1.8 U	1.9 U	1.9 U	1.9 U	1.9 U	8.9 U	1.9 U	1.8 U	48
2-Chloronaphthalene	ug/kg	190 U	180 U	190 U	180 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U	180 U
3,3`-Dichlorobenzidine	ug/kg	370 U	360 U	380 U	350 U	380 U	380 U	380 UJ	370 UJ	360 U	380 UJ	360 UJ	360 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-5B

	Sample Name	SL-197-SA5B-SB-4.0-5.0	SL-198-SA5B-SS-0.0-0.5	SL-198-SA5B-SB-4.0-5.0	SL-199-SA5B-SS-0.0-0.5	SL-199-SA5B-SB-4.0-5.0	SL-200-SA5B-SB-4.0-5.0	SL-201-SA5B-SB-4.0-5.0	SL-201-SA5B-SB-9.0-10.0	SL-202-SA5B-SS-0.0-0.5	SL-202-SA5B-SB-4.0-5.0	SL-202-SA5B-SB-7.0-8.0	SL-203-SA5B-SS-0.0-0.5
	Sample Date	01/31/2011	12/16/2010	01/31/2011	12/16/2010	01/31/2011	01/31/2011	01/28/2011	01/28/2011	12/16/2010	01/28/2011	01/28/2011	12/15/2010
	Lab SDG	DE074	DE042	DE074	DE042	DE074	DE074	DE071	DE071	DE042	DE071	DE071	DE040
	Start Depth	4	0	4	0	4	4	4	9	0	4	7	0
	End Depth	5	0.5	5	0.5	5	5	5	10	0.5	5	8	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Benzidine	ug/kg	3700 U	3600 U	3800 U	3500 U	3800 U	3800 U	3800 U	3700 U	3600 U	3800 U	3600 U	3600 U
2-Methylphenol	ug/kg	190 U	180 U	190 U	180 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U	180 U
2-Chlorophenol	ug/kg	190 U	180 U	190 U	180 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U	180 U
2,4,5-Trichlorophenol	ug/kg	190 U	180 U	190 U	180 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U	180 U
3-Nitroaniline	ug/kg	190 U	180 U	190 U	180 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U	180 U
Benzyl Alcohol	ug/kg	560 U	530 U	560 U	530 U	580 U	580 U	580 U	560 U	540 U	570 U	540 U	540 U
2,6-Dinitrotoluene	ug/kg	190 U	180 U	190 U	180 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U	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-5B

	Sample Name	SL-203-SA5B-SB-4.0-5.0	SL-203-SA5B-SB-7.5-8.5	SL-204-SA5B-SS-0.0-0.5	SL-204-SA5B-SB-4.0-5.0	SL-205-SA5B-SS-0.0-0.5	SL-205-SA5B-SB-2.5-3.5	SL-206-SA5B-SS-0.0-0.5	SL-207-SA5B-SS-0.0-0.5	SL-207-SA5B-SB-2.5-3.5	SL-208-SA5B-SS-0.0-0.5	SL-209-SA5B-SS-0.0-0.5	SL-209-SA5B-SB-4.0-5.0
	Sample Date	01/27/2011	01/27/2011	12/15/2010	01/31/2011	12/16/2010	02/03/2011	12/17/2010	12/17/2010	02/03/2011	12/17/2010	12/17/2010	02/02/2011
	Lab SDG	DE070	DE070	DE040	DE073	DE043	DE075	DE044	DE044	DE075	DE044	DE044	DE085
	Start Depth	4	7.5	0	4	0	2.5	0	0	2.5	0	0	4
	End Depth	5	8.5	0.5	5	0.5	3.5	0.5	0.5	3.5	0.5	0.5	5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
N-Nitrosodimethylamine (1625C)	ng/kg	103	177	--	38.4 U	--	--	--	--	--	--	--	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.9 U	1.9 U	8.9 U	1.9 U	1.8 U	1.9 U	1.7 U	1.8 U	1.9 U	1.7 U	1.8 U	1.9 U
2,4-Dinitrotoluene	ug/kg	190 U	190 U	180 U	190 U	180 U	190 U	170 U	180 U	190 U	170 U	180 U	190 U
Nitrobenzene	ug/kg	190 U	190 U	180 U	190 U	180 U	190 U	170 U	180 U	190 U	170 U	180 U	190 U
1,4-Dichlorobenzene	ug/kg	190 U	190 U	180 U	190 U	180 U	190 U	170 U	180 U	190 U	170 U	180 U	190 U
1,2,4-Trichlorobenzene	ug/kg	190 U	190 U	180 U	190 U	180 U	190 U	170 U	180 U	190 U	170 U	180 U	190 U
1,3-Dichlorobenzene	ug/kg	190 U	190 U	180 U	190 U	180 U	190 U	170 U	180 U	190 U	170 U	180 U	190 U
Hexachlorobutadiene	ug/kg	190 U	190 U	180 U	190 U	180 U	190 U	170 U	180 U	190 U	170 U	180 U	190 U
1,2-Dichlorobenzene	ug/kg	190 U	190 U	180 U	190 U	180 U	190 U	170 U	180 U	190 U	170 U	180 U	190 U
4-Nitroaniline	ug/kg	190 U	190 U	180 U	190 U	180 U	190 U	170 U	180 U	190 U	170 U	180 U	190 U
4-Nitrophenol	ug/kg	580 U	570 U	540 U	580 U	530 U	570 U	520 U	530 U	570 U	520 U	530 U	570 U
4-Bromophenyl Phenyl Ether	ug/kg	190 U	190 U	180 U	190 U	180 U	190 U	170 U	180 U	190 U	170 U	180 U	190 U
2,4-Dimethylphenol	ug/kg	190 U	190 U	180 U	190 U	180 U	190 U	170 U	180 U	190 U	170 U	180 U	190 U
4-Methylphenol	ug/kg	190 U	190 U	180 U	190 U	180 U	190 U	170 U	180 U	190 U	170 U	180 U	190 U
4-Chloroaniline	ug/kg	190 U	190 U	180 U	190 U	180 U	190 U	170 U	180 U	190 U	170 U	180 U	190 U
3,5-Dimethylphenol	ug/kg	190 U	190 U	180 U	190 U	180 U	190 U	170 U	180 U	190 U	170 U	180 U	190 U
Phenol	ug/kg	190 U	190 U	180 U	190 U	180 U	190 U	170 U	180 U	190 U	170 U	180 U	190 U
Bis(2-Chloroethyl) ether	ug/kg	190 U	190 U	180 U	190 U	180 U	190 U	170 U	180 U	190 U	170 U	180 U	190 U
Bis(2-Chloroethoxy) methane	ug/kg	190 U	190 U	180 U	190 U	180 U	190 U	170 U	180 U	190 U	170 U	180 U	190 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	29 J	--	--	--	--	--	--	37 J	--	--	--	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	--	20 U	6000	21 U	10 J	20 U	6.8 J	--	21 U	16 J	11 J	21 U
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	180 U	--	--	--	--	--	--	--	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	21 U	20 U	--	21 U	9 J	20 U	13 J	19 U	21 U	13 J	19 U	21 U
Hexachlorobenzene	ug/kg	190 U	190 U	180 U	190 U	180 U	190 U	170 U	180 U	190 U	170 U	180 U	190 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	1.9 U	1.9 U	8.9 U	1.9 U	0.77 J	1.9 U	1.7 U	0.63 J	1.9 U	1.7 U	0.58 J	1.9 U
2,4-Dichlorophenol	ug/kg	190 U	190 U	180 U	190 U	180 U	190 U	170 U	180 U	190 U	170 U	180 U	190 U
1,2-Diphenylhydrazine	ug/kg	190 U	190 U	180 U	190 U	180 U	190 U	170 U	180 U	190 U	170 U	180 U	190 U
Pyrene (8270C)	ug/kg	--	--	19 J	--	--	--	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	1.9 U	1.9 U	--	1.9 U	5.6	1.9 U	1.7 U	6.7	1.9 U	3.2	3.2	1.9 U
Dimethylphthalate (8270C)	ug/kg	--	--	180 U	--	--	--	--	--	--	--	--	--
Dimethylphthalate (8270C SIM)	ug/kg	21 U	20 U	--	21 U	19 U	20 U	19 U	19 U	21 U	19 U	19 U	21 U
Dibenzofuran	ug/kg	190 U	190 U	180 U	190 U	180 U	190 U	170 U	180 U	190 U	170 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	1.9 U	8.9 U	1.9 U	2	1.9 U	1.7 U	2.6	1.9 U	1.5 J	3.9	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	1.9 U	8.9 U	1.9 U	1.6 J	1.9 U	1.7 U	1.8	1.9 U	0.95 J	2.6	1.9 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	0.89 J	1.9 U	4.9 J	1.9 U	7.2	1.9 U	1.7 U	4.5	1.9 U	2.5	4.8	1.9 U
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	20 J	--	--
Fluoranthene (8270C SIM)	ug/kg	1.9 U	1.9 U	8.2 J	1.9 U	6.9	1.9 U	1.7 U	8.6	1.9 U	--	3.5	1.9 U
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	1.9 U	1.9 U	8.9 U	1.9 U	2.5	1.9 U	1.7 U	1.3 J	1.9 U	0.81 J	1.6 J	1.9 U
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	1.9 U	1.9 U	8.9 U	1.9 U	1.8 U	1.9 U	1.7 U	1.8 U	1.9 U	1.7 U	1.8 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-5B

		Sample Name	SL-203-SA5B-SB-4.0-5.0	SL-203-SA5B-SB-7.5-8.5	SL-204-SA5B-SS-0.0-0.5	SL-204-SA5B-SB-4.0-5.0	SL-205-SA5B-SS-0.0-0.5	SL-205-SA5B-SB-2.5-3.5	SL-206-SA5B-SS-0.0-0.5	SL-207-SA5B-SS-0.0-0.5	SL-207-SA5B-SB-2.5-3.5	SL-208-SA5B-SS-0.0-0.5	SL-209-SA5B-SS-0.0-0.5	SL-209-SA5B-SB-4.0-5.0
		Sample Date	01/27/2011	01/27/2011	12/15/2010	01/31/2011	12/16/2010	02/03/2011	12/17/2010	12/17/2010	02/03/2011	12/17/2010	12/17/2010	02/02/2011
		Lab SDG	DE070	DE070	DE040	DE073	DE043	DE075	DE044	DE044	DE075	DE044	DE044	DE085
		Start Depth	4	7.5	0	4	0	2.5	0	0	2.5	0	0	4
		End Depth	5	8.5	0.5	5	0.5	3.5	0.5	0.5	3.5	0.5	0.5	5
Chemical Name	Unit		Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Chrysene (8270C)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg		0.93 J	1.9 U	4.2 J	1.9 U	6.3	1.9 U	1.7 U	4.8	1.9 U	2.5	3.5	1.9 U
bis(2-Chloroisopropyl) ether	ug/kg		190 U	190 U	180 U	190 U	180 U	190 U	170 U	180 U	190 U	170 U	180 U	190 U
Benzo(a)pyrene (8270C)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg		1.9 U	1.9 U	8.9 U	1.9 U	3	1.9 U	1.7 U	1.6 J	1.9 U	1.3 J	1.8	1.9 U
2,4-Dinitrophenol	ug/kg		1200 U	1100 U	2100 U	1200 U	2100 U	1100 U	2100 U	2100 U	1100 U	2100 U	2100 U	1100 U
4,6-Dinitro-2-Methylphenol	ug/kg		580 U	570 U	540 U	580 U	530 U	570 U	520 U	530 U	570 U	520 U	530 U	570 U
Dibenzo(a,h)anthracene (8270C)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg		1.9 U	1.9 U	8.9 U	1.9 U	1.8 U	1.9 U	1.7 U	1.8 U	1.9 U	1.7 U	1.8 U	1.9 U
Benzo(a)anthracene (8270C)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg		1.9 U	1.9 U	8.9 U	1.9 U	2.4	1.9 U	1.7 U	1.5 J	1.9 U	0.97 J	1.5 J	1.9 U
4-Chloro-3-Methylphenol	ug/kg		190 U	190 U	180 U	190 U	180 U	190 U	170 U	180 U	190 U	170 U	180 U	190 U
N-Nitroso-Di-N-Propylamine	ug/kg		190 U	190 U	180 U	190 U	180 U	190 U	170 U	180 U	190 U	170 U	180 U	190 U
Aniline	ug/kg		580 U	570 U	540 U	580 U	530 U	570 U	520 U	530 U	570 U	520 U	530 U	570 U
Benzoic Acid	ug/kg		580 U	570 U	540 U	580 U	530 U	570 U	520 U	530 U	570 U	520 U	530 U	570 U
Hexachloroethane	ug/kg		190 U	190 U	180 U	190 U	180 U	190 U	170 U	180 U	190 U	170 U	180 U	190 U
4-Chlorophenyl Phenylether	ug/kg		190 U	190 U	180 U	190 U	180 U	190 U	170 U	180 U	190 U	170 U	180 U	190 U
Hexachlorocyclopentadiene	ug/kg		580 U	570 U	540 U	580 U	530 U	570 U	520 U	530 U	570 U	520 U	530 U	570 U
Isophorone	ug/kg		190 U	190 U	180 U	190 U	180 U	190 U	170 U	180 U	190 U	170 U	180 U	190 U
Acenaphthene (8270C)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg		1.9 U	1.9 U	8.9 U	1.9 U	1.8 U	1.9 U	1.7 U	1.8 U	1.9 U	1.7 U	1.8 U	1.9 U
Diethylphthalate (8270C)	ug/kg		--	--	180 U	--	--	--	--	--	--	--	--	--
Diethylphthalate (8270C SIM)	ug/kg		21 U	20 U	--	21 U	19 U	20 U	19 U	19 U	21 U	19 U	19 U	21 U
Di-n-Butylphthalate (8270C)	ug/kg		--	--	180 U	--	--	--	--	--	--	--	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg		21 U	20 U	--	21 U	19 U	20 U	19 U	19 U	21 U	19 U	19 U	21 U
Phenanthrene (8270C)	ug/kg		--	--	--	--	--	--	--	--	--	31 J	--	--
Phenanthrene (8270C SIM)	ug/kg		1.9 U	1.9 U	5.1 J	1.9 U	5.7	1.9 U	1.7 U	5.6	1.9 U	--	2	1.9 U
Butylbenzylphthalate (8270C)	ug/kg		--	--	180 U	--	--	--	--	--	--	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg		21 U	20 U	--	21 U	11 J	20 U	19 U	19 U	21 U	19 U	19 U	21 U
N-Nitrosodiphenylamine	ug/kg		190 U	190 U	180 U	190 U	180 U	190 U	170 U	180 U	190 U	170 U	180 U	190 U
Fluorene (8270C)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--
Fluorene (8270C SIM)	ug/kg		1.9 U	1.9 U	8.9 U	1.9 U	1.8 U	1.9 U	1.7 U	1.8 U	1.9 U	1.7 U	1.8 U	1.9 U
Carbazole	ug/kg		190 U	190 U	180 U	190 U	180 U	190 U	170 U	180 U	190 U	170 U	180 U	190 U
Pentachlorophenol	ug/kg		580 U	570 U	540 U	580 U	530 U	570 U	520 U	530 U	570 U	520 U	530 U	570 U
2,4,6-Trichlorophenol	ug/kg		190 U	190 U	180 U	190 U	180 U	190 U	170 U	180 U	190 U	170 U	180 U	190 U
2-Nitroaniline	ug/kg		190 U	190 U	180 U	190 U	180 U	190 U	170 U	180 U	190 U	170 U	180 U	190 U
2-Nitrophenol	ug/kg		190 U	190 U	180 U	190 U	180 U	190 U	170 U	180 U	190 U	170 U	180 U	190 U
1-Methylnaphthalene (8270C)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg		1.9 U	1.9 U	8.9 U	1.9 U	2.2	1.9 U	1.7 U	1.8 U	1.9 U	1.7 U	1.8 U	1.9 U
Naphthalene (8270C)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene (8270C SIM)	ug/kg		1.9 U	1.9 U	24	1.9 U	2.3	1.9 U	1.7 U	1 J	1.9 U	0.8 J	0.87 J	1.9 U
2-Methylnaphthalene (8270C)	ug/kg		--	--	--	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg		1.9 U	1.9 U	8.9 U	1.9 U	2.9	1.9 U	1.7 U	0.89 J	1.9 U	1.7 U	1.8 U	1.9 U
2-Chloronaphthalene	ug/kg		190 U	190 U	180 U	190 U	180 U	190 U	170 U	180 U	190 U	170 U	180 U	190 U
3,3`-Dichlorobenzidine	ug/kg		390 U	380 U	360 U	380 U	350 U	380 U	350 UJ	350 UJ	380 U	350 UJ	360 UJ	380 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-5B

	Sample Name	SL-203-SA5B-SB-4.0-5.0	SL-203-SA5B-SB-7.5-8.5	SL-204-SA5B-SS-0.0-0.5	SL-204-SA5B-SB-4.0-5.0	SL-205-SA5B-SS-0.0-0.5	SL-205-SA5B-SB-2.5-3.5	SL-206-SA5B-SS-0.0-0.5	SL-207-SA5B-SS-0.0-0.5	SL-207-SA5B-SB-2.5-3.5	SL-208-SA5B-SS-0.0-0.5	SL-209-SA5B-SS-0.0-0.5	SL-209-SA5B-SB-4.0-5.0
	Sample Date	01/27/2011	01/27/2011	12/15/2010	01/31/2011	12/16/2010	02/03/2011	12/17/2010	12/17/2010	02/03/2011	12/17/2010	12/17/2010	02/02/2011
	Lab SDG	DE070	DE070	DE040	DE073	DE043	DE075	DE044	DE044	DE075	DE044	DE044	DE085
	Start Depth	4	7.5	0	4	0	2.5	0	0	2.5	0	0	4
	End Depth	5	8.5	0.5	5	0.5	3.5	0.5	0.5	3.5	0.5	0.5	5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Benzidine	ug/kg	3900 U	3800 U	3600 U	3800 U	3500 U	3800 U	3500 U	3500 U	3800 U	3500 U	3600 U	3800 U
2-Methylphenol	ug/kg	190 U	190 U	180 U	190 U	180 U	190 U	170 U	180 U	190 U	170 U	180 U	190 U
2-Chlorophenol	ug/kg	190 U	190 U	180 U	190 U	180 U	190 U	170 U	180 U	190 U	170 U	180 U	190 U
2,4,5-Trichlorophenol	ug/kg	190 U	190 U	180 U	190 U	180 U	190 U	170 U	180 U	190 U	170 U	180 U	190 U
3-Nitroaniline	ug/kg	190 U	190 U	180 U	190 U	180 U	190 U	170 U	180 U	190 U	170 U	180 U	190 U
Benzyl Alcohol	ug/kg	580 U	570 U	540 U	580 U	530 U	570 U	520 U	530 U	570 U	520 U	530 U	570 U
2,6-Dinitrotoluene	ug/kg	190 U	190 U	180 U	190 U	180 U	190 U	170 U	180 U	190 U	170 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-5B

	Sample Name	SL-210-SA5B-SS-0.0-0.5	SL-210-SA5B-SB-4.0-5.0	SL-211-SA5B-SS-0.0-0.5	SL-211-SA5B-SB-4.0-5.0	SL-212-SA5B-SS-0.0-0.5	SL-213-SA5B-SS-0.0-0.5	SL-214-SA5B-SS-0.0-0.5	SL-215-SA5B-SS-0.0-0.5	SL-216-SA5B-SS-0.0-0.5	SL-217-SA5B-SS-0.0-0.5	SL-219-SA5B-SS-0.0-0.5	SL-225-SA5B-SS-0.0-0.5
	Sample Date	12/17/2010	02/03/2011	12/17/2010	02/03/2011	12/20/2010	12/20/2010	12/20/2010	12/20/2010	12/20/2010	12/20/2010	12/21/2010	12/21/2010
	Lab SDG	DE044	DE075	DE044	DE075	DE047	DE047	DE047	DE047	DE047	DE047	DE049	DE049
	Start Depth	0	4	0	4	0	0	0	0	0	0	0	0
	End Depth	0.5	5	0.5	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
N-Nitrosodimethylamine (1625C)	ng/kg	--	--	--	--	--	--	--	--	--	--	--	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.8 U	1.8 U	1.9 U	1.9 U	10 U	9.4 U	110 U	12 U	2.1 U	12 U	2.1 U	2.2 U
2,4-Dinitrotoluene	ug/kg	180 U	180 U	190 U	190 U	200 U	190 U	2200 U	230 U	210 U	230 U	210 U	220 U
Nitrobenzene	ug/kg	180 U	180 U	190 U	190 U	200 U	190 U	2200 U	230 U	210 U	230 U	210 U	220 U
1,4-Dichlorobenzene	ug/kg	180 U	180 U	190 U	190 U	200 U	190 U	2200 U	230 U	210 U	230 U	210 U	220 U
1,2,4-Trichlorobenzene	ug/kg	180 U	180 U	190 U	190 U	200 U	190 U	2200 U	230 U	210 U	230 U	210 U	220 U
1,3-Dichlorobenzene	ug/kg	180 U	180 U	190 U	190 U	200 U	190 U	2200 U	230 U	210 U	230 U	210 U	220 U
Hexachlorobutadiene	ug/kg	180 U	180 U	190 U	190 U	200 U	190 U	2200 U	230 U	210 U	230 U	210 U	220 U
1,2-Dichlorobenzene	ug/kg	180 U	180 U	190 U	190 U	200 U	190 U	2200 U	230 U	210 U	230 U	210 U	220 U
4-Nitroaniline	ug/kg	180 U	180 U	190 U	190 U	200 U	190 U	2200 U	230 U	210 U	230 U	210 U	220 U
4-Nitrophenol	ug/kg	530 U	540 U	560 U	570 U	600 U	560 U	6500 U	700 U	620 U	700 U	640 U	670 U
4-Bromophenyl Phenyl Ether	ug/kg	180 U	180 U	190 U	190 U	200 U	190 U	2200 U	230 U	210 U	230 U	210 U	220 U
2,4-Dimethylphenol	ug/kg	180 U	180 U	190 U	190 U	200 U	190 U	2200 U	230 U	210 U	230 U	210 U	220 U
4-Methylphenol	ug/kg	180 U	180 U	190 U	190 U	200 U	190 U	2200 U	230 U	210 U	230 U	210 U	220 U
4-Chloroaniline	ug/kg	180 U	180 U	190 U	190 U	200 U	190 U	2200 U	230 U	210 U	230 U	210 U	220 U
3,5-Dimethylphenol	ug/kg	180 U	180 U	190 U	190 U	200 U	190 U	2200 U	230 U	210 U	230 U	210 U	220 U
Phenol	ug/kg	180 U	180 U	190 U	190 U	200 U	190 U	2200 U	230 U	210 U	230 U	210 U	220 U
Bis(2-Chloroethyl) ether	ug/kg	180 U	180 U	190 U	190 U	200 U	190 U	2200 U	230 U	210 U	230 U	210 U	220 U
Bis(2-Chloroethoxy) methane	ug/kg	180 U	180 U	190 U	190 U	200 U	190 U	2200 U	230 U	210 U	230 U	210 U	220 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	--	--	31 J	--	180 J	76000	330 J	42 J	120 J	--	310 J	85 J
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	23	20 U	--	20 U	--	--	--	--	--	810	--	--
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	--	--	66 J	14000	2200 U	230 U	--	--	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	19 U	20 U	20 U	20 U	--	--	--	--	22 U	210	270	40
Hexachlorobenzene	ug/kg	180 U	180 U	190 U	190 U	100 J	25 J	2200 U	230 U	210 U	500	170 J	28 J
Anthracene (8270C)	ug/kg	--	--	--	--	37 J	--	--	--	--	--	140 J	--
Anthracene (8270C SIM)	ug/kg	0.61 J	1.8 U	1.6 J	1.9 U	--	20	25 J	4.9 J	0.47 J	380	--	74
2,4-Dichlorophenol	ug/kg	180 U	180 U	190 U	190 U	200 U	190 U	2200 U	230 U	210 U	230 U	210 U	220 U
1,2-Diphenylhydrazine	ug/kg	180 U	180 U	190 U	190 U	200 U	190 U	2200 U	230 U	210 U	230 U	210 U	220 U
Pyrene (8270C)	ug/kg	--	--	--	--	310	--	550 J	--	--	--	1600	--
Pyrene (8270C SIM)	ug/kg	4.2	1.8 U	8.6	1.9 U	--	280	--	31	3.3	9300	--	270
Dimethylphthalate (8270C)	ug/kg	--	--	--	--	200 U	190 U	2200 U	230 U	--	230 U	--	--
Dimethylphthalate (8270C SIM)	ug/kg	19 U	20 U	20 U	20 U	--	--	--	--	22 U	--	23 U	24 U
Dibenzofuran	ug/kg	180 U	180 U	190 U	190 U	100 J	26 J	2200 U	230 U	210 U	240	130 J	31 J
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	700	--	1500 J	--	--	--	5600	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	5.5	1.8 U	19	1.9 U	--	170	--	28	3.2	53000	--	3800
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	580	150 J	1700 J	--	--	--	5100	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	3.5	1.8 U	9.8	1.9 U	--	--	--	45	3.7	49000	--	3200
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	27 J	--	3300	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	6.5	1.8 U	18	1.9 U	410	550	2900	230	--	20000	--	1100 J
Fluoranthene (8270C)	ug/kg	--	--	--	--	220	--	650 J	--	--	--	1200	--
Fluoranthene (8270C SIM)	ug/kg	4.5	1.8 U	8.2	1.9 U	--	260	--	41	2.9	6800	--	430 J
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	100 J	20 J	--	--	--	--	1000	150 J
Benzo(k)fluoranthene (8270C SIM)	ug/kg	2.1	1.8 U	1.9 U	1.9 U	--	--	110 U	12 U	2.1 U	4900	--	--
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	41 J	--
Acenaphthylene (8270C SIM)	ug/kg	1.8 U	1.8 U	0.56 J	1.9 U	13	17	110 U	12 U	2.1 U	160	--	20

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-5B

	Sample Name	SL-210-SA5B-SS-0.0-0.5	SL-210-SA5B-SB-4.0-5.0	SL-211-SA5B-SS-0.0-0.5	SL-211-SA5B-SB-4.0-5.0	SL-212-SA5B-SS-0.0-0.5	SL-213-SA5B-SS-0.0-0.5	SL-214-SA5B-SS-0.0-0.5	SL-215-SA5B-SS-0.0-0.5	SL-216-SA5B-SS-0.0-0.5	SL-217-SA5B-SS-0.0-0.5	SL-219-SA5B-SS-0.0-0.5	SL-225-SA5B-SS-0.0-0.5
	Sample Date	12/17/2010	02/03/2011	12/17/2010	02/03/2011	12/20/2010	12/20/2010	12/20/2010	12/20/2010	12/20/2010	12/20/2010	12/21/2010	12/21/2010
	Lab SDG	DE044	DE075	DE044	DE075	DE047	DE047	DE047	DE047	DE047	DE047	DE049	DE049
	Start Depth	0	4	0	4	0	0	0	0	0	0	0	0
	End Depth	0.5	5	0.5	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
Chrysene (8270C)	ug/kg	--	--	--	--	270	--	1900 J	--	--	--	1700	--
Chrysene (8270C SIM)	ug/kg	4.2	1.8 U	7.2	1.9 U	--	650	--	93	8	3700	--	280
bis(2-Chloroisopropyl) ether	ug/kg	180 U	180 U	190 U	190 U	200 U	190 U	2200 U	230 U	210 U	230 U	210 U	220 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	270	--	1100 J	--	--	--	2500	--
Benzo(a)pyrene (8270C SIM)	ug/kg	3	1.8 U	5.5	1.9 U	--	440	--	59	6	17000	--	580
2,4-Dinitrophenol	ug/kg	2100 U	1100 U	2300 R	1100 U	2400 U	2200 U	26000 U	2800 U	2500 U	2800 U	2600 U	2700 U
4,6-Dinitro-2-Methylphenol	ug/kg	530 U	540 U	560 U	570 U	600 U	560 U	6500 U	700 U	620 U	700 U	640 U	670 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	70 J	--	--	--	--	--	510	170 J
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	1.8 U	1.8 U	1.1 J	1.9 U	--	46	160	9.6 J	1.1 J	1600	--	--
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	160 J	--	--	--	--	--	880	--
Benzo(a)anthracene (8270C SIM)	ug/kg	2.9	1.8 U	4.1	1.9 U	--	340	310	18	3.9	1500	--	180
4-Chloro-3-Methylphenol	ug/kg	180 U	180 U	190 U	190 U	200 U	190 U	2200 U	230 U	210 U	230 U	210 U	220 U
N-Nitroso-Di-N-Propylamine	ug/kg	180 U	180 U	190 U	190 U	200 U	190 U	2200 U	230 U	210 U	230 U	210 U	220 U
Aniline	ug/kg	530 U	540 U	560 U	570 U	600 U	560 U	6500 U	700 U	620 U	700 U	640 U	670 U
Benzoic Acid	ug/kg	530 U	540 U	560 U	570 U	600 U	560 U	6500 U	700 U	620 U	700 U	640 U	670 U
Hexachloroethane	ug/kg	180 U	180 U	190 U	190 U	200 U	190 U	2200 U	230 U	210 U	230 U	210 U	220 U
4-Chlorophenyl Phenylether	ug/kg	180 U	180 U	190 U	190 U	200 U	190 U	2200 U	230 U	210 U	230 U	210 U	220 U
Hexachlorocyclopentadiene	ug/kg	530 U	540 U	560 U	570 U	600 U	560 U	6500 U	700 U	620 U	700 U	640 U	670 U
Isophorone	ug/kg	180 U	180 U	190 U	190 U	200 U	190 U	2200 U	230 U	210 U	230 U	210 U	220 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	1.8 U	1.8 U	1.9 U	1.9 U	6.7 J	7.1 J	110 U	12 U	2.1 U	23	12	1.7 J
Diethylphthalate (8270C)	ug/kg	--	--	--	--	200 U	190 U	2200 U	230 U	--	230 U	--	--
Diethylphthalate (8270C SIM)	ug/kg	19 U	20 U	20 U	20 U	--	--	--	--	22 U	--	23 U	24 U
Di-n-Butylphthalate (8270C)	ug/kg	--	--	--	--	200 U	22 J	2200 U	230 U	--	230 U	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	6.5 J	20 U	20 U	20 U	--	--	--	--	22 U	--	28	24 U
Phenanthrene (8270C)	ug/kg	--	--	--	--	300	--	330 J	--	--	--	720	--
Phenanthrene (8270C SIM)	ug/kg	2.2	1.8 U	4	1.9 U	--	150	--	26	2.5	2900	--	460
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	--	340	190 U	2200 U	230 U	--	87 J	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	19 U	20 U	20 U	20 U	--	--	--	--	22 U	--	16 J	14 J
N-Nitrosodiphenylamine	ug/kg	180 U	180 U	190 U	190 U	200 U	190 U	2200 U	230 U	210 U	230 U	210 U	220 U
Fluorene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Fluorene (8270C SIM)	ug/kg	1.8 U	1.8 U	1.9 U	1.9 U	7.3 J	4 J	110 U	12 U	2.1 U	40	8.8	4.5
Carbazole	ug/kg	180 U	180 U	190 U	190 U	27 J	190 U	2200 U	230 U	210 U	60 J	29 J	220 U
Pentachlorophenol	ug/kg	530 U	540 U	560 U	570 U	600 U	560 U	6500 U	700 U	620 U	700 U	640 U	670 U
2,4,6-Trichlorophenol	ug/kg	180 U	180 U	190 U	190 U	200 U	190 U	2200 U	230 U	210 U	230 U	210 U	220 U
2-Nitroaniline	ug/kg	180 U	180 U	190 U	190 U	200 U	190 U	2200 U	230 U	210 U	230 U	210 U	220 U
2-Nitrophenol	ug/kg	180 U	180 U	190 U	190 U	200 U	190 U	2200 U	230 U	210 U	230 U	210 U	220 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	240	--
1-Methylnaphthalene (8270C SIM)	ug/kg	1.8 U	1.8 U	1.9 U	1.9 U	260	40	110 U	4.8 J	0.95 J	550	--	69
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	190 J	--
Naphthalene (8270C SIM)	ug/kg	0.83 J	1.8 U	1.5 J	1.9 U	150	29	110 U	5.1 J	1.3 J	690	--	80
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	290	--
2-Methylnaphthalene (8270C SIM)	ug/kg	1.8 U	1.8 U	1.2 J	1.9 U	310	48	110 U	5.3 J	1.3 J	700	--	82
2-Chloronaphthalene	ug/kg	180 U	180 U	190 U	190 U	200 U	190 U	2200 U	230 U	210 U	230 U	210 U	220 U
3,3`-Dichlorobenzidine	ug/kg	350 UJ	360 U	380 UJ	380 U	400 U	370 U	4300 U	460 U	410 U	470 U	430 U	440 U

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

Appendix A6
Semivolatile Organics - Validated Data
HSA-5B

	Sample Name	SL-210-SA5B-SS-0.0-0.5	SL-210-SA5B-SB-4.0-5.0	SL-211-SA5B-SS-0.0-0.5	SL-211-SA5B-SB-4.0-5.0	SL-212-SA5B-SS-0.0-0.5	SL-213-SA5B-SS-0.0-0.5	SL-214-SA5B-SS-0.0-0.5	SL-215-SA5B-SS-0.0-0.5	SL-216-SA5B-SS-0.0-0.5	SL-217-SA5B-SS-0.0-0.5	SL-219-SA5B-SS-0.0-0.5	SL-225-SA5B-SS-0.0-0.5
	Sample Date	12/17/2010	02/03/2011	12/17/2010	02/03/2011	12/20/2010	12/20/2010	12/20/2010	12/20/2010	12/20/2010	12/20/2010	12/21/2010	12/21/2010
	Lab SDG	DE044	DE075	DE044	DE075	DE047	DE047	DE047	DE047	DE047	DE047	DE049	DE049
	Start Depth	0	4	0	4	0	0	0	0	0	0	0	0
	End Depth	0.5	5	0.5	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
Benzidine	ug/kg	3500 U	3600 U	3800 UJ	3800 U	4000 U	3700 U	43000 U	4600 R	4100 U	4700 U	4300 U	4400 U
2-Methylphenol	ug/kg	180 U	180 U	190 U	190 U	200 U	190 U	2200 U	230 U	210 U	230 U	210 U	220 U
2-Chlorophenol	ug/kg	180 U	180 U	190 U	190 U	200 U	190 U	2200 U	230 U	210 U	230 U	210 U	220 U
2,4,5-Trichlorophenol	ug/kg	180 U	180 U	190 U	190 U	200 U	190 U	2200 U	230 U	210 U	230 U	210 U	220 U
3-Nitroaniline	ug/kg	180 U	180 U	190 U	190 U	200 U	190 U	2200 U	230 U	210 U	230 U	210 U	220 U
Benzyl Alcohol	ug/kg	530 U	540 U	560 U	570 U	600 U	560 U	6500 U	700 U	620 U	700 U	640 U	670 U
2,6-Dinitrotoluene	ug/kg	180 U	180 U	190 U	190 U	200 U	190 U	2200 U	230 U	210 U	230 U	210 U	220 U

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Appendix A6
Semivolatile Organics - Validated Data
HSA-5B

	Sample Name	SL-225-SA5B-SB-2.0-3.0	SL-226-SA5B-SS-0.0-0.5	SL-227-SA5B-SS-0.0-0.5	SL-227-SA5B-SB-2.5-3.5	SL-228-SA5B-SS-0.0-0.5	SL-229-SA5B-SS-0.0-0.5	SL-229-SA5B-SB-2.0-3.0	SL-230-SA5B-SS-0.0-0.5	SL-230-SA5B-SB-2.0-3.0	SL-231-SA5B-SS-0.0-0.5	SL-232-SA5B-SS-0.0-0.5	SL-233-SA5B-SS-0.0-0.5
	Sample Date	03/09/2011	12/21/2010	12/21/2010	03/11/2011	12/10/2010	12/10/2010	02/03/2011	12/09/2010	02/03/2011	12/09/2010	12/10/2010	12/10/2010
	Lab SDG	DE101	DE049	DE049	DE102	DE034	DE034	DE075	DE031	DE075	DE031	DE034	DE034
	Start Depth	2	0	0	2.5	0	0	2	0	2	0	0	0
	End Depth	3	0.5	0.5	3.5	0.5	0.5	3	0.5	3	0.5	0.5	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
N-Nitrosodimethylamine (1625C)	ng/kg	27.4 J	--	--	380 U	--	--	36.8 U	--	38.2 U	--	--	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.9 U	2.1 U	2 U	1.9 U	2.3 U	1.9 U	1.8 U	1.9 U	1.9 U	1.7 U	1.9 U	1.9 U
2,4-Dinitrotoluene	ug/kg	190 U	210 U	200 U	190 U	230 U	190 U	180 U	190 U	190 U	170 U	190 U	190 U
Nitrobenzene	ug/kg	190 U	210 U	200 U	190 U	230 U	190 U	180 U	190 U	190 U	170 U	190 U	190 U
1,4-Dichlorobenzene	ug/kg	190 U	210 U	200 U	190 U	230 U	190 U	180 U	190 U	190 U	170 U	190 U	190 U
1,2,4-Trichlorobenzene	ug/kg	190 U	210 U	200 U	190 U	230 U	190 U	180 U	190 U	190 U	170 U	190 U	190 U
1,3-Dichlorobenzene	ug/kg	190 U	210 U	200 U	190 U	230 U	190 U	180 U	190 U	190 U	170 U	190 U	190 U
Hexachlorobutadiene	ug/kg	190 U	210 U	200 U	190 U	230 U	190 U	180 U	190 U	190 U	170 U	190 U	190 U
1,2-Dichlorobenzene	ug/kg	190 U	210 U	200 U	190 U	230 U	190 U	180 U	190 U	190 U	170 U	190 U	190 U
4-Nitroaniline	ug/kg	190 U	210 U	200 U	190 U	230 U	190 U	180 U	190 U	190 U	170 U	190 U	190 U
4-Nitrophenol	ug/kg	570 U	620 U	610 U	570 U	690 U	570 U	550 U	560 U	570 U	520 U	580 U	570 U
4-Bromophenyl Phenyl Ether	ug/kg	190 U	210 U	200 U	190 U	230 U	190 U	180 U	190 U	190 U	170 U	190 U	190 U
2,4-Dimethylphenol	ug/kg	190 U	210 U	200 U	190 U	230 U	190 U	180 U	190 U	190 U	170 U	190 U	190 U
4-Methylphenol	ug/kg	190 U	210 U	200 U	190 U	230 U	190 U	180 U	190 U	190 U	170 U	190 U	190 U
4-Chloroaniline	ug/kg	190 U	210 U	200 U	190 U	230 U	190 U	180 U	190 U	190 U	170 U	190 U	190 U
3,5-Dimethylphenol	ug/kg	190 U	210 U	200 U	190 U	230 U	190 U	180 U	190 U	190 U	170 U	190 U	190 U
Phenol	ug/kg	190 U	210 U	200 U	190 U	230 U	190 U	180 U	190 U	190 U	170 U	190 U	190 U
Bis(2-Chloroethyl) ether	ug/kg	190 U	210 U	200 U	190 U	230 U	190 U	180 U	190 U	190 U	170 U	190 U	190 U
Bis(2-Chloroethoxy) methane	ug/kg	190 U	210 U	200 U	190 U	230 U	190 U	180 U	190 U	190 U	170 U	190 U	190 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	--	--	32 J	--	--	--	26 J	26 J	--	--	--	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	21 U	12 J	--	21 U	12 J	11 J	20 U	--	21 U	9 J	12 J	19 J
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	--	190 U	--	--	--	--	--	--	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	21 U	22 U	22 U	--	25 U	21 U	20 U	20 U	21 U	19 U	21 U	7.1 J
Hexachlorobenzene	ug/kg	190 U	210 U	200 U	190 U	230 U	190 U	180 U	190 U	190 U	170 U	190 U	190 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	1.9 U	2 J	2 U	1.9 U	2.3 U	1.9 U	1.8 U	2.8	1.9 U	1.7 U	1.9 U	1.9 U
2,4-Dichlorophenol	ug/kg	190 U	210 U	200 U	190 U	230 U	190 U	180 U	190 U	190 U	170 U	190 U	190 U
1,2-Diphenylhydrazine	ug/kg	190 U	210 U	200 U	190 U	230 U	190 U	180 U	190 U	190 U	170 U	190 U	190 U
Pyrene (8270C)	ug/kg	--	23 J	--	--	180 J	--	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	1.9 U	--	1.8 J	1.9 U	--	1.9 U	1.8 U	34	1.9 U	1.2 J	0.9 J	1.3 J
Dimethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Dimethylphthalate (8270C SIM)	ug/kg	21 U	22 U	22 U	21 U	25 U	21 U	20 U	20 U	21 U	19 U	21 U	20 U
Dibenzofuran	ug/kg	190 U	210 U	200 U	190 U	230 U	190 U	180 U	190 U	190 U	170 U	190 U	190 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	170 J	27 J	--	44 J	--	--	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	6	--	--	1.9 U	--	1.9 U	1.8 U	4.1	1.9 U	0.76 J	1.1 J	0.9 J
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	140 J	--	--	36 J	--	--	--	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	5	--	4.6	1.9 U	--	1.9 U	1.8 U	3	1.9 U	1.7 U	1.9 U	1.9 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	82 J	--	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	2.1	46	3.4	0.8	--	1.9 U	1.8 U	19	1.9 U	1.8	2.1	1.6 J
Fluoranthene (8270C)	ug/kg	--	26 J	--	--	160 J	--	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	1.9 U	--	2.1 J	1.9 U	--	1.9 U	1.8 U	45	1.9 U	1.3 J	1.2 J	1.8 J
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	36 J	--	--	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	1.9 U	12	1.4 J	0.94	--	1.9 U	1.8 U	9.5	1.9 U	0.85 J	1.9 U	1.9 U
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	1.9 U	1.1 J	0.42 J	1.9 U	2.3 U	1.9 U	1.8 U	1.9 U	1.9 U	1.7 U	1.9 U	1.9 U

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Appendix A6
Semivolatile Organics - Validated Data
HSA-5B

	Sample Name	SL-225-SA5B-SB-2.0-3.0	SL-226-SA5B-SS-0.0-0.5	SL-227-SA5B-SS-0.0-0.5	SL-227-SA5B-SB-2.5-3.5	SL-228-SA5B-SS-0.0-0.5	SL-229-SA5B-SS-0.0-0.5	SL-229-SA5B-SB-2.0-3.0	SL-230-SA5B-SS-0.0-0.5	SL-230-SA5B-SB-2.0-3.0	SL-231-SA5B-SS-0.0-0.5	SL-232-SA5B-SS-0.0-0.5	SL-233-SA5B-SS-0.0-0.5
	Sample Date	03/09/2011	12/21/2010	12/21/2010	03/11/2011	12/10/2010	12/10/2010	02/03/2011	12/09/2010	02/03/2011	12/09/2010	12/10/2010	12/10/2010
	Lab SDG	DE101	DE049	DE049	DE102	DE034	DE034	DE075	DE031	DE075	DE031	DE034	DE034
	Start Depth	2	0	0	2.5	0	0	2	0	2	0	0	0
	End Depth	3	0.5	0.5	3.5	0.5	0.5	3	0.5	3	0.5	0.5	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Chrysene (8270C)	ug/kg	--	--	--	--	88 J	--	--	--	--	--	21 J	--
Chrysene (8270C SIM)	ug/kg	0.48 J	14	2.2	0.75	--	1.9 U	1.8 U	14	1.9 U	1.2 J	--	1.4 J
bis(2-Chloroisopropyl) ether	ug/kg	190 U	210 U	200 U	190 U	230 U	190 U	180 U	190 U	190 U	170 U	190 U	190 U
Benzo(a)pyrene (8270C)	ug/kg	--	30 J	--	--	54 J	--	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	0.84 J	--	1.8 J	1.9 U	--	1.9 U	1.8 U	14	1.9 U	1.1 J	1.9 U	0.85 J
2,4-Dinitrophenol	ug/kg	1100 U	2500 U	2400 U	1100 U	2800 U	2300 U	1100 U	2200 U	1100 U	2100 U	2300 U	2300 U
4,6-Dinitro-2-Methylphenol	ug/kg	570 U	620 U	610 U	570 U	690 U	570 U	550 U	560 U	570 U	520 U	580 U	570 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	30 J	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	1.9 U	4.5	2 U	1.9 U	--	1.9 U	1.8 U	1.3 J	1.9 U	1.7 U	1.9 U	1.9 U
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	65 J	--	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	1.9 U	6.9	1 J	1.9 U	--	1.9 U	1.8 U	17	1.9 U	0.81 J	1.9 U	1.9 U
4-Chloro-3-Methylphenol	ug/kg	190 U	210 U	200 U	190 U	230 U	190 U	180 U	190 U	190 U	170 U	190 U	190 U
N-Nitroso-Di-N-Propylamine	ug/kg	190 U	210 U	200 U	190 U	230 U	190 U	180 U	190 U	190 U	170 U	190 U	190 U
Aniline	ug/kg	570 U	620 U	610 U	570 U	690 U	570 U	550 U	560 U	570 U	520 U	580 U	570 U
Benzoic Acid	ug/kg	570 U	620 U	610 U	570 U	690 U	570 U	550 U	560 U	570 U	520 U	580 U	570 U
Hexachloroethane	ug/kg	190 U	210 U	200 U	190 U	230 U	190 U	180 U	190 U	190 U	170 U	190 U	190 U
4-Chlorophenyl Phenylether	ug/kg	190 U	210 U	200 U	190 U	230 U	190 U	180 U	190 U	190 U	170 U	190 U	190 U
Hexachlorocyclopentadiene	ug/kg	570 U	620 U	610 U	570 U	690 U	570 U	550 U	560 U	570 U	520 U	580 U	570 U
Isophorone	ug/kg	190 U	210 U	200 U	190 U	230 U	190 U	180 U	190 U	190 U	170 U	190 U	190 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	1.9 U	2.1 U	2 U	1.9 U	2.3 U	1.9 U	1.8 U	1.9 U	1.9 U	1.7 U	1.9 U	1.9 U
Diethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Diethylphthalate (8270C SIM)	ug/kg	21 U	22 U	22 U	21 U	25 U	21 U	20 U	20 U	21 U	19 U	21 U	20 U
Di-n-Butylphthalate (8270C)	ug/kg	190 U	--	--	190 U	26 J	--	--	--	--	--	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	--	22 U	22 U	--	--	21 U	20 U	20 U	21 U	19 U	21 U	20 U
Phenanthrene (8270C)	ug/kg	--	21 J	--	--	79 J	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	1.9 U	--	1.7 J	1.9 U	--	1.9 U	1.8 U	12	1.9 U	1.7 U	1.9 U	1.9 U
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	21 U	22 U	22 U	21 U	25 U	21 U	20 U	20 U	21 U	19 U	21 U	7.4 J
N-Nitrosodiphenylamine	ug/kg	190 U	210 U	200 U	190 U	230 U	190 U	180 U	190 U	190 U	170 U	190 U	190 U
Fluorene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Fluorene (8270C SIM)	ug/kg	1.9 U	2.1 U	2 U	1.9 U	2.3 U	1.9 U	1.8 U	0.93 J	1.9 U	1.7 U	1.9 U	1.9 U
Carbazole	ug/kg	190 U	210 U	200 U	190 U	230 U	190 U	180 U	190 U	190 U	170 U	190 U	190 U
Pentachlorophenol	ug/kg	570 U	620 U	610 U	570 U	690 U	570 U	550 U	560 U	570 U	520 U	580 U	570 U
2,4,6-Trichlorophenol	ug/kg	190 U	210 U	200 U	190 U	230 U	190 U	180 U	190 U	190 U	170 U	190 U	190 U
2-Nitroaniline	ug/kg	190 U	210 U	200 U	190 U	230 U	190 U	180 U	190 U	190 U	170 U	190 U	190 U
2-Nitrophenol	ug/kg	190 U	210 U	200 U	190 U	230 U	190 U	180 U	190 U	190 U	170 U	190 U	190 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	1.9 U	1.9 J	2 U	1.9 U	2.3 U	1.9 U	1.8 U	1.9 U	1.9 U	1.7 U	1.9 U	1.9 U
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene (8270C SIM)	ug/kg	1.4 J	3.1	2.8	1	2.3 U	1.9 U	1.8 U	1.9 U	1.9 U	1.7 U	1.9 U	1.9 U
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	1.9 U	2.3	1 J	1.9 U	2.3 U	1.9 U	1.8 U	1.9 U	1.9 U	1.7 U	1.9 U	1.9 U
2-Chloronaphthalene	ug/kg	190 U	210 U	200 U	190 U	230 U	190 U	180 U	190 U	190 U	170 U	190 U	190 U
3,3`-Dichlorobenzidine	ug/kg	380 U	410 U	400 U	380 U	460 U	380 U	370 U	370 UJ	380 U	350 UJ	380 U	380 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-5B

	Sample Name	SL-225-SA5B-SB-2.0-3.0	SL-226-SA5B-SS-0.0-0.5	SL-227-SA5B-SS-0.0-0.5	SL-227-SA5B-SB-2.5-3.5	SL-228-SA5B-SS-0.0-0.5	SL-229-SA5B-SS-0.0-0.5	SL-229-SA5B-SB-2.0-3.0	SL-230-SA5B-SS-0.0-0.5	SL-230-SA5B-SB-2.0-3.0	SL-231-SA5B-SS-0.0-0.5	SL-232-SA5B-SS-0.0-0.5	SL-233-SA5B-SS-0.0-0.5
	Sample Date	03/09/2011	12/21/2010	12/21/2010	03/11/2011	12/10/2010	12/10/2010	02/03/2011	12/09/2010	02/03/2011	12/09/2010	12/10/2010	12/10/2010
	Lab SDG	DE101	DE049	DE049	DE102	DE034	DE034	DE075	DE031	DE075	DE031	DE034	DE034
	Start Depth	2	0	0	2.5	0	0	2	0	2	0	0	0
	End Depth	3	0.5	0.5	3.5	0.5	0.5	3	0.5	3	0.5	0.5	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Benzidine	ug/kg	3800 U	4100 U	4000 U	3800 U	4600 U	3800 U	3700 U	3700 U	3800 U	3500 U	3800 U	3800 U
2-Methylphenol	ug/kg	190 U	210 U	200 U	190 U	230 U	190 U	180 U	190 U	190 U	170 U	190 U	190 U
2-Chlorophenol	ug/kg	190 U	210 U	200 U	190 U	230 U	190 U	180 U	190 U	190 U	170 U	190 U	190 U
2,4,5-Trichlorophenol	ug/kg	190 U	210 U	200 U	190 U	230 U	190 U	180 U	190 U	190 U	170 U	190 U	190 U
3-Nitroaniline	ug/kg	190 U	210 U	200 U	190 U	230 U	190 U	180 U	190 U	190 U	170 U	190 U	190 U
Benzyl Alcohol	ug/kg	570 U	620 U	610 U	570 U	690 U	570 U	550 U	560 U	570 U	520 U	580 U	570 U
2,6-Dinitrotoluene	ug/kg	190 U	210 U	200 U	190 U	230 U	190 U	180 U	190 U	190 U	170 U	190 U	190 U

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

Appendix A6
Semivolatile Organics - Validated Data
HSA-5B

	Sample Name	SL-234-SA5B-SS-0.0-0.5	SL-234-SA5B-SB-2.5-3.5	SL-235-SA5B-SS-0.0-0.5	SL-236-SA5B-SS-0.0-0.5	SL-240-SA5B-SS-0.0-0.5	SL-240-SA5B-SB-4.0-5.0	SL-240-SA5B-SB-9.0-10.0	SL-253-SA5B-SS-0.0-0.5	SL-253-SA5B-SB-3.0-4.0	SL-254-SA5B-SS-0.0-0.5	SL-254-SA5B-SB-3.5-4.5	SL-255-SA5B-SS-0.0-0.5
	Sample Date	12/10/2010	01/07/2011	12/10/2010	12/13/2010	12/14/2010	01/10/2011	01/10/2011	02/11/2011	01/21/2011	02/11/2011	01/21/2011	12/20/2010
	Lab SDG	DE035	DE055	DE035	DE036	DE038	DE056	DE056	DE081	DE066	DE081	DE066	DE047
	Start Depth	0	2.5	0	0	0	4	9	0	3	0	3.5	0
	End Depth	0.5	3.5	0.5	0.5	0.5	5	10	0.5	4	0.5	4.5	0.5
Chemical Name	Unit	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	1.8 U	1.8 U	1.8 U	1.7 U	1.9 U	1.8 U	1.8 U	1.9 U	1.7 U	1.8 U	2.1 U
2,4-Dinitrotoluene	ug/kg	180 U	180 U	180 U	180 U	170 U	190 U	180 U	180 U	190 U	170 U	180 U	210 U
Nitrobenzene	ug/kg	180 U	180 U	180 U	180 U	170 U	190 U	180 U	180 U	190 U	170 U	180 U	210 U
1,4-Dichlorobenzene	ug/kg	180 U	180 U	180 U	180 U	170 U	190 U	180 U	180 U	190 U	170 U	180 U	210 U
1,2,4-Trichlorobenzene	ug/kg	180 U	180 U	180 U	180 U	170 U	190 U	180 U	180 U	190 U	170 U	180 U	210 U
1,3-Dichlorobenzene	ug/kg	180 U	180 U	180 U	180 U	170 U	190 U	180 U	180 U	190 U	170 U	180 U	210 U
Hexachlorobutadiene	ug/kg	180 U	180 U	180 U	180 U	170 U	190 U	180 U	180 U	190 U	170 U	180 U	210 U
1,2-Dichlorobenzene	ug/kg	180 U	180 U	180 U	180 U	170 U	190 U	180 U	180 U	190 U	170 U	180 U	210 U
4-Nitroaniline	ug/kg	180 U	180 U	180 U	180 U	170 U	190 U	180 U	180 U	190 U	170 U	180 U	210 U
4-Nitrophenol	ug/kg	550 U	550 U	540 U	530 U	520 U	570 U	550 U	530 U	580 U	520 U	550 U	620 U
4-Bromophenyl Phenyl Ether	ug/kg	180 U	180 U	180 U	180 U	170 U	190 U	180 U	180 U	190 U	170 U	180 U	210 U
2,4-Dimethylphenol	ug/kg	180 U	180 U	180 U	180 U	170 U	190 U	180 U	180 U	190 U	170 U	180 U	210 U
4-Methylphenol	ug/kg	180 U	180 U	180 U	180 U	170 U	190 U	180 U	180 U	190 U	170 U	180 U	210 U
4-Chloroaniline	ug/kg	180 U	180 U	180 U	180 U	170 U	190 U	180 U	180 U	190 U	170 U	180 U	210 U
3,5-Dimethylphenol	ug/kg	180 U	180 U	180 U	180 U	170 U	190 U	180 U	180 U	190 U	170 U	180 U	210 U
Phenol	ug/kg	180 U	180 U	180 U	180 U	170 U	190 U	180 U	180 U	190 U	170 U	180 U	210 U
Bis(2-Chloroethyl) ether	ug/kg	180 U	180 U	180 U	180 U	170 U	190 U	180 U	180 U	190 U	170 U	180 U	210 U
Bis(2-Chloroethoxy) methane	ug/kg	180 U	180 U	180 U	180 U	170 U	190 U	180 U	180 U	190 U	170 U	180 U	210 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	21 J	--	21 J	28 J	350 U	--	--	28 J	--	25 J	--	29 J
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	--	20 U	--	--	--	21 U	20 U	--	21 U	--	20 U	--
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	20 U	20 U	19 U	11 J	19 U	21 U	20 U	19 U	21 U	19 U	20 U	22 U
Hexachlorobenzene	ug/kg	180 U	180 U	180 U	180 U	170 U	190 U	180 U	180 U	190 U	170 U	180 U	210 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	0.57 J	1.8 U	1.8 U	1.8 U	1.7 U	1.9 U	1.8 U	1.8 U	1.9 U	1.7 U	1.8 U	2.1 U
2,4-Dichlorophenol	ug/kg	180 U	180 U	180 U	180 U	170 U	190 U	180 U	180 U	190 U	170 U	180 U	210 U
1,2-Diphenylhydrazine	ug/kg	180 U	180 U	180 U	180 U	170 U	190 U	180 U	180 U	190 U	170 U	180 U	210 U
Pyrene (8270C)	ug/kg	33 J	--	--	--	--	--	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	--	1.8 U	2.2	2.7	1.2 J	9	1.8 U	1.8 U	1.9 U	1.1 J	1.8 U	3.5
Dimethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Dimethylphthalate (8270C SIM)	ug/kg	20 U	20 U	19 U	19 U	19 U	21 U	20 U	19 U	21 U	19 U	20 U	22 U
Dibenzofuran	ug/kg	180 U	180 U	180 U	180 U	170 U	190 U	180 U	180 U	190 U	170 U	180 U	210 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	5.6	1.8 U	2.6	3.7	1.7 U	4.1	1.8 U	1.8 U	1.9 U	1.4 J	1.8 U	7.4
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	4.7	1.8 U	1.1 J	1.6 J	1.7 U	2.6	1.8 U	1.8 U	1.9 U	1.7 U	1.8 U	6.6
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	29	1.8 U	6.2	1.8 U	1 J	11	1.8 U	1.8 U	1.9 U	2.8	1.8 U	5.6
Fluoranthene (8270C)	ug/kg	25 J	--	--	--	--	--	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	--	1.8 U	1.8	1.7 J	0.96 J	7.6	1.8 U	1.8 U	1.9 U	1.4 J	1.8 U	2.8
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	9.8	1.8 U	1.5 J	1.8 U	1.7 U	3.9	1.8 U	1.8 U	1.9 U	1.2 J	1.8 U	1 J
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	1.8 U	1.8 U	1.8 U	1.8 U	1.7 U	1.9 U	1.8 U	1.8 U	1.9 U	1.7 U	1.8 U	2.1 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-5B

	Sample Name	SL-234-SA5B-SS-0.0-0.5	SL-234-SA5B-SB-2.5-3.5	SL-235-SA5B-SS-0.0-0.5	SL-236-SA5B-SS-0.0-0.5	SL-240-SA5B-SS-0.0-0.5	SL-240-SA5B-SB-4.0-5.0	SL-240-SA5B-SB-9.0-10.0	SL-253-SA5B-SS-0.0-0.5	SL-253-SA5B-SB-3.0-4.0	SL-254-SA5B-SS-0.0-0.5	SL-254-SA5B-SB-3.5-4.5	SL-255-SA5B-SS-0.0-0.5
	Sample Date	12/10/2010	01/07/2011	12/10/2010	12/13/2010	12/14/2010	01/10/2011	01/10/2011	02/11/2011	01/21/2011	02/11/2011	01/21/2011	12/20/2010
	Lab SDG	DE035	DE055	DE035	DE036	DE038	DE056	DE056	DE081	DE066	DE081	DE066	DE047
	Start Depth	0	2.5	0	0	0	4	9	0	3	0	3.5	0
	End Depth	0.5	3.5	0.5	0.5	0.5	5	10	0.5	4	0.5	4.5	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Chrysene (8270C)	ug/kg	21 J	--	--	--	--	--	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	--	1.8 U	4.7	13	0.81 J	7.9	1.8 U	1.8 U	1.9 U	2.2	1.8 U	3.2
bis(2-Chloroisopropyl) ether	ug/kg	180 U	180 U	180 U	180 U	170 U	190 U	180 U	180 U	190 U	170 U	180 U	210 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	17	1.8 U	2.6	3.6	1.7 U	7.3	1.8 U	1.8 U	1.9 U	1.4 J	1.8 U	3.4
2,4-Dinitrophenol	ug/kg	2200 U	2200 U	2200 U	2100 U	2100 U	2300 U	2200 U	1100 U	1200 U	1000 U	1100 U	2500 U
4,6-Dinitro-2-Methylphenol	ug/kg	550 U	550 U	540 U	530 U	520 U	570 U	550 U	530 U	580 U	520 U	550 U	620 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	1.4 J	1.8 U	0.99 J	1.7 J	1.7 U	1.2 J	1.8 U	1.8 U	1.9 U	1.7 U	1.8 U	2.1 U
Benzo(a)anthracene (8270C)	ug/kg	21 J	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	--	1.8 U	1.4 J	2.2	1.7 U	6.3	1.8 U	1.8 U	1.9 U	0.81 J	1.8 U	1.6 J
4-Chloro-3-Methylphenol	ug/kg	180 U	180 U	180 U	180 U	170 U	190 U	180 U	180 U	190 U	170 U	180 U	210 U
N-Nitroso-Di-N-Propylamine	ug/kg	180 U	180 U	180 U	180 U	170 U	190 U	180 U	180 U	190 U	170 U	180 U	210 U
Aniline	ug/kg	550 U	550 U	540 U	530 U	520 U	570 U	550 U	530 U	580 U	520 U	550 U	620 U
Benzoic Acid	ug/kg	550 U	550 U	540 U	530 U	520 U	570 U	550 U	530 U	580 U	520 U	550 U	620 U
Hexachloroethane	ug/kg	180 U	180 U	180 U	180 U	170 U	190 U	180 U	180 U	190 U	170 U	180 U	210 U
4-Chlorophenyl Phenylether	ug/kg	180 U	180 U	180 U	180 U	170 U	190 U	180 U	180 U	190 U	170 U	180 U	210 U
Hexachlorocyclopentadiene	ug/kg	550 U	550 U	540 U	530 U	520 U	570 U	550 U	530 U	580 U	520 U	550 U	620 U
Isophorone	ug/kg	180 U	180 U	180 U	180 U	170 U	190 U	180 U	180 U	190 U	170 U	180 U	210 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	1.8 U	1.8 U	1.8 U	1.8 U	1.7 U	1.9 U	1.8 U	1.8 U	1.9 U	1.7 U	1.8 U	2.1 U
Diethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Diethylphthalate (8270C SIM)	ug/kg	20 U	20 U	19 U	19 U	19 U	21 U	20 U	19 U	21 U	19 U	20 U	22 U
Di-n-Butylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	20 U	20 U	19 U	6.4 J	19 U	21 U	20 U	19 U	21 U	19 U	20 U	22 U
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	1.5 J	1.8 U	1.8 U	1.1 J	1.7 U	1.9 U	1.8 U	1.8 U	1.9 U	2	1.8 U	2.8
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	20 U	20 U	19 U	19 U	19 U	21 U	20 U	19 U	21 U	19 U	20 U	22 U
N-Nitrosodiphenylamine	ug/kg	180 U	180 U	180 U	180 U	170 U	190 U	180 U	180 U	190 U	170 U	180 U	210 U
Fluorene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Fluorene (8270C SIM)	ug/kg	1.8 U	1.8 U	1.8 U	1.8 U	1.7 U	1.9 U	1.8 U	1.8 U	1.9 U	1.7 U	1.8 U	2.1 U
Carbazole	ug/kg	180 U	180 U	180 U	180 U	170 U	190 U	180 U	180 U	190 U	170 U	180 U	210 U
Pentachlorophenol	ug/kg	550 U	550 U	540 U	530 U	520 U	570 U	550 U	530 U	580 U	520 U	550 U	620 U
2,4,6-Trichlorophenol	ug/kg	180 U	180 U	180 U	180 U	170 U	190 U	180 U	180 U	190 U	170 U	180 U	210 U
2-Nitroaniline	ug/kg	180 U	180 U	180 U	180 U	170 U	190 U	180 U	180 U	190 U	170 U	180 U	210 U
2-Nitrophenol	ug/kg	180 U	180 U	180 U	180 U	170 U	190 U	180 U	180 U	190 U	170 U	180 U	210 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	1.8 U	1.8 U	1.8 U	1.8 U	1.7 U	1.9 U	1.8 U	1.8 U	1.9 U	0.78 J	1.8 U	1.5 J
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene (8270C SIM)	ug/kg	1.8 U	1.8 U	1 J	1.8 U	1.7 U	1.9 U	1.8 U	1.8 U	1.9 U	0.72 J	1.8 U	1.4 J
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	1.8 U	1.8 U	1.8 U	1.8 U	1.7 U	1.9 U	1.8 U	1.8 U	1.9 U	1.7 U	1.8 U	1.8 J
2-Chloronaphthalene	ug/kg	180 U	180 U	180 U	180 U	170 U	190 U	180 U	180 U	190 U	170 U	180 U	210 U
3,3`-Dichlorobenzidine	ug/kg	360 U	370 U	360 U	350 UJ	350 U	380 U	370 U	350 U	390 U	350 U	370 U	410 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-5B

	Sample Name	SL-234-SA5B-SS-0.0-0.5	SL-234-SA5B-SB-2.5-3.5	SL-235-SA5B-SS-0.0-0.5	SL-236-SA5B-SS-0.0-0.5	SL-240-SA5B-SS-0.0-0.5	SL-240-SA5B-SB-4.0-5.0	SL-240-SA5B-SB-9.0-10.0	SL-253-SA5B-SS-0.0-0.5	SL-253-SA5B-SB-3.0-4.0	SL-254-SA5B-SS-0.0-0.5	SL-254-SA5B-SB-3.5-4.5	SL-255-SA5B-SS-0.0-0.5
	Sample Date	12/10/2010	01/07/2011	12/10/2010	12/13/2010	12/14/2010	01/10/2011	01/10/2011	02/11/2011	01/21/2011	02/11/2011	01/21/2011	12/20/2010
	Lab SDG	DE035	DE055	DE035	DE036	DE038	DE056	DE056	DE081	DE066	DE081	DE066	DE047
	Start Depth	0	2.5	0	0	0	4	9	0	3	0	3.5	0
	End Depth	0.5	3.5	0.5	0.5	0.5	5	10	0.5	4	0.5	4.5	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Benzidine	ug/kg	3600 U	3700 U	3600 U	3500 U	3500 U	3800 U	3700 U	3500 U	3900 UJ	3500 U	3700 U	4100 U
2-Methylphenol	ug/kg	180 U	180 U	180 U	180 U	170 U	190 U	180 U	180 U	190 U	170 U	180 U	210 U
2-Chlorophenol	ug/kg	180 U	180 U	180 U	180 U	170 U	190 U	180 U	180 U	190 U	170 U	180 U	210 U
2,4,5-Trichlorophenol	ug/kg	180 U	180 U	180 U	180 U	170 U	190 U	180 U	180 U	190 U	170 U	180 U	210 U
3-Nitroaniline	ug/kg	180 U	180 U	180 U	180 U	170 U	190 U	180 U	180 U	190 U	170 U	180 U	210 U
Benzyl Alcohol	ug/kg	550 U	550 U	540 U	530 U	520 U	570 U	550 U	530 U	580 U	520 U	550 U	620 U
2,6-Dinitrotoluene	ug/kg	180 U	180 U	180 U	180 U	170 U	190 U	180 U	180 U	190 U	170 U	180 U	210 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-5B

	Sample Name	SL-257-SA5B-SS-0.0-0.5	SL-259-SA5B-SB-4.0-5.0	SL-262-SA5B-SS-0.0-0.5	SL-262-SA5B-SB-4.0-5.0	SL-263-SA5B-SS-0.0-0.5	SL-263-SA5B-SB-2.0-3.0	SL-264-SA5B-SS-0.0-0.5	SL-272-SA5B-SS-0.0-0.5	SL-272-SA5B-SB-4.0-5.0	SL-273-SA5B-SS-0.0-0.5	SL-273-SA5B-SB-2.0-3.0	SL-274-SA5B-SS-0.0-0.5
	Sample Date	12/15/2010	01/04/2011	12/15/2010	01/26/2011	12/15/2010	01/26/2011	12/15/2010	12/17/2010	02/04/2011	12/17/2010	02/04/2011	12/17/2010
	Lab SDG	DE040	DE052	DE041	DE069	DE041	DE069	DE041	DE044	DE076	DE044	DE076	DE044
	Start Depth	0	4	0	4	0	2	0	0	4	0	2	0
	End Depth	0.5	5	0.5	5	0.5	3	0.5	0.5	5	0.5	3	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
N-Nitrosodimethylamine (1625C)	ng/kg	--	--	--	--	--	--	--	--	--	--	--	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	9.3 U	1.8 U	1.8 U	1.9 U	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U	1.8 U	1.9 U	1.8 U
2,4-Dinitrotoluene	ug/kg	190 U	180 U	180 U	190 U	180 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U
Nitrobenzene	ug/kg	190 U	180 U	180 U	190 U	180 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U
1,4-Dichlorobenzene	ug/kg	190 U	180 U	180 U	190 U	180 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U
1,2,4-Trichlorobenzene	ug/kg	190 U	180 U	180 U	190 U	180 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U
1,3-Dichlorobenzene	ug/kg	190 U	180 U	180 U	190 U	180 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U
Hexachlorobutadiene	ug/kg	190 U	180 U	180 U	190 U	180 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U
1,2-Dichlorobenzene	ug/kg	190 U	180 U	180 U	190 U	180 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U
4-Nitroaniline	ug/kg	190 U	180 U	180 U	190 U	180 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U
4-Nitrophenol	ug/kg	560 U	550 U	530 U	570 U	530 U	550 U	540 U	530 U	560 U	530 U	570 U	540 U
4-Bromophenyl Phenyl Ether	ug/kg	190 U	180 U	180 U	190 U	180 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U
2,4-Dimethylphenol	ug/kg	190 U	180 U	180 U	190 U	180 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U
4-Methylphenol	ug/kg	190 U	180 U	180 U	190 U	180 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U
4-Chloroaniline	ug/kg	190 U	180 U	180 U	190 U	180 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U
3,5-Dimethylphenol	ug/kg	190 U	180 U	180 U	190 U	180 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U
Phenol	ug/kg	190 U	180 U	180 U	190 U	180 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U
Bis(2-Chloroethyl) ether	ug/kg	190 U	180 U	180 U	190 U	180 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U
Bis(2-Chloroethoxy) methane	ug/kg	190 U	180 U	180 U	190 U	180 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	40 J	--	--	380 U	150 J	--	--	--	--	--	--	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	--	20 U	13 J	--	--	17 J	11 J	18 J	7.9 J	14 J	10 J	8.8 J
Di-N-Octyl Phthalate (8270C)	ug/kg	190 U	--	--	--	--	--	--	--	--	--	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	--	20 U	19 UJ	21 U	19 U	20 U	12 J	13 J	20 U	13 J	20 U	20 U
Hexachlorobenzene	ug/kg	190 U	180 U	180 U	190 U	180 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	4.1 J	1.8 U	0.51 J	1.9 U	4.5	1.8 U	0.93 J	0.41 J	1.9 U	1.3 J	1.3 J	0.95 J
2,4-Dichlorophenol	ug/kg	190 U	180 U	180 U	190 U	180 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U
1,2-Diphenylhydrazine	ug/kg	190 U	180 U	180 U	190 U	180 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U
Pyrene (8270C)	ug/kg	63 J	--	--	--	65 J	--	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	--	1.8 U	4.5 J	1.9 U	--	1.8 U	7.2	3.9	1.9 U	6.3	5.7	4.3
Dimethylphthalate (8270C)	ug/kg	190 U	--	--	--	--	--	--	--	--	--	--	--
Dimethylphthalate (8270C SIM)	ug/kg	--	20 U	19 U	21 U	19 U	20 U	19 U	19 U	20 U	19 U	20 U	20 U
Dibenzofuran	ug/kg	190 U	180 U	180 U	190 U	180 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U
Benzo(g,h,i)perylene (8270C)	ug/kg	26 J	--	--	--	--	--	--	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	--	1.8 U	4.5 J	1.9 U	15	1.8 U	2.7	0.91 J	1.9 U	6.6	6.6	6
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	12	1.8 U	2.6 J	1.9 U	11	1.8 U	1.7 J	0.83 J	1.9 U	4	4.4	4.1
Benzo(b)fluoranthene (8270C)	ug/kg	37 J	--	--	--	45 J	--	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	--	1.8 U	5.9 J	1.9 U	--	1.8 U	7	2.4	1.9 U	7.7	8.4	5.8
Fluoranthene (8270C)	ug/kg	50 J	--	--	--	--	--	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	--	1.8 U	2.8 J	1.9 U	45	1.8 U	5	5.2	1.9 U	9.3	4.3	4.6
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	15	1.8 U	2.6 J	1.9 U	12	1.8 U	2	1.2 J	1.9 U	2.4	3.9	2.4
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	9.3 U	1.8 U	1.8 U	1.9 U	0.4 J	1.8 U	1.8 U	1.8 U	1.9 U	0.41 J	0.48 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-5B

	Sample Name	SL-257-SA5B-SS-0.0-0.5	SL-259-SA5B-SB-4.0-5.0	SL-262-SA5B-SS-0.0-0.5	SL-262-SA5B-SB-4.0-5.0	SL-263-SA5B-SS-0.0-0.5	SL-263-SA5B-SB-2.0-3.0	SL-264-SA5B-SS-0.0-0.5	SL-272-SA5B-SS-0.0-0.5	SL-272-SA5B-SB-4.0-5.0	SL-273-SA5B-SS-0.0-0.5	SL-273-SA5B-SB-2.0-3.0	SL-274-SA5B-SS-0.0-0.5
	Sample Date	12/15/2010	01/04/2011	12/15/2010	01/26/2011	12/15/2010	01/26/2011	12/15/2010	12/17/2010	02/04/2011	12/17/2010	02/04/2011	12/17/2010
	Lab SDG	DE040	DE052	DE041	DE069	DE041	DE069	DE041	DE044	DE076	DE044	DE076	DE044
	Start Depth	0	4	0	4	0	2	0	0	4	0	2	0
	End Depth	0.5	5	0.5	5	0.5	3	0.5	0.5	5	0.5	3	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Chrysene (8270C)	ug/kg	51 J	--	--	--	49 J	--	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	--	1.8 U	8.7	1.9 U	--	1.8 U	10	2.6	1.9 U	5	5.2	3.2
bis(2-Chloroisopropyl) ether	ug/kg	190 U	180 U	180 U	190 U	180 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U
Benzo(a)pyrene (8270C)	ug/kg	26 J	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	--	1.8 U	5 J	1.9 U	24	1.8 U	5.2	1.2 J	1.9 U	2.9	3.2	2.4
2,4-Dinitrophenol	ug/kg	2200 U	2200 U	2100 U	1100 U	2100 U	1100 U	2100 U	2100 U	1100 U	2100 U	1100 U	2200 U
4,6-Dinitro-2-Methylphenol	ug/kg	560 U	550 U	530 U	570 U	530 U	550 U	540 U	530 U	560 U	530 U	570 U	540 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	11	1.8 U	1.3 J	1.9 U	4.7	1.8 U	1.1 J	1.8 U	1.9 U	1.8 U	1.9 U	1.8 U
Benzo(a)anthracene (8270C)	ug/kg	30 J	--	--	--	28 J	--	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	--	1.8 U	3.9 J	1.9 U	--	1.8 U	5.5	1.2 J	1.9 U	2.4	2.5	1.9
4-Chloro-3-Methylphenol	ug/kg	190 U	180 U	180 U	190 U	180 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U
N-Nitroso-Di-N-Propylamine	ug/kg	190 U	180 U	180 U	190 U	180 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U
Aniline	ug/kg	560 U	550 U	530 U	570 U	530 U	550 U	540 U	530 U	560 U	530 U	570 U	540 U
Benzoic Acid	ug/kg	560 U	550 U	530 U	570 U	530 U	550 U	540 U	530 U	560 U	530 U	570 U	540 U
Hexachloroethane	ug/kg	190 U	180 U	180 U	190 U	180 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U
4-Chlorophenyl Phenylether	ug/kg	190 U	180 U	180 U	190 U	180 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U
Hexachlorocyclopentadiene	ug/kg	560 U	550 U	530 U	570 U	530 U	550 U	540 U	530 U	560 U	530 U	570 U	540 U
Isophorone	ug/kg	190 U	180 U	180 U	190 U	180 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	9.3 U	1.8 U	1.8 U	1.9 U	3	1.8 U	1.8 U	1.8 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	21 U	19 U	20 U	19 U	19 U	20 U	19 U	20 U	20 U
Di-n-Butylphthalate (8270C)	ug/kg	190 U	--	--	--	--	--	--	--	--	--	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	--	20 U	19 U	21 U	56	20 U	19 U	19 U	20 U	19 U	20 U	20 U
Phenanthrene (8270C)	ug/kg	51 J	--	--	--	24 J	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	--	1.8 U	3.4 J	1.9 U	--	1.8 U	9	3.1	1.9 U	5	2.3	2.8
Butylbenzylphthalate (8270C)	ug/kg	190 U	--	--	--	27 J	--	--	--	--	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	--	20 U	19 U	21 U	--	20 U	6.4 J	19 U	20 U	19 U	20 U	20 U
N-Nitrosodiphenylamine	ug/kg	190 U	180 U	180 UJ	190 U	180 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U
Fluorene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Fluorene (8270C SIM)	ug/kg	9.3 U	1.8 U	1.8 U	1.9 U	1.1 J	1.8 U	1.8 U	1.8 U	1.9 U	1.8 U	1.9 U	1.8 U
Carbazole	ug/kg	190 U	180 U	180 U	190 U	180 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U
Pentachlorophenol	ug/kg	560 U	550 U	530 U	570 U	530 U	550 U	540 U	530 U	560 U	530 U	570 U	540 U
2,4,6-Trichlorophenol	ug/kg	190 U	180 U	180 U	190 U	180 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U
2-Nitroaniline	ug/kg	190 U	180 U	180 U	190 U	180 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U
2-Nitrophenol	ug/kg	190 U	180 U	180 U	190 U	180 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	23	1.8 U	1.7 J	1.9 U	2	1.8 U	4.2	1.8 U	1.9 U	1.8 U	1.9 U	1.8 U
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene (8270C SIM)	ug/kg	39	1.8 U	1.5 J	0.87 J	3.4	1.8 U	3.3	0.98 J	1.9 U	1.6 J	0.94 J	0.84 J
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	27	1.8 U	2.2 J	1.9 U	2.8	1.8 U	5.1	1.8 U	1.9 U	1.3 J	0.83 J	1.8 U
2-Chloronaphthalene	ug/kg	190 U	180 U	180 U	190 U	180 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U
3,3`-Dichlorobenzidine	ug/kg	370 U	370 U	350 U	380 U	360 U	370 U	360 U	350 UJ	370 U	360 UJ	380 U	360 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-5B

