

Appendix D

Chemical Analysis of BFRA Data



MICHIGAN DEPARTMENT OF NATURAL RESOURCES AND ENVIRONMENT
ENVIRONMENTAL LABORATORY

P.O. Box 30270
Lansing, MI 48909
TEL: (517) 335-9800
FAX: (517) 335-9600

Division: RD
Report to: TERESA DUCSAY
MDEQ-RD-LANSING
CONSTITUTION HALL
525 W. ALLEGAN, LANSING, MI 48909

Lab Work Order #: 10400186
Work Site ID: LB041003
Site Name: TREE FARM
Received: 04/28/2011
Reported: 06/08/2011
Collected By: TERESA DUCASY

Total: \$15,648.50

Samples Received :

No:	Sample ID	Sample Description	Matrix:	Collection Date
01	AB73249	SB-01	SEDIMENT	04/27/2011
02	AB73250	SB-02	SEDIMENT	04/27/2011
03	AB73251	SB-03	SEDIMENT	04/27/2011
04	AB73252	SB-03 MS	SEDIMENT	04/27/2011
05	AB73253	SB-03 MSD	SEDIMENT	04/27/2011
06	AB73254	SB-04	SEDIMENT	04/27/2011
07	AB73255	SB-05	SEDIMENT	04/26/2011
08	AB73256	SB-06	SEDIMENT	04/27/2011
09	AB73257	SB-07	SEDIMENT	04/27/2011
10	AB73258	SB-08	SEDIMENT	04/26/2011
11	AB73259	SB-09	SEDIMENT	04/26/2011
12	AB73260	SB-10	SEDIMENT	04/27/2011
13	AB73261	SB-11	SEDIMENT	04/27/2011
14	AB73262	SB-12	SEDIMENT	04/27/2011
15	AB73263	SB-13	SEDIMENT	04/27/2011
16	AB73264	SB-14	SEDIMENT	04/27/2011
17	AB73265	SB-15	SEDIMENT	04/27/2011

I certify that the analysis performed by the MDEQ Environmental Laboratory are accurate and that the laboratory tests were conducted by methods approved by the U.S. Environmental Protection Agency and other appropriate regulatory agencies.

George L. Krisztian,
Acting Laboratory Director



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P.O. Box 30270
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TEL: (517) 335-9800
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Sample Number: AB73249 SB-01

Pesticides and PCBs

Analytical Method: 8081,8082
Extraction Method: 3545

Date Tested: 05/11/2011
Extraction Date: 05/03/2011

Analyst: MF
Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
SURROGATE	#Decachlorobiphenyl#	65.6			
SURROGATE	#Tetrachloro-m-xylene#	67.6			
72-54-8	4,4'-DDD	Not Detected	21		1.0
72-55-9	4,4'-DDE	Not Detected	21		1.0
50-29-3	4,4'-DDT	Not Detected	21		1.0
319-84-6	a-BHC	Not Detected	21		1.0
5103-71-9	a-Chlordane	Not Detected	21		1.0
309-00-2	Aldrin	Not Detected	21		1.0
12674-11-2	Aroclor 1016	Not Detected	110		1.0
11104-28-2	Aroclor 1221	Not Detected	110		1.0
11141-16-5	Aroclor 1232	Not Detected	110		1.0
53469-21-9	Aroclor 1242	Not Detected	110		1.0
12672-29-6	Aroclor 1248	Not Detected	110		1.0
11097-69-1	Aroclor 1254	Not Detected	110		1.0
11096-82-5	Aroclor 1260	Not Detected	110		1.0
37324-23-5	Aroclor 1267	Not Detected	110		1.0
11100-14-4	Aroclor 1268	Not Detected	110		1.0
319-85-7	b-BHC	Not Detected	21		1.0
319-86-8	d-BHC	Not Detected	21		1.0
60-57-1	Dieldrin	Not Detected	21		1.0
959-98-8	Endosulfan I	Not Detected	21		1.0
33213-65-9	Endosulfan II	Not Detected	21		1.0
1031-07-8	Endosulfan sulfate	Not Detected	21		1.0
72-20-8	Endrin	Not Detected	21		1.0
7421-93-4	Endrin aldehyde	Not Detected	21		1.0
53494-70-5	Endrin ketone	Not Detected	21		1.0
58-89-9	g-BHC (Lindane)	Not Detected	21		1.0
5103-74-2	g-Chlordane	Not Detected	21		1.0
76-44-8	Heptachlor	Not Detected	21		1.0
1024-57-3	Heptachlor epoxide	Not Detected	21		1.0
87-82-1	Hexabromobenzene	Not Detected	110		1.0
72-43-5	Methoxychlor	Not Detected	53		1.0
2385-85-5	Mirex	Not Detected	53		1.0
59080-40-9	PBB (BP-6)	Not Detected	270		1.0
8001-35-2	Toxaphene	Not Detected	180		1.0

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

Laboratory Contacts
Inorganic Unit Mgr: Sandy Gregg
Organic Unit Mgr: Carol Smith
Systems Mgmt Unit: George Krisztian



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Sample Number: AB73249 SB-01

Base Neutral Acid Compounds

Analytical Method: 8270 Date Tested: 05/11/2011 Analyst: SMH
Extraction Method: 3545 Extraction Date: 05/02/2011 Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
SURROGATE	#2-Fluorobiphenyl#	64.3			
SURROGATE	#2,4,6-Tribromophenol#	54.6			
SURROGATE	#2-Fluorophenol#	65.2			
SURROGATE	#Nitrobenzene - D5#	69.7			
SURROGATE	#Phenol - D6#	71.3			
SURROGATE	#p-Terphenyl-d14#	80.0			
120-82-1	1,2,4-Trichlorobenzene	Not Detected	420		2.0
95-95-4	2,4,5-Trichlorophenol	Not Detected	700		2.0
88-06-2	2,4,6-Trichlorophenol	Not Detected	700		2.0
120-83-2	2,4-Dichlorophenol	Not Detected	700		2.0
105-67-9	2,4-Dimethylphenol	Not Detected	700		2.0
51-28-5	2,4-Dinitrophenol	Not Detected	3600	Z	2.0
121-14-2	2,4-Dinitrotoluene	Not Detected	530		2.0
606-20-2	2,6-Dinitrotoluene	Not Detected	530		2.0
91-58-7	2-Chloronaphthalene	Not Detected	420		2.0
95-57-8	2-Chlorophenol	Not Detected	700		2.0
534-52-1	2-Methyl-4,6-dinitrophenol	Not Detected	3600	Z	2.0
91-57-6	2-Methylnaphthalene	Not Detected	530		2.0
95-48-7	2-Methylphenol (o-Cresol)	Not Detected	700		2.0
88-74-4	2-Nitroaniline	Not Detected	1100		2.0
88-75-5	2-Nitrophenol	Not Detected	700		2.0
108394,106445	3 & 4-Methylphenol	Not Detected	1400		2.0
99-09-2	3-Nitroaniline	Not Detected	1100		2.0
101-55-3	4-Bromophenyl phenyl ether	Not Detected	420		2.0
59-50-7	4-Chloro-3-methyl-phenol	Not Detected	420		2.0
7005-72-3	4-Chlorodiphenylether	Not Detected	210		2.0
100-01-6	4-Nitroaniline	Not Detected	1100	S	2.0
100-02-7	4-Nitrophenol	Not Detected	3600	7Z	2.0
83-32-9	Acenaphthene	Not Detected	210		2.0
208-96-8	Acenaphthylene	Not Detected	210		2.0
120-12-7	Anthracene	Not Detected	210		2.0
103-33-3	Azobenzene	Not Detected	420		2.0
56-55-3	Benzo[a]anthracene	Not Detected	210		2.0
50-32-8	Benzo[a]pyrene	Not Detected	420		2.0
205-99-2	Benzo[b]fluoranthene	Not Detected	420		2.0
191-24-2	Benzo[g,h,i]perylene	Not Detected	420		2.0
207-08-9	Benzo[k]fluoranthene	Not Detected	420		2.0
100-51-6	Benzyl Alcohol	Not Detected	5300		2.0
111-91-1	Bis(2-chloroethoxy)methane	Not Detected	420		2.0
111-44-4	Bis(2-chloroethyl)ether	Not Detected	210		2.0

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Sample Number: AB73249 SB-01