	Sample Name	SL-257-SA5B-SS-0.0-0.5	SL-259-SA5B-SB-4.0-5.0	SL-262-SA5B-SS-0.0-0.5	SL-262-SA5B-SB-4.0-5.0	SL-263-SA5B-SS-0.0-0.5	SL-263-SA5B-SB-2.0-3.0	SL-264-SA5B-SS-0.0-0.5	SL-272-SA5B-SS-0.0-0.5	SL-272-SA5B-SB-4.0-5.0	SL-273-SA5B-SS-0.0-0.5	SL-273-SA5B-SB-2.0-3.0	SL-274-SA5B-SS-0.0-0.5
	Sample Date	12/15/2010	01/04/2011	12/15/2010	01/26/2011	12/15/2010	01/26/2011	12/15/2010	12/17/2010	02/04/2011	12/17/2010	02/04/2011	12/17/2010
	Lab SDG	DE040	DE052	DE041	DE069	DE041	DE069	DE041	DE044	DE076	DE044	DE076	DE044
	Start Depth	0	4	0	4	0	2	0	0	4	0	2	0
	End Depth	0.5	5	0.5	5	0.5	3	0.5	0.5	5	0.5	3	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Benzidine	ug/kg	3700 U	3700 U	3500 R	3800 U	3600 U	3700 U	3600 U	3500 U	3700 U	3600 U	3800 U	3600 U
2-Methylphenol	ug/kg	190 U	180 U	180 U	190 U	180 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U
2-Chlorophenol	ug/kg	190 U	180 U	180 U	190 U	180 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U
2,4,5-Trichlorophenol	ug/kg	190 U	180 U	180 U	190 U	180 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U
3-Nitroaniline	ug/kg	190 U	180 U	180 U	190 U	180 U	180 U	180 U	180 U	190 U	180 U	190 U	180 U
Benzyl Alcohol	ug/kg	560 U	550 U	530 U	570 U	530 U	550 U	540 U	530 U	560 U	530 U	570 U	540 U
2,6-Dinitrotoluene	ug/kg	190 U	180 U	180 U	190 U	180 U	180 U	180 U	180 U	190 U	180 U	190 U	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-5B

	Sample Name	SL-274-SA5B-SB-4.0-5.0	SL-275-SA5B-SS-0.0-0.5	SL-275-SA5B-SB-3.5-4.5	SL-276-SA5B-SS-0.0-0.5	SL-276-SA5B-SB-4.0-5.0	SL-277-SA5B-SS-0.0-0.5	SL-277-SA5B-SB-2.5-3.5	SL-278-SA5B-SS-0.0-0.5	SL-278-SA5B-SB-2.0-3.0	SL-279-SA5B-SS-0.0-0.5	SL-279-SA5B-SB-2.5-3.5	SL-280-SA5B-SS-0.0-0.5
	Sample Date	02/03/2011	12/17/2010	02/02/2011	12/17/2010	02/01/2011	12/17/2010	02/01/2011	12/17/2010	02/01/2011	12/17/2010	02/01/2011	12/08/2010
	Lab SDG	DE075	DE044	DE085	DE044	DE072	DE044	DE072	DE044	DE072	DE044	DE072	DE031
	Start Depth	4	0	3.5	0	4	0	2.5	0	2	0	2.5	0
	End Depth	5	0.5	4.5	0.5	5	0.5	3.5	0.5	3	0.5	3.5	0.5
Chemical Name	Unit	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	1.7 U	1.8 U	1.8 U	1.9 U	1.7 U	1.8 U	1.8 U	1.8 U	1.8 U
2,4-Dinitrotoluene	ug/kg	190 U	180 U	190 U	170 U	180 U	180 U	190 U	170 U	180 U	180 U	180 U	180 U
Nitrobenzene	ug/kg	190 U	180 U	190 U	170 U	180 U	180 U	190 U	170 U	180 U	180 U	180 U	180 U
1,4-Dichlorobenzene	ug/kg	190 U	180 U	190 U	170 U	180 U	180 U	190 U	170 U	180 U	180 U	180 U	180 U
1,2,4-Trichlorobenzene	ug/kg	190 U	180 U	190 U	170 U	180 U	180 U	190 U	170 U	180 U	180 U	180 U	180 U
1,3-Dichlorobenzene	ug/kg	190 U	180 U	190 U	170 U	180 U	180 U	190 U	170 U	180 U	180 U	180 U	180 U
Hexachlorobutadiene	ug/kg	190 U	180 U	190 U	170 U	180 U	180 U	190 U	170 U	180 U	180 U	180 U	180 U
1,2-Dichlorobenzene	ug/kg	190 U	180 U	190 U	170 U	180 U	180 U	190 U	170 U	180 U	180 U	180 U	180 U
4-Nitroaniline	ug/kg	190 U	180 U	190 U	170 U	180 U	180 U	190 U	170 U	180 U	180 U	180 U	180 U
4-Nitrophenol	ug/kg	560 U	530 U	580 U	520 U	550 U	530 U	560 U	520 U	550 U	540 U	550 U	550 U
4-Bromophenyl Phenyl Ether	ug/kg	190 U	180 U	190 U	170 U	180 U	180 U	190 U	170 U	180 U	180 U	180 U	180 U
2,4-Dimethylphenol	ug/kg	190 U	180 U	190 U	170 U	180 U	180 U	190 U	170 U	180 U	180 U	180 U	180 U
4-Methylphenol	ug/kg	190 U	180 U	190 U	170 U	180 U	180 U	190 U	170 U	180 U	180 U	180 U	180 U
4-Chloroaniline	ug/kg	190 U	180 U	190 U	170 U	180 U	180 U	190 U	170 U	180 U	180 U	180 U	180 U
3,5-Dimethylphenol	ug/kg	190 U	180 U	190 U	170 U	180 U	180 U	190 U	170 U	180 U	180 U	180 U	180 U
Phenol	ug/kg	190 U	180 U	190 U	170 U	180 U	180 U	190 U	170 U	180 U	180 U	180 U	180 U
Bis(2-Chloroethyl) ether	ug/kg	190 U	180 U	190 U	170 U	180 U	180 U	190 U	170 U	180 U	180 U	180 U	180 U
Bis(2-Chloroethoxy) methane	ug/kg	190 U	180 U	190 U	170 U	180 U	180 U	190 U	170 U	180 U	180 U	180 U	180 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	--	--	--	19 J	--	--	--	--	--	--	--	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	17 J	10 J	21 U	--	8.6 J	6.7 J	20 U	15 J	6.8 J	10 J	20 U	9.5 J
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	20 U	13 J	21 U	14 J	20 U	13 J	20 U	13 J	20 U	14 J	20 U	20 U
Hexachlorobenzene	ug/kg	190 U	180 U	190 U	170 U	180 U	180 U	190 U	170 U	180 U	180 U	180 U	180 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	1.9 U	0.44 J	1.9 U	0.48 J	1.8 U	1.8 U	1.9 U	2.4	1.8 U	0.41 J	1.8 U	0.46 J
2,4-Dichlorophenol	ug/kg	190 U	180 U	190 U	170 U	180 U	180 U	190 U	170 U	180 U	180 U	180 U	180 U
1,2-Diphenylhydrazine	ug/kg	190 U	180 U	190 U	170 U	180 U	180 U	190 U	170 U	180 U	180 U	180 U	180 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	75 J	--	--	--	--
Pyrene (8270C SIM)	ug/kg	1.9 U	2.2	1.9 U	4.8	1.8 U	1.9	1.9 U	--	1.8 U	3.8	1.8 U	8.1
Dimethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Dimethylphthalate (8270C SIM)	ug/kg	20 U	19 U	21 U	19 U	20 U	19 U	20 U	19 U	20 U	19 U	20 U	20 U
Dibenzofuran	ug/kg	190 U	180 U	190 U	170 U	180 U	180 U	190 U	170 U	180 U	180 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	1.6 J	1.9 U	3.5	1.8 U	1.5 J	1.9 U	9.3	1.8 U	2.3	1.8 U	3
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	1.9 U	1 J	1.9 U	2.1	1.8 U	1.1 J	1.9 U	9.3	1.8 U	1.6 J	1.8 U	2.8
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	43 J	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	1.9 U	2.6	1.9 U	5.9	1.8 U	3	1.9 U	--	1.8 U	3.5	1.8 U	12
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	74 J	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	1.9 U	2.5	1.9 U	5.4	1.8 U	2.2	1.9 U	--	1.8 U	4.8	1.8 U	8.9
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	19 J	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	1.9 U	0.91 J	1.9 U	1.8	1.8 U	1.3 J	1.9 U	--	1.8 U	1.3 J	1.8 U	4.6
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	1.9 U	1.8 U	1.9 U	1.7 U	1.8 U	1.8 U	1.9 U	1.7 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-5B

	Sample Name	SL-274-SA5B-SB-4.0-5.0	SL-275-SA5B-SS-0.0-0.5	SL-275-SA5B-SB-3.5-4.5	SL-276-SA5B-SS-0.0-0.5	SL-276-SA5B-SB-4.0-5.0	SL-277-SA5B-SS-0.0-0.5	SL-277-SA5B-SB-2.5-3.5	SL-278-SA5B-SS-0.0-0.5	SL-278-SA5B-SB-2.0-3.0	SL-279-SA5B-SS-0.0-0.5	SL-279-SA5B-SB-2.5-3.5	SL-280-SA5B-SS-0.0-0.5
	Sample Date	02/03/2011	12/17/2010	02/02/2011	12/17/2010	02/01/2011	12/17/2010	02/01/2011	12/17/2010	02/01/2011	12/17/2010	02/01/2011	12/08/2010
	Lab SDG	DE075	DE044	DE085	DE044	DE072	DE044	DE072	DE044	DE072	DE044	DE072	DE031
	Start Depth	4	0	3.5	0	4	0	2.5	0	2	0	2.5	0
	End Depth	5	0.5	4.5	0.5	5	0.5	3.5	0.5	3	0.5	3.5	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Chrysene (8270C)	ug/kg	--	--	--	--	--	--	--	38 J	--	--	--	--
Chrysene (8270C SIM)	ug/kg	1.9 U	2	1.9 U	6.1	1.8 U	2.6	1.9 U	--	1.8 U	3.8	1.8 U	8.6
bis(2-Chloroisopropyl) ether	ug/kg	190 U	180 U	190 U	170 U	180 U	180 U	190 U	170 U	180 U	180 U	180 U	180 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	31 J	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	1.9 U	1.3 J	1.9 U	3.1	1.8 U	1.5 J	1.9 U	--	1.8 U	1.5 J	1.8 U	6.8
2,4-Dinitrophenol	ug/kg	1100 U	2100 U	1200 U	2100 U	1100 U	2100 U	1100 U	2100 U	1100 U	2100 U	1100 U	2200 U
4,6-Dinitro-2-Methylphenol	ug/kg	560 U	530 U	580 U	520 U	550 U	530 U	560 U	520 U	550 U	540 U	550 U	550 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	1.9 U	1.8 U	1.9 U	0.77 J	1.8 U	1.8 U	1.9 U	2.8	1.8 U	1.8 U	1.8 U	0.98 J
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	41 J	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	1.9 U	1.2 J	1.9 U	3	1.8 U	1.7 J	1.9 U	--	1.8 U	1.6 J	1.8 U	9.4
4-Chloro-3-Methylphenol	ug/kg	190 U	180 U	190 U	170 U	180 U	180 U	190 U	170 U	180 U	180 U	180 U	180 U
N-Nitroso-Di-N-Propylamine	ug/kg	190 U	180 U	190 U	170 U	180 U	180 U	190 U	170 U	180 U	180 U	180 U	180 U
Aniline	ug/kg	560 U	530 U	580 U	520 U	550 U	530 U	560 U	520 U	550 U	540 U	550 U	550 U
Benzoic Acid	ug/kg	560 U	530 U	580 U	520 U	550 U	530 U	560 U	520 U	550 U	540 U	550 U	550 U
Hexachloroethane	ug/kg	190 U	180 U	190 U	170 U	180 U	180 U	190 U	170 U	180 U	180 U	180 U	180 U
4-Chlorophenyl Phenylether	ug/kg	190 U	180 U	190 U	170 U	180 U	180 U	190 U	170 U	180 U	180 U	180 U	180 U
Hexachlorocyclopentadiene	ug/kg	560 U	530 U	580 U	520 U	550 U	530 U	560 U	520 U	550 U	540 U	550 U	550 U
Isophorone	ug/kg	190 U	180 U	190 U	170 U	180 U	180 U	190 U	170 U	180 U	180 U	180 U	180 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	1.9 U	1.8 U	1.9 U	1.7 U	1.8 U	1.8 U	1.9 U	1.7 U	1.8 U	1.8 U	1.8 U	1.8 U
Diethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Diethylphthalate (8270C SIM)	ug/kg	20 U	19 U	21 U	19 U	20 U	19 U	20 U	19 U	20 U	19 U	20 U	20 U
Di-n-Butylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	20 U	19 U	21 U	19 U	20 U	19 U	20 U	19 U	20 U	19 U	20 U	7.1 J
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	--	45 J	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	1.9 U	1.9	1.9 U	4	1.8 U	0.93 J	1.9 U	--	0.79 J	3.3	1.8 U	0.73 J
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	20 U	19 U	21 U	19 U	20 U	19 U	20 U	19 U	20 U	19 U	20 U	20 U
N-Nitrosodiphenylamine	ug/kg	190 U	180 U	190 U	170 U	180 U	180 U	190 U	170 U	180 U	180 U	180 U	180 U
Fluorene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Fluorene (8270C SIM)	ug/kg	1.9 U	1.8 U	1.9 U	1.7 U	1.8 U	1.8 U	1.9 U	1.7 U	1.8 U	1.8 U	1.8 U	1.8 U
Carbazole	ug/kg	190 U	180 U	190 U	170 U	180 U	180 U	190 U	170 U	180 U	180 U	180 U	180 U
Pentachlorophenol	ug/kg	560 U	530 U	580 U	520 U	550 U	530 U	560 U	520 U	550 U	540 U	550 U	550 U
2,4,6-Trichlorophenol	ug/kg	190 U	180 U	190 U	170 U	180 U	180 U	190 U	170 U	180 U	180 U	180 U	180 U
2-Nitroaniline	ug/kg	190 U	180 U	190 U	170 U	180 U	180 U	190 U	170 U	180 U	180 U	180 U	180 U
2-Nitrophenol	ug/kg	190 U	180 U	190 U	170 U	180 U	180 U	190 U	170 U	180 U	180 U	180 U	180 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	1.9 U	1.8 U	1.9 U	1.6 J	1.8 U	1.8 U	1.9 U	1 J	1.8 U	1.8 U	1.8 U	1.8 U
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene (8270C SIM)	ug/kg	1.9 U	0.81 J	1.9 U	1.6 J	1.8 U	1.8 U	1.9 U	1 J	3.4	0.85 J	1.8 U	1.8 U
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	1.9 U	1.8 U	1.9 U	2.1	1.8 U	1.8 U	1.9 U	1.2 J	0.94 J	0.89 J	1.8 U	1.8 U
2-Chloronaphthalene	ug/kg	190 U	180 U	190 U	170 U	180 U	180 U	190 U	170 U	180 U	180 U	180 U	180 U
3,3`-Dichlorobenzidine	ug/kg	370 U	360 UJ	390 U	350 UJ	360 U	350 UJ	370 U	350 UJ	370 U	360 UJ	370 U	360 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-5B

	Sample Name	SL-274-SA5B-SB-4.0-5.0	SL-275-SA5B-SS-0.0-0.5	SL-275-SA5B-SB-3.5-4.5	SL-276-SA5B-SS-0.0-0.5	SL-276-SA5B-SB-4.0-5.0	SL-277-SA5B-SS-0.0-0.5	SL-277-SA5B-SB-2.5-3.5	SL-278-SA5B-SS-0.0-0.5	SL-278-SA5B-SB-2.0-3.0	SL-279-SA5B-SS-0.0-0.5	SL-279-SA5B-SB-2.5-3.5	SL-280-SA5B-SS-0.0-0.5
	Sample Date	02/03/2011	12/17/2010	02/02/2011	12/17/2010	02/01/2011	12/17/2010	02/01/2011	12/17/2010	02/01/2011	12/17/2010	02/01/2011	12/08/2010
	Lab SDG	DE075	DE044	DE085	DE044	DE072	DE044	DE072	DE044	DE072	DE044	DE072	DE031
	Start Depth	4	0	3.5	0	4	0	2.5	0	2	0	2.5	0
	End Depth	5	0.5	4.5	0.5	5	0.5	3.5	0.5	3	0.5	3.5	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Benzidine	ug/kg	3700 U	3600 U	3900 U	3500 U	3600 U	3500 U	3700 U	3500 U	3700 U	3600 U	3700 U	3600 U
2-Methylphenol	ug/kg	190 U	180 U	190 U	170 U	180 U	180 U	190 U	170 U	180 U	180 U	180 U	180 U
2-Chlorophenol	ug/kg	190 U	180 U	190 U	170 U	180 U	180 U	190 U	170 U	180 U	180 U	180 U	180 U
2,4,5-Trichlorophenol	ug/kg	190 U	180 U	190 U	170 U	180 U	180 U	190 U	170 U	180 U	180 U	180 U	180 U
3-Nitroaniline	ug/kg	190 U	180 U	190 U	170 U	180 U	180 U	190 U	170 U	180 U	180 U	180 U	180 U
Benzyl Alcohol	ug/kg	560 U	530 U	580 U	520 U	550 U	530 U	560 U	520 U	550 U	540 U	550 U	550 U
2,6-Dinitrotoluene	ug/kg	190 U	180 U	190 U	170 U	180 U	180 U	190 U	170 U	180 U	180 U	180 U	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-5B

	Sample Name	SL-280-SA5B-SB-4.0-5.0	SL-280-SA5B-SB-9.0-10.0	SL-281-SA5B-SS-0.0-0.5	SL-281-SA5B-SB-4.0-5.0	SL-281-SA5B-SB-8.0-9.0	SL-282-SA5B-SS-0.0-0.5	SL-282-SA5B-SB-4.0-5.0	SL-282-SA5B-SB-7.0-8.0	SL-283-SA5B-SS-0.0-0.5	SL-283-SA5B-SB-4.0-5.0	SL-283-SA5B-SB-9.0-10.0	SL-284-SA5B-SS-0.0-0.5
	Sample Date	01/18/2011	01/18/2011	12/08/2010	12/17/2010	12/17/2010	12/08/2010	12/17/2010	12/17/2010	12/08/2010	01/18/2011	01/18/2011	12/16/2010
	Lab SDG	DE063	DE063	DE031	DE045	DE045	DE031	DE045	DE045	DE031	DE063	DE063	DE043
	Start Depth	4	9	0	4	8	0	4	7	0	4	9	0
	End Depth	5	10	0.5	5	9	0.5	5	8	0.5	5	10	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
N-Nitrosodimethylamine (1625C)	ng/kg	--	--	--	39.8 U	27.7 J	--	36.5 U	36.5 U	--	--	--	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.9 U	2 U	18 U	2 U	1.9 U	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U	1.9 U	1.9 U
2,4-Dinitrotoluene	ug/kg	190 U	200 U	180 U	200 U	190 U	180 U	180 U	180 U	180 U	190 U	190 U	190 U
Nitrobenzene	ug/kg	190 U	200 U	180 U	200 U	190 U	180 U	180 U	180 U	180 U	190 U	190 U	190 U
1,4-Dichlorobenzene	ug/kg	190 U	200 U	180 U	200 U	190 U	180 U	180 U	180 U	180 U	190 U	190 U	190 U
1,2,4-Trichlorobenzene	ug/kg	190 U	200 U	180 U	200 U	190 U	180 U	180 U	180 U	180 U	190 U	190 U	190 U
1,3-Dichlorobenzene	ug/kg	190 U	200 U	180 U	200 U	190 U	180 U	180 U	180 U	180 U	190 U	190 U	190 U
Hexachlorobutadiene	ug/kg	190 U	200 U	180 U	200 U	190 U	180 U	180 U	180 U	180 U	190 U	190 U	190 U
1,2-Dichlorobenzene	ug/kg	190 U	200 U	180 U	200 U	190 U	180 U	180 U	180 U	180 U	190 U	190 U	190 U
4-Nitroaniline	ug/kg	190 U	200 U	180 U	200 U	190 U	180 U	180 U	180 U	180 U	190 U	190 U	190 U
4-Nitrophenol	ug/kg	560 U	590 U	550 U	600 U	570 U	540 U	550 U	550 U	550 U	560 U	570 U	570 U
4-Bromophenyl Phenyl Ether	ug/kg	190 U	200 U	180 U	200 U	190 U	180 U	180 U	180 U	180 U	190 U	190 U	190 U
2,4-Dimethylphenol	ug/kg	190 U	200 U	180 U	200 U	190 U	180 U	180 U	180 U	180 U	190 U	190 U	190 U
4-Methylphenol	ug/kg	190 U	200 U	180 U	200 U	190 U	180 U	180 U	180 U	180 U	190 U	190 U	190 U
4-Chloroaniline	ug/kg	190 U	200 U	180 U	200 U	190 U	180 U	180 U	180 U	180 U	190 U	190 U	190 U
3,5-Dimethylphenol	ug/kg	190 U	200 U	180 U	200 U	190 U	180 U	180 U	180 U	180 U	190 U	190 U	190 U
Phenol	ug/kg	190 U	200 U	180 U	200 U	190 U	180 U	180 U	180 U	180 U	190 U	190 U	190 U
Bis(2-Chloroethyl) ether	ug/kg	190 U	200 U	180 U	200 U	190 U	180 U	180 U	180 U	180 U	190 U	190 U	190 U
Bis(2-Chloroethoxy) methane	ug/kg	190 U	200 U	180 U	200 U	190 U	180 U	180 U	180 U	180 U	190 U	190 U	190 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	--	--	370 U	--	--	--	--	--	--	--	--	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	20 UJ	21 UJ	--	12 J	30	7.6 J	7.2 J	7.6 J	9 J	20 UJ	20 UJ	34
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	180 U	--	--	--	--	--	--	--	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	20 U	21 U	--	22 U	21 U	19 U	20 U	14 J	20 U	20 U	20 U	16 J
Hexachlorobenzene	ug/kg	190 U	200 U	180 U	200 U	190 U	180 U	180 U	180 U	180 U	190 U	190 U	190 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	1.9 U	2 U	18 U	2 U	1.9 U	1.8 U	1.1 J	1.8 U	1.8 U	1.9 U	1.9 U	9.2
2,4-Dichlorophenol	ug/kg	190 U	200 U	180 U	200 U	190 U	180 U	180 U	180 U	180 U	190 U	190 U	190 U
1,2-Diphenylhydrazine	ug/kg	190 U	200 U	180 U	200 U	190 U	180 U	180 U	180 U	180 U	190 U	190 U	190 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	27 J	--	--
Pyrene (8270C SIM)	ug/kg	1.9 U	2 U	8.5 J	2 U	1.9 U	1.8 U	8	1.8 U	1.4 J	--	1.9 U	56
Dimethylphthalate (8270C)	ug/kg	--	--	180 U	--	--	--	--	--	--	--	--	--
Dimethylphthalate (8270C SIM)	ug/kg	20 U	21 U	--	22 U	21 U	19 U	20 U	20 U	20 U	20 U	20 U	20 U
Dibenzofuran	ug/kg	190 U	200 U	180 U	200 U	190 U	180 U	180 U	180 U	180 U	190 U	190 U	190 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	220
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	1.9 U	2 U	18 U	2 U	1.9 U	1.8 U	1.8 U	1.8 U	1.8 U	0.82 J	1.9 U	--
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	200
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	1.9 U	2 U	18 U	2 U	1.9 U	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U	1.9 U	--
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	0.84 J	2 U	18 U	2 U	1.9 U	0.83 J	3.6	1.8 U	2.1	2.3	1.3 J	180
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	21 J	--	--
Fluoranthene (8270C SIM)	ug/kg	1.9 U	2 U	11 J	2 U	1.9 U	1.8 U	8.2	1.8 U	1.3 J	--	1.9 U	76
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	20 J
Benzo(k)fluoranthene (8270C SIM)	ug/kg	1.9 U	2 U	18 U	2 U	1.9 U	1.8 U	1.4 J	1.8 U	0.99 J	1.9 U	1.9 U	--
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	1.9 U	2 U	18 U	2 U	1.9 U	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U	1.9 U	2.8

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-5B

	Sample Name	SL-280-SA5B-SB-4.0-5.0	SL-280-SA5B-SB-9.0-10.0	SL-281-SA5B-SS-0.0-0.5	SL-281-SA5B-SB-4.0-5.0	SL-281-SA5B-SB-8.0-9.0	SL-282-SA5B-SS-0.0-0.5	SL-282-SA5B-SB-4.0-5.0	SL-282-SA5B-SB-7.0-8.0	SL-283-SA5B-SS-0.0-0.5	SL-283-SA5B-SB-4.0-5.0	SL-283-SA5B-SB-9.0-10.0	SL-284-SA5B-SS-0.0-0.5
	Sample Date	01/18/2011	01/18/2011	12/08/2010	12/17/2010	12/17/2010	12/08/2010	12/17/2010	12/17/2010	12/08/2010	01/18/2011	01/18/2011	12/16/2010
	Lab SDG	DE063	DE063	DE031	DE045	DE045	DE031	DE045	DE045	DE031	DE063	DE063	DE043
	Start Depth	4	9	0	4	8	0	4	7	0	4	9	0
	End Depth	5	10	0.5	5	9	0.5	5	8	0.5	5	10	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Chrysene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	1.9 U	2 U	5.4 J	2 U	1.9 U	0.76 J	3.6	1.8 U	1.1 J	0.59 J	0.44 J	50
bis(2-Chloroisopropyl) ether	ug/kg	190 U	200 U	180 U	200 U	190 U	180 U	180 U	180 U	180 U	190 U	190 U	190 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	1.9 U	2 U	18 U	2 U	1.9 U	1.8 U	2.1	1.8 U	1.1 J	1.9 U	1.9 U	74
2,4-Dinitrophenol	ug/kg	1100 U	1200 U	2200 U	2400 U	2300 U	2200 U	2200 U	2200 U	2200 U	1100 U	1100 U	2300 U
4,6-Dinitro-2-Methylphenol	ug/kg	560 U	590 U	550 U	600 U	570 U	540 U	550 U	550 U	550 U	560 U	570 U	570 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	1.9 U	2 U	18 U	2 U	1.9 U	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U	1.9 U	12
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	1.9 U	2 U	18 U	2 U	1.9 U	1.8 U	3.7	1.8 U	0.75 J	1.9 U	1.9 U	28
4-Chloro-3-Methylphenol	ug/kg	190 U	200 U	180 U	200 U	190 U	180 U	180 U	180 U	180 U	190 U	190 U	190 U
N-Nitroso-Di-N-Propylamine	ug/kg	190 U	200 U	180 U	200 U	190 U	180 U	180 U	180 U	180 U	190 U	190 U	190 U
Aniline	ug/kg	560 U	590 U	550 U	600 U	570 U	540 U	550 U	550 U	550 U	560 U	570 U	570 U
Benzoic Acid	ug/kg	560 U	590 U	550 U	600 U	570 U	540 U	550 U	550 U	550 U	560 U	570 U	570 U
Hexachloroethane	ug/kg	190 U	200 U	180 U	200 U	190 U	180 U	180 U	180 U	180 U	190 U	190 U	190 U
4-Chlorophenyl Phenylether	ug/kg	190 U	200 U	180 U	200 U	190 U	180 U	180 U	180 U	180 U	190 U	190 U	190 U
Hexachlorocyclopentadiene	ug/kg	560 U	590 U	550 U	600 U	570 U	540 U	550 U	550 U	550 U	560 U	570 U	570 U
Isophorone	ug/kg	190 U	200 U	180 U	200 U	190 U	180 U	180 U	180 U	180 U	190 U	190 U	190 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	1.9 U	2 U	18 U	2 U	1.9 U	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U	1.9 U	1.9 U
Diethylphthalate (8270C)	ug/kg	--	--	180 U	--	--	--	--	--	--	--	--	--
Diethylphthalate (8270C SIM)	ug/kg	20 U	21 U	--	22 U	21 U	19 U	20 U	20 U	20 U	20 U	20 U	20 U
Di-n-Butylphthalate (8270C)	ug/kg	--	--	180 U	--	--	--	--	--	--	--	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	20 U	21 U	--	8.1 J	21 U	19 U	20 U	20 U	6.7 J	12 J	20 U	20 U
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	1.9 U	2 U	8.7 J	2 U	1.9 U	1.8 U	2.7	1.8 U	0.75 J	1.9 U	1.9 U	46
Butylbenzylphthalate (8270C)	ug/kg	--	--	180 U	--	--	--	--	--	--	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	20 U	21 U	--	22 U	21 U	19 U	20 U	20 U	20 U	20 U	20 U	13 J
N-Nitrosodiphenylamine	ug/kg	190 U	200 U	180 U	200 U	190 U	180 U	180 U	180 U	180 U	190 U	190 U	190 U
Fluorene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Fluorene (8270C SIM)	ug/kg	1.9 U	2 U	18 U	2 U	1.9 U	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U	1.9 U	1.4 J
Carbazole	ug/kg	190 U	200 U	180 U	200 U	190 U	180 U	180 U	180 U	180 U	190 U	190 U	190 U
Pentachlorophenol	ug/kg	560 U	590 U	550 U	600 U	570 U	540 U	550 U	550 U	550 U	560 U	570 U	570 U
2,4,6-Trichlorophenol	ug/kg	190 U	200 U	180 U	200 U	190 U	180 U	180 U	180 U	180 U	190 U	190 U	190 U
2-Nitroaniline	ug/kg	190 U	200 U	180 U	200 U	190 U	180 U	180 U	180 U	180 U	190 U	190 U	190 U
2-Nitrophenol	ug/kg	190 U	200 U	180 U	200 U	190 U	180 U	180 U	180 U	180 U	190 U	190 U	190 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	1.9 U	2 U	18 U	2 U	1.9 U	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U	1.9 U	7
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene (8270C SIM)	ug/kg	1.9 U	2 U	18 U	0.84 J	1.9 U	0.86 J	1.8 U	1.8 U	1.8 U	1.9 U	1.9 U	8.9
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	1.9 U	2 U	18 U	2 U	1.9 U	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U	1.9 U	8.3
2-Chloronaphthalene	ug/kg	190 U	200 U	180 U	200 U	190 U	180 U	180 U	180 U	180 U	190 U	190 U	190 U
3,3`-Dichlorobenzidine	ug/kg	370 UJ	390 UJ	370 UJ	400 U	380 U	360 UJ	360 U	370 U	360 UJ	380 UJ	380 UJ	380 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-5B

	Sample Name	SL-280-SA5B-SB-4.0-5.0	SL-280-SA5B-SB-9.0-10.0	SL-281-SA5B-SS-0.0-0.5	SL-281-SA5B-SB-4.0-5.0	SL-281-SA5B-SB-8.0-9.0	SL-282-SA5B-SS-0.0-0.5	SL-282-SA5B-SB-4.0-5.0	SL-282-SA5B-SB-7.0-8.0	SL-283-SA5B-SS-0.0-0.5	SL-283-SA5B-SB-4.0-5.0	SL-283-SA5B-SB-9.0-10.0	SL-284-SA5B-SS-0.0-0.5
	Sample Date	01/18/2011	01/18/2011	12/08/2010	12/17/2010	12/17/2010	12/08/2010	12/17/2010	12/17/2010	12/08/2010	01/18/2011	01/18/2011	12/16/2010
	Lab SDG	DE063	DE063	DE031	DE045	DE045	DE031	DE045	DE045	DE031	DE063	DE063	DE043
	Start Depth	4	9	0	4	8	0	4	7	0	4	9	0
	End Depth	5	10	0.5	5	9	0.5	5	8	0.5	5	10	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Benzidine	ug/kg	3700 U	3900 U	3700 U	4000 U	3800 U	3600 U	3600 U	3700 U	3600 U	3800 U	3800 U	3800 U
2-Methylphenol	ug/kg	190 U	200 U	180 U	200 U	190 U	180 U	180 U	180 U	180 U	190 U	190 U	190 U
2-Chlorophenol	ug/kg	190 U	200 U	180 U	200 U	190 U	180 U	180 U	180 U	180 U	190 U	190 U	190 U
2,4,5-Trichlorophenol	ug/kg	190 U	200 U	180 U	200 U	190 U	180 U	180 U	180 U	180 U	190 U	190 U	190 U
3-Nitroaniline	ug/kg	190 U	200 U	180 U	200 U	190 U	180 U	180 U	180 U	180 U	190 U	190 U	190 U
Benzyl Alcohol	ug/kg	560 U	590 U	550 U	600 U	570 U	540 U	550 U	550 U	550 U	560 U	570 U	570 U
2,6-Dinitrotoluene	ug/kg	190 U	200 U	180 U	200 U	190 U	180 U	180 U	180 U	180 U	190 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-5B

	Sample Name	SL-285-SA5B-SS-0.0-0.5	SL-286-SA5B-SS-0.0-0.5	SL-287-SA5B-SS-0.0-0.5	SL-287-SA5B-SB-4.0-5.0	SL-287-SA5B-SB-9.0-10.0	SL-288-SA5B-SS-0.0-0.5	SL-289-SA5B-SS-0.0-0.5	SL-290-SA5B-SS-0.0-0.5	SL-291-SA5B-SS-0.0-0.5	SL-292-SA5B-SS-0.0-0.5	SL-293-SA5B-SS-0.0-0.5	SL-294-SA5B-SS-0.0-0.5
	Sample Date	12/16/2010	12/16/2010	12/10/2010	01/19/2011	01/19/2011	12/10/2010	02/11/2011	12/10/2010	12/09/2010	12/09/2010	12/09/2010	12/08/2010
	Lab SDG	DE043	DE043	DE035	DE064	DE064	DE035	DE081	DE035	DE032	DE031	DE031	DE032
	Start Depth	0	0	0	4	9	0	0	0	0	0	0	0
	End Depth	0.5	0.5	0.5	5	10	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
N-Nitrosodimethylamine (1625C)	ng/kg	--	--	--	--	--	--	--	--	--	--	--	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	9.1 U	9.8 U	1.8 U	1.9 U	1.7 U	1.7 U	1.8 U	18 U	1.8 U	1.8 U	19 U	1.8 U
2,4-Dinitrotoluene	ug/kg	180 U	200 U	180 U	190 U	170 U	170 U	170 U	180 U	180 U	180 U	190 U	180 U
Nitrobenzene	ug/kg	180 U	200 U	180 U	190 U	170 U	170 U	170 U	180 U	180 U	180 U	190 U	180 U
1,4-Dichlorobenzene	ug/kg	180 U	200 U	180 U	190 U	170 U	170 U	170 U	180 U	180 U	180 U	190 U	180 U
1,2,4-Trichlorobenzene	ug/kg	180 U	200 U	180 U	190 U	170 U	170 U	170 U	180 U	180 U	180 U	190 U	180 U
1,3-Dichlorobenzene	ug/kg	180 U	200 U	180 U	190 U	170 U	170 U	170 U	180 U	180 U	180 U	190 U	180 U
Hexachlorobutadiene	ug/kg	180 U	200 U	180 U	190 U	170 U	170 U	170 U	180 U	180 U	180 U	190 U	180 U
1,2-Dichlorobenzene	ug/kg	180 U	200 U	180 U	190 U	170 U	170 U	170 U	180 U	180 U	180 U	190 U	180 U
4-Nitroaniline	ug/kg	180 U	200 U	180 U	190 U	170 U	170 U	170 U	180 U	180 U	180 U	190 U	180 U
4-Nitrophenol	ug/kg	550 U	590 U	540 U	560 U	520 U	520 U	520 U	540 U	530 U	530 U	560 U	540 U
4-Bromophenyl Phenyl Ether	ug/kg	180 U	200 U	180 U	190 U	170 U	170 U	170 U	180 U	180 U	180 U	190 U	180 U
2,4-Dimethylphenol	ug/kg	180 U	200 U	180 U	190 U	170 U	170 U	170 U	180 U	180 U	180 U	190 U	180 U
4-Methylphenol	ug/kg	180 U	200 U	180 U	190 U	170 U	170 U	170 U	180 U	180 U	180 U	190 U	180 U
4-Chloroaniline	ug/kg	180 U	200 U	180 U	190 U	170 U	170 U	170 U	180 U	180 U	180 U	190 U	180 U
3,5-Dimethylphenol	ug/kg	180 U	200 U	180 U	190 U	170 U	170 U	170 U	180 U	180 U	180 U	190 U	180 U
Phenol	ug/kg	180 U	200 U	180 U	190 U	170 U	170 U	170 U	180 U	180 U	180 U	190 U	180 U
Bis(2-Chloroethyl) ether	ug/kg	180 U	200 U	180 U	190 U	170 U	170 U	170 U	180 U	180 U	180 U	190 U	180 U
Bis(2-Chloroethoxy) methane	ug/kg	180 U	200 U	180 U	190 U	170 U	170 U	170 U	180 U	180 U	180 U	190 U	180 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	--	190 J	19 J	--	44 J	350 UJ	24 J	29 J	--	--	370 U	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	120	--	--	20 U	--	--	--	--	19 U	15 J	--	20 U
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	--	--	--	--	--	180 U	--	--	190 U	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	98 U	110 U	19 U	20 U	19 U	19 U	19 U	--	8.5 J	19 U	--	20 U
Hexachlorobenzene	ug/kg	180 U	200 U	180 U	190 U	170 U	170 U	170 U	180 U	180 U	180 U	190 U	180 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	3.6 J	4.8 J	0.62 J	1.9 U	1.7 U	0.84 J	1.8 U	18 U	1.1 J	1.8 U	19 U	1.8 U
2,4-Dichlorophenol	ug/kg	180 U	200 U	180 U	190 U	170 U	170 U	170 U	180 U	180 U	180 U	190 U	180 U
1,2-Diphenylhydrazine	ug/kg	180 U	200 U	180 U	190 U	170 U	170 U	170 U	180 U	180 U	180 U	190 U	180 U
Pyrene (8270C)	ug/kg	--	92 J	--	--	--	--	--	--	57 J	--	--	--
Pyrene (8270C SIM)	ug/kg	32	--	2.9	1.9 U	1.7 U	2.2 J	1.6 J	18 U	--	1.6 J	8.3 J	6.1
Dimethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	180 U	--	--	190 U	--
Dimethylphthalate (8270C SIM)	ug/kg	98 U	110 U	19 U	20 U	19 U	19 U	19 U	--	19 U	19 U	--	20 U
Dibenzofuran	ug/kg	180 U	200 U	180 U	190 U	170 U	170 U	170 U	180 U	180 U	180 U	190 U	180 U
Benzo(g,h,i)perylene (8270C)	ug/kg	22 J	49 J	--	--	--	--	--	--	50 J	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	--	--	1.8 U	1.9 U	1.7 U	1.1 J	1.8 U	39	--	2.4	13 J	2
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	25 J	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	9.8	12	1.8 U	1.9 U	1.7 U	0.99 J	1.8 U	18 U	--	0.9 J	19 U	1.8
Benzo(b)fluoranthene (8270C)	ug/kg	--	59 J	--	--	--	--	--	--	57 J	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	33	--	2.8	1.9 U	1.5 J	4.1 J	1.6 J	24	--	2.9	21	9.1
Fluoranthene (8270C)	ug/kg	--	83 J	--	--	--	--	--	--	53 J	--	--	--
Fluoranthene (8270C SIM)	ug/kg	34	--	3.7	1.9 U	1.7 U	2.8 J	1.7 J	18 U	--	2.1	19 U	7.3
Benzo(k)fluoranthene (8270C)	ug/kg	--	23 J	--	--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	13	--	0.83 J	1.9 U	1.7 U	1.6 J	1.8 U	19	9.9	0.85 J	38	3.5
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	9.1 U	9.8 U	1.8 U	1.9 U	1.7 U	1.7 U	1.8 U	18 U	1.8 U	1.8 U	19 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-5B

	Sample Name	SL-285-SA5B-SS-0.0-0.5	SL-286-SA5B-SS-0.0-0.5	SL-287-SA5B-SS-0.0-0.5	SL-287-SA5B-SB-4.0-5.0	SL-287-SA5B-SB-9.0-10.0	SL-288-SA5B-SS-0.0-0.5	SL-289-SA5B-SS-0.0-0.5	SL-290-SA5B-SS-0.0-0.5	SL-291-SA5B-SS-0.0-0.5	SL-292-SA5B-SS-0.0-0.5	SL-293-SA5B-SS-0.0-0.5	SL-294-SA5B-SS-0.0-0.5
	Sample Date	12/16/2010	12/16/2010	12/10/2010	01/19/2011	01/19/2011	12/10/2010	02/11/2011	12/10/2010	12/09/2010	12/09/2010	12/09/2010	12/08/2010
	Lab SDG	DE043	DE043	DE035	DE064	DE064	DE035	DE081	DE035	DE032	DE031	DE031	DE032
	Start Depth	0	0	0	4	9	0	0	0	0	0	0	0
	End Depth	0.5	0.5	0.5	5	10	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
Chrysene (8270C)	ug/kg	--	53 J	--	--	--	--	--	--	89 J	--	--	--
Chrysene (8270C SIM)	ug/kg	29	--	1.9	1.9 U	1.7 U	2.6 J	1.4 J	15 J	--	1.9	19	6.6
bis(2-Chloroisopropyl) ether	ug/kg	180 U	200 U	180 U	190 U	170 U	170 U	170 U	180 U	180 U	180 U	190 U	180 U
Benzo(a)pyrene (8270C)	ug/kg	--	31 J	--	--	--	--	--	--	100 J	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	17	--	1.1 J	1.9 U	1.7 U	1.5 J	0.72 J	9.1 J	--	1.5 J	26	5.9
2,4-Dinitrophenol	ug/kg	2200 U	2300 U	2200 U	1100 U	1000 U	2100 U	1000 U	2100 U	2100 U	2100 U	2200 U	2200 U
4,6-Dinitro-2-Methylphenol	ug/kg	550 U	590 U	540 U	560 U	520 U	520 U	520 U	540 U	530 U	530 U	560 U	540 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	4.1 J	4.2 J	1.8 U	1.9 U	1.7 U	1.7 U	1.8 U	18 U	1.4 J	1.8 U	19 U	1.8 U
Benzo(a)anthracene (8270C)	ug/kg	--	43 J	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	16	--	0.97 J	1.9 U	1.7 U	1 J	1.8 U	18 U	4.8	1 J	19 U	7.2
4-Chloro-3-Methylphenol	ug/kg	180 U	200 U	180 U	190 U	170 U	170 U	170 U	180 U	180 U	180 U	190 U	180 U
N-Nitroso-Di-N-Propylamine	ug/kg	180 U	200 U	180 U	190 U	170 U	170 U	170 U	180 U	180 U	180 U	190 U	180 U
Aniline	ug/kg	550 U	590 U	540 U	560 U	520 U	520 U	520 U	540 U	530 U	530 U	560 U	540 U
Benzoic Acid	ug/kg	550 U	590 U	540 U	560 U	520 U	520 U	520 U	540 U	530 U	530 U	560 U	540 U
Hexachloroethane	ug/kg	180 U	200 U	180 U	190 U	170 U	170 U	170 U	180 U	180 U	180 U	190 U	180 U
4-Chlorophenyl Phenylether	ug/kg	180 U	200 U	180 U	190 U	170 U	170 U	170 U	180 U	180 U	180 U	190 U	180 U
Hexachlorocyclopentadiene	ug/kg	550 U	590 U	540 U	560 U	520 U	520 U	520 U	540 U	530 U	530 U	560 U	540 U
Isophorone	ug/kg	180 U	200 U	180 U	190 U	170 U	170 U	170 U	180 U	180 U	180 U	190 U	180 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	9.1 U	9.8 U	1.8 U	1.9 U	1.7 U	1.7 U	1.8 U	18 U	1.8 U	1.8 U	19 U	1.8 U
Diethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	180 U	--	--	190 U	--
Diethylphthalate (8270C SIM)	ug/kg	98 U	110 U	19 U	20 U	19 U	19 U	19 U	--	19 U	19 U	--	20 U
Di-n-Butylphthalate (8270C)	ug/kg	--	--	--	--	--	170 U	--	180 U	--	--	190 U	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	59 J	50 J	19 U	20 U	19 U	--	19 U	--	12 J	7 J	--	6.7 J
Phenanthrene (8270C)	ug/kg	--	57 J	--	--	--	--	--	--	29 J	--	--	--
Phenanthrene (8270C SIM)	ug/kg	23	--	1.7 J	1.9 U	1.7 U	1.6 J	1.8 U	18 U	--	0.72 J	19 U	1.8 U
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	180 U	--	--	190 U	--
Butylbenzylphthalate (8270C SIM)	ug/kg	34 J	110 U	19 U	20 U	19 U	19 U	19 U	--	6.7 J	19 U	--	20 U
N-Nitrosodiphenylamine	ug/kg	180 U	200 U	180 U	190 U	170 U	170 U	170 U	180 U	180 U	180 U	190 U	180 U
Fluorene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Fluorene (8270C SIM)	ug/kg	9.1 U	9.8 U	1.8 U	1.9 U	1.7 U	1.7 U	1.8 U	18 U	1.8 U	1.8 U	19 U	1.8 U
Carbazole	ug/kg	180 U	200 U	180 U	190 U	170 U	170 U	170 U	180 U	180 U	180 U	190 U	180 U
Pentachlorophenol	ug/kg	550 U	590 U	540 U	560 U	520 U	520 U	520 U	540 U	530 U	530 U	560 U	540 U
2,4,6-Trichlorophenol	ug/kg	180 U	200 U	180 U	190 U	170 U	170 U	170 U	180 U	180 U	180 U	190 U	180 U
2-Nitroaniline	ug/kg	180 U	200 U	180 U	190 U	170 U	170 U	170 U	180 U	180 U	180 U	190 U	180 U
2-Nitrophenol	ug/kg	180 U	200 U	180 U	190 U	170 U	170 U	170 U	180 U	180 U	180 U	190 U	180 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	5.4 J	5.6 J	1.8 U	1.9 U	1.7 U	1.7 U	1.8 U	18 U	1.8 U	1.8 U	19 U	1.8 U
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene (8270C SIM)	ug/kg	5.1 J	4.3 J	1.8 U	1.9 U	1.7 U	1.7 UJ	1.8 U	18 U	1.8 U	1.8 U	19 U	1.8 U
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	6.7 J	6.1 J	1.8 U	1.9 U	1.7 U	1.7 U	1.8 U	18 U	1.8 U	1.8 U	19 U	1.8 U
2-Chloronaphthalene	ug/kg	180 U	200 U	180 U	190 U	170 U	170 U	170 U	180 U	180 U	180 U	190 U	180 U
3,3`-Dichlorobenzidine	ug/kg	360 U	390 U	360 U	370 U	350 U	350 U	350 U	360 U	350 U	360 UJ	370 UJ	360 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-5B

	Sample Name	SL-285-SA5B-SS-0.0-0.5	SL-286-SA5B-SS-0.0-0.5	SL-287-SA5B-SS-0.0-0.5	SL-287-SA5B-SB-4.0-5.0	SL-287-SA5B-SB-9.0-10.0	SL-288-SA5B-SS-0.0-0.5	SL-289-SA5B-SS-0.0-0.5	SL-290-SA5B-SS-0.0-0.5	SL-291-SA5B-SS-0.0-0.5	SL-292-SA5B-SS-0.0-0.5	SL-293-SA5B-SS-0.0-0.5	SL-294-SA5B-SS-0.0-0.5
	Sample Date	12/16/2010	12/16/2010	12/10/2010	01/19/2011	01/19/2011	12/10/2010	02/11/2011	12/10/2010	12/09/2010	12/09/2010	12/09/2010	12/08/2010
	Lab SDG	DE043	DE043	DE035	DE064	DE064	DE035	DE081	DE035	DE032	DE031	DE031	DE032
	Start Depth	0	0	0	4	9	0	0	0	0	0	0	0
	End Depth	0.5	0.5	0.5	5	10	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
Benzidine	ug/kg	3600 U	3900 U	3600 U	3700 U	3500 U	3500 U	3500 U	3600 U	3500 U	3600 U	3700 U	3600 U
2-Methylphenol	ug/kg	180 U	200 U	180 U	190 U	170 U	170 U	170 U	180 U	180 U	180 U	190 U	180 U
2-Chlorophenol	ug/kg	180 U	200 U	180 U	190 U	170 U	170 U	170 U	180 U	180 U	180 U	190 U	180 U
2,4,5-Trichlorophenol	ug/kg	180 U	200 U	180 U	190 U	170 U	170 U	170 U	180 U	180 U	180 U	190 U	180 U
3-Nitroaniline	ug/kg	180 U	200 U	180 U	190 U	170 U	170 U	170 U	180 U	180 U	180 U	190 U	180 U
Benzyl Alcohol	ug/kg	550 U	590 U	540 U	560 U	520 U	520 U	520 U	540 U	530 U	530 U	560 U	540 U
2,6-Dinitrotoluene	ug/kg	180 U	200 U	180 U	190 U	170 U	170 U	170 U	180 U	180 U	180 U	190 U	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-5B

	Sample Name	SL-294-SA5B-SB-4.0-5.0	SL-294-SA5B-SB-9.0-10.0	SL-295-SA5B-SS-0.0-0.5	SL-295-SA5B-SB-4.0-5.0	SL-295-SA5B-SB-9.0-10.0	SL-296-SA5B-SS-0.0-0.5	SL-296-SA5B-SB-4.0-5.0	SL-296-SA5B-SB-9.0-10.0	SL-297-SA5B-SS-0.0-0.5	SL-297-SA5B-SB-4.0-5.0	SL-297-SA5B-SB-7.0-8.0	SL-298-SA5B-SS-0.0-0.5
	Sample Date	01/20/2011	01/20/2011	12/08/2010	01/18/2011	01/18/2011	12/08/2010	01/18/2011	01/18/2011	12/08/2010	12/15/2010	12/15/2010	01/05/2011
	Lab SDG	DE065	DE065	DE031	DE063	DE063	DE031	DE063	DE063	DE031	DE041	DE041	DE053
	Start Depth	4	9	0	4	9	0	4	9	0	4	7	0
	End Depth	5	10	0.5	5	10	0.5	5	10	0.5	5	8	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
N-Nitrosodimethylamine (1625C)	ng/kg	73.2	84.2	--	--	--	--	--	--	--	69.4	114	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.9 U	1.9 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 U	9.1 U
2,4-Dinitrotoluene	ug/kg	190 U	190 U	180 U	190 U	190 U	180 U	180 U	180 U	190 U	190 U	200 U	180 U
Nitrobenzene	ug/kg	190 U	190 U	180 U	190 U	190 U	180 U	180 U	180 U	190 U	190 U	200 U	180 U
1,4-Dichlorobenzene	ug/kg	190 U	190 U	180 U	190 U	190 U	180 U	180 U	180 U	190 U	190 U	200 U	180 U
1,2,4-Trichlorobenzene	ug/kg	190 U	190 U	180 U	190 U	190 U	180 U	180 U	180 U	190 U	190 U	200 U	180 U
1,3-Dichlorobenzene	ug/kg	190 U	190 U	180 U	190 U	190 U	180 U	180 U	180 U	190 U	190 U	200 U	180 U
Hexachlorobutadiene	ug/kg	190 U	190 U	180 U	190 U	190 U	180 U	180 U	180 U	190 U	190 U	200 U	180 U
1,2-Dichlorobenzene	ug/kg	190 U	190 U	180 U	190 U	190 U	180 U	180 U	180 U	190 U	190 U	200 U	180 U
4-Nitroaniline	ug/kg	190 U	190 U	180 U	190 U	190 U	180 U	180 U	180 U	190 U	190 U	200 U	180 U
4-Nitrophenol	ug/kg	560 U	560 U	550 U	570 U	580 U	540 U	550 U	550 U	560 U	580 U	600 U	540 U
4-Bromophenyl Phenyl Ether	ug/kg	190 U	190 U	180 U	190 U	190 U	180 U	180 U	180 U	190 U	190 U	200 U	180 U
2,4-Dimethylphenol	ug/kg	190 U	190 U	180 U	190 U	190 U	180 U	180 U	180 U	190 U	190 U	200 U	180 U
4-Methylphenol	ug/kg	190 U	190 U	180 U	190 U	190 U	180 U	180 U	180 U	190 U	190 U	200 U	180 U
4-Chloroaniline	ug/kg	190 U	190 U	180 U	190 U	190 U	180 U	180 U	180 U	190 U	190 U	200 U	180 U
3,5-Dimethylphenol	ug/kg	190 U	190 U	180 U	190 U	190 U	180 U	180 U	180 U	190 U	190 U	200 U	180 U
Phenol	ug/kg	190 U	190 U	180 U	190 U	190 U	180 U	180 U	180 U	190 U	190 U	200 U	180 U
Bis(2-Chloroethyl) ether	ug/kg	190 U	190 U	180 U	190 U	190 U	180 U	180 U	180 U	190 U	190 U	200 U	180 U
Bis(2-Chloroethoxy) methane	ug/kg	190 U	190 U	180 U	190 U	190 U	180 U	180 U	180 U	190 U	190 U	200 U	180 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	58 J	--	--	--	--	--	--	38 J	370 U	--	--	360 U
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	--	9.2 J	120	21 UJ	21 UJ	6.8 J	20 UJ	--	--	21	130	--
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	190 U	--	--	180 U
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	20 U	20 U	20 U	21 U	21 U	20 U	20 U	20 U	--	21 U	22 U	--
Hexachlorobenzene	ug/kg	190 U	190 U	180 U	190 U	190 U	180 U	180 U	180 U	190 U	190 U	200 U	180 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	19 J	--	--	--	--
Anthracene (8270C SIM)	ug/kg	1.9 U	0.47 J	1.8 U	1.9 U	1.9 U	1.8 U	1.8 U	--	19 U	1.9 U	2 U	9.1 U
2,4-Dichlorophenol	ug/kg	190 U	190 U	180 U	190 U	190 U	180 U	180 U	180 U	190 U	190 U	200 U	180 U
1,2-Diphenylhydrazine	ug/kg	190 U	190 U	180 U	190 U	190 U	180 U	180 U	180 U	190 U	190 U	200 U	180 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	270	--	--	--	--
Pyrene (8270C SIM)	ug/kg	2.1 J	0.9 J	1.5 J	1.9 U	1.9 U	1.8 U	1.4 J	--	20	1.9 U	2 U	5 J
Dimethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	190 U	--	--	180 U
Dimethylphthalate (8270C SIM)	ug/kg	20 U	20 U	20 U	21 U	21 U	20 U	20 U	20 U	--	21 U	22 U	--
Dibenzofuran	ug/kg	190 U	190 U	180 U	190 U	190 U	180 U	180 U	180 U	190 U	190 U	200 U	180 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--	--	23 J	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	1.1 J	1.9 U	0.79 J	1.9 U	1.9 U	1.8 U	2	--	18 J	1.9 U	2 U	9.5
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	19 J	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U	1.6 J	--	19 U	1.9 U	2 U	9.1 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	54 J	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	1.5 J	1.9 U	1.3 J	3.1	0.96 J	1.8 U	2.4	--	27	1.9 U	2 U	6.3 J
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	220	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	2.2 J	1.1 J	1.4 J	1.9 U	1.9 U	1.8 U	1.6 J	--	17 J	1.9 U	2 U	9.1 U
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	29 J	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U	1.2 J	--	38	1.9 U	2 U	9.1 U
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	1.9 U	1.9 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 U	9.1 U

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Appendix A6
Semivolatile Organics - Validated Data
HSA-5B

	Sample Name	SL-294-SA5B-SB-4.0-5.0	SL-294-SA5B-SB-9.0-10.0	SL-295-SA5B-SS-0.0-0.5	SL-295-SA5B-SB-4.0-5.0	SL-295-SA5B-SB-9.0-10.0	SL-296-SA5B-SS-0.0-0.5	SL-296-SA5B-SB-4.0-5.0	SL-296-SA5B-SB-9.0-10.0	SL-297-SA5B-SS-0.0-0.5	SL-297-SA5B-SB-4.0-5.0	SL-297-SA5B-SB-7.0-8.0	SL-298-SA5B-SS-0.0-0.5
	Sample Date	01/20/2011	01/20/2011	12/08/2010	01/18/2011	01/18/2011	12/08/2010	01/18/2011	01/18/2011	12/08/2010	12/15/2010	12/15/2010	01/05/2011
	Lab SDG	DE065	DE065	DE031	DE063	DE063	DE031	DE063	DE063	DE031	DE041	DE041	DE053
	Start Depth	4	9	0	4	9	0	4	9	0	4	7	0
	End Depth	5	10	0.5	5	10	0.5	5	10	0.5	5	8	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Chrysene (8270C)	ug/kg	--	--	--	--	--	--	--	84 J	--	--	--	--
Chrysene (8270C SIM)	ug/kg	2.1 J	0.84 J	1.1 J	1.9 U	1.9 U	0.47 J	1.3 J	--	21	0.39 J	0.89 J	8.8 J
bis(2-Chloroisopropyl) ether	ug/kg	190 U	190 U	180 U	190 U	190 U	180 U	180 U	180 U	190 U	190 U	200 U	180 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	43 J	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	1.1 J	1.9 U	1 J	1.9 U	1.9 U	1.8 U	1.3 J	--	13 J	1.9 U	2 U	7.5 J
2,4-Dinitrophenol	ug/kg	1100 U	1100 U	2200 U	1100 U	1200 U	2200 U	1100 U	1100 U	2200 U	2300 U	2400 U	2200 U
4,6-Dinitro-2-Methylphenol	ug/kg	560 U	560 U	550 U	570 U	580 U	540 U	550 U	550 U	560 U	580 U	600 U	540 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	1.9 U	1.9 U	1.8 U	1.9 U	1.9 U	1.8 U	1.5 J	0.79 J	19 U	1.9 U	2 U	9.1 U
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	97 J	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	1.2 J	1.9 U	1 J	1.9 U	1.9 U	1.8 U	0.87 J	--	11 J	1.9 U	2 U	9.1 U
4-Chloro-3-Methylphenol	ug/kg	190 U	190 U	180 U	190 U	190 U	180 U	180 U	180 U	190 U	190 U	200 U	180 U
N-Nitroso-Di-N-Propylamine	ug/kg	190 U	190 U	180 U	190 U	190 U	180 U	180 U	180 U	190 U	190 U	200 U	180 U
Aniline	ug/kg	560 U	560 U	550 U	570 U	580 U	540 U	550 U	550 U	560 U	580 U	600 U	540 U
Benzoic Acid	ug/kg	560 U	560 U	550 U	570 U	580 U	540 U	550 U	550 U	560 U	580 U	600 U	540 U
Hexachloroethane	ug/kg	190 U	190 U	180 U	190 U	190 U	180 U	180 U	180 U	190 U	190 U	200 U	180 U
4-Chlorophenyl Phenylether	ug/kg	190 U	190 U	180 U	190 U	190 U	180 U	180 U	180 U	190 U	190 U	200 U	180 U
Hexachlorocyclopentadiene	ug/kg	560 U	560 U	550 U	570 U	580 U	540 U	550 U	550 U	560 U	580 U	600 U	540 U
Isophorone	ug/kg	190 U	190 U	180 U	190 U	190 U	180 U	180 U	180 U	190 U	190 U	200 U	180 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	1.9 U	1.9 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 U	9.1 U
Diethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	190 U	--	--	180 U
Diethylphthalate (8270C SIM)	ug/kg	20 U	20 U	20 U	21 U	21 U	20 U	20 U	20 U	--	21 U	22 U	--
Di-n-Butylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	190 U	--	--	180 U
Di-n-Butylphthalate (8270C SIM)	ug/kg	20 U	20 U	12 J	21 U	21 U	6.9 J	20 U	20 U	--	21 U	22 U	--
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	--	66 J	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	1.9 U	1.8 J	0.88 J	1.9 U	1.9 U	1.8 U	0.99 J	--	7.6 J	1.9 U	0.85 J	9.1 U
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	190 U	--	--	180 U
Butylbenzylphthalate (8270C SIM)	ug/kg	20 U	20 U	8.9 J	21 U	21 UJ	20 U	20 U	20 U	--	21 U	22 U	--
N-Nitrosodiphenylamine	ug/kg	190 U	190 U	180 U	190 U	190 U	180 U	180 U	180 U	190 U	190 U	200 U	180 U
Fluorene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Fluorene (8270C SIM)	ug/kg	1.9 U	1.9 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 U	9.1 U
Carbazole	ug/kg	190 U	190 U	180 U	190 U	190 U	180 U	180 U	180 U	190 U	190 U	200 U	180 U
Pentachlorophenol	ug/kg	560 U	560 U	550 U	570 U	580 U	540 U	550 U	550 U	560 U	580 U	600 U	540 U
2,4,6-Trichlorophenol	ug/kg	190 U	190 U	180 U	190 U	190 U	180 U	180 U	180 U	190 U	190 U	200 U	180 U
2-Nitroaniline	ug/kg	190 U	190 U	180 U	190 U	190 U	180 U	180 U	180 U	190 U	190 U	200 U	180 U
2-Nitrophenol	ug/kg	190 U	190 U	180 U	190 U	190 U	180 U	180 U	180 U	190 U	190 U	200 U	180 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	1.9 U	1.9 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 U	9.1 U
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene (8270C SIM)	ug/kg	1.9 UJ	1.9 U	1.8 U	1.9 U	0.94 J	1.8 U	1.8 U	1.8 U	19 U	1.9 U	1.5 J	9.1 U
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	1.9 U	1.9 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 U	9.1 U
2-Chloronaphthalene	ug/kg	190 U	190 U	180 U	190 U	190 U	180 U	180 U	180 U	190 U	190 U	200 U	180 U
3,3`-Dichlorobenzidine	ug/kg	370 UJ	370 UJ	370 UJ	380 UJ	390 UJ	360 UJ	370 UJ	370 UJ	370 UJ	380 U	400 U	360 U

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

Appendix A6
Semivolatile Organics - Validated Data
HSA-5B

	Sample Name	SL-294-SA5B-SB-4.0-5.0	SL-294-SA5B-SB-9.0-10.0	SL-295-SA5B-SS-0.0-0.5	SL-295-SA5B-SB-4.0-5.0	SL-295-SA5B-SB-9.0-10.0	SL-296-SA5B-SS-0.0-0.5	SL-296-SA5B-SB-4.0-5.0	SL-296-SA5B-SB-9.0-10.0	SL-297-SA5B-SS-0.0-0.5	SL-297-SA5B-SB-4.0-5.0	SL-297-SA5B-SB-7.0-8.0	SL-298-SA5B-SS-0.0-0.5
	Sample Date	01/20/2011	01/20/2011	12/08/2010	01/18/2011	01/18/2011	12/08/2010	01/18/2011	01/18/2011	12/08/2010	12/15/2010	12/15/2010	01/05/2011
	Lab SDG	DE065	DE065	DE031	DE063	DE063	DE031	DE063	DE063	DE031	DE041	DE041	DE053
	Start Depth	4	9	0	4	9	0	4	9	0	4	7	0
	End Depth	5	10	0.5	5	10	0.5	5	10	0.5	5	8	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Benzidine	ug/kg	3700 U	3700 U	3700 U	3800 U	3900 U	3600 U	3700 U	3700 U	3700 U	3800 U	4000 U	3600 U
2-Methylphenol	ug/kg	190 U	190 U	180 U	190 U	190 U	180 U	180 U	180 U	190 U	190 U	200 U	180 U
2-Chlorophenol	ug/kg	190 U	190 U	180 U	190 U	190 U	180 U	180 U	180 U	190 U	190 U	200 U	180 U
2,4,5-Trichlorophenol	ug/kg	190 U	190 U	180 U	190 U	190 U	180 U	180 U	180 U	190 U	190 U	200 U	180 U
3-Nitroaniline	ug/kg	190 U	190 U	180 U	190 U	190 U	180 U	180 U	180 U	190 U	190 U	200 U	180 U
Benzyl Alcohol	ug/kg	560 U	560 U	550 U	570 U	580 U	540 U	550 U	550 U	560 U	580 U	600 U	540 U
2,6-Dinitrotoluene	ug/kg	190 U	190 U	180 U	190 U	190 U	180 U	180 U	180 U	190 U	190 U	200 U	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-5B

	Sample Name	SL-298-SA5B-SB-4.0-5.0	SL-298-SA5B-SB-9.0-10.0	SL-299-SA5B-SS-0.0-0.5	SL-300-SA5B-SS-0.0-0.5	SL-301-SA5B-SS-0.0-0.5	SL-301-SA5B-SB-4.0-5.0	SL-301-SA5B-SB-7.5-8.5	SL-302-SA5B-SS-0.0-0.5	SL-303-SA5B-SS-0.0-0.5	SL-304-SA5B-SS-0.0-0.5	SL-304-SA5B-SB-3.0-4.0	SL-306-SA5B-SS-0.0-0.5
	Sample Date	12/15/2010	12/15/2010	12/10/2010	12/10/2010	12/13/2010	01/13/2011	01/13/2011	12/15/2010	12/15/2010	12/16/2010	03/09/2011	12/09/2010
	Lab SDG	DE041	DE041	DE034	DE034	DE036	DE060	DE060	DE041	DE041	DE043	DE101	DE032
	Start Depth	4	9	0	0	0	4	7.5	0	0	0	3	0
	End Depth	5	10	0.5	0.5	0.5	5	8.5	0.5	0.5	0.5	4	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
N-Nitrosodimethylamine (1625C)	ng/kg	60.8	56.4	--	--	--	--	--	--	--	--	38.4 U	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.9 U	1.8 U	1.9 U	2 U	1.8 U	1.9 U	1.9 U	1.9 U	9.7 U	1.8 U	1.9 U	1.8 U
2,4-Dinitrotoluene	ug/kg	190 U	180 U	190 U	200 U	180 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U
Nitrobenzene	ug/kg	190 U	180 U	190 U	200 U	180 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U
1,4-Dichlorobenzene	ug/kg	190 U	180 U	190 U	200 U	180 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U
1,2,4-Trichlorobenzene	ug/kg	190 U	180 U	190 U	200 U	180 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U
1,3-Dichlorobenzene	ug/kg	190 U	180 U	190 U	200 U	180 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U
Hexachlorobutadiene	ug/kg	190 U	180 U	190 U	200 U	180 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U
1,2-Dichlorobenzene	ug/kg	190 U	180 U	190 U	200 U	180 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U
4-Nitroaniline	ug/kg	190 U	180 U	190 U	200 U	180 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U
4-Nitrophenol	ug/kg	570 U	530 U	580 U	600 U	550 U	560 U	580 U	560 U	580 U	530 U	570 U	550 U
4-Bromophenyl Phenyl Ether	ug/kg	190 U	180 U	190 U	200 U	180 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U
2,4-Dimethylphenol	ug/kg	190 U	180 U	190 U	200 U	180 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U
4-Methylphenol	ug/kg	190 U	180 U	190 U	200 U	180 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U
4-Chloroaniline	ug/kg	190 U	180 U	190 U	200 U	180 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U
3,5-Dimethylphenol	ug/kg	190 U	180 U	190 U	200 U	180 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U
Phenol	ug/kg	190 U	180 U	190 U	200 U	180 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U
Bis(2-Chloroethyl) ether	ug/kg	190 U	180 U	190 U	200 U	180 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U
Bis(2-Chloroethoxy) methane	ug/kg	190 U	180 U	190 U	200 U	180 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	--	--	--	--	26 J	370 U	390 U	--	--	--	--	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	7.6 J	19 U	11 J	35	--	--	--	30	55 J	14 J	21 U	40
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	190 U	--	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	20 U	19 U	21 U	22 U	20 U	20 U	21 U	9.8 J	--	8.7 J	12 J	7 J
Hexachlorobenzene	ug/kg	190 U	180 U	190 U	200 U	180 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	1.9 U	1.8 U	1.9 U	2 U	1.1 J	1.9 U	1.9 U	5.8	9.7 U	1.5 J	1.9 U	0.56 J
2,4-Dichlorophenol	ug/kg	190 U	180 U	190 U	200 U	180 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U
1,2-Diphenylhydrazine	ug/kg	190 U	180 U	190 U	200 U	180 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U
Pyrene (8270C)	ug/kg	--	--	--	--	21 J	--	--	51 J	--	--	--	--
Pyrene (8270C SIM)	ug/kg	0.97 J	1.8 U	2.5	2 U	--	1.9 U	1.9 U	--	5.2 J	11	1.9 U	5.6
Dimethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	190 U	--	--	--
Dimethylphthalate (8270C SIM)	ug/kg	20 U	19 U	21 U	22 U	20 U	20 U	21 U	20 U	--	19 U	21 U	7.7 J
Dibenzofuran	ug/kg	190 U	180 U	190 U	200 U	180 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	18 J	--	--	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	1.9 U	1.8 U	1.4 J	1.6 J	--	1.9 U	1.9 U	5.7	16	6.3	1.9 U	6.4
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	1.9 U	1.8 U	1.9 U	2 U	5	1.9 U	1.9 U	1.7 J	9.7 U	6.1	1.9 U	2.6
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	29 J	--	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	1.9 U	1.8 U	2.9	2.2	--	1.9 U	1.9 U	14	14	19	1.9 U	14
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	1.3 J	1.8 U	3.4	2 U	16	1.9 U	1.9 U	14	9.7 U	11	1.9 U	4.7
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	1.9 U	1.8 U	0.84 J	2 U	4.9	1.9 U	1.9 U	6.8	9.7 U	3.3	1.9 U	9.7
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	1.9 U	1.8 U	1.9 U	2 U	0.4 J	1.9 U	1.9 U	1.6 J	9.7 U	0.69 J	1.9 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-5B

	Sample Name	SL-298-SA5B-SB-4.0-5.0	SL-298-SA5B-SB-9.0-10.0	SL-299-SA5B-SS-0.0-0.5	SL-300-SA5B-SS-0.0-0.5	SL-301-SA5B-SS-0.0-0.5	SL-301-SA5B-SB-4.0-5.0	SL-301-SA5B-SB-7.5-8.5	SL-302-SA5B-SS-0.0-0.5	SL-303-SA5B-SS-0.0-0.5	SL-304-SA5B-SS-0.0-0.5	SL-304-SA5B-SB-3.0-4.0	SL-306-SA5B-SS-0.0-0.5
	Sample Date	12/15/2010	12/15/2010	12/10/2010	12/10/2010	12/13/2010	01/13/2011	01/13/2011	12/15/2010	12/15/2010	12/16/2010	03/09/2011	12/09/2010
	Lab SDG	DE041	DE041	DE034	DE034	DE036	DE060	DE060	DE041	DE041	DE043	DE101	DE032
	Start Depth	4	9	0	0	0	4	7.5	0	0	0	3	0
	End Depth	5	10	0.5	0.5	0.5	5	8.5	0.5	0.5	0.5	4	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Chrysene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	0.56 J	1.8 U	2.4	2.4	17	1.9 U	1.9 U	16	18	18	1.9 U	9.2
bis(2-Chloroisopropyl) ether	ug/kg	190 U	180 U	190 U	200 U	180 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	22 J	--	--	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	1.9 U	1.8 U	1.3 J	2 U	--	1.9 U	1.9 U	13	14	6.8	1.9 U	9.8
2,4-Dinitrophenol	ug/kg	2300 U	2100 U	2300 U	2400 U	2200 U	2200 U	2300 U	2300 U	2300 U	2100 U	1100 U	2200 U
4,6-Dinitro-2-Methylphenol	ug/kg	570 U	530 U	580 U	600 U	550 U	560 U	580 U	560 U	580 U	530 U	570 U	550 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	1.9 U	1.8 U	1.9 U	2 U	1.7 J	1.9 U	1.9 U	0.92 J	4.6 J	1.6 J	1.9 U	1.7 J
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	1.9 U	1.8 U	0.99 J	2 U	9.2	1.9 U	1.9 U	7.6	4.5 J	5.7	1.9 U	4.7
4-Chloro-3-Methylphenol	ug/kg	190 U	180 U	190 U	200 U	180 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U
N-Nitroso-Di-N-Propylamine	ug/kg	190 U	180 U	190 U	200 U	180 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U
Aniline	ug/kg	570 U	530 U	580 U	600 U	550 U	560 U	580 U	560 U	580 U	530 U	570 U	550 U
Benzoic Acid	ug/kg	570 U	530 U	580 U	600 U	550 U	560 U	580 U	560 U	580 U	530 U	570 U	550 U
Hexachloroethane	ug/kg	190 U	180 U	190 U	200 U	180 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U
4-Chlorophenyl Phenylether	ug/kg	190 U	180 U	190 U	200 U	180 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U
Hexachlorocyclopentadiene	ug/kg	570 U	530 U	580 U	600 U	550 U	560 U	580 U	560 U	580 U	530 U	570 U	550 U
Isophorone	ug/kg	190 U	180 U	190 U	200 U	180 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	1.9 U	1.8 U	1.9 U	2 U	1.8 U	1.9 U	1.9 U	1.9 U	9.7 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	21 U	22 U	20 U	20 U	21 U	20 U	--	19 U	21 U	20 U
Di-n-Butylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	190 U	--	190 U	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	20 U	19 U	21 U	22 U	7.4 J	20 U	21 U	20 U	--	9.4 J	--	20 U
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	1.3 J	1.8 U	1.5 J	2 U	6.3	1.9 U	1.9 U	9.7	5.9 J	12	1.9 U	1 J
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	190 U	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	20 U	19 U	21 U	11 J	20 U	20 U	21 U	20 U	--	6.7 J	21 U	20 U
N-Nitrosodiphenylamine	ug/kg	190 U	180 U	190 U	200 U	180 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U
Fluorene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Fluorene (8270C SIM)	ug/kg	1.9 U	1.8 U	1.9 U	2 U	1.8 U	1.9 U	1.9 U	0.91 J	9.7 U	0.84 J	1.9 U	1.8 U
Carbazole	ug/kg	190 U	180 U	190 U	200 U	180 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U
Pentachlorophenol	ug/kg	570 U	530 U	580 U	600 U	550 U	560 U	580 U	560 U	580 U	530 U	570 U	550 U
2,4,6-Trichlorophenol	ug/kg	190 U	180 U	190 U	200 U	180 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U
2-Nitroaniline	ug/kg	190 U	180 U	190 U	200 U	180 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U
2-Nitrophenol	ug/kg	190 U	180 U	190 U	200 U	180 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	1.9 U	1.8 U	1.9 U	2 U	1.2 J	1.9 U	1.9 U	1.3 J	9.7 U	6.2	1.9 U	1.8 U
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene (8270C SIM)	ug/kg	1.9 U	1.8 U	1.9 U	2 U	1.5 J	1.9 U	1.9 U	1.3 J	9.7 U	6.2	1.9 U	1.8 U
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	1.9 U	1.8 U	1.9 U	2 U	1.5 J	1.9 U	1.9 U	1.4 J	9.7 U	7.5	1.9 U	1.8 U
2-Chloronaphthalene	ug/kg	190 U	180 U	190 U	200 U	180 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U
3,3`-Dichlorobenzidine	ug/kg	380 U	350 U	390 U	400 U	370 UJ	370 U	390 U	380 U	390 U	350 U	380 U	370 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-5B