Base Neutral Acid Compounds

Analytical Method: 8270 Date Tested: 05/11/2011 Analyst: SMH
Extraction Method: 3545 Extraction Date: 05/02/2011 Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
108-60-1	Bis(2-chloroisopropyl)ether	Not Detected	210		2.0
117-81-7	Bis(2-ethylhexyl)phthalate	Not Detected	530		2.0
85-68-7	Butyl benzyl phthalate	Not Detected	530		2.0
86-74-8	Carbazole	Not Detected	530		2.0
218-01-9	Chrysene	Not Detected	210		2.0
53-70-3	Dibenz[a,h]anthracene	Not Detected	420		2.0
132-64-9	Dibenzofuran	Not Detected	530		2.0
84-66-2	Diethylphthalate	Not Detected	530		2.0
131-11-3	Dimethyl phthalate	Not Detected	530		2.0
84-74-2	Di-n-butyl phthalate	Not Detected	530		2.0
117-84-0	Di-n-octyl phthalate	Not Detected	530		2.0
206-44-0	Fluoranthene	Not Detected	210		2.0
86-73-7	Fluorene	Not Detected	210		2.0
118-74-1	Hexachlorobenzene	Not Detected	420		2.0
87-68-3	Hexachlorobutadiene	Not Detected	210	Z	2.0
77-47-4	Hexachlorocyclopentadiene	Not Detected	2100	Z	2.0
67-72-1	Hexachloroethane	Not Detected	210		2.0
193-39-5	Indeno(1,2,3-c,d)pyrene	Not Detected	420		2.0
78-59-1	Isophorone	Not Detected	210		2.0
91-20-3	Naphthalene	Not Detected	210		2.0
98-95-3	Nitrobenzene	Not Detected	420		2.0
67-75-9	N-Nitrosodimethylamine	Not Detected	530		2.0
621-64-7	N-Nitrosodipropylamine	Not Detected	420		2.0
86-30-6	N-Nitrosodiphenylamine	Not Detected	420		2.0
87-86-5	Pentachlorophenol	Not Detected	3600	Z=800	2.0
85-01-8	Phenanthrene	Not Detected	210		2.0
108-95-2	Phenol	Not Detected	700		2.0
129-00-0	Pyrene	Not Detected	210		2.0

RLs raised due to matrix.

Volatile Compounds

Analytical Method: 8260 Date Tested: 05/06/2011 Analyst: SJR
Extraction Method: 5035 Extraction Date: 05/02/2011 Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
	##Weight of sample(grams)	9.06			
SURROGATE	#Bromofluorobenzene#	110			
SURROGATE	#Dibromofluoromethane#	127			
SURROGATE	#Toluene-d8#	129			

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Sample Number: AB73249 SB-01

Volatile Compounds

Analytical Method: 8260
Extraction Method: 5035

Date Tested: 05/06/2011
Extraction Date: 05/02/2011

Analyst: SJR
Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
630-20-6	1,1,1,2-Tetrachloroethane	Not Detected	62		50
71-55-6	1,1,1-Trichloroethane	Not Detected	62		50
79-34-5	1,1,2,2-Tetrachloroethane	Not Detected	62		50
79-00-5	1,1,2-Trichloroethane	Not Detected	62		50
75-34-3	1,1-Dichloroethane	Not Detected	62		50
75-35-4	1,1-Dichloroethylene	Not Detected	62		50
87-61-6	1,2,3-Trichlorobenzene	Not Detected	310	7	50
96-18-4	1,2,3-Trichloropropane	Not Detected	62		50
526-73-8	1,2,3-Trimethylbenzene	Not Detected	62		50
120-82-1	1,2,4-Trichlorobenzene	Not Detected	310		50
95-63-6	1,2,4-Trimethylbenzene	Not Detected	62		50
96-12-8	1,2-Dibromo-3-chloropropane	Not Detected	310		50
106-93-4	1,2-Dibromoethane	Not Detected	62	Z	50
95-50-1	1,2-Dichlorobenzene	Not Detected	62		50
107-06-2	1,2-Dichloroethane	Not Detected	62		50
78-87-5	1,2-Dichloropropane	Not Detected	62		50
108-67-8	1,3,5-Trimethylbenzene	Not Detected	62		50
541-73-1	1,3-Dichlorobenzene	Not Detected	62		50
106-46-7	1,4-Dichlorobenzene	Not Detected	62		50
78-93-3	2-Butanone (MEK)	Not Detected	310		50
591-78-6	2-Hexanone	Not Detected	310		50
91-57-6	2-Methylnaphthalene	Not Detected	310	X-7	50
67-64-1	2-Propanone (acetone)	Not Detected	1200	7	50
108-10-1	4-Methyl-2-pentanone (MIBK)	Not Detected	310		50
107-13-1	Acrylonitrile	Not Detected	310	Z	50
71-43-2	Benzene	Not Detected	62		50
108-86-1	Bromobenzene	Not Detected	62		50
74-97-5	Bromochloromethane	Not Detected	62		50
75-27-4	Bromodichloromethane	Not Detected	62		50
75-25-2	Bromoform	Not Detected	62		50
74-83-9	Bromomethane	Not Detected	250	5	50
75-15-0	Carbon disulfide	Not Detected	62		50
56-23-5	Carbon tetrachloride	Not Detected	62		50
108-90-7	Chlorobenzene	Not Detected	62		50
75-00-3	Chloroethane	Not Detected	310		50
67-66-3	Chloroform	Not Detected	62		50
74-87-3	Chloromethane	Not Detected	310		50
156-59-2	cis-1,2-Dichloroethylene	Not Detected	62		50
10061-01-5	cis-1,3-Dichloropropylene	Not Detected	62		50
110-82-7	Cyclohexane	Not Detected	310		50