	Sample Name	SL-298-SA5B-SB-4.0-5.0	SL-298-SA5B-SB-9.0-10.0	SL-299-SA5B-SS-0.0-0.5	SL-300-SA5B-SS-0.0-0.5	SL-301-SA5B-SS-0.0-0.5	SL-301-SA5B-SB-4.0-5.0	SL-301-SA5B-SB-7.5-8.5	SL-302-SA5B-SS-0.0-0.5	SL-303-SA5B-SS-0.0-0.5	SL-304-SA5B-SS-0.0-0.5	SL-304-SA5B-SB-3.0-4.0	SL-306-SA5B-SS-0.0-0.5
	Sample Date	12/15/2010	12/15/2010	12/10/2010	12/10/2010	12/13/2010	01/13/2011	01/13/2011	12/15/2010	12/15/2010	12/16/2010	03/09/2011	12/09/2010
	Lab SDG	DE041	DE041	DE034	DE034	DE036	DE060	DE060	DE041	DE041	DE043	DE101	DE032
	Start Depth	4	9	0	0	0	4	7.5	0	0	0	3	0
	End Depth	5	10	0.5	0.5	0.5	5	8.5	0.5	0.5	0.5	4	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Benzidine	ug/kg	3800 U	3500 U	3900 U	4000 U	3700 U	3700 U	3900 U	3800 U	3900 U	3500 U	3800 U	3700 U
2-Methylphenol	ug/kg	190 U	180 U	190 U	200 U	180 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U
2-Chlorophenol	ug/kg	190 U	180 U	190 U	200 U	180 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U
2,4,5-Trichlorophenol	ug/kg	190 U	180 U	190 U	200 U	180 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U
3-Nitroaniline	ug/kg	190 U	180 U	190 U	200 U	180 U	190 U	190 U	190 U	190 U	180 U	190 U	180 U
Benzyl Alcohol	ug/kg	570 U	530 U	580 U	600 U	550 U	560 U	580 U	560 U	580 U	530 U	570 U	550 U
2,6-Dinitrotoluene	ug/kg	190 U	180 U	190 U	200 U	180 U	190 U	190 U	190 U	190 U	180 U	190 U	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-5B

	Sample Name	SL-307-SA5B-SS-0.0-0.5	SL-307-SA5B-SB-4.0-5.0	SL-307-SA5B-SB-9.0-10.0	SL-307-SA5B-SB-14.0-15.0	SL-308-SA5B-SS-0.0-0.5	SL-308-SA5B-SB-4.0-5.0	SL-308-SA5B-SB-9.0-10.0	SL-308-SA5B-SB-14.0-15.0	SL-309-SA5B-SS-0.0-0.5	SL-310-SA5B-SS-0.0-0.5	SL-311-SA5B-SS-0.0-0.5	SL-312-SA5B-SS-0.0-0.5
	Sample Date	12/08/2010	01/21/2011	01/21/2011	01/21/2011	12/08/2010	01/21/2011	01/21/2011	01/21/2011	12/14/2010	12/14/2010	12/14/2010	12/14/2010
	Lab SDG	DE032	DE066	DE066	DE066	DE031	DE066	DE066	DE066	DE038	DE038	DE038	DE038
	Start Depth	0	4	9	14	0	4	9	14	0	0	0	0
	End Depth	0.5	5	10	15	0.5	5	10	15	0.5	0.5	0.5	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
N-Nitrosodimethylamine (1625C)	ng/kg	--	37 U	30.5 J	157	--	58.7	31.7 J	52.9	--	--	--	--
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.8 U	1.8 U	2 U	2 U	1.8 U	1.9 U	1.8 U	1.8 U	1.7 U	1.8 U	9 U	8.8 U
2,4-Dinitrotoluene	ug/kg	180 U	180 U	200 U	200 U	180 U	190 U	180 U	180 U	170 U	180 U	180 U	180 U
Nitrobenzene	ug/kg	180 U	180 U	200 U	200 U	180 U	190 U	180 U	180 U	170 U	180 U	180 U	180 U
1,4-Dichlorobenzene	ug/kg	180 U	180 U	200 U	200 U	180 U	190 U	180 U	180 U	170 U	180 U	180 U	180 U
1,2,4-Trichlorobenzene	ug/kg	180 U	180 U	200 U	200 U	180 U	190 U	180 U	180 U	170 U	180 U	180 U	180 U
1,3-Dichlorobenzene	ug/kg	180 U	180 U	200 U	200 U	180 U	190 U	180 U	180 U	170 U	180 U	180 U	180 U
Hexachlorobutadiene	ug/kg	180 U	180 U	200 U	200 U	180 U	190 U	180 U	180 U	170 U	180 U	180 U	180 U
1,2-Dichlorobenzene	ug/kg	180 U	180 U	200 U	200 U	180 U	190 U	180 U	180 U	170 U	180 U	180 U	180 U
4-Nitroaniline	ug/kg	180 U	180 U	200 U	200 U	180 U	190 U	180 U	180 U	170 U	180 U	180 U	180 U
4-Nitrophenol	ug/kg	550 U	550 U	600 U	610 U	550 U	570 U	550 U	550 U	520 U	530 U	540 U	530 U
4-Bromophenyl Phenyl Ether	ug/kg	180 U	180 U	200 U	200 U	180 U	190 U	180 U	180 U	170 U	180 U	180 U	180 U
2,4-Dimethylphenol	ug/kg	180 U	180 U	200 U	200 U	180 U	190 U	180 U	180 U	170 U	180 U	180 U	180 U
4-Methylphenol	ug/kg	180 U	180 U	200 U	200 U	180 U	190 U	180 U	180 U	170 U	180 U	180 U	180 U
4-Chloroaniline	ug/kg	180 U	180 U	200 U	200 U	180 U	190 U	180 U	180 U	170 U	180 U	180 U	180 U
3,5-Dimethylphenol	ug/kg	180 U	180 U	200 U	200 U	180 U	190 U	180 U	180 U	170 U	180 U	180 U	180 U
Phenol	ug/kg	180 U	180 U	200 U	200 U	180 U	190 U	180 U	180 U	170 U	180 U	180 U	180 U
Bis(2-Chloroethyl) ether	ug/kg	180 U	180 U	200 U	200 U	180 U	190 U	180 U	180 U	170 U	180 U	180 U	180 U
Bis(2-Chloroethoxy) methane	ug/kg	180 U	180 U	200 U	200 U	180 U	190 U	180 U	180 U	170 U	180 U	180 U	180 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	350 U	350 U	360 U	350 U
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	20 U	20 U	13 J	22 U	11 J	20 U	20 U	20 U	--	--	--	--
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	20 U	20 U	22 U	22 U	20 U	20 U	20 U	20 U	19 U	19 U	98 U	95 U
Hexachlorobenzene	ug/kg	180 U	180 U	200 U	200 U	180 U	190 U	180 U	180 U	170 U	180 U	180 U	180 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	1.8 U	1.8 U	2 U	2 U	1.8 U	1.9 U	1.8 U	1.8 U	0.52 J	0.4 J	9 U	1.9 J
2,4-Dichlorophenol	ug/kg	180 U	180 U	200 U	200 U	180 U	190 U	180 U	180 U	170 U	180 U	180 U	180 U
1,2-Diphenylhydrazine	ug/kg	180 U	180 U	200 U	200 U	180 U	190 U	180 U	180 U	170 U	180 U	180 U	180 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	23 J	--	--	--
Pyrene (8270C SIM)	ug/kg	6.6	1.8 U	2 U	2 U	0.73 J	1.9 U	0.91 J	1.8 U	--	8.9	9 U	26
Dimethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	19 J
Dimethylphthalate (8270C SIM)	ug/kg	20 U	20 U	22 U	22 U	20 U	20 U	20 U	20 U	19 U	19 U	120	--
Dibenzofuran	ug/kg	180 U	180 U	200 U	200 U	180 U	190 U	180 U	180 U	170 U	180 U	180 U	180 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	1.8	1.8 U	2 U	2 U	1.1 J	1.9 U	1.8 U	1.8 U	1.9	2.9	9 U	8.4 J
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	1.5 J	1.8 U	2 U	2 U	1.8 U	1.9 U	1.8 U	1.8 U	2.8	2.5	9 U	6.4 J
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	17 J	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	8	1.8 U	2 U	2 U	1.2 J	2.2 J	2.9 J	2.3	--	9.7	9 U	29
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	18 J	--	--	--
Fluoranthene (8270C SIM)	ug/kg	8.3	1.8 U	2 U	2 U	0.92 J	1.9 U	1.8 U	1.8 U	--	7.2	9 U	24
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	3.7	1.8 U	2 U	2 U	1.8 U	1.9 UJ	1.8 UJ	1.8 U	5.5	4.1	9 U	12
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	1.8 U	1.8 U	2 U	2 U	1.8 U	1.9 U	1.8 U	1.8 U	1.7 U	1.8 U	9 U	8.8 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-5B

	Sample Name	SL-307-SA5B-SS-0.0-0.5	SL-307-SA5B-SB-4.0-5.0	SL-307-SA5B-SB-9.0-10.0	SL-307-SA5B-SB-14.0-15.0	SL-308-SA5B-SS-0.0-0.5	SL-308-SA5B-SB-4.0-5.0	SL-308-SA5B-SB-9.0-10.0	SL-308-SA5B-SB-14.0-15.0	SL-309-SA5B-SS-0.0-0.5	SL-310-SA5B-SS-0.0-0.5	SL-311-SA5B-SS-0.0-0.5	SL-312-SA5B-SS-0.0-0.5
	Sample Date	12/08/2010	01/21/2011	01/21/2011	01/21/2011	12/08/2010	01/21/2011	01/21/2011	01/21/2011	12/14/2010	12/14/2010	12/14/2010	12/14/2010
	Lab SDG	DE032	DE066	DE066	DE066	DE031	DE066	DE066	DE066	DE038	DE038	DE038	DE038
	Start Depth	0	4	9	14	0	4	9	14	0	0	0	0
	End Depth	0.5	5	10	15	0.5	5	10	15	0.5	0.5	0.5	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Chrysene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	5.5	1.8 U	2 U	0.62 J	2	0.66 J	1.5 J	1.8 U	9.4	7.2	9 U	31
bis(2-Chloroisopropyl) ether	ug/kg	180 U	180 U	200 U	200 U	180 U	190 U	180 U	180 U	170 U	180 U	180 U	180 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	18 J	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	5.3	1.8 U	2 U	2 U	1.8 U	1.9 U	1.8 U	1.8 U	--	6.9	9 U	21
2,4-Dinitrophenol	ug/kg	2200 U	1100 U	1200 U	1200 U	2200 U	1100 U	1100 U	1100 U	2100 U	2100 U	2200 U	2100 U
4,6-Dinitro-2-Methylphenol	ug/kg	550 U	550 U	600 U	610 U	550 U	570 U	550 U	550 U	520 U	530 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	2 U	2 U	1.8 U	1.9 U	1.8 U	1.8 U	1.7 U	0.82 J	9 U	8.8 U
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	20 J	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	6.2	1.8 U	2 U	2 U	1.8 U	1.9 U	1.8 U	1.8 U	--	7.3	9 U	27
4-Chloro-3-Methylphenol	ug/kg	180 U	180 U	200 U	200 U	180 U	190 U	180 U	180 U	170 U	180 U	180 U	180 U
N-Nitroso-Di-N-Propylamine	ug/kg	180 U	180 U	200 U	200 U	180 U	190 U	180 U	180 U	170 U	180 U	180 U	180 U
Aniline	ug/kg	550 U	550 U	600 U	610 U	550 U	570 U	550 U	550 U	520 U	530 U	540 U	530 U
Benzoic Acid	ug/kg	550 U	550 U	600 U	610 U	550 U	570 U	550 U	550 U	520 U	530 U	540 U	530 U
Hexachloroethane	ug/kg	180 U	180 U	200 U	200 U	180 U	190 U	180 U	180 U	170 U	180 U	180 U	180 U
4-Chlorophenyl Phenylether	ug/kg	180 U	180 U	200 U	200 U	180 U	190 U	180 U	180 U	170 U	180 U	180 U	180 U
Hexachlorocyclopentadiene	ug/kg	550 U	550 U	600 U	610 U	550 U	570 U	550 U	550 U	520 U	530 U	540 U	530 U
Isophorone	ug/kg	180 U	180 U	200 U	200 U	180 U	190 U	180 U	180 U	170 U	180 U	180 U	180 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	1.8 U	1.8 U	2 U	2 U	1.8 U	1.9 U	1.8 U	1.8 U	1.7 U	1.8 U	4.9 J	4.6 J
Diethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Diethylphthalate (8270C SIM)	ug/kg	20 U	20 U	22 U	22 U	20 U	20 U	20 U	20 U	19 U	19 U	98 U	95 U
Di-n-Butylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	20 U	20 U	22 U	22 U	20 U	20 U	20 U	20 U	7.5 J	6.7 J	98 U	95 U
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	0.93 J	1.8 U	2 U	2 U	1.3 J	1.9 U	1.6 J	0.93 J	1.7 U	0.99 J	9 U	4.7 J
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	20 U	20 U	22 U	22 U	20 U	20 U	20 U	20 U	7.6 J	19 U	98 U	95 U
N-Nitrosodiphenylamine	ug/kg	180 U	180 U	200 U	200 U	180 U	190 U	180 U	180 U	170 U	180 U	180 U	180 U
Fluorene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Fluorene (8270C SIM)	ug/kg	1.8 U	1.8 U	2 U	2 U	1.8 U	1.9 U	1.8 U	1.8 U	1.7 U	1.8 U	9 U	8.8 U
Carbazole	ug/kg	180 U	180 U	200 U	200 U	180 U	190 U	180 U	180 U	170 U	180 U	180 U	180 U
Pentachlorophenol	ug/kg	550 U	550 U	600 U	610 U	550 U	570 U	550 U	550 U	520 U	530 U	540 U	530 U
2,4,6-Trichlorophenol	ug/kg	180 U	180 U	200 U	200 U	180 U	190 U	180 U	180 U	170 U	180 U	180 U	180 U
2-Nitroaniline	ug/kg	180 U	180 U	200 U	200 U	180 U	190 U	180 U	180 U	170 U	180 U	180 U	180 U
2-Nitrophenol	ug/kg	180 U	180 U	200 U	200 U	180 U	190 U	180 U	180 U	170 U	180 U	180 U	180 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	1.8 U	1.8 U	2 U	2 U	1.8 U	1.9 U	4.8	1.8 U	1.7 U	1.8 U	6.2 J	6.1 J
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene (8270C SIM)	ug/kg	1.8 U	1.8 U	2 U	2 U	1.8 U	1.9 U	3.1	1.8 U	1.7 U	1.8 U	170	170
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	1.8 U	1.8 U	2 U	2 U	1.8 U	1.9 U	6.1	1.8 U	1.7 U	1.8 U	9.8	9.7
2-Chloronaphthalene	ug/kg	180 U	180 U	200 U	200 U	180 U	190 U	180 U	180 U	170 U	180 U	180 U	180 U
3,3`-Dichlorobenzidine	ug/kg	360 U	370 U	400 U	410 U	360 UJ	380 U	370 U	370 U	350 U	350 U	360 U	350 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-5B

	Sample Name	SL-307-SA5B-SS-0.0-0.5	SL-307-SA5B-SB-4.0-5.0	SL-307-SA5B-SB-9.0-10.0	SL-307-SA5B-SB-14.0-15.0	SL-308-SA5B-SS-0.0-0.5	SL-308-SA5B-SB-4.0-5.0	SL-308-SA5B-SB-9.0-10.0	SL-308-SA5B-SB-14.0-15.0	SL-309-SA5B-SS-0.0-0.5	SL-310-SA5B-SS-0.0-0.5	SL-311-SA5B-SS-0.0-0.5	SL-312-SA5B-SS-0.0-0.5
	Sample Date	12/08/2010	01/21/2011	01/21/2011	01/21/2011	12/08/2010	01/21/2011	01/21/2011	01/21/2011	12/14/2010	12/14/2010	12/14/2010	12/14/2010
	Lab SDG	DE032	DE066	DE066	DE066	DE031	DE066	DE066	DE066	DE038	DE038	DE038	DE038
	Start Depth	0	4	9	14	0	4	9	14	0	0	0	0
	End Depth	0.5	5	10	15	0.5	5	10	15	0.5	0.5	0.5	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Benzidine	ug/kg	3600 U	3700 U	4000 U	4100 U	3600 U	3800 U	3700 U	3700 U	3500 U	3500 U	3600 U	3500 U
2-Methylphenol	ug/kg	180 U	180 U	200 U	200 U	180 U	190 U	180 U	180 U	170 U	180 U	180 U	180 U
2-Chlorophenol	ug/kg	180 U	180 U	200 U	200 U	180 U	190 U	180 U	180 U	170 U	180 U	180 U	180 U
2,4,5-Trichlorophenol	ug/kg	180 U	180 U	200 U	200 U	180 U	190 U	180 U	180 U	170 U	180 U	180 U	180 U
3-Nitroaniline	ug/kg	180 U	180 U	200 U	200 U	180 U	190 U	180 U	180 U	170 U	180 U	180 U	180 U
Benzyl Alcohol	ug/kg	550 U	550 U	600 U	610 U	550 U	570 U	550 U	550 U	520 U	530 U	540 U	530 U
2,6-Dinitrotoluene	ug/kg	180 U	180 U	200 U	200 U	180 U	190 U	180 U	180 U	170 U	180 U	180 U	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-5B

	Sample Name	SL-313-SA5B-SB-4.0-5.0	SL-313-SA5B-SB-9.0-10.0	SL-314-SA5B-SS-0.0-0.5	SL-314-SA5B-SB-4.0-5.0	SL-315-SA5B-SS-0.0-0.5	SL-315-SA5B-SB-3.0-4.0	SL-316-SA5B-SS-0.0-0.5	SL-316-SA5B-SB-4.5-5.5	SL-319-SA5B-SS-0.0-0.5	SL-319-SA5B-SB-4.0-5.0	SL-321-SA5B-SS-0.0-0.5	SL-321-SA5B-SB-3.0-4.0
	Sample Date	02/08/2011	02/08/2011	02/09/2011	02/08/2011	02/08/2011	02/10/2011	02/08/2011	02/09/2011	02/09/2011	02/10/2011	02/10/2011	02/17/2011
	Lab SDG	DE078	DE078	DE079	DE078	DE078	DE080	DE078	DE079	DE079	DE080	DE080	DE084
	Start Depth	4	9	0	4	0	3	0	4.5	0	4	0	3
	End Depth	5	10	0.5	5	0.5	4	0.5	5.5	0.5	5	0.5	4
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
N-Nitrosodimethylamine (1625C)	ng/kg	185 U	186 U	180 U	185 U	177 U	180 U	175 U	178 U	--	179 U	--	37.8 U
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.8 U	1.9 U	1.8 U	1.8 U	1.8 U	1.8 U	1.7 U	1.8 U	1.8 U	8.9 U	8.8 U	1.9 U
2,4-Dinitrotoluene	ug/kg	180 U	190 U	180 U	180 U	180 U	180 U	170 U	180 U	180 U	180 U	180 U	190 U
Nitrobenzene	ug/kg	180 U	190 U	180 U	180 U	180 U	180 U	170 U	180 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	170 U	180 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	170 U	180 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	170 U	180 U	180 U	180 U	180 U	190 U
Hexachlorobutadiene	ug/kg	180 U	190 U	180 U	180 U	180 U	180 U	170 U	180 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	170 U	180 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	170 U	180 U	180 U	180 U	180 U	190 U
4-Nitrophenol	ug/kg	550 U	560 U	540 U	550 U	530 U	540 U	520 U	530 U	530 U	540 U	530 U	570 U
4-Bromophenyl Phenyl Ether	ug/kg	180 U	190 U	180 U	180 U	180 U	180 U	170 U	180 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	170 U	180 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	170 U	180 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	170 U	180 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	170 U	180 U	180 U	180 U	180 U	190 U
Phenol	ug/kg	180 U	190 U	180 U	180 U	180 U	180 U	170 U	180 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	170 U	180 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	170 U	180 U	180 U	180 U	180 U	190 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	--	--	25 J	130 J	--	--	59 J	29 J	--	--	--	380 U
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	100	61	--	--	70	19 U	--	--	960 U	96 U	95 U	--
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	180 U	--	--	--	--	--	180 U	--	180 U	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	20 U	20 U	--	20 U	19 U	6.5 J	19 U	19 U	--	38 J	--	20 U
Hexachlorobenzene	ug/kg	180 U	190 U	180 U	180 U	180 U	180 U	170 U	180 U	180 U	180 U	180 U	190 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	1.7 J	1.8 J	1.8 U	1.4 J	0.53 J	1.8 U	1.7 U	1.8 U	0.59 J	8.9 U	8.8 U	1.9 U
2,4-Dichlorophenol	ug/kg	180 U	190 U	180 U	180 U	180 U	180 U	170 U	180 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	170 U	180 U	180 U	180 U	180 U	190 U
Pyrene (8270C)	ug/kg	--	--	--	28 J	--	--	--	--	--	--	100 J	--
Pyrene (8270C SIM)	ug/kg	13	19	1.2 J	--	3.9	2.4	1.5 J	3.9	3.8	5.2 J	--	1.9 U
Dimethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	180 U	--
Dimethylphthalate (8270C SIM)	ug/kg	20 U	20 U	19 U	20 U	19 U	19 U	19 U	19 U	19 U	--	--	20 U
Dibenzofuran	ug/kg	180 U	190 U	180 U	180 U	180 U	180 U	170 U	180 U	180 U	180 U	180 U	190 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	59 J	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	1.9	2.7	0.9 J	2.2	3	1.8 U	1.2 J	1.4 J	1.5 J	8.9 U	--	1.9 U
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	30 J	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	1.1 J	1.2 J	1.8 U	1.6 J	1.3 J	1.8 U	1.7 U	0.82 J	1.8 U	8.9 U	--	1.9 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	47 J	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	11	34	2.1	16	5.4	1.6 J	2.3	4.7	4.4	6.5 J	--	1.9 U
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	92 J	--
Fluoranthene (8270C SIM)	ug/kg	14	9.6	0.91 J	15	4.9	1.4 J	1.3 J	2	3.4	3.7 J	--	1.9 U
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	27 J	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	3	1.9 U	1.4 J	6.6	1.5 J	1.6 J	1.1 J	1.2 J	2	4.3 J	--	1.9 U
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	1.8 U	1.9 U	1.8 U	1.8 U	1.8 U	1.8 U	1.7 U	1.8 U	1.8 U	8.9 U	8.8 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-5B

	Sample Name	SL-313-SA5B-SB-4.0-5.0	SL-313-SA5B-SB-9.0-10.0	SL-314-SA5B-SS-0.0-0.5	SL-314-SA5B-SB-4.0-5.0	SL-315-SA5B-SS-0.0-0.5	SL-315-SA5B-SB-3.0-4.0	SL-316-SA5B-SS-0.0-0.5	SL-316-SA5B-SB-4.5-5.5	SL-319-SA5B-SS-0.0-0.5	SL-319-SA5B-SB-4.0-5.0	SL-321-SA5B-SS-0.0-0.5	SL-321-SA5B-SB-3.0-4.0
	Sample Date	02/08/2011	02/08/2011	02/09/2011	02/08/2011	02/08/2011	02/10/2011	02/08/2011	02/09/2011	02/09/2011	02/10/2011	02/10/2011	02/17/2011
	Lab SDG	DE078	DE078	DE079	DE078	DE078	DE080	DE078	DE079	DE079	DE080	DE080	DE084
	Start Depth	4	9	0	4	0	3	0	4.5	0	4	0	3
	End Depth	5	10	0.5	5	0.5	4	0.5	5.5	0.5	5	0.5	4
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Chrysene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	70 J	--
Chrysene (8270C SIM)	ug/kg	8.3	21	1.6 J	11	3	1.6 J	1.4 J	4.1	2.7	7.9 J	--	1.9 U
bis(2-Chloroisopropyl) ether	ug/kg	180 U	190 U	180 U	180 U	180 U	180 U	170 U	180 U	180 U	180 U	180 U	190 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	45 J	--
Benzo(a)pyrene (8270C SIM)	ug/kg	5.1	14	0.99 J	7.4	3	1.1 J	1.2 J	2.4	1.9	5.1 J	--	1.9 U
2,4-Dinitrophenol	ug/kg	1100 U	1100 U	1100 UJ	1100 U	1100 U	1100 U	1000 U	1100 UJ	1100 UJ	1100 U	1100 U	1100 U
4,6-Dinitro-2-Methylphenol	ug/kg	550 U	560 U	540 U	550 U	530 U	540 U	520 U	530 U	530 U	540 U	530 U	570 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	0.82 J	1.4 J	1.8 U	1 J	0.84 J	1.8 U	1.7 U	1.8 U	1.8 U	8.9 U	8.8 U	1.9 U
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	58 J	--
Benzo(a)anthracene (8270C SIM)	ug/kg	5	6.3	0.77 J	7.7	2.1	1.8 U	0.97 J	1.9	1.4 J	8.9 U	--	1.9 U
4-Chloro-3-Methylphenol	ug/kg	180 U	190 U	180 U	180 U	180 U	180 U	170 U	180 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	170 U	180 U	180 U	180 U	180 U	190 U
Aniline	ug/kg	550 U	560 U	540 U	550 U	530 U	540 U	520 U	530 U	530 U	540 U	530 U	570 U
Benzoic Acid	ug/kg	550 U	560 U	540 UJ	550 U	530 U	540 U	520 U	530 UJ	530 UJ	540 U	530 U	570 U
Hexachloroethane	ug/kg	180 U	190 U	180 U	180 U	180 U	180 U	170 U	180 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	170 U	180 U	180 U	180 U	180 U	190 U
Hexachlorocyclopentadiene	ug/kg	550 U	560 U	540 U	550 U	530 U	540 U	520 U	530 U	530 U	540 U	530 U	570 U
Isophorone	ug/kg	180 U	190 U	180 U	180 U	180 U	180 U	170 U	180 U	180 U	180 U	180 U	190 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	1.8 U	2.3	1.8 U	1.8 U	1.8 U	1.8 U	1.7 U	1.8 U	1.8 U	8.9 U	8.8 U	1.9 U
Diethylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	180 U	--
Diethylphthalate (8270C SIM)	ug/kg	20 U	20 U	19 U	20 U	19 U	19 U	19 U	19 U	19 U	--	--	20 U
Di-n-Butylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	180 U	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	30	9.7 J	8.7 J	8.1 J	7.9 J	19 U	7 J	9.4 J	7.2 J	--	--	20 U
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	65 J	--
Phenanthrene (8270C SIM)	ug/kg	8.7	9	1.8 U	2.3	3.1	1.8 U	1.7 U	0.82 J	1.2 J	8.9 U	--	1.9 U
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	180 U	--
Butylbenzylphthalate (8270C SIM)	ug/kg	6.7 J	8.3 J	19 U	20 U	19 U	19 U	19 U	110	19 U	--	--	20 U
N-Nitrosodiphenylamine	ug/kg	180 U	190 U	180 UJ	180 U	180 U	180 U	170 U	180 U	180 U	180 U	180 U	190 U
Fluorene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Fluorene (8270C SIM)	ug/kg	0.84 J	2.3	1.8 U	1.8 U	1.8 U	1.8 U	1.7 U	1.8 U	1.8 U	8.9 U	8.8 U	1.9 U
Carbazole	ug/kg	180 U	190 U	180 U	180 U	180 U	180 U	170 U	180 U	180 U	180 U	180 U	190 U
Pentachlorophenol	ug/kg	550 U	560 U	540 U	550 U	530 U	540 U	520 U	530 U	530 U	540 U	530 U	570 U
2,4,6-Trichlorophenol	ug/kg	180 U	190 U	180 U	180 U	180 U	180 U	170 U	180 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	170 U	180 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	170 U	180 U	180 U	180 U	180 U	190 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	1.8 U	1.1 J	1.8 U	1.8 U	1.8 U	1.8 U	1.7 U	1.8 U	1.8 U	8.9 U	8.8 U	1.9 U
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene (8270C SIM)	ug/kg	1.8 U	1.1 J	1.8 U	1.8 U	1.8 U	1.8 U	1.7 U	1.8 U	1.8 U	8.9 U	8.8 U	1.9 U
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	1.8 U	1.3 J	1.8 U	1.8 U	1.8 U	1.8 U	1.7 U	1.8 U	1.8 U	8.9 U	8.8 U	1.9 U
2-Chloronaphthalene	ug/kg	180 U	190 U	180 U	180 U	180 U	180 U	170 U	180 U	180 U	180 U	180 U	190 U
3,3`-Dichlorobenzidine	ug/kg	370 U	370 U	360 UJ	370 U	350 U	360 U	350 U	360 UJ	360 UJ	360 U	350 U	380 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-5B

	Sample Name	SL-313-SA5B-SB-4.0-5.0	SL-313-SA5B-SB-9.0-10.0	SL-314-SA5B-SS-0.0-0.5	SL-314-SA5B-SB-4.0-5.0	SL-315-SA5B-SS-0.0-0.5	SL-315-SA5B-SB-3.0-4.0	SL-316-SA5B-SS-0.0-0.5	SL-316-SA5B-SB-4.5-5.5	SL-319-SA5B-SS-0.0-0.5	SL-319-SA5B-SB-4.0-5.0	SL-321-SA5B-SS-0.0-0.5	SL-321-SA5B-SB-3.0-4.0
	Sample Date	02/08/2011	02/08/2011	02/09/2011	02/08/2011	02/08/2011	02/10/2011	02/08/2011	02/09/2011	02/09/2011	02/10/2011	02/10/2011	02/17/2011
	Lab SDG	DE078	DE078	DE079	DE078	DE078	DE080	DE078	DE079	DE079	DE080	DE080	DE084
	Start Depth	4	9	0	4	0	3	0	4.5	0	4	0	3
	End Depth	5	10	0.5	5	0.5	4	0.5	5.5	0.5	5	0.5	4
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Benzidine	ug/kg	3700 U	3700 U	3600 UJ	3700 U	3500 U	3600 U	3500 U	3600 U	3600 U	3600 U	3500 U	3800 U
2-Methylphenol	ug/kg	180 U	190 U	180 U	180 U	180 U	180 U	170 U	180 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	170 U	180 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	170 U	180 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	170 U	180 U	180 U	180 U	180 U	190 U
Benzyl Alcohol	ug/kg	550 U	560 U	540 U	550 U	530 U	540 U	520 U	530 U	530 U	540 U	530 U	570 U
2,6-Dinitrotoluene	ug/kg	180 U	190 U	180 U	180 U	180 U	180 U	170 U	180 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-5B

	Sample Name	SL-322-SA5B-SS-0.0-0.5	SL-322-SA5B-SB-3.0-4.0	SL-323-SA5B-SS-0.0-0.5	SL-323-SA5B-SB-4.0-5.0	SL-323-SA5B-SB-11.0-12.0	SL-324-SA5B-SS-0.0-0.5	SL-324-SA5B-SB-4.0-5.0	SL-324-SA5B-SB-8.0-9.0	SL-326-SA5B-SS-0.0-0.5	SL-326-SA5B-SB-9.0-10.0	SL-326-SA5B-SB-14.0-15.0	SL-326-SA5B-SB-18.5-19.5
	Sample Date	02/10/2011	02/17/2011	02/09/2011	02/15/2011	02/15/2011	02/09/2011	02/14/2011	02/14/2011	02/09/2011	02/10/2011	02/10/2011	02/10/2011
	Lab SDG	DE080	DE084	DE079	DE082	DE082	DE079	DE081	DE081	DE079	DE080	DE080	DE080
	Start Depth	0	3	0	4	11	0	4	8	0	9	14	18.5
	End Depth	0.5	4	0.5	5	12	0.5	5	9	0.5	10	15	19.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
N-Nitrosodimethylamine (1625C)	ng/kg	--	35.6 U	--	38.5 U	184 U	--	179 U	35.7 U	--	186 U	195 U	185 U
N-Nitrosodimethylamine (8270C SIM)	ug/kg	8.8 U	1.8 U	17 U	1.9 U	1.8 U	18 U	1.8 U	1.8 U	18 U	1.9 U	2 U	1.8 U
2,4-Dinitrotoluene	ug/kg	180 U	180 U	170 U	190 U	180 U	180 U	180 U	180 U	180 U	190 U	200 U	180 U
Nitrobenzene	ug/kg	180 U	180 U	170 U	190 U	180 U	180 U	180 U	180 U	180 U	190 U	200 U	180 U
1,4-Dichlorobenzene	ug/kg	180 U	180 U	170 U	190 U	180 U	180 U	180 U	180 U	180 U	190 U	200 U	180 U
1,2,4-Trichlorobenzene	ug/kg	180 U	180 U	170 U	190 U	180 U	180 U	180 U	180 U	180 U	190 U	200 U	180 U
1,3-Dichlorobenzene	ug/kg	180 U	180 U	170 U	190 U	180 U	180 U	180 U	180 U	180 U	190 U	200 U	180 U
Hexachlorobutadiene	ug/kg	180 U	180 U	170 U	190 U	180 U	180 U	180 U	180 U	180 U	190 U	200 U	180 U
1,2-Dichlorobenzene	ug/kg	180 U	180 U	170 U	190 U	180 U	180 U	180 U	180 U	180 U	190 U	200 U	180 U
4-Nitroaniline	ug/kg	180 U	180 U	170 U	190 U	180 U	180 U	180 U	180 U	180 U	190 U	200 U	180 U
4-Nitrophenol	ug/kg	530 U	530 U	520 U	580 U	550 U	530 U	530 U	530 U	530 U	560 U	590 U	550 U
4-Bromophenyl Phenyl Ether	ug/kg	180 U	180 U	170 U	190 U	180 U	180 U	180 U	180 U	180 U	190 U	200 U	180 U
2,4-Dimethylphenol	ug/kg	180 U	180 U	170 U	190 U	180 U	180 U	180 U	180 U	180 U	190 U	200 U	180 U
4-Methylphenol	ug/kg	180 U	180 U	170 U	190 U	180 U	180 U	180 U	180 U	180 U	190 U	200 U	180 U
4-Chloroaniline	ug/kg	180 U	180 U	170 U	190 U	180 U	180 U	180 U	180 U	180 U	190 U	200 U	180 U
3,5-Dimethylphenol	ug/kg	180 U	180 U	170 U	190 U	180 U	180 U	180 U	180 U	180 U	190 U	200 U	180 U
Phenol	ug/kg	180 U	180 U	170 U	190 U	180 U	180 U	180 U	180 U	180 U	190 U	200 U	180 U
Bis(2-Chloroethyl) ether	ug/kg	180 U	180 U	170 U	190 U	180 U	180 U	180 U	180 U	180 U	190 U	200 U	180 U
Bis(2-Chloroethoxy) methane	ug/kg	180 U	180 U	170 U	190 U	180 U	180 U	180 U	180 U	180 U	190 U	200 U	180 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	--	22 J	--	--	--	--	21 J	23 J	--	--	--	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	95 U	--	190 U	21 U	20 U	190 U	--	--	190 U	20 U	21 U	20 U
Di-N-Octyl Phthalate (8270C)	ug/kg	180 U	--	170 U	--	--	180 U	--	--	180 U	--	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	--	19 U	--	21 U	20 U	--	19 U	19 U	--	20 U	21 U	20 U
Hexachlorobenzene	ug/kg	180 U	180 U	170 U	190 U	180 U	180 U	180 U	180 U	180 U	190 U	200 U	180 U
Anthracene (8270C)	ug/kg	--	--	26 J	--	--	--	--	--	21 J	--	--	--
Anthracene (8270C SIM)	ug/kg	8.8 U	1.8 U	--	1.9 U	1.8 U	18 U	1.8 U	0.48 J	--	1.9 U	2 U	1.8 U
2,4-Dichlorophenol	ug/kg	180 U	180 U	170 U	190 U	180 U	180 U	180 U	180 U	180 U	190 U	200 U	180 U
1,2-Diphenylhydrazine	ug/kg	180 U	180 U	170 U	190 U	180 U	180 U	180 U	180 U	180 U	190 U	200 U	180 U
Pyrene (8270C)	ug/kg	--	--	160 J	--	--	--	--	--	110 J	--	--	--
Pyrene (8270C SIM)	ug/kg	33	1.8 U	--	2.8	1.8 U	18 U	1.8 U	3.1	--	2.5	2.6	1.4 J
Dimethylphthalate (8270C)	ug/kg	--	--	--	--	--	180 U	--	--	--	--	--	--
Dimethylphthalate (8270C SIM)	ug/kg	39 J	19 U	520	21 U	20 U	--	19 U	19 U	250	20 U	21 U	20 U
Dibenzofuran	ug/kg	180 U	180 U	170 U	190 U	180 U	180 U	180 U	180 U	180 U	190 U	200 U	180 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	87 J	--	--	--	--	--	73 J	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	12	1.8 U	--	1.9 U	1.7 J	18 U	1.8 U	1.8 U	--	1.9 U	2 U	1.8 U
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	64 J	--	--	--	--	--	82 J	--	--	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	6.2 J	1.8 U	--	1.9 U	1.8 U	18 U	1.8 U	1.8 U	--	1.9 U	2 U	1.8 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	87 J	--	--	--	--	--	110 J	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	37	1.8 U	--	1.1 J	0.78 J	8.3 J	0.85 J	2.3	--	2	1.7 J	1.3 J
Fluoranthene (8270C)	ug/kg	--	--	240	--	--	--	--	--	110 J	--	--	--
Fluoranthene (8270C SIM)	ug/kg	28	1.8 U	--	3.2	1.8 U	18 U	1.8 U	3.3	--	2.1	0.86 J	1.1 J
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	42 J	--	--	--	--	--	38 J	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	20	1.8 U	--	1.9 U	1.8 U	18 U	1.8 U	1.1 J	--	0.96 J	1.5 J	1.4 J
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	8.8 U	1.8 U	17 U	1.9 U	1.8 U	18 U	1.8 U	1.8 U	18 U	1.9 U	2 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-5B

	Sample Name	SL-322-SA5B-SS-0.0-0.5	SL-322-SA5B-SB-3.0-4.0	SL-323-SA5B-SS-0.0-0.5	SL-323-SA5B-SB-4.0-5.0	SL-323-SA5B-SB-11.0-12.0	SL-324-SA5B-SS-0.0-0.5	SL-324-SA5B-SB-4.0-5.0	SL-324-SA5B-SB-8.0-9.0	SL-326-SA5B-SS-0.0-0.5	SL-326-SA5B-SB-9.0-10.0	SL-326-SA5B-SB-14.0-15.0	SL-326-SA5B-SB-18.5-19.5
	Sample Date	02/10/2011	02/17/2011	02/09/2011	02/15/2011	02/15/2011	02/09/2011	02/14/2011	02/14/2011	02/09/2011	02/10/2011	02/10/2011	02/10/2011
	Lab SDG	DE080	DE084	DE079	DE082	DE082	DE079	DE081	DE081	DE079	DE080	DE080	DE080
	Start Depth	0	3	0	4	11	0	4	8	0	9	14	18.5
	End Depth	0.5	4	0.5	5	12	0.5	5	9	0.5	10	15	19.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Chrysene (8270C)	ug/kg	--	--	77 J	--	--	--	--	--	73 J	--	--	--
Chrysene (8270C SIM)	ug/kg	30	1.8 U	--	1.2 J	0.63 J	3.6 J	0.74 J	2.8	--	2.1	2.2	1.6 J
bis(2-Chloroisopropyl) ether	ug/kg	180 U	180 U	170 U	190 U	180 U	180 U	180 U	180 U	180 U	190 U	200 U	180 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	64 J	--	--	--	--	--	79 J	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	25	1.8 U	--	1.9 U	1.8 U	18 U	1.8 U	1.3 J	--	1.5 J	1.2 J	1.2 J
2,4-Dinitrophenol	ug/kg	1100 U	1100 U	1000 UJ	1200 U	1100 U	1100 UJ	1100 U	1100 U	1100 UJ	1100 U	1200 U	1100 U
4,6-Dinitro-2-Methylphenol	ug/kg	530 U	530 U	520 U	580 U	550 U	530 U	530 U	530 U	530 U	560 U	590 U	550 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	3.6 J	1.8 U	17 U	1.9 U	1.8 U	18 U	1.8 U	1.8 U	18 U	1.9 U	2 U	1.8 U
Benzo(a)anthracene (8270C)	ug/kg	--	--	83 J	--	--	--	--	--	60 J	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	22	1.8 U	--	1.9 U	1.8 U	18 U	1.8 U	1.5 J	--	1.6 J	2 U	1.8 U
4-Chloro-3-Methylphenol	ug/kg	180 U	180 U	170 U	190 U	180 U	180 U	180 U	180 U	180 U	190 U	200 U	180 U
N-Nitroso-Di-N-Propylamine	ug/kg	180 U	180 U	170 U	190 U	180 U	180 U	180 U	180 U	180 U	190 U	200 U	180 U
Aniline	ug/kg	530 U	530 U	520 U	580 U	550 U	530 U	530 U	530 U	530 U	560 U	590 U	550 U
Benzoic Acid	ug/kg	530 U	530 U	520 UJ	580 U	550 U	530 UJ	530 U	530 U	530 UJ	560 U	590 U	550 U
Hexachloroethane	ug/kg	180 U	180 U	170 U	190 U	180 U	180 U	180 U	180 U	180 U	190 U	200 U	180 U
4-Chlorophenyl Phenylether	ug/kg	180 U	180 U	170 U	190 U	180 U	180 U	180 U	180 U	180 U	190 U	200 U	180 U
Hexachlorocyclopentadiene	ug/kg	530 U	530 U	520 U	580 U	550 U	530 U	530 U	530 U	530 U	560 U	590 U	550 U
Isophorone	ug/kg	180 U	180 U	170 U	190 U	180 U	180 U	180 U	180 U	180 U	190 U	200 U	180 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	8.8 U	1.8 U	17 U	1.9 U	1.8 U	18 U	1.8 U	1.8 U	18 U	1.9 U	2 U	1.8 U
Diethylphthalate (8270C)	ug/kg	180 U	--	170 U	--	--	180 U	--	--	180 U	--	--	--
Diethylphthalate (8270C SIM)	ug/kg	--	19 U	--	21 U	20 U	--	19 U	19 U	--	20 U	21 U	20 U
Di-n-Butylphthalate (8270C)	ug/kg	180 U	--	170 U	--	--	180 U	--	--	180 U	--	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	--	19 U	--	21 U	20 U	--	19 U	19 U	--	20 U	21 U	20 U
Phenanthrene (8270C)	ug/kg	--	--	110 J	--	--	--	--	--	63 J	--	--	--
Phenanthrene (8270C SIM)	ug/kg	8.8 U	1.8 U	--	2.5	1.8 U	18 U	1.8 U	1.5 J	--	1.9 U	2 U	1.8 U
Butylbenzylphthalate (8270C)	ug/kg	180 U	--	--	--	--	180 U	--	--	--	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	--	19 U	130 J	21 U	20 U	--	19 U	19 U	75 J	20 U	21 U	20 U
N-Nitrosodiphenylamine	ug/kg	180 U	180 U	170 U	190 U	180 U	180 U	180 U	180 U	180 U	190 U	200 U	180 U
Fluorene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Fluorene (8270C SIM)	ug/kg	8.8 U	1.8 U	17 U	1.9 U	1.8 U	18 U	1.8 U	1.8 U	18 U	1.9 U	2 U	1.8 U
Carbazole	ug/kg	180 U	180 U	170 U	190 U	180 U	180 U	180 U	180 U	180 U	190 U	200 U	180 U
Pentachlorophenol	ug/kg	530 U	530 U	520 U	580 U	550 U	530 U	530 U	530 U	530 U	560 U	590 U	550 U
2,4,6-Trichlorophenol	ug/kg	180 U	180 U	170 U	190 U	180 U	180 U	180 U	180 U	180 U	190 U	200 U	180 U
2-Nitroaniline	ug/kg	180 U	180 U	170 U	190 U	180 U	180 U	180 U	180 U	180 U	190 U	200 U	180 U
2-Nitrophenol	ug/kg	180 U	180 U	170 U	190 U	180 U	180 U	180 U	180 U	180 U	190 U	200 U	180 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	8.8 U	1.8 U	17 U	1.9 U	1.8 U	18 U	1.8 U	1.8 U	18 U	1.9 U	2 U	1.8 U
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene (8270C SIM)	ug/kg	8.8 U	1.8 U	17 U	1.9 U	1.8 U	18 U	1.8 U	1.8 U	18 U	1.9 U	2 U	1.8 U
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	8.8 U	1.8 U	17 U	1.9 U	1.8 U	18 U	1.8 U	1.8 U	18 U	1.9 U	2 U	1.8 U
2-Chloronaphthalene	ug/kg	180 U	180 U	170 U	190 U	180 U	180 U	180 U	180 U	180 U	190 U	200 U	180 U
3,3`-Dichlorobenzidine	ug/kg	350 U	360 U	350 UJ	390 U	370 U	360 UJ	360 U	350 U	350 UJ	370 U	390 U	370 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-5B

	Sample Name	SL-322-SA5B-SS-0.0-0.5	SL-322-SA5B-SB-3.0-4.0	SL-323-SA5B-SS-0.0-0.5	SL-323-SA5B-SB-4.0-5.0	SL-323-SA5B-SB-11.0-12.0	SL-324-SA5B-SS-0.0-0.5	SL-324-SA5B-SB-4.0-5.0	SL-324-SA5B-SB-8.0-9.0	SL-326-SA5B-SS-0.0-0.5	SL-326-SA5B-SB-9.0-10.0	SL-326-SA5B-SB-14.0-15.0	SL-326-SA5B-SB-18.5-19.5
	Sample Date	02/10/2011	02/17/2011	02/09/2011	02/15/2011	02/15/2011	02/09/2011	02/14/2011	02/14/2011	02/09/2011	02/10/2011	02/10/2011	02/10/2011
	Lab SDG	DE080	DE084	DE079	DE082	DE082	DE079	DE081	DE081	DE079	DE080	DE080	DE080
	Start Depth	0	3	0	4	11	0	4	8	0	9	14	18.5
	End Depth	0.5	4	0.5	5	12	0.5	5	9	0.5	10	15	19.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Benzidine	ug/kg	3500 U	3600 U	3500 U	3900 U	3700 U	3600 U	3600 U	3500 U	3500 U	3700 U	3900 U	3700 U
2-Methylphenol	ug/kg	180 U	180 U	170 U	190 U	180 U	180 U	180 U	180 U	180 U	190 U	200 U	180 U
2-Chlorophenol	ug/kg	180 U	180 U	170 U	190 U	180 U	180 U	180 U	180 U	180 U	190 U	200 U	180 U
2,4,5-Trichlorophenol	ug/kg	180 U	180 U	170 U	190 U	180 U	180 U	180 U	180 U	180 U	190 U	200 U	180 U
3-Nitroaniline	ug/kg	180 U	180 U	170 U	190 U	180 U	180 U	180 U	180 U	180 U	190 U	200 U	180 U
Benzyl Alcohol	ug/kg	530 U	530 U	520 U	580 U	550 U	530 U	530 U	530 U	530 U	560 U	590 U	550 U
2,6-Dinitrotoluene	ug/kg	180 U	180 U	170 U	190 U	180 U	180 U	180 U	180 U	180 U	190 U	200 U	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-5B

	Sample Name	SL-327-SA5B-SS-0.0-0.5	SL-327-SA5B-SB-4.0-5.0	SL-328-SA5B-SS-0.0-0.5	SL-328-SA5B-SB-3.5-4.5	SL-329-SA5B-SS-0.0-0.5	SL-329-SA5B-SB-4.0-5.0	SL-330-SA5B-SS-0.0-0.5	SL-330-SA5B-SB-4.0-5.0	SL-331-SA5B-SS-0.0-0.5	SL-331-SA5B-SB-3.0-4.0	SL-332-SA5B-SS-0.0-0.5	SL-332-SA5B-SB-4.0-5.0
	Sample Date	02/08/2011	02/15/2011	02/08/2011	02/09/2011	02/10/2011	02/15/2011	02/10/2011	02/15/2011	02/10/2011	02/17/2011	02/10/2011	02/16/2011
	Lab SDG	DE078	DE082	DE078	DE079	DE080	DE082	DE080	DE082	DE080	DE084	DE080	DE083
	Start Depth	0	4	0	3.5	0	4	0	4	0	3	0	4
	End Depth	0.5	5	0.5	4.5	0.5	5	0.5	5	0.5	4	0.5	5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
N-Nitrosodimethylamine (1625C)	ng/kg	--	360 U	--	179 U	177 U	36.4 UJ	174 U	37.5 U	175 U	21.2 J	--	1810 U
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.7 U	1.8 U	1.7 U	18 U	1.8 U	1.8 U	8.7 U	1.9 U	8.8 U	1.8 U	11	1.8 U
2,4-Dinitrotoluene	ug/kg	170 U	180 U	170 U	180 U	180 U	180 U	170 U	190 U	170 U	180 U	180 U	180 U
Nitrobenzene	ug/kg	170 U	180 U	170 U	180 U	180 U	180 U	170 U	190 U	170 U	180 U	180 U	180 U
1,4-Dichlorobenzene	ug/kg	170 U	180 U	170 U	180 U	180 U	180 U	170 U	190 U	170 U	180 U	180 U	180 U
1,2,4-Trichlorobenzene	ug/kg	170 U	180 U	170 U	180 U	180 U	180 U	170 U	190 U	170 U	180 U	180 U	180 U
1,3-Dichlorobenzene	ug/kg	170 U	180 U	170 U	180 U	180 U	180 U	170 U	190 U	170 U	180 U	180 U	180 U
Hexachlorobutadiene	ug/kg	170 U	180 U	170 U	180 U	180 U	180 U	170 U	190 U	170 U	180 U	180 U	180 U
1,2-Dichlorobenzene	ug/kg	170 U	180 U	170 U	180 U	180 U	180 U	170 U	190 U	170 U	180 U	180 U	180 U
4-Nitroaniline	ug/kg	170 U	180 U	170 U	180 U	180 U	180 U	170 U	190 U	170 U	180 U	180 U	180 U
4-Nitrophenol	ug/kg	520 U	540 U	520 U	540 U	530 U	550 U	520 U	560 U	520 U	540 U	540 U	540 U
4-Bromophenyl Phenyl Ether	ug/kg	170 U	180 U	170 U	180 U	180 U	180 U	170 U	190 U	170 U	180 U	180 U	180 U
2,4-Dimethylphenol	ug/kg	170 U	180 U	170 U	180 U	180 U	180 U	170 U	190 U	170 U	180 U	180 U	180 U
4-Methylphenol	ug/kg	170 U	180 U	170 U	180 U	180 U	180 U	170 U	190 U	170 U	180 U	180 U	180 U
4-Chloroaniline	ug/kg	170 U	180 U	170 U	180 U	180 U	180 U	170 U	190 U	170 U	180 U	180 U	180 U
3,5-Dimethylphenol	ug/kg	170 U	180 U	170 U	180 U	180 U	180 U	170 U	190 U	170 U	180 U	180 U	180 U
Phenol	ug/kg	170 U	180 U	170 U	180 U	180 U	180 U	170 U	190 U	170 U	180 U	180 U	180 U
Bis(2-Chloroethyl) ether	ug/kg	170 U	180 U	170 U	180 U	180 U	180 U	170 U	190 U	170 U	180 U	180 U	180 U
Bis(2-Chloroethoxy) methane	ug/kg	170 U	180 U	170 U	180 U	180 U	180 U	170 U	190 U	170 U	180 U	180 U	180 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	27 J	--	32 J	360 U	--	--	--	--	--	360 U	--	--
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	--	20 U	--	--	19 U	20 U	94 U	20 U	95 U	--	97 U	20 U
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	--	180 U	--	--	170 U	--	170 U	--	180 U	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	19 U	20 U	19 U	--	19 U	20 UJ	--	20 U	--	19 U	--	20 U
Hexachlorobenzene	ug/kg	170 U	180 U	170 U	180 U	180 U	180 U	170 U	190 U	170 U	180 U	180 U	180 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	1.7 U	4.5	1.7 U	18 U	0.47 J	1.8 U	8.7 U	1.9 U	8.8 U	1.8 U	9 U	1.9
2,4-Dichlorophenol	ug/kg	170 U	180 U	170 U	180 U	180 U	180 U	170 U	190 U	170 U	180 U	180 U	180 U
1,2-Diphenylhydrazine	ug/kg	170 U	180 U	170 U	180 U	180 U	180 U	170 U	190 U	170 U	180 U	180 U	180 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--	18 J	--	--	--	75 J	--
Pyrene (8270C SIM)	ug/kg	1.8	57	1.2 J	8.1 J	17	1.8 U	--	1.9 U	6.9 J	1.8 U	--	32
Dimethylphthalate (8270C)	ug/kg	38 J	--	--	180 U	--	--	61 J	--	170 U	--	180 U	--
Dimethylphthalate (8270C SIM)	ug/kg	--	20 U	19 U	--	19 U	20 U	--	20 U	--	19 U	--	20 U
Dibenzofuran	ug/kg	170 U	180 U	170 U	180 U	180 U	180 U	170 U	190 U	170 U	180 U	180 U	180 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--	27 J	--	--	--	48 J	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	1.1 J	1.2 J	0.8 J	18 U	2.8	1.8 U	--	1.9 U	8.8 U	1.8 U	--	22
Indeno(1,2,3-Cd)Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	45 J	--
Indeno(1,2,3-Cd)Pyrene (8270C SIM)	ug/kg	1.7 U	0.96 J	1.7 U	18 U	2.9	1.8 U	8.7 U	1.9 U	8.8 U	1.8 U	--	20
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	150 J	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	2.1	11	1.7	18 U	18	1.8 U	13	1.9 U	9.5	1.8 U	--	97
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	30 J	--
Fluoranthene (8270C SIM)	ug/kg	1.6 J	37	1.1 J	18 U	13	1.8 U	6.5 J	1.9 U	4.7 J	1.8 U	--	21
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	62 J	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	1.1 J	4.4	0.86 J	18 U	7.2	1.8 U	7.7 J	1.9 U	5.8 J	1.8 U	--	42
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	1.7 U	3.6	1.7 U	18 U	1.8 U	1.8 U	8.7 U	1.9 U	8.8 U	1.8 U	9 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-5B

	Sample Name	SL-327-SA5B-SS-0.0-0.5	SL-327-SA5B-SB-4.0-5.0	SL-328-SA5B-SS-0.0-0.5	SL-328-SA5B-SB-3.5-4.5	SL-329-SA5B-SS-0.0-0.5	SL-329-SA5B-SB-4.0-5.0	SL-330-SA5B-SS-0.0-0.5	SL-330-SA5B-SB-4.0-5.0	SL-331-SA5B-SS-0.0-0.5	SL-331-SA5B-SB-3.0-4.0	SL-332-SA5B-SS-0.0-0.5	SL-332-SA5B-SB-4.0-5.0
	Sample Date	02/08/2011	02/15/2011	02/08/2011	02/09/2011	02/10/2011	02/15/2011	02/10/2011	02/15/2011	02/10/2011	02/17/2011	02/10/2011	02/16/2011
	Lab SDG	DE078	DE082	DE078	DE079	DE080	DE082	DE080	DE082	DE080	DE084	DE080	DE083
	Start Depth	0	4	0	3.5	0	4	0	4	0	3	0	4
	End Depth	0.5	5	0.5	4.5	0.5	5	0.5	5	0.5	4	0.5	5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Chrysene (8270C)	ug/kg	--	--	--	--	--	--	18 J	--	--	--	130 J	--
Chrysene (8270C SIM)	ug/kg	1.4 J	17	1.1 J	18 U	13	1.8 UJ	--	1.9 U	5.2 J	1.8 U	--	60
bis(2-Chloroisopropyl) ether	ug/kg	170 U	180 U	170 U	180 U	180 U	180 U	170 U	190 U	170 U	180 U	180 U	180 U
Benzo(a)pyrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	120 J	--
Benzo(a)pyrene (8270C SIM)	ug/kg	1 J	3.8	0.77 J	18 U	12	1.8 UJ	8.9	1.9 U	5.9 J	1.8 U	--	75
2,4-Dinitrophenol	ug/kg	1000 U	1100 U	1000 U	1100 UJ	1100 U	1100 U	1000 U	1100 U	1000 U	1100 U	1100 U	1100 U
4,6-Dinitro-2-Methylphenol	ug/kg	520 U	540 U	520 U	540 U	530 U	550 U	520 U	560 U	520 U	540 U	540 U	540 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	19 J	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	1.7 U	1.8 U	1.7 U	18 U	0.99 J	1.8 U	8.7 U	1.9 U	8.8 U	1.8 U	--	7.6
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	97 J	--
Benzo(a)anthracene (8270C SIM)	ug/kg	0.97 J	8	0.83 J	18 U	13	1.8 U	4.1 J	1.9 U	5.1 J	1.8 U	--	64
4-Chloro-3-Methylphenol	ug/kg	170 U	180 U	170 U	180 U	180 U	180 U	170 U	190 U	170 U	180 U	180 U	180 U
N-Nitroso-Di-N-Propylamine	ug/kg	170 U	180 U	170 U	180 U	180 U	180 U	170 U	190 U	170 U	180 U	180 U	180 U
Aniline	ug/kg	520 U	540 U	520 U	540 U	530 U	550 U	520 U	560 U	520 U	540 U	540 U	540 U
Benzoic Acid	ug/kg	520 U	540 U	520 U	540 UJ	530 U	550 U	520 U	560 U	520 U	540 U	540 U	540 U
Hexachloroethane	ug/kg	170 U	180 U	170 U	180 U	180 U	180 U	170 U	190 U	170 U	180 U	180 U	180 U
4-Chlorophenyl Phenylether	ug/kg	170 U	180 U	170 U	180 U	180 U	180 U	170 U	190 U	170 U	180 U	180 U	180 U
Hexachlorocyclopentadiene	ug/kg	520 U	540 U	520 U	540 U	530 U	550 U	520 U	560 U	520 U	540 U	540 U	540 U
Isophorone	ug/kg	170 U	180 U	170 U	180 U	180 U	180 U	170 U	190 U	170 U	180 U	180 U	180 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	1.7 U	1.8 U	1.7 U	18 U	1.8 U	1.8 U	8.7 U	1.9 U	8.8 U	1.8 U	9 U	1.8 U
Diethylphthalate (8270C)	ug/kg	--	--	--	180 U	--	--	170 U	--	170 U	--	180 U	--
Diethylphthalate (8270C SIM)	ug/kg	19 U	20 U	19 U	--	19 U	20 U	--	20 U	--	19 U	--	20 U
Di-n-Butylphthalate (8270C)	ug/kg	--	--	--	180 U	--	--	170 U	--	170 U	--	180 U	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	8 J	20 U	7.8 J	--	7.3 J	20 U	--	20 U	--	19 U	--	20 U
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	1.6 J	2.6	0.75 J	18 U	1.1 J	1.8 U	8.7 U	1.9 U	8.8 U	1.8 U	9 U	1.2 J
Butylbenzylphthalate (8270C)	ug/kg	--	--	--	180 U	--	--	170 U	--	170 U	--	180 U	--
Butylbenzylphthalate (8270C SIM)	ug/kg	19 U	20 U	19 U	--	19 U	20 UJ	--	20 U	--	19 U	--	18 J
N-Nitrosodiphenylamine	ug/kg	170 U	180 U	170 U	180 U	180 U	180 U	170 U	190 U	170 U	180 U	180 U	180 U
Fluorene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Fluorene (8270C SIM)	ug/kg	1.7 U	1.8 U	1.7 U	18 U	1.8 U	1.8 U	8.7 U	1.9 U	8.8 U	1.8 U	9 U	1.8 U
Carbazole	ug/kg	170 U	180 U	170 U	180 U	180 U	180 U	170 U	190 U	170 U	180 U	180 U	180 U
Pentachlorophenol	ug/kg	520 U	540 U	520 U	540 U	530 U	550 U	520 U	560 U	520 U	540 U	540 U	540 U
2,4,6-Trichlorophenol	ug/kg	170 U	180 U	170 U	180 U	180 U	180 U	170 U	190 U	170 U	180 U	180 U	180 U
2-Nitroaniline	ug/kg	170 U	180 U	170 U	180 U	180 U	180 U	170 U	190 U	170 U	180 U	180 U	180 U
2-Nitrophenol	ug/kg	170 U	180 U	170 U	180 U	180 U	180 U	170 U	190 U	170 U	180 U	180 U	180 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	1.7 U	1.8 U	1.7 U	18 U	1.8 U	1.8 U	8.7 U	1.9 U	8.8 U	1.8 U	9 U	1.8 U
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene (8270C SIM)	ug/kg	1.7 U	1.8 U	1.7 U	18 U	1.8 U	1.8 U	8.7 U	1.9 U	8.8 U	1.8 U	9 U	1.8 U
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	1.7 U	1.8 U	1.7 U	18 U	1.8 U	1.8 U	8.7 U	1.9 U	8.8 U	1.8 U	9 U	1.8 U
2-Chloronaphthalene	ug/kg	170 U	180 U	170 U	180 U	180 U	180 U	170 U	190 U	170 U	180 U	180 U	180 U
3,3`-Dichlorobenzidine	ug/kg	350 U	360 U	350 U	360 UJ	350 U	360 U	350 U	370 U	350 U	360 U	360 U	360 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-5B

	Sample Name	SL-327-SA5B-SS-0.0-0.5	SL-327-SA5B-SB-4.0-5.0	SL-328-SA5B-SS-0.0-0.5	SL-328-SA5B-SB-3.5-4.5	SL-329-SA5B-SS-0.0-0.5	SL-329-SA5B-SB-4.0-5.0	SL-330-SA5B-SS-0.0-0.5	SL-330-SA5B-SB-4.0-5.0	SL-331-SA5B-SS-0.0-0.5	SL-331-SA5B-SB-3.0-4.0	SL-332-SA5B-SS-0.0-0.5	SL-332-SA5B-SB-4.0-5.0
	Sample Date	02/08/2011	02/15/2011	02/08/2011	02/09/2011	02/10/2011	02/15/2011	02/10/2011	02/15/2011	02/10/2011	02/17/2011	02/10/2011	02/16/2011
	Lab SDG	DE078	DE082	DE078	DE079	DE080	DE082	DE080	DE082	DE080	DE084	DE080	DE083
	Start Depth	0	4	0	3.5	0	4	0	4	0	3	0	4
	End Depth	0.5	5	0.5	4.5	0.5	5	0.5	5	0.5	4	0.5	5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Benzidine	ug/kg	3500 U	3600 U	3500 U	3600 U	3500 U	3600 UJ	3500 U	3700 U	3500 U	3600 U	3600 U	3600 U
2-Methylphenol	ug/kg	170 U	180 U	170 U	180 U	180 U	180 U	170 U	190 U	170 U	180 U	180 U	180 U
2-Chlorophenol	ug/kg	170 U	180 U	170 U	180 U	180 U	180 U	170 U	190 U	170 U	180 U	180 U	180 U
2,4,5-Trichlorophenol	ug/kg	170 U	180 U	170 U	180 U	180 U	180 U	170 U	190 U	170 U	180 U	180 U	180 U
3-Nitroaniline	ug/kg	170 U	180 U	170 U	180 U	180 U	180 U	170 U	190 U	170 U	180 U	180 U	180 U
Benzyl Alcohol	ug/kg	520 U	540 U	520 U	540 U	530 U	550 U	520 U	560 U	520 U	540 U	540 U	540 U
2,6-Dinitrotoluene	ug/kg	170 U	180 U	170 U	180 U	180 U	180 U	170 U	190 U	170 U	180 U	180 U	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-5B

	Sample Name	SL-333-SA5B-SS-0.0-0.5	SL-333-SA5B-SB-4.0-5.0	SL-334-SA5B-SS-0.0-0.5	SL-335-SA5B-SS-0.0-0.5	SL-335-SA5B-SB-2.0-3.0	SL-336-SA5B-SB-4.0-5.0	SL-337-SA5B-SB-3.0-4.0
	Sample Date	02/10/2011	02/16/2011	02/10/2011	02/10/2011	02/16/2011	02/17/2011	02/17/2011
	Lab SDG	DE080	DE083	DE080	DE080	DE083	DE084	DE084
	Start Depth	0	4	0	0	2	4	3
	End Depth	0.5	5	0.5	0.5	3	5	4
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result
N-Nitrosodimethylamine (1625C)	ng/kg	--	38 U	--	--	36 U	24.7 J	25.3 J
N-Nitrosodimethylamine (8270C SIM)	ug/kg	1.8 U	1.9 U	9.4 U	1.8 U	1.8 U	1.9 U	1.9 U
2,4-Dinitrotoluene	ug/kg	170 U	190 U	190 U	180 U	180 U	190 U	190 U
Nitrobenzene	ug/kg	170 U	190 U	190 U	180 U	180 U	190 U	190 U
1,4-Dichlorobenzene	ug/kg	170 U	190 U	190 U	180 U	180 U	190 U	190 U
1,2,4-Trichlorobenzene	ug/kg	170 U	190 U	190 U	180 U	180 U	190 U	190 U
1,3-Dichlorobenzene	ug/kg	170 U	190 U	190 U	180 U	180 U	190 U	190 U
Hexachlorobutadiene	ug/kg	170 U	190 U	190 U	180 U	180 U	190 U	190 U
1,2-Dichlorobenzene	ug/kg	170 U	190 U	190 U	180 U	180 U	190 U	190 U
4-Nitroaniline	ug/kg	170 U	190 U	190 U	180 U	180 U	190 U	190 U
4-Nitrophenol	ug/kg	520 U	570 U	560 U	550 U	550 U	580 U	570 U
4-Bromophenyl Phenyl Ether	ug/kg	170 U	190 U	190 U	180 U	180 U	190 U	190 U
2,4-Dimethylphenol	ug/kg	170 U	190 U	190 U	180 U	180 U	190 U	190 U
4-Methylphenol	ug/kg	170 U	190 U	190 U	180 U	180 U	190 U	190 U
4-Chloroaniline	ug/kg	170 U	190 U	190 U	180 U	180 U	190 U	190 U
3,5-Dimethylphenol	ug/kg	170 U	190 U	190 U	180 U	180 U	190 U	190 U
Phenol	ug/kg	170 U	190 U	190 U	180 U	180 U	190 U	190 U
Bis(2-Chloroethyl) ether	ug/kg	170 U	190 U	190 U	180 U	180 U	190 U	190 U
Bis(2-Chloroethoxy) methane	ug/kg	170 U	190 U	190 U	180 U	180 U	190 U	190 U
Bis(2-Ethylhexyl) phthalate (8270C)	ug/kg	--	--	--	--	--	21 J	19 J
Bis(2-Ethylhexyl) phthalate (8270C SIM)	ug/kg	19 U	21 U	100 U	20 U	20 U	--	--
Di-N-Octyl Phthalate (8270C)	ug/kg	--	--	--	--	--	--	--
Di-N-Octyl Phthalate (8270C SIM)	ug/kg	19 UJ	21 U	35 J	20 U	20 U	20 U	20 U
Hexachlorobenzene	ug/kg	170 U	190 U	190 U	180 U	180 U	190 U	190 U
Anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Anthracene (8270C SIM)	ug/kg	1.8 U	0.62 J	9.4 U	1.8 U	1.8 U	1.9 U	1.9 U
2,4-Dichlorophenol	ug/kg	170 U	190 U	190 U	180 U	180 U	190 U	190 U
1,2-Diphenylhydrazine	ug/kg	170 U	190 U	190 U	180 U	180 U	190 U	190 U
Pyrene (8270C)	ug/kg	--	--	--	--	--	--	--
Pyrene (8270C SIM)	ug/kg	1.3 J	2.6	6.5 J	1.8 U	1.8 U	1.9 U	1.9 U
Dimethylphthalate (8270C)	ug/kg	--	--	190 U	--	--	--	--
Dimethylphthalate (8270C SIM)	ug/kg	19 U	21 U	--	20 U	20 U	20 U	20 U
Dibenzofuran	ug/kg	170 U	190 U	190 U	180 U	180 U	190 U	190 U
Benzo(g,h,i)perylene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(g,h,i)perylene (8270C SIM)	ug/kg	0.83 J	1.1 J	6.5 J	1.8 U	1.8 U	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	1.9 U	9.4 U	1.8 U	1.8 U	1.9 U	1.9 U
Benzo(b)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(b)fluoranthene (8270C SIM)	ug/kg	1.9 J	1.7 J	7.3 J	1.7 J	1.8 U	0.76 J	1.9 U
Fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--
Fluoranthene (8270C SIM)	ug/kg	1.1 J	3.1	9.4 U	1.8 U	1.8 U	1.9 U	1.9 U
Benzo(k)fluoranthene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(k)fluoranthene (8270C SIM)	ug/kg	0.89 J	0.79 J	14	1.3 J	1.8 U	1.9 U	1.9 U
Acenaphthylene (8270C)	ug/kg	--	--	--	--	--	--	--
Acenaphthylene (8270C SIM)	ug/kg	1.8 U	1.9 U	9.4 U	1.8 U	1.8 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-5B

	Sample Name	SL-333-SA5B-SS-0.0-0.5	SL-333-SA5B-SB-4.0-5.0	SL-334-SA5B-SS-0.0-0.5	SL-335-SA5B-SS-0.0-0.5	SL-335-SA5B-SB-2.0-3.0	SL-336-SA5B-SB-4.0-5.0	SL-337-SA5B-SB-3.0-4.0
	Sample Date	02/10/2011	02/16/2011	02/10/2011	02/10/2011	02/16/2011	02/17/2011	02/17/2011
	Lab SDG	DE080	DE083	DE080	DE080	DE083	DE084	DE084
	Start Depth	0	4	0	0	2	4	3
	End Depth	0.5	5	0.5	0.5	3	5	4
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result
Chrysene (8270C)	ug/kg	--	--	--	--	--	--	--
Chrysene (8270C SIM)	ug/kg	1.3 J	1.7 J	11	0.64 J	1.8 U	0.66 J	0.41 J
bis(2-Chloroisopropyl) ether	ug/kg	170 U	190 U	190 U	180 U	180 U	190 U	190 U
Benzo(a)pyrene (8270C)	ug/kg	--	20 J	--	--	--	--	--
Benzo(a)pyrene (8270C SIM)	ug/kg	1.1 J	--	11	0.86 J	1.8 U	1.9 U	1.9 U
2,4-Dinitrophenol	ug/kg	1000 U	1100 U	1100 U	1100 U	1100 U	1200 U	1100 U
4,6-Dinitro-2-Methylphenol	ug/kg	520 U	570 U	560 U	550 U	550 U	580 U	570 U
Dibenzo(a,h)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene (8270C SIM)	ug/kg	1.8 U	1.9 U	9.4 U	1.8 U	1.8 U	1.9 U	1.9 U
Benzo(a)anthracene (8270C)	ug/kg	--	--	--	--	--	--	--
Benzo(a)anthracene (8270C SIM)	ug/kg	0.89 J	0.82 J	9.4 U	1.8 U	1.8 U	1.9 U	1.9 U
4-Chloro-3-Methylphenol	ug/kg	170 U	190 U	190 U	180 U	180 U	190 U	190 U
N-Nitroso-Di-N-Propylamine	ug/kg	170 U	190 U	190 U	180 U	180 U	190 U	190 U
Aniline	ug/kg	520 U	570 U	560 U	550 U	550 U	580 U	570 U
Benzoic Acid	ug/kg	520 U	570 U	560 U	550 U	550 U	580 U	570 U
Hexachloroethane	ug/kg	170 U	190 U	190 U	180 U	180 U	190 U	190 U
4-Chlorophenyl Phenylether	ug/kg	170 U	190 U	190 U	180 U	180 U	190 U	190 U
Hexachlorocyclopentadiene	ug/kg	520 U	570 U	560 U	550 U	550 U	580 U	570 U
Isophorone	ug/kg	170 U	190 U	190 U	180 U	180 U	190 U	190 U
Acenaphthene (8270C)	ug/kg	--	--	--	--	--	--	--
Acenaphthene (8270C SIM)	ug/kg	1.8 U	1.9 U	9.4 U	1.8 U	1.8 U	1.9 U	1.9 U
Diethylphthalate (8270C)	ug/kg	--	--	190 U	--	--	--	--
Diethylphthalate (8270C SIM)	ug/kg	19 U	21 U	--	20 U	20 U	20 U	20 U
Di-n-Butylphthalate (8270C)	ug/kg	--	--	190 U	--	180 U	--	--
Di-n-Butylphthalate (8270C SIM)	ug/kg	19 UJ	21 U	--	20 U	--	20 U	20 U
Phenanthrene (8270C)	ug/kg	--	--	--	--	--	--	--
Phenanthrene (8270C SIM)	ug/kg	1.8 U	1.9 U	5.1 J	1.8 U	1.8 U	1.9 U	1.9 U
Butylbenzylphthalate (8270C)	ug/kg	--	--	190 U	--	--	--	--
Butylbenzylphthalate (8270C SIM)	ug/kg	19 U	7.2 J	--	20 U	20 U	20 U	20 U
N-Nitrosodiphenylamine	ug/kg	170 U	190 U	190 U	180 U	180 U	190 U	190 U
Fluorene (8270C)	ug/kg	--	--	--	--	--	--	--
Fluorene (8270C SIM)	ug/kg	1.8 U	1.9 U	9.4 U	1.8 U	1.8 U	1.9 U	1.9 U
Carbazole	ug/kg	170 U	190 U	190 U	180 U	180 U	190 U	190 U
Pentachlorophenol	ug/kg	520 U	570 U	560 U	550 U	550 U	580 U	570 U
2,4,6-Trichlorophenol	ug/kg	170 U	190 U	190 U	180 U	180 U	190 U	190 U
2-Nitroaniline	ug/kg	170 U	190 U	190 U	180 U	180 U	190 U	190 U
2-Nitrophenol	ug/kg	170 U	190 U	190 U	180 U	180 U	190 U	190 U
1-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
1-Methylnaphthalene (8270C SIM)	ug/kg	1.8 U	1.9 U	9.4 U	1.8 U	1.8 U	1.9 U	1.9 U
Naphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
Naphthalene (8270C SIM)	ug/kg	1.8 U	1.9 U	9.4 U	1.8 U	1.8 U	1.9 U	1.9 U
2-Methylnaphthalene (8270C)	ug/kg	--	--	--	--	--	--	--
2-Methylnaphthalene (8270C SIM)	ug/kg	1.8 U	1.9 U	9.4 U	1.8 U	1.8 U	1.9 U	1.9 U
2-Chloronaphthalene	ug/kg	170 U	190 U	190 U	180 U	180 U	190 U	190 U
3,3`-Dichlorobenzidine	ug/kg	350 U	380 U	370 U	360 U	360 U	380 U	380 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-5B

	Sample Name	SL-333-SA5B-SS-0.0-0.5	SL-333-SA5B-SB-4.0-5.0	SL-334-SA5B-SS-0.0-0.5	SL-335-SA5B-SS-0.0-0.5	SL-335-SA5B-SB-2.0-3.0	SL-336-SA5B-SB-4.0-5.0	SL-337-SA5B-SB-3.0-4.0
	Sample Date	02/10/2011	02/16/2011	02/10/2011	02/10/2011	02/16/2011	02/17/2011	02/17/2011
	Lab SDG	DE080	DE083	DE080	DE080	DE083	DE084	DE084
	Start Depth	0	4	0	0	2	4	3
	End Depth	0.5	5	0.5	0.5	3	5	4
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result
Benzidine	ug/kg	3500 U	3800 U	3700 U	3600 U	3600 U	3800 U	3800 U
2-Methylphenol	ug/kg	170 U	190 U	190 U	180 U	180 U	190 U	190 U
2-Chlorophenol	ug/kg	170 U	190 U	190 U	180 U	180 U	190 U	190 U
2,4,5-Trichlorophenol	ug/kg	170 U	190 U	190 U	180 U	180 U	190 U	190 U
3-Nitroaniline	ug/kg	170 U	190 U	190 U	180 U	180 U	190 U	190 U
Benzyl Alcohol	ug/kg	520 U	570 U	560 U	550 U	550 U	580 U	570 U
2,6-Dinitrotoluene	ug/kg	170 U	190 U	190 U	180 U	180 U	190 U	190 U

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

Appendix A7
Volatile Organics - Validated Data
HSA-5B

	Sample Name	SL-006-SA5B-SB-4.0-5.0	SL-006-SA5B-SB-5.0-6.0	SL-011-SA5B-SS-0.0-0.5	SL-014-SA5B-SS-0.0-0.5	SL-014-SA5B-SB-4.0-5.0	SL-015-SA5B-SB-4.0-5.0	SL-016-SA5B-SB-4.0-5.0	SL-016-SA5B-SB-9.0-10.0	SL-017-SA5B-SS-0.0-0.5	SL-017-SA5B-SB-4.0-5.0	SL-017-SA5B-SB-9.0-10.0	SL-018-SA5B-SS-0.0-0.5	SL-018-SA5B-SB-4.0-5.0
	Sample Date	12/21/2010	12/21/2010	12/09/2010	12/09/2010	01/20/2011	01/26/2011	01/26/2011	01/26/2011	12/08/2010	01/27/2011	01/27/2011	12/09/2010	01/26/2011
	Lab SDG	DE049	DE049	DE032	DE032	DE065	DE069	DE069	DE069	DE033	DE070	DE070	DE032	DE069
	Start Depth	4	5	0	0	4	4	4	9	0	4	9	0	4
	End Depth	5	6	0.5	0.5	5	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
GRO (C5-C12)	mg/kg	1.2 U	1.2 U	1 U	1 U	1.1 U	1 U	0.9 U	0.9 U	1 U	1 U	0.9 U	1 U	1 U
EFH (C15-C20)	mg/kg	1.3 U	1.5 U	--	--	27 U	0.58 J	0.95 J	3 J	1.5	6.9 U	0.55 J	--	0.82 J
EFH (C21-C30)	mg/kg	3.1	2.4	--	--	50	18	11	41	14	28	18	--	5.4
EFH (C30-C40)	mg/kg	10	4.3	--	--	120	38	18	73	37	78	25	--	17
EFH (C8-C11)	mg/kg	1.3 U	1.5 U	--	--	27 U	1.4 U	1.4 U	6.6 U	1.3 U	6.9 U	1.3 U	--	1.4 U
1,4-Dichlorobenzene	ug/kg	4.4 U	4.4 U	4.2 U	4.1 U	4.7 U	4.2 U	3.9 U	3.8 U	4 U	4.1 U	4 U	3.8 U	4.1 UJ
1,2,4-Trichlorobenzene	ug/kg	4.4 U	4.4 U	4.2 U	4.1 U	4.7 U	4.2 U	3.9 U	3.8 U	4 U	4.1 U	4 U	3.8 U	4.1 UJ
1,3-Dichlorobenzene	ug/kg	4.4 U	4.4 U	4.2 U	4.1 U	4.7 U	4.2 U	3.9 U	3.8 U	4 U	4.1 U	4 U	3.8 U	4.1 UJ
Hexachlorobutadiene	ug/kg	4.4 U	4.4 U	4.2 U	4.1 U	4.7 U	4.2 U	3.9 U	3.8 U	4 U	4.1 U	4 U	3.8 U	4.1 UJ
1,2-Dichlorobenzene	ug/kg	4.4 U	4.4 U	4.2 U	4.1 U	4.7 U	4.2 U	3.9 U	3.8 U	4 U	4.1 U	4 U	3.8 U	4.1 UJ
Isopropyltoluene	ug/kg	4.4 U	4.4 U	4.2 U	4.1 U	4.7 U	4.2 U	3.9 U	3.8 U	4 U	4.1 U	4 U	3.8 U	4.1 UJ
Ethylbenzene	ug/kg	4.4 U	4.4 U	4.2 U	4.1 U	4.7 U	4.2 U	3.9 U	3.8 U	4 U	4.1 U	4 U	3.8 U	4.1 UJ
Styrene	ug/kg	4.4 U	4.4 U	4.2 U	4.1 U	4.7 U	4.2 U	3.9 U	3.8 U	4 U	4.1 U	4 U	3.8 U	4.1 UJ
cis-1,3-Dichloropropene	ug/kg	4.4 U	4.4 U	4.2 U	4.1 U	4.7 U	4.2 U	3.9 U	3.8 U	4 U	4.1 U	4 U	3.8 U	4.1 UJ
trans-1,3-Dichloropropene	ug/kg	4.4 U	4.4 U	4.2 U	4.1 U	4.7 U	4.2 U	3.9 U	3.8 U	4 U	4.1 U	4 U	3.8 U	4.1 UJ
N-Propylbenzene	ug/kg	4.4 U	4.4 U	4.2 U	4.1 U	4.7 U	4.2 U	3.9 U	3.8 U	4 U	4.1 U	4 U	3.8 U	4.1 UJ
N-Butylbenzene	ug/kg	4.4 U	4.4 U	4.2 U	4.1 U	4.7 U	4.2 U	3.9 U	3.8 U	4 U	4.1 U	4 U	3.8 U	4.1 UJ
4-Chlorotoluene	ug/kg	4.4 U	4.4 U	4.2 U	4.1 U	4.7 U	4.2 U	3.9 U	3.8 U	4 U	4.1 U	4 U	3.8 U	4.1 UJ
1,2-Dibromoethane	ug/kg	4.4 U	4.4 U	4.2 U	4.1 U	4.7 U	4.2 U	3.9 U	3.8 U	4 U	4.1 U	4 U	3.8 U	4.1 UJ
1,2-Dichloroethane	ug/kg	4.4 U	4.4 U	4.2 U	4.1 U	4.7 U	4.2 U	3.9 U	3.8 U	4 U	4.1 U	4 U	3.8 U	4.1 UJ
4-Methyl-2-Pentanone	ug/kg	8.7 U	8.9 U	8.3 U	8.2 U	9.5 U	8.4 U	7.8 U	7.7 U	7.9 U	8.2 U	8 U	7.6 U	8.1 UJ
1,3,5-Trimethylbenzene	ug/kg	4.4 U	4.4 U	4.2 U	4.1 U	4.7 U	4.2 U	3.9 U	3.8 U	4 U	4.1 U	4 U	3.8 U	4.1 UJ
Bromobenzene	ug/kg	4.4 U	4.4 U	4.2 U	4.1 U	4.7 U	4.2 U	3.9 U	3.8 U	4 U	4.1 U	4 U	3.8 U	4.1 UJ
Toluene	ug/kg	4.4 U	4.4 U	4.2 U	4.1 U	4.7 U	4.2 U	3.9 U	3.8 U	4 U	4.1 U	4 U	3.8 U	4.1 UJ
Chlorobenzene	ug/kg	4.4 U	4.4 U	4.2 U	4.1 U	4.7 U	4.2 U	3.9 U	3.8 U	4 U	4.1 U	4 U	3.8 U	4.1 UJ
2-Chloroethyl Vinyl Ether	ug/kg	4.4 U	4.4 U	4.2 U	4.1 U	4.7 U	4.2 U	3.9 U	3.8 U	4 U	4.1 U	4 U	3.8 U	4.1 UJ
1,4-Dioxane	ug/kg	17 U	16 U	16 U	15 U	18 U	14 U	15 U	13 U	14 U	14 U	13 U	15 U	14 U
Dibromochloromethane	ug/kg	4.4 U	4.4 U	4.2 U	4.1 U	4.7 U	4.2 U	3.9 U	3.8 U	4 U	4.1 U	4 U	3.8 U	4.1 UJ
Tetrachloroethene	ug/kg	4.4 U	4.4 U	4.2 U	4.1 U	4.7 U	4.2 U	3.9 U	3.8 U	4 U	4.1 U	4 U	3.8 U	4.1 UJ
sec-Butylbenzene	ug/kg	4.4 U	4.4 U	4.2 U	4.1 U	4.7 U	4.2 U	3.9 U	3.8 U	4 U	4.1 U	4 U	3.8 U	4.1 UJ
1,3-Dichloropropane	ug/kg	4.4 U	4.4 U	4.2 U	4.1 U	4.7 U	4.2 U	3.9 U	3.8 U	4 U	4.1 U	4 U	3.8 U	4.1 UJ
cis-1,2-Dichloroethene	ug/kg	4.4 U	4.4 U	4.2 U	4.1 U	4.7 U	4.2 U	3.9 U	3.8 U	4 U	4.1 U	4 U	3.8 U	4.1 UJ
trans-1,2-Dichloroethene	ug/kg	4.4 U	4.4 U	4.2 U	4.1 U	4.7 U	4.2 U	3.9 U	3.8 U	4 U	4.1 U	4 U	3.8 U	4.1 UJ
Methyl tert-Butyl Ether	ug/kg	4.4 U	4.4 UJ	4.2 U	4.1 U	4.7 U	4.2 U	3.9 U	3.8 U	4 U	4.1 U	4 U	3.8 U	4.1 UJ
m,p-Xylene	ug/kg	4.4 U	4.4 U	4.2 U	4.1 U	4.7 U	4.2 U	3.9 U	3.8 U	4 U	4.1 U	4 U	3.8 U	4.1 UJ
Carbon tetrachloride	ug/kg	4.4 U	4.4 U	4.2 U	4.1 U	4.7 U	4.2 U	3.9 U	3.8 U	4 U	4.1 U	4 U	3.8 U	4.1 UJ
1,1-Dichloropropene	ug/kg	4.4 U	4.4 U	4.2 U	4.1 U	4.7 U	4.2 U	3.9 U	3.8 U	4 U	4.1 U	4 U	3.8 U	4.1 UJ
2-Hexanone	ug/kg	8.7 UJ	8.9 UJ	8.3 U	8.2 U	9.5 U	8.4 U	7.8 U	7.7 U	7.9 U	8.2 U	8 U	7.6 U	8.1 UJ
2,2-Dichloropropane	ug/kg	4.4 U	4.4 U	4.2 U	4.1 U	4.7 U	4.2 U	3.9 U	3.8 U	4 U	4.1 U	4 U	3.8 U	4.1 UJ
1,1,1,2-Tetrachloroethane	ug/kg	4.4 U	4.4 U	4.2 U	4.1 U	4.7 U	4.2 U	3.9 U	3.8 U	4 U	4.1 U	4 U	3.8 U	4.1 UJ
Acetone	ug/kg	8.7 U	18	8.3 U	8.2 U	9.5 U	8.4 U	7.8 U	7.7 U	7.9 U	8.2 U	12	7.6 U	8.1 UJ
Chloroform	ug/kg	4.4 U	4.4 U	4.2 U	4.1 U	4.7 U	4.2 U	3.9 U	3.8 U	4 U	4.1 U	4 U	3.8 U	4.1 UJ
Benzene	ug/kg	4.4 U	4.4 U	4.2 U	4.1 U	4.7 U	4.2 U	3.9 U	0.1 J	4 U	4.1 U	4 U	3.8 U	4.1 UJ
1,1,1-Trichloroethane	ug/kg	4.4 U	4.4 U	4.2 U	4.1 U	4.7 U	4.2 U	3.9 U	3.8 U	4 U	4.1 U	4 U	3.8 U	4.1 UJ
Bromomethane	ug/kg	4.4 U	4.4 U	4.2 U	4.1 U	4.7 U	4.2 U	3.9 U	3.8 U	4 U	4.1 U	4 U	3.8 U	4.1 UJ

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

Appendix A7
Volatile Organics - Validated Data
HSA-5B

	Sample Name	SL-006-SA5B-SB-4.0-5.0	SL-006-SA5B-SB-5.0-6.0	SL-011-SA5B-SS-0.0-0.5	SL-014-SA5B-SS-0.0-0.5	SL-014-SA5B-SB-4.0-5.0	SL-015-SA5B-SB-4.0-5.0	SL-016-SA5B-SB-4.0-5.0	SL-016-SA5B-SB-9.0-10.0	SL-017-SA5B-SS-0.0-0.5	SL-017-SA5B-SB-4.0-5.0	SL-017-SA5B-SB-9.0-10.0	SL-018-SA5B-SS-0.0-0.5	SL-018-SA5B-SB-4.0-5.0
	Sample Date	12/21/2010	12/21/2010	12/09/2010	12/09/2010	01/20/2011	01/26/2011	01/26/2011	01/26/2011	12/08/2010	01/27/2011	01/27/2011	12/09/2010	01/26/2011
	Lab SDG	DE049	DE049	DE032	DE032	DE065	DE069	DE069	DE069	DE033	DE070	DE070	DE032	DE069
	Start Depth	4	5	0	0	4	4	4	9	0	4	9	0	4
	End Depth	5	6	0.5	0.5	5	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
Chloromethane	ug/kg	4.4 U	4.4 U	4.2 U	4.1 U	4.7 U	4.2 U	3.9 U	3.8 U	4 U	4.1 U	4 U	3.8 U	4.1 UJ
Dibromomethane	ug/kg	4.4 U	4.4 U	4.2 U	4.1 U	4.7 U	4.2 U	3.9 U	3.8 U	4 U	4.1 U	4 U	3.8 U	4.1 UJ
Bromochloromethane	ug/kg	4.4 U	4.4 U	4.2 U	4.1 U	4.7 U	4.2 U	3.9 U	3.8 U	4 U	4.1 U	4 U	3.8 U	4.1 UJ
Chloroethane	ug/kg	4.4 U	4.4 U	4.2 U	4.1 U	4.7 U	4.2 U	3.9 U	3.8 U	4 U	4.1 U	4 U	3.8 U	4.1 UJ
Vinyl Chloride	ug/kg	4.4 U	4.4 U	4.2 U	4.1 U	4.7 U	4.2 U	3.9 U	3.8 U	4 U	4.1 U	4 U	3.8 U	4.1 UJ
Methylene chloride	ug/kg	4.4 U	4.4 U	4.2 U	4.1 U	4.7 U	4.2 U	3.9 U	3.8 U	4 U	4.1 U	4 U	3.8 U	4.1 UJ
Bromoform	ug/kg	4.4 U	4.4 U	4.2 U	4.1 U	4.7 U	4.2 U	3.9 U	3.8 U	4 U	4.1 U	4 U	3.8 U	4.1 UJ
Bromodichloromethane	ug/kg	4.4 U	4.4 U	4.2 U	4.1 U	4.7 U	4.2 U	3.9 U	3.8 U	4 U	4.1 U	4 U	3.8 U	4.1 UJ
1,1-Dichloroethane	ug/kg	4.4 U	4.4 U	4.2 U	4.1 U	4.7 U	4.2 U	3.9 U	3.8 U	4 U	4.1 U	4 U	3.8 U	4.1 UJ
1,1-Dichloroethene	ug/kg	4.4 U	4.4 U	4.2 U	4.1 U	4.7 U	4.2 U	3.9 U	3.8 U	4 U	4.1 U	4 U	3.8 U	4.1 UJ
Trichlorofluoromethane	ug/kg	4.4 U	4.4 U	4.2 U	4.1 U	4.7 U	4.2 U	3.9 U	3.8 U	4 U	4.1 U	4 U	3.8 U	4.1 UJ
Dichlorodifluoromethane	ug/kg	4.4 U	4.4 U	4.2 U	4.1 U	4.7 U	4.2 U	3.9 U	3.8 U	4 U	4.1 U	4 U	3.8 U	4.1 UJ
Freon 113a	ug/kg	5.5 U	5.5 U	5.2 U	5.1 U	5.9 U	5.2 U	4.9 U	4.8 U	4.9 U	5.1 U	5 U	4.8 U	5.1 UJ
Freon 113	ug/kg	4.4 U	4.4 U	4.2 U	4.1 U	4.7 U	4.2 U	3.9 U	3.8 U	4 U	4.1 U	4 U	3.8 U	4.1 UJ
1,2-Dichloropropane	ug/kg	4.4 U	4.4 U	4.2 U	4.1 U	4.7 U	4.2 U	3.9 U	3.8 U	4 U	4.1 U	4 U	3.8 U	4.1 UJ
2-Butanone	ug/kg	8.7 U	4.4 J	8.3 U	8.2 U	9.5 U	8.4 U	7.8 U	7.7 U	7.9 U	8.2 U	1.4 J	7.6 U	8.1 UJ
1,1,2-Trichloroethane	ug/kg	4.4 U	4.4 U	4.2 U	4.1 U	4.7 U	4.2 U	3.9 U	3.8 U	4 U	4.1 U	4 U	3.8 U	4.1 UJ
Trichloroethene	ug/kg	4.4 U	4.4 U	4.2 U	4.1 U	4.7 U	4.2 U	3.9 U	3.8 U	4 U	4.1 U	4 U	3.8 U	4.1 UJ
1,1,2,2-Tetrachloroethane	ug/kg	4.4 U	4.4 U	4.2 U	4.1 U	4.7 U	4.2 U	3.9 U	3.8 U	4 U	4.1 U	4 U	3.8 U	4.1 UJ
Chlorotrifluoroethene	ug/kg	5.5 UJ	5.5 U	5.2 U	5.1 U	5.9 U	5.2 U	4.9 U	4.8 U	4.9 U	5.1 U	5 U	4.8 U	5.1 UJ
1,2,3-Trichlorobenzene	ug/kg	4.4 U	4.4 U	4.2 U	4.1 U	4.7 U	4.2 U	3.9 U	3.8 U	4 U	4.1 U	4 U	3.8 U	4.1 UJ
o-Xylene	ug/kg	4.4 U	4.4 U	4.2 U	4.1 U	4.7 U	4.2 U	3.9 U	3.8 U	4 U	4.1 U	4 U	3.8 U	4.1 UJ
2-Chlorotoluene	ug/kg	4.4 U	4.4 U	4.2 U	4.1 U	4.7 U	4.2 U	3.9 U	3.8 U	4 U	4.1 U	4 U	3.8 U	4.1 UJ
1,2,4-Trimethylbenzene	ug/kg	4.4 U	4.4 U	4.2 U	4.1 U	4.7 U	4.2 U	3.9 U	3.8 U	4 U	4.1 U	4 U	3.8 U	4.1 UJ
1,2-Dibromo-3-chloropropane	ug/kg	4.4 U	4.4 U	4.2 U	4.1 U	4.7 U	4.2 U	3.9 U	3.8 U	4 U	4.1 U	4 U	3.8 U	4.1 UJ
1,2,3-Trichloropropane	ug/kg	4.4 U	4.4 U	4.2 U	4.1 U	4.7 U	4.2 U	3.9 U	3.8 U	4 U	4.1 U	4 U	3.8 U	4.1 UJ
tert-Butylbenzene	ug/kg	4.4 U	4.4 U	4.2 U	4.1 U	4.7 U	4.2 U	3.9 U	3.8 U	4 U	4.1 U	4 U	3.8 U	4.1 UJ
Isopropylbenzene	ug/kg	4.4 U	4.4 U	4.2 U	4.1 U	4.7 U	4.2 U	3.9 U	3.8 U	4 U	4.1 U	4 U	3.8 U	4.1 UJ

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

Appendix A7
Volatile Organics - Validated Data
HSA-5B

	Sample Name	SL-018-SA5B-SB-9.0-10.0	SL-019-SA5B-SB-4.0-5.0	SL-020-SA5B-SS-0.0-0.5	SL-021-SA5B-SB-4.0-5.0	SL-021-SA5B-SB-9.0-10.0	SL-022-SA5B-SS-0.0-0.5	SL-022-SA5B-SB-2.0-3.0	SL-024-SA5B-SB-4.0-5.0	SL-025-SA5B-SB-4.0-5.0	SL-026-SA5B-SB-4.0-5.0	SL-026-SA5B-SB-9.0-10	SL-027-SA5B-SB-4.0-5.0	SL-027-SA5B-SB-8.0-9.0
	Sample Date	01/26/2011	01/20/2011	12/09/2010	01/27/2011	01/27/2011	12/08/2010	01/19/2011	01/19/2011	01/19/2011	12/17/2010	12/17/2010	12/15/2010	12/15/2010
	Lab SDG	DE069	DE065	DE032	DE070	DE070	DE032	DE064	DE064	DE064	DE045	DE045	DE041	DE041
	Start Depth	9	4	0	4	9	0	2	4	4	4	9	4	8
	End Depth	10	5	0.5	5	10	0.5	3	5	5	5	10	5	9
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
GRO (C5-C12)	mg/kg	1 U	1.2 U	1 U	0.9 U	0.9 U	0.9 U	1.2 U	--	--	1.1 U	1 U	1.2 U	1.2 U
EFH (C15-C20)	mg/kg	1.3 U	1.3 U	--	27 U	3.9	8.3 J	1.2 U	--	--	1.1 J	1.3 U	1.9	1.3 U
EFH (C21-C30)	mg/kg	0.54 J	1.3 U	--	49	22	36	1.2 U	--	--	2.5	1.2 J	19	3.5
EFH (C30-C40)	mg/kg	0.93 J	1.3 U	--	150	55	110	1.2 U	--	--	4.2	1.1 J	37	9.2
EFH (C8-C11)	mg/kg	1.3 U	1.3 U	--	27 U	2.7 U	13 U	1.2 UJ	--	--	1.3 U	1.3 U	1.4 U	1.3 U
1,4-Dichlorobenzene	ug/kg	4.5 U	4.1 U	4.2 U	4 U	3.9 U	3.9 U	4.1 U	4.1 U	4 U	4.7 U	3.9 U	4.6 U	4.4 U
1,2,4-Trichlorobenzene	ug/kg	4.5 U	4.1 U	4.2 U	4 U	3.9 U	3.9 U	4.1 U	4.1 U	4 U	4.7 U	3.9 U	4.6 U	4.4 U
1,3-Dichlorobenzene	ug/kg	4.5 U	4.1 U	4.2 U	4 U	3.9 U	3.9 U	4.1 U	4.1 U	4 U	4.7 U	3.9 U	4.6 U	4.4 U
Hexachlorobutadiene	ug/kg	4.5 U	4.1 U	4.2 U	4 U	3.9 U	3.9 U	4.1 U	4.1 U	4 U	4.7 U	3.9 U	4.6 U	4.4 U
1,2-Dichlorobenzene	ug/kg	4.5 U	4.1 U	4.2 U	4 U	3.9 U	3.9 U	4.1 U	4.1 U	4 U	4.7 U	3.9 U	4.6 U	4.4 U
Isopropyltoluene	ug/kg	4.5 U	4.1 U	4.2 U	4 U	3.9 U	3.9 U	4.1 U	4.1 U	4 U	4.7 U	3.9 U	4.6 U	4.4 U
Ethylbenzene	ug/kg	4.5 U	4.1 U	4.2 U	4 U	3.9 U	3.9 U	4.1 U	4.1 U	4 U	4.7 U	3.9 U	4.6 U	4.4 U
Styrene	ug/kg	4.5 U	4.1 U	4.2 U	4 U	3.9 U	3.9 U	4.1 U	4.1 U	4 U	4.7 U	3.9 U	4.6 U	4.4 U
cis-1,3-Dichloropropene	ug/kg	4.5 U	4.1 U	4.2 U	4 U	3.9 U	3.9 U	4.1 U	4.1 U	4 U	4.7 U	3.9 U	4.6 U	4.4 U
trans-1,3-Dichloropropene	ug/kg	4.5 U	4.1 U	4.2 U	4 U	3.9 U	3.9 U	4.1 U	4.1 U	4 U	4.7 U	3.9 U	4.6 U	4.4 U
N-Propylbenzene	ug/kg	4.5 U	4.1 U	4.2 U	4 U	3.9 U	3.9 U	4.1 U	4.1 U	4 U	4.7 U	3.9 U	4.6 U	4.4 U
N-Butylbenzene	ug/kg	4.5 U	4.1 U	4.2 U	4 U	3.9 U	3.9 U	4.1 U	4.1 U	4 U	4.7 U	3.9 U	4.6 U	4.4 U
4-Chlorotoluene	ug/kg	4.5 U	4.1 U	4.2 U	4 U	3.9 U	3.9 U	4.1 U	4.1 U	4 U	4.7 U	3.9 U	4.6 U	4.4 U
1,2-Dibromoethane	ug/kg	4.5 U	4.1 U	4.2 U	4 U	3.9 U	3.9 U	4.1 U	4.1 U	4 U	4.7 U	3.9 U	4.6 U	4.4 U
1,2-Dichloroethane	ug/kg	4.5 U	4.1 U	4.2 U	4 U	3.9 U	3.9 U	4.1 U	4.1 U	4 U	4.7 U	3.9 U	4.6 U	4.4 U
4-Methyl-2-Pentanone	ug/kg	9 U	8.3 U	8.3 U	8 U	7.7 U	7.8 U	8.3 U	8.2 U	8 U	9.4 U	7.8 U	9.1 U	8.8 U
1,3,5-Trimethylbenzene	ug/kg	4.5 U	4.1 U	4.2 U	4 U	3.9 U	3.9 U	4.1 U	4.1 U	4 U	4.7 U	3.9 U	4.6 U	4.4 U
Bromobenzene	ug/kg	4.5 U	4.1 U	4.2 U	4 U	3.9 U	3.9 U	4.1 U	4.1 U	4 U	4.7 U	3.9 U	4.6 U	4.4 U
Toluene	ug/kg	4.5 U	4.1 U	4.2 U	4 U	3.9 U	3.9 U	4.1 U	4.1 U	4 U	4.7 U	3.9 U	4.6 U	4.4 U
Chlorobenzene	ug/kg	4.5 U	4.1 U	4.2 U	4 U	3.9 U	3.9 U	4.1 U	4.1 U	4 U	4.7 U	3.9 U	4.6 U	4.4 U
2-Chloroethyl Vinyl Ether	ug/kg	4.5 U	4.1 U	4.2 U	4 U	3.9 U	3.9 U	4.1 U	4.1 U	4 U	4.7 U	3.9 U	4.6 U	4.4 U
1,4-Dioxane	ug/kg	16 U	16 U	15 U	14 U	13 U	13 U	16 U	14 U	14 U	14 U	14 U	17 U	16 U
Dibromochloromethane	ug/kg	4.5 U	4.1 U	4.2 U	4 U	3.9 U	3.9 U	4.1 U	4.1 U	4 U	4.7 U	3.9 U	4.6 U	4.4 U
Tetrachloroethene	ug/kg	4.5 U	4.1 U	4.2 U	4 U	3.9 U	3.9 U	4.1 U	4.1 U	4 U	4.7 U	3.9 U	4.6 U	4.4 U
sec-Butylbenzene	ug/kg	4.5 U	4.1 U	4.2 U	4 U	3.9 U	3.9 U	4.1 U	4.1 U	4 U	4.7 U	3.9 U	4.6 U	4.4 U
1,3-Dichloropropane	ug/kg	4.5 U	4.1 U	4.2 U	4 U	3.9 U	3.9 U	4.1 U	4.1 U	4 U	4.7 U	3.9 U	4.6 U	4.4 U
cis-1,2-Dichloroethene	ug/kg	4.5 U	4.1 U	4.2 U	4 U	3.9 U	3.9 U	4.1 U	4.1 U	4 U	4.7 U	3.9 U	4.6 U	4.4 U
trans-1,2-Dichloroethene	ug/kg	4.5 U	4.1 U	4.2 U	4 U	3.9 U	3.9 U	4.1 U	4.1 U	4 U	4.7 U	3.9 U	4.6 U	4.4 U
Methyl tert-Butyl Ether	ug/kg	4.5 U	4.1 U	4.2 U	4 U	3.9 U	3.9 U	4.1 U	4.1 U	4 U	4.7 U	3.9 U	4.6 U	4.4 U
m,p-Xylene	ug/kg	4.5 U	4.1 U	4.2 U	4 U	3.9 U	3.9 U	4.1 U	4.1 U	4 U	4.7 U	3.9 U	4.6 U	4.4 U
Carbon tetrachloride	ug/kg	4.5 U	4.1 U	4.2 U	4 U	3.9 U	3.9 U	4.1 U	4.1 U	4 U	4.7 U	3.9 U	4.6 U	4.4 U
1,1-Dichloropropene	ug/kg	4.5 U	4.1 U	4.2 U	4 U	3.9 U	3.9 U	4.1 U	4.1 U	4 U	4.7 U	3.9 U	4.6 U	4.4 U
2-Hexanone	ug/kg	9 U	8.3 U	8.3 U	8 U	7.7 U	7.8 U	8.3 U	8.2 U	8 U	9.4 U	7.8 U	9.1 U	8.8 U
2,2-Dichloropropane	ug/kg	4.5 U	4.1 U	4.2 U	4 U	3.9 U	3.9 U	4.1 U	4.1 U	4 U	4.7 U	3.9 U	4.6 U	4.4 U
1,1,1,2-Tetrachloroethane	ug/kg	4.5 U	4.1 U	4.2 U	4 U	3.9 U	3.9 U	4.1 U	4.1 U	4 U	4.7 U	3.9 U	4.6 U	4.4 U
Acetone	ug/kg	9 U	8.3 U	11	8 U	19	7.8 U	8.3 U	8.2 U	8 U	9.4 U	12	50	26
Chloroform	ug/kg	4.5 U	4.1 U	4.2 U	4 U	3.9 U	3.9 U	4.1 U	4.1 U	4 U	4.7 U	3.9 U	4.6 U	4.4 U
Benzene	ug/kg	4.5 U	4.1 U	4.2 U	4 U	3.9 U	3.9 U	4.1 U	4.1 U	4 U	4.7 U	3.9 U	4.6 U	4.4 U
1,1,1-Trichloroethane	ug/kg	4.5 U	4.1 U	4.2 U	4 U	3.9 U	3.9 U	4.1 U	4.1 U	4 U	4.7 U	3.9 U	4.6 U	4.4 U
Bromomethane	ug/kg	4.5 U	4.1 U	4.2 U	4 U	3.9 U	3.9 U	4.1 U	4.1 U	4 U	4.7 U	3.9 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
Volatile Organics - Validated Data
HSA-5B

		Sample Name	SL-018-SA5B-SB-9.0-10.0	SL-019-SA5B-SB-4.0-5.0	SL-020-SA5B-SS-0.0-0.5	SL-021-SA5B-SB-4.0-5.0	SL-021-SA5B-SB-9.0-10.0	SL-022-SA5B-SS-0.0-0.5	SL-022-SA5B-SB-2.0-3.0	SL-024-SA5B-SB-4.0-5.0	SL-025-SA5B-SB-4.0-5.0	SL-026-SA5B-SB-4.0-5.0	SL-026-SA5B-SB-9.0-10	SL-027-SA5B-SB-4.0-5.0	SL-027-SA5B-SB-8.0-9.0
		Sample Date	01/26/2011	01/20/2011	12/09/2010	01/27/2011	01/27/2011	12/08/2010	01/19/2011	01/19/2011	01/19/2011	12/17/2010	12/17/2010	12/15/2010	12/15/2010
		Lab SDG	DE069	DE065	DE032	DE070	DE070	DE032	DE064	DE064	DE064	DE045	DE045	DE041	DE041
		Start Depth	9	4	0	4	9	0	2	4	4	4	9	4	8
		End Depth	10	5	0.5	5	10	0.5	3	5	5	5	10	5	9
Chemical Name	Unit		Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Chloromethane	ug/kg		4.5 U	4.1 U	4.2 U	4 U	3.9 U	3.9 U	4.1 U	4.1 U	4 U	4.7 U	3.9 U	4.6 U	4.4 U
Dibromomethane	ug/kg		4.5 U	4.1 U	4.2 U	4 U	3.9 U	3.9 U	4.1 U	4.1 U	4 U	4.7 U	3.9 U	4.6 U	4.4 U
Bromochloromethane	ug/kg		4.5 U	4.1 U	4.2 U	4 U	3.9 U	3.9 U	4.1 U	4.1 U	4 U	4.7 U	3.9 U	4.6 U	4.4 U
Chloroethane	ug/kg		4.5 U	4.1 U	4.2 U	4 U	3.9 U	3.9 U	4.1 U	4.1 U	4 U	4.7 U	3.9 U	4.6 U	4.4 U
Vinyl Chloride	ug/kg		4.5 U	4.1 U	4.2 U	4 U	3.9 U	3.9 U	4.1 U	4.1 U	4 U	4.7 U	3.9 U	4.6 U	4.4 U
Methylene chloride	ug/kg		4.5 U	4.1 U	4.2 U	4 U	3.9 U	3.9 UJ	4.1 U	4.1 U	4 U	4.7 U	3.9 U	4.6 U	4.4 U
Bromoform	ug/kg		4.5 U	4.1 U	4.2 U	4 U	3.9 U	3.9 U	4.1 U	4.1 U	4 U	4.7 U	3.9 U	4.6 U	4.4 U
Bromodichloromethane	ug/kg		4.5 U	4.1 U	4.2 U	4 U	3.9 U	3.9 U	4.1 U	4.1 U	4 U	4.7 U	3.9 U	4.6 U	4.4 U
1,1-Dichloroethane	ug/kg		4.5 U	4.1 U	4.2 U	4 U	3.9 U	3.9 U	4.1 U	4.1 U	4 U	4.7 U	3.9 U	4.6 U	4.4 U
1,1-Dichloroethene	ug/kg		4.5 U	4.1 U	4.2 U	4 U	3.9 U	3.9 U	4.1 U	4.1 U	4 U	4.7 U	3.9 U	4.6 U	4.4 U
Trichlorofluoromethane	ug/kg		4.5 U	4.1 U	4.2 U	4 U	3.9 U	3.9 U	4.1 U	4.1 U	4 U	4.7 U	3.9 U	4.6 U	4.4 U
Dichlorodifluoromethane	ug/kg		4.5 U	4.1 U	4.2 U	4 U	3.9 U	3.9 U	4.1 U	4.1 U	4 U	4.7 U	3.9 U	4.6 U	4.4 U
Freon 113a	ug/kg		5.6 U	5.2 U	5.2 U	5 U	4.8 U	4.8 U	5.2 U	5.1 U	5 U	5.8 U	4.9 U	5.7 U	5.5 U
Freon 113	ug/kg		4.5 U	4.1 U	4.2 U	4 U	3.9 U	3.9 U	4.1 U	4.1 U	4 U	4.7 U	3.9 U	4.6 U	4.4 U
1,2-Dichloropropane	ug/kg		4.5 U	4.1 U	4.2 U	4 U	3.9 U	3.9 U	4.1 U	4.1 U	4 U	4.7 U	3.9 U	4.6 U	4.4 U
2-Butanone	ug/kg		9 U	8.3 U	8.3 U	8 U	1.9 J	7.8 U	8.3 U	8.2 U	8 U	9.4 U	7.8 U	7.7 J	2.7 J
1,1,2-Trichloroethane	ug/kg		4.5 U	4.1 U	4.2 U	4 U	3.9 U	3.9 U	4.1 U	4.1 U	4 U	4.7 U	3.9 U	4.6 U	4.4 U
Trichloroethene	ug/kg		4.5 U	4.1 U	4.2 U	4 U	3.9 U	3.9 U	4.1 U	4.1 U	4 U	4.7 U	3.9 U	4.6 U	4.4 U
1,1,2,2-Tetrachloroethane	ug/kg		4.5 U	4.1 U	4.2 U	4 U	3.9 U	3.9 U	4.1 U	4.1 U	4 U	4.7 U	3.9 U	4.6 U	4.4 U
Chlorotrifluoroethene	ug/kg		5.6 U	5.2 U	5.2 U	5 U	4.8 U	4.8 U	5.2 U	5.1 U	5 U	5.8 U	4.9 U	5.7 U	5.5 U
1,2,3-Trichlorobenzene	ug/kg		4.5 U	4.1 U	4.2 U	4 U	3.9 U	3.9 U	4.1 U	4.1 U	4 U	4.7 U	3.9 U	4.6 U	4.4 U
o-Xylene	ug/kg		4.5 U	4.1 U	4.2 U	4 U	3.9 U	3.9 U	4.1 U	4.1 U	4 U	4.7 U	3.9 U	4.6 U	4.4 U
2-Chlorotoluene	ug/kg		4.5 U	4.1 U	4.2 U	4 U	3.9 U	3.9 U	4.1 U	4.1 U	4 U	4.7 U	3.9 U	4.6 U	4.4 U
1,2,4-Trimethylbenzene	ug/kg		4.5 U	4.1 U	4.2 U	4 U	3.9 U	3.9 U	4.1 U	4.1 U	4 U	4.7 U	3.9 U	4.6 U	4.4 U
1,2-Dibromo-3-chloropropane	ug/kg		4.5 U	4.1 U	4.2 U	4 U	3.9 U	3.9 U	4.1 U	4.1 U	4 U	4.7 U	3.9 U	4.6 U	4.4 U
1,2,3-Trichloropropane	ug/kg		4.5 U	4.1 U	4.2 U	4 U	3.9 U	3.9 U	4.1 U	4.1 U	4 U	4.7 U	3.9 U	4.6 U	4.4 U
tert-Butylbenzene	ug/kg		4.5 U	4.1 U	4.2 U	4 U	3.9 U	3.9 U	4.1 U	4.1 U	4 U	4.7 U	3.9 U	4.6 U	4.4 U
Isopropylbenzene	ug/kg		4.5 U	4.1 U	4.2 U	4 U	3.9 U	3.9 U	4.1 U	4.1 U	4 U	4.7 U	3.9 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
Volatile Organics - Validated Data
HSA-5B

	Sample Name	SL-029-SA5B-SB-4.0-5.0	SL-029-SA5B-SB-9.0-10.0	SL-030-SA5B-SB-4.0-5.0	SL-030-SA5B-SB-9.0-10.0	SL-031-SA5B-SB-4.0-5.0	SL-032-SA5B-SB-4.0-5.0	SL-032-SA5B-SB-9.0-10.0	SL-032-SA5B-SB-14.0-15.0	SL-033-SA5B-SB-4.0-5.0	SL-033-SA5B-SB-9.0-10.0	SL-033-SA5B-SB-14.0-15.0	SL-034-SA5B-SB-4.0-5.0	SL-034-SA5B-SB-9.0-10.0
	Sample Date	01/20/2011	01/20/2011	01/20/2011	01/20/2011	01/19/2011	01/24/2011	01/24/2011	01/24/2011	01/24/2011	01/24/2011	01/24/2011	01/20/2011	01/20/2011
	Lab SDG	DE065	DE065	DE065	DE065	DE064	DE067	DE067	DE067	DE067	DE067	DE067	DE065	DE065
	Start Depth	4	9	4	9	4	4	9	14	4	9	14	4	9
	End Depth	5	10	5	10	5	5	10	15	5	10	15	5	10
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
GRO (C5-C12)	mg/kg	1 U	1 U	0.9 U	0.9 U	--	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	1 U	1 U
EFH (C15-C20)	mg/kg	1.8 J	2.2	14 U	14 U	--	1.7	0.77 J	1.4 U	1.3 U	2.9	1.9	27 U	2.8
EFH (C21-C30)	mg/kg	26	20	37	62	--	9.9	15	1.4 U	2.9 J	9.7	3.3	78	26
EFH (C30-C40)	mg/kg	69	32	220	130	--	22	38	0.77 J	7 J	23	5.8	200	46
EFH (C8-C11)	mg/kg	2.7 U	1.4 U	14 U	14 U	--	1.3 U	1.3 U	1.4 U	1.3 U	1.3 U	1.3 U	27 U	1.3 U
1,4-Dichlorobenzene	ug/kg	4.4 U	3.9 U	4.1 U	4 U	3.9 U	4 U	3.6 U	3.4 U	3.7 U	4 U	4.1 U	4 U	4 U
1,2,4-Trichlorobenzene	ug/kg	4.4 U	3.9 U	4.1 U	4 U	3.9 U	4 U	3.6 U	3.4 U	3.7 U	4 U	4.1 U	4 U	4 U
1,3-Dichlorobenzene	ug/kg	4.4 U	3.9 U	4.1 U	4 U	3.9 U	4 U	3.6 U	3.4 U	3.7 U	4 U	4.1 U	4 U	4 U
Hexachlorobutadiene	ug/kg	4.4 U	3.9 U	4.1 U	4 U	3.9 U	4 U	3.6 U	3.4 U	3.7 U	4 U	4.1 U	4 U	4 U
1,2-Dichlorobenzene	ug/kg	4.4 U	3.9 U	4.1 U	4 U	3.9 U	4 U	3.6 U	3.4 U	3.7 U	4 U	4.1 U	4 U	4 U
Isopropyltoluene	ug/kg	4.4 U	3.9 U	4.1 U	4 U	3.9 U	4 U	3.6 U	3.4 U	3.7 U	0.18 J	4.1 U	4 U	4 U
Ethylbenzene	ug/kg	4.4 U	3.9 U	4.1 U	4 U	3.9 U	4 U	3.6 U	3.4 U	3.7 U	0.29 J	4.1 U	4 U	4 U
Styrene	ug/kg	4.4 U	3.9 U	4.1 U	4 U	3.9 U	4 U	3.6 U	3.4 U	3.7 U	4 U	4.1 U	4 U	4 U
cis-1,3-Dichloropropene	ug/kg	4.4 U	3.9 U	4.1 U	4 U	3.9 U	4 U	3.6 U	3.4 U	3.7 U	4 U	4.1 U	4 U	4 U
trans-1,3-Dichloropropene	ug/kg	4.4 U	3.9 U	4.1 U	4 U	3.9 U	4 U	3.6 U	3.4 U	3.7 U	4 U	4.1 U	4 U	4 U
N-Propylbenzene	ug/kg	4.4 U	3.9 U	4.1 U	4 U	3.9 U	4 U	3.6 U	3.4 U	3.7 U	0.09 J	4.1 U	4 U	4 U
N-Butylbenzene	ug/kg	4.4 U	3.9 U	4.1 U	4 U	3.9 U	4 U	3.6 U	3.4 U	3.7 U	4 U	4.1 U	4 U	4 U
4-Chlorotoluene	ug/kg	4.4 U	3.9 U	4.1 U	4 U	3.9 U	4 U	3.6 U	3.4 U	3.7 U	4 U	4.1 U	4 U	4 U
1,2-Dibromoethane	ug/kg	4.4 U	3.9 U	4.1 U	4 U	3.9 U	4 U	3.6 U	3.4 U	3.7 U	0.42 J	4.1 U	4 U	4 U
1,2-Dichloroethane	ug/kg	4.4 U	3.9 U	4.1 U	4 U	3.9 U	4 U	3.6 U	3.4 U	3.7 U	4 U	4.1 U	4 U	4 U
4-Methyl-2-Pentanone	ug/kg	8.8 U	7.8 U	8.1 U	8.1 U	7.9 U	8 U	7.1 U	6.8 U	7.4 U	7.9 U	8.1 U	8 U	7.9 U
1,3,5-Trimethylbenzene	ug/kg	4.4 U	3.9 U	4.1 U	4 U	3.9 U	4 U	3.6 U	3.4 U	3.7 U	4 U	4.1 U	4 U	4 U
Bromobenzene	ug/kg	4.4 U	3.9 U	4.1 U	4 U	3.9 U	4 U	3.6 U	3.4 U	3.7 U	4 U	4.1 U	4 U	4 U
Toluene	ug/kg	4.4 U	3.9 U	4.1 U	4 U	3.9 U	4 U	3.6 U	3.4 U	3.7 U	4 U	4.1 U	4 U	4 U
Chlorobenzene	ug/kg	4.4 U	3.9 U	4.1 U	4 U	3.9 U	4 U	3.6 U	3.4 U	3.7 U	4 U	4.1 U	4 U	4 U
2-Chloroethyl Vinyl Ether	ug/kg	4.4 U	3.9 U	4.1 U	4 U	3.9 U	4 U	3.6 U	3.4 U	3.7 U	4 U	4.1 U	4 U	4 U
1,4-Dioxane	ug/kg	14 U	13 U	17 U	15 U	14 U	15 U	14 U	14 U	14 U	15 U	16 U	16 U	14 U
Dibromochloromethane	ug/kg	4.4 U	3.9 U	4.1 U	4 U	3.9 U	4 U	3.6 U	3.4 U	3.7 U	4 U	4.1 U	4 U	4 U
Tetrachloroethene	ug/kg	4.4 U	3.9 U	4.1 U	4 U	3.9 U	4 U	3.6 U	3.4 U	3.7 U	4 U	4.1 U	4 U	4 U
sec-Butylbenzene	ug/kg	4.4 U	3.9 U	4.1 U	4 U	3.9 U	4 U	3.6 U	3.4 U	3.7 U	0.08 J	4.1 U	4 U	4 U
1,3-Dichloropropane	ug/kg	4.4 U	3.9 U	4.1 U	4 U	3.9 U	4 U	3.6 U	3.4 U	3.7 U	4 U	4.1 U	4 U	4 U
cis-1,2-Dichloroethene	ug/kg	4.4 U	3.9 U	4.1 U	4 U	3.9 U	4 U	3.6 U	3.4 U	3.7 U	4 U	4.1 U	4 U	4 U
trans-1,2-Dichloroethene	ug/kg	4.4 U	3.9 U	4.1 U	4 U	3.9 U	4 U	3.6 U	3.4 U	3.7 U	4 U	4.1 U	4 U	4 U
Methyl tert-Butyl Ether	ug/kg	4.4 U	3.9 U	4.1 U	4 U	3.9 U	4 U	3.6 U	3.4 U	3.7 U	4 U	4.1 U	4 U	4 U
m,p-Xylene	ug/kg	4.4 U	3.9 U	4.1 U	4 U	3.9 U	4 U	3.6 U	3.4 U	3.7 U	4 U	4.1 U	4 U	4 U
Carbon tetrachloride	ug/kg	4.4 U	3.9 U	4.1 U	4 U	3.9 U	4 U	3.6 U	3.4 U	3.7 U	4 U	4.1 U	4 U	4 U
1,1-Dichloropropene	ug/kg	4.4 U	3.9 U	4.1 U	4 U	3.9 U	4 U	3.6 U	3.4 U	3.7 U	4 U	4.1 U	4 U	4 U
2-Hexanone	ug/kg	8.8 U	7.8 U	8.1 U	8.1 U	7.9 U	8 U	7.1 U	6.8 U	7.4 U	7.9 U	8.1 U	8 U	7.9 U
2,2-Dichloropropane	ug/kg	4.4 U	3.9 U	4.1 U	4 U	3.9 U	4 U	3.6 U	3.4 U	3.7 U	4 U	4.1 U	4 U	4 U
1,1,1,2-Tetrachloroethane	ug/kg	4.4 U	3.9 U	4.1 U	4 U	3.9 U	4 U	3.6 U	3.4 U	3.7 U	4 U	4.1 U	4 U	4 U
Acetone	ug/kg	8.8 U	8.6	8.1 U	12	7.9 U	73	54	12	7.4 U	110	33	8 U	14
Chloroform	ug/kg	4.4 U	3.9 U	4.1 U	4 U	3.9 U	4 U	3.6 U	3.4 U	3.7 U	4 U	4.1 U	4 U	4 U
Benzene	ug/kg	4.4 U	3.9 U	4.1 U	4 U	3.9 U	4 U	3.6 U	3.4 U	3.7 U	0.1 J	4.1 U	4 U	0.13 J
1,1,1-Trichloroethane	ug/kg	4.4 U	3.9 U	4.1 U	4 U	3.9 U	4 U	3.6 U	3.4 U	3.7 U	4 U	4.1 U	4 U	4 U
Bromomethane	ug/kg	4.4 U	3.9 U	4.1 U	4 U	3.9 U	4 U	3.6 U	3.4 U	3.7 U	4 U	4.1 U	4 U	4 U

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

Appendix A7
Volatile Organics - Validated Data
HSA-5B

	Sample Name	SL-029-SA5B-SB-4.0-5.0	SL-029-SA5B-SB-9.0-10.0	SL-030-SA5B-SB-4.0-5.0	SL-030-SA5B-SB-9.0-10.0	SL-031-SA5B-SB-4.0-5.0	SL-032-SA5B-SB-4.0-5.0	SL-032-SA5B-SB-9.0-10.0	SL-032-SA5B-SB-14.0-15.0	SL-033-SA5B-SB-4.0-5.0	SL-033-SA5B-SB-9.0-10.0	SL-033-SA5B-SB-14.0-15.0	SL-034-SA5B-SB-4.0-5.0	SL-034-SA5B-SB-9.0-10.0
	Sample Date	01/20/2011	01/20/2011	01/20/2011	01/20/2011	01/19/2011	01/24/2011	01/24/2011	01/24/2011	01/24/2011	01/24/2011	01/24/2011	01/20/2011	01/20/2011
	Lab SDG	DE065	DE065	DE065	DE065	DE064	DE067	DE067	DE067	DE067	DE067	DE067	DE065	DE065
	Start Depth	4	9	4	9	4	4	9	14	4	9	14	4	9
	End Depth	5	10	5	10	5	5	10	15	5	10	15	5	10
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Chloromethane	ug/kg	4.4 U	3.9 U	4.1 U	4 U	3.9 U	4 U	3.6 U	3.4 U	3.7 U	4 U	4.1 U	4 U	4 U
Dibromomethane	ug/kg	4.4 U	3.9 U	4.1 U	4 U	3.9 U	4 U	3.6 U	3.4 U	3.7 U	4 U	4.1 U	4 U	4 U
Bromochloromethane	ug/kg	4.4 U	3.9 U	4.1 U	4 U	3.9 U	4 U	3.6 U	3.4 U	3.7 U	4 U	4.1 U	4 U	4 U
Chloroethane	ug/kg	4.4 U	3.9 U	4.1 U	4 U	3.9 U	4 U	3.6 U	3.4 U	3.7 U	4 U	4.1 U	4 U	4 U
Vinyl Chloride	ug/kg	4.4 U	3.9 U	4.1 U	4 U	3.9 U	4 U	3.6 U	3.4 U	3.7 U	4 U	4.1 U	4 U	4 U
Methylene chloride	ug/kg	4.4 U	3.9 U	4.1 U	4 U	3.9 U	4 U	3.6 U	3.4 U	3.7 U	4 U	4.1 U	4 U	4 U
Bromoform	ug/kg	4.4 U	3.9 U	4.1 U	4 U	3.9 U	4 U	3.6 U	3.4 U	3.7 U	4 U	4.1 U	4 U	4 U
Bromodichloromethane	ug/kg	4.4 U	3.9 U	4.1 U	4 U	3.9 U	4 U	3.6 U	3.4 U	3.7 U	4 U	4.1 U	4 U	4 U
1,1-Dichloroethane	ug/kg	4.4 U	3.9 U	4.1 U	4 U	3.9 U	4 U	3.6 U	3.4 U	3.7 U	4 U	4.1 U	4 U	4 U
1,1-Dichloroethene	ug/kg	4.4 U	3.9 U	4.1 U	4 U	3.9 U	4 U	3.6 U	3.4 U	3.7 U	4 U	4.1 U	4 U	4 U
Trichlorofluoromethane	ug/kg	4.4 U	3.9 U	4.1 U	4 U	3.9 U	4 U	3.6 U	3.4 U	3.7 U	4 U	4.1 U	4 U	4 U
Dichlorodifluoromethane	ug/kg	4.4 U	3.9 U	4.1 U	4 U	3.9 U	4 U	3.6 U	3.4 U	3.7 U	4 U	4.1 U	4 U	4 U
Freon 113a	ug/kg	5.5 U	4.9 U	5.1 U	5 U	4.9 U	5 UJ	4.5 UJ	4.2 UJ	4.6 UJ	4.9 UJ	5.1 UJ	5 U	5 U
Freon 113	ug/kg	4.4 U	3.9 U	4.1 U	4 U	3.9 U	4 U	3.6 U	3.4 U	3.7 U	4 U	4.1 U	4 U	4 U
1,2-Dichloropropane	ug/kg	4.4 U	3.9 U	4.1 U	4 U	3.9 U	4 U	3.6 U	3.4 U	3.7 U	4 U	4.1 U	4 U	4 U
2-Butanone	ug/kg	8.8 U	7.8 U	8.1 U	8.1 U	7.9 U	10	9.7	1.5 J	7.4 U	16	2.8 J	8 U	7.9 U
1,1,2-Trichloroethane	ug/kg	4.4 U	3.9 U	4.1 U	4 U	3.9 U	4 U	3.6 U	3.4 U	3.7 U	4 U	4.1 U	4 U	4 U
Trichloroethene	ug/kg	4.4 U	3.9 U	4.1 U	4 U	3.9 U	4 U	3.6 U	3.4 U	3.7 U	4 U	4.1 U	4 U	4 U
1,1,2,2-Tetrachloroethane	ug/kg	4.4 U	3.9 U	4.1 U	4 U	3.9 U	4 U	3.6 U	3.4 U	3.7 U	4 U	4.1 U	4 U	4 U
Chlorotrifluoroethene	ug/kg	5.5 U	4.9 U	5.1 U	5 U	4.9 U	5 U	4.5 U	4.2 U	4.6 U	4.9 U	5.1 U	5 U	5 U
1,2,3-Trichlorobenzene	ug/kg	4.4 U	3.9 U	4.1 U	4 U	3.9 U	4 U	3.6 U	3.4 U	3.7 U	4 U	4.1 U	4 U	4 U
o-Xylene	ug/kg	4.4 U	3.9 U	4.1 U	4 U	3.9 U	4 U	3.6 U	3.4 U	3.7 U	0.2 J	4.1 U	4 U	4 U
2-Chlorotoluene	ug/kg	4.4 U	3.9 U	4.1 U	4 U	3.9 U	4 U	3.6 U	3.4 U	3.7 U	4 U	4.1 U	4 U	4 U
1,2,4-Trimethylbenzene	ug/kg	4.4 U	3.9 U	4.1 U	4 U	3.9 U	4 U	3.6 U	3.4 U	3.7 U	4 U	4.1 U	4 U	4 U
1,2-Dibromo-3-chloropropane	ug/kg	4.4 U	3.9 U	4.1 U	4 U	3.9 U	4 U	3.6 U	3.4 U	3.7 U	4 U	4.1 U	4 U	4 U
1,2,3-Trichloropropane	ug/kg	4.4 U	3.9 U	4.1 U	4 U	3.9 U	4 U	3.6 U	3.4 U	3.7 U	4 U	4.1 U	4 U	4 U
tert-Butylbenzene	ug/kg	4.4 U	3.9 U	4.1 U	4 U	3.9 U	4 U	3.6 U	3.4 U	3.7 U	4 U	4.1 U	4 U	4 U
Isopropylbenzene	ug/kg	4.4 U	3.9 U	4.1 U	4 U	3.9 U	4 U	3.6 U	3.4 U	3.7 U	4 U	4.1 U	4 U	4 U

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

Appendix A7
Volatile Organics - Validated Data
HSA-5B

	Sample Name	SL-035-SA5B-SB-4.0-5.0	SL-035-SA5B-SB-7.0-8.0	SL-036-SA5B-SB-4.0-5.0	SL-037-SA5B-SB-3.5-4.5	SL-039-SA5B-SB-4.0-5.0	SL-040-SA5B-SB-1.5-2.5	SL-040-SA5B-SB-9.0-10.0	SL-041-SA5B-SB-1.5-2.5	SL-041-SA5B-SB-8.0-9.0	SL-042-SA5B-SB-2.5-3.5	SL-042-SA5B-SB-8.0-9.0	SL-043-SA5B-SB-2.5-3.5	SL-044-SA5B-SB-4.0-5.0
	Sample Date	01/20/2011	01/20/2011	01/20/2011	01/20/2011	01/17/2011	12/16/2010	12/16/2010	12/16/2010	12/16/2010	12/16/2010	12/16/2010	12/16/2010	12/20/2010
	Lab SDG	DE065	DE065	DE065	DE065	DE062	DE043	DE043	DE043	DE043	DE043	DE043	DE043	DE048
	Start Depth	4	7	4	3.5	4	1.5	9	1.5	8	2.5	8	2.5	4
	End Depth	5	8	5	4.5	5	2.5	10	2.5	9	3.5	9	3.5	5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
GRO (C5-C12)	mg/kg	1 U	1 U	--	1.1 U	--	0.9 U	1 U	1.1 U	0.5 J	1.2 U	1.1 U	1.1 U	0.9 U
EFH (C15-C20)	mg/kg	2 J	1.3 U	--	27 U	--	1.3 U	1.4 U	1.4 U	14 J	1.3 U	1.4 U	0.68 J	1.4 U
EFH (C21-C30)	mg/kg	25	4.2	--	63	--	3.7	11	2.5	390	7.2	5.4	9	1.8 J
EFH (C30-C40)	mg/kg	50	9	--	220	--	7.1	28	4.2	860	12	16	15	4 J
EFH (C8-C11)	mg/kg	2.6 U	1.3 U	--	27 U	--	1.3 U	1.4 U	1.4 U	27 U	1.3 U	1.4 U	1.3 U	1.4 U
1,4-Dichlorobenzene	ug/kg	4.5 U	4.1 U	4.1 U	4.4 U	3.9 U	3.8 U	4.5 U	4.1 U	4.5 U	4.3 U	4.1 U	4.4 U	4.2 U
1,2,4-Trichlorobenzene	ug/kg	4.5 U	4.1 U	4.1 U	4.4 U	3.9 U	3.8 U	4.5 U	4.1 U	4.5 U	4.3 U	4.1 U	4.4 U	4.2 U
1,3-Dichlorobenzene	ug/kg	4.5 U	4.1 U	4.1 U	4.4 U	3.9 U	3.8 U	4.5 U	4.1 U	4.5 U	4.3 U	4.1 U	4.4 U	4.2 U
Hexachlorobutadiene	ug/kg	4.5 U	4.1 U	4.1 U	4.4 U	3.9 U	3.8 U	4.5 U	4.1 U	4.5 U	4.3 U	4.1 U	4.4 U	4.2 U
1,2-Dichlorobenzene	ug/kg	4.5 U	4.1 U	4.1 U	4.4 U	3.9 U	3.8 U	4.5 U	4.1 U	4.5 U	4.3 U	4.1 U	4.4 U	4.2 U
Isopropyltoluene	ug/kg	4.5 U	4.1 U	4.1 U	4.4 U	3.9 U	3.8 U	4.5 U	4.1 U	4.5 U	4.3 U	4.1 U	4.4 U	4.2 U
Ethylbenzene	ug/kg	4.5 U	4.1 U	4.1 U	4.4 U	3.9 U	3.8 U	4.5 U	4.1 U	4.5 U	4.3 U	4.1 U	4.4 U	4.2 U
Styrene	ug/kg	4.5 U	4.1 U	4.1 U	4.4 U	3.9 U	3.8 U	4.5 U	4.1 U	4.5 U	4.3 U	4.1 U	4.4 U	4.2 U
cis-1,3-Dichloropropene	ug/kg	4.5 U	4.1 U	4.1 U	4.4 U	3.9 U	3.8 U	4.5 U	4.1 U	4.5 U	4.3 U	4.1 U	4.4 U	4.2 U
trans-1,3-Dichloropropene	ug/kg	4.5 U	4.1 U	4.1 U	4.4 U	3.9 U	3.8 U	4.5 U	4.1 U	4.5 U	4.3 U	4.1 U	4.4 U	4.2 U
N-Propylbenzene	ug/kg	4.5 U	4.1 U	4.1 U	4.4 U	3.9 U	3.8 U	4.5 U	4.1 U	4.5 U	4.3 U	4.1 U	4.4 U	4.2 U
N-Butylbenzene	ug/kg	4.5 U	4.1 U	4.1 U	4.4 U	3.9 U	3.8 U	4.5 U	4.1 U	4.5 U	4.3 U	4.1 U	4.4 U	4.2 U
4-Chlorotoluene	ug/kg	4.5 U	4.1 U	4.1 U	4.4 U	3.9 U	3.8 U	4.5 U	4.1 U	4.5 U	4.3 U	4.1 U	4.4 U	4.2 U
1,2-Dibromoethane	ug/kg	4.5 U	4.1 U	4.1 U	4.4 U	3.9 U	3.8 U	4.5 U	4.1 U	4.5 U	4.3 U	4.1 U	4.4 U	4.2 U
1,2-Dichloroethane	ug/kg	4.5 U	4.1 U	4.1 U	4.4 U	3.9 U	3.8 U	4.5 U	4.1 U	4.5 U	4.3 U	4.1 U	4.4 U	4.2 U
4-Methyl-2-Pentanone	ug/kg	9 U	8.1 U	8.3 U	8.8 U	7.8 UJ	7.7 U	9 U	8.2 U	9.1 U	8.5 U	8.2 U	8.8 U	8.3 U
1,3,5-Trimethylbenzene	ug/kg	4.5 U	4.1 U	4.1 U	4.4 U	3.9 U	3.8 U	4.5 U	4.1 U	4.5 U	4.3 U	4.1 U	4.4 U	4.2 U
Bromobenzene	ug/kg	4.5 U	4.1 U	4.1 U	4.4 U	3.9 U	3.8 U	4.5 U	4.1 U	4.5 U	4.3 U	4.1 U	4.4 U	4.2 U
Toluene	ug/kg	4.5 U	4.1 U	4.1 U	4.4 U	3.9 U	3.8 U	4.5 U	4.1 U	4.5 U	4.3 U	4.1 U	4.4 U	4.2 UJ
Chlorobenzene	ug/kg	4.5 U	4.1 U	4.1 U	4.4 U	3.9 U	3.8 U	4.5 U	4.1 U	4.5 U	4.3 U	4.1 U	4.4 U	4.2 U
2-Chloroethyl Vinyl Ether	ug/kg	4.5 U	4.1 U	4.1 U	4.4 U	3.9 U	3.8 U	4.5 U	4.1 U	4.5 U	4.3 U	4.1 U	4.4 U	4.2 U
1,4-Dioxane	ug/kg	16 U	16 U	17 U	17 U	15 U	14 U	15 U	15 U	15 U	17 U	17 U	14 U	14 U
Dibromochloromethane	ug/kg	4.5 U	4.1 U	4.1 U	4.4 U	3.9 U	3.8 U	4.5 U	4.1 U	4.5 U	4.3 U	4.1 U	4.4 U	4.2 U
Tetrachloroethene	ug/kg	4.5 U	4.1 U	4.1 U	4.4 U	3.9 U	3.8 U	4.5 U	4.1 U	4.5 U	4.3 U	4.1 U	4.4 U	4.2 U
sec-Butylbenzene	ug/kg	4.5 U	4.1 U	4.1 U	4.4 U	3.9 U	3.8 U	4.5 U	4.1 U	4.5 U	4.3 U	4.1 U	4.4 U	4.2 U
1,3-Dichloropropane	ug/kg	4.5 U	4.1 U	4.1 U	4.4 U	3.9 U	3.8 U	4.5 U	4.1 U	4.5 U	4.3 U	4.1 U	4.4 U	4.2 U
cis-1,2-Dichloroethene	ug/kg	4.5 U	4.1 U	4.1 U	4.4 U	3.9 U	3.8 U	4.5 U	4.1 U	4.5 U	4.3 U	4.1 U	4.4 U	4.2 U
trans-1,2-Dichloroethene	ug/kg	4.5 U	4.1 U	4.1 U	4.4 U	3.9 U	3.8 U	4.5 U	4.1 U	4.5 U	4.3 U	4.1 U	4.4 U	4.2 U
Methyl tert-Butyl Ether	ug/kg	4.5 U	4.1 U	4.1 U	4.4 U	3.9 U	3.8 U	4.5 U	4.1 U	4.5 U	4.3 U	4.1 U	4.4 U	4.2 U
m,p-Xylene	ug/kg	4.5 U	4.1 U	4.1 U	4.4 U	3.9 U	3.8 U	4.5 U	4.1 U	4.5 U	4.3 U	4.1 U	4.4 U	4.2 U
Carbon tetrachloride	ug/kg	4.5 U	4.1 U	4.1 U	4.4 U	3.9 U	3.8 U	4.5 U	4.1 U	4.5 U	4.3 U	4.1 U	4.4 U	4.2 U
1,1-Dichloropropene	ug/kg	4.5 U	4.1 U	4.1 U	4.4 U	3.9 U	3.8 U	4.5 U	4.1 U	4.5 U	4.3 U	4.1 U	4.4 U	4.2 U
2-Hexanone	ug/kg	9 U	8.1 U	8.3 U	8.8 U	7.8 U	7.7 U	9 U	8.2 U	9.1 U	8.5 U	8.2 U	8.8 U	8.3 U
2,2-Dichloropropane	ug/kg	4.5 U	4.1 U	4.1 U	4.4 U	3.9 U	3.8 U	4.5 U	4.1 U	4.5 U	4.3 U	4.1 U	4.4 U	4.2 U
1,1,1,2-Tetrachloroethane	ug/kg	4.5 U	4.1 U	4.1 U	4.4 U	3.9 U	3.8 U	4.5 U	4.1 U	4.5 U	4.3 U	4.1 U	4.4 U	4.2 U
Acetone	ug/kg	9 U	10	8.3 U	8.8 U	37	44	9 U	24	150	54	16	47	31 J
Chloroform	ug/kg	4.5 U	4.1 U	4.1 U	4.4 U	3.9 U	3.8 U	4.5 U	4.1 U	4.5 U	4.3 U	4.1 U	4.4 U	4.2 U
Benzene	ug/kg	4.5 U	4.1 U	4.1 U	4.4 U	3.9 U	0.14 J	4.5 U	0.11 J	4.5 U	4.3 U	4.1 U	4.4 U	4.2 U
1,1,1-Trichloroethane	ug/kg	4.5 U	4.1 U	4.1 U	4.4 U	3.9 U	3.8 U	4.5 U	4.1 U	4.5 U	4.3 U	4.1 U	4.4 U	4.2 U
Bromomethane	ug/kg	4.5 U	4.1 U	4.1 U	4.4 U	3.9 U	3.8 U	4.5 U	4.1 U	4.5 U	4.3 U	4.1 U	4.4 U	4.2 U

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

Appendix A7
Volatile Organics - Validated Data
HSA-5B

		Sample Name	SL-035-SA5B-SB-4.0-5.0	SL-035-SA5B-SB-7.0-8.0	SL-036-SA5B-SB-4.0-5.0	SL-037-SA5B-SB-3.5-4.5	SL-039-SA5B-SB-4.0-5.0	SL-040-SA5B-SB-1.5-2.5	SL-040-SA5B-SB-9.0-10.0	SL-041-SA5B-SB-1.5-2.5	SL-041-SA5B-SB-8.0-9.0	SL-042-SA5B-SB-2.5-3.5	SL-042-SA5B-SB-8.0-9.0	SL-043-SA5B-SB-2.5-3.5	SL-044-SA5B-SB-4.0-5.0
		Sample Date	01/20/2011	01/20/2011	01/20/2011	01/20/2011	01/17/2011	12/16/2010	12/16/2010	12/16/2010	12/16/2010	12/16/2010	12/16/2010	12/16/2010	12/20/2010
		Lab SDG	DE065	DE065	DE065	DE065	DE062	DE043	DE043	DE043	DE043	DE043	DE043	DE043	DE048
		Start Depth	4	7	4	3.5	4	1.5	9	1.5	8	2.5	8	2.5	4
		End Depth	5	8	5	4.5	5	2.5	10	2.5	9	3.5	9	3.5	5
Chemical Name	Unit		Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Chloromethane	ug/kg		4.5 U	4.1 U	4.1 U	4.4 U	3.9 U	3.8 U	4.5 U	4.1 U	4.5 U	4.3 U	4.1 U	4.4 U	4.2 U
Dibromomethane	ug/kg		4.5 U	4.1 U	4.1 U	4.4 U	3.9 U	3.8 U	4.5 U	4.1 U	4.5 U	4.3 U	4.1 U	4.4 U	4.2 U
Bromochloromethane	ug/kg		4.5 U	4.1 U	4.1 U	4.4 U	3.9 U	3.8 U	4.5 U	4.1 U	4.5 U	4.3 U	4.1 U	4.4 U	4.2 U
Chloroethane	ug/kg		4.5 U	4.1 U	4.1 U	4.4 U	3.9 U	3.8 U	4.5 U	4.1 U	4.5 U	4.3 U	4.1 U	4.4 U	4.2 U
Vinyl Chloride	ug/kg		4.5 U	4.1 U	4.1 U	4.4 U	3.9 U	3.8 U	4.5 U	4.1 U	4.5 U	4.3 U	4.1 U	4.4 U	4.2 U
Methylene chloride	ug/kg		4.5 U	4.1 U	4.1 U	4.4 U	3.9 U	3.8 U	4.5 U	4.1 U	6.1	4.3 U	4.1 U	4.4 U	4.2 U
Bromoform	ug/kg		4.5 U	4.1 U	4.1 U	4.4 U	3.9 U	3.8 U	4.5 U	4.1 U	4.5 U	4.3 U	4.1 U	4.4 U	4.2 U
Bromodichloromethane	ug/kg		4.5 U	4.1 U	4.1 U	4.4 U	3.9 U	3.8 U	4.5 U	4.1 U	4.5 U	4.3 U	4.1 U	4.4 U	4.2 U
1,1-Dichloroethane	ug/kg		4.5 U	4.1 U	4.1 U	4.4 U	3.9 U	3.8 U	4.5 U	4.1 U	4.5 U	4.3 U	4.1 U	4.4 U	4.2 U
1,1-Dichloroethene	ug/kg		4.5 U	4.1 U	4.1 U	4.4 U	3.9 U	3.8 U	4.5 U	4.1 U	4.5 U	4.3 U	4.1 U	4.4 U	4.2 U
Trichlorofluoromethane	ug/kg		4.5 U	4.1 U	4.1 U	4.4 U	3.9 U	3.8 U	4.5 U	4.1 U	4.5 U	4.3 U	4.1 U	4.4 U	4.2 U
Dichlorodifluoromethane	ug/kg		4.5 U	4.1 U	4.1 U	4.4 U	3.9 U	3.8 U	4.5 U	4.1 U	4.5 U	4.3 U	4.1 U	4.4 U	4.2 U
Freon 113a	ug/kg		5.6 U	5.1 U	5.2 U	5.5 U	4.9 U	4.8 U	5.6 U	5.1 U	5.7 U	5.3 U	5.1 U	5.5 U	5.2 U
Freon 113	ug/kg		4.5 U	4.1 U	4.1 U	4.4 U	3.9 U	3.8 U	4.5 U	4.1 U	4.5 U	4.3 U	4.1 U	4.4 U	4.2 U
1,2-Dichloropropane	ug/kg		4.5 U	4.1 U	4.1 U	4.4 U	3.9 U	3.8 U	4.5 U	4.1 U	4.5 U	4.3 U	4.1 U	4.4 U	4.2 U
2-Butanone	ug/kg		9 U	8.1 U	8.3 U	8.8 U	6.3 J	7.3 J	9 U	3.8 J	28	8.3 J	8.2 U	8.3 J	3 J
1,1,2-Trichloroethane	ug/kg		4.5 U	4.1 U	4.1 U	4.4 U	3.9 U	3.8 U	4.5 U	4.1 U	4.5 U	4.3 U	4.1 U	4.4 U	4.2 U
Trichloroethene	ug/kg		4.5 U	4.1 U	4.1 U	4.4 U	3.9 U	3.8 U	4.5 U	4.1 U	4.5 U	4.3 U	4.1 U	4.4 U	4.2 U
1,1,2,2-Tetrachloroethane	ug/kg		4.5 U	4.1 U	4.1 U	4.4 U	3.9 U	3.8 U	4.5 U	4.1 U	4.5 U	4.3 U	4.1 U	4.4 U	4.2 U
Chlorotrifluoroethene	ug/kg		5.6 U	5.1 U	5.2 U	5.5 U	4.9 U	4.8 U	5.6 U	5.1 U	5.7 U	5.3 U	5.1 U	5.5 U	5.2 UJ
1,2,3-Trichlorobenzene	ug/kg		4.5 U	4.1 U	4.1 U	4.4 U	3.9 U	3.8 U	4.5 U	4.1 U	4.5 U	4.3 U	4.1 U	4.4 U	4.2 U
o-Xylene	ug/kg		4.5 U	4.1 U	4.1 U	4.4 U	3.9 U	3.8 U	4.5 U	4.1 U	4.5 U	4.3 U	4.1 U	4.4 U	4.2 U
2-Chlorotoluene	ug/kg		4.5 U	4.1 U	4.1 U	4.4 U	3.9 U	3.8 U	4.5 U	4.1 U	4.5 U	4.3 U	4.1 U	4.4 U	4.2 U
1,2,4-Trimethylbenzene	ug/kg		4.5 U	4.1 U	4.1 U	4.4 U	3.9 U	3.8 U	4.5 U	4.1 U	4.5 U	4.3 U	4.1 U	4.4 U	4.2 U
1,2-Dibromo-3-chloropropane	ug/kg		4.5 U	4.1 U	4.1 U	4.4 U	3.9 U	3.8 U	4.5 U	4.1 U	4.5 U	4.3 U	4.1 U	4.4 U	4.2 U
1,2,3-Trichloropropane	ug/kg		4.5 U	4.1 U	4.1 U	4.4 U	3.9 U	3.8 U	4.5 U	4.1 U	4.5 U	4.3 U	4.1 U	4.4 U	4.2 U
tert-Butylbenzene	ug/kg		4.5 U	4.1 U	4.1 U	4.4 U	3.9 U	3.8 U	4.5 U	4.1 U	4.5 U	4.3 U	4.1 U	4.4 U	4.2 U
Isopropylbenzene	ug/kg		4.5 U	4.1 U	4.1 U	4.4 U	3.9 U	3.8 U	4.5 U	4.1 U	4.5 U	4.3 U	4.1 U	4.4 U	4.2 U