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Sample Number: AB73249 SB-01

Volatile Compounds

Analytical Method: 8260
Extraction Method: 5035

Date Tested: 05/06/2011 Analyst: SJR
Extraction Date: 05/02/2011 Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
124-48-1	Dibromochloromethane	Not Detected	62		50
74-95-3	Dibromomethane	Not Detected	62		50
75-71-8	Dichlorodifluoromethane	Not Detected	310		50
60-29-7	Diethyl ether	Not Detected	250		50
108-20-3	Diisopropyl Ether	Not Detected	310		50
100-41-4	Ethylbenzene	Not Detected	62		50
637-92-3	Ethyltertiarybutylether	Not Detected	310		50
67-72-1	Hexachloroethane	Not Detected	310		50
98-82-8	Isopropylbenzene	Not Detected	62		50
108383,106423	m & p - Xylene	Not Detected	120		50
74-88-4	Methyl iodide	Not Detected	62		50
75-09-2	Methylene chloride	Not Detected	120		50
1634-04-4	Methyltertiarybutylether	Not Detected	62		50
91-20-3	Naphthalene	Not Detected	310	X 7	50
104-51-8	n-Butylbenzene	Not Detected	62		50
103-65-1	n-Propylbenzene	Not Detected	62		50
95-47-6	o-Xylene	Not Detected	62		50
99-87-6	p-Isopropyl toluene	Not Detected	62		50
135-98-8	sec-Butylbenzene	Not Detected	62		50
100-42-5	Styrene	Not Detected	62		50
98-06-6	tert-Butylbenzene	Not Detected	62		50
75-65-0	tertiary Butyl Alcohol	Not Detected	3100		50
994-05-8	tertiary Amyl methyl ether	Not Detected	310		50
127-18-4	Tetrachloroethylene	Not Detected	62		50
109-99-9	Tetrahydrofuran	Not Detected	310		50
108-88-3	Toluene	Not Detected	62		50
156-60-5	trans-1,2-Dichloroethylene	Not Detected	62		50
10061-02-6	trans-1,3-Dichloropropylene	Not Detected	62		50
110-57-6	trans-1,4-Dichloro-2-butene	Not Detected	310	Z	50
79-01-6	Trichloroethylene	Not Detected	62		50
75-69-4	Trichlorofluoromethane	Not Detected	62		50
75-01-4	Vinyl chloride	Not Detected	62	Z	50

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Sample Number: AB73249 SB-01