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

Appendix A7
Volatile Organics - Validated Data
HSA-5B

	Sample Name	SL-044-SA5B-SB-7.0-8.0	SL-045-SA5B-SB-3.0-4.0	SL-046-SA5B-SB-4.0-5.0	SL-047-SA5B-SB-4.0-5.0	SL-048-SA5B-SB-4.0-5.0	SL-049-SA5B-SB-4.0-5.0	SL-049-SA5B-SB-9.0-10.0	SL-050-SA5B-SB-3.0-4.0	SL-051-SA5B-SB-3.0-4.0	SL-053-SA5B-SB-1.8-2.8	SL-054-SA5B-SB-3.0-4.0	SL-055-SA5B-SB-4.0-5.0	SL-056-SA5B-SB-4.0-5.0
	Sample Date	12/20/2010	12/20/2010	12/21/2010	12/21/2010	01/19/2011	01/19/2011	01/19/2011	01/06/2011	01/06/2011	01/10/2011	01/10/2011	01/07/2011	01/07/2011
	Lab SDG	DE048	DE048	DE049	DE049	DE064	DE064	DE064	DE054	DE054	DE056	DE056	DE055	DE055
	Start Depth	7	3	4	4	4	4	9	3	3	1.8	3	4	4
	End Depth	8	4	5	5	5	5	10	4	4	2.8	4	5	5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
GRO (C5-C12)	mg/kg	0.9 U	0.9 U	--	--	--	0.9 U	1.1 U	1 U	1.1 U	--	--	--	--
EFH (C15-C20)	mg/kg	1.1 J	1.3 U	--	--	--	1.3 U	1.2 U	1.3 U	1.4 U	--	--	--	--
EFH (C21-C30)	mg/kg	22	2	--	--	--	3	1.2 U	1.3 U	1.4 U	--	--	--	--
EFH (C30-C40)	mg/kg	88	5.1	--	--	--	9.4	1.2 U	1.9	1.4 U	--	--	--	--
EFH (C8-C11)	mg/kg	2.7 U	1.3 U	--	--	--	1.3 U	1.2 U	1.3 U	1.4 U	--	--	--	--
1,4-Dichlorobenzene	ug/kg	4.1 U	4.2 U	4.4 U	3.7 U	4.2 U	4.2 U	4 U	4.3 U	4.5 U	4.3 U	4.2 U	4 U	4.2 U
1,2,4-Trichlorobenzene	ug/kg	4.1 U	4.2 U	4.4 U	3.7 U	4.2 U	4.2 U	4 U	4.3 U	4.5 U	4.3 U	4.2 U	4 U	4.2 U
1,3-Dichlorobenzene	ug/kg	4.1 U	4.2 U	4.4 U	3.7 U	4.2 U	4.2 U	4 U	4.3 U	4.5 U	4.3 U	4.2 U	4 U	4.2 U
Hexachlorobutadiene	ug/kg	4.1 U	4.2 U	4.4 U	3.7 U	4.2 U	4.2 U	4 U	4.3 U	4.5 U	4.3 U	4.2 U	4 U	4.2 U
1,2-Dichlorobenzene	ug/kg	4.1 U	4.2 U	4.4 U	3.7 U	4.2 U	4.2 U	4 U	4.3 U	4.5 U	4.3 U	4.2 U	4 U	4.2 U
Isopropyltoluene	ug/kg	4.1 U	4.2 U	4.4 U	3.7 U	4.2 U	4.2 U	4 U	4.3 U	4.5 U	4.3 U	4.2 U	4 U	4.2 U
Ethylbenzene	ug/kg	4.1 U	4.2 U	4.4 U	3.7 U	4.2 U	4.2 U	4 U	4.3 U	4.5 U	4.3 U	4.2 U	4 U	4.2 U
Styrene	ug/kg	4.1 U	4.2 U	4.4 U	3.7 U	4.2 U	4.2 U	4 U	4.3 U	4.5 U	4.3 U	4.2 U	4 U	4.2 U
cis-1,3-Dichloropropene	ug/kg	4.1 U	4.2 U	4.4 U	3.7 U	4.2 U	4.2 U	4 U	4.3 U	4.5 U	4.3 U	4.2 U	4 U	4.2 U
trans-1,3-Dichloropropene	ug/kg	4.1 U	4.2 U	4.4 U	3.7 U	4.2 U	4.2 U	4 U	4.3 U	4.5 U	4.3 U	4.2 U	4 U	4.2 U
N-Propylbenzene	ug/kg	4.1 U	4.2 U	4.4 U	3.7 U	4.2 U	4.2 U	4 U	4.3 U	4.5 U	4.3 U	4.2 U	4 U	4.2 U
N-Butylbenzene	ug/kg	4.1 U	4.2 U	4.4 U	3.7 U	4.2 U	4.2 U	4 U	4.3 U	4.5 U	4.3 U	4.2 U	4 U	4.2 U
4-Chlorotoluene	ug/kg	4.1 U	4.2 U	4.4 U	3.7 U	4.2 U	4.2 U	4 U	4.3 U	4.5 U	4.3 U	4.2 U	4 U	4.2 U
1,2-Dibromoethane	ug/kg	4.1 U	4.2 U	4.4 U	3.7 U	4.2 U	4.2 U	4 U	4.3 U	4.5 U	4.3 U	4.2 U	4 U	4.2 U
1,2-Dichloroethane	ug/kg	4.1 U	4.2 U	4.4 U	3.7 U	4.2 U	4.2 U	4 U	4.3 U	4.5 U	4.3 U	4.2 U	4 U	4.2 U
4-Methyl-2-Pentanone	ug/kg	8.2 U	8.5 U	8.7 U	7.5 U	8.4 U	8.5 U	8.1 U	8.6 U	9 U	8.7 U	8.5 U	8.1 U	8.3 U
1,3,5-Trimethylbenzene	ug/kg	4.1 U	4.2 U	4.4 U	3.7 U	4.2 U	4.2 U	4 U	4.3 U	4.5 U	4.3 U	4.2 U	4 U	4.2 U
Bromobenzene	ug/kg	4.1 U	4.2 U	4.4 U	3.7 U	4.2 U	4.2 U	4 U	4.3 U	4.5 U	4.3 U	4.2 U	4 U	4.2 U
Toluene	ug/kg	4.1 U	4.2 U	4.4 U	3.7 U	4.2 U	4.2 U	4 U	4.3 U	4.5 U	4.3 U	4.2 U	4 U	4.2 U
Chlorobenzene	ug/kg	4.1 U	4.2 U	4.4 U	3.7 U	4.2 U	4.2 U	4 U	4.3 U	4.5 U	4.3 U	4.2 U	4 U	4.2 U
2-Chloroethyl Vinyl Ether	ug/kg	4.1 U	4.2 U	4.4 U	3.7 U	4.2 U	4.2 U	4 U	4.3 U	4.5 U	4.3 U	4.2 U	4 U	4.2 U
1,4-Dioxane	ug/kg	15 U	16 U	15 U	17 U	16 U	16 U	15 U	15 U	16 U	16 U	15 U	15 U	15 U
Dibromochloromethane	ug/kg	4.1 U	4.2 U	4.4 U	3.7 U	4.2 U	4.2 U	4 U	4.3 U	4.5 U	4.3 U	4.2 U	4 U	4.2 U
Tetrachloroethene	ug/kg	4.1 U	4.2 U	4.4 U	3.7 U	4.2 U	4.2 U	4 U	4.3 U	4.5 U	4.3 U	4.2 U	4 U	4.2 U
sec-Butylbenzene	ug/kg	4.1 U	4.2 U	4.4 U	3.7 U	4.2 U	4.2 U	4 U	4.3 U	4.5 U	4.3 U	4.2 U	4 U	4.2 U
1,3-Dichloropropane	ug/kg	4.1 U	4.2 U	4.4 U	3.7 U	4.2 U	4.2 U	4 U	4.3 U	4.5 U	4.3 U	4.2 U	4 U	4.2 U
cis-1,2-Dichloroethene	ug/kg	4.1 U	4.2 U	4.4 U	3.7 U	4.2 U	4.2 U	4 U	4.3 U	4.5 U	4.3 U	4.2 U	4 U	4.2 U
trans-1,2-Dichloroethene	ug/kg	4.1 U	4.2 U	4.4 U	3.7 U	4.2 U	4.2 U	4 U	4.3 U	4.5 U	4.3 U	4.2 U	4 U	4.2 U
Methyl tert-Butyl Ether	ug/kg	4.1 U	4.2 U	4.4 U	3.7 U	4.2 U	4.2 U	4 U	4.3 U	4.5 U	4.3 U	4.2 U	4 U	4.2 U
m,p-Xylene	ug/kg	4.1 U	4.2 U	4.4 U	3.7 U	4.2 U	4.2 U	4 U	4.3 U	4.5 U	4.3 U	4.2 U	4 U	4.2 U
Carbon tetrachloride	ug/kg	4.1 U	4.2 U	4.4 U	3.7 U	4.2 U	4.2 U	4 U	4.3 U	4.5 U	4.3 U	4.2 U	4 U	4.2 U
1,1-Dichloropropene	ug/kg	4.1 U	4.2 U	4.4 U	3.7 U	4.2 U	4.2 U	4 U	4.3 U	4.5 U	4.3 U	4.2 U	4 U	4.2 U
2-Hexanone	ug/kg	8.2 U	8.5 U	8.7 UJ	7.5 UJ	8.4 U	8.5 U	8.1 U	8.6 U	9 U	8.7 U	8.5 U	8.1 U	8.3 U
2,2-Dichloropropane	ug/kg	4.1 U	4.2 U	4.4 U	3.7 U	4.2 U	4.2 U	4 U	4.3 U	4.5 U	4.3 U	4.2 U	4 U	4.2 U
1,1,1,2-Tetrachloroethane	ug/kg	4.1 U	4.2 U	4.4 U	3.7 U	4.2 U	4.2 U	4 U	4.3 U	4.5 U	4.3 U	4.2 U	4 U	4.2 U
Acetone	ug/kg	22	11	21	7.5 U	8.4 U	8.5 U	8.1 U	10	9 U	8.7 U	8.5 U	8.1 U	8.3 U
Chloroform	ug/kg	4.1 U	4.2 U	4.4 U	3.7 U	4.2 U	4.2 U	4 U	4.3 U	4.5 U	4.3 U	4.2 U	4 U	4.2 U
Benzene	ug/kg	4.1 U	4.2 U	4.4 U	3.7 U	4.2 U	4.2 U	4 U	4.3 U	4.5 U	4.3 U	4.2 U	4 U	4.2 U
1,1,1-Trichloroethane	ug/kg	4.1 U	4.2 U	4.4 U	3.7 U	4.2 U	4.2 U	4 U	4.3 U	4.5 U	4.3 U	4.2 U	4 U	4.2 U
Bromomethane	ug/kg	4.1 U	4.2 U	4.4 U	3.7 U	4.2 U	4.2 U	4 U	4.3 U	4.5 U	4.3 U	4.2 U	4 U	4.2 U

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

Appendix A7
Volatile Organics - Validated Data
HSA-5B

	Sample Name	SL-044-SA5B-SB-7.0-8.0	SL-045-SA5B-SB-3.0-4.0	SL-046-SA5B-SB-4.0-5.0	SL-047-SA5B-SB-4.0-5.0	SL-048-SA5B-SB-4.0-5.0	SL-049-SA5B-SB-4.0-5.0	SL-049-SA5B-SB-9.0-10.0	SL-050-SA5B-SB-3.0-4.0	SL-051-SA5B-SB-3.0-4.0	SL-053-SA5B-SB-1.8-2.8	SL-054-SA5B-SB-3.0-4.0	SL-055-SA5B-SB-4.0-5.0	SL-056-SA5B-SB-4.0-5.0
	Sample Date	12/20/2010	12/20/2010	12/21/2010	12/21/2010	01/19/2011	01/19/2011	01/19/2011	01/06/2011	01/06/2011	01/10/2011	01/10/2011	01/07/2011	01/07/2011
	Lab SDG	DE048	DE048	DE049	DE049	DE064	DE064	DE064	DE054	DE054	DE056	DE056	DE055	DE055
	Start Depth	7	3	4	4	4	4	9	3	3	1.8	3	4	4
	End Depth	8	4	5	5	5	5	10	4	4	2.8	4	5	5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Chloromethane	ug/kg	4.1 U	4.2 U	4.4 U	3.7 U	4.2 U	4.2 U	4 U	4.3 U	4.5 U	4.3 U	4.2 U	4 U	4.2 U
Dibromomethane	ug/kg	4.1 U	4.2 U	4.4 U	3.7 U	4.2 U	4.2 U	4 U	4.3 U	4.5 U	4.3 U	4.2 U	4 U	4.2 U
Bromochloromethane	ug/kg	4.1 U	4.2 U	4.4 U	3.7 U	4.2 U	4.2 U	4 U	4.3 U	4.5 U	4.3 U	4.2 U	4 U	4.2 U
Chloroethane	ug/kg	4.1 U	4.2 U	4.4 U	3.7 U	4.2 U	4.2 U	4 U	4.3 U	4.5 U	4.3 U	4.2 U	4 U	4.2 U
Vinyl Chloride	ug/kg	4.1 U	4.2 U	4.4 U	3.7 U	4.2 U	4.2 U	4 U	4.3 U	4.5 U	4.3 U	4.2 U	4 U	4.2 U
Methylene chloride	ug/kg	4.1 U	4.2 U	4.4 U	3.7 U	4.2 U	4.2 U	4 U	4.3 U	0.76 J	4.3 U	4.2 U	4 U	4.2 U
Bromoform	ug/kg	4.1 U	4.2 U	4.4 U	3.7 U	4.2 U	4.2 U	4 U	4.3 U	4.5 U	4.3 U	4.2 U	4 U	4.2 U
Bromodichloromethane	ug/kg	4.1 U	4.2 U	4.4 U	3.7 U	4.2 U	4.2 U	4 U	4.3 U	4.5 U	4.3 U	4.2 U	4 U	4.2 U
1,1-Dichloroethane	ug/kg	4.1 U	4.2 U	4.4 U	3.7 U	4.2 U	4.2 U	4 U	4.3 U	4.5 U	4.3 U	4.2 U	4 U	4.2 U
1,1-Dichloroethene	ug/kg	4.1 U	4.2 U	4.4 U	3.7 U	4.2 U	4.2 U	4 U	4.3 U	4.5 U	4.3 U	4.2 U	4 U	4.2 U
Trichlorofluoromethane	ug/kg	4.1 U	4.2 U	4.4 U	3.7 U	4.2 U	4.2 U	4 U	4.3 U	4.5 U	4.3 U	4.2 U	4 U	4.2 U
Dichlorodifluoromethane	ug/kg	4.1 U	4.2 U	4.4 U	3.7 U	4.2 U	4.2 U	4 U	4.3 U	4.5 U	4.3 U	4.2 U	4 U	4.2 U
Freon 113a	ug/kg	5.1 U	5.3 U	5.5 U	4.7 U	5.3 U	5.3 U	5.1 U	5.4 U	5.6 U	5.4 U	5.3 U	5 U	5.2 U
Freon 113	ug/kg	4.1 U	4.2 U	4.4 U	3.7 U	4.2 U	4.2 U	4 U	4.3 U	4.5 U	4.3 U	4.2 U	4 U	4.2 U
1,2-Dichloropropane	ug/kg	4.1 U	4.2 U	4.4 U	3.7 U	4.2 U	4.2 U	4 U	4.3 U	4.5 U	4.3 U	4.2 U	4 U	4.2 U
2-Butanone	ug/kg	2.6 J	8.5 U	8.7 U	7.5 U	8.4 U	8.5 U	8.1 U	8.6 U	9 U	8.7 U	8.5 U	8.1 U	8.3 U
1,1,2-Trichloroethane	ug/kg	4.1 U	4.2 U	4.4 U	3.7 U	4.2 U	4.2 U	4 U	4.3 U	4.5 U	4.3 U	4.2 U	4 U	4.2 U
Trichloroethene	ug/kg	4.1 U	4.2 U	4.4 U	3.7 U	4.2 U	4.2 U	4 U	4.3 U	4.5 U	4.3 U	4.2 U	4 U	4.2 U
1,1,2,2-Tetrachloroethane	ug/kg	4.1 U	4.2 U	4.4 U	3.7 U	4.2 U	4.2 U	4 U	4.3 U	4.5 U	4.3 U	4.2 U	4 U	4.2 U
Chlorotrifluoroethene	ug/kg	5.1 U	5.3 U	5.5 UJ	4.7 UJ	5.3 U	5.3 U	5.1 U	5.4 U	5.6 U	5.4 U	5.3 U	5 U	5.2 U
1,2,3-Trichlorobenzene	ug/kg	4.1 U	4.2 U	4.4 U	3.7 U	4.2 U	4.2 U	4 U	4.3 U	4.5 U	4.3 U	4.2 U	4 U	4.2 U
o-Xylene	ug/kg	4.1 U	4.2 U	4.4 U	3.7 U	4.2 U	4.2 U	4 U	4.3 U	4.5 U	4.3 U	4.2 U	4 U	4.2 U
2-Chlorotoluene	ug/kg	4.1 U	4.2 U	4.4 U	3.7 U	4.2 U	4.2 U	4 U	4.3 U	4.5 U	4.3 U	4.2 U	4 U	4.2 U
1,2,4-Trimethylbenzene	ug/kg	4.1 U	4.2 U	4.4 U	3.7 U	4.2 U	4.2 U	4 U	4.3 U	4.5 U	4.3 U	4.2 U	4 U	4.2 U
1,2-Dibromo-3-chloropropane	ug/kg	4.1 U	4.2 U	4.4 U	3.7 U	4.2 U	4.2 U	4 U	4.3 U	4.5 U	4.3 U	4.2 U	4 U	4.2 U
1,2,3-Trichloropropane	ug/kg	4.1 U	4.2 U	4.4 U	3.7 U	4.2 U	4.2 U	4 U	4.3 U	4.5 U	4.3 U	4.2 U	4 U	4.2 U
tert-Butylbenzene	ug/kg	4.1 U	4.2 U	4.4 U	3.7 U	4.2 U	4.2 U	4 U	4.3 U	4.5 U	4.3 U	4.2 U	4 U	4.2 U
Isopropylbenzene	ug/kg	4.1 U	4.2 U	4.4 U	3.7 U	4.2 U	4.2 U	4 U	4.3 U	4.5 U	4.3 U	4.2 U	4 U	4.2 U

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

Appendix A7
Volatile Organics - Validated Data
HSA-5B

	Sample Name	SL-058-SA5B-SB-4.0-5.0	SL-059-SA5B-SB-4.0-5.0	SL-060-SA5B-SB-4.0-5.0	SL-061-SA5B-SB-3.5-4.5	SL-062-SA5B-SB-4.0-5.0	SL-063-SA5B-SB-3.0-4.0	SL-065-SA5B-SB-4.0-5.0	SL-066-SA5B-SB-3.0-4.0	SL-067-SA5B-SB-3.5-4.5	SL-068-SA5B-SB-3.0-4.0	SL-069-SA5B-SB-3.0-4.0	SL-070-SA5B-SB-2.5-3.5	SL-071-SA5B-SB-2.0-3.0
	Sample Date	01/06/2011	01/07/2011	01/07/2011	01/07/2011	01/07/2011	01/06/2011	01/05/2011	01/06/2011	01/05/2011	01/05/2011	01/05/2011	01/05/2011	01/12/2011
	Lab SDG	DE054	DE055	DE055	DE055	DE055	DE054	DE053	DE054	DE053	DE053	DE053	DE053	DE059
	Start Depth	4	4	4	3.5	4	3	4	3	3.5	3	3	2.5	2
	End Depth	5	5	5	4.5	5	4	5	4	4.5	4	4	3.5	3
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
GRO (C5-C12)	mg/kg	--	--	--	--	--	1 U	--	--	--	--	1 U	1 U	1.1 U
EFH (C15-C20)	mg/kg	--	--	--	--	--	13 U	--	--	--	--	1.3 U	0.64 J	1.3 U
EFH (C21-C30)	mg/kg	--	--	--	--	--	260	--	--	--	--	0.46 J	26	1.3 U
EFH (C30-C40)	mg/kg	--	--	--	--	--	400	--	--	--	--	3.1	36	1.3 U
EFH (C8-C11)	mg/kg	--	--	--	--	--	13 U	--	--	--	--	1.3 U	1.3 U	1.3 U
1,4-Dichlorobenzene	ug/kg	4 U	4.4 U	3.8 U	4.6 U	3.9 U	4.4 U	4.1 U	4.4 U	3.8 U	3.8 U	4.2 U	3.9 U	4.3 U
1,2,4-Trichlorobenzene	ug/kg	4 U	4.4 U	3.8 U	4.6 U	3.9 U	4.4 U	4.1 U	4.4 U	3.8 U	3.8 U	4.2 U	3.9 U	4.3 U
1,3-Dichlorobenzene	ug/kg	4 U	4.4 U	3.8 U	4.6 U	3.9 U	4.4 U	4.1 U	4.4 U	3.8 U	3.8 U	4.2 U	3.9 U	4.3 U
Hexachlorobutadiene	ug/kg	4 U	4.4 U	3.8 U	4.6 U	3.9 U	4.4 U	4.1 U	4.4 U	3.8 U	3.8 U	4.2 U	3.9 U	4.3 U
1,2-Dichlorobenzene	ug/kg	4 U	4.4 U	3.8 U	4.6 U	3.9 U	4.4 U	4.1 U	4.4 U	3.8 U	3.8 U	4.2 U	3.9 U	4.3 U
Isopropyltoluene	ug/kg	4 U	4.4 U	3.8 U	4.6 U	3.9 U	4.4 U	4.1 U	4.4 U	3.8 U	3.8 U	4.2 U	3.9 U	4.3 U
Ethylbenzene	ug/kg	4 U	4.4 U	3.8 U	4.6 U	3.9 U	4.4 U	4.1 U	4.4 U	3.8 U	3.8 U	4.2 U	3.9 U	4.3 U
Styrene	ug/kg	4 U	4.4 U	3.8 U	4.6 U	3.9 U	4.4 U	4.1 U	4.4 U	3.8 U	3.8 U	4.2 U	3.9 U	4.3 U
cis-1,3-Dichloropropene	ug/kg	4 U	4.4 U	3.8 U	4.6 U	3.9 U	4.4 U	4.1 U	4.4 U	3.8 U	3.8 U	4.2 U	3.9 U	4.3 U
trans-1,3-Dichloropropene	ug/kg	4 U	4.4 U	3.8 U	4.6 U	3.9 U	4.4 U	4.1 U	4.4 U	3.8 U	3.8 U	4.2 U	3.9 U	4.3 U
N-Propylbenzene	ug/kg	4 U	4.4 U	3.8 U	4.6 U	3.9 U	4.4 U	4.1 U	4.4 U	3.8 U	3.8 U	4.2 U	3.9 U	4.3 U
N-Butylbenzene	ug/kg	4 U	4.4 U	3.8 U	4.6 U	3.9 U	4.4 U	4.1 U	4.4 U	3.8 U	3.8 U	4.2 U	3.9 U	4.3 U
4-Chlorotoluene	ug/kg	4 U	4.4 U	3.8 U	4.6 U	3.9 U	4.4 U	4.1 U	4.4 U	3.8 U	3.8 U	4.2 U	3.9 U	4.3 U
1,2-Dibromoethane	ug/kg	4 U	4.4 U	3.8 U	4.6 U	3.9 U	4.4 U	4.1 U	4.4 U	3.8 U	3.8 U	4.2 U	3.9 U	4.3 U
1,2-Dichloroethane	ug/kg	4 U	4.4 U	3.8 U	4.6 U	3.9 U	4.4 U	4.1 U	4.4 U	3.8 U	3.8 U	4.2 U	3.9 U	4.3 U
4-Methyl-2-Pentanone	ug/kg	7.9 U	8.7 U	7.6 U	9.1 U	7.7 U	8.7 U	8.3 U	8.9 U	7.6 U	7.7 U	8.4 U	7.9 U	8.5 U
1,3,5-Trimethylbenzene	ug/kg	4 U	4.4 U	3.8 U	4.6 U	3.9 U	4.4 U	4.1 U	4.4 U	3.8 U	3.8 U	4.2 U	3.9 U	4.3 U
Bromobenzene	ug/kg	4 U	4.4 U	3.8 U	4.6 U	3.9 U	4.4 U	4.1 U	4.4 U	3.8 U	3.8 U	4.2 U	3.9 U	4.3 U
Toluene	ug/kg	4 U	4.4 U	3.8 U	4.6 U	3.9 U	4.4 U	4.1 U	4.4 U	3.8 U	3.8 U	4.2 U	3.9 U	4.3 U
Chlorobenzene	ug/kg	4 U	4.4 U	3.8 U	4.6 U	3.9 U	4.4 U	4.1 U	4.4 U	3.8 U	3.8 U	4.2 U	3.9 U	4.3 U
2-Chloroethyl Vinyl Ether	ug/kg	4 U	4.4 U	3.8 U	4.6 U	3.9 U	4.4 U	4.1 U	4.4 U	3.8 U	3.8 U	4.2 U	3.9 U	4.3 U
1,4-Dioxane	ug/kg	16 U	18 U	15 U	14 U	18 U	15 U	15 U	17 U	14 U	16 U	16 U	14 U	17 U
Dibromochloromethane	ug/kg	4 U	4.4 U	3.8 U	4.6 U	3.9 U	4.4 U	4.1 U	4.4 U	3.8 U	3.8 U	4.2 U	3.9 U	4.3 U
Tetrachloroethene	ug/kg	4 U	4.4 U	3.8 U	4.6 U	3.9 U	4.4 U	4.1 U	4.4 U	3.8 U	3.8 U	4.2 U	3.9 U	4.3 U
sec-Butylbenzene	ug/kg	4 U	4.4 U	3.8 U	4.6 U	3.9 U	4.4 U	4.1 U	4.4 U	3.8 U	3.8 U	4.2 U	3.9 U	4.3 U
1,3-Dichloropropane	ug/kg	4 U	4.4 U	3.8 U	4.6 U	3.9 U	4.4 U	4.1 U	4.4 U	3.8 U	3.8 U	4.2 U	3.9 U	4.3 U
cis-1,2-Dichloroethene	ug/kg	4 U	4.4 U	3.8 U	4.6 U	3.9 U	4.4 U	4.1 U	4.4 U	3.8 U	3.8 U	4.2 U	3.9 U	4.3 U
trans-1,2-Dichloroethene	ug/kg	4 U	4.4 U	3.8 U	4.6 U	3.9 U	4.4 U	4.1 U	4.4 U	3.8 U	3.8 U	4.2 U	3.9 U	4.3 U
Methyl tert-Butyl Ether	ug/kg	4 U	4.4 U	3.8 U	4.6 U	3.9 U	4.4 U	4.1 U	4.4 U	3.8 U	3.8 U	4.2 U	3.9 U	4.3 U
m,p-Xylene	ug/kg	4 U	4.4 U	3.8 U	4.6 U	3.9 U	4.4 U	4.1 U	4.4 U	3.8 U	3.8 U	4.2 U	3.9 U	4.3 U
Carbon tetrachloride	ug/kg	4 U	4.4 U	3.8 U	4.6 U	3.9 U	4.4 U	4.1 U	4.4 U	3.8 U	3.8 U	4.2 U	3.9 U	4.3 U
1,1-Dichloropropene	ug/kg	4 U	4.4 U	3.8 U	4.6 U	3.9 U	4.4 U	4.1 U	4.4 U	3.8 U	3.8 U	4.2 U	3.9 U	4.3 U
2-Hexanone	ug/kg	7.9 U	8.7 U	7.6 U	9.1 U	7.7 U	8.7 U	8.3 U	8.9 U	7.6 U	7.7 U	8.4 U	7.9 U	8.5 UJ
2,2-Dichloropropane	ug/kg	4 U	4.4 U	3.8 U	4.6 U	3.9 U	4.4 U	4.1 U	4.4 U	3.8 U	3.8 U	4.2 U	3.9 U	4.3 U
1,1,1,2-Tetrachloroethane	ug/kg	4 U	4.4 U	3.8 U	4.6 U	3.9 U	4.4 U	4.1 U	4.4 U	3.8 U	3.8 U	4.2 U	3.9 U	4.3 U
Acetone	ug/kg	7.9 U	8.7 U	7.6 U	9.1 U	7.7 U	8.7 U	8.3 U	8.9 U	7.6 U	7.7 U	8.4 U	7.9 U	8.5 U
Chloroform	ug/kg	4 U	4.4 U	3.8 U	4.6 U	3.9 U	4.4 U	4.1 U	4.4 U	3.8 U	3.8 U	4.2 U	3.9 U	4.3 U
Benzene	ug/kg	4 U	4.4 U	3.8 U	4.6 U	3.9 U	4.4 U	4.1 U	4.4 U	3.8 U	3.8 U	4.2 U	3.9 U	4.3 U
1,1,1-Trichloroethane	ug/kg	4 U	4.4 U	3.8 U	4.6 U	3.9 U	4.4 U	4.1 U	4.4 U	3.8 U	3.8 U	4.2 U	3.9 U	4.3 U
Bromomethane	ug/kg	4 U	4.4 U	3.8 U	4.6 U	3.9 U	4.4 U	4.1 U	4.4 U	3.8 U	3.8 U	4.2 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 A7
Volatile Organics - Validated Data
HSA-5B

	Sample Name	SL-058-SA5B-SB-4.0-5.0	SL-059-SA5B-SB-4.0-5.0	SL-060-SA5B-SB-4.0-5.0	SL-061-SA5B-SB-3.5-4.5	SL-062-SA5B-SB-4.0-5.0	SL-063-SA5B-SB-3.0-4.0	SL-065-SA5B-SB-4.0-5.0	SL-066-SA5B-SB-3.0-4.0	SL-067-SA5B-SB-3.5-4.5	SL-068-SA5B-SB-3.0-4.0	SL-069-SA5B-SB-3.0-4.0	SL-070-SA5B-SB-2.5-3.5	SL-071-SA5B-SB-2.0-3.0
	Sample Date	01/06/2011	01/07/2011	01/07/2011	01/07/2011	01/07/2011	01/06/2011	01/05/2011	01/06/2011	01/05/2011	01/05/2011	01/05/2011	01/05/2011	01/12/2011
	Lab SDG	DE054	DE055	DE055	DE055	DE055	DE054	DE053	DE054	DE053	DE053	DE053	DE053	DE059
	Start Depth	4	4	4	3.5	4	3	4	3	3.5	3	3	2.5	2
	End Depth	5	5	5	4.5	5	4	5	4	4.5	4	4	3.5	3
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Chloromethane	ug/kg	4 U	4.4 U	3.8 U	4.6 U	3.9 U	4.4 U	4.1 U	4.4 U	3.8 U	3.8 U	4.2 U	3.9 U	4.3 U
Dibromomethane	ug/kg	4 U	4.4 U	3.8 U	4.6 U	3.9 U	4.4 U	4.1 U	4.4 U	3.8 U	3.8 U	4.2 U	3.9 U	4.3 U
Bromochloromethane	ug/kg	4 U	4.4 U	3.8 U	4.6 U	3.9 U	4.4 U	4.1 U	4.4 U	3.8 U	3.8 U	4.2 U	3.9 U	4.3 U
Chloroethane	ug/kg	4 U	4.4 U	3.8 U	4.6 U	3.9 U	4.4 U	4.1 U	4.4 U	3.8 U	3.8 U	4.2 U	3.9 U	4.3 U
Vinyl Chloride	ug/kg	4 U	4.4 U	3.8 U	4.6 U	3.9 U	4.4 U	4.1 U	4.4 U	3.8 U	3.8 U	4.2 U	3.9 U	4.3 U
Methylene chloride	ug/kg	0.68 J	4.4 U	3.8 U	4.6 U	3.9 U	0.33 J	0.45 J	0.75 J	3.8 U	0.29 J	0.32 J	0.29 J	1.1 J
Bromoform	ug/kg	4 U	4.4 U	3.8 U	4.6 U	3.9 U	4.4 U	4.1 U	4.4 U	3.8 U	3.8 U	4.2 U	3.9 U	4.3 U
Bromodichloromethane	ug/kg	4 U	4.4 U	3.8 U	4.6 U	3.9 U	4.4 U	4.1 U	4.4 U	3.8 U	3.8 U	4.2 U	3.9 U	4.3 U
1,1-Dichloroethane	ug/kg	4 U	4.4 U	3.8 U	4.6 U	3.9 U	4.4 U	4.1 U	4.4 U	3.8 U	3.8 U	4.2 U	3.9 U	4.3 U
1,1-Dichloroethene	ug/kg	4 U	4.4 U	3.8 U	4.6 U	3.9 U	4.4 U	4.1 U	4.4 U	3.8 U	3.8 U	4.2 U	3.9 U	4.3 U
Trichlorofluoromethane	ug/kg	4 U	4.4 U	3.8 U	4.6 U	3.9 U	4.4 U	4.1 U	4.4 U	3.8 U	3.8 U	4.2 U	3.9 U	4.3 U
Dichlorodifluoromethane	ug/kg	4 U	4.4 U	3.8 U	4.6 U	3.9 U	4.4 U	4.1 U	4.4 U	3.8 U	3.8 U	4.2 U	3.9 U	4.3 U
Freon 113a	ug/kg	5 U	5.5 U	4.7 U	5.7 U	4.8 U	5.5 U	5.2 U	5.6 U	4.7 U	4.8 U	5.3 U	4.9 U	5.3 U
Freon 113	ug/kg	4 U	4.4 U	3.8 U	4.6 U	3.9 U	4.4 U	4.1 U	4.4 U	3.8 U	3.8 U	4.2 U	3.9 U	4.3 U
1,2-Dichloropropane	ug/kg	4 U	4.4 U	3.8 U	4.6 U	3.9 U	4.4 U	4.1 U	4.4 U	3.8 U	3.8 U	4.2 U	3.9 U	4.3 U
2-Butanone	ug/kg	7.9 U	8.7 U	7.6 U	9.1 U	7.7 U	8.7 U	8.3 U	8.9 U	7.6 U	7.7 U	8.4 U	7.9 U	8.5 U
1,1,2-Trichloroethane	ug/kg	4 U	4.4 U	3.8 U	4.6 U	3.9 U	4.4 U	4.1 U	4.4 U	3.8 U	3.8 U	4.2 U	3.9 U	4.3 U
Trichloroethene	ug/kg	4 U	4.4 U	3.8 U	4.6 U	3.9 U	4.4 U	4.1 U	4.4 U	3.8 U	3.8 U	4.2 U	3.9 U	4.3 U
1,1,2,2-Tetrachloroethane	ug/kg	4 U	4.4 U	3.8 U	4.6 U	3.9 U	4.4 U	4.1 U	4.4 U	3.8 U	3.8 U	4.2 U	3.9 U	4.3 U
Chlorotrifluoroethene	ug/kg	5 U	5.5 U	4.7 U	5.7 U	4.8 U	5.5 U	5.2 U	5.6 U	4.7 U	4.8 U	5.3 U	4.9 U	5.3 UJ
1,2,3-Trichlorobenzene	ug/kg	4 U	4.4 U	3.8 U	4.6 U	3.9 U	4.4 U	4.1 U	4.4 U	3.8 U	3.8 U	4.2 U	3.9 U	4.3 U
o-Xylene	ug/kg	4 U	4.4 U	3.8 U	4.6 U	3.9 U	4.4 U	4.1 U	4.4 U	3.8 U	3.8 U	4.2 U	3.9 U	4.3 U
2-Chlorotoluene	ug/kg	4 U	4.4 U	3.8 U	4.6 U	3.9 U	4.4 U	4.1 U	4.4 U	3.8 U	3.8 U	4.2 U	3.9 U	4.3 U
1,2,4-Trimethylbenzene	ug/kg	4 U	4.4 U	3.8 U	4.6 U	3.9 U	4.4 U	4.1 U	4.4 U	3.8 U	3.8 U	4.2 U	3.9 U	4.3 U
1,2-Dibromo-3-chloropropane	ug/kg	4 U	4.4 U	3.8 U	4.6 U	3.9 U	4.4 U	4.1 U	4.4 U	3.8 U	3.8 U	4.2 U	3.9 U	4.3 U
1,2,3-Trichloropropane	ug/kg	4 U	4.4 U	3.8 U	4.6 U	3.9 U	4.4 U	4.1 U	4.4 U	3.8 U	3.8 U	4.2 U	3.9 U	4.3 U
tert-Butylbenzene	ug/kg	4 U	4.4 U	3.8 U	4.6 U	3.9 U	4.4 U	4.1 U	4.4 U	3.8 U	3.8 U	4.2 U	3.9 U	4.3 U
Isopropylbenzene	ug/kg	4 U	4.4 U	3.8 U	4.6 U	3.9 U	4.4 U	4.1 U	4.4 U	3.8 U	3.8 U	4.2 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 A7
Volatile Organics - Validated Data
HSA-5B

	Sample Name	SL-072-SA5B-SB-4.0-5.0	SL-073-SA5B-SB-4.0-5.0	SL-074-SA5B-SB-4.0-5.0	SL-078-SA5B-SB-4.0-5.0	SL-081-SA5B-SB-2.5-3.5	SL-081-SA5B-SB-6.0-7.0	SL-082-SA5B-SB-2.25-3.25	SL-082-SA5B-SB-7.0-8.0	SL-083-SA5B-SB-4.0-5.0	SL-085-SA5B-SS-0.0-0.5	SL-085-SA5B-SB-3.0-4.0	SL-086-SA5B-SB-4.0-5.0	SL-087-SA5B-SB-3.0-4.0
	Sample Date	01/12/2011	01/13/2011	01/13/2011	01/17/2011	01/14/2011	01/14/2011	01/17/2011	01/17/2011	01/14/2011	12/13/2010	01/11/2011	01/11/2011	01/11/2011
	Lab SDG	DE059	DE060	DE060	DE062	DE061	DE061	DE062	DE062	DE061	DE037	DE057	DE057	DE057
	Start Depth	4	4	4	4	2.5	6	2.25	7	4	0	3	4	3
	End Depth	5	5	5	5	3.5	7	3.25	8	5	0.5	4	5	4
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
GRO (C5-C12)	mg/kg	1 U	--	--	--	0.9 U	0.9 U	1.1 U	1 U	--	13 U	1 U	--	1.1 U
EFH (C15-C20)	mg/kg	1.4 U	--	--	--	1.3 U	1.4 U	0.98 J	6.9 U	--	--	1.3 U	--	1.3 U
EFH (C21-C30)	mg/kg	1.4 U	--	--	--	1.2 J	3	7.6	22	--	--	1.3 U	--	1.3 U
EFH (C30-C40)	mg/kg	1.4 U	--	--	--	3.9	25	28	59	--	--	1.3 U	--	1.3 U
EFH (C8-C11)	mg/kg	1.4 U	--	--	--	1.3 U	1.4 U	1.4 U	6.9 U	--	--	1.3 U	--	1.3 U
1,4-Dichlorobenzene	ug/kg	4.3 U	4.4 U	3.9 U	3.8 U	3.8 U	3.7 U	4.6 U	4 U	3.7 U	5.5 U	4.2 U	5.3 U	4.1 U
1,2,4-Trichlorobenzene	ug/kg	4.3 U	4.4 U	3.9 U	3.8 U	3.8 U	3.7 U	4.6 U	4 U	3.7 U	5.5 U	4.2 U	5.3 U	4.1 U
1,3-Dichlorobenzene	ug/kg	4.3 U	4.4 U	3.9 U	3.8 U	3.8 U	3.7 U	4.6 U	4 U	3.7 U	5.5 U	4.2 U	5.3 U	4.1 U
Hexachlorobutadiene	ug/kg	4.3 U	4.4 U	3.9 U	3.8 U	3.8 U	3.7 U	4.6 U	4 U	3.7 U	5.5 U	4.2 U	5.3 U	4.1 U
1,2-Dichlorobenzene	ug/kg	4.3 U	4.4 U	3.9 U	3.8 U	3.8 U	3.7 U	4.6 U	4 U	3.7 U	5.5 U	4.2 U	5.3 U	4.1 U
Isopropyltoluene	ug/kg	4.3 U	4.4 U	3.9 U	3.8 U	3.8 U	3.7 U	4.6 U	4 U	3.7 U	5.5 U	4.2 U	5.3 U	4.1 U
Ethylbenzene	ug/kg	4.3 U	4.4 U	3.9 U	3.8 U	3.8 U	3.7 U	4.6 U	4 U	3.7 U	5.5 U	4.2 U	5.3 U	4.1 U
Styrene	ug/kg	4.3 U	4.4 U	3.9 U	3.8 U	3.8 U	3.7 U	4.6 U	4 U	3.7 U	5.5 U	4.2 U	5.3 U	4.1 U
cis-1,3-Dichloropropene	ug/kg	4.3 U	4.4 U	3.9 U	3.8 U	3.8 U	3.7 U	4.6 U	4 U	3.7 U	5.5 U	4.2 UJ	5.3 UJ	4.1 UJ
trans-1,3-Dichloropropene	ug/kg	4.3 U	4.4 U	3.9 U	3.8 U	3.8 U	3.7 U	4.6 U	4 U	3.7 U	5.5 U	4.2 U	5.3 U	4.1 U
N-Propylbenzene	ug/kg	4.3 U	4.4 U	3.9 U	3.8 U	3.8 U	3.7 U	4.6 U	4 U	3.7 U	5.5 U	4.2 U	5.3 U	4.1 U
N-Butylbenzene	ug/kg	4.3 U	4.4 U	3.9 U	3.8 U	3.8 U	3.7 U	4.6 U	4 U	3.7 U	5.5 U	4.2 U	5.3 U	4.1 U
4-Chlorotoluene	ug/kg	4.3 U	4.4 U	3.9 U	3.8 U	3.8 U	3.7 U	4.6 U	4 U	3.7 U	5.5 U	4.2 U	5.3 U	4.1 U
1,2-Dibromoethane	ug/kg	4.3 U	4.4 U	3.9 U	3.8 U	3.8 U	3.7 U	4.6 U	4 U	3.7 U	5.5 U	4.2 U	5.3 U	4.1 U
1,2-Dichloroethane	ug/kg	4.3 U	4.4 U	3.9 U	3.8 U	3.8 U	3.7 U	4.6 U	4 U	3.7 U	5.5 U	4.2 U	5.3 U	4.1 U
4-Methyl-2-Pentanone	ug/kg	8.5 U	8.8 U	7.7 U	7.5 UJ	7.6 U	7.4 U	9.3 UJ	8.1 UJ	7.4 U	11 U	8.4 U	11 U	8.2 U
1,3,5-Trimethylbenzene	ug/kg	4.3 U	4.4 U	3.9 U	3.8 U	3.8 U	3.7 U	4.6 U	4 U	3.7 U	5.5 U	4.2 U	5.3 U	4.1 U
Bromobenzene	ug/kg	4.3 U	4.4 U	3.9 U	3.8 U	3.8 U	3.7 U	4.6 U	4 U	3.7 U	5.5 U	4.2 U	5.3 U	4.1 U
Toluene	ug/kg	4.3 U	4.4 U	3.9 U	3.8 U	3.8 U	3.7 U	4.6 U	4 U	3.7 U	5.5 U	4.2 U	5.3 U	4.1 U
Chlorobenzene	ug/kg	4.3 U	4.4 U	3.9 U	3.8 U	3.8 U	3.7 U	4.6 U	4 U	3.7 U	5.5 U	4.2 U	5.3 U	4.1 U
2-Chloroethyl Vinyl Ether	ug/kg	4.3 U	4.4 U	3.9 U	3.8 U	3.8 U	3.7 U	4.6 U	4 U	3.7 U	5.5 U	4.2 U	5.3 U	4.1 U
1,4-Dioxane	ug/kg	18 U	14 U	15 U	14 U	13 U	14 U	17 U	16 U	14 U	20 U	19 U	16 U	18 U
Dibromochloromethane	ug/kg	4.3 U	4.4 U	3.9 U	3.8 U	3.8 U	3.7 U	4.6 U	4 U	3.7 U	5.5 U	4.2 U	5.3 U	4.1 U
Tetrachloroethene	ug/kg	4.3 U	4.4 U	3.9 U	3.8 U	3.8 U	3.7 U	4.6 U	4 U	3.7 U	5.5 U	4.2 U	5.3 U	4.1 U
sec-Butylbenzene	ug/kg	4.3 U	4.4 U	3.9 U	3.8 U	3.8 U	3.7 U	4.6 U	4 U	3.7 U	5.5 U	4.2 U	5.3 U	4.1 U
1,3-Dichloropropane	ug/kg	4.3 U	4.4 U	3.9 U	3.8 U	3.8 U	3.7 U	4.6 U	4 U	3.7 U	5.5 U	4.2 U	5.3 U	4.1 U
cis-1,2-Dichloroethene	ug/kg	4.3 U	4.4 U	3.9 U	3.8 U	3.8 U	3.7 U	4.6 U	4 U	3.7 U	5.5 U	4.2 U	5.3 U	4.1 U
trans-1,2-Dichloroethene	ug/kg	4.3 U	4.4 U	3.9 U	3.8 U	3.8 U	3.7 U	4.6 U	4 U	3.7 U	5.5 U	4.2 U	5.3 U	4.1 U
Methyl tert-Butyl Ether	ug/kg	4.3 U	4.4 U	3.9 U	3.8 U	3.8 U	3.7 U	4.6 U	4 U	3.7 U	5.5 U	4.2 U	5.3 U	4.1 U
m,p-Xylene	ug/kg	4.3 U	4.4 U	3.9 U	3.8 U	3.8 U	3.7 U	4.6 U	4 U	3.7 U	5.5 U	4.2 U	5.3 U	4.1 U
Carbon tetrachloride	ug/kg	4.3 U	4.4 U	3.9 U	3.8 U	3.8 U	3.7 U	4.6 U	4 U	3.7 U	5.5 U	4.2 U	5.3 U	4.1 U
1,1-Dichloropropene	ug/kg	4.3 U	4.4 U	3.9 U	3.8 U	3.8 U	3.7 U	4.6 U	4 U	3.7 U	5.5 U	4.2 U	5.3 U	4.1 U
2-Hexanone	ug/kg	8.5 UJ	8.8 U	7.7 U	7.5 U	7.6 U	7.4 U	9.3 U	8.1 U	7.4 U	11 U	8.4 U	11 U	8.2 U
2,2-Dichloropropane	ug/kg	4.3 U	4.4 U	3.9 U	3.8 U	3.8 U	3.7 U	4.6 U	4 U	3.7 U	5.5 U	4.2 U	5.3 U	4.1 U
1,1,1,2-Tetrachloroethane	ug/kg	4.3 U	4.4 U	3.9 U	3.8 U	3.8 U	3.7 U	4.6 U	4 U	3.7 U	5.5 U	4.2 U	5.3 U	4.1 U
Acetone	ug/kg	8.5 U	8.8 U	7.7 U	7.5 U	7.4 J	7.4 U	120	8.1 U	7.4 U	11 U	8.4 U	11 U	8.2 U
Chloroform	ug/kg	4.3 U	4.4 U	3.9 U	3.8 U	3.8 U	3.7 U	4.6 U	4 U	3.7 U	5.5 U	4.2 U	5.3 U	4.1 U
Benzene	ug/kg	4.3 U	4.4 U	3.9 U	3.8 U	3.8 U	3.7 U	4.6 U	4 U	3.7 U	5.5 U	4.2 U	5.3 U	4.1 U
1,1,1-Trichloroethane	ug/kg	4.3 U	4.4 U	3.9 U	3.8 U	3.8 U	3.7 U	4.6 U	4 U	3.7 U	5.5 U	4.2 U	5.3 U	4.1 U
Bromomethane	ug/kg	4.3 U	4.4 U	3.9 U	3.8 U	3.8 U	3.7 U	4.6 U	4 U	3.7 U	5.5 U	4.2 U	5.3 U	4.1 U

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

Appendix A7
Volatile Organics - Validated Data
HSA-5B

	Sample Name	SL-072-SA5B-SB-4.0-5.0	SL-073-SA5B-SB-4.0-5.0	SL-074-SA5B-SB-4.0-5.0	SL-078-SA5B-SB-4.0-5.0	SL-081-SA5B-SB-2.5-3.5	SL-081-SA5B-SB-6.0-7.0	SL-082-SA5B-SB-2.25-3.25	SL-082-SA5B-SB-7.0-8.0	SL-083-SA5B-SB-4.0-5.0	SL-085-SA5B-SS-0.0-0.5	SL-085-SA5B-SB-3.0-4.0	SL-086-SA5B-SB-4.0-5.0	SL-087-SA5B-SB-3.0-4.0
	Sample Date	01/12/2011	01/13/2011	01/13/2011	01/17/2011	01/14/2011	01/14/2011	01/17/2011	01/17/2011	01/14/2011	12/13/2010	01/11/2011	01/11/2011	01/11/2011
	Lab SDG	DE059	DE060	DE060	DE062	DE061	DE061	DE062	DE062	DE061	DE037	DE057	DE057	DE057
	Start Depth	4	4	4	4	2.5	6	2.25	7	4	0	3	4	3
	End Depth	5	5	5	5	3.5	7	3.25	8	5	0.5	4	5	4
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Chloromethane	ug/kg	4.3 U	4.4 U	3.9 U	3.8 U	3.8 U	3.7 U	4.6 U	4 U	3.7 U	5.5 U	4.2 U	5.3 U	4.1 U
Dibromomethane	ug/kg	4.3 U	4.4 U	3.9 U	3.8 U	3.8 U	3.7 U	4.6 U	4 U	3.7 U	5.5 U	4.2 U	5.3 U	4.1 U
Bromochloromethane	ug/kg	4.3 U	4.4 U	3.9 U	3.8 U	3.8 U	3.7 U	4.6 U	4 U	3.7 U	5.5 U	4.2 U	5.3 U	4.1 U
Chloroethane	ug/kg	4.3 U	4.4 U	3.9 U	3.8 U	3.8 U	3.7 U	4.6 U	4 U	3.7 U	5.5 U	4.2 U	5.3 U	4.1 U
Vinyl Chloride	ug/kg	4.3 U	4.4 U	3.9 U	3.8 U	3.8 U	3.7 U	4.6 U	4 U	3.7 U	5.5 U	4.2 U	5.3 U	4.1 U
Methylene chloride	ug/kg	1.5 J	4.4 U	3.9 U	3.8 U	3.8 U	3.7 U	4.6 U	4 U	3.7 U	5.5 U	4.2 U	5.3 U	4.1 U
Bromoform	ug/kg	4.3 U	4.4 U	3.9 U	3.8 U	3.8 U	3.7 U	4.6 U	4 U	3.7 U	5.5 U	4.2 U	5.3 U	4.1 U
Bromodichloromethane	ug/kg	4.3 U	4.4 U	3.9 U	3.8 U	3.8 U	3.7 U	4.6 U	4 U	3.7 U	5.5 U	4.2 U	5.3 U	4.1 U
1,1-Dichloroethane	ug/kg	4.3 U	4.4 U	3.9 U	3.8 U	3.8 U	3.7 U	4.6 U	4 U	3.7 U	5.5 U	4.2 U	5.3 U	4.1 U
1,1-Dichloroethene	ug/kg	4.3 U	4.4 U	3.9 U	3.8 U	3.8 U	3.7 U	4.6 U	4 U	3.7 U	5.5 U	4.2 U	5.3 U	4.1 U
Trichlorofluoromethane	ug/kg	4.3 U	4.4 U	3.9 U	3.8 U	3.8 U	3.7 U	4.6 U	4 U	3.7 U	5.5 U	4.2 U	5.3 U	4.1 U
Dichlorodifluoromethane	ug/kg	4.3 U	4.4 U	3.9 U	3.8 U	3.8 U	3.7 U	4.6 U	4 U	3.7 U	5.5 U	4.2 U	5.3 U	4.1 U
Freon 113a	ug/kg	5.3 U	5.5 U	4.8 U	4.7 U	4.8 U	4.6 U	5.8 U	5.1 U	4.6 U	6.9 U	5.2 U	6.6 U	5.1 U
Freon 113	ug/kg	4.3 U	4.4 U	3.9 U	3.8 U	3.8 U	3.7 U	4.6 U	4 U	3.7 U	5.5 U	4.2 U	5.3 U	4.1 U
1,2-Dichloropropane	ug/kg	4.3 U	4.4 U	3.9 U	3.8 U	3.8 U	3.7 U	4.6 U	4 U	3.7 U	5.5 U	4.2 U	5.3 U	4.1 U
2-Butanone	ug/kg	8.5 U	8.8 U	7.7 U	7.5 U	7.6 U	7.4 U	19	8.1 U	7.4 U	11 U	8.4 U	11 U	8.2 U
1,1,2-Trichloroethane	ug/kg	4.3 U	4.4 U	3.9 U	3.8 U	3.8 U	3.7 U	4.6 U	4 U	3.7 U	5.5 U	4.2 U	5.3 U	4.1 U
Trichloroethene	ug/kg	4.3 U	4.4 U	3.9 U	3.8 U	3.8 U	3.7 U	4.6 U	4 U	3.7 U	5.5 U	4.2 U	5.3 U	4.1 U
1,1,2,2-Tetrachloroethane	ug/kg	4.3 U	4.4 U	3.9 U	3.8 U	3.8 U	3.7 U	4.6 U	4 U	3.7 U	5.5 U	4.2 U	5.3 U	4.1 U
Chlorotrifluoroethene	ug/kg	5.3 UJ	5.5 U	4.8 U	4.7 U	4.8 U	4.6 U	5.8 U	5.1 U	4.6 U	6.9 U	5.2 U	6.6 U	5.1 U
1,2,3-Trichlorobenzene	ug/kg	4.3 U	4.4 U	3.9 U	3.8 U	3.8 U	3.7 U	4.6 U	4 U	3.7 U	5.5 U	4.2 U	5.3 U	4.1 U
o-Xylene	ug/kg	4.3 U	4.4 U	3.9 U	3.8 U	3.8 U	3.7 U	4.6 U	4 U	3.7 U	5.5 U	4.2 UJ	5.3 UJ	4.1 UJ
2-Chlorotoluene	ug/kg	4.3 U	4.4 U	3.9 U	3.8 U	3.8 U	3.7 U	4.6 U	4 U	3.7 U	5.5 U	4.2 U	5.3 U	4.1 U
1,2,4-Trimethylbenzene	ug/kg	4.3 U	4.4 U	3.9 U	3.8 U	3.8 U	3.7 U	4.6 U	4 U	3.7 U	5.5 U	4.2 U	5.3 U	4.1 U
1,2-Dibromo-3-chloropropane	ug/kg	4.3 U	4.4 U	3.9 U	3.8 U	3.8 U	3.7 U	4.6 U	4 U	3.7 U	5.5 U	4.2 U	5.3 U	4.1 U
1,2,3-Trichloropropane	ug/kg	4.3 U	4.4 U	3.9 U	3.8 U	3.8 U	3.7 U	4.6 U	4 U	3.7 U	5.5 U	4.2 U	5.3 U	4.1 U
tert-Butylbenzene	ug/kg	4.3 U	4.4 U	3.9 U	3.8 U	3.8 U	3.7 U	4.6 U	4 U	3.7 U	5.5 U	4.2 UJ	5.3 UJ	4.1 UJ
Isopropylbenzene	ug/kg	4.3 U	4.4 U	3.9 U	3.8 U	3.8 U	3.7 U	4.6 U	4 U	3.7 U	5.5 U	4.2 U	5.3 U	4.1 U

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

Appendix A7
Volatile Organics - Validated Data
HSA-5B

		Sample Name	SL-088-SA5B-SB-3.0-4.0	SL-089-SA5B-SB-4.0-5.0	SL-090-SA5B-SB-2.5-3.5	SL-091-SA5B-SB-4.0-5.0	SL-092-SA5B-SB-4.0-5.0	SL-093-SA5B-SB-3.0-4.0	SL-094-SA5B-SB-4.0-5.0	SL-095-SA5B-SB-4.0-5.0	SL-096-SA5B-SB-2.0-3.0	SL-097-SA5B-SB-4.0-5.0	SL-097-SA5B-SB-7.0-8.0	SL-098-SA5B-SB-4.0-5.0	SL-099-SA5B-SB-4.0-5.0
		Sample Date	01/11/2011	01/11/2011	01/11/2011	01/11/2011	01/12/2011	01/11/2011	01/11/2011	01/12/2011	01/12/2011	01/12/2011	01/12/2011	01/12/2011	01/11/2011
		Lab SDG	DE057	DE057	DE057	DE057	DE059	DE057	DE057	DE058	DE058	DE059	DE059	DE059	DE057
		Start Depth	3	4	2.5	4	4	3	4	4	2	4	7	4	4
		End Depth	4	5	3.5	5	5	4	5	5	3	5	8	5	5
Chemical Name	Unit		Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
GRO (C5-C12)	mg/kg		1 U	1.1 U	1 U	0.9 U	1 U	--	--	--	--	1 U	1 U	1 U	1 U
EFH (C15-C20)	mg/kg		1.3 U	1.4 U	1.3 U	1.4 U	0.65 J	--	--	--	--	1.4 U	1.4 U	1.4 U	1.4 U
EFH (C21-C30)	mg/kg		5.3	1.4 U	1.3 U	1.4 U	7.3 J	--	--	--	--	1.4 U	1.4 U	1.4 U	1.4 U
EFH (C30-C40)	mg/kg		21	1.4 U	0.73 J	1.4 U	23 J	--	--	--	--	1.4 U	1.4 U	1.4 U	1.4 U
EFH (C8-C11)	mg/kg		1.3 U	1.4 U	1.3 U	1.4 U	1.4 U	--	--	--	--	1.4 U	1.4 U	1.4 U	1.4 U
1,4-Dichlorobenzene	ug/kg		4 U	4.5 U	4 U	3.9 U	4.3 U	4.6 U	4 U	4.1 U	4.2 U	4.2 U	4 U	4.1 U	3.9 U
1,2,4-Trichlorobenzene	ug/kg		4 U	4.5 U	4 U	3.9 U	4.3 U	4.6 U	4 U	4.1 U	4.2 U	4.2 U	4 U	4.1 U	3.9 U
1,3-Dichlorobenzene	ug/kg		4 U	4.5 U	4 U	3.9 U	4.3 U	4.6 U	4 U	4.1 U	4.2 U	4.2 U	4 U	4.1 U	3.9 U
Hexachlorobutadiene	ug/kg		4 U	4.5 U	4 U	3.9 U	4.3 U	4.6 U	4 U	4.1 U	4.2 U	4.2 U	4 U	4.1 U	3.9 U
1,2-Dichlorobenzene	ug/kg		4 U	4.5 U	4 U	3.9 U	4.3 U	4.6 U	4 U	4.1 U	4.2 U	4.2 U	4 U	4.1 U	3.9 U
Isopropyltoluene	ug/kg		4 U	4.5 U	4 U	3.9 U	4.3 U	4.6 U	4 U	4.1 U	4.2 U	4.2 U	4 U	4.1 U	3.9 U
Ethylbenzene	ug/kg		4 U	4.5 U	4 U	3.9 U	4.3 U	4.6 U	4 U	4.1 U	4.2 U	4.2 U	4 U	4.1 U	3.9 U
Styrene	ug/kg		4 U	4.5 U	4 U	3.9 U	4.3 U	4.6 U	4 U	4.1 U	4.2 U	4.2 U	4 U	4.1 U	3.9 U
cis-1,3-Dichloropropene	ug/kg		4 UJ	4.5 UJ	4 UJ	3.9 UJ	4.3 U	4.6 UJ	4 UJ	4.1 U	4.2 U	4.2 U	4 U	4.1 U	3.9 UJ
trans-1,3-Dichloropropene	ug/kg		4 U	4.5 U	4 U	3.9 U	4.3 U	4.6 U	4 U	4.1 U	4.2 U	4.2 U	4 U	4.1 U	3.9 U
N-Propylbenzene	ug/kg		4 U	4.5 U	4 U	3.9 U	4.3 U	4.6 U	4 U	4.1 U	4.2 U	4.2 U	4 U	4.1 U	3.9 U
N-Butylbenzene	ug/kg		4 U	4.5 U	4 U	3.9 U	4.3 U	4.6 U	4 U	4.1 U	4.2 U	4.2 U	4 U	4.1 U	3.9 U
4-Chlorotoluene	ug/kg		4 U	4.5 U	4 U	3.9 U	4.3 U	4.6 U	4 U	4.1 U	4.2 U	4.2 U	4 U	4.1 U	3.9 U
1,2-Dibromoethane	ug/kg		4 U	4.5 U	4 U	3.9 U	4.3 U	4.6 U	4 U	4.1 U	4.2 U	4.2 U	4 U	4.1 U	3.9 U
1,2-Dichloroethane	ug/kg		4 U	4.5 U	4 U	3.9 U	4.3 U	4.6 U	4 U	4.1 U	4.2 U	4.2 U	4 U	4.1 U	3.9 U
4-Methyl-2-Pentanone	ug/kg		7.9 U	9.1 U	8 U	7.8 U	8.6 U	9.3 U	8 U	8.2 U	8.4 U	8.4 U	8 U	8.1 U	7.8 U
1,3,5-Trimethylbenzene	ug/kg		4 U	4.5 U	4 U	3.9 U	4.3 U	4.6 U	4 U	4.1 U	4.2 U	4.2 U	4 U	4.1 U	3.9 U
Bromobenzene	ug/kg		4 U	4.5 U	4 U	3.9 U	4.3 U	4.6 U	4 U	4.1 U	4.2 U	4.2 U	4 U	4.1 U	3.9 U
Toluene	ug/kg		4 U	4.5 U	4 U	3.9 U	4.3 U	4.6 U	4 U	4.1 UJ	4.2 U	4.2 U	4 U	4.1 U	3.9 U
Chlorobenzene	ug/kg		4 U	4.5 U	4 U	3.9 U	4.3 U	4.6 U	4 U	4.1 U	4.2 U	4.2 U	4 U	4.1 U	3.9 U
2-Chloroethyl Vinyl Ether	ug/kg		4 U	4.5 U	4 U	3.9 U	4.3 U	4.6 U	4 U	4.1 U	4.2 U	4.2 U	4 U	4.1 U	3.9 U
1,4-Dioxane	ug/kg		15 U	15 U	14 U	14 U	15 U	16 U	15 U	14 U	15 U	16 U	16 U	14 U	14 U
Dibromochloromethane	ug/kg		4 U	4.5 U	4 U	3.9 U	4.3 U	4.6 U	4 U	4.1 U	4.2 U	4.2 U	4 U	4.1 U	3.9 U
Tetrachloroethene	ug/kg		4 U	4.5 U	4 U	3.9 U	4.3 U	4.6 U	4 U	4.1 U	4.2 U	4.2 U	4 U	4.1 U	3.9 U
sec-Butylbenzene	ug/kg		4 U	4.5 U	4 U	3.9 U	4.3 U	4.6 U	4 U	4.1 U	4.2 U	4.2 U	4 U	4.1 U	3.9 U
1,3-Dichloropropane	ug/kg		4 U	4.5 U	4 U	3.9 U	4.3 U	4.6 U	4 U	4.1 U	4.2 U	4.2 U	4 U	4.1 U	3.9 U
cis-1,2-Dichloroethene	ug/kg		4 U	4.5 U	4 U	3.9 U	4.3 U	4.6 U	4 U	4.1 U	4.2 U	4.2 U	4 U	4.1 U	3.9 U
trans-1,2-Dichloroethene	ug/kg		4 U	4.5 U	4 U	3.9 U	4.3 U	4.6 U	4 U	4.1 U	4.2 U	4.2 U	4 U	4.1 U	3.9 U
Methyl tert-Butyl Ether	ug/kg		4 U	4.5 U	4 U	3.9 U	4.3 U	4.6 U	4 U	4.1 U	4.2 U	4.2 U	4 U	4.1 U	3.9 U
m,p-Xylene	ug/kg		4 U	4.5 U	4 U	3.9 U	4.3 U	4.6 U	4 U	4.1 U	4.2 U	4.2 U	4 U	4.1 U	3.9 U
Carbon tetrachloride	ug/kg		4 U	4.5 U	4 U	3.9 U	4.3 U	4.6 U	4 U	4.1 U	4.2 U	4.2 U	4 U	4.1 U	3.9 U
1,1-Dichloropropene	ug/kg		4 U	4.5 U	4 U	3.9 U	4.3 U	4.6 U	4 U	4.1 U	4.2 U	4.2 U	4 U	4.1 U	3.9 U
2-Hexanone	ug/kg		7.9 U	9.1 U	8 U	7.8 U	8.6 UJ	9.3 U	8 U	8.2 U	8.4 U	8.4 UJ	8 UJ	8.1 UJ	7.8 U
2,2-Dichloropropane	ug/kg		4 U	4.5 U	4 U	3.9 U	4.3 U	4.6 U	4 U	4.1 U	4.2 U	4.2 U	4 U	4.1 U	3.9 U
1,1,1,2-Tetrachloroethane	ug/kg		4 U	4.5 U	4 U	3.9 U	4.3 U	4.6 U	4 U	4.1 U	4.2 U	4.2 U	4 U	4.1 U	3.9 U
Acetone	ug/kg		7.9 U	9.1 U	8 U	7.8 U	8.6 U	9.3 U	8 U	14 J	8.4 U	8.4 U	8 U	8.1 U	7.8 U
Chloroform	ug/kg		4 U	4.5 U	4 U	3.9 U	4.3 U	4.6 U	4 U	4.1 U	4.2 U	4.2 U	4 U	4.1 U	3.9 U
Benzene	ug/kg		4 U	4.5 U	4 U	3.9 U	4.3 U	4.6 U	4 U	4.1 U	4.2 U	4.2 U	4 U	4.1 U	3.9 U
1,1,1-Trichloroethane	ug/kg		4 U	4.5 U	4 U	3.9 U	4.3 U	4.6 U	4 U	4.1 U	4.2 U	4.2 U	4 U	4.1 U	3.9 U
Bromomethane	ug/kg		4 U	4.5 U	4 U	3.9 U	4.3 U	4.6 U	4 U	4.1 U	4.2 U	4.2 U	4 U	4.1 U	3.9 U

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

Appendix A7
Volatile Organics - Validated Data
HSA-5B

	Sample Name	SL-088-SA5B-SB-3.0-4.0	SL-089-SA5B-SB-4.0-5.0	SL-090-SA5B-SB-2.5-3.5	SL-091-SA5B-SB-4.0-5.0	SL-092-SA5B-SB-4.0-5.0	SL-093-SA5B-SB-3.0-4.0	SL-094-SA5B-SB-4.0-5.0	SL-095-SA5B-SB-4.0-5.0	SL-096-SA5B-SB-2.0-3.0	SL-097-SA5B-SB-4.0-5.0	SL-097-SA5B-SB-7.0-8.0	SL-098-SA5B-SB-4.0-5.0	SL-099-SA5B-SB-4.0-5.0
	Sample Date	01/11/2011	01/11/2011	01/11/2011	01/11/2011	01/12/2011	01/11/2011	01/11/2011	01/12/2011	01/12/2011	01/12/2011	01/12/2011	01/12/2011	01/11/2011
	Lab SDG	DE057	DE057	DE057	DE057	DE059	DE057	DE057	DE058	DE058	DE059	DE059	DE059	DE057
	Start Depth	3	4	2.5	4	4	3	4	4	2	4	7	4	4
	End Depth	4	5	3.5	5	5	4	5	5	3	5	8	5	5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Chloromethane	ug/kg	4 U	4.5 U	4 U	3.9 U	4.3 U	4.6 U	4 U	4.1 U	4.2 U	4.2 U	4 U	4.1 U	3.9 U
Dibromomethane	ug/kg	4 U	4.5 U	4 U	3.9 U	4.3 U	4.6 U	4 U	4.1 U	4.2 U	4.2 U	4 U	4.1 U	3.9 U
Bromochloromethane	ug/kg	4 U	4.5 U	4 U	3.9 U	4.3 U	4.6 U	4 U	4.1 U	4.2 U	4.2 U	4 U	4.1 U	3.9 U
Chloroethane	ug/kg	4 U	4.5 U	4 U	3.9 U	4.3 U	4.6 U	4 U	4.1 U	4.2 U	4.2 U	4 U	4.1 U	3.9 U
Vinyl Chloride	ug/kg	4 U	4.5 U	4 U	3.9 U	4.3 U	4.6 U	4 U	4.1 U	4.2 U	4.2 U	4 U	4.1 U	3.9 U
Methylene chloride	ug/kg	4 U	4.5 U	4 U	3.9 U	0.76 J	4.6 U	4 U	0.59 J	0.76 J	1.3 J	0.7 J	0.62 J	3.9 U
Bromoform	ug/kg	4 U	4.5 U	4 U	3.9 U	4.3 U	4.6 U	4 U	4.1 U	4.2 U	4.2 U	4 U	4.1 U	3.9 U
Bromodichloromethane	ug/kg	4 U	4.5 U	4 U	3.9 U	4.3 U	4.6 U	4 U	4.1 U	4.2 U	4.2 U	4 U	4.1 U	3.9 U
1,1-Dichloroethane	ug/kg	4 U	4.5 U	4 U	3.9 U	4.3 U	4.6 U	4 U	4.1 U	4.2 U	4.2 U	4 U	4.1 U	3.9 U
1,1-Dichloroethene	ug/kg	4 U	4.5 U	4 U	3.9 U	4.3 U	4.6 U	4 U	4.1 U	4.2 U	4.2 U	4 U	4.1 U	3.9 U
Trichlorofluoromethane	ug/kg	4 U	4.5 U	4 U	3.9 U	4.3 U	4.6 U	4 U	4.1 U	4.2 U	4.2 U	4 U	4.1 U	3.9 U
Dichlorodifluoromethane	ug/kg	4 U	4.5 U	4 U	3.9 U	4.3 U	4.6 U	4 U	4.1 U	4.2 U	4.2 U	4 U	4.1 U	3.9 U
Freon 113a	ug/kg	4.9 U	5.7 U	5 U	4.9 U	5.4 U	5.8 U	5 U	5.2 U	5.2 U	5.3 U	5 U	5.1 U	4.9 U
Freon 113	ug/kg	4 U	4.5 U	4 U	3.9 U	4.3 U	4.6 U	4 U	4.1 U	4.2 U	4.2 U	4 U	4.1 U	3.9 U
1,2-Dichloropropane	ug/kg	4 U	4.5 U	4 U	3.9 U	4.3 U	4.6 U	4 U	4.1 U	4.2 U	4.2 U	4 U	4.1 U	3.9 U
2-Butanone	ug/kg	7.9 U	9.1 U	8 U	7.8 U	8.6 U	9.3 U	8 U	8.2 U	8.4 U	8.4 U	8 U	8.1 U	7.8 U
1,1,2-Trichloroethane	ug/kg	4 U	4.5 U	4 U	3.9 U	4.3 U	4.6 U	4 U	4.1 U	4.2 U	4.2 U	4 U	4.1 U	3.9 U
Trichloroethene	ug/kg	4 U	4.5 U	4 U	3.9 U	4.3 U	4.6 U	4 U	4.1 U	4.2 U	4.2 U	4 U	4.1 U	3.9 U
1,1,2,2-Tetrachloroethane	ug/kg	4 U	4.5 U	4 U	3.9 U	4.3 U	4.6 U	4 U	4.1 U	4.2 U	4.2 U	4 U	4.1 U	3.9 U
Chlorotrifluoroethene	ug/kg	4.9 U	5.7 U	5 U	4.9 U	5.4 UJ	5.8 U	5 U	5.2 U	5.2 U	5.3 UJ	5 UJ	5.1 UJ	4.9 U
1,2,3-Trichlorobenzene	ug/kg	4 U	4.5 U	4 U	3.9 U	4.3 U	4.6 U	4 U	4.1 U	4.2 U	4.2 U	4 U	4.1 U	3.9 U
o-Xylene	ug/kg	4 UJ	4.5 UJ	4 UJ	3.9 UJ	4.3 U	4.6 UJ	4 UJ	4.1 U	4.2 U	4.2 U	4 U	4.1 U	3.9 UJ
2-Chlorotoluene	ug/kg	4 U	4.5 U	4 U	3.9 U	4.3 U	4.6 U	4 U	4.1 U	4.2 U	4.2 U	4 U	4.1 U	3.9 U
1,2,4-Trimethylbenzene	ug/kg	4 U	4.5 U	4 U	3.9 U	4.3 U	4.6 U	4 U	4.1 U	4.2 U	4.2 U	4 U	4.1 U	3.9 U
1,2-Dibromo-3-chloropropane	ug/kg	4 U	4.5 U	4 U	3.9 U	4.3 U	4.6 U	4 U	4.1 U	4.2 U	4.2 U	4 U	4.1 U	3.9 U
1,2,3-Trichloropropane	ug/kg	4 U	4.5 U	4 U	3.9 U	4.3 U	4.6 U	4 U	4.1 U	4.2 U	4.2 U	4 U	4.1 U	3.9 U
tert-Butylbenzene	ug/kg	4 UJ	4.5 UJ	4 UJ	3.9 UJ	4.3 U	4.6 UJ	4 UJ	4.1 U	4.2 U	4.2 U	4 U	4.1 U	3.9 UJ
Isopropylbenzene	ug/kg	4 U	4.5 U	4 U	3.9 U	4.3 U	4.6 U	4 U	4.1 U	4.2 U	4.2 U	4 U	4.1 U	3.9 U

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

Appendix A7
Volatile Organics - Validated Data
HSA-5B

	Sample Name	SL-100-SA5B-SB-4.0-5.0	SL-101-SA5B-SB-4.0-5.0	SL-101-SA5B-SB-7.5-8.5	SL-103-SA5B-SB-4.0-5.0	SL-103-SA5B-SB-9.0-10.0	SL-104-SA5B-SB-4.0-5.0	SL-104-SA5B-SB-9.0-10.0	SL-105-SA5B-SB-4.0-5.0	SL-106-SA5B-SB-4.0-5.0	SL-107-SA5B-SB-4.0-5.0	SL-108-SA5B-SB-4.0-5.0	SL-109-SA5B-SB-4.0-5.0	SL-110-SA5B-SB-4.0-5.0
	Sample Date	01/11/2011	01/17/2011	01/17/2011	01/12/2011	01/12/2011	01/12/2011	01/12/2011	01/10/2011	01/10/2011	01/10/2011	01/10/2011	01/10/2011	01/10/2011
	Lab SDG	DE057	DE062	DE062	DE059	DE059	DE059	DE059	DE056	DE056	DE056	DE056	DE056	DE056
	Start Depth	4	4	7.5	4	9	4	9	4	4	4	4	4	4
	End Depth	5	5	8.5	5	10	5	10	5	5	5	5	5	5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
GRO (C5-C12)	mg/kg	0.9 U	1.1 U	0.9 U	1 U	1.1 U	1.1 U	1 U	--	--	--	--	--	--
EFH (C15-C20)	mg/kg	1.3 U	1.4 U	1.3 U	1.4 U	1.4 U	1.3 U	0.69 J	--	--	--	--	--	--
EFH (C21-C30)	mg/kg	1.3 U	0.77 J	1.3 U	3	7.6	5.2	12	--	--	--	--	--	--
EFH (C30-C40)	mg/kg	1.3 U	2.8	1.3 U	8.7	18	27	12	--	--	--	--	--	--
EFH (C8-C11)	mg/kg	1.3 U	1.4 U	1.3 U	1.4 U	1.4 U	1.3 U	1.3 U	--	--	--	--	--	--
1,4-Dichlorobenzene	ug/kg	4.4 U	4 U	4 U	4.1 U	3.8 U	4.3 U	4.3 U	4 U	4.4 U	3.9 U	4.3 U	3.8 U	4.8 U
1,2,4-Trichlorobenzene	ug/kg	4.4 U	4 U	4 U	4.1 U	3.8 U	4.3 U	4.3 U	4 U	4.4 U	3.9 U	4.3 U	3.8 U	4.8 U
1,3-Dichlorobenzene	ug/kg	4.4 U	4 U	4 U	4.1 U	3.8 U	4.3 U	4.3 U	4 U	4.4 U	3.9 U	4.3 U	3.8 U	4.8 U
Hexachlorobutadiene	ug/kg	4.4 U	4 U	4 U	4.1 U	3.8 U	4.3 U	4.3 U	4 U	4.4 U	3.9 U	4.3 U	3.8 U	4.8 U
1,2-Dichlorobenzene	ug/kg	4.4 U	4 U	4 U	4.1 U	3.8 U	4.3 U	4.3 U	4 U	4.4 U	3.9 U	4.3 U	3.8 U	4.8 U
Isopropyltoluene	ug/kg	4.4 U	4 U	4 U	4.1 U	3.8 U	4.3 U	4.3 U	4 U	4.4 U	3.9 U	4.3 U	3.8 U	4.8 U
Ethylbenzene	ug/kg	4.4 U	4 U	4 U	4.1 U	3.8 U	4.3 U	4.3 U	4 U	4.4 U	3.9 U	4.3 U	3.8 U	4.8 U
Styrene	ug/kg	4.4 U	4 U	4 U	4.1 U	3.8 U	4.3 U	4.3 U	4 U	4.4 U	3.9 U	4.3 U	3.8 U	4.8 U
cis-1,3-Dichloropropene	ug/kg	4.4 UJ	4 U	4 U	4.1 U	3.8 U	4.3 U	4.3 U	4 U	4.4 U	3.9 U	4.3 U	3.8 U	4.8 U
trans-1,3-Dichloropropene	ug/kg	4.4 U	4 U	4 U	4.1 U	3.8 U	4.3 U	4.3 U	4 U	4.4 U	3.9 U	4.3 U	3.8 U	4.8 U
N-Propylbenzene	ug/kg	4.4 U	4 U	4 U	4.1 U	3.8 U	4.3 U	4.3 U	4 U	4.4 U	3.9 U	4.3 U	3.8 U	4.8 U
N-Butylbenzene	ug/kg	4.4 U	4 U	4 U	4.1 U	3.8 U	4.3 U	4.3 U	4 U	4.4 U	3.9 U	4.3 U	3.8 U	4.8 U
4-Chlorotoluene	ug/kg	4.4 U	4 U	4 U	4.1 U	3.8 U	4.3 U	4.3 U	4 U	4.4 U	3.9 U	4.3 U	3.8 U	4.8 U
1,2-Dibromoethane	ug/kg	4.4 U	4 U	4 U	4.1 U	3.8 U	4.3 U	4.3 U	4 U	4.4 U	3.9 U	4.3 U	3.8 U	4.8 U
1,2-Dichloroethane	ug/kg	4.4 U	4 U	4 U	4.1 U	3.8 U	4.3 U	4.3 U	4 U	0.37 J	3.9 U	4.3 U	0.19 J	4.8 U
4-Methyl-2-Pentanone	ug/kg	8.7 U	7.9 UJ	8 UJ	8.2 U	7.7 U	8.7 U	8.6 U	7.9 U	8.8 U	7.8 U	8.7 U	7.5 U	9.5 U
1,3,5-Trimethylbenzene	ug/kg	4.4 U	4 U	4 U	4.1 U	3.8 U	4.3 U	4.3 U	4 U	4.4 U	3.9 U	4.3 U	3.8 U	4.8 U
Bromobenzene	ug/kg	4.4 U	4 U	4 U	4.1 U	3.8 U	4.3 U	4.3 U	4 U	4.4 U	3.9 U	4.3 U	3.8 U	4.8 U
Toluene	ug/kg	4.4 U	4 U	4 U	4.1 U	3.8 U	4.3 U	4.3 U	4 U	4.4 U	3.9 U	4.3 U	3.8 U	4.8 U
Chlorobenzene	ug/kg	4.4 U	4 U	4 U	4.1 U	3.8 U	4.3 U	4.3 U	4 U	4.4 U	3.9 U	4.3 U	3.8 U	4.8 U
2-Chloroethyl Vinyl Ether	ug/kg	4.4 U	4 U	4 U	4.1 U	3.8 U	4.3 U	4.3 U	4 U	4.4 U	3.9 U	4.3 U	3.8 U	4.8 U
1,4-Dioxane	ug/kg	15 U	15 U	15 U	14 U	14 U	15 U	14 U	16 U	16 U	15 U	14 U	14 U	15 U
Dibromochloromethane	ug/kg	4.4 U	4 U	4 U	4.1 U	3.8 U	4.3 U	4.3 U	4 U	4.4 U	3.9 U	4.3 U	3.8 U	4.8 U
Tetrachloroethene	ug/kg	4.4 U	4 U	4 U	4.1 U	3.8 U	4.3 U	4.3 U	4 U	4.4 U	3.9 U	4.3 U	3.8 U	4.8 U
sec-Butylbenzene	ug/kg	4.4 U	4 U	4 U	4.1 U	3.8 U	4.3 U	4.3 U	4 U	4.4 U	3.9 U	4.3 U	3.8 U	4.8 U
1,3-Dichloropropane	ug/kg	4.4 U	4 U	4 U	4.1 U	3.8 U	4.3 U	4.3 U	4 U	4.4 U	3.9 U	4.3 U	3.8 U	4.8 U
cis-1,2-Dichloroethene	ug/kg	4.4 U	4 U	4 U	4.1 U	3.8 U	4.3 U	4.3 U	4 U	4.4 U	3.9 U	4.3 U	3.8 U	4.8 U
trans-1,2-Dichloroethene	ug/kg	4.4 U	4 U	4 U	4.1 U	3.8 U	4.3 U	4.3 U	4 U	4.4 U	3.9 U	4.3 U	3.8 U	4.8 U
Methyl tert-Butyl Ether	ug/kg	4.4 U	4 U	4 U	4.1 U	3.8 U	4.3 U	4.3 U	4 U	4.4 U	3.9 U	4.3 U	3.8 U	4.8 U
m,p-Xylene	ug/kg	4.4 U	4 U	4 U	4.1 U	3.8 U	4.3 U	4.3 U	4 U	4.4 U	3.9 U	4.3 U	3.8 U	4.8 U
Carbon tetrachloride	ug/kg	4.4 U	4 U	4 U	4.1 U	3.8 U	4.3 U	4.3 U	4 U	4.4 U	3.9 U	4.3 U	3.8 U	4.8 U
1,1-Dichloropropene	ug/kg	4.4 U	4 U	4 U	4.1 U	3.8 U	4.3 U	4.3 U	4 U	4.4 U	3.9 U	4.3 U	3.8 U	4.8 U
2-Hexanone	ug/kg	8.7 U	7.9 U	8 U	8.2 UJ	7.7 UJ	8.7 UJ	8.6 UJ	7.9 U	8.8 U	7.8 U	8.7 U	7.5 U	9.5 U
2,2-Dichloropropane	ug/kg	4.4 U	4 U	4 U	4.1 U	3.8 U	4.3 U	4.3 U	4 U	4.4 U	3.9 U	4.3 U	3.8 U	4.8 U
1,1,1,2-Tetrachloroethane	ug/kg	4.4 U	4 U	4 U	4.1 U	3.8 U	4.3 U	4.3 U	4 U	4.4 U	3.9 U	4.3 U	3.8 U	4.8 U
Acetone	ug/kg	8.7 U	7.9 U	8 U	8.2 U	7.7 U	8.7 U	8.6 U	7.9 U	9.4	7.8 U	8.7 U	7.5 U	9.5 U
Chloroform	ug/kg	4.4 U	4 U	4 U	4.1 U	3.8 U	4.3 U	4.3 U	4 U	4.4 U	3.9 U	4.3 U	3.8 U	4.8 U
Benzene	ug/kg	4.4 U	4 U	4 U	4.1 U	3.8 U	4.3 U	4.3 U	4 U	4.4 U	3.9 U	4.3 U	3.8 U	4.8 U
1,1,1-Trichloroethane	ug/kg	4.4 U	4 U	4 U	4.1 U	3.8 U	4.3 U	4.3 U	4 U	4.4 U	3.9 U	4.3 U	3.8 U	4.8 U
Bromomethane	ug/kg	4.4 U	4 U	4 U	4.1 U	3.8 U	4.3 U	4.3 U	4 U	4.4 U	3.9 U	4.3 U	3.8 U	4.8 U

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

Appendix A7
Volatile Organics - Validated Data
HSA-5B

	Sample Name	SL-100-SA5B-SB-4.0-5.0	SL-101-SA5B-SB-4.0-5.0	SL-101-SA5B-SB-7.5-8.5	SL-103-SA5B-SB-4.0-5.0	SL-103-SA5B-SB-9.0-10.0	SL-104-SA5B-SB-4.0-5.0	SL-104-SA5B-SB-9.0-10.0	SL-105-SA5B-SB-4.0-5.0	SL-106-SA5B-SB-4.0-5.0	SL-107-SA5B-SB-4.0-5.0	SL-108-SA5B-SB-4.0-5.0	SL-109-SA5B-SB-4.0-5.0	SL-110-SA5B-SB-4.0-5.0
	Sample Date	01/11/2011	01/17/2011	01/17/2011	01/12/2011	01/12/2011	01/12/2011	01/12/2011	01/10/2011	01/10/2011	01/10/2011	01/10/2011	01/10/2011	01/10/2011
	Lab SDG	DE057	DE062	DE062	DE059	DE059	DE059	DE059	DE056	DE056	DE056	DE056	DE056	DE056
	Start Depth	4	4	7.5	4	9	4	9	4	4	4	4	4	4
	End Depth	5	5	8.5	5	10	5	10	5	5	5	5	5	5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Chloromethane	ug/kg	4.4 U	4 U	4 U	4.1 U	3.8 U	4.3 U	4.3 U	4 U	4.4 U	3.9 U	4.3 U	3.8 U	4.8 U
Dibromomethane	ug/kg	4.4 U	4 U	4 U	4.1 U	3.8 U	4.3 U	4.3 U	4 U	4.4 U	3.9 U	4.3 U	3.8 U	4.8 U
Bromochloromethane	ug/kg	4.4 U	4 U	4 U	4.1 U	3.8 U	4.3 U	4.3 U	4 U	4.4 U	3.9 U	4.3 U	3.8 U	4.8 U
Chloroethane	ug/kg	4.4 U	4 U	4 U	4.1 U	3.8 U	4.3 U	4.3 U	4 U	4.4 U	3.9 U	4.3 U	3.8 U	4.8 U
Vinyl Chloride	ug/kg	4.4 U	4 U	4 U	4.1 U	3.8 U	4.3 U	4.3 U	4 U	4.4 U	3.9 U	4.3 U	3.8 U	4.8 U
Methylene chloride	ug/kg	4.4 U	4 U	4 U	0.53 J	0.96 J	0.68 J	1.1 J	4 U	4.4 U	3.9 U	4.3 U	3.8 U	4.8 U
Bromoform	ug/kg	4.4 U	4 U	4 U	4.1 U	3.8 U	4.3 U	4.3 U	4 U	4.4 U	3.9 U	4.3 U	3.8 U	4.8 U
Bromodichloromethane	ug/kg	4.4 U	4 U	4 U	4.1 U	3.8 U	4.3 U	4.3 U	4 U	4.4 U	3.9 U	4.3 U	3.8 U	4.8 U
1,1-Dichloroethane	ug/kg	4.4 U	4 U	4 U	4.1 U	3.8 U	4.3 U	4.3 U	4 U	4.4 U	3.9 U	4.3 U	3.8 U	4.8 U
1,1-Dichloroethene	ug/kg	4.4 U	4 U	4 U	4.1 U	3.8 U	4.3 U	4.3 U	4 U	4.4 U	3.9 U	4.3 U	3.8 U	4.8 U
Trichlorofluoromethane	ug/kg	4.4 U	4 U	4 U	4.1 U	3.8 U	4.3 U	4.3 U	4 U	4.4 U	3.9 U	4.3 U	3.8 U	4.8 U
Dichlorodifluoromethane	ug/kg	4.4 U	4 U	4 U	4.1 U	3.8 U	4.3 U	4.3 U	4 U	4.4 U	3.9 U	4.3 U	3.8 U	4.8 U
Freon 113a	ug/kg	5.5 U	5 U	5 U	5.1 U	4.8 U	5.4 U	5.4 U	4.9 U	5.5 U	4.9 U	5.4 U	4.7 U	5.9 U
Freon 113	ug/kg	4.4 U	4 U	4 U	4.1 U	3.8 U	4.3 U	4.3 U	4 U	4.4 U	3.9 U	4.3 U	3.8 U	4.8 U
1,2-Dichloropropane	ug/kg	4.4 U	4 U	4 U	4.1 U	3.8 U	4.3 U	4.3 U	4 U	4.4 U	3.9 U	4.3 U	3.8 U	4.8 U
2-Butanone	ug/kg	8.7 U	7.9 U	8 U	8.2 U	7.7 U	8.7 U	8.6 U	7.9 U	8.8 U	7.8 U	8.7 U	7.5 U	9.5 U
1,1,2-Trichloroethane	ug/kg	4.4 U	4 U	4 U	4.1 U	3.8 U	4.3 U	4.3 U	4 U	4.4 U	3.9 U	4.3 U	3.8 U	4.8 U
Trichloroethene	ug/kg	4.4 U	4 U	4 U	4.1 U	3.8 U	4.3 U	4.3 U	4 U	4.4 U	3.9 U	4.3 U	3.8 U	4.8 U
1,1,2,2-Tetrachloroethane	ug/kg	4.4 U	4 U	4 U	4.1 U	3.8 U	4.3 U	4.3 U	4 U	4.4 U	3.9 U	4.3 U	3.8 U	4.8 U
Chlorotrifluoroethene	ug/kg	5.5 U	5 U	5 U	5.1 UJ	4.8 UJ	5.4 UJ	5.4 UJ	4.9 U	5.5 U	4.9 U	5.4 U	4.7 U	5.9 U
1,2,3-Trichlorobenzene	ug/kg	4.4 U	4 U	4 U	4.1 U	3.8 U	4.3 U	4.3 U	4 U	4.4 U	3.9 U	4.3 U	3.8 U	4.8 U
o-Xylene	ug/kg	4.4 UJ	4 U	4 U	4.1 U	3.8 U	4.3 U	4.3 U	4 U	4.4 U	3.9 U	4.3 U	3.8 U	4.8 U
2-Chlorotoluene	ug/kg	4.4 U	4 U	4 U	4.1 U	3.8 U	4.3 U	4.3 U	4 U	4.4 U	3.9 U	4.3 U	3.8 U	4.8 U
1,2,4-Trimethylbenzene	ug/kg	4.4 U	4 U	4 U	4.1 U	3.8 U	4.3 U	4.3 U	4 U	4.4 U	3.9 U	4.3 U	3.8 U	4.8 U
1,2-Dibromo-3-chloropropane	ug/kg	4.4 U	4 U	4 U	4.1 U	3.8 U	4.3 U	4.3 U	4 U	4.4 U	3.9 U	4.3 U	3.8 U	4.8 U
1,2,3-Trichloropropane	ug/kg	4.4 U	4 U	4 U	4.1 U	3.8 U	4.3 U	4.3 U	4 U	4.4 U	3.9 U	4.3 U	3.8 U	4.8 U
tert-Butylbenzene	ug/kg	4.4 UJ	4 U	4 U	4.1 U	3.8 U	4.3 U	4.3 U	4 U	4.4 U	3.9 U	4.3 U	3.8 U	4.8 U
Isopropylbenzene	ug/kg	4.4 U	4 U	4 U	4.1 U	3.8 U	4.3 U	4.3 U	4 U	4.4 U	3.9 U	4.3 U	3.8 U	4.8 U

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

Appendix A7
Volatile Organics - Validated Data
HSA-5B

	Sample Name	SL-111-SA5B-SB-4.0-5.0	SL-112-SA5B-SB-4.0-5.0	SL-113-SA5B-SB-4.0-5.0	SL-114-SA5B-SS-0.0-0.5	SL-114-SA5B-SB-4.0-5.0	SL-115-SA5B-SB-4.0-5.0	SL-116-SA5B-SB-4.0-5.0	SL-117-SA5B-SS-0.0-0.5	SL-117-SA5B-SB-4.0-5.0	SL-118-SA5B-SS-0.0-0.5	SL-118-SA5B-SB-4.0-5.0	SL-118-SA5B-SB-8.0-9.0	SL-119-SA5B-SB-3.0-4.0
	Sample Date	01/10/2011	01/17/2011	01/17/2011	12/22/2010	01/18/2011	01/18/2011	01/18/2011	12/22/2010	01/17/2011	12/22/2010	01/18/2011	01/18/2011	01/13/2011
	Lab SDG	DE056	DE062	DE062	DE051	DE063	DE063	DE063	DE051	DE062	DE051	DE063	DE063	DE060
	Start Depth	4	4	4	0	4	4	4	0	4	0	4	8	3
	End Depth	5	5	5	0.5	5	5	5	0.5	5	0.5	5	9	4
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
GRO (C5-C12)	mg/kg	--	1.1 U	1 U	10 U	1.1 U	1 U	1 U	1 U	1.1 U	1 U	1 U	1.1 U	--
EFH (C15-C20)	mg/kg	--	1.3 U	1.3 U	0.61 J	2.3 J	0.55 J	0.5 J	0.72 J	0.79 J	0.8 J	1.4 U	1.3 U	--
EFH (C21-C30)	mg/kg	--	0.94 J	7.5	2.6	47	6.7	1.3 J	8.7	2.4	7.5	0.75 J	0.51 J	--
EFH (C30-C40)	mg/kg	--	3.3	22	9.9	150	26	3.4	40	6.1	32	3.2	0.47 J	--
EFH (C8-C11)	mg/kg	--	1.3 U	1.3 U	1.5 U	6.5 U	1.3 U	1.4 U	1.5 U	1.4 U	1.4 U	1.4 U	1.3 U	--
1,4-Dichlorobenzene	ug/kg	3.7 U	4 U	4 U	4 U	4.4 U	4 U	4 U	4.2 U	4.3 U	4 U	4.5 U	4.4 U	4.6 U
1,2,4-Trichlorobenzene	ug/kg	3.7 U	4 U	4 U	4 U	4.4 U	4 U	4 U	4.2 U	4.3 U	4 U	4.5 U	4.4 U	4.6 U
1,3-Dichlorobenzene	ug/kg	3.7 U	4 U	4 U	4 U	4.4 U	4 U	4 U	4.2 U	4.3 U	4 U	4.5 U	4.4 U	4.6 U
Hexachlorobutadiene	ug/kg	3.7 U	4 U	4 U	4 U	4.4 U	4 U	4 U	4.2 U	4.3 U	4 U	4.5 U	4.4 U	4.6 U
1,2-Dichlorobenzene	ug/kg	3.7 U	4 U	4 U	4 U	4.4 U	4 U	4 U	4.2 U	4.3 U	4 U	4.5 U	4.4 U	4.6 U
Isopropyltoluene	ug/kg	3.7 U	4 U	4 U	4 U	4.4 U	4 U	4 U	4.2 U	4.3 U	4 U	4.5 U	4.4 U	4.6 U
Ethylbenzene	ug/kg	3.7 U	4 U	4 U	4 U	4.4 U	4 U	4 U	4.2 U	4.3 U	4 U	4.5 U	4.4 U	4.6 U
Styrene	ug/kg	3.7 U	4 U	4 U	4 U	4.4 U	4 U	4 U	4.2 U	4.3 U	4 U	4.5 U	4.4 U	4.6 U
cis-1,3-Dichloropropene	ug/kg	3.7 U	4 U	4 U	4 U	4.4 U	4 U	4 U	4.2 U	4.3 U	4 U	4.5 U	4.4 U	4.6 U
trans-1,3-Dichloropropene	ug/kg	3.7 U	4 U	4 U	4 U	4.4 U	4 U	4 U	4.2 U	4.3 U	4 U	4.5 U	4.4 U	4.6 U
N-Propylbenzene	ug/kg	3.7 U	4 U	4 U	4 U	4.4 U	4 U	4 U	4.2 U	4.3 U	4 U	4.5 U	4.4 U	4.6 U
N-Butylbenzene	ug/kg	3.7 U	4 U	4 U	4 U	4.4 U	4 U	4 U	4.2 U	4.3 U	4 U	4.5 U	4.4 U	4.6 U
4-Chlorotoluene	ug/kg	3.7 U	4 U	4 U	4 U	4.4 U	4 U	4 U	4.2 U	4.3 U	4 U	4.5 U	4.4 U	4.6 U
1,2-Dibromoethane	ug/kg	3.7 U	4 U	4 U	4 U	4.4 U	4 U	4 U	4.2 U	4.3 U	4 U	4.5 U	4.4 U	4.6 U
1,2-Dichloroethane	ug/kg	3.7 U	4 U	4 U	4 U	4.4 U	4 U	4 U	4.2 U	4.3 U	4 U	4.5 U	4.4 U	4.6 U
4-Methyl-2-Pentanone	ug/kg	7.4 U	8 UJ	8.1 UJ	8 U	8.9 UJ	8.1 UJ	7.9 UJ	8.4 U	8.6 UJ	8.1 U	9.1 UJ	8.9 UJ	9.2 U
1,3,5-Trimethylbenzene	ug/kg	3.7 U	4 U	4 U	4 U	4.4 U	4 U	4 U	4.2 U	4.3 U	4 U	4.5 U	4.4 U	4.6 U
Bromobenzene	ug/kg	3.7 U	4 U	4 U	4 U	4.4 U	4 U	4 U	4.2 U	4.3 U	4 U	4.5 U	4.4 U	4.6 U
Toluene	ug/kg	3.7 U	4 U	4 U	4 U	4.4 U	4 U	4 U	4.2 U	4.3 U	4 U	4.5 U	4.4 U	4.6 U
Chlorobenzene	ug/kg	3.7 U	4 U	4 U	4 U	4.4 U	4 U	4 U	4.2 U	4.3 U	4 U	4.5 U	4.4 U	4.6 U
2-Chloroethyl Vinyl Ether	ug/kg	3.7 U	4 U	4 U	4 U	4.4 U	4 U	4 U	4.2 U	4.3 U	4 U	4.5 U	4.4 U	4.6 U
1,4-Dioxane	ug/kg	15 U	14 U	16 U	15 U	17 U	15 U	15 U	16 U	18 U	15 U	15 U	17 U	17 U
Dibromochloromethane	ug/kg	3.7 U	4 U	4 U	4 U	4.4 U	4 U	4 U	4.2 U	4.3 U	4 U	4.5 U	4.4 U	4.6 U
Tetrachloroethene	ug/kg	3.7 U	4 U	4 U	4 U	4.4 U	4 U	4 U	4.2 U	4.3 U	4 U	4.5 U	4.4 U	4.6 U
sec-Butylbenzene	ug/kg	3.7 U	4 U	4 U	4 U	4.4 U	4 U	4 U	4.2 U	4.3 U	4 U	4.5 U	4.4 U	4.6 U
1,3-Dichloropropane	ug/kg	3.7 U	4 U	4 U	4 U	4.4 U	4 U	4 U	4.2 U	4.3 U	4 U	4.5 U	4.4 U	4.6 U
cis-1,2-Dichloroethene	ug/kg	3.7 U	4 U	4 U	4 U	4.4 U	4 U	4 U	4.2 U	4.3 U	4 U	4.5 U	4.4 U	4.6 U
trans-1,2-Dichloroethene	ug/kg	3.7 U	4 U	4 U	4 U	4.4 U	4 U	4 U	4.2 U	4.3 U	4 U	4.5 U	4.4 U	4.6 U
Methyl tert-Butyl Ether	ug/kg	3.7 U	4 U	4 U	4 U	4.4 U	4 U	4 U	4.2 U	4.3 U	4 U	4.5 U	4.4 U	4.6 U
m,p-Xylene	ug/kg	3.7 U	4 U	4 U	4 U	4.4 U	4 U	4 U	4.2 U	4.3 U	4 U	4.5 U	4.4 U	4.6 U
Carbon tetrachloride	ug/kg	3.7 U	4 U	4 U	4 U	4.4 U	4 U	4 U	4.2 U	4.3 U	4 U	4.5 U	4.4 U	4.6 U
1,1-Dichloropropene	ug/kg	3.7 U	4 U	4 U	4 U	4.4 U	4 U	4 U	4.2 U	4.3 U	4 U	4.5 U	4.4 U	4.6 U
2-Hexanone	ug/kg	7.4 U	8 U	8.1 U	8 U	8.9 U	8.1 U	7.9 U	8.4 U	8.6 U	8.1 U	9.1 U	8.9 U	9.2 U
2,2-Dichloropropane	ug/kg	3.7 U	4 U	4 U	4 U	4.4 U	4 U	4 U	4.2 U	4.3 U	4 U	4.5 U	4.4 U	4.6 U
1,1,1,2-Tetrachloroethane	ug/kg	3.7 U	4 U	4 U	4 U	4.4 U	4 U	4 U	4.2 U	4.3 U	4 U	4.5 U	4.4 U	4.6 U
Acetone	ug/kg	7.4 U	8 U	8.1 U	8 U	8.9 U	8.1 U	7.9 U	8.4 U	8.6 U	8.1 U	9.1 U	8.9 U	9.2 U
Chloroform	ug/kg	3.7 U	4 U	4 U	4 U	4.4 U	4 U	4 U	4.2 U	4.3 U	4 U	4.5 U	4.4 U	4.6 U
Benzene	ug/kg	3.7 U	4 U	4 U	4 U	4.4 U	4 U	4 U	4.2 U	4.3 U	4 U	4.5 U	4.4 U	4.6 U
1,1,1-Trichloroethane	ug/kg	3.7 U	4 U	4 U	4 U	4.4 U	4 U	4 U	4.2 U	4.3 U	4 U	4.5 U	4.4 U	4.6 U
Bromomethane	ug/kg	3.7 U	4 U	4 U	4 U	4.4 U	4 U	4 U	4.2 U	4.3 U	4 U	4.5 U	4.4 U	4.6 U

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

Appendix A7
Volatile Organics - Validated Data
HSA-5B

	Sample Name	SL-111-SA5B-SB-4.0-5.0	SL-112-SA5B-SB-4.0-5.0	SL-113-SA5B-SB-4.0-5.0	SL-114-SA5B-SS-0.0-0.5	SL-114-SA5B-SB-4.0-5.0	SL-115-SA5B-SB-4.0-5.0	SL-116-SA5B-SB-4.0-5.0	SL-117-SA5B-SS-0.0-0.5	SL-117-SA5B-SB-4.0-5.0	SL-118-SA5B-SS-0.0-0.5	SL-118-SA5B-SB-4.0-5.0	SL-118-SA5B-SB-8.0-9.0	SL-119-SA5B-SB-3.0-4.0
	Sample Date	01/10/2011	01/17/2011	01/17/2011	12/22/2010	01/18/2011	01/18/2011	01/18/2011	12/22/2010	01/17/2011	12/22/2010	01/18/2011	01/18/2011	01/13/2011
	Lab SDG	DE056	DE062	DE062	DE051	DE063	DE063	DE063	DE051	DE062	DE051	DE063	DE063	DE060
	Start Depth	4	4	4	0	4	4	4	0	4	0	4	8	3
	End Depth	5	5	5	0.5	5	5	5	0.5	5	0.5	5	9	4
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Chloromethane	ug/kg	3.7 U	4 U	4 U	4 U	4.4 U	4 U	4 U	4.2 U	4.3 U	4 U	4.5 U	4.4 U	4.6 U
Dibromomethane	ug/kg	3.7 U	4 U	4 U	4 U	4.4 U	4 U	4 U	4.2 U	4.3 U	4 U	4.5 U	4.4 U	4.6 U
Bromochloromethane	ug/kg	3.7 U	4 U	4 U	4 U	4.4 U	4 U	4 U	4.2 U	4.3 U	4 U	4.5 U	4.4 U	4.6 U
Chloroethane	ug/kg	3.7 U	4 U	4 U	4 U	4.4 U	4 U	4 U	4.2 U	4.3 U	4 U	4.5 U	4.4 U	4.6 U
Vinyl Chloride	ug/kg	3.7 U	4 U	4 U	4 U	4.4 U	4 U	4 U	4.2 U	4.3 U	4 U	4.5 U	4.4 U	4.6 U
Methylene chloride	ug/kg	3.7 U	4 U	4 U	4 U	4.4 U	4 U	4 U	4.2 U	4.3 U	4 U	4.5 U	4.4 U	4.6 U
Bromoform	ug/kg	3.7 U	4 U	4 U	4 U	4.4 U	4 U	4 U	4.2 U	4.3 U	4 U	4.5 U	4.4 U	4.6 U
Bromodichloromethane	ug/kg	3.7 U	4 U	4 U	4 U	4.4 U	4 U	4 U	4.2 U	4.3 U	4 U	4.5 U	4.4 U	4.6 U
1,1-Dichloroethane	ug/kg	3.7 U	4 U	4 U	4 U	4.4 U	4 U	4 U	4.2 U	4.3 U	4 U	4.5 U	4.4 U	4.6 U
1,1-Dichloroethene	ug/kg	3.7 U	4 U	4 U	4 U	4.4 U	4 U	4 U	4.2 U	4.3 U	4 U	4.5 U	4.4 U	4.6 U
Trichlorofluoromethane	ug/kg	3.7 U	4 U	4 U	4 U	4.4 U	4 U	4 U	4.2 U	4.3 U	4 U	4.5 U	4.4 U	4.6 U
Dichlorodifluoromethane	ug/kg	3.7 U	4 U	4 U	4 U	4.4 U	4 U	4 U	4.2 U	4.3 U	4 U	4.5 U	4.4 U	4.6 U
Freon 113a	ug/kg	4.6 U	5 U	5 U	5 U	5.6 U	5 U	5 U	5.2 U	5.4 U	5.1 U	5.7 U	5.6 U	5.8 U
Freon 113	ug/kg	3.7 U	4 U	4 U	4 U	4.4 U	4 U	4 U	4.2 U	4.3 U	4 U	4.5 U	4.4 U	4.6 U
1,2-Dichloropropane	ug/kg	3.7 U	4 U	4 U	4 U	4.4 U	4 U	4 U	4.2 U	4.3 U	4 U	4.5 U	4.4 U	4.6 U
2-Butanone	ug/kg	7.4 U	8 U	8.1 U	8 U	8.9 U	8.1 U	7.9 U	8.4 U	8.6 U	8.1 U	9.1 U	8.9 U	9.2 U
1,1,2-Trichloroethane	ug/kg	3.7 U	4 U	4 U	4 U	4.4 U	4 U	4 U	4.2 U	4.3 U	4 U	4.5 U	4.4 U	4.6 U
Trichloroethene	ug/kg	3.7 U	4 U	4 U	4 U	4.4 U	4 U	4 U	4.2 U	4.3 U	4 U	4.5 U	4.4 U	4.6 U
1,1,2,2-Tetrachloroethane	ug/kg	3.7 U	4 U	4 U	4 U	4.4 U	4 U	4 U	4.2 U	4.3 U	4 U	4.5 U	4.4 U	4.6 U
Chlorotrifluoroethene	ug/kg	4.6 U	5 U	5 U	5 U	5.6 U	5 U	5 U	5.2 U	5.4 U	5.1 U	5.7 U	5.6 U	5.8 U
1,2,3-Trichlorobenzene	ug/kg	3.7 U	4 U	4 U	4 U	4.4 U	4 U	4 U	4.2 U	4.3 U	4 U	4.5 U	4.4 U	4.6 U
o-Xylene	ug/kg	3.7 U	4 U	4 U	4 U	4.4 U	4 U	4 U	4.2 U	4.3 U	4 U	4.5 U	4.4 U	4.6 U
2-Chlorotoluene	ug/kg	3.7 U	4 U	4 U	4 U	4.4 U	4 U	4 U	4.2 U	4.3 U	4 U	4.5 U	4.4 U	4.6 U
1,2,4-Trimethylbenzene	ug/kg	3.7 U	4 U	4 U	4 U	4.4 U	4 U	4 U	4.2 U	4.3 U	4 U	4.5 U	4.4 U	4.6 U
1,2-Dibromo-3-chloropropane	ug/kg	3.7 U	4 U	4 U	4 U	4.4 U	4 U	4 U	4.2 U	4.3 U	4 U	4.5 U	4.4 U	4.6 U
1,2,3-Trichloropropane	ug/kg	3.7 U	4 U	4 U	4 U	4.4 U	4 U	4 U	4.2 U	4.3 U	4 U	4.5 U	4.4 U	4.6 U
tert-Butylbenzene	ug/kg	3.7 U	4 U	4 U	4 U	4.4 U	4 U	4 U	4.2 U	4.3 U	4 U	4.5 U	4.4 U	4.6 U
Isopropylbenzene	ug/kg	3.7 U	4 U	4 U	4 U	4.4 U	4 U	4 U	4.2 U	4.3 U	4 U	4.5 U	4.4 U	4.6 U

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

Appendix A7
Volatile Organics - Validated Data
HSA-5B

	Sample Name	SL-120-SA5B-SB-3.0-4.0	SL-121-SA5B-SB-4.0-5.0	SL-122-SA5B-SB-2.0-3.0	SL-124-SA5B-SB-4.0-5.0	SL-125-SA5B-SB-4.0-5.0	SL-126-SA5B-SB-2.0-3.0	SL-128-SA5B-SB-4.0-5.0	SL-129-SA5B-SB-2.0-3.0	SL-145-SA5B-SB-4.0-5.0	SL-146-SA5B-SB-4.0-5.0	SL-148-SA5B-SB-4.0-5.0	SL-149-SA5B-SB-3.5-4.5	SL-150-SA5B-SB-4.0-5.0
	Sample Date	01/13/2011	01/13/2011	01/13/2011	01/14/2011	01/14/2011	01/14/2011	01/14/2011	01/14/2011	12/22/2010	01/04/2011	01/25/2011	01/25/2011	01/25/2011
	Lab SDG	DE060	DE060	DE060	DE061	DE061	DE061	DE061	DE061	DE051	DE052	DE068	DE068	DE068
	Start Depth	3	4	2	4	4	2	4	2	4	4	4	3.5	4
	End Depth	4	5	3	5	5	3	5	3	5	5	5	4.5	5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
GRO (C5-C12)	mg/kg	--	--	--	--	--	--	--	--	1.2 U	1 U	1 U	--	--
EFH (C15-C20)	mg/kg	--	--	--	--	--	--	--	--	0.94 J	1.4 U	1.4 U	--	--
EFH (C21-C30)	mg/kg	--	--	--	--	--	--	--	--	18	1.4 U	1.3 J	--	--
EFH (C30-C40)	mg/kg	--	--	--	--	--	--	--	--	53	1.4 U	3.9	--	--
EFH (C8-C11)	mg/kg	--	--	--	--	--	--	--	--	1.4 U	1.4 U	1.4 U	--	--
1,4-Dichlorobenzene	ug/kg	4.3 U	3.9 U	4.7 U	3.9 U	4.2 U	4.3 U	4 U	4 U	3.7 U	3.7 U	4 U	4.2 U	4.1 U
1,2,4-Trichlorobenzene	ug/kg	4.3 U	3.9 U	4.7 U	3.9 U	4.2 U	4.3 U	4 U	4 U	3.7 U	3.7 U	4 U	4.2 U	4.1 U
1,3-Dichlorobenzene	ug/kg	4.3 U	3.9 U	4.7 U	3.9 U	4.2 U	4.3 U	4 U	4 U	3.7 U	3.7 U	4 U	4.2 U	4.1 U
Hexachlorobutadiene	ug/kg	4.3 U	3.9 U	4.7 U	3.9 U	4.2 U	4.3 U	4 U	4 U	3.7 U	3.7 U	4 U	4.2 U	4.1 U
1,2-Dichlorobenzene	ug/kg	4.3 U	3.9 U	4.7 U	3.9 U	4.2 U	4.3 U	4 U	4 U	3.7 U	3.7 U	4 U	4.2 U	4.1 U
Isopropyltoluene	ug/kg	4.3 U	3.9 U	4.7 U	3.9 U	4.2 U	4.3 U	4 U	4 U	3.7 U	3.7 U	4 U	4.2 U	4.1 U
Ethylbenzene	ug/kg	4.3 U	3.9 U	4.7 U	3.9 U	4.2 U	4.3 U	4 U	4 U	3.7 U	3.7 U	4 U	4.2 U	4.1 U
Styrene	ug/kg	4.3 U	3.9 U	4.7 U	3.9 U	4.2 U	4.3 U	4 U	4 U	3.7 U	3.7 U	4 U	4.2 U	4.1 U
cis-1,3-Dichloropropene	ug/kg	4.3 U	3.9 U	4.7 U	3.9 U	4.2 U	4.3 U	4 U	4 U	3.7 U	3.7 U	4 U	4.2 U	4.1 U
trans-1,3-Dichloropropene	ug/kg	4.3 U	3.9 U	4.7 U	3.9 U	4.2 U	4.3 U	4 U	4 U	3.7 U	3.7 U	4 U	4.2 U	4.1 U
N-Propylbenzene	ug/kg	4.3 U	3.9 U	4.7 U	3.9 U	4.2 U	4.3 U	4 U	4 U	3.7 U	3.7 U	4 U	4.2 U	4.1 U
N-Butylbenzene	ug/kg	4.3 U	3.9 U	4.7 U	3.9 U	4.2 U	4.3 U	4 U	4 U	3.7 U	3.7 U	4 U	4.2 U	4.1 U
4-Chlorotoluene	ug/kg	4.3 U	3.9 U	4.7 U	3.9 U	4.2 U	4.3 U	4 U	4 U	3.7 U	3.7 U	4 U	4.2 U	4.1 U
1,2-Dibromoethane	ug/kg	4.3 U	3.9 U	4.7 U	3.9 U	4.2 U	4.3 U	4 U	4 U	3.7 U	3.7 U	4 U	4.2 U	4.1 U
1,2-Dichloroethane	ug/kg	4.3 U	3.9 U	4.7 U	3.9 U	4.2 U	4.3 U	4 U	4 U	3.7 U	3.7 U	4 U	4.2 U	4.1 U
4-Methyl-2-Pentanone	ug/kg	8.6 U	7.8 U	9.4 U	7.9 U	8.3 U	8.6 U	8 U	8 U	7.5 U	7.4 U	7.9 U	8.4 U	8.1 U
1,3,5-Trimethylbenzene	ug/kg	4.3 U	3.9 U	4.7 U	3.9 U	4.2 U	4.3 U	4 U	4 U	3.7 U	3.7 U	4 U	4.2 U	4.1 U
Bromobenzene	ug/kg	4.3 U	3.9 U	4.7 U	3.9 U	4.2 U	4.3 U	4 U	4 U	3.7 U	3.7 U	4 U	4.2 U	4.1 U
Toluene	ug/kg	4.3 U	3.9 U	4.7 U	3.9 U	4.2 U	4.3 U	4 U	4 U	3.7 U	3.7 U	4 U	4.2 U	4.1 U
Chlorobenzene	ug/kg	4.3 U	3.9 U	4.7 U	3.9 U	4.2 U	4.3 U	4 U	4 U	3.7 U	3.7 U	4 U	4.2 U	4.1 U
2-Chloroethyl Vinyl Ether	ug/kg	4.3 U	3.9 U	4.7 U	3.9 U	4.2 U	4.3 U	4 U	4 U	3.7 U	3.7 U	4 U	4.2 U	4.1 U
1,4-Dioxane	ug/kg	16 U	15 U	18 U	16 U	15 U	16 U	15 U	14 U	13 U	15 U	14 U	15 U	17 U
Dibromochloromethane	ug/kg	4.3 U	3.9 U	4.7 U	3.9 U	4.2 U	4.3 U	4 U	4 U	3.7 U	3.7 U	4 U	4.2 U	4.1 U
Tetrachloroethene	ug/kg	4.3 U	3.9 U	4.7 U	3.9 U	4.2 U	4.3 U	4 U	4 U	3.7 U	3.7 U	4 U	4.2 U	4.1 U
sec-Butylbenzene	ug/kg	4.3 U	3.9 U	4.7 U	3.9 U	4.2 U	4.3 U	4 U	4 U	3.7 U	3.7 U	4 U	4.2 U	4.1 U
1,3-Dichloropropane	ug/kg	4.3 U	3.9 U	4.7 U	3.9 U	4.2 U	4.3 U	4 U	4 U	3.7 U	3.7 U	4 U	4.2 U	4.1 U
cis-1,2-Dichloroethene	ug/kg	4.3 U	3.9 U	4.7 U	3.9 U	4.2 U	4.3 U	4 U	4 U	3.7 U	3.7 U	4 U	4.2 U	4.1 U
trans-1,2-Dichloroethene	ug/kg	4.3 U	3.9 U	4.7 U	3.9 U	4.2 U	4.3 U	4 U	4 U	3.7 U	3.7 U	4 U	4.2 U	4.1 U
Methyl tert-Butyl Ether	ug/kg	4.3 U	3.9 U	4.7 U	3.9 U	4.2 U	4.3 U	4 U	4 U	3.7 U	3.7 U	4 U	4.2 U	4.1 U
m,p-Xylene	ug/kg	4.3 U	3.9 U	4.7 U	3.9 U	4.2 U	4.3 U	4 U	4 U	3.7 U	3.7 U	4 U	4.2 U	4.1 U
Carbon tetrachloride	ug/kg	4.3 U	3.9 U	4.7 U	3.9 U	4.2 U	4.3 U	4 U	4 U	3.7 U	3.7 U	4 U	4.2 U	4.1 U
1,1-Dichloropropene	ug/kg	4.3 U	3.9 U	4.7 U	3.9 U	4.2 U	4.3 U	4 U	4 U	3.7 U	3.7 U	4 U	4.2 U	4.1 U
2-Hexanone	ug/kg	8.6 U	7.8 U	9.4 U	7.9 U	8.3 U	8.6 U	8 U	8 U	7.5 U	7.4 U	7.9 U	8.4 U	8.1 U
2,2-Dichloropropane	ug/kg	4.3 U	3.9 U	4.7 U	3.9 U	4.2 U	4.3 U	4 U	4 U	3.7 U	3.7 U	4 U	4.2 U	4.1 U
1,1,1,2-Tetrachloroethane	ug/kg	4.3 U	3.9 U	4.7 U	3.9 U	4.2 U	4.3 U	4 U	4 U	3.7 U	3.7 U	4 U	4.2 U	4.1 U
Acetone	ug/kg	8.6 U	7.8 U	9.4 U	7.9 U	8.3 U	8.6 U	8 U	8 U	7.5 U	7.4 U	7.9 U	8.4 U	8.1 U
Chloroform	ug/kg	4.3 U	3.9 U	4.7 U	3.9 U	4.2 U	4.3 U	4 U	4 U	3.7 U	3.7 U	4 U	4.2 U	4.1 U
Benzene	ug/kg	4.3 U	3.9 U	4.7 U	3.9 U	4.2 U	4.3 U	4 U	4 U	3.7 U	3.7 U	4 U	4.2 U	4.1 U
1,1,1-Trichloroethane	ug/kg	4.3 U	3.9 U	4.7 U	3.9 U	4.2 U	4.3 U	4 U	4 U	3.7 U	3.7 U	4 U	4.2 U	4.1 U
Bromomethane	ug/kg	4.3 U	3.9 U	4.7 U	3.9 U	4.2 U	4.3 U	4 U	4 U	3.7 U	3.7 U	4 U	4.2 U	4.1 U

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

Appendix A7
Volatile Organics - Validated Data
HSA-5B

	Sample Name	SL-120-SA5B-SB-3.0-4.0	SL-121-SA5B-SB-4.0-5.0	SL-122-SA5B-SB-2.0-3.0	SL-124-SA5B-SB-4.0-5.0	SL-125-SA5B-SB-4.0-5.0	SL-126-SA5B-SB-2.0-3.0	SL-128-SA5B-SB-4.0-5.0	SL-129-SA5B-SB-2.0-3.0	SL-145-SA5B-SB-4.0-5.0	SL-146-SA5B-SB-4.0-5.0	SL-148-SA5B-SB-4.0-5.0	SL-149-SA5B-SB-3.5-4.5	SL-150-SA5B-SB-4.0-5.0
	Sample Date	01/13/2011	01/13/2011	01/13/2011	01/14/2011	01/14/2011	01/14/2011	01/14/2011	01/14/2011	12/22/2010	01/04/2011	01/25/2011	01/25/2011	01/25/2011
	Lab SDG	DE060	DE060	DE060	DE061	DE061	DE061	DE061	DE061	DE051	DE052	DE068	DE068	DE068
	Start Depth	3	4	2	4	4	2	4	2	4	4	4	3.5	4
	End Depth	4	5	3	5	5	3	5	3	5	5	5	4.5	5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Chloromethane	ug/kg	4.3 U	3.9 U	4.7 U	3.9 U	4.2 U	4.3 U	4 U	4 U	3.7 U	3.7 U	4 U	4.2 U	4.1 U
Dibromomethane	ug/kg	4.3 U	3.9 U	4.7 U	3.9 U	4.2 U	4.3 U	4 U	4 U	3.7 U	3.7 U	4 U	4.2 U	4.1 U
Bromochloromethane	ug/kg	4.3 U	3.9 U	4.7 U	3.9 U	4.2 U	4.3 U	4 U	4 U	3.7 U	3.7 U	4 U	4.2 U	4.1 U
Chloroethane	ug/kg	4.3 U	3.9 U	4.7 U	3.9 U	4.2 U	4.3 U	4 U	4 U	3.7 U	3.7 U	4 U	4.2 U	4.1 U
Vinyl Chloride	ug/kg	4.3 U	3.9 U	4.7 U	3.9 U	4.2 U	4.3 U	4 U	4 U	3.7 U	3.7 U	4 U	4.2 U	4.1 U
Methylene chloride	ug/kg	4.3 U	3.9 U	4.7 U	3.9 U	4.2 U	4.3 U	4 U	4 U	3.7 U	0.39 J	4 U	4.2 U	4.1 U
Bromoform	ug/kg	4.3 U	3.9 U	4.7 U	3.9 U	4.2 U	4.3 U	4 U	4 U	3.7 U	3.7 U	4 U	4.2 U	4.1 U
Bromodichloromethane	ug/kg	4.3 U	3.9 U	4.7 U	3.9 U	4.2 U	4.3 U	4 U	4 U	3.7 U	3.7 U	4 U	4.2 U	4.1 U
1,1-Dichloroethane	ug/kg	4.3 U	3.9 U	4.7 U	3.9 U	4.2 U	4.3 U	4 U	4 U	3.7 U	3.7 U	4 U	4.2 U	4.1 U
1,1-Dichloroethene	ug/kg	4.3 U	3.9 U	4.7 U	3.9 U	4.2 U	4.3 U	4 U	4 U	3.7 U	3.7 U	4 U	4.2 U	4.1 U
Trichlorofluoromethane	ug/kg	4.3 U	3.9 U	4.7 U	3.9 U	4.2 U	4.3 U	4 U	4 U	3.7 U	3.7 U	4 U	4.2 U	4.1 U
Dichlorodifluoromethane	ug/kg	4.3 U	3.9 U	4.7 U	3.9 U	4.2 U	4.3 U	4 U	4 U	3.7 U	3.7 U	4 U	4.2 U	4.1 U
Freon 113a	ug/kg	5.4 U	4.9 U	5.9 U	4.9 U	5.2 U	5.4 U	5 U	5 U	4.7 U	4.6 U	4.9 UJ	5.2 UJ	5.1 UJ
Freon 113	ug/kg	4.3 U	3.9 U	4.7 U	3.9 U	4.2 U	4.3 U	4 U	4 U	3.7 U	3.7 U	4 U	4.2 U	4.1 U
1,2-Dichloropropane	ug/kg	4.3 U	3.9 U	4.7 U	3.9 U	4.2 U	4.3 U	4 U	4 U	3.7 U	3.7 U	4 U	4.2 U	4.1 U
2-Butanone	ug/kg	8.6 U	7.8 U	9.4 U	7.9 U	8.3 U	8.6 U	8 U	8 U	7.5 U	7.4 U	7.9 U	8.4 U	8.1 U
1,1,2-Trichloroethane	ug/kg	4.3 U	3.9 U	4.7 U	3.9 U	4.2 U	4.3 U	4 U	4 U	3.7 U	3.7 U	4 U	4.2 U	4.1 U
Trichloroethene	ug/kg	4.3 U	3.9 U	4.7 U	3.9 U	4.2 U	4.3 U	4 U	4 U	3.7 U	3.7 U	4 U	4.2 U	4.1 U
1,1,2,2-Tetrachloroethane	ug/kg	4.3 U	3.9 U	4.7 U	3.9 U	4.2 U	4.3 U	4 U	4 U	3.7 U	3.7 U	4 U	4.2 U	4.1 U
Chlorotrifluoroethene	ug/kg	5.4 U	4.9 U	5.9 U	4.9 U	5.2 U	5.4 U	5 U	5 U	4.7 U	4.6 U	4.9 U	5.2 U	5.1 U
1,2,3-Trichlorobenzene	ug/kg	4.3 U	3.9 U	4.7 U	3.9 U	4.2 U	4.3 U	4 U	4 U	3.7 U	3.7 U	4 U	4.2 U	4.1 U
o-Xylene	ug/kg	4.3 U	3.9 U	4.7 U	3.9 U	4.2 U	4.3 U	4 U	4 U	3.7 U	3.7 U	4 U	4.2 U	4.1 U
2-Chlorotoluene	ug/kg	4.3 U	3.9 U	4.7 U	3.9 U	4.2 U	4.3 U	4 U	4 U	3.7 U	3.7 U	4 U	4.2 U	4.1 U
1,2,4-Trimethylbenzene	ug/kg	4.3 U	3.9 U	4.7 U	3.9 U	4.2 U	4.3 U	4 U	4 U	3.7 U	3.7 U	4 U	4.2 U	4.1 U
1,2-Dibromo-3-chloropropane	ug/kg	4.3 U	3.9 U	4.7 U	3.9 U	4.2 U	4.3 U	4 U	4 U	3.7 U	3.7 U	4 U	4.2 U	4.1 U
1,2,3-Trichloropropane	ug/kg	4.3 U	3.9 U	4.7 U	3.9 U	4.2 U	4.3 U	4 U	4 U	3.7 U	3.7 U	4 U	4.2 U	4.1 U
tert-Butylbenzene	ug/kg	4.3 U	3.9 U	4.7 U	3.9 U	4.2 U	4.3 U	4 U	4 U	3.7 U	3.7 U	4 U	4.2 U	4.1 U
Isopropylbenzene	ug/kg	4.3 U	3.9 U	4.7 U	3.9 U	4.2 U	4.3 U	4 U	4 U	3.7 U	3.7 U	4 U	4.2 U	4.1 U

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

Appendix A7
Volatile Organics - Validated Data
HSA-5B

	Sample Name	SL-151-SA5B-SB-4.0-5.0	SL-152-SA5B-SB-4.0-5.0	SL-153-SA5B-SB-4.0-5.0	SL-154-SA5B-SB-4.0-5.0	SL-155-SA5B-SB-3.5-4.5	SL-156-SA5B-SB-4.0-5.0	SL-157-SA5B-SB-4.0-5.0	SL-158-SA5B-SB-4.0-5.0	SL-159-SA5B-SB-4.0-5.0	SL-159-SA5B-SB-8.0-9.0	SL-160-SA5B-SB-4.0-5.0	SL-161-SA5B-SB-4.0-5.0	SL-162-SA5B-SB-4.0-5.0
	Sample Date	01/24/2011	01/24/2011	01/24/2011	01/24/2011	01/24/2011	01/25/2011	12/22/2010	12/22/2010	02/04/2011	02/04/2011	02/07/2011	02/07/2011	02/07/2011
	Lab SDG	DE067	DE067	DE067	DE067	DE067	DE068	DE051	DE051	DE076	DE076	DE077	DE077	DE077
	Start Depth	4	4	4	4	3.5	4	4	4	4	8	4	4	4
	End Depth	5	5	5	5	4.5	5	5	5	5	9	5	5	5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
GRO (C5-C12)	mg/kg	--	--	--	1 U	1.1 U	1 U	--	--	--	--	--	--	--
EFH (C15-C20)	mg/kg	--	--	--	1.4 U	1.4 U	1.4 U	--	--	--	--	--	--	--
EFH (C21-C30)	mg/kg	--	--	--	1.4 U	1.4 U	0.96 J	--	--	--	--	--	--	--
EFH (C30-C40)	mg/kg	--	--	--	1.4 U	1.4 U	4.1	--	--	--	--	--	--	--
EFH (C8-C11)	mg/kg	--	--	--	1.4 U	1.4 U	1.4 U	--	--	--	--	--	--	--
1,4-Dichlorobenzene	ug/kg	4.2 U	3.8 U	3.8 U	4 U	4.5 U	4.3 U	3.8 U	4.2 U	3.7 U	4.7 U	5 U	4.5 U	4.8 U
1,2,4-Trichlorobenzene	ug/kg	4.2 U	3.8 U	3.8 U	4 U	4.5 U	4.3 U	3.8 U	4.2 U	3.7 U	4.7 U	5 U	4.5 U	4.8 U
1,3-Dichlorobenzene	ug/kg	4.2 U	3.8 U	3.8 U	4 U	4.5 U	4.3 U	3.8 U	4.2 U	3.7 U	4.7 U	5 U	4.5 U	4.8 U
Hexachlorobutadiene	ug/kg	4.2 U	3.8 U	3.8 U	4 U	4.5 U	4.3 U	3.8 U	4.2 U	3.7 U	4.7 U	5 U	4.5 U	4.8 U
1,2-Dichlorobenzene	ug/kg	4.2 U	3.8 U	3.8 U	4 U	4.5 U	4.3 U	3.8 U	4.2 U	3.7 U	4.7 U	5 U	4.5 U	4.8 U
Isopropyltoluene	ug/kg	4.2 U	3.8 U	3.8 U	4 U	4.5 U	4.3 U	3.8 U	4.2 U	3.7 U	4.7 U	5 U	4.5 U	4.8 U
Ethylbenzene	ug/kg	4.2 U	3.8 U	3.8 U	4 U	4.5 U	4.3 U	3.8 U	4.2 U	3.7 U	4.7 U	5 U	4.5 U	0.13 J
Styrene	ug/kg	4.2 U	3.8 U	3.8 U	4 U	4.5 U	4.3 U	3.8 U	4.2 U	3.7 U	4.7 U	5 U	4.5 U	4.8 U
cis-1,3-Dichloropropene	ug/kg	4.2 U	3.8 U	3.8 U	4 U	4.5 U	4.3 U	3.8 U	4.2 U	3.7 UJ	4.7 UJ	5 U	4.5 U	4.8 U
trans-1,3-Dichloropropene	ug/kg	4.2 U	3.8 U	3.8 U	4 U	4.5 U	4.3 U	3.8 U	4.2 U	3.7 U	4.7 U	5 U	4.5 U	4.8 U
N-Propylbenzene	ug/kg	4.2 U	3.8 U	3.8 U	4 U	4.5 U	4.3 U	3.8 U	4.2 U	3.7 U	4.7 U	5 U	4.5 U	4.8 U
N-Butylbenzene	ug/kg	4.2 U	3.8 U	3.8 U	4 U	4.5 U	4.3 U	3.8 U	4.2 U	3.7 U	4.7 U	5 U	4.5 U	4.8 U
4-Chlorotoluene	ug/kg	4.2 U	3.8 U	3.8 U	4 U	4.5 U	4.3 U	3.8 U	4.2 U	3.7 U	4.7 U	5 U	4.5 U	4.8 U
1,2-Dibromoethane	ug/kg	4.2 U	3.8 U	3.8 U	4 U	4.5 U	4.3 U	3.8 U	4.2 U	3.7 U	4.7 U	5 U	4.5 U	4.8 U
1,2-Dichloroethane	ug/kg	4.2 U	3.8 U	3.8 U	4 U	4.5 U	4.3 U	3.8 U	4.2 U	3.7 U	4.7 U	5 U	4.5 U	4.8 U
4-Methyl-2-Pentanone	ug/kg	8.4 U	7.6 U	7.7 U	8 U	9 U	8.5 U	7.6 U	8.5 U	7.4 U	9.4 U	10 U	9 U	9.6 U
1,3,5-Trimethylbenzene	ug/kg	4.2 U	3.8 U	3.8 U	4 U	4.5 U	4.3 U	3.8 U	4.2 U	3.7 U	4.7 U	5 U	4.5 U	4.8 U
Bromobenzene	ug/kg	4.2 U	3.8 U	3.8 U	4 U	4.5 U	4.3 U	3.8 U	4.2 U	3.7 U	4.7 U	5 U	4.5 U	4.8 U
Toluene	ug/kg	4.2 U	3.8 U	3.8 U	4 U	4.5 U	4.3 U	3.8 U	4.2 U	3.7 U	4.7 U	5 U	4.5 U	4.8 U
Chlorobenzene	ug/kg	4.2 U	3.8 U	3.8 U	4 U	4.5 U	4.3 U	3.8 U	4.2 U	3.7 U	4.7 U	5 U	4.5 U	4.8 U
2-Chloroethyl Vinyl Ether	ug/kg	4.2 U	3.8 U	3.8 U	4 U	4.5 U	4.3 U	3.8 U	4.2 U	3.7 U	4.7 U	5 U	4.5 U	4.8 U
1,4-Dioxane	ug/kg	16 U	14 U	14 U	14 U	16 U	15 U	15 U	17 U	14 U	16 U	20 U	16 U	17 U
Dibromochloromethane	ug/kg	4.2 U	3.8 U	3.8 U	4 U	4.5 U	4.3 U	3.8 U	4.2 U	3.7 U	4.7 U	5 U	4.5 U	4.8 U
Tetrachloroethene	ug/kg	4.2 U	3.8 U	3.8 U	4 U	4.5 U	4.3 U	3.8 U	4.2 U	3.7 U	4.7 U	5 U	4.5 U	4.8 U
sec-Butylbenzene	ug/kg	4.2 U	3.8 U	3.8 U	4 U	4.5 U	4.3 U	3.8 U	4.2 U	3.7 U	4.7 U	5 U	4.5 U	4.8 U
1,3-Dichloropropane	ug/kg	4.2 U	3.8 U	3.8 U	4 U	4.5 U	4.3 U	3.8 U	4.2 U	3.7 U	4.7 U	5 U	4.5 U	4.8 U
cis-1,2-Dichloroethene	ug/kg	4.2 U	3.8 U	3.8 U	4 U	4.5 U	4.3 U	3.8 U	4.2 U	3.7 U	4.7 U	5 U	4.5 U	4.8 U
trans-1,2-Dichloroethene	ug/kg	4.2 U	3.8 U	3.8 U	4 U	4.5 U	4.3 U	3.8 U	4.2 U	3.7 U	4.7 U	5 U	4.5 U	4.8 U
Methyl tert-Butyl Ether	ug/kg	4.2 U	3.8 U	3.8 U	4 U	4.5 U	4.3 U	3.8 U	4.2 U	3.7 U	4.7 U	5 U	4.5 U	4.8 U
m,p-Xylene	ug/kg	4.2 U	3.8 U	3.8 U	4 U	4.5 U	4.3 U	3.8 U	4.2 U	3.7 U	4.7 U	5 U	4.5 U	0.46 J
Carbon tetrachloride	ug/kg	4.2 U	3.8 U	3.8 U	4 U	4.5 U	4.3 U	3.8 U	4.2 U	3.7 U	4.7 U	5 U	4.5 U	4.8 U
1,1-Dichloropropene	ug/kg	4.2 U	3.8 U	3.8 U	4 U	4.5 U	4.3 U	3.8 U	4.2 U	3.7 U	4.7 U	5 U	4.5 U	4.8 U
2-Hexanone	ug/kg	8.4 U	7.6 U	7.7 U	8 U	9 U	8.5 U	7.6 U	8.5 U	7.4 U	9.4 U	10 U	9 U	9.6 U
2,2-Dichloropropane	ug/kg	4.2 U	3.8 U	3.8 U	4 U	4.5 U	4.3 U	3.8 U	4.2 U	3.7 U	4.7 U	5 U	4.5 U	4.8 U
1,1,1,2-Tetrachloroethane	ug/kg	4.2 U	3.8 U	3.8 U	4 U	4.5 U	4.3 U	3.8 U	4.2 U	3.7 U	4.7 U	5 U	4.5 U	4.8 U
Acetone	ug/kg	8.4 U	7.6 U	7.7 U	8 U	9 U	8.5 U	58	8.5 U	7.4 U	9.4 U	10 U	9 U	9.6 U
Chloroform	ug/kg	4.2 U	3.8 U	3.8 U	4 U	4.5 U	4.3 U	3.8 U	4.2 U	3.7 U	4.7 U	5 U	4.5 U	4.8 U
Benzene	ug/kg	4.2 U	3.8 U	3.8 U	4 U	4.5 U	4.3 U	3.8 U	4.2 U	3.7 U	4.7 U	5 U	4.5 U	4.8 U
1,1,1-Trichloroethane	ug/kg	4.2 U	3.8 U	3.8 U	4 U	4.5 U	4.3 U	3.8 U	4.2 U	3.7 U	4.7 U	5 U	4.5 U	4.8 U
Bromomethane	ug/kg	4.2 U	3.8 U	3.8 U	4 U	4.5 U	4.3 U	3.8 U	4.2 U	3.7 U	4.7 U	5 U	4.5 U	4.8 U

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

Appendix A7
Volatile Organics - Validated Data
HSA-5B

	Sample Name	SL-151-SA5B-SB-4.0-5.0	SL-152-SA5B-SB-4.0-5.0	SL-153-SA5B-SB-4.0-5.0	SL-154-SA5B-SB-4.0-5.0	SL-155-SA5B-SB-3.5-4.5	SL-156-SA5B-SB-4.0-5.0	SL-157-SA5B-SB-4.0-5.0	SL-158-SA5B-SB-4.0-5.0	SL-159-SA5B-SB-4.0-5.0	SL-159-SA5B-SB-8.0-9.0	SL-160-SA5B-SB-4.0-5.0	SL-161-SA5B-SB-4.0-5.0	SL-162-SA5B-SB-4.0-5.0
	Sample Date	01/24/2011	01/24/2011	01/24/2011	01/24/2011	01/24/2011	01/25/2011	12/22/2010	12/22/2010	02/04/2011	02/04/2011	02/07/2011	02/07/2011	02/07/2011
	Lab SDG	DE067	DE067	DE067	DE067	DE067	DE068	DE051	DE051	DE076	DE076	DE077	DE077	DE077
	Start Depth	4	4	4	4	3.5	4	4	4	4	8	4	4	4
	End Depth	5	5	5	5	4.5	5	5	5	5	9	5	5	5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Chloromethane	ug/kg	4.2 U	3.8 U	3.8 U	4 U	4.5 U	4.3 U	3.8 U	4.2 U	3.7 U	4.7 U	5 U	4.5 U	4.8 U
Dibromomethane	ug/kg	4.2 U	3.8 U	3.8 U	4 U	4.5 U	4.3 U	3.8 U	4.2 U	3.7 U	4.7 U	5 U	4.5 U	4.8 U
Bromochloromethane	ug/kg	4.2 U	3.8 U	3.8 U	4 U	4.5 U	4.3 U	3.8 U	4.2 U	3.7 U	4.7 U	5 U	4.5 U	4.8 U
Chloroethane	ug/kg	4.2 U	3.8 U	3.8 U	4 U	4.5 U	4.3 U	3.8 U	4.2 U	3.7 U	4.7 U	5 U	4.5 U	4.8 U
Vinyl Chloride	ug/kg	4.2 U	3.8 U	3.8 U	4 U	4.5 U	4.3 U	3.8 U	4.2 U	3.7 U	4.7 U	5 U	4.5 U	4.8 U
Methylene chloride	ug/kg	4.2 U	3.8 U	3.8 U	4 U	4.5 U	4.3 U	3.8	4.2 U	3.7 U	4.7 U	5 U	4.5 U	4.8 U
Bromoform	ug/kg	4.2 U	3.8 U	3.8 U	4 U	4.5 U	4.3 U	3.8 U	4.2 U	3.7 U	4.7 U	5 U	4.5 U	4.8 U
Bromodichloromethane	ug/kg	4.2 U	3.8 U	3.8 U	4 U	4.5 U	4.3 U	3.8 U	4.2 U	3.7 U	4.7 U	5 U	4.5 U	4.8 U
1,1-Dichloroethane	ug/kg	4.2 U	3.8 U	3.8 U	4 U	4.5 U	4.3 U	3.8 U	4.2 U	3.7 U	4.7 U	5 U	4.5 U	4.8 U
1,1-Dichloroethene	ug/kg	4.2 U	3.8 U	3.8 U	4 U	4.5 U	4.3 U	3.8 U	4.2 U	3.7 U	4.7 U	5 U	4.5 U	4.8 U
Trichlorofluoromethane	ug/kg	4.2 U	3.8 U	3.8 U	4 U	4.5 U	4.3 U	3.8 U	4.2 U	3.7 U	4.7 U	5 U	4.5 U	4.8 U
Dichlorodifluoromethane	ug/kg	4.2 U	3.8 U	3.8 U	4 U	4.5 U	4.3 U	3.8 U	4.2 U	3.7 U	4.7 U	5 U	4.5 U	4.8 U
Freon 113a	ug/kg	5.2 UJ	4.7 UJ	4.8 UJ	5 UJ	5.7 UJ	5.3 UJ	4.7 U	5.3 U	4.6 U	5.9 U	6.2 U	5.7 U	6 U
Freon 113	ug/kg	4.2 U	3.8 U	3.8 U	4 U	4.5 U	4.3 U	3.8 U	4.2 U	3.7 U	4.7 U	5 U	4.5 U	4.8 U
1,2-Dichloropropane	ug/kg	4.2 U	3.8 U	3.8 U	4 U	4.5 U	4.3 U	3.8 U	4.2 U	3.7 U	4.7 U	5 U	4.5 U	4.8 U
2-Butanone	ug/kg	8.4 U	7.6 U	7.7 U	8 U	9 U	8.5 U	7.6	8.5 U	7.4 U	9.4 U	10 U	9 U	9.6 U
1,1,2-Trichloroethane	ug/kg	4.2 U	3.8 U	3.8 U	4 U	4.5 U	4.3 U	3.8 U	4.2 U	3.7 U	4.7 U	5 U	4.5 U	4.8 U
Trichloroethene	ug/kg	4.2 U	3.8 U	3.8 U	4 U	4.5 U	4.3 U	3.8 U	4.2 U	3.7 U	4.7 U	5 U	4.5 U	4.8 U
1,1,2,2-Tetrachloroethane	ug/kg	4.2 U	3.8 U	3.8 U	4 U	4.5 U	4.3 U	3.8 U	4.2 U	3.7 U	4.7 U	5 U	4.5 U	4.8 U
Chlorotrifluoroethene	ug/kg	5.2 U	4.7 U	4.8 U	5 U	5.7 U	5.3 U	4.7 U	5.3 U	4.6 U	5.9 U	6.2 U	5.7 U	6 U
1,2,3-Trichlorobenzene	ug/kg	4.2 U	3.8 U	3.8 U	4 U	4.5 U	4.3 U	3.8 U	4.2 U	3.7 U	4.7 U	5 U	4.5 U	4.8 U
o-Xylene	ug/kg	4.2 U	3.8 U	3.8 U	4 U	4.5 U	4.3 U	3.8 U	4.2 U	3.7 U	4.7 U	5 U	4.5 U	4.8 U
2-Chlorotoluene	ug/kg	4.2 U	3.8 U	3.8 U	4 U	4.5 U	4.3 U	3.8 U	4.2 U	3.7 U	4.7 U	5 U	4.5 U	4.8 U
1,2,4-Trimethylbenzene	ug/kg	4.2 U	3.8 U	3.8 U	4 U	4.5 U	4.3 U	3.8 U	4.2 U	3.7 U	4.7 U	5 U	4.5 U	4.8 U
1,2-Dibromo-3-chloropropane	ug/kg	4.2 U	3.8 U	3.8 U	4 U	4.5 U	4.3 U	3.8 U	4.2 U	3.7 U	4.7 U	5 U	4.5 U	4.8 U
1,2,3-Trichloropropane	ug/kg	4.2 U	3.8 U	3.8 U	4 U	4.5 U	4.3 U	3.8 U	4.2 U	3.7 U	4.7 U	5 U	4.5 U	4.8 U
tert-Butylbenzene	ug/kg	4.2 U	3.8 U	3.8 U	4 U	4.5 U	4.3 U	3.8 U	4.2 U	3.7 U	4.7 U	5 U	4.5 U	4.8 U
Isopropylbenzene	ug/kg	4.2 U	3.8 U	3.8 U	4 U	4.5 U	4.3 U	3.8 U	4.2 U	3.7 U	4.7 U	5 U	4.5 U	4.8 U

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

Appendix A7
Volatile Organics - Validated Data
HSA-5B

	Sample Name	SL-163-SA5B-SB-3.5-4.5	SL-164-SA5B-SB-4.0-5.0	SL-165-SA5B-SB-4.0-5.0	SL-168-SA5B-SB-4.0-5.0	SL-172-SA5B-SB-2.0-3.0	SL-173-SA5B-SB-2.0-3.0	SL-175-SA5B-SB-4.0-5.0	SL-176-SA5B-SB-4.0-5.0	SL-177-SA5B-SB-4.0-5.0	SL-178-SA5B-SB-4.0-5.0	SL-179-SA5B-SB-4.0-5.0	SL-180-SA5B-SB-4.0-5.0	SL-180-SA5B-SB-9.0-10.0
	Sample Date	02/07/2011	02/08/2011	02/04/2011	02/08/2011	02/02/2011	02/02/2011	01/31/2011	01/31/2011	01/31/2011	01/28/2011	01/28/2011	01/26/2011	01/26/2011
	Lab SDG	DE077	DE078	DE076	DE078	DE085	DE085	DE074	DE074	DE074	DE071	DE071	DE069	DE069
	Start Depth	3.5	4	4	4	2	2	4	4	4	4	4	4	9
	End Depth	4.5	5	5	5	3	3	5	5	5	5	5	5	10
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
GRO (C5-C12)	mg/kg	--	--	--	1 U	--	--	--	--	--	--	--	1 U	1.1 U
EFH (C15-C20)	mg/kg	--	--	--	0.52 J	--	--	--	--	--	--	--	1.4 U	1.4 U
EFH (C21-C30)	mg/kg	--	--	--	0.78 J	--	--	--	--	--	--	--	1.3 J	1.4 U
EFH (C30-C40)	mg/kg	--	--	--	1.7	--	--	--	--	--	--	--	5.6	1.4 U
EFH (C8-C11)	mg/kg	--	--	--	1.3 UJ	--	--	--	--	--	--	--	1.4 U	1.4 U
1,4-Dichlorobenzene	ug/kg	4.9 U	4.5 U	3.5 UJ	3.9 U	4.3 U	4.8 U	4.3 U	4.8 U	4.4 U	4.3 U	4.2 U	4.1 U	4.5 U
1,2,4-Trichlorobenzene	ug/kg	4.9 U	4.5 U	3.5 UJ	3.9 U	4.3 U	4.8 U	4.3 U	4.8 U	4.4 U	4.3 U	4.2 U	4.1 U	4.5 U
1,3-Dichlorobenzene	ug/kg	4.9 U	4.5 U	3.5 UJ	3.9 U	4.3 U	4.8 U	4.3 U	4.8 U	4.4 U	4.3 U	4.2 U	4.1 U	4.5 U
Hexachlorobutadiene	ug/kg	4.9 U	4.5 U	3.5 UJ	3.9 U	4.3 U	4.8 U	4.3 U	4.8 U	4.4 U	4.3 U	4.2 U	4.1 U	4.5 U
1,2-Dichlorobenzene	ug/kg	4.9 U	4.5 U	3.5 UJ	3.9 U	4.3 U	4.8 U	4.3 U	4.8 U	4.4 U	4.3 U	4.2 U	4.1 U	4.5 U
Isopropyltoluene	ug/kg	4.9 U	4.5 U	3.5 UJ	3.9 U	4.3 U	4.8 U	4.3 U	4.8 U	4.4 U	4.3 U	4.2 U	4.1 U	4.5 U
Ethylbenzene	ug/kg	4.9 U	4.5 U	3.5 UJ	3.9 U	0.29 J	0.12 J	4.3 U	0.23 J	0.29 J	4.3 U	4.2 U	4.1 U	4.5 U
Styrene	ug/kg	4.9 U	4.5 U	3.5 UJ	3.9 U	4.3 U	4.8 U	4.3 U	4.8 U	4.4 U	4.3 U	4.2 U	4.1 U	4.5 U
cis-1,3-Dichloropropene	ug/kg	4.9 U	4.5 U	3.5 UJ	3.9 U	4.3 U	4.8 U	4.3 U	4.8 U	4.4 U	4.3 U	4.2 U	4.1 U	4.5 U
trans-1,3-Dichloropropene	ug/kg	4.9 U	4.5 U	3.5 UJ	3.9 U	4.3 U	4.8 U	4.3 U	4.8 U	4.4 U	4.3 U	4.2 U	4.1 U	4.5 U
N-Propylbenzene	ug/kg	4.9 U	4.5 U	3.5 UJ	3.9 U	4.3 U	4.8 U	4.3 U	4.8 U	4.4 U	4.3 U	4.2 U	4.1 U	4.5 U
N-Butylbenzene	ug/kg	4.9 U	4.5 U	3.5 UJ	3.9 U	4.3 U	4.8 U	4.3 U	4.8 U	4.4 U	4.3 U	4.2 U	4.1 U	4.5 U
4-Chlorotoluene	ug/kg	4.9 U	4.5 U	3.5 UJ	3.9 U	4.3 U	4.8 U	4.3 U	4.8 U	4.4 U	4.3 U	4.2 U	4.1 U	4.5 U
1,2-Dibromoethane	ug/kg	4.9 U	4.5 U	3.5 UJ	3.9 U	4.3 U	4.8 U	4.3 U	4.8 U	4.4 U	4.3 U	4.2 U	4.1 U	4.5 U
1,2-Dichloroethane	ug/kg	4.9 U	4.5 U	3.5 UJ	3.9 U	4.3 U	4.8 U	4.3 U	4.8 U	4.4 U	4.3 U	4.2 U	4.1 U	4.5 U
4-Methyl-2-Pentanone	ug/kg	9.8 U	8.9 U	7.1 UJ	7.8 U	8.6 U	9.6 U	8.5 U	9.5 U	8.8 U	8.6 U	8.4 U	8.1 U	9 U
1,3,5-Trimethylbenzene	ug/kg	4.9 U	4.5 U	3.5 UJ	3.9 U	4.3 U	4.8 U	4.3 U	4.8 U	4.4 U	4.3 U	4.2 U	4.1 U	4.5 U
Bromobenzene	ug/kg	4.9 U	4.5 U	3.5 UJ	3.9 U	4.3 U	4.8 U	4.3 U	4.8 U	4.4 U	4.3 U	4.2 U	4.1 U	4.5 U
Toluene	ug/kg	4.9 U	4.5 U	3.5 UJ	3.9 U	4.3 U	4.8 U	4.3 U	4.8 U	4.4 U	4.3 U	4.2 U	4.1 U	4.5 U
Chlorobenzene	ug/kg	4.9 U	4.5 U	3.5 UJ	3.9 U	4.3 U	4.8 U	4.3 U	4.8 U	4.4 U	4.3 U	4.2 U	4.1 U	4.5 U
2-Chloroethyl Vinyl Ether	ug/kg	4.9 U	4.5 U	3.5 UJ	3.9 U	4.3 U	4.8 U	4.3 U	4.8 U	4.4 U	4.3 U	4.2 U	4.1 U	4.5 U
1,4-Dioxane	ug/kg	20 U	17 U	14 U	16 U	16 U	14 U	16 U	16 U	15 U	15 U	19 U	15 U	16 U
Dibromochloromethane	ug/kg	4.9 U	4.5 U	3.5 UJ	3.9 U	4.3 U	4.8 U	4.3 U	4.8 U	4.4 U	4.3 U	4.2 U	4.1 U	4.5 U
Tetrachloroethene	ug/kg	4.9 U	4.5 U	3.5 UJ	3.9 U	4.3 U	4.8 U	4.3 U	4.8 U	4.4 U	4.3 U	4.2 U	4.1 U	4.5 U
sec-Butylbenzene	ug/kg	4.9 U	4.5 U	3.5 UJ	3.9 U	4.3 U	4.8 U	4.3 U	4.8 U	4.4 U	4.3 U	4.2 U	4.1 U	4.5 U
1,3-Dichloropropane	ug/kg	4.9 U	4.5 U	3.5 UJ	3.9 U	4.3 U	4.8 U	4.3 U	4.8 U	4.4 U	4.3 U	4.2 U	4.1 U	4.5 U
cis-1,2-Dichloroethene	ug/kg	4.9 U	4.5 U	3.5 UJ	3.9 U	4.3 U	4.8 U	4.3 U	4.8 U	4.4 U	4.3 U	4.2 U	4.1 U	4.5 U
trans-1,2-Dichloroethene	ug/kg	4.9 U	4.5 U	3.5 UJ	3.9 U	4.3 U	4.8 U	4.3 U	4.8 U	4.4 U	4.3 U	4.2 U	4.1 U	4.5 U
Methyl tert-Butyl Ether	ug/kg	4.9 U	4.5 U	3.5 UJ	3.9 U	4.3 U	4.8 U	4.3 U	4.8 U	4.4 U	4.3 U	4.2 U	4.1 U	4.5 U
m,p-Xylene	ug/kg	4.9 U	4.5 U	3.5 UJ	3.9 U	1 J	0.45 J	4.3 U	0.77 J	1.1 J	4.3 U	4.2 U	4.1 U	4.5 U
Carbon tetrachloride	ug/kg	4.9 U	4.5 U	3.5 UJ	3.9 U	4.3 U	4.8 U	4.3 U	4.8 U	4.4 U	4.3 U	4.2 U	4.1 U	4.5 U
1,1-Dichloropropene	ug/kg	4.9 U	4.5 U	3.5 UJ	3.9 U	4.3 U	4.8 U	4.3 U	4.8 U	4.4 U	4.3 U	4.2 U	4.1 U	4.5 U
2-Hexanone	ug/kg	9.8 U	8.9 U	7.1 UJ	7.8 U	8.6 U	9.6 U	8.5 U	9.5 U	8.8 U	8.6 U	8.4 U	8.1 U	9 U
2,2-Dichloropropane	ug/kg	4.9 U	4.5 U	3.5 UJ	3.9 U	4.3 U	4.8 U	4.3 U	4.8 U	4.4 U	4.3 U	4.2 U	4.1 U	4.5 U
1,1,1,2-Tetrachloroethane	ug/kg	4.9 U	4.5 U	3.5 UJ	3.9 U	4.3 U	4.8 U	4.3 U	4.8 U	4.4 U	4.3 U	4.2 U	4.1 U	4.5 U
Acetone	ug/kg	9.8 U	8.9 U	7.1 UJ	7.8 U	8.6 U	9.6 U	8.5 U	9.5 U	8.8 U	8.6 U	8.4 U	8.1 U	9 U
Chloroform	ug/kg	4.9 U	4.5 U	3.5 UJ	3.9 U	4.3 U	4.8 U	4.3 U	4.8 U	4.4 U	4.3 U	4.2 U	4.1 U	4.5 U
Benzene	ug/kg	4.9 U	4.5 U	3.5 UJ	3.9 U	4.3 U	4.8 U	4.3 U	4.8 U	4.4 U	4.3 U	4.2 U	4.1 U	4.5 U
1,1,1-Trichloroethane	ug/kg	4.9 U	4.5 U	3.5 UJ	3.9 U	4.3 U	4.8 U	4.3 U	4.8 U	4.4 U	4.3 U	4.2 U	4.1 U	4.5 U
Bromomethane	ug/kg	4.9 U	4.5 U	3.5 UJ	3.9 U	4.3 U	4.8 U	4.3 U	4.8 U	4.4 U	4.3 U	4.2 U	4.1 U	4.5 U

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

Appendix A7
Volatile Organics - Validated Data
HSA-5B

		Sample Name	SL-163-SA5B-SB-3.5-4.5	SL-164-SA5B-SB-4.0-5.0	SL-165-SA5B-SB-4.0-5.0	SL-168-SA5B-SB-4.0-5.0	SL-172-SA5B-SB-2.0-3.0	SL-173-SA5B-SB-2.0-3.0	SL-175-SA5B-SB-4.0-5.0	SL-176-SA5B-SB-4.0-5.0	SL-177-SA5B-SB-4.0-5.0	SL-178-SA5B-SB-4.0-5.0	SL-179-SA5B-SB-4.0-5.0	SL-180-SA5B-SB-4.0-5.0	SL-180-SA5B-SB-9.0-10.0
		Sample Date	02/07/2011	02/08/2011	02/04/2011	02/08/2011	02/02/2011	02/02/2011	01/31/2011	01/31/2011	01/31/2011	01/28/2011	01/28/2011	01/26/2011	01/26/2011
		Lab SDG	DE077	DE078	DE076	DE078	DE085	DE085	DE074	DE074	DE074	DE071	DE071	DE069	DE069
		Start Depth	3.5	4	4	4	2	2	4	4	4	4	4	4	9
		End Depth	4.5	5	5	5	3	3	5	5	5	5	5	5	10
Chemical Name	Unit		Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Chloromethane	ug/kg		4.9 U	4.5 U	3.5 UJ	3.9 U	4.3 U	4.8 U	4.3 U	4.8 U	4.4 U	4.3 U	4.2 U	4.1 U	4.5 U
Dibromomethane	ug/kg		4.9 U	4.5 U	3.5 UJ	3.9 U	4.3 U	4.8 U	4.3 U	4.8 U	4.4 U	4.3 U	4.2 U	4.1 U	4.5 U
Bromochloromethane	ug/kg		4.9 U	4.5 U	3.5 UJ	3.9 U	4.3 U	4.8 U	4.3 U	4.8 U	4.4 U	4.3 U	4.2 U	4.1 U	4.5 U
Chloroethane	ug/kg		4.9 U	4.5 U	3.5 UJ	3.9 U	4.3 U	4.8 U	4.3 U	4.8 U	4.4 U	4.3 U	4.2 U	4.1 U	4.5 U
Vinyl Chloride	ug/kg		4.9 U	4.5 U	3.5 UJ	3.9 U	4.3 U	4.8 U	4.3 U	4.8 U	4.4 U	4.3 U	4.2 U	4.1 U	4.5 U
Methylene chloride	ug/kg		4.9 U	4.5 U	3.5 UJ	3.9 U	4.3 U	4.8 U	4.3 U	4.8 U	4.4 U	4.3 U	4.2 U	4.1 U	4.5 U
Bromoform	ug/kg		4.9 U	4.5 U	3.5 UJ	3.9 U	4.3 U	4.8 U	4.3 U	4.8 U	4.4 U	4.3 U	4.2 U	4.1 U	4.5 U
Bromodichloromethane	ug/kg		4.9 U	4.5 U	3.5 UJ	3.9 U	4.3 U	4.8 U	4.3 U	4.8 U	4.4 U	4.3 U	4.2 U	4.1 U	4.5 U
1,1-Dichloroethane	ug/kg		4.9 U	4.5 U	3.5 UJ	3.9 U	4.3 U	4.8 U	4.3 U	4.8 U	4.4 U	4.3 U	4.2 U	4.1 U	4.5 U
1,1-Dichloroethene	ug/kg		4.9 U	4.5 U	3.5 UJ	3.9 U	4.3 U	4.8 U	4.3 U	4.8 U	4.4 U	4.3 U	4.2 U	4.1 U	4.5 U
Trichlorofluoromethane	ug/kg		4.9 U	4.5 U	3.5 UJ	3.9 U	4.3 U	4.8 U	4.3 U	4.8 U	4.4 U	4.3 U	4.2 U	4.1 U	4.5 U
Dichlorodifluoromethane	ug/kg		4.9 U	4.5 U	3.5 UJ	3.9 U	4.3 U	4.8 U	4.3 U	4.8 U	4.4 U	4.3 U	4.2 U	4.1 U	4.5 U
Freon 113a	ug/kg		6.1 U	5.6 UJ	4.4 UJ	4.9 UJ	5.4 U	6 U	5.3 U	6 U	5.5 U	5.4 U	5.2 U	5.1 U	5.6 U
Freon 113	ug/kg		4.9 U	4.5 U	3.5 UJ	3.9 U	4.3 U	4.8 U	4.3 U	4.8 U	4.4 U	4.3 U	4.2 U	4.1 U	4.5 U
1,2-Dichloropropane	ug/kg		4.9 U	4.5 U	3.5 UJ	3.9 U	4.3 U	4.8 U	4.3 U	4.8 U	4.4 U	4.3 U	4.2 U	4.1 U	4.5 U
2-Butanone	ug/kg		9.8 U	8.9 U	7.1 UJ	7.8 U	8.6 U	9.6 U	8.5 U	9.5 U	8.8 U	8.6 U	8.4 U	8.1 U	9 U
1,1,2-Trichloroethane	ug/kg		4.9 U	4.5 U	3.5 UJ	3.9 U	4.3 U	4.8 U	4.3 U	4.8 U	4.4 U	4.3 U	4.2 U	4.1 U	4.5 U
Trichloroethene	ug/kg		4.9 U	4.5 U	3.5 UJ	3.9 U	4.3 U	4.8 U	4.3 U	4.8 U	4.4 U	4.3 U	4.2 U	4.1 U	4.5 U
1,1,2,2-Tetrachloroethane	ug/kg		4.9 U	4.5 U	3.5 UJ	3.9 U	4.3 U	4.8 U	4.3 U	4.8 U	4.4 U	4.3 U	4.2 U	4.1 U	4.5 U
Chlorotrifluoroethene	ug/kg		6.1 U	5.6 U	4.4 UJ	4.9 U	5.4 U	6 U	5.3 U	6 U	5.5 U	5.4 U	5.2 U	5.1 U	5.6 U
1,2,3-Trichlorobenzene	ug/kg		4.9 U	4.5 U	3.5 UJ	3.9 U	4.3 U	4.8 U	4.3 U	4.8 U	4.4 U	4.3 U	4.2 U	4.1 U	4.5 U
o-Xylene	ug/kg		4.9 U	4.5 U	3.5 UJ	3.9 U	4.3 U	4.8 U	4.3 U	4.8 U	4.4 U	4.3 U	4.2 U	4.1 U	4.5 U
2-Chlorotoluene	ug/kg		4.9 U	4.5 U	3.5 UJ	3.9 U	4.3 U	4.8 U	4.3 U	4.8 U	4.4 U	4.3 U	4.2 U	4.1 U	4.5 U
1,2,4-Trimethylbenzene	ug/kg		4.9 U	4.5 U	3.5 UJ	3.9 U	4.3 U	4.8 U	4.3 U	4.8 U	4.4 U	4.3 U	4.2 U	4.1 U	4.5 U
1,2-Dibromo-3-chloropropane	ug/kg		4.9 U	4.5 U	3.5 UJ	3.9 U	4.3 U	4.8 U	4.3 U	4.8 U	4.4 U	4.3 U	4.2 U	4.1 U	4.5 U
1,2,3-Trichloropropane	ug/kg		4.9 U	4.5 U	3.5 UJ	3.9 U	4.3 U	4.8 U	4.3 U	4.8 U	4.4 U	4.3 U	4.2 U	4.1 U	4.5 U
tert-Butylbenzene	ug/kg		4.9 U	4.5 U	3.5 UJ	3.9 U	4.3 U	4.8 U	4.3 U	4.8 U	4.4 U	4.3 U	4.2 U	4.1 U	4.5 U
Isopropylbenzene	ug/kg		4.9 U	4.5 U	3.5 UJ	3.9 U	4.3 U	4.8 U	4.3 U	4.8 U	4.4 U	4.3 U	4.2 U	4.1 U	4.5 U

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

Appendix A7
Volatile Organics - Validated Data
HSA-5B

	Sample Name	SL-181-SA5B-SB-4.0-5.0	SL-182-SA5B-SB-4.0-5.0	SL-183-SA5B-SS-0.0-0.5	SL-183-SA5B-SB-4.0-5.0	SL-184-SA5B-SB-3.0-4.0	SL-185-SA5B-SB-4.0-5.0	SL-186-SA5B-SB-4.0-5.0	SL-187-SA5B-SB-4.0-5.0	SL-188-SA5B-SB-4.0-5.0	SL-189-SA5B-SB-3.0-4.0	SL-190-SA5B-SB-4.0-5.0	SL-191-SA5B-SB-4.0-5.0	SL-192-SA5B-SB-4.0-5.0
	Sample Date	01/27/2011	01/31/2011	12/21/2010	01/28/2011	01/28/2011	01/27/2011	01/27/2011	02/01/2011	02/01/2011	02/01/2011	02/01/2011	02/01/2011	01/27/2011
	Lab SDG	DE070	DE073	DE049	DE071	DE071	DE070	DE070	DE072	DE072	DE072	DE072	DE072	DE070
	Start Depth	4	4	0	4	3	4	4	4	4	3	4	4	4
	End Depth	5	5	0.5	5	4	5	5	5	5	4	5	5	5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
GRO (C5-C12)	mg/kg	1 U	1.1 U	1 U	1 U	1 U	1 U	--	--	--	--	--	--	--
EFH (C15-C20)	mg/kg	1.4 U	1.4 U	2.1 J	1.4 U	1.4 U	1.4 U	--	--	--	--	--	--	--
EFH (C21-C30)	mg/kg	1.4 U	1.4 UJ	28	0.66 J	6.1	0.78 J	--	--	--	--	--	--	--
EFH (C30-C40)	mg/kg	1.4 U	1.4 UJ	87	1.7	13	3.2	--	--	--	--	--	--	--
EFH (C8-C11)	mg/kg	1.4 U	1.4 U	2.9 U	1.4 U	1.4 U	1.4 U	--	--	--	--	--	--	--
1,4-Dichlorobenzene	ug/kg	4.2 U	4 U	4.1 U	3.6 U	4.1 U	4 U	3.6 U	4.3 U	4.3 U	3.9 U	3.5 U	4.1 U	3.8 U
1,2,4-Trichlorobenzene	ug/kg	4.2 U	4 UJ	4.1 U	3.6 U	4.1 UJ	4 U	3.6 U	4.3 UJ	4.3 UJ	3.9 UJ	3.5 U	4.1 UJ	3.8 U
1,3-Dichlorobenzene	ug/kg	4.2 U	4 U	4.1 U	3.6 U	4.1 U	4 U	3.6 U	4.3 U	4.3 U	3.9 U	3.5 U	4.1 U	3.8 U
Hexachlorobutadiene	ug/kg	4.2 U	4 U	4.1 U	3.6 U	4.1 U	4 U	3.6 U	4.3 U	4.3 U	3.9 U	3.5 U	4.1 U	3.8 U
1,2-Dichlorobenzene	ug/kg	4.2 U	4 U	4.1 U	3.6 U	4.1 U	4 U	3.6 U	4.3 U	4.3 U	3.9 U	3.5 U	4.1 U	3.8 U
Isopropyltoluene	ug/kg	4.2 U	4 U	4.1 U	3.6 U	4.1 U	4 U	3.6 U	4.3 U	4.3 U	3.9 U	3.5 U	4.1 U	3.8 U
Ethylbenzene	ug/kg	4.2 U	4 UJ	4.1 U	3.6 U	4.1 U	4 U	3.6 U	4.3 U	4.3 U	3.9 U	3.5 U	4.1 U	3.8 U
Styrene	ug/kg	4.2 U	4 U	4.1 U	3.6 U	4.1 U	4 U	3.6 U	4.3 U	4.3 U	3.9 U	3.5 U	4.1 U	3.8 U
cis-1,3-Dichloropropene	ug/kg	4.2 U	4 UJ	4.1 U	3.6 U	4.1 UJ	4 U	3.6 U	4.3 UJ	4.3 UJ	3.9 UJ	3.5 U	4.1 UJ	3.8 U
trans-1,3-Dichloropropene	ug/kg	4.2 U	4 U	4.1 U	3.6 U	4.1 U	4 U	3.6 U	4.3 U	4.3 U	3.9 U	3.5 U	4.1 U	3.8 U
N-Propylbenzene	ug/kg	4.2 U	4 U	4.1 U	3.6 U	4.1 U	4 U	3.6 U	4.3 U	4.3 U	3.9 U	3.5 U	4.1 U	3.8 U
N-Butylbenzene	ug/kg	4.2 U	4 U	4.1 U	3.6 U	4.1 U	4 U	3.6 U	4.3 U	4.3 U	3.9 U	3.5 U	4.1 U	3.8 U
4-Chlorotoluene	ug/kg	4.2 U	4 U	4.1 U	3.6 U	4.1 U	4 U	3.6 U	4.3 U	4.3 U	3.9 U	3.5 U	4.1 U	3.8 U
1,2-Dibromoethane	ug/kg	4.2 U	4 U	4.1 U	3.6 U	4.1 U	4 U	3.6 U	4.3 U	4.3 U	3.9 U	3.5 U	4.1 U	3.8 U
1,2-Dichloroethane	ug/kg	4.2 U	4 U	4.1 U	3.6 U	4.1 U	4 U	3.6 U	4.3 U	4.3 U	3.9 U	3.5 U	4.1 U	3.8 U
4-Methyl-2-Pentanone	ug/kg	8.3 U	8.1 U	8.2 U	7.2 U	8.2 U	8.1 U	7.2 U	8.5 U	8.5 U	7.7 U	6.9 U	8.1 U	7.6 U
1,3,5-Trimethylbenzene	ug/kg	4.2 U	4 U	4.1 U	3.6 U	4.1 U	4 U	3.6 U	4.3 U	4.3 U	3.9 U	3.5 U	4.1 U	3.8 U
Bromobenzene	ug/kg	4.2 U	4 U	4.1 U	3.6 U	4.1 U	4 U	3.6 U	4.3 U	4.3 U	3.9 U	3.5 U	4.1 U	3.8 U
Toluene	ug/kg	4.2 U	4 U	4.1 U	3.6 U	4.1 U	4 U	3.6 U	4.3 U	4.3 U	3.9 U	3.5 U	4.1 U	3.8 U
Chlorobenzene	ug/kg	4.2 U	4 U	4.1 U	3.6 U	4.1 U	4 U	3.6 U	4.3 U	4.3 U	3.9 U	3.5 U	4.1 U	3.8 U
2-Chloroethyl Vinyl Ether	ug/kg	4.2 U	4 U	4.1 U	3.6 U	4.1 U	4 U	3.6 U	4.3 U	4.3 U	3.9 U	3.5 U	4.1 U	3.8 U
1,4-Dioxane	ug/kg	15 U	15 U	15 U	14 U	15 U	15 U	13 U	15 U	17 U	15 U	14 U	14 U	14 U
Dibromochloromethane	ug/kg	4.2 U	4 U	4.1 U	3.6 U	4.1 U	4 U	3.6 U	4.3 U	4.3 U	3.9 U	3.5 U	4.1 U	3.8 U
Tetrachloroethene	ug/kg	4.2 U	4 U	4.1 U	3.6 U	4.1 U	4 U	3.6 U	4.3 U	4.3 U	3.9 U	3.5 U	4.1 U	3.8 U
sec-Butylbenzene	ug/kg	4.2 U	4 U	4.1 U	3.6 U	4.1 U	4 U	3.6 U	4.3 U	4.3 U	3.9 U	3.5 U	4.1 U	3.8 U
1,3-Dichloropropane	ug/kg	4.2 U	4 U	4.1 U	3.6 U	4.1 U	4 U	3.6 U	4.3 U	4.3 U	3.9 U	3.5 U	4.1 U	3.8 U
cis-1,2-Dichloroethene	ug/kg	4.2 U	4 U	4.1 U	3.6 U	4.1 U	4 U	3.6 U	4.3 U	4.3 U	3.9 U	3.5 U	4.1 U	3.8 U
trans-1,2-Dichloroethene	ug/kg	4.2 U	4 U	4.1 U	3.6 U	4.1 U	4 U	3.6 U	4.3 U	4.3 U	3.9 U	3.5 U	4.1 U	3.8 U
Methyl tert-Butyl Ether	ug/kg	4.2 U	4 U	4.1 U	3.6 U	4.1 U	4 U	3.6 U	4.3 U	4.3 U	3.9 U	3.5 U	4.1 U	3.8 U
m,p-Xylene	ug/kg	4.2 U	4 UJ	4.1 U	3.6 U	4.1 U	4 U	3.6 U	4.3 U	4.3 U	3.9 U	3.5 U	4.1 U	3.8 U
Carbon tetrachloride	ug/kg	4.2 U	4 U	4.1 U	3.6 U	4.1 U	4 U	3.6 U	4.3 U	4.3 U	3.9 U	3.5 U	4.1 U	3.8 U
1,1-Dichloropropene	ug/kg	4.2 U	4 U	4.1 U	3.6 U	4.1 U	4 U	3.6 U	4.3 U	4.3 U	3.9 U	3.5 U	4.1 U	3.8 U
2-Hexanone	ug/kg	8.3 U	8.1 U	8.2 UJ	7.2 U	8.2 U	8.1 U	7.2 U	8.5 U	8.5 U	7.7 U	6.9 U	8.1 U	7.6 U
2,2-Dichloropropane	ug/kg	4.2 U	4 U	4.1 U	3.6 U	4.1 U	4 U	3.6 U	4.3 U	4.3 U	3.9 U	3.5 U	4.1 U	3.8 U
1,1,1,2-Tetrachloroethane	ug/kg	4.2 U	4 U	4.1 U	3.6 U	4.1 U	4 U	3.6 U	4.3 U	4.3 U	3.9 U	3.5 U	4.1 U	3.8 U
Acetone	ug/kg	8.3 U	8.1 U	8.2 U	7.2 U	8.2 U	7.9 J	7.2 U	8.5 U	8.5 U	7.7 U	6.9 U	8.1 U	7.6 U
Chloroform	ug/kg	4.2 U	4 U	4.1 U	3.6 U	4.1 U	4 U	3.6 U	4.3 U	4.3 U	3.9 U	3.5 U	4.1 U	3.8 U
Benzene	ug/kg	4.2 U	4 U	4.1 U	3.6 U	4.1 U	4 U	3.6 U	4.3 U	4.3 U	3.9 U	3.5 U	4.1 U	3.8 U
1,1,1-Trichloroethane	ug/kg	4.2 U	4 U	4.1 U	3.6 U	4.1 U	4 U	3.6 U	4.3 U	4.3 U	3.9 U	3.5 U	4.1 U	3.8 U
Bromomethane	ug/kg	4.2 U	4 U	4.1 U	3.6 U	4.1 U	4 U	3.6 U	4.3 U	4.3 U	3.9 U	3.5 U	4.1 U	3.8 U

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

Appendix A7
Volatile Organics - Validated Data
HSA-5B

	Sample Name	SL-181-SA5B-SB-4.0-5.0	SL-182-SA5B-SB-4.0-5.0	SL-183-SA5B-SS-0.0-0.5	SL-183-SA5B-SB-4.0-5.0	SL-184-SA5B-SB-3.0-4.0	SL-185-SA5B-SB-4.0-5.0	SL-186-SA5B-SB-4.0-5.0	SL-187-SA5B-SB-4.0-5.0	SL-188-SA5B-SB-4.0-5.0	SL-189-SA5B-SB-3.0-4.0	SL-190-SA5B-SB-4.0-5.0	SL-191-SA5B-SB-4.0-5.0	SL-192-SA5B-SB-4.0-5.0
	Sample Date	01/27/2011	01/31/2011	12/21/2010	01/28/2011	01/28/2011	01/27/2011	01/27/2011	02/01/2011	02/01/2011	02/01/2011	02/01/2011	02/01/2011	01/27/2011
	Lab SDG	DE070	DE073	DE049	DE071	DE071	DE070	DE070	DE072	DE072	DE072	DE072	DE072	DE070
	Start Depth	4	4	0	4	3	4	4	4	4	3	4	4	4
	End Depth	5	5	0.5	5	4	5	5	5	5	4	5	5	5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Chloromethane	ug/kg	4.2 U	4 U	4.1 U	3.6 U	4.1 U	4 U	3.6 U	4.3 U	4.3 U	3.9 U	3.5 U	4.1 U	3.8 U
Dibromomethane	ug/kg	4.2 U	4 U	4.1 U	3.6 U	4.1 U	4 U	3.6 U	4.3 U	4.3 U	3.9 U	3.5 U	4.1 U	3.8 U
Bromochloromethane	ug/kg	4.2 U	4 U	4.1 U	3.6 U	4.1 U	4 U	3.6 U	4.3 U	4.3 U	3.9 U	3.5 U	4.1 U	3.8 U
Chloroethane	ug/kg	4.2 U	4 U	4.1 U	3.6 U	4.1 U	4 U	3.6 U	4.3 U	4.3 U	3.9 U	3.5 U	4.1 U	3.8 U
Vinyl Chloride	ug/kg	4.2 U	4 U	4.1 U	3.6 U	4.1 U	4 U	3.6 U	4.3 U	4.3 U	3.9 U	3.5 U	4.1 U	3.8 U
Methylene chloride	ug/kg	4.2 U	4 U	4.1 U	3.6 U	4.1 U	4 U	3.6 U	4.3 U	4.3 U	3.9 U	3.5 U	4.1 U	3.8 U
Bromoform	ug/kg	4.2 U	4 U	4.1 U	3.6 U	4.1 U	4 U	3.6 U	4.3 U	4.3 U	3.9 U	3.5 U	4.1 U	3.8 U
Bromodichloromethane	ug/kg	4.2 U	4 U	4.1 U	3.6 U	4.1 U	4 U	3.6 U	4.3 U	4.3 U	3.9 U	3.5 U	4.1 U	3.8 U
1,1-Dichloroethane	ug/kg	4.2 U	4 U	4.1 U	3.6 U	4.1 U	4 U	3.6 U	4.3 U	4.3 U	3.9 U	3.5 U	4.1 U	3.8 U
1,1-Dichloroethene	ug/kg	4.2 U	4 U	4.1 U	3.6 U	4.1 U	4 U	3.6 U	4.3 U	4.3 U	3.9 U	3.5 U	4.1 U	3.8 U
Trichlorofluoromethane	ug/kg	4.2 U	4 U	4.1 U	3.6 U	4.1 U	4 U	3.6 U	4.3 U	4.3 U	3.9 U	3.5 U	4.1 U	3.8 U
Dichlorodifluoromethane	ug/kg	4.2 U	4 U	4.1 U	3.6 U	4.1 U	4 U	3.6 U	4.3 U	4.3 U	3.9 U	3.5 U	4.1 U	3.8 U
Freon 113a	ug/kg	5.2 U	5.1 U	5.1 U	4.5 U	5.1 U	5 U	4.5 U	5.3 U	5.3 U	4.8 U	4.3 U	5.1 U	4.8 U
Freon 113	ug/kg	4.2 U	4 U	4.1 U	3.6 U	4.1 U	4 U	3.6 U	4.3 U	4.3 U	3.9 U	3.5 U	4.1 U	3.8 U
1,2-Dichloropropane	ug/kg	4.2 U	4 U	4.1 U	3.6 U	4.1 U	4 U	3.6 U	4.3 U	4.3 U	3.9 U	3.5 U	4.1 U	3.8 U
2-Butanone	ug/kg	8.3 U	8.1 U	8.2 U	7.2 U	8.2 U	8.1 U	7.2 U	8.5 U	8.5 U	7.7 U	6.9 U	8.1 U	7.6 U
1,1,2-Trichloroethane	ug/kg	4.2 U	4 U	4.1 U	3.6 U	4.1 U	4 U	3.6 U	4.3 U	4.3 U	3.9 U	3.5 U	4.1 U	3.8 U
Trichloroethene	ug/kg	4.2 U	4 U	4.1 U	3.6 U	4.1 U	4 U	3.6 U	4.3 U	4.3 U	3.9 U	3.5 U	4.1 U	3.8 U
1,1,2,2-Tetrachloroethane	ug/kg	4.2 U	4 U	4.1 U	3.6 U	4.1 U	4 U	3.6 U	4.3 U	4.3 U	3.9 U	3.5 U	4.1 U	3.8 U
Chlorotrifluoroethene	ug/kg	5.2 U	5.1 U	5.1 UJ	4.5 U	5.1 U	5 U	4.5 U	5.3 U	5.3 U	4.8 U	4.3 U	5.1 U	4.8 U
1,2,3-Trichlorobenzene	ug/kg	4.2 U	4 U	4.1 U	3.6 U	4.1 U	4 U	3.6 U	4.3 U	4.3 U	3.9 U	3.5 U	4.1 U	3.8 U
o-Xylene	ug/kg	4.2 U	4 U	4.1 U	3.6 U	4.1 U	4 U	3.6 U	4.3 U	4.3 U	3.9 U	3.5 U	4.1 U	3.8 U
2-Chlorotoluene	ug/kg	4.2 U	4 U	4.1 U	3.6 U	4.1 U	4 U	3.6 U	4.3 U	4.3 U	3.9 U	3.5 U	4.1 U	3.8 U
1,2,4-Trimethylbenzene	ug/kg	4.2 U	4 U	4.1 U	3.6 U	4.1 U	4 U	3.6 U	4.3 U	4.3 U	3.9 U	3.5 U	4.1 U	3.8 U
1,2-Dibromo-3-chloropropane	ug/kg	4.2 U	4 U	4.1 U	3.6 U	4.1 U	4 U	3.6 U	4.3 U	4.3 U	3.9 U	3.5 U	4.1 U	3.8 U
1,2,3-Trichloropropane	ug/kg	4.2 U	4 U	4.1 U	3.6 U	4.1 U	4 U	3.6 U	4.3 U	4.3 U	3.9 U	3.5 U	4.1 U	3.8 U
tert-Butylbenzene	ug/kg	4.2 U	4 U	4.1 U	3.6 U	4.1 U	4 U	3.6 U	4.3 U	4.3 U	3.9 U	3.5 U	4.1 U	3.8 U
Isopropylbenzene	ug/kg	4.2 U	4 U	4.1 U	3.6 U	4.1 U	4 U	3.6 U	4.3 U	4.3 U	3.9 U	3.5 U	4.1 U	3.8 U

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

Appendix A7
Volatile Organics - Validated Data
HSA-5B

	Sample Name	SL-193-SA5B-SB-4.0-5.0	SL-194-SA5B-SB-4.0-5.0	SL-195-SA5B-SB-4.0-5.0	SL-196-SA5B-SB-4.0-5.0	SL-197-SA5B-SB-4.0-5.0	SL-198-SA5B-SB-4.0-5.0	SL-199-SA5B-SB-4.0-5.0	SL-200-SA5B-SB-4.0-5.0	SL-201-SA5B-SB-4.0-5.0	SL-202-SA5B-SB-4.0-5.0	SL-203-SA5B-SB-4.0-5.0	SL-203-SA5B-SB-7.5-8.5	SL-204-SA5B-SB-4.0-5.0
	Sample Date	01/28/2011	01/28/2011	01/31/2011	01/28/2011	01/31/2011	01/31/2011	01/31/2011	01/31/2011	01/28/2011	01/28/2011	01/27/2011	01/27/2011	01/31/2011
	Lab SDG	DE071	DE071	DE074	DE071	DE074	DE074	DE074	DE074	DE071	DE071	DE070	DE070	DE073
	Start Depth	4	4	4	4	4	4	4	4	4	4	4	7.5	4
	End Depth	5	5	5	5	5	5	5	5	5	5	5	8.5	5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
GRO (C5-C12)	mg/kg	--	--	--	--	--	--	--	--	--	--	1.1 U	1.2 U	0.9 U
EFH (C15-C20)	mg/kg	--	--	--	--	--	--	--	--	--	--	1.4 U	1.4 U	3.7 J
EFH (C21-C30)	mg/kg	--	--	--	--	--	--	--	--	--	--	1.3 J	1.4 U	31
EFH (C30-C40)	mg/kg	--	--	--	--	--	--	--	--	--	--	3.5	1.4 U	70
EFH (C8-C11)	mg/kg	--	--	--	--	--	--	--	--	--	--	1.4 U	1.4 U	6.9 U
1,4-Dichlorobenzene	ug/kg	4.6 U	3.9 U	3.7 U	3.8 U	3.6 U	3.7 U	3.7 U	3.8 U	3.9 U	3.7 U	4.2 U	4.4 U	4.2 U
1,2,4-Trichlorobenzene	ug/kg	4.6 U	3.9 U	3.7 U	3.8 U	3.6 U	3.7 U	3.7 U	3.8 U	3.9 U	3.7 U	4.2 U	4.4 U	4.2 UJ
1,3-Dichlorobenzene	ug/kg	4.6 U	3.9 U	3.7 U	3.8 U	3.6 U	3.7 U	3.7 U	3.8 U	3.9 U	3.7 U	4.2 U	4.4 U	4.2 U
Hexachlorobutadiene	ug/kg	4.6 U	3.9 U	3.7 U	3.8 U	3.6 U	3.7 U	3.7 U	3.8 U	3.9 U	3.7 U	4.2 U	4.4 U	4.2 U
1,2-Dichlorobenzene	ug/kg	4.6 U	3.9 U	3.7 U	3.8 U	3.6 U	3.7 U	3.7 U	3.8 U	3.9 U	3.7 U	4.2 U	4.4 U	4.2 U
Isopropyltoluene	ug/kg	4.6 U	3.9 U	3.7 U	3.8 U	3.6 U	3.7 U	3.7 U	3.8 U	3.9 U	3.7 U	4.2 U	4.4 U	4.2 U
Ethylbenzene	ug/kg	4.6 U	3.9 U	3.7 UJ	3.8 U	0.17 J	0.1 J	0.25 J	0.16 J	3.9 U	3.7 U	4.2 U	4.4 U	0.38 J
Styrene	ug/kg	4.6 U	3.9 U	3.7 U	3.8 U	3.6 U	3.7 U	3.7 U	3.8 U	3.9 U	3.7 U	4.2 U	4.4 U	4.2 U
cis-1,3-Dichloropropene	ug/kg	4.6 U	3.9 U	3.7 U	3.8 U	3.6 U	3.7 U	3.7 U	3.8 U	3.9 U	3.7 U	4.2 U	4.4 U	4.2 UJ
trans-1,3-Dichloropropene	ug/kg	4.6 U	3.9 U	3.7 U	3.8 U	3.6 U	3.7 U	3.7 U	3.8 U	3.9 U	3.7 U	4.2 U	4.4 U	4.2 U
N-Propylbenzene	ug/kg	4.6 U	3.9 U	3.7 U	3.8 U	3.6 U	3.7 U	3.7 U	3.8 U	3.9 U	3.7 U	4.2 U	4.4 U	4.2 U
N-Butylbenzene	ug/kg	4.6 U	3.9 U	3.7 U	3.8 U	3.6 U	3.7 U	3.7 U	3.8 U	3.9 U	3.7 U	4.2 U	4.4 U	4.2 U
4-Chlorotoluene	ug/kg	4.6 U	3.9 U	3.7 U	3.8 U	3.6 U	3.7 U	3.7 U	3.8 U	3.9 U	3.7 U	4.2 U	4.4 U	4.2 U
1,2-Dibromoethane	ug/kg	4.6 U	3.9 U	3.7 U	3.8 U	3.6 U	3.7 U	3.7 U	3.8 U	3.9 U	3.7 U	4.2 U	4.4 U	4.2 U
1,2-Dichloroethane	ug/kg	4.6 U	3.9 U	3.7 U	3.8 U	3.6 U	3.7 U	3.7 U	3.8 U	3.9 U	3.7 U	4.2 U	4.4 U	4.2 U
4-Methyl-2-Pentanone	ug/kg	9.1 U	7.7 U	7.5 U	7.6 U	7.3 U	7.4 U	9.2	7.6 U	7.7 U	7.3 U	8.3 U	8.8 U	8.3 U
1,3,5-Trimethylbenzene	ug/kg	4.6 U	3.9 U	3.7 U	3.8 U	3.6 U	3.7 U	3.7 U	3.8 U	3.9 U	3.7 U	4.2 U	4.4 U	4.2 U
Bromobenzene	ug/kg	4.6 U	3.9 U	3.7 U	3.8 U	3.6 U	3.7 U	3.7 U	3.8 U	3.9 U	3.7 U	4.2 U	4.4 U	4.2 U
Toluene	ug/kg	4.6 U	3.9 U	3.7 U	3.8 U	3.6 U	3.7 U	3.7 U	3.8 U	3.9 U	3.7 U	4.2 U	4.4 U	4.2 U
Chlorobenzene	ug/kg	4.6 U	3.9 U	3.7 U	3.8 U	3.6 U	3.7 U	3.7 U	3.8 U	3.9 U	3.7 U	4.2 U	4.4 U	4.2 U
2-Chloroethyl Vinyl Ether	ug/kg	4.6 U	3.9 U	3.7 U	3.8 U	3.6 U	3.7 U	3.7 U	3.8 U	3.9 U	3.7 U	4.2 U	4.4 U	4.2 U
1,4-Dioxane	ug/kg	16 U	15 U	13 U	14 U	13 U	14 U	15 U	14 U	14 U	14 U	14 U	18 U	15 U
Dibromochloromethane	ug/kg	4.6 U	3.9 U	3.7 U	3.8 U	3.6 U	3.7 U	3.7 U	3.8 U	3.9 U	3.7 U	4.2 U	4.4 U	4.2 U
Tetrachloroethene	ug/kg	4.6 U	3.9 U	3.7 U	3.8 U	3.6 U	3.7 U	3.7 U	3.8 U	3.9 U	3.7 U	4.2 U	4.4 U	4.2 U
sec-Butylbenzene	ug/kg	4.6 U	3.9 U	3.7 U	3.8 U	3.6 U	3.7 U	3.7 U	3.8 U	3.9 U	3.7 U	4.2 U	4.4 U	4.2 U
1,3-Dichloropropane	ug/kg	4.6 U	3.9 U	3.7 U	3.8 U	3.6 U	3.7 U	3.7 U	3.8 U	3.9 U	3.7 U	4.2 U	4.4 U	4.2 U
cis-1,2-Dichloroethene	ug/kg	4.6 U	3.9 U	3.7 U	3.8 U	3.6 U	3.7 U	3.7 U	3.8 U	3.9 U	3.7 U	4.2 U	4.4 U	4.2 U
trans-1,2-Dichloroethene	ug/kg	4.6 U	3.9 U	3.7 U	3.8 U	3.6 U	3.7 U	3.7 U	3.8 U	3.9 U	3.7 U	4.2 U	4.4 U	4.2 U
Methyl tert-Butyl Ether	ug/kg	4.6 U	3.9 U	3.7 U	3.8 U	3.6 U	3.7 U	3.7 U	3.8 U	3.9 U	3.7 U	4.2 U	4.4 U	4.2 U
m,p-Xylene	ug/kg	4.6 U	3.9 U	3.7 UJ	3.8 U	0.6 J	0.33 J	0.94 J	0.62 J	3.9 U	3.7 U	4.2 U	4.4 U	1.3 J
Carbon tetrachloride	ug/kg	4.6 U	3.9 U	3.7 U	3.8 U	3.6 U	3.7 U	3.7 U	3.8 U	3.9 U	3.7 U	4.2 U	4.4 U	4.2 U
1,1-Dichloropropene	ug/kg	4.6 U	3.9 U	3.7 U	3.8 U	3.6 U	3.7 U	3.7 U	3.8 U	3.9 U	3.7 U	4.2 U	4.4 U	4.2 U
2-Hexanone	ug/kg	9.1 U	7.7 U	7.5 U	7.6 U	7.3 U	7.4 U	7.4 U	7.6 U	7.7 U	7.3 U	8.3 U	8.8 U	8.3 U
2,2-Dichloropropane	ug/kg	4.6 U	3.9 U	3.7 U	3.8 U	3.6 U	3.7 U	3.7 U	3.8 U	3.9 U	3.7 U	4.2 U	4.4 U	4.2 U
1,1,1,2-Tetrachloroethane	ug/kg	4.6 U	3.9 U	3.7 U	3.8 U	3.6 U	3.7 U	3.7 U	3.8 U	3.9 U	3.7 U	4.2 U	4.4 U	4.2 U
Acetone	ug/kg	9.1 U	7.7 U	7.5 U	7.6 U	7.3 U	7.4 U	7.4 U	7.6 U	7.7 U	7.3 U	8.3 U	8.8 U	8.3 U
Chloroform	ug/kg	4.6 U	3.9 U	3.7 U	3.8 U	3.6 U	3.7 U	3.7 U	3.8 U	3.9 U	3.7 U	4.2 U	4.4 U	4.2 U
Benzene	ug/kg	4.6 U	3.9 U	3.7 U	3.8 U	3.6 U	3.7 U	3.7 U	3.8 U	3.9 U	3.7 U	4.2 U	4.4 U	4.2 U
1,1,1-Trichloroethane	ug/kg	4.6 U	3.9 U	3.7 U	3.8 U	3.6 U	3.7 U	3.7 U	3.8 U	3.9 U	3.7 U	4.2 U	4.4 U	4.2 U
Bromomethane	ug/kg	4.6 U	3.9 U	3.7 U	3.8 U	3.6 U	3.7 U	3.7 U	3.8 U	3.9 U	3.7 U	4.2 U	4.4 U	4.2 U

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

Appendix A7
Volatile Organics - Validated Data
HSA-5B

	Sample Name	SL-193-SA5B-SB-4.0-5.0	SL-194-SA5B-SB-4.0-5.0	SL-195-SA5B-SB-4.0-5.0	SL-196-SA5B-SB-4.0-5.0	SL-197-SA5B-SB-4.0-5.0	SL-198-SA5B-SB-4.0-5.0	SL-199-SA5B-SB-4.0-5.0	SL-200-SA5B-SB-4.0-5.0	SL-201-SA5B-SB-4.0-5.0	SL-202-SA5B-SB-4.0-5.0	SL-203-SA5B-SB-4.0-5.0	SL-203-SA5B-SB-7.5-8.5	SL-204-SA5B-SB-4.0-5.0
	Sample Date	01/28/2011	01/28/2011	01/31/2011	01/28/2011	01/31/2011	01/31/2011	01/31/2011	01/31/2011	01/28/2011	01/28/2011	01/27/2011	01/27/2011	01/31/2011
	Lab SDG	DE071	DE071	DE074	DE071	DE074	DE074	DE074	DE074	DE071	DE071	DE070	DE070	DE073
	Start Depth	4	4	4	4	4	4	4	4	4	4	4	7.5	4
	End Depth	5	5	5	5	5	5	5	5	5	5	5	8.5	5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Chloromethane	ug/kg	4.6 U	3.9 U	3.7 U	3.8 U	3.6 U	3.7 U	3.7 U	3.8 U	3.9 U	3.7 U	4.2 U	4.4 U	4.2 U
Dibromomethane	ug/kg	4.6 U	3.9 U	3.7 U	3.8 U	3.6 U	3.7 U	3.7 U	3.8 U	3.9 U	3.7 U	4.2 U	4.4 U	4.2 U
Bromochloromethane	ug/kg	4.6 U	3.9 U	3.7 U	3.8 U	3.6 U	3.7 U	3.7 U	3.8 U	3.9 U	3.7 U	4.2 U	4.4 U	4.2 U
Chloroethane	ug/kg	4.6 U	3.9 U	3.7 U	3.8 U	3.6 U	3.7 U	3.7 U	3.8 U	3.9 U	3.7 U	4.2 U	4.4 U	4.2 U
Vinyl Chloride	ug/kg	4.6 U	3.9 U	3.7 U	3.8 U	3.6 U	3.7 U	3.7 U	3.8 U	3.9 U	3.7 U	4.2 U	4.4 U	4.2 U
Methylene chloride	ug/kg	4.6 U	3.9 U	3.7 U	3.8 U	3.6 U	3.7 U	3.7 U	3.8 U	3.9 U	3.7 U	4.2 U	4.4 U	4.2 U
Bromoform	ug/kg	4.6 U	3.9 U	3.7 U	3.8 U	3.6 U	3.7 U	3.7 U	3.8 U	3.9 U	3.7 U	4.2 U	4.4 U	4.2 U
Bromodichloromethane	ug/kg	4.6 U	3.9 U	3.7 U	3.8 U	3.6 U	3.7 U	3.7 U	3.8 U	3.9 U	3.7 U	4.2 U	4.4 U	4.2 U
1,1-Dichloroethane	ug/kg	4.6 U	3.9 U	3.7 U	3.8 U	3.6 U	3.7 U	3.7 U	3.8 U	3.9 U	3.7 U	4.2 U	4.4 U	4.2 U
1,1-Dichloroethene	ug/kg	4.6 U	3.9 U	3.7 U	3.8 U	3.6 U	3.7 U	3.7 U	3.8 U	3.9 U	3.7 U	4.2 U	4.4 U	4.2 U
Trichlorofluoromethane	ug/kg	4.6 U	3.9 U	3.7 U	3.8 U	3.6 U	3.7 U	3.7 U	3.8 U	3.9 U	3.7 U	4.2 U	4.4 U	4.2 U
Dichlorodifluoromethane	ug/kg	4.6 U	3.9 U	3.7 U	3.8 U	3.6 U	3.7 U	3.7 U	3.8 U	3.9 U	3.7 U	4.2 U	4.4 U	4.2 U
Freon 113a	ug/kg	5.7 U	4.8 U	4.7 U	4.7 U	4.5 U	4.6 U	4.6 U	4.7 U	4.8 U	4.6 U	5.2 U	5.5 U	5.2 U
Freon 113	ug/kg	4.6 U	3.9 U	3.7 U	3.8 U	3.6 U	3.7 U	3.7 U	3.8 U	3.9 U	3.7 U	4.2 U	4.4 U	4.2 U
1,2-Dichloropropane	ug/kg	4.6 U	3.9 U	3.7 U	3.8 U	3.6 U	3.7 U	3.7 U	3.8 U	3.9 U	3.7 U	4.2 U	4.4 U	4.2 U
2-Butanone	ug/kg	9.1 U	7.7 U	7.5 U	7.6 U	7.3 U	7.4 U	7.4 U	7.6 U	7.7 U	7.3 U	8.3 U	8.8 U	8.3 U
1,1,2-Trichloroethane	ug/kg	4.6 U	3.9 U	3.7 U	3.8 U	3.6 U	3.7 U	3.7 U	3.8 U	3.9 U	3.7 U	4.2 U	4.4 U	4.2 U
Trichloroethene	ug/kg	4.6 U	3.9 U	3.7 U	3.8 U	3.6 U	3.7 U	3.7 U	3.8 U	3.9 U	3.7 U	4.2 U	4.4 U	4.2 U
1,1,2,2-Tetrachloroethane	ug/kg	4.6 U	3.9 U	3.7 U	3.8 U	3.6 U	3.7 U	3.7 U	3.8 U	3.9 U	3.7 U	4.2 U	4.4 U	4.2 U
Chlorotrifluoroethene	ug/kg	5.7 U	4.8 U	4.7 UJ	4.7 U	4.5 U	4.6 U	4.6 U	4.7 U	4.8 U	4.6 U	5.2 U	5.5 U	5.2 U
1,2,3-Trichlorobenzene	ug/kg	4.6 U	3.9 U	3.7 U	3.8 U	3.6 U	3.7 U	3.7 U	3.8 U	3.9 U	3.7 U	4.2 U	4.4 U	4.2 U
o-Xylene	ug/kg	4.6 U	3.9 U	3.7 U	3.8 U	3.6 U	3.7 U	3.7 U	3.8 U	3.9 U	3.7 U	4.2 U	4.4 U	4.2 U
2-Chlorotoluene	ug/kg	4.6 U	3.9 U	3.7 U	3.8 U	3.6 U	3.7 U	3.7 U	3.8 U	3.9 U	3.7 U	4.2 U	4.4 U	4.2 U
1,2,4-Trimethylbenzene	ug/kg	4.6 U	3.9 U	3.7 U	3.8 U	3.6 U	3.7 U	3.7 U	3.8 U	3.9 U	3.7 U	4.2 U	4.4 U	4.2 U
1,2-Dibromo-3-chloropropane	ug/kg	4.6 U	3.9 U	3.7 U	3.8 U	3.6 U	3.7 U	3.7 U	3.8 U	3.9 U	3.7 U	4.2 U	4.4 U	4.2 U
1,2,3-Trichloropropane	ug/kg	4.6 U	3.9 U	3.7 U	3.8 U	3.6 U	3.7 U	3.7 U	3.8 U	3.9 U	3.7 U	4.2 U	4.4 U	4.2 U
tert-Butylbenzene	ug/kg	4.6 U	3.9 U	3.7 U	3.8 U	3.6 U	3.7 U	3.7 U	3.8 U	3.9 U	3.7 U	4.2 U	4.4 U	4.2 U
Isopropylbenzene	ug/kg	4.6 U	3.9 U	3.7 U	3.8 U	3.6 U	3.7 U	3.7 U	3.8 U	3.9 U	3.7 U	4.2 U	4.4 U	4.2 U

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

Appendix A7
Volatile Organics - Validated Data
HSA-5B

	Sample Name	SL-205-SA5B-SB-2.5-3.5	SL-207-SA5B-SB-2.5-3.5	SL-209-SA5B-SB-4.0-5.0	SL-210-SA5B-SB-4.0-5.0	SL-211-SA5B-SB-4.0-5.0	SL-225-SA5B-SB-2.0-3.0	SL-227-SA5B-SB-2.5-3.5	SL-229-SA5B-SB-2.0-3.0	SL-230-SA5B-SB-2.0-3.0	SL-234-SA5B-SB-2.5-3.5	SL-240-SA5B-SB-4.0-5.0	SL-253-SA5B-SB-3.0-4.0	SL-254-SA5B-SB-3.5-4.5
	Sample Date	02/03/2011	02/03/2011	02/02/2011	02/03/2011	02/03/2011	03/09/2011	03/11/2011	02/03/2011	02/03/2011	01/07/2011	01/10/2011	01/21/2011	01/21/2011
	Lab SDG	DE075	DE075	DE085	DE075	DE075	DE101	DE102	DE075	DE075	DE055	DE056	DE066	DE066
	Start Depth	2.5	2.5	4	4	4	2	2.5	2	2	2.5	4	3	3.5
	End Depth	3.5	3.5	5	5	5	3	3.5	3	3	3.5	5	4	4.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
GRO (C5-C12)	mg/kg	--	--	--	--	--	1 U	1 U	1.1 U	1 U	--	--	--	--
EFH (C15-C20)	mg/kg	--	--	--	--	--	1.4 U	1.4 U	1.3 U	1.4 U	--	--	--	--
EFH (C21-C30)	mg/kg	--	--	--	--	--	1.4 UJ	2.3	1.3 U	1.4 U	--	--	--	--
EFH (C30-C40)	mg/kg	--	--	--	--	--	1.4 UJ	5.9	1.3 U	1.4 U	--	--	--	--
EFH (C8-C11)	mg/kg	--	--	--	--	--	1.4 U	1.4 U	1.3 UJ	1.4 U	--	--	--	--
1,4-Dichlorobenzene	ug/kg	4.3 U	4.2 U	4.3 U	4.2 U	3.6 U	3.9 U	4.4 U	4.7 U	4 U	4.3 U	5 U	3.8 U	4.3 U
1,2,4-Trichlorobenzene	ug/kg	4.3 U	4.2 U	4.3 U	4.2 U	3.6 U	3.9 U	4.4 U	4.7 U	4 U	4.3 U	5 U	3.8 U	4.3 U
1,3-Dichlorobenzene	ug/kg	4.3 U	4.2 U	4.3 U	4.2 U	3.6 U	3.9 U	4.4 U	4.7 U	4 U	4.3 U	5 U	3.8 U	4.3 U
Hexachlorobutadiene	ug/kg	4.3 U	4.2 U	4.3 U	4.2 U	3.6 U	3.9 U	4.4 U	4.7 U	4 U	4.3 U	5 U	3.8 U	4.3 U
1,2-Dichlorobenzene	ug/kg	4.3 U	4.2 U	4.3 U	4.2 U	3.6 U	3.9 U	4.4 U	4.7 U	4 U	4.3 U	5 U	3.8 U	4.3 U
Isopropyltoluene	ug/kg	4.3 U	4.2 U	4.3 U	4.2 U	3.6 U	3.9 U	4.4 U	4.7 U	4 U	4.3 U	5 U	3.8 U	4.3 U
Ethylbenzene	ug/kg	4.3 U	4.2 U	0.25 J	4.2 U	3.6 U	3.9 U	4.4 U	4.7 U	4 U	4.3 U	5 U	3.8 U	4.3 U
Styrene	ug/kg	4.3 U	4.2 U	4.3 U	4.2 U	3.6 U	3.9 U	4.4 U	4.7 U	4 U	4.3 U	5 U	3.8 U	4.3 U
cis-1,3-Dichloropropene	ug/kg	4.3 UJ	4.2 UJ	4.3 U	4.2 UJ	3.6 UJ	3.9 U	4.4 U	4.7 UJ	4 UJ	4.3 U	5 U	3.8 U	4.3 U
trans-1,3-Dichloropropene	ug/kg	4.3 U	4.2 U	4.3 U	4.2 U	3.6 U	3.9 U	4.4 U	4.7 U	4 U	4.3 U	5 U	3.8 U	4.3 U
N-Propylbenzene	ug/kg	4.3 U	4.2 U	4.3 U	4.2 U	3.6 U	3.9 U	4.4 U	4.7 U	4 U	4.3 U	5 U	3.8 U	4.3 U
N-Butylbenzene	ug/kg	4.3 U	4.2 U	4.3 U	4.2 U	3.6 U	3.9 U	4.4 U	4.7 U	4 U	4.3 U	5 U	3.8 U	4.3 U
4-Chlorotoluene	ug/kg	4.3 U	4.2 U	4.3 U	4.2 U	3.6 U	3.9 U	4.4 U	4.7 U	4 U	4.3 U	5 U	3.8 U	4.3 U
1,2-Dibromoethane	ug/kg	4.3 U	4.2 U	4.3 U	4.2 U	3.6 U	3.9 U	4.4 U	4.7 U	4 U	4.3 U	5 U	3.8 U	4.3 U
1,2-Dichloroethane	ug/kg	4.3 U	4.2 U	4.3 U	4.2 U	3.6 U	3.9 U	4.4 U	4.7 U	4 U	4.3 U	5 U	3.8 U	4.3 U
4-Methyl-2-Pentanone	ug/kg	8.6 U	8.4 U	8.7 U	8.5 U	7.3 U	7.7 UJ	8.8 U	9.4 U	8 U	8.5 U	10 U	7.6 U	8.5 U
1,3,5-Trimethylbenzene	ug/kg	4.3 U	4.2 U	4.3 U	4.2 U	3.6 U	3.9 U	4.4 U	4.7 U	4 U	4.3 U	5 U	3.8 U	4.3 U
Bromobenzene	ug/kg	4.3 U	4.2 U	4.3 U	4.2 U	3.6 U	3.9 U	4.4 U	4.7 U	4 U	4.3 U	5 U	3.8 U	4.3 U
Toluene	ug/kg	4.3 U	4.2 U	4.3 U	4.2 U	3.6 U	3.9 U	4.4 U	4.7 U	4 U	4.3 U	5 U	3.8 U	4.3 U
Chlorobenzene	ug/kg	4.3 U	4.2 U	4.3 U	4.2 U	3.6 U	3.9 U	4.4 U	4.7 U	4 U	4.3 U	5 U	3.8 U	4.3 U
2-Chloroethyl Vinyl Ether	ug/kg	4.3 U	4.2 U	4.3 U	4.2 U	3.6 U	3.9 U	4.4 U	4.7 U	4 U	4.3 U	5 U	3.8 U	4.3 U
1,4-Dioxane	ug/kg	14 U	16 U	16 U	16 U	13 U	14 U	14 U	17 U	15 U	13 U	15 U	15 U	17 U
Dibromochloromethane	ug/kg	4.3 U	4.2 U	4.3 U	4.2 U	3.6 U	3.9 U	4.4 U	4.7 U	4 U	4.3 U	5 U	3.8 U	4.3 U
Tetrachloroethene	ug/kg	4.3 U	4.2 U	4.3 U	4.2 U	3.6 U	3.9 U	4.4 U	4.7 U	4 U	4.3 U	5 U	3.8 U	4.3 U
sec-Butylbenzene	ug/kg	4.3 U	4.2 U	4.3 U	4.2 U	3.6 U	3.9 U	4.4 U	4.7 U	4 U	4.3 U	5 U	3.8 U	4.3 U
1,3-Dichloropropane	ug/kg	4.3 U	4.2 U	4.3 U	4.2 U	3.6 U	3.9 U	4.4 U	4.7 U	4 U	4.3 U	5 U	3.8 U	4.3 U
cis-1,2-Dichloroethene	ug/kg	4.3 U	4.2 U	4.3 U	4.2 U	3.6 U	3.9 U	4.4 U	4.7 U	4 U	4.3 U	5 U	3.8 U	4.3 U
trans-1,2-Dichloroethene	ug/kg	4.3 U	4.2 U	4.3 U	4.2 U	3.6 U	3.9 U	4.4 U	4.7 U	4 U	4.3 U	5 U	3.8 U	4.3 U
Methyl tert-Butyl Ether	ug/kg	4.3 U	4.2 U	4.3 U	4.2 U	3.6 U	3.9 U	4.4 U	4.7 U	4 U	4.3 U	5 U	3.8 U	4.3 U
m,p-Xylene	ug/kg	4.3 U	1 J	0.96 J	4.2 U	3.6 U	3.9 U	4.4 U	4.7 U	4 U	4.3 U	5 U	3.8 U	4.3 U
Carbon tetrachloride	ug/kg	4.3 U	4.2 U	4.3 U	4.2 U	3.6 U	3.9 U	4.4 U	4.7 U	4 U	4.3 U	5 U	3.8 U	4.3 U
1,1-Dichloropropene	ug/kg	4.3 U	4.2 U	4.3 U	4.2 U	3.6 U	3.9 U	4.4 U	4.7 U	4 U	4.3 U	5 U	3.8 U	4.3 U
2-Hexanone	ug/kg	8.6 U	8.4 U	8.7 U	8.5 U	7.3 U	7.7 UJ	8.8 U	9.4 U	8 U	8.5 U	10 U	7.6 UJ	8.5 UJ
2,2-Dichloropropane	ug/kg	4.3 U	4.2 U	4.3 U	4.2 U	3.6 U	3.9 U	4.4 U	4.7 U	4 U	4.3 U	5 U	3.8 U	4.3 U
1,1,1,2-Tetrachloroethane	ug/kg	4.3 U	4.2 U	4.3 U	4.2 U	3.6 U	3.9 U	4.4 U	4.7 U	4 U	4.3 U	5 U	3.8 U	4.3 U
Acetone	ug/kg	8.6 U	8.4 U	8.7 U	8.5 U	7.3 U	7.7 U	8.8 U	9.4 U	8 U	8.5 U	10 U	7.6 U	8.5 U
Chloroform	ug/kg	4.3 U	4.2 U	4.3 U	4.2 U	3.6 U	3.9 U	4.4 U	4.7 U	4 U	4.3 U	5 U	3.8 U	4.3 U
Benzene	ug/kg	4.3 U	4.2 U	4.3 U	4.2 U	3.6 U	3.9 U	4.4 U	4.7 U	4 U	4.3 U	5 U	3.8 U	4.3 U
1,1,1-Trichloroethane	ug/kg	4.3 U	4.2 U	4.3 U	4.2 U	3.6 U	3.9 U	4.4 U	4.7 U	4 U	4.3 U	5 U	3.8 U	4.3 U
Bromomethane	ug/kg	4.3 U	4.2 U	4.3 U	4.2 U	3.6 U	3.9 U	4.4 U	4.7 U	4 U	4.3 U	5 U	3.8 U	4.3 U

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

Appendix A7
Volatile Organics - Validated Data
HSA-5B

	Sample Name	SL-205-SA5B-SB-2.5-3.5	SL-207-SA5B-SB-2.5-3.5	SL-209-SA5B-SB-4.0-5.0	SL-210-SA5B-SB-4.0-5.0	SL-211-SA5B-SB-4.0-5.0	SL-225-SA5B-SB-2.0-3.0	SL-227-SA5B-SB-2.5-3.5	SL-229-SA5B-SB-2.0-3.0	SL-230-SA5B-SB-2.0-3.0	SL-234-SA5B-SB-2.5-3.5	SL-240-SA5B-SB-4.0-5.0	SL-253-SA5B-SB-3.0-4.0	SL-254-SA5B-SB-3.5-4.5
	Sample Date	02/03/2011	02/03/2011	02/02/2011	02/03/2011	02/03/2011	03/09/2011	03/11/2011	02/03/2011	02/03/2011	01/07/2011	01/10/2011	01/21/2011	01/21/2011
	Lab SDG	DE075	DE075	DE085	DE075	DE075	DE101	DE102	DE075	DE075	DE055	DE056	DE066	DE066
	Start Depth	2.5	2.5	4	4	4	2	2.5	2	2	2.5	4	3	3.5
	End Depth	3.5	3.5	5	5	5	3	3.5	3	3	3.5	5	4	4.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Chloromethane	ug/kg	4.3 U	4.2 U	4.3 U	4.2 U	3.6 U	3.9 U	4.4 U	4.7 U	4 U	4.3 U	5 U	3.8 U	4.3 U
Dibromomethane	ug/kg	4.3 U	4.2 U	4.3 U	4.2 U	3.6 U	3.9 U	4.4 U	4.7 U	4 U	4.3 U	5 U	3.8 U	4.3 U
Bromochloromethane	ug/kg	4.3 U	4.2 U	4.3 U	4.2 U	3.6 U	3.9 UJ	4.4 U	4.7 U	4 U	4.3 U	5 U	3.8 U	4.3 U
Chloroethane	ug/kg	4.3 U	4.2 U	4.3 U	4.2 U	3.6 U	3.9 U	4.4 U	4.7 U	4 U	4.3 U	5 U	3.8 U	4.3 U
Vinyl Chloride	ug/kg	4.3 U	4.2 U	4.3 U	4.2 U	3.6 U	3.9 U	4.4 U	4.7 U	4 U	4.3 U	5 U	3.8 U	4.3 U
Methylene chloride	ug/kg	4.3 U	4.2 U	4.3 U	4.2 U	3.6 U	3.9 U	0.95	4.7 U	4 U	4.3 U	5 U	3.8 U	4.3 U
Bromoform	ug/kg	4.3 U	4.2 U	4.3 U	4.2 U	3.6 U	3.9 U	4.4 U	4.7 U	4 U	4.3 U	5 U	3.8 U	4.3 U
Bromodichloromethane	ug/kg	4.3 U	4.2 U	4.3 U	4.2 U	3.6 U	3.9 U	4.4 U	4.7 U	4 U	4.3 U	5 U	3.8 U	4.3 U
1,1-Dichloroethane	ug/kg	4.3 U	4.2 U	4.3 U	4.2 U	3.6 U	3.9 U	4.4 U	4.7 U	4 U	4.3 U	5 U	3.8 U	4.3 U
1,1-Dichloroethene	ug/kg	4.3 U	4.2 U	4.3 U	4.2 U	3.6 U	3.9 U	4.4 U	4.7 U	4 U	4.3 U	5 U	3.8 U	4.3 U
Trichlorofluoromethane	ug/kg	4.3 U	4.2 U	4.3 U	4.2 U	3.6 U	3.9 U	4.4 U	4.7 U	4 U	4.3 U	5 U	3.8 U	4.3 U
Dichlorodifluoromethane	ug/kg	4.3 U	4.2 U	4.3 U	4.2 U	3.6 U	3.9 U	4.4 U	4.7 U	4 U	4.3 U	5 U	3.8 U	4.3 U
Freon 113a	ug/kg	5.4 U	5.2 U	5.4 U	5.3 U	4.5 U	4.8 U	5.5 U	5.9 U	5 U	5.3 U	6.3 U	4.8 U	5.3 U
Freon 113	ug/kg	4.3 U	4.2 U	4.3 U	4.2 U	3.6 U	3.9 U	4.4 U	4.7 U	4 U	4.3 U	5 U	3.8 U	4.3 U
1,2-Dichloropropane	ug/kg	4.3 U	4.2 U	4.3 U	4.2 U	3.6 U	3.9 U	4.4 U	4.7 U	4 U	4.3 U	5 U	3.8 U	4.3 U
2-Butanone	ug/kg	8.6 U	8.4 U	8.7 U	8.5 U	7.3 U	7.7 U	8.8 U	9.4 U	8 U	8.5 U	10 U	7.6 U	8.5 U
1,1,2-Trichloroethane	ug/kg	4.3 U	4.2 U	4.3 U	4.2 U	3.6 U	3.9 U	4.4 U	4.7 U	4 U	4.3 U	5 U	3.8 U	4.3 U
Trichloroethene	ug/kg	4.3 U	4.2 U	4.3 U	4.2 U	3.6 U	3.9 U	4.4 U	4.7 U	4 U	4.3 U	5 U	3.8 U	4.3 U
1,1,2,2-Tetrachloroethane	ug/kg	4.3 U	4.2 U	4.3 U	4.2 U	3.6 U	3.9 U	4.4 U	4.7 U	4 U	4.3 U	5 U	3.8 U	4.3 U
Chlorotrifluoroethene	ug/kg	5.4 U	5.2 U	5.4 U	5.3 U	4.5 U	4.8 U	5.5 U	5.9 U	5 U	5.3 U	6.3 U	4.8 UJ	5.3 UJ
1,2,3-Trichlorobenzene	ug/kg	4.3 U	4.2 U	4.3 U	4.2 U	3.6 U	3.9 U	4.4 U	4.7 U	4 U	4.3 U	5 U	3.8 U	4.3 U
o-Xylene	ug/kg	4.3 U	4.2 U	4.3 U	4.2 U	3.6 U	3.9 U	4.4 U	4.7 U	4 U	4.3 U	5 U	3.8 U	4.3 U
2-Chlorotoluene	ug/kg	4.3 U	4.2 U	4.3 U	4.2 U	3.6 U	3.9 U	4.4 U	4.7 U	4 U	4.3 U	5 U	3.8 U	4.3 U
1,2,4-Trimethylbenzene	ug/kg	4.3 U	4.2 U	4.3 U	4.2 U	3.6 U	3.9 U	4.4 U	4.7 U	4 U	4.3 U	5 U	3.8 U	4.3 U
1,2-Dibromo-3-chloropropane	ug/kg	4.3 U	4.2 U	4.3 U	4.2 U	3.6 U	3.9 U	4.4 U	4.7 U	4 U	4.3 U	5 U	3.8 U	4.3 U
1,2,3-Trichloropropane	ug/kg	4.3 U	4.2 U	4.3 U	4.2 U	3.6 U	3.9 U	4.4 U	4.7 U	4 U	4.3 U	5 U	3.8 U	4.3 U
tert-Butylbenzene	ug/kg	4.3 U	4.2 U	4.3 U	4.2 U	3.6 U	3.9 U	4.4 U	4.7 U	4 U	4.3 U	5 U	3.8 U	4.3 U
Isopropylbenzene	ug/kg	4.3 U	4.2 U	4.3 U	4.2 U	3.6 U	3.9 U	4.4 U	4.7 U	4 U	4.3 U	5 U	3.8 U	4.3 U

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

Appendix A7
Volatile Organics - Validated Data
HSA-5B

	Sample Name	SL-259-SA5B-SB-4.0-5.0	SL-262-SA5B-SB-4.0-5.0	SL-263-SA5B-SB-2.0-3.0	SL-272-SA5B-SB-4.0-5.0	SL-273-SA5B-SB-2.0-3.0	SL-274-SA5B-SB-4.0-5.0	SL-275-SA5B-SB-3.5-4.5	SL-276-SA5B-SB-4.0-5.0	SL-277-SA5B-SB-2.5-3.5	SL-278-SA5B-SB-2.0-3.0	SL-279-SA5B-SB-2.5-3.5	SL-280-SA5B-SB-4.0-5.0	SL-281-SA5B-SB-4.0-5.0
	Sample Date	01/04/2011	01/26/2011	01/26/2011	02/04/2011	02/04/2011	02/03/2011	02/02/2011	02/01/2011	02/01/2011	02/01/2011	02/01/2011	01/18/2011	12/17/2010
	Lab SDG	DE052	DE069	DE069	DE076	DE076	DE075	DE085	DE072	DE072	DE072	DE072	DE063	DE045
	Start Depth	4	4	2	4	2	4	3.5	4	2.5	2	2.5	4	4
	End Depth	5	5	3	5	3	5	4.5	5	3.5	3	3.5	5	5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
GRO (C5-C12)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	1 U
EFH (C15-C20)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	1.4 U
EFH (C21-C30)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	3.6
EFH (C30-C40)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	7.6
EFH (C8-C11)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	1.4 U
1,4-Dichlorobenzene	ug/kg	4.6 U	4.7 U	4.6 U	3.6 U	3.9 U	3.7 U	3.9 U	4.3 U	3.9 U	4.5 U	4 U	4 U	4.5 U
1,2,4-Trichlorobenzene	ug/kg	4.6 U	4.7 U	4.6 U	3.6 U	3.9 U	3.7 U	3.9 U	4.3 UJ	3.9 U	4.5 UJ	4 U	4 U	4.5 U
1,3-Dichlorobenzene	ug/kg	4.6 U	4.7 U	4.6 U	3.6 U	3.9 U	3.7 U	3.9 U	4.3 U	3.9 U	4.5 U	4 U	4 U	4.5 U
Hexachlorobutadiene	ug/kg	4.6 U	4.7 U	4.6 U	3.6 U	3.9 U	3.7 U	3.9 U	4.3 U	3.9 U	4.5 U	4 U	4 U	4.5 U
1,2-Dichlorobenzene	ug/kg	4.6 U	4.7 U	4.6 U	3.6 U	3.9 U	3.7 U	3.9 U	4.3 U	3.9 U	4.5 U	4 U	4 U	4.5 U
Isopropyltoluene	ug/kg	4.6 U	4.7 U	4.6 U	3.6 U	3.9 U	3.7 U	3.9 U	4.3 U	3.9 U	4.5 U	4 U	4 U	4.5 U
Ethylbenzene	ug/kg	4.6 U	4.7 U	4.6 U	3.6 U	3.9 U	3.7 U	0.14 J	0.46 J	3.9 U	4.5 U	4 U	4 U	4.5 U
Styrene	ug/kg	4.6 U	4.7 U	4.6 U	3.6 U	3.9 U	3.7 U	3.9 U	4.3 U	3.9 U	4.5 U	4 U	4 U	4.5 U
cis-1,3-Dichloropropene	ug/kg	4.6 U	4.7 U	4.6 U	3.6 UJ	3.9 UJ	3.7 UJ	3.9 U	4.3 UJ	3.9 U	4.5 UJ	4 U	4 U	4.5 U
trans-1,3-Dichloropropene	ug/kg	4.6 U	4.7 U	4.6 U	3.6 U	3.9 U	3.7 U	3.9 U	4.3 U	3.9 U	4.5 U	4 U	4 U	4.5 U
N-Propylbenzene	ug/kg	4.6 U	4.7 U	4.6 U	3.6 U	3.9 U	3.7 U	3.9 U	4.3 U	3.9 U	4.5 U	4 U	4 U	4.5 U
N-Butylbenzene	ug/kg	4.6 U	4.7 U	4.6 U	3.6 U	3.9 U	3.7 U	3.9 U	4.3 U	3.9 U	4.5 U	4 U	4 U	4.5 U
4-Chlorotoluene	ug/kg	4.6 U	4.7 U	4.6 U	3.6 U	3.9 U	3.7 U	3.9 U	4.3 U	3.9 U	4.5 U	4 U	4 U	4.5 U
1,2-Dibromoethane	ug/kg	4.6 U	4.7 U	4.6 U	3.6 U	3.9 U	3.7 U	3.9 U	4.3 U	3.9 U	4.5 U	4 U	4 U	4.5 U
1,2-Dichloroethane	ug/kg	4.6 U	4.7 U	4.6 U	3.6 U	3.9 U	3.7 U	3.9 U	4.3 U	3.9 U	4.5 U	4 U	4 U	4.5 U
4-Methyl-2-Pentanone	ug/kg	9.2 U	9.5 U	9.2 U	7.3 U	7.8 U	7.4 U	7.8 U	8.6 U	7.9 U	8.9 U	8 U	8 UJ	9 U
1,3,5-Trimethylbenzene	ug/kg	4.6 U	4.7 U	4.6 U	3.6 U	3.9 U	3.7 U	3.9 U	4.3 U	3.9 U	4.5 U	4 U	4 U	4.5 U
Bromobenzene	ug/kg	4.6 U	4.7 U	4.6 U	3.6 U	3.9 U	3.7 U	3.9 U	4.3 U	3.9 U	4.5 U	4 U	4 U	4.5 U
Toluene	ug/kg	4.6 U	4.7 U	4.6 U	3.6 U	3.9 U	3.7 U	3.9 U	4.3 U	3.9 U	4.5 U	4 U	4 U	4.5 U
Chlorobenzene	ug/kg	4.6 U	4.7 U	4.6 U	3.6 U	3.9 U	3.7 U	3.9 U	4.3 U	3.9 U	4.5 U	4 U	4 U	4.5 U
2-Chloroethyl Vinyl Ether	ug/kg	4.6 U	4.7 U	4.6 U	3.6 U	3.9 U	3.7 U	3.9 U	4.3 U	3.9 U	4.5 U	4 U	4 U	4.5 U
1,4-Dioxane	ug/kg	15 U	17 U	16 U	13 U	15 U	14 U	15 U	16 U	14 U	16 U	15 U	14 U	14 U
Dibromochloromethane	ug/kg	4.6 U	4.7 U	4.6 U	3.6 U	3.9 U	3.7 U	3.9 U	4.3 U	3.9 U	4.5 U	4 U	4 U	4.5 U
Tetrachloroethene	ug/kg	4.6 U	4.7 U	4.6 U	3.6 U	3.9 U	3.7 U	3.9 U	4.3 U	3.9 U	4.5 U	4 U	4 U	4.5 U
sec-Butylbenzene	ug/kg	4.6 U	4.7 U	4.6 U	3.6 U	3.9 U	3.7 U	3.9 U	4.3 U	3.9 U	4.5 U	4 U	4 U	4.5 U
1,3-Dichloropropane	ug/kg	4.6 U	4.7 U	4.6 U	3.6 U	3.9 U	3.7 U	3.9 U	4.3 U	3.9 U	4.5 U	4 U	4 U	4.5 U
cis-1,2-Dichloroethene	ug/kg	4.6 U	4.7 U	4.6 U	3.6 U	3.9 U	3.7 U	3.9 U	4.3 U	3.9 U	4.5 U	4 U	4 U	4.5 U
trans-1,2-Dichloroethene	ug/kg	4.6 U	4.7 U	4.6 U	3.6 U	3.9 U	3.7 U	3.9 U	4.3 U	3.9 U	4.5 U	4 U	4 U	4.5 U
Methyl tert-Butyl Ether	ug/kg	4.6 U	4.7 U	4.6 U	3.6 U	3.9 U	3.7 U	3.9 U	4.3 U	3.9 U	4.5 U	4 U	4 U	4.5 U
m,p-Xylene	ug/kg	4.6 U	4.7 U	4.6 U	3.6 U	3.9 U	3.7 U	0.48 J	1.7 J	3.9 U	4.5 U	4 U	4 U	4.5 U
Carbon tetrachloride	ug/kg	4.6 U	4.7 U	4.6 U	3.6 U	3.9 U	3.7 U	3.9 U	4.3 U	3.9 U	4.5 U	4 U	4 U	4.5 U
1,1-Dichloropropene	ug/kg	4.6 U	4.7 U	4.6 U	3.6 U	3.9 U	3.7 U	3.9 U	4.3 U	3.9 U	4.5 U	4 U	4 U	4.5 U
2-Hexanone	ug/kg	9.2 U	9.5 U	9.2 U	7.3 U	7.8 U	7.4 U	7.8 U	8.6 U	7.9 U	8.9 U	8 U	8 U	9 U
2,2-Dichloropropane	ug/kg	4.6 U	4.7 U	4.6 U	3.6 U	3.9 U	3.7 U	3.9 U	4.3 U	3.9 U	4.5 U	4 U	4 U	4.5 U
1,1,1,2-Tetrachloroethane	ug/kg	4.6 U	4.7 U	4.6 U	3.6 U	3.9 U	3.7 U	3.9 U	4.3 U	3.9 U	4.5 U	4 U	4 U	4.5 U
Acetone	ug/kg	13	9.5 U	9.2 U	7.3 U	7.8 U	7.4 U	7.8 U	8.6 U	7.9 U	8.9 U	8 U	8 U	16
Chloroform	ug/kg	4.6 U	4.7 U	4.6 U	3.6 U	3.9 U	3.7 U	3.9 U	4.3 U	3.9 U	4.5 U	4 U	4 U	4.5 U
Benzene	ug/kg	4.6 U	4.7 U	4.6 U	3.6 U	3.9 U	3.7 U	3.9 U	4.3 U	3.9 U	4.5 U	4 U	4 U	4.5 U
1,1,1-Trichloroethane	ug/kg	4.6 U	4.7 U	4.6 U	3.6 U	3.9 U	3.7 U	3.9 U	4.3 U	3.9 U	4.5 U	4 U	4 U	4.5 U
Bromomethane	ug/kg	4.6 U	4.7 U	4.6 U	3.6 U	3.9 U	3.7 U	3.9 U	4.3 U	3.9 U	4.5 U	4 U	4 U	4.5 U

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

Appendix A7
Volatile Organics - Validated Data
HSA-5B

	Sample Name	SL-259-SA5B-SB-4.0-5.0	SL-262-SA5B-SB-4.0-5.0	SL-263-SA5B-SB-2.0-3.0	SL-272-SA5B-SB-4.0-5.0	SL-273-SA5B-SB-2.0-3.0	SL-274-SA5B-SB-4.0-5.0	SL-275-SA5B-SB-3.5-4.5	SL-276-SA5B-SB-4.0-5.0	SL-277-SA5B-SB-2.5-3.5	SL-278-SA5B-SB-2.0-3.0	SL-279-SA5B-SB-2.5-3.5	SL-280-SA5B-SB-4.0-5.0	SL-281-SA5B-SB-4.0-5.0
	Sample Date	01/04/2011	01/26/2011	01/26/2011	02/04/2011	02/04/2011	02/03/2011	02/02/2011	02/01/2011	02/01/2011	02/01/2011	02/01/2011	01/18/2011	12/17/2010
	Lab SDG	DE052	DE069	DE069	DE076	DE076	DE075	DE085	DE072	DE072	DE072	DE072	DE063	DE045
	Start Depth	4	4	2	4	2	4	3.5	4	2.5	2	2.5	4	4
	End Depth	5	5	3	5	3	5	4.5	5	3.5	3	3.5	5	5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Chloromethane	ug/kg	4.6 U	4.7 U	4.6 U	3.6 U	3.9 U	3.7 U	3.9 U	4.3 U	3.9 U	4.5 U	4 U	4 U	4.5 U
Dibromomethane	ug/kg	4.6 U	4.7 U	4.6 U	3.6 U	3.9 U	3.7 U	3.9 U	4.3 U	3.9 U	4.5 U	4 U	4 U	4.5 U
Bromochloromethane	ug/kg	4.6 U	4.7 U	4.6 U	3.6 U	3.9 U	3.7 U	3.9 U	4.3 U	3.9 U	4.5 U	4 U	4 U	4.5 U
Chloroethane	ug/kg	4.6 U	4.7 U	4.6 U	3.6 U	3.9 U	3.7 U	3.9 U	4.3 U	3.9 U	4.5 U	4 U	4 U	4.5 U
Vinyl Chloride	ug/kg	4.6 U	4.7 U	4.6 U	3.6 U	3.9 U	3.7 U	3.9 U	4.3 U	3.9 U	4.5 U	4 U	4 U	4.5 U
Methylene chloride	ug/kg	0.5 J	4.7 U	4.6 U	3.6 U	3.9 U	3.7 U	3.9 U	4.3 U	3.9 U	4.5 U	4 U	4 U	4.5 U
Bromoform	ug/kg	4.6 U	4.7 U	4.6 U	3.6 U	3.9 U	3.7 U	3.9 U	4.3 U	3.9 U	4.5 U	4 U	4 U	4.5 U
Bromodichloromethane	ug/kg	4.6 U	4.7 U	4.6 U	3.6 U	3.9 U	3.7 U	3.9 U	4.3 U	3.9 U	4.5 U	4 U	4 U	4.5 U
1,1-Dichloroethane	ug/kg	4.6 U	4.7 U	4.6 U	3.6 U	3.9 U	3.7 U	3.9 U	4.3 U	3.9 U	4.5 U	4 U	4 U	4.5 U
1,1-Dichloroethene	ug/kg	4.6 U	4.7 U	4.6 U	3.6 U	3.9 U	3.7 U	3.9 U	4.3 U	3.9 U	4.5 U	4 U	4 U	4.5 U
Trichlorofluoromethane	ug/kg	4.6 U	4.7 U	4.6 U	3.6 U	3.9 U	3.7 U	3.9 U	4.3 U	3.9 U	4.5 U	4 U	4 U	4.5 U
Dichlorodifluoromethane	ug/kg	4.6 U	4.7 U	4.6 U	3.6 U	3.9 U	3.7 U	3.9 U	4.3 U	3.9 U	4.5 U	4 U	4 U	4.5 U
Freon 113a	ug/kg	5.7 U	5.9 U	5.7 U	4.6 U	4.8 U	4.6 U	4.8 U	5.4 U	4.9 U	5.6 U	5 U	5 U	5.6 U
Freon 113	ug/kg	4.6 U	4.7 U	4.6 U	3.6 U	3.9 U	3.7 U	3.9 U	4.3 U	3.9 U	4.5 U	4 U	4 U	4.5 U
1,2-Dichloropropane	ug/kg	4.6 U	4.7 U	4.6 U	3.6 U	3.9 U	3.7 U	3.9 U	4.3 U	3.9 U	4.5 U	4 U	4 U	4.5 U
2-Butanone	ug/kg	9.2 U	9.5 U	9.2 U	7.3 U	7.8 U	7.4 U	7.8 U	8.6 U	7.9 U	8.9 U	8 U	8 U	9 U
1,1,2-Trichloroethane	ug/kg	4.6 U	4.7 U	4.6 U	3.6 U	3.9 U	3.7 U	3.9 U	4.3 U	3.9 U	4.5 U	4 U	4 U	4.5 U
Trichloroethene	ug/kg	4.6 U	4.7 U	4.6 U	3.6 U	3.9 U	3.7 U	3.9 U	4.3 U	3.9 U	4.5 U	4 U	4 U	4.5 U
1,1,2,2-Tetrachloroethane	ug/kg	4.6 U	4.7 U	4.6 U	3.6 U	3.9 U	3.7 U	3.9 U	4.3 U	3.9 U	4.5 U	4 U	4 U	4.5 U
Chlorotrifluoroethene	ug/kg	5.7 U	5.9 U	5.7 U	4.6 U	4.8 U	4.6 U	4.8 U	5.4 U	4.9 U	5.6 U	5 U	5 U	5.6 U
1,2,3-Trichlorobenzene	ug/kg	4.6 U	4.7 U	4.6 U	3.6 U	3.9 U	3.7 U	3.9 U	4.3 U	3.9 U	4.5 U	4 U	4 U	4.5 U
o-Xylene	ug/kg	4.6 U	4.7 U	4.6 U	3.6 U	3.9 U	3.7 U	3.9 U	4.3 U	3.9 U	4.5 U	4 U	4 U	4.5 U
2-Chlorotoluene	ug/kg	4.6 U	4.7 U	4.6 U	3.6 U	3.9 U	3.7 U	3.9 U	4.3 U	3.9 U	4.5 U	4 U	4 U	4.5 U
1,2,4-Trimethylbenzene	ug/kg	4.6 U	4.7 U	4.6 U	3.6 U	3.9 U	3.7 U	3.9 U	4.3 U	3.9 U	4.5 U	4 U	4 U	4.5 U
1,2-Dibromo-3-chloropropane	ug/kg	4.6 U	4.7 U	4.6 U	3.6 U	3.9 U	3.7 U	3.9 U	4.3 U	3.9 U	4.5 U	4 U	4 U	4.5 U
1,2,3-Trichloropropane	ug/kg	4.6 U	4.7 U	4.6 U	3.6 U	3.9 U	3.7 U	3.9 U	4.3 U	3.9 U	4.5 U	4 U	4 U	4.5 U
tert-Butylbenzene	ug/kg	4.6 U	4.7 U	4.6 U	3.6 U	3.9 U	3.7 U	3.9 U	4.3 U	3.9 U	4.5 U	4 U	4 U	4.5 U
Isopropylbenzene	ug/kg	4.6 U	4.7 U	4.6 U	3.6 U	3.9 U	3.7 U	3.9 U	4.3 U	3.9 U	4.5 U	4 U	4 U	4.5 U

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

Appendix A7
Volatile Organics - Validated Data
HSA-5B

	Sample Name	SL-281-SA5B-SB-8.0-9.0	SL-282-SA5B-SB-4.0-5.0	SL-282-SA5B-SB-7.0-8.0	SL-283-SA5B-SB-4.0-5.0	SL-287-SA5B-SB-4.0-5.0	SL-294-SA5B-SB-4.0-5.0	SL-294-SA5B-SB-9.0-10.0	SL-295-SA5B-SB-4.0-5.0	SL-296-SA5B-SB-4.0-5.0	SL-297-SA5B-SB-4.0-5.0	SL-297-SA5B-SB-7.0-8.0	SL-298-SA5B-SB-4.0-5.0	SL-298-SA5B-SB-9.0-10.0
	Sample Date	12/17/2010	12/17/2010	12/17/2010	01/18/2011	01/19/2011	01/20/2011	01/20/2011	01/18/2011	01/18/2011	12/15/2010	12/15/2010	12/15/2010	12/15/2010
	Lab SDG	DE045	DE045	DE045	DE063	DE064	DE065	DE065	DE063	DE063	DE041	DE041	DE041	DE041
	Start Depth	8	4	7	4	4	4	9	4	4	4	7	4	9
	End Depth	9	5	8	5	5	5	10	5	5	5	8	5	10
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
GRO (C5-C12)	mg/kg	1 U	1 U	1 U	--	--	1 U	0.9 U	--	--	1 U	1.2 U	1.2 U	1.1 U
EFH (C15-C20)	mg/kg	1.4 U	1.3 U	1.3 U	--	--	1.2 J	1.6	--	--	1.4 U	1.4 U	1 J	1.3 U
EFH (C21-C30)	mg/kg	1.8	2.7	1.3 U	--	--	22 J	18	--	--	4.6	3.2	9.2	0.46 J
EFH (C30-C40)	mg/kg	3.8	8.1	1 J	--	--	52	36	--	--	12	7.9	15	0.59 J
EFH (C8-C11)	mg/kg	1.4 U	1.3 U	1.3 U	--	--	1.3 R	1.3 U	--	--	1.4 U	1.4 U	1.4 U	1.3 U
1,4-Dichlorobenzene	ug/kg	4.6 U	4.1 U	4 U	3.8 U	4.3 U	3.7 U	3.3 U	4 U	4.1 U	4.2 U	4.9 U	4.7 U	4.6 U
1,2,4-Trichlorobenzene	ug/kg	4.6 U	4.1 U	4 U	3.8 U	4.3 U	3.7 U	3.3 U	4 U	4.1 U	4.2 U	4.9 U	4.7 U	4.6 U
1,3-Dichlorobenzene	ug/kg	4.6 U	4.1 U	4 U	3.8 U	4.3 U	3.7 U	3.3 U	4 U	4.1 U	4.2 U	4.9 U	4.7 U	4.6 U
Hexachlorobutadiene	ug/kg	4.6 U	4.1 U	4 U	3.8 U	4.3 U	3.7 U	3.3 U	4 U	4.1 U	4.2 U	4.9 U	4.7 U	4.6 U
1,2-Dichlorobenzene	ug/kg	4.6 U	4.1 U	4 U	3.8 U	4.3 U	3.7 U	3.3 U	4 U	4.1 U	4.2 U	4.9 U	4.7 U	4.6 U
Isopropyltoluene	ug/kg	4.6 U	4.1 U	4 U	3.8 U	4.3 U	3.7 U	3.3 U	4 U	4.1 U	4.2 U	4.9 U	4.7 U	4.6 U
Ethylbenzene	ug/kg	4.6 U	4.1 U	4 U	3.8 U	4.3 U	3.7 U	3.3 U	4 U	4.1 U	4.2 U	4.9 U	4.7 U	4.6 U
Styrene	ug/kg	4.6 U	4.1 U	4 U	3.8 U	4.3 U	3.7 U	3.3 U	4 U	4.1 U	4.2 U	4.9 U	4.7 U	4.6 U
cis-1,3-Dichloropropene	ug/kg	4.6 U	4.1 U	4 U	3.8 U	4.3 U	3.7 U	3.3 U	4 U	4.1 U	4.2 U	4.9 U	4.7 U	4.6 U
trans-1,3-Dichloropropene	ug/kg	4.6 U	4.1 U	4 U	3.8 U	4.3 U	3.7 U	3.3 U	4 U	4.1 U	4.2 U	4.9 U	4.7 U	4.6 U
N-Propylbenzene	ug/kg	4.6 U	4.1 U	4 U	3.8 U	4.3 U	3.7 U	3.3 U	4 U	4.1 U	4.2 U	4.9 U	4.7 U	4.6 U
N-Butylbenzene	ug/kg	4.6 U	4.1 U	4 U	3.8 U	4.3 U	3.7 U	3.3 U	4 U	4.1 U	4.2 U	4.9 U	4.7 U	4.6 U
4-Chlorotoluene	ug/kg	4.6 U	4.1 U	4 U	3.8 U	4.3 U	3.7 U	3.3 U	4 U	4.1 U	4.2 U	4.9 U	4.7 U	4.6 U
1,2-Dibromoethane	ug/kg	4.6 U	4.1 U	4 U	3.8 U	4.3 U	3.7 U	3.3 U	4 U	4.1 U	4.2 U	4.9 U	4.7 U	4.6 U
1,2-Dichloroethane	ug/kg	4.6 U	4.1 U	4 U	3.8 U	4.3 U	3.7 U	3.3 U	4 U	4.1 U	4.2 U	4.9 U	4.7 U	4.6 U
4-Methyl-2-Pentanone	ug/kg	9.3 U	8.1 U	7.9 U	7.7 UJ	8.6 U	7.5 U	6.7 U	8 UJ	8.2 UJ	8.3 U	9.8 U	9.4 U	9.2 U
1,3,5-Trimethylbenzene	ug/kg	4.6 U	4.1 U	4 U	3.8 U	4.3 U	3.7 U	3.3 U	4 U	4.1 U	4.2 U	4.9 U	4.7 U	4.6 U
Bromobenzene	ug/kg	4.6 U	4.1 U	4 U	3.8 U	4.3 U	3.7 U	3.3 U	4 U	4.1 U	4.2 U	4.9 U	4.7 U	4.6 U
Toluene	ug/kg	4.6 U	4.1 U	4 U	3.8 U	4.3 U	3.7 U	3.3 U	4 U	4.1 U	4.2 U	4.9 U	4.7 U	4.6 U
Chlorobenzene	ug/kg	4.6 U	4.1 U	4 U	3.8 U	4.3 U	3.7 U	3.3 U	4 U	4.1 U	4.2 U	4.9 U	4.7 U	4.6 U
2-Chloroethyl Vinyl Ether	ug/kg	4.6 U	4.1 U	4 U	3.8 U	4.3 U	3.7 U	3.3 U	4 U	4.1 U	4.2 U	4.9 U	4.7 U	4.6 U
1,4-Dioxane	ug/kg	14 U	17 U	13 U	14 U	16 U	16 U	15 U	14 U	15 U	5.2 J	19 U	15 U	16 U
Dibromochloromethane	ug/kg	4.6 U	4.1 U	4 U	3.8 U	4.3 U	3.7 U	3.3 U	4 U	4.1 U	4.2 U	4.9 U	4.7 U	4.6 U
Tetrachloroethene	ug/kg	4.6 U	4.1 U	4 U	3.8 U	4.3 U	3.7 U	3.3 U	4 U	4.1 U	4.2 U	4.9 U	4.7 U	4.6 U
sec-Butylbenzene	ug/kg	4.6 U	4.1 U	4 U	3.8 U	4.3 U	3.7 U	3.3 U	4 U	4.1 U	4.2 U	4.9 U	4.7 U	4.6 U
1,3-Dichloropropane	ug/kg	4.6 U	4.1 U	4 U	3.8 U	4.3 U	3.7 U	3.3 U	4 U	4.1 U	4.2 U	4.9 U	4.7 U	4.6 U
cis-1,2-Dichloroethene	ug/kg	4.6 U	4.1 U	4 U	3.8 U	4.3 U	3.7 U	3.3 U	4 U	4.1 U	4.2 U	4.9 U	4.7 U	4.6 U
trans-1,2-Dichloroethene	ug/kg	4.6 U	4.1 U	4 U	3.8 U	4.3 U	3.7 U	3.3 U	4 U	4.1 U	4.2 U	4.9 U	4.7 U	4.6 U
Methyl tert-Butyl Ether	ug/kg	4.6 U	4.1 U	4 U	3.8 U	4.3 U	3.7 U	3.3 U	4 U	4.1 U	4.2 U	4.9 U	4.7 U	4.6 U
m,p-Xylene	ug/kg	4.6 U	4.1 U	4 U	3.8 U	4.3 U	3.7 U	3.3 U	4 U	4.1 U	4.2 U	4.9 U	4.7 U	4.6 U
Carbon tetrachloride	ug/kg	4.6 U	4.1 U	4 U	3.8 U	4.3 U	3.7 U	3.3 U	4 U	4.1 U	4.2 U	4.9 U	4.7 U	4.6 U
1,1-Dichloropropene	ug/kg	4.6 U	4.1 U	4 U	3.8 U	4.3 U	3.7 U	3.3 U	4 U	4.1 U	4.2 U	4.9 U	4.7 U	4.6 U
2-Hexanone	ug/kg	9.3 U	8.1 U	7.9 U	7.7 U	8.6 U	7.5 U	6.7 U	8 U	8.2 U	8.3 U	9.8 U	9.4 U	9.2 U
2,2-Dichloropropane	ug/kg	4.6 U	4.1 U	4 U	3.8 U	4.3 U	3.7 U	3.3 U	4 U	4.1 U	4.2 U	4.9 U	4.7 U	4.6 U
1,1,1,2-Tetrachloroethane	ug/kg	4.6 U	4.1 U	4 U	3.8 U	4.3 U	3.7 U	3.3 U	4 U	4.1 U	4.2 U	4.9 U	4.7 U	4.6 U
Acetone	ug/kg	43	99	47	7.7 U	8.6 U	7.5 U	6.7 U	8 U	8.2 U	24	53	130	46
Chloroform	ug/kg	4.6 U	4.1 U	4 U	3.8 U	4.3 U	3.7 U	3.3 U	4 U	4.1 U	4.2 U	4.9 U	4.7 U	4.6 U
Benzene	ug/kg	4.6 U	4.1 U	4 U	3.8 U	4.3 U	3.7 U	3.3 U	4 U	4.1 U	4.2 U	4.9 U	4.7 U	4.6 U
1,1,1-Trichloroethane	ug/kg	4.6 U	4.1 U	4 U	3.8 U	4.3 U	3.7 U	3.3 U	4 U	4.1 U	4.2 U	4.9 U	4.7 U	4.6 U
Bromomethane	ug/kg	4.6 U	4.1 U	4 U	3.8 U	4.3 U	3.7 U	3.3 U	4 U	4.1 U	4.2 U	4.9 U	4.7 U	4.6 U

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

Appendix A7
Volatile Organics - Validated Data
HSA-5B

	Sample Name	SL-281-SA5B-SB-8.0-9.0	SL-282-SA5B-SB-4.0-5.0	SL-282-SA5B-SB-7.0-8.0	SL-283-SA5B-SB-4.0-5.0	SL-287-SA5B-SB-4.0-5.0	SL-294-SA5B-SB-4.0-5.0	SL-294-SA5B-SB-9.0-10.0	SL-295-SA5B-SB-4.0-5.0	SL-296-SA5B-SB-4.0-5.0	SL-297-SA5B-SB-4.0-5.0	SL-297-SA5B-SB-7.0-8.0	SL-298-SA5B-SB-4.0-5.0	SL-298-SA5B-SB-9.0-10.0
	Sample Date	12/17/2010	12/17/2010	12/17/2010	01/18/2011	01/19/2011	01/20/2011	01/20/2011	01/18/2011	01/18/2011	12/15/2010	12/15/2010	12/15/2010	12/15/2010
	Lab SDG	DE045	DE045	DE045	DE063	DE064	DE065	DE065	DE063	DE063	DE041	DE041	DE041	DE041
	Start Depth	8	4	7	4	4	4	9	4	4	4	7	4	9
	End Depth	9	5	8	5	5	5	10	5	5	5	8	5	10
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Chloromethane	ug/kg	4.6 U	4.1 U	4 U	3.8 U	4.3 U	3.7 U	3.3 U	4 U	4.1 U	4.2 U	4.9 U	4.7 U	4.6 U
Dibromomethane	ug/kg	4.6 U	4.1 U	4 U	3.8 U	4.3 U	3.7 U	3.3 U	4 U	4.1 U	4.2 U	4.9 U	4.7 U	4.6 U
Bromochloromethane	ug/kg	4.6 U	4.1 U	4 U	3.8 U	4.3 U	3.7 U	3.3 U	4 U	4.1 U	4.2 U	4.9 U	4.7 U	4.6 U
Chloroethane	ug/kg	4.6 U	4.1 U	4 U	3.8 U	4.3 U	3.7 U	3.3 U	4 U	4.1 U	4.2 U	4.9 U	4.7 U	4.6 U
Vinyl Chloride	ug/kg	4.6 U	4.1 U	4 U	3.8 U	4.3 U	3.7 U	3.3 U	4 U	4.1 U	4.2 U	4.9 U	4.7 U	4.6 U
Methylene chloride	ug/kg	4.6 U	4.1 U	4 U	3.8 U	4.3 U	3.7 UJ	3.3 U	4 U	4.1 U	4.2 U	4.9 U	4.7 U	4.6 U
Bromoform	ug/kg	4.6 U	4.1 U	4 U	3.8 U	4.3 U	3.7 U	3.3 U	4 U	4.1 U	4.2 U	4.9 U	4.7 U	4.6 U
Bromodichloromethane	ug/kg	4.6 U	4.1 U	4 U	3.8 U	4.3 U	3.7 U	3.3 U	4 U	4.1 U	4.2 U	4.9 U	4.7 U	4.6 U
1,1-Dichloroethane	ug/kg	4.6 U	4.1 U	4 U	3.8 U	4.3 U	3.7 U	3.3 U	4 U	4.1 U	4.2 U	4.9 U	4.7 U	4.6 U
1,1-Dichloroethene	ug/kg	4.6 U	4.1 U	4 U	3.8 U	4.3 U	3.7 U	3.3 U	4 U	4.1 U	4.2 U	4.9 U	4.7 U	4.6 U
Trichlorofluoromethane	ug/kg	4.6 U	4.1 U	4 U	3.8 U	4.3 U	3.7 U	3.3 U	4 U	4.1 U	4.2 U	4.9 U	4.7 U	4.6 U
Dichlorodifluoromethane	ug/kg	4.6 U	4.1 U	4 U	3.8 U	4.3 U	3.7 U	3.3 U	4 U	4.1 U	4.2 U	4.9 U	4.7 U	4.6 U
Freon 113a	ug/kg	5.8 U	5.1 U	5 U	4.8 U	5.4 U	4.7 U	4.2 U	5 U	5.1 U	5.2 U	6.1 U	5.8 U	5.7 U
Freon 113	ug/kg	4.6 U	4.1 U	4 U	3.8 U	4.3 U	3.7 U	3.3 U	4 U	4.1 U	4.2 U	4.9 U	4.7 U	4.6 U
1,2-Dichloropropane	ug/kg	4.6 U	4.1 U	4 U	3.8 U	4.3 U	3.7 U	3.3 U	4 U	4.1 U	4.2 U	4.9 U	4.7 U	4.6 U
2-Butanone	ug/kg	7.4 J	20	5.8 J	7.7 U	8.6 U	7.5 U	6.7 U	8 U	8.2 U	3.4 J	6.1 J	18	3.5 J
1,1,2-Trichloroethane	ug/kg	4.6 U	4.1 U	4 U	3.8 U	4.3 U	3.7 U	3.3 U	4 U	4.1 U	4.2 U	4.9 U	4.7 U	4.6 U
Trichloroethene	ug/kg	4.6 U	4.1 U	4 U	3.8 U	4.3 U	3.7 U	3.3 U	4 U	4.1 U	4.2 U	4.9 U	4.7 U	4.6 U
1,1,2,2-Tetrachloroethane	ug/kg	4.6 U	4.1 U	4 U	3.8 U	4.3 U	3.7 U	3.3 U	4 U	4.1 U	4.2 U	4.9 U	4.7 U	4.6 U
Chlorotrifluoroethene	ug/kg	5.8 U	5.1 U	5 U	4.8 U	5.4 U	4.7 U	4.2 U	5 U	5.1 U	5.2 U	6.1 U	5.8 U	5.7 U
1,2,3-Trichlorobenzene	ug/kg	4.6 U	4.1 U	4 U	3.8 U	4.3 U	3.7 U	3.3 U	4 U	4.1 U	4.2 U	4.9 U	4.7 U	4.6 U
o-Xylene	ug/kg	4.6 U	4.1 U	4 U	3.8 U	4.3 U	3.7 U	3.3 U	4 U	4.1 U	4.2 U	4.9 U	4.7 U	4.6 U
2-Chlorotoluene	ug/kg	4.6 U	4.1 U	4 U	3.8 U	4.3 U	3.7 U	3.3 U	4 U	4.1 U	4.2 U	4.9 U	4.7 U	4.6 U
1,2,4-Trimethylbenzene	ug/kg	4.6 U	4.1 U	4 U	3.8 U	4.3 U	3.7 U	3.3 U	4 U	4.1 U	4.2 U	4.9 U	4.7 U	4.6 U
1,2-Dibromo-3-chloropropane	ug/kg	4.6 U	4.1 U	4 U	3.8 U	4.3 U	3.7 U	3.3 U	4 U	4.1 U	4.2 U	4.9 U	4.7 U	4.6 U
1,2,3-Trichloropropane	ug/kg	4.6 U	4.1 U	4 U	3.8 U	4.3 U	3.7 U	3.3 U	4 U	4.1 U	4.2 U	4.9 U	4.7 U	4.6 U
tert-Butylbenzene	ug/kg	4.6 U	4.1 U	4 U	3.8 U	4.3 U	3.7 U	3.3 U	4 U	4.1 U	4.2 U	4.9 U	4.7 U	4.6 U
Isopropylbenzene	ug/kg	4.6 U	4.1 U	4 U	3.8 U	4.3 U	3.7 U	3.3 U	4 U	4.1 U	4.2 U	4.9 U	4.7 U	4.6 U

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

Appendix A7
Volatile Organics - Validated Data
HSA-5B

		Sample Name	SL-301-SA5B-SB-4.0-5.0	SL-304-SA5B-SB-3.0-4.0	SL-307-SA5B-SB-4.0-5.0	SL-307-SA5B-SB-9.0-10.0	SL-307-SA5B-SB-14.0-15.0	SL-308-SA5B-SB-4.0-5.0	SL-308-SA5B-SB-9.0-10.0	SL-308-SA5B-SB-14.0-15.0	SL-313-SA5B-SB-4.0-5.0	SL-313-SA5B-SB-9.0-10.0	SL-314-SA5B-SS-0.0-0.5	SL-314-SA5B-SB-4.0-5.0	SL-315-SA5B-SS-0.0-0.5
		Sample Date	01/13/2011	03/09/2011	01/21/2011	01/21/2011	01/21/2011	01/21/2011	01/21/2011	01/21/2011	02/08/2011	02/08/2011	02/09/2011	02/08/2011	02/08/2011
		Lab SDG	DE060	DE101	DE066	DE066	DE066	DE066	DE066	DE066	DE078	DE078	DE079	DE078	DE078
		Start Depth	4	3	4	9	14	4	9	14	4	9	0	4	0
		End Depth	5	4	5	10	15	5	10	15	5	10	0.5	5	0.5
Chemical Name	Unit		Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
GRO (C5-C12)	mg/kg		--	1.1 U	1 U	1 U	1.1 U	0.9 U	0.9 U	0.2 J	0.9 U	1.2 U	--	0.9 U	--
EFH (C15-C20)	mg/kg		--	1.4 U	1.3 U	1.4 U	1.5 U	0.52 J	1.3 U	2.6	1.3 U	27 U	0.73 J	27 U	25 U
EFH (C21-C30)	mg/kg		--	1.4 UJ	0.5 J	1.4 U	1.5 U	3.3	2.6	5.2	3.7	91	5.5	86	59
EFH (C30-C40)	mg/kg		--	1.4 UJ	2.8	1.1 J	1.5 U	5.4	6.9	10	7.7	330	17	270	250
EFH (C8-C11)	mg/kg		--	1.4 U	1.3 U	1.4 U	1.5 U	1.4 U	1.3 U	1.3 U	1.3 U	27 U	1.3 U	27 U	25 U
1,4-Dichlorobenzene	ug/kg		3.9 U	3.8 U	4.1 U	4.2 U	3.9 U	3.8 U	3.8 U	4.1 U	4.2 U	4.4 U	--	4.2 U	--
1,2,4-Trichlorobenzene	ug/kg		3.9 U	3.8 U	4.1 U	4.2 U	3.9 U	3.8 U	3.8 U	4.1 U	4.2 U	4.4 U	--	4.2 U	--
1,3-Dichlorobenzene	ug/kg		3.9 U	3.8 U	4.1 U	4.2 U	3.9 U	3.8 U	3.8 U	4.1 U	4.2 U	4.4 U	--	4.2 U	--
Hexachlorobutadiene	ug/kg		3.9 U	3.8 U	4.1 U	4.2 U	3.9 U	3.8 U	3.8 U	4.1 U	4.2 U	4.4 U	--	4.2 U	--
1,2-Dichlorobenzene	ug/kg		3.9 U	3.8 U	4.1 U	4.2 U	3.9 U	3.8 U	3.8 U	4.1 U	4.2 U	4.4 U	--	4.2 U	--
Isopropyltoluene	ug/kg		3.9 U	3.8 U	4.1 U	4.2 U	3.9 U	3.8 U	3.8 U	4.1 U	4.2 U	4.4 U	--	4.2 U	--
Ethylbenzene	ug/kg		3.9 U	3.8 U	4.1 U	4.2 U	3.9 U	3.8 U	3.8 U	4.1 U	0.3 J	0.11 J	--	0.09 J	--
Styrene	ug/kg		3.9 U	3.8 U	4.1 U	4.2 U	3.9 U	3.8 U	3.8 U	4.1 U	5.7	4.4 U	--	4.2 U	--
cis-1,3-Dichloropropene	ug/kg		3.9 U	3.8 U	4.1 U	4.2 U	3.9 U	3.8 U	3.8 U	4.1 U	4.2 U	4.4 U	--	4.2 U	--
trans-1,3-Dichloropropene	ug/kg		3.9 U	3.8 U	4.1 U	4.2 U	3.9 U	3.8 U	3.8 U	4.1 U	4.2 U	4.4 U	--	4.2 U	--
N-Propylbenzene	ug/kg		3.9 U	3.8 U	4.1 U	4.2 U	3.9 U	3.8 U	3.8 U	4.1 U	4.2 U	4.4 U	--	4.2 U	--
N-Butylbenzene	ug/kg		3.9 U	3.8 U	4.1 U	4.2 U	3.9 U	3.8 U	3.8 U	4.1 U	4.2 U	4.4 U	--	4.2 U	--
4-Chlorotoluene	ug/kg		3.9 U	3.8 U	4.1 U	4.2 U	3.9 U	3.8 U	3.8 U	4.1 U	4.2 U	4.4 U	--	4.2 U	--
1,2-Dibromoethane	ug/kg		3.9 U	3.8 U	4.1 U	4.2 U	3.9 U	3.8 U	3.8 U	4.1 U	4.2 U	4.4 U	--	4.2 U	--
1,2-Dichloroethane	ug/kg		3.9 U	3.8 U	4.1 U	4.2 U	3.9 U	3.8 U	3.8 U	4.1 U	4.2 U	4.4 U	--	4.2 U	--
4-Methyl-2-Pentanone	ug/kg		7.9 U	7.6 UJ	8.3 U	8.5 UJ	7.8 UJ	7.5 U	7.7 U	8.2 U	8.4 U	8.9 U	--	8.4 U	--
1,3,5-Trimethylbenzene	ug/kg		3.9 U	3.8 U	4.1 U	4.2 U	3.9 U	3.8 U	3.8 U	4.1 U	4.2 U	4.4 U	--	4.2 U	--
Bromobenzene	ug/kg		3.9 U	3.8 U	4.1 U	4.2 U	3.9 U	3.8 U	3.8 U	4.1 U	4.2 U	4.4 U	--	4.2 U	--
Toluene	ug/kg		3.9 U	3.8 U	4.1 U	4.2 U	3.9 U	3.8 U	3.8 U	4.1 U	4.2 U	4.4 U	--	4.2 U	--
Chlorobenzene	ug/kg		3.9 U	3.8 U	4.1 U	4.2 U	3.9 U	3.8 U	3.8 U	4.1 U	4.2 U	4.4 U	--	4.2 U	--
2-Chloroethyl Vinyl Ether	ug/kg		3.9 U	3.8 U	4.1 U	4.2 U	3.9 U	3.8 U	3.8 U	4.1 U	4.2 U	4.4 U	--	4.2 U	--
1,4-Dioxane	ug/kg		14 U	15 U	13 U	16 U	14 U	15 U	14 U	9 J	15 U	17 U	--	14 U	--
Dibromochloromethane	ug/kg		3.9 U	3.8 U	4.1 U	4.2 U	3.9 U	3.8 U	3.8 U	4.1 U	4.2 U	4.4 U	--	4.2 U	--
Tetrachloroethene	ug/kg		3.9 U	3.8 U	4.1 U	4.2 U	3.9 U	3.8 U	3.8 U	4.1 U	4.2 U	4.4 U	--	4.2 U	--
sec-Butylbenzene	ug/kg		3.9 U	3.8 U	4.1 U	4.2 U	3.9 U	3.8 U	3.8 U	4.1 U	4.2 U	4.4 U	--	4.2 U	--
1,3-Dichloropropane	ug/kg		3.9 U	3.8 U	4.1 U	4.2 U	3.9 U	3.8 U	3.8 U	4.1 U	4.2 U	4.4 U	--	4.2 U	--
cis-1,2-Dichloroethene	ug/kg		3.9 U	3.8 U	4.1 U	4.2 U	3.9 U	3.8 U	3.8 U	4.1 U	4.2 U	4.4 U	--	4.2 U	--
trans-1,2-Dichloroethene	ug/kg		3.9 U	3.8 U	4.1 U	4.2 U	3.9 U	3.8 U	3.8 U	4.1 U	4.2 U	4.4 U	--	4.2 U	--
Methyl tert-Butyl Ether	ug/kg		3.9 U	3.8 U	4.1 U	4.2 U	3.9 U	3.8 U	3.8 U	4.1 U	4.2 U	4.4 U	--	4.2 U	--
m,p-Xylene	ug/kg		3.9 U	3.8 U	4.1 U	4.2 U	3.9 U	3.8 U	3.8 U	4.1 U	0.26 J	0.34 J	--	0.3 J	--
Carbon tetrachloride	ug/kg		3.9 U	3.8 U	4.1 U	4.2 U	3.9 U	3.8 U	3.8 U	4.1 U	4.2 U	4.4 U	--	4.2 U	--
1,1-Dichloropropene	ug/kg		3.9 U	3.8 U	4.1 U	4.2 U	3.9 U	3.8 U	3.8 U	4.1 U	4.2 U	4.4 U	--	4.2 U	--
2-Hexanone	ug/kg		7.9 U	7.6 UJ	8.3 UJ	8.5 UJ	7.8 UJ	7.5 UJ	7.7 UJ	8.2 UJ	8.4 U	8.9 U	--	8.4 U	--
2,2-Dichloropropane	ug/kg		3.9 U	3.8 U	4.1 U	4.2 U	3.9 U	3.8 U	3.8 U	4.1 U	4.2 U	4.4 U	--	4.2 U	--
1,1,1,2-Tetrachloroethane	ug/kg		3.9 U	3.8 U	4.1 U	4.2 U	3.9 U	3.8 U	3.8 U	4.1 U	4.2 U	4.4 U	--	4.2 U	--
Acetone	ug/kg		7.9 U	7.6 U	22	31	16	7.5 U	83	50	8.4 U	8.9 U	--	8.4 U	--
Chloroform	ug/kg		3.9 U	3.8 U	4.1 U	4.2 U	3.9 U	3.8 U	3.8 U	4.1 U	4.2 U	4.4 U	--	4.2 U	--
Benzene	ug/kg		3.9 U	3.8 U	4.1 U	4.2 U	3.9 U	3.8 U	3.8 U	4.1 U	0.2 J	4.4 U	--	4.2 U	--
1,1,1-Trichloroethane	ug/kg		3.9 U	3.8 U	4.1 U	4.2 U	3.9 U	3.8 U	3.8 U	4.1 U	4.2 U	4.4 U	--	4.2 U	--
Bromomethane	ug/kg		3.9 U	3.8 U	4.1 U	4.2 U	3.9 U	3.8 U	3.8 U	4.1 U	4.2 U	4.4 U	--	4.2 U	--

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

Appendix A7
Volatile Organics - Validated Data
HSA-5B

	Sample Name	SL-301-SA5B-SB-4.0-5.0	SL-304-SA5B-SB-3.0-4.0	SL-307-SA5B-SB-4.0-5.0	SL-307-SA5B-SB-9.0-10.0	SL-307-SA5B-SB-14.0-15.0	SL-308-SA5B-SB-4.0-5.0	SL-308-SA5B-SB-9.0-10.0	SL-308-SA5B-SB-14.0-15.0	SL-313-SA5B-SB-4.0-5.0	SL-313-SA5B-SB-9.0-10.0	SL-314-SA5B-SS-0.0-0.5	SL-314-SA5B-SB-4.0-5.0	SL-315-SA5B-SS-0.0-0.5
	Sample Date	01/13/2011	03/09/2011	01/21/2011	01/21/2011	01/21/2011	01/21/2011	01/21/2011	01/21/2011	02/08/2011	02/08/2011	02/09/2011	02/08/2011	02/08/2011
	Lab SDG	DE060	DE101	DE066	DE066	DE066	DE066	DE066	DE066	DE078	DE078	DE079	DE078	DE078
	Start Depth	4	3	4	9	14	4	9	14	4	9	0	4	0
	End Depth	5	4	5	10	15	5	10	15	5	10	0.5	5	0.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Chloromethane	ug/kg	3.9 U	3.8 U	4.1 U	4.2 U	3.9 U	3.8 U	3.8 U	4.1 U	4.2 U	4.4 U	--	4.2 U	--
Dibromomethane	ug/kg	3.9 U	3.8 U	4.1 U	4.2 U	3.9 U	3.8 U	3.8 U	4.1 U	4.2 U	4.4 U	--	4.2 U	--
Bromochloromethane	ug/kg	3.9 U	3.8 UJ	4.1 U	4.2 U	3.9 U	3.8 U	3.8 U	4.1 U	4.2 U	4.4 U	--	4.2 U	--
Chloroethane	ug/kg	3.9 U	3.8 U	4.1 U	4.2 U	3.9 U	3.8 U	3.8 U	4.1 U	4.2 U	4.4 U	--	4.2 U	--
Vinyl Chloride	ug/kg	3.9 U	3.8 U	4.1 U	4.2 U	3.9 U	3.8 U	3.8 U	4.1 U	4.2 U	4.4 U	--	4.2 U	--
Methylene chloride	ug/kg	3.9 U	3.8 U	4.1 U	4.2 U	3.9 U	3.8 U	3.8 U	4.1 U	4.2 U	4.4 U	--	4.2 U	--
Bromoform	ug/kg	3.9 U	3.8 U	4.1 U	4.2 U	3.9 U	3.8 U	3.8 U	4.1 U	4.2 U	4.4 U	--	4.2 U	--
Bromodichloromethane	ug/kg	3.9 U	3.8 U	4.1 U	4.2 U	3.9 U	3.8 U	3.8 U	4.1 U	4.2 U	4.4 U	--	4.2 U	--
1,1-Dichloroethane	ug/kg	3.9 U	3.8 U	4.1 U	4.2 U	3.9 U	3.8 U	3.8 U	4.1 U	4.2 U	4.4 U	--	4.2 U	--
1,1-Dichloroethene	ug/kg	3.9 U	3.8 U	4.1 U	4.2 U	3.9 U	3.8 U	3.8 U	4.1 U	4.2 U	4.4 U	--	4.2 U	--
Trichlorofluoromethane	ug/kg	3.9 U	3.8 U	4.1 U	4.2 U	3.9 U	3.8 U	3.8 U	4.1 U	4.2 U	4.4 U	--	4.2 U	--
Dichlorodifluoromethane	ug/kg	3.9 U	3.8 U	4.1 U	4.2 U	3.9 U	3.8 U	3.8 U	4.1 U	4.2 U	4.4 U	--	4.2 U	--
Freon 113a	ug/kg	4.9 U	4.7 U	5.2 U	5.3 U	4.9 U	4.7 U	4.8 U	5.1 U	5.3 UJ	5.5 UJ	--	5.2 UJ	--
Freon 113	ug/kg	3.9 U	3.8 U	4.1 U	4.2 U	3.9 U	3.8 U	3.8 U	4.1 U	4.2 U	4.4 U	--	4.2 U	--
1,2-Dichloropropane	ug/kg	3.9 U	3.8 U	4.1 U	4.2 U	3.9 U	3.8 U	3.8 U	4.1 U	4.2 U	4.4 U	--	4.2 U	--
2-Butanone	ug/kg	7.9 U	7.6 U	2.5 J	8.5 U	7.8 U	7.5 U	11	5.1 J	8.4 U	8.9 U	--	8.4 U	--
1,1,2-Trichloroethane	ug/kg	3.9 U	3.8 U	4.1 U	4.2 U	3.9 U	3.8 U	3.8 U	4.1 U	4.2 U	4.4 U	--	4.2 U	--
Trichloroethene	ug/kg	3.9 U	3.8 U	4.1 U	4.2 U	3.9 U	3.8 U	3.8 U	4.1 U	4.2 U	4.4 U	--	4.2 U	--
1,1,2,2-Tetrachloroethane	ug/kg	3.9 U	3.8 U	4.1 U	4.2 U	3.9 U	3.8 U	3.8 U	4.1 U	4.2 U	4.4 U	--	4.2 U	--
Chlorotrifluoroethene	ug/kg	4.9 U	4.7 U	5.2 UJ	5.3 UJ	4.9 UJ	4.7 UJ	4.8 UJ	5.1 UJ	5.3 U	5.5 U	--	5.2 U	--
1,2,3-Trichlorobenzene	ug/kg	3.9 U	3.8 U	4.1 U	4.2 U	3.9 U	3.8 U	3.8 U	4.1 U	4.2 U	4.4 U	--	4.2 U	--
o-Xylene	ug/kg	3.9 U	3.8 U	4.1 U	4.2 U	3.9 U	3.8 U	3.8 U	4.1 U	4.2 U	4.4 U	--	4.2 U	--
2-Chlorotoluene	ug/kg	3.9 U	3.8 U	4.1 U	4.2 U	3.9 U	3.8 U	3.8 U	4.1 U	4.2 U	4.4 U	--	4.2 U	--
1,2,4-Trimethylbenzene	ug/kg	3.9 U	3.8 U	4.1 U	4.2 U	3.9 U	3.8 U	3.8 U	4.1 U	4.2 U	4.4 U	--	4.2 U	--
1,2-Dibromo-3-chloropropane	ug/kg	3.9 U	3.8 U	4.1 U	4.2 U	3.9 U	3.8 U	3.8 U	4.1 U	4.2 U	4.4 U	--	4.2 U	--
1,2,3-Trichloropropane	ug/kg	3.9 U	3.8 U	4.1 U	4.2 U	3.9 U	3.8 U	3.8 U	4.1 U	4.2 U	4.4 U	--	4.2 U	--
tert-Butylbenzene	ug/kg	3.9 U	3.8 U	4.1 U	4.2 U	3.9 U	3.8 U	3.8 U	4.1 U	4.2 U	4.4 U	--	4.2 U	--
Isopropylbenzene	ug/kg	3.9 U	3.8 U	4.1 U	4.2 U	3.9 U	3.8 U	3.8 U	4.1 U	0.08 J	4.4 U	--	4.2 U	--

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

Appendix A7
Volatile Organics - Validated Data
HSA-5B

	Sample Name	SL-315-SA5B-SB-3.0-4.0	SL-316-SA5B-SS-0.0-0.5	SL-316-SA5B-SB-4.5-5.5	SL-319-SA5B-SB-4.0-5.0	SL-321-SA5B-SB-3.0-4.0	SL-322-SA5B-SB-3.0-4.0	SL-323-SA5B-SB-4.0-5.0	SL-323-SA5B-SB-11.0-12.0	SL-324-SA5B-SB-4.0-5.0	SL-324-SA5B-SB-8.0-9.0	SL-326-SA5B-SB-9.0-10.0	SL-326-SA5B-SB-14.0-15.0	SL-326-SA5B-SB-18.5-19.5
	Sample Date	02/10/2011	02/08/2011	02/09/2011	02/10/2011	02/17/2011	02/17/2011	02/15/2011	02/15/2011	02/14/2011	02/14/2011	02/10/2011	02/10/2011	02/10/2011
	Lab SDG	DE080	DE078	DE079	DE080	DE084	DE084	DE082	DE082	DE081	DE081	DE080	DE080	DE080
	Start Depth	3	0	4.5	4	3	3	4	11	4	8	9	14	18.5
	End Depth	4	0.5	5.5	5	4	4	5	12	5	9	10	15	19.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
GRO (C5-C12)	mg/kg	1.2 U	--	1.2 U	1.2 U	1.1 U	1 U	1 U	1.2 U	1.1 U	1.2 U	1 U	1 U	1.2 U
EFH (C15-C20)	mg/kg	4.6	0.63 J	4	2	1.4 U	1.3 U	7 U	1.3 U	6.5 U	0.62 J	13 U	1.4 U	1.3 U
EFH (C21-C30)	mg/kg	31	10	30	14	1.4 U	1.3 U	30	3.1	27	15	71	7.1	6.9
EFH (C30-C40)	mg/kg	42	29	66	35	1.4 U	1.3 U	110	2.6	120	17	150	19	25
EFH (C8-C11)	mg/kg	1.3 U	1.3 U	2.6 U	1.3 U	1.4 U	1.3 U	7 U	1.3 U	6.5 U	1.3 U	13 U	1.4 U	1.3 U
1,4-Dichlorobenzene	ug/kg	4.4 U	--	3.8 U	4.4 U	4.3 U	4.2 U	4 U	4.4 U	4.3 U	4.1 U	4.5 U	3.9 U	4.9 U
1,2,4-Trichlorobenzene	ug/kg	4.4 U	--	3.8 U	4.4 U	4.3 U	4.2 U	4 UJ	4.4 UJ	4.3 U	4.1 U	4.5 U	3.9 U	4.9 U
1,3-Dichlorobenzene	ug/kg	4.4 U	--	3.8 U	4.4 U	4.3 U	4.2 U	4 U	4.4 U	4.3 U	4.1 U	4.5 U	3.9 U	4.9 U
Hexachlorobutadiene	ug/kg	4.4 U	--	3.8 U	4.4 U	4.3 U	4.2 U	4 U	4.4 U	4.3 U	4.1 U	4.5 U	3.9 U	4.9 U
1,2-Dichlorobenzene	ug/kg	4.4 U	--	3.8 U	4.4 U	4.3 U	4.2 U	4 U	4.4 U	4.3 U	4.1 U	4.5 U	3.9 U	4.9 U
Isopropyltoluene	ug/kg	4.4 U	--	3.8 U	4.4 U	4.3 U	4.2 U	4 U	4.4 U	4.3 U	4.1 U	4.5 U	3.9 U	4.9 U
Ethylbenzene	ug/kg	0.4 J	--	0.16 J	0.12 J	4.3 U	0.1 J	4 U	0.17 J	0.09 J	4.1 U	4.5 U	0.07 J	0.09 J
Styrene	ug/kg	4.4 U	--	3.8 U	4.4 U	4.3 U	4.2 U	4 U	4.4 U	4.3 U	4.1 U	4.5 U	3.9 U	4.9 U
cis-1,3-Dichloropropene	ug/kg	4.4 U	--	3.8 U	4.4 U	4.3 U	4.2 U	4 UJ	4.4 UJ	4.3 U	4.1 U	4.5 U	3.9 U	4.9 U
trans-1,3-Dichloropropene	ug/kg	4.4 U	--	3.8 U	4.4 U	4.3 U	4.2 U	4 U	4.4 U	4.3 U	4.1 U	4.5 U	3.9 U	4.9 U
N-Propylbenzene	ug/kg	4.4 U	--	3.8 U	4.4 U	4.3 U	4.2 U	4 U	4.4 U	4.3 U	4.1 U	4.5 U	3.9 U	4.9 U
N-Butylbenzene	ug/kg	4.4 U	--	3.8 U	4.4 U	4.3 U	4.2 U	4 U	4.4 U	4.3 U	4.1 U	4.5 U	3.9 U	4.9 U
4-Chlorotoluene	ug/kg	4.4 U	--	3.8 U	4.4 U	4.3 U	4.2 U	4 U	4.4 U	4.3 U	4.1 U	4.5 U	3.9 U	4.9 U
1,2-Dibromoethane	ug/kg	4.4 U	--	3.8 U	4.4 U	4.3 U	4.2 U	4 U	4.4 U	4.3 U	4.1 U	4.5 U	3.9 U	4.9 U
1,2-Dichloroethane	ug/kg	4.4 U	--	3.8 U	4.4 U	4.3 U	4.2 U	4 U	4.4 U	4.3 U	4.1 U	4.5 U	3.9 U	4.9 U
4-Methyl-2-Pentanone	ug/kg	8.7 U	--	7.7 U	8.9 U	8.6 U	8.4 U	8.1 U	8.7 U	8.6 U	8.1 U	9.1 U	7.9 U	9.8 U
1,3,5-Trimethylbenzene	ug/kg	4.4 U	--	3.8 U	4.4 U	4.3 U	4.2 U	4 U	4.4 U	4.3 U	4.1 U	4.5 U	3.9 U	4.9 U
Bromobenzene	ug/kg	4.4 U	--	3.8 U	4.4 U	4.3 U	4.2 U	4 U	4.4 U	4.3 U	4.1 U	4.5 U	3.9 U	4.9 U
Toluene	ug/kg	4.4 U	--	3.8 U	4.4 U	4.3 U	4.2 U	4 U	4.4 U	4.3 U	4.1 U	4.5 U	3.9 U	4.9 U
Chlorobenzene	ug/kg	4.4 U	--	3.8 U	4.4 U	4.3 U	4.2 U	4 U	4.4 U	4.3 U	4.1 U	4.5 U	3.9 U	4.9 U
2-Chloroethyl Vinyl Ether	ug/kg	4.4 U	--	3.8 UJ	4.4 U	4.3 U	4.2 U	4 U	4.4 U	4.3 U	4.1 U	4.5 U	3.9 U	4.9 U
1,4-Dioxane	ug/kg	15 U	--	15 U	15 U	17 U	16 U	15 U	16 U	15 U	18 U	16 U	15 U	17 U
Dibromochloromethane	ug/kg	4.4 U	--	3.8 U	4.4 U	4.3 U	4.2 U	4 U	4.4 U	4.3 U	4.1 U	4.5 U	3.9 U	4.9 U
Tetrachloroethene	ug/kg	4.4 U	--	3.8 U	4.4 U	4.3 U	4.2 U	4 U	4.4 U	4.3 U	4.1 U	4.5 U	3.9 U	4.9 U
sec-Butylbenzene	ug/kg	4.4 U	--	3.8 U	4.4 U	4.3 U	4.2 U	4 U	4.4 U	4.3 U	4.1 U	4.5 U	3.9 U	4.9 U
1,3-Dichloropropane	ug/kg	4.4 U	--	3.8 U	4.4 U	4.3 U	4.2 U	4 U	4.4 U	4.3 U	4.1 U	4.5 U	3.9 U	4.9 U
cis-1,2-Dichloroethene	ug/kg	4.4 U	--	3.8 U	4.4 U	4.3 U	4.2 U	4 U	4.4 U	4.3 U	4.1 U	4.5 U	3.9 U	4.9 U
trans-1,2-Dichloroethene	ug/kg	4.4 U	--	3.8 U	4.4 U	4.3 U	4.2 U	4 U	4.4 U	4.3 U	4.1 U	4.5 U	3.9 U	4.9 U
Methyl tert-Butyl Ether	ug/kg	4.4 U	--	3.8 U	4.4 U	4.3 U	4.2 U	4 U	4.4 U	4.3 U	4.1 U	4.5 U	3.9 U	4.9 U
m,p-Xylene	ug/kg	1.5 J	--	0.56 J	0.36 J	4.3 U	0.27 J	4 U	0.54 J	0.25 J	4.1 U	4.5 U	0.23 J	0.3 J
Carbon tetrachloride	ug/kg	4.4 U	--	3.8 U	4.4 U	4.3 U	4.2 U	4 U	4.4 U	4.3 U	4.1 U	4.5 U	3.9 U	4.9 U
1,1-Dichloropropene	ug/kg	4.4 U	--	3.8 U	4.4 U	4.3 U	4.2 U	4 U	4.4 U	4.3 U	4.1 U	4.5 U	3.9 U	4.9 U
2-Hexanone	ug/kg	8.7 U	--	7.7 UJ	8.9 U	8.6 U	8.4 U	8.1 U	8.7 U	8.6 U	8.1 U	9.1 U	7.9 U	9.8 U
2,2-Dichloropropane	ug/kg	4.4 U	--	3.8 U	4.4 U	4.3 U	4.2 U	4 U	4.4 U	4.3 U	4.1 U	4.5 U	3.9 U	4.9 U
1,1,1,2-Tetrachloroethane	ug/kg	4.4 U	--	3.8 U	4.4 U	4.3 U	4.2 U	4 U	4.4 U	4.3 U	4.1 U	4.5 U	3.9 U	4.9 U
Acetone	ug/kg	8.7 U	--	7.7 U	8.9 U	8.6 U	8.4 U	8.1 U	8.7 U	8.6 U	8.1 U	9.1 U	7.9 U	9.8 U
Chloroform	ug/kg	4.4 U	--	3.8 U	4.4 U	4.3 U	4.2 U	4 U	4.4 U	4.3 U	4.1 U	4.5 U	3.9 U	4.9 U
Benzene	ug/kg	4.4 U	--	3.8 U	4.4 U	4.3 U	4.2 U	4 U	4.4 U	4.3 U	4.1 U	4.5 U	3.9 U	4.9 U
1,1,1-Trichloroethane	ug/kg	4.4 U	--	3.8 U	4.4 U	4.3 U	4.2 U	4 U	4.4 U	4.3 U	4.1 U	4.5 U	3.9 U	4.9 U
Bromomethane	ug/kg	4.4 U	--	3.8 U	4.4 U	4.3 U	4.2 U	4 U	4.4 U	4.3 U	4.1 U	4.5 U	3.9 U	4.9 U

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

Appendix A7
Volatile Organics - Validated Data
HSA-5B

	Sample Name	SL-315-SA5B-SB-3.0-4.0	SL-316-SA5B-SS-0.0-0.5	SL-316-SA5B-SB-4.5-5.5	SL-319-SA5B-SB-4.0-5.0	SL-321-SA5B-SB-3.0-4.0	SL-322-SA5B-SB-3.0-4.0	SL-323-SA5B-SB-4.0-5.0	SL-323-SA5B-SB-11.0-12.0	SL-324-SA5B-SB-4.0-5.0	SL-324-SA5B-SB-8.0-9.0	SL-326-SA5B-SB-9.0-10.0	SL-326-SA5B-SB-14.0-15.0	SL-326-SA5B-SB-18.5-19.5
	Sample Date	02/10/2011	02/08/2011	02/09/2011	02/10/2011	02/17/2011	02/17/2011	02/15/2011	02/15/2011	02/14/2011	02/14/2011	02/10/2011	02/10/2011	02/10/2011
	Lab SDG	DE080	DE078	DE079	DE080	DE084	DE084	DE082	DE082	DE081	DE081	DE080	DE080	DE080
	Start Depth	3	0	4.5	4	3	3	4	11	4	8	9	14	18.5
	End Depth	4	0.5	5.5	5	4	4	5	12	5	9	10	15	19.5
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Chloromethane	ug/kg	4.4 U	--	3.8 U	4.4 U	4.3 U	4.2 U	4 U	4.4 U	4.3 U	4.1 U	4.5 U	3.9 U	4.9 U
Dibromomethane	ug/kg	4.4 U	--	3.8 U	4.4 U	4.3 U	4.2 U	4 U	4.4 U	4.3 U	4.1 U	4.5 U	3.9 U	4.9 U
Bromochloromethane	ug/kg	4.4 U	--	3.8 U	4.4 U	4.3 U	4.2 U	4 U	4.4 U	4.3 U	4.1 U	4.5 U	3.9 U	4.9 U
Chloroethane	ug/kg	4.4 U	--	3.8 U	4.4 U	4.3 U	4.2 U	4 U	4.4 U	4.3 U	4.1 U	4.5 U	3.9 U	4.9 U
Vinyl Chloride	ug/kg	4.4 U	--	3.8 U	4.4 U	4.3 U	4.2 U	4 U	4.4 U	4.3 U	4.1 U	4.5 U	3.9 U	4.9 U
Methylene chloride	ug/kg	4.4 U	--	3.8 U	4.4 U	4.3 U	4.2 U	4 U	4.4 U	4.3 U	4.1 U	4.5 U	3.9 U	4.9 U
Bromoform	ug/kg	4.4 U	--	3.8 U	4.4 U	4.3 U	4.2 U	4 U	4.4 U	4.3 U	4.1 U	4.5 U	3.9 U	4.9 U
Bromodichloromethane	ug/kg	4.4 U	--	3.8 U	4.4 U	4.3 U	4.2 U	4 U	4.4 U	4.3 U	4.1 U	4.5 U	3.9 U	4.9 U
1,1-Dichloroethane	ug/kg	4.4 U	--	3.8 U	4.4 U	4.3 U	4.2 U	4 U	4.4 U	4.3 U	4.1 U	4.5 U	3.9 U	4.9 U
1,1-Dichloroethene	ug/kg	4.4 U	--	3.8 U	4.4 U	4.3 U	4.2 U	4 U	4.4 U	4.3 U	4.1 U	4.5 U	3.9 U	4.9 U
Trichlorofluoromethane	ug/kg	4.4 U	--	3.8 U	4.4 U	4.3 U	4.2 U	4 U	4.4 U	4.3 U	4.1 U	4.5 U	3.9 U	4.9 U
Dichlorodifluoromethane	ug/kg	4.4 U	--	3.8 U	4.4 U	4.3 U	4.2 U	4 U	4.4 U	4.3 U	4.1 U	4.5 U	3.9 U	4.9 U
Freon 113a	ug/kg	5.4 UJ	--	4.8 UJ	5.5 UJ	5.4 U	5.3 U	5 U	5.5 U	5.4 U	5.1 U	5.7 UJ	4.9 UJ	6.1 UJ
Freon 113	ug/kg	4.4 U	--	3.8 U	4.4 U	4.3 U	4.2 U	4 U	4.4 U	4.3 U	4.1 U	4.5 U	3.9 U	4.9 U
1,2-Dichloropropane	ug/kg	4.4 U	--	3.8 U	4.4 U	4.3 U	4.2 U	4 U	4.4 U	4.3 U	4.1 U	4.5 U	3.9 U	4.9 U
2-Butanone	ug/kg	8.7 U	--	7.7 UJ	8.9 U	8.6 U	8.4 U	8.1 U	8.7 U	8.6 U	8.1 U	9.1 U	7.9 U	9.8 U
1,1,2-Trichloroethane	ug/kg	4.4 U	--	3.8 U	4.4 U	4.3 U	4.2 U	4 U	4.4 U	4.3 U	4.1 U	4.5 U	3.9 U	4.9 U
Trichloroethene	ug/kg	4.4 U	--	3.8 U	4.4 U	4.3 U	4.2 U	4 U	4.4 U	4.3 U	4.1 U	4.5 U	3.9 U	4.9 U
1,1,2,2-Tetrachloroethane	ug/kg	4.4 U	--	3.8 U	4.4 U	4.3 U	4.2 U	4 U	4.4 U	4.3 U	4.1 U	4.5 U	3.9 U	4.9 U
Chlorotrifluoroethene	ug/kg	5.4 U	--	4.8 UJ	5.5 U	5.4 U	5.3 U	5 U	5.5 U	5.4 U	5.1 U	5.7 U	4.9 U	6.1 U
1,2,3-Trichlorobenzene	ug/kg	4.4 U	--	3.8 U	4.4 U	4.3 U	4.2 U	4 U	4.4 U	4.3 U	4.1 U	4.5 U	3.9 U	4.9 U
o-Xylene	ug/kg	0.19 J	--	3.8 U	4.4 U	4.3 U	4.2 U	4 U	4.4 U	4.3 U	4.1 U	4.5 U	3.9 U	4.9 U
2-Chlorotoluene	ug/kg	4.4 U	--	3.8 U	4.4 U	4.3 U	4.2 U	4 U	4.4 U	4.3 U	4.1 U	4.5 U	3.9 U	4.9 U
1,2,4-Trimethylbenzene	ug/kg	4.4 U	--	3.8 U	4.4 U	4.3 U	4.2 U	4 U	4.4 U	4.3 U	4.1 U	4.5 U	3.9 U	4.9 U
1,2-Dibromo-3-chloropropane	ug/kg	4.4 U	--	3.8 U	4.4 U	4.3 U	4.2 U	4 U	4.4 U	4.3 U	4.1 U	4.5 U	3.9 U	4.9 U
1,2,3-Trichloropropane	ug/kg	4.4 U	--	3.8 U	4.4 U	4.3 U	4.2 U	4 U	4.4 U	4.3 U	4.1 U	4.5 U	3.9 U	4.9 U
tert-Butylbenzene	ug/kg	4.4 U	--	3.8 U	4.4 U	4.3 U	4.2 U	4 U	4.4 U	4.3 U	4.1 U	4.5 U	3.9 U	4.9 U
Isopropylbenzene	ug/kg	4.4 U	--	0.09 J	4.4 U	4.3 U	4.2 U	4 U	4.4 U	4.3 U	4.1 U	4.5 U	3.9 U	4.9 U

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

Appendix A7
Volatile Organics - Validated Data
HSA-5B

	Sample Name	SL-327-SA5B-SB-4.0-5.0	SL-328-SA5B-SB-3.5-4.5	SL-329-SA5B-SS-0.0-0.5	SL-329-SA5B-SB-4.0-5.0	SL-330-SA5B-SS-0.0-0.5	SL-330-SA5B-SB-4.0-5.0	SL-331-SA5B-SS-0.0-0.5	SL-331-SA5B-SB-3.0-4.0	SL-332-SA5B-SB-4.0-5.0	SL-333-SA5B-SB-4.0-5.0	SL-335-SA5B-SB-2.0-3.0	SL-336-SA5B-SB-4.0-5.0	SL-337-SA5B-SB-3.0-4.0
	Sample Date	02/15/2011	02/09/2011	02/10/2011	02/15/2011	02/10/2011	02/15/2011	02/10/2011	02/17/2011	02/16/2011	02/16/2011	02/16/2011	02/17/2011	02/17/2011
	Lab SDG	DE082	DE079	DE080	DE082	DE080	DE082	DE080	DE084	DE083	DE083	DE083	DE084	DE084
	Start Depth	4	3.5	0	4	0	4	0	3	4	4	2	4	3
	End Depth	5	4.5	0.5	5	0.5	5	0.5	4	5	5	3	5	4
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
GRO (C5-C12)	mg/kg	1.1 U	1 U	--	0.9 U	--	0.9 U	--	1 U	1 U	1 U	1 U	0.9 U	0.9 U
EFH (C15-C20)	mg/kg	2.6 U	4.3	6.4 U	1.3 UJ	2.6 J	0.64 J	1.3 U	1.3 U	66 U	14 U	1.3 U	1.4 U	1.4 U
EFH (C21-C30)	mg/kg	16	27	41	2.4 J	62	1.5	7.7	1.3 U	420	37	1.3 U	2.3	0.94 J
EFH (C30-C40)	mg/kg	54	73	180	4.7 J	240	0.59 J	27	0.48 J	1100	100	1.3 U	6.6	4.3
EFH (C8-C11)	mg/kg	2.6 U	2.6 U	6.4 U	1.3 U	6.2 U	1.3 U	1.3 U	1.3 U	66 U	14 U	1.3 U	0.71 J	0.58 J
1,4-Dichlorobenzene	ug/kg	3.9 U	3.9 U	--	4.1 U	--	3.6 U	--	4.6 U	3.7 U	3.9 U	4.2 U	4.6 U	4.1 U
1,2,4-Trichlorobenzene	ug/kg	3.9 UJ	3.9 U	--	4.1 UJ	--	3.6 UJ	--	4.6 U	3.7 UJ	3.9 UJ	4.2 UJ	4.6 U	4.1 U
1,3-Dichlorobenzene	ug/kg	3.9 U	3.9 U	--	4.1 U	--	3.6 U	--	4.6 U	3.7 U	3.9 U	4.2 U	4.6 U	4.1 U
Hexachlorobutadiene	ug/kg	3.9 U	3.9 U	--	4.1 U	--	3.6 U	--	4.6 U	3.7 U	3.9 U	4.2 U	4.6 U	4.1 U
1,2-Dichlorobenzene	ug/kg	3.9 U	3.9 U	--	4.1 U	--	3.6 U	--	4.6 U	3.7 U	3.9 U	4.2 U	4.6 U	4.1 U
Isopropyltoluene	ug/kg	3.9 U	3.9 U	--	4.1 U	--	3.6 U	--	4.6 U	3.7 U	3.9 U	4.2 U	4.6 U	4.1 U
Ethylbenzene	ug/kg	3.9 U	0.07 J	--	0.09 J	--	0.1 J	--	0.17 J	3.7 U	3.9 U	4.2 U	0.1 J	4.1 U
Styrene	ug/kg	3.9 U	3.9 U	--	4.1 U	--	3.6 U	--	4.6 U	3.7 U	3.9 U	4.2 U	4.6 U	4.1 U
cis-1,3-Dichloropropene	ug/kg	3.9 UJ	3.9 U	--	4.1 UJ	--	3.6 UJ	--	4.6 U	3.7 UJ	3.9 UJ	4.2 UJ	4.6 U	4.1 U
trans-1,3-Dichloropropene	ug/kg	3.9 U	3.9 U	--	4.1 U	--	3.6 U	--	4.6 U	3.7 U	3.9 U	4.2 U	4.6 U	4.1 U
N-Propylbenzene	ug/kg	3.9 U	3.9 U	--	4.1 U	--	3.6 U	--	4.6 U	3.7 U	3.9 U	4.2 U	4.6 U	4.1 U
N-Butylbenzene	ug/kg	3.9 U	3.9 U	--	4.1 U	--	3.6 U	--	4.6 U	3.7 U	3.9 U	4.2 U	4.6 U	4.1 U
4-Chlorotoluene	ug/kg	3.9 U	3.9 U	--	4.1 U	--	3.6 U	--	4.6 U	3.7 U	3.9 U	4.2 U	4.6 U	4.1 U
1,2-Dibromoethane	ug/kg	3.9 U	3.9 U	--	4.1 U	--	3.6 U	--	4.6 U	3.7 U	3.9 U	4.2 U	4.6 U	4.1 U
1,2-Dichloroethane	ug/kg	3.9 U	3.9 U	--	4.1 U	--	3.6 U	--	4.6 U	3.7 U	3.9 U	4.2 U	4.6 U	4.1 U
4-Methyl-2-Pentanone	ug/kg	7.8 U	7.8 U	--	8.1 U	--	7.3 U	--	9.3 U	7.3 U	7.9 U	8.4 U	9.3 U	10
1,3,5-Trimethylbenzene	ug/kg	3.9 U	3.9 U	--	4.1 U	--	3.6 U	--	4.6 U	3.7 U	3.9 U	4.2 U	4.6 U	4.1 U
Bromobenzene	ug/kg	3.9 U	3.9 U	--	4.1 U	--	3.6 U	--	4.6 U	3.7 U	3.9 U	4.2 U	4.6 U	4.1 U
Toluene	ug/kg	3.9 U	3.9 U	--	4.1 UJ	--	3.6 U	--	4.6 U	3.7 U	3.9 U	4.2 U	4.6 U	4.1 U
Chlorobenzene	ug/kg	3.9 U	3.9 U	--	4.1 U	--	3.6 U	--	4.6 U	3.7 U	3.9 U	4.2 U	4.6 U	4.1 U
2-Chloroethyl Vinyl Ether	ug/kg	3.9 U	3.9 UJ	--	4.1 U	--	3.6 U	--	4.6 U	3.7 U	3.9 U	4.2 U	4.6 U	4.1 U
1,4-Dioxane	ug/kg	14 U	16 U	--	17 U	--	15 U	--	16 U	15 U	14 U	16 U	22 U	14 U
Dibromochloromethane	ug/kg	3.9 U	3.9 U	--	4.1 U	--	3.6 U	--	4.6 U	3.7 U	3.9 U	4.2 U	4.6 U	4.1 U
Tetrachloroethene	ug/kg	3.9 U	3.9 U	--	4.1 U	--	3.6 U	--	4.6 U	3.7 U	3.9 U	4.2 U	4.6 U	4.1 U
sec-Butylbenzene	ug/kg	3.9 U	3.9 U	--	4.1 U	--	3.6 U	--	4.6 U	3.7 U	3.9 U	4.2 U	4.6 U	4.1 U
1,3-Dichloropropane	ug/kg	3.9 U	3.9 U	--	4.1 U	--	3.6 U	--	4.6 U	3.7 U	3.9 U	4.2 U	4.6 U	4.1 U
cis-1,2-Dichloroethene	ug/kg	3.9 U	3.9 U	--	4.1 U	--	3.6 U	--	4.6 U	3.7 U	3.9 U	4.2 U	4.6 U	4.1 U
trans-1,2-Dichloroethene	ug/kg	3.9 U	3.9 U	--	4.1 U	--	3.6 U	--	4.6 U	3.7 U	3.9 U	4.2 U	4.6 U	4.1 U
Methyl tert-Butyl Ether	ug/kg	3.9 U	3.9 U	--	4.1 U	--	3.6 U	--	4.6 U	3.7 U	3.9 U	4.2 U	4.6 U	4.1 U
m,p-Xylene	ug/kg	3.9 U	0.22 J	--	0.3 J	--	0.28 J	--	0.56 J	3.7 U	3.9 U	4.2 U	0.3 J	4.1 U
Carbon tetrachloride	ug/kg	3.9 U	3.9 U	--	4.1 U	--	3.6 U	--	4.6 U	3.7 U	3.9 U	4.2 U	4.6 U	4.1 U
1,1-Dichloropropene	ug/kg	3.9 U	3.9 U	--	4.1 U	--	3.6 U	--	4.6 U	3.7 U	3.9 U	4.2 U	4.6 U	4.1 U
2-Hexanone	ug/kg	7.8 U	7.8 UJ	--	8.1 U	--	7.3 U	--	9.3 U	7.3 U	7.9 U	8.4 U	9.3 U	8.3 U
2,2-Dichloropropane	ug/kg	3.9 U	3.9 U	--	4.1 U	--	3.6 U	--	4.6 U	3.7 U	3.9 U	4.2 U	4.6 U	4.1 U
1,1,1,2-Tetrachloroethane	ug/kg	3.9 U	3.9 U	--	4.1 U	--	3.6 U	--	4.6 U	3.7 U	3.9 U	4.2 U	4.6 U	4.1 U
Acetone	ug/kg	7.8 U	7.8 U	--	8.1 U	--	7.3 U	--	9.3 U	7.3 U	7.9 U	8.4 U	9.3 U	8.3 U
Chloroform	ug/kg	3.9 U	3.9 U	--	4.1 U	--	3.6 U	--	4.6 U	3.7 U	3.9 U	4.2 U	4.6 U	0.14 J
Benzene	ug/kg	3.9 U	3.9 U	--	4.1 U	--	3.6 U	--	0.18 J	3.7 U	3.9 U	4.2 U	4.6 U	4.1 U
1,1,1-Trichloroethane	ug/kg	3.9 U	3.9 U	--	4.1 U	--	3.6 U	--	4.6 U	3.7 U	3.9 U	4.2 U	4.6 U	4.1 U
Bromomethane	ug/kg	3.9 U	3.9 U	--	4.1 U	--	3.6 U	--	4.6 U	3.7 U	3.9 U	4.2 U	4.6 U	4.1 U

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

Appendix A7
Volatile Organics - Validated Data
HSA-5B

	Sample Name	SL-327-SA5B-SB-4.0-5.0	SL-328-SA5B-SB-3.5-4.5	SL-329-SA5B-SS-0.0-0.5	SL-329-SA5B-SB-4.0-5.0	SL-330-SA5B-SS-0.0-0.5	SL-330-SA5B-SB-4.0-5.0	SL-331-SA5B-SS-0.0-0.5	SL-331-SA5B-SB-3.0-4.0	SL-332-SA5B-SB-4.0-5.0	SL-333-SA5B-SB-4.0-5.0	SL-335-SA5B-SB-2.0-3.0	SL-336-SA5B-SB-4.0-5.0	SL-337-SA5B-SB-3.0-4.0
	Sample Date	02/15/2011	02/09/2011	02/10/2011	02/15/2011	02/10/2011	02/15/2011	02/10/2011	02/17/2011	02/16/2011	02/16/2011	02/16/2011	02/17/2011	02/17/2011
	Lab SDG	DE082	DE079	DE080	DE082	DE080	DE082	DE080	DE084	DE083	DE083	DE083	DE084	DE084
	Start Depth	4	3.5	0	4	0	4	0	3	4	4	2	4	3
	End Depth	5	4.5	0.5	5	0.5	5	0.5	4	5	5	3	5	4
Chemical Name	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Chloromethane	ug/kg	3.9 U	3.9 U	--	4.1 U	--	3.6 U	--	4.6 U	3.7 U	3.9 U	4.2 U	4.6 U	4.1 U
Dibromomethane	ug/kg	3.9 U	3.9 U	--	4.1 U	--	3.6 U	--	4.6 U	3.7 U	3.9 U	4.2 U	4.6 U	4.1 U
Bromochloromethane	ug/kg	3.9 U	3.9 U	--	4.1 U	--	3.6 U	--	4.6 U	3.7 U	3.9 U	4.2 U	4.6 U	4.1 U
Chloroethane	ug/kg	3.9 U	3.9 U	--	4.1 U	--	3.6 U	--	4.6 U	3.7 U	3.9 U	4.2 U	4.6 U	4.1 U
Vinyl Chloride	ug/kg	3.9 U	3.9 U	--	4.1 U	--	3.6 U	--	4.6 U	3.7 U	3.9 U	4.2 U	4.6 U	4.1 U
Methylene chloride	ug/kg	3.9 U	3.9 U	--	4.1 U	--	3.6 U	--	4.6 U	3.7 U	3.9 U	4.2 U	4.6 U	9.4
Bromoform	ug/kg	3.9 U	3.9 U	--	4.1 U	--	3.6 U	--	4.6 U	3.7 U	3.9 U	4.2 U	4.6 U	4.1 U
Bromodichloromethane	ug/kg	3.9 U	3.9 U	--	4.1 U	--	3.6 U	--	4.6 U	3.7 U	3.9 U	4.2 U	4.6 U	4.1 U
1,1-Dichloroethane	ug/kg	3.9 U	3.9 U	--	4.1 U	--	3.6 U	--	4.6 U	3.7 U	3.9 U	4.2 U	4.6 U	4.1 U
1,1-Dichloroethene	ug/kg	3.9 U	3.9 U	--	4.1 U	--	3.6 U	--	4.6 U	3.7 U	3.9 U	4.2 U	4.6 U	4.1 U
Trichlorofluoromethane	ug/kg	3.9 U	3.9 U	--	4.1 U	--	3.6 U	--	4.6 U	3.7 U	3.9 U	4.2 U	4.6 U	4.1 U
Dichlorodifluoromethane	ug/kg	3.9 U	3.9 U	--	4.1 U	--	3.6 U	--	4.6 U	3.7 U	3.9 U	4.2 U	4.6 U	4.1 U
Freon 113a	ug/kg	4.9 U	4.8 UJ	--	5.1 U	--	4.6 U	--	5.8 U	4.6 U	4.9 U	5.3 U	5.8 U	5.2 U
Freon 113	ug/kg	3.9 U	3.9 U	--	4.1 U	--	3.6 U	--	4.6 U	3.7 U	3.9 U	4.2 U	4.6 U	4.1 U
1,2-Dichloropropane	ug/kg	3.9 U	3.9 U	--	4.1 U	--	3.6 U	--	4.6 U	3.7 U	3.9 U	4.2 U	4.6 U	4.1 U
2-Butanone	ug/kg	7.8 U	7.8 UJ	--	8.1 U	--	7.3 U	--	9.3 U	7.3 U	7.9 U	8.4 U	9.3 U	8.3 U
1,1,2-Trichloroethane	ug/kg	3.9 U	3.9 U	--	4.1 U	--	3.6 U	--	4.6 U	3.7 U	3.9 U	4.2 U	4.6 U	4.1 U
Trichloroethene	ug/kg	3.9 U	3.9 U	--	4.1 U	--	3.6 U	--	4.6 U	3.7 U	3.9 U	4.2 U	4.6 U	4.1 U
1,1,2,2-Tetrachloroethane	ug/kg	3.9 U	3.9 U	--	4.1 U	--	3.6 U	--	4.6 U	3.7 U	3.9 U	4.2 U	4.6 U	4.1 U
Chlorotrifluoroethene	ug/kg	4.9 U	4.8 UJ	--	5.1 U	--	4.6 U	--	5.8 U	4.6 U	4.9 U	5.3 U	5.8 U	5.2 U
1,2,3-Trichlorobenzene	ug/kg	3.9 U	3.9 U	--	4.1 U	--	3.6 U	--	4.6 U	3.7 U	3.9 U	4.2 U	4.6 U	4.1 U
o-Xylene	ug/kg	3.9 U	3.9 U	--	4.1 U	--	3.6 U	--	4.6 U	3.7 U	3.9 U	4.2 U	4.6 U	4.1 U
2-Chlorotoluene	ug/kg	3.9 U	3.9 U	--	4.1 U	--	3.6 U	--	4.6 U	3.7 U	3.9 U	4.2 U	4.6 U	4.1 U
1,2,4-Trimethylbenzene	ug/kg	3.9 U	3.9 U	--	4.1 U	--	3.6 U	--	4.6 U	3.7 U	3.9 U	4.2 U	4.6 U	4.1 U
1,2-Dibromo-3-chloropropane	ug/kg	3.9 U	3.9 U	--	4.1 U	--	3.6 U	--	4.6 U	3.7 U	3.9 U	4.2 U	4.6 U	4.1 U
1,2,3-Trichloropropane	ug/kg	3.9 U	3.9 U	--	4.1 U	--	3.6 U	--	4.6 U	3.7 U	3.9 U	4.2 U	4.6 U	4.1 U
tert-Butylbenzene	ug/kg	3.9 U	3.9 U	--	4.1 U	--	3.6 U	--	4.6 U	3.7 U	3.9 U	4.2 U	4.6 U	4.1 U
Isopropylbenzene	ug/kg	3.9 U	3.9 U	--	4.1 U	--	3.6 U	--	4.6 U	3.7 U	3.9 U	4.2 U	4.6 U	4.1 U

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