CAS#	Analyte Name	Result	Unit	RL	Qualifier	Date Tested	Method	Analyst
57-12-5	Cyanide - Sediment	ND	mg/Kg dry	0.1		05/17/2011	ASTM D 751	MB
	Cyanide-Extraction	Completed				05/10/2011	9013	MB
	Digest Mercury - Sediment	Completed				05/11/2011	7471	TS
7439-97-6	Mercury - Sediment	ND	mg/Kg dry	0.05		05/12/2011	7471	TS
7440-36-0	Antimony - Sediment	ND	mg/Kg dry	0.3		05/21/2011	6020	KS
7440-38-2	Arsenic - Sediment	1.7	mg/Kg dry	0.5		05/07/2011	6020	KS
7440-39-3	Barium - Sediment	6.9	mg/Kg dry	1		05/07/2011	6020	KS
7440-41-7	Beryllium - Sediment	ND	mg/Kg dry	0.2		05/07/2011	6020	KS
7440-43-9	Cadmium - Sediment	ND	mg/Kg dry	0.2		05/07/2011	6020	KS
7440-47-3	Chromium - Sediment	4.7	mg/Kg dry	2		05/07/2011	6020	KS
7440-48-4	Cobalt - Sediment	1.8	mg/Kg dry	.5		05/07/2011	6020	KS
7440-50-8	Copper - Sediment	3.0	mg/Kg dry	1		05/07/2011	6020	KS
	Digest Antimony - Sediment	Completed				05/20/2011	3050	WN
	Digest Metals - Sediment	Completed				05/04/2011	3050	WN
7439-89-6	Iron - Sediment	4700	mg/Kg dry	50	D	05/10/2011	6010	WN
7439-92-1	Lead - Sediment	2.5	mg/Kg dry	1		05/07/2011	6020	KS
7439-96-5	Manganese - Sediment	64	mg/Kg dry	1		05/07/2011	6020	KS
7439-98-7	Molybdenum - Sediment	ND	mg/Kg dry	1		05/07/2011	6020	KS
7440-02-0	Nickel - Sediment	4.2	mg/Kg dry	1		05/07/2011	6020	KS
7782-49-2	Selenium - Sediment	ND	mg/Kg dry	0.2		05/07/2011	6020	KS
7440-22-4	Silver - Sediment	ND	mg/Kg dry	0.1		05/07/2011	6020	KS
7440-28-0	Thallium - Sediment	ND	mg/Kg dry	0.5		05/07/2011	6020	KS
7440-62-2	Vanadium - Sediment	6.9	mg/Kg dry	1		05/07/2011	6020	KS
7440-66-6	Zinc - Sediment	11	mg/Kg dry	1		05/07/2011	6020	KS
	% Total Solids	94.2	%	0.1		05/03/2011	2540B SM	KS
	Drying and Grinding - Sediment	COMPLETE				05/03/2011		KS
	Gel Permeation Cleanup-Pesticide/PCJ	Completed				05/09/2011	3640	DT
	Gel Permeation Cleanup-SVOC-Analy	Completed				05/03/2011	3640	DT

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Sample Number: AB73250 SB-02

Pesticides and PCBs

Analytical Method: 8081,8082 Date Tested: 05/11/2011 Analyst: MF
Extraction Method: 3545 Extraction Date: 05/03/2011 Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
SURROGATE	#Decachlorobiphenyl#	67.9			
SURROGATE	#Tetrachloro-m-xylene#	72.5			
72-54-8	4,4'-DDD	Not Detected	23		1.0
72-55-9	4,4'-DDE	Not Detected	23		1.0
50-29-3	4,4'-DDT	Not Detected	23		1.0
519-84-6	a-BHC	Not Detected	23		1.0
5103-71-9	a-Chlordane	Not Detected	23		1.0
309-00-2	Aldrin	Not Detected	23		1.0
12674-11-2	Aroclor 1016	Not Detected	110		1.0
11104-28-2	Aroclor 1221	Not Detected	110		1.0
11141-16-5	Aroclor 1232	Not Detected	110		1.0
53469-21-9	Aroclor 1242	Not Detected	110		1.0
12672-29-6	Aroclor 1248	Not Detected	110		1.0
11097-69-1	Aroclor 1254	Not Detected	110		1.0
11096-82-5	Aroclor 1260	Not Detected	110		1.0
57524-23-5	Aroclor 1262	Not Detected	110		1.0
11100-14-4	Aroclor 1268	Not Detected	110		1.0
519-85-7	b-BHC	Not Detected	23		1.0
319-86-8	d-BHC	Not Detected	23		1.0
60-57-1	Dieldrin	Not Detected	23		1.0
959-98-8	Endosulfan I	Not Detected	23		1.0
33213-65-9	Endosulfan II	Not Detected	23		1.0
1031-07-8	Endosulfan sulfate	Not Detected	23		1.0
72-20-8	Endrin	Not Detected	23		1.0
7421-93-4	Endrin aldehyde	Not Detected	23		1.0
53494-70-5	Endrin ketone	Not Detected	23		1.0
58-89-9	g-BHC (Lindane)	Not Detected	23		1.0
5103-74-2	g-Chlordane	Not Detected	23		1.0
76-44-8	Heptachlor	Not Detected	23		1.0
1024-57-3	Heptachlor epoxide	Not Detected	23		1.0
87-82-1	Hexabromobenzene	Not Detected	110		1.0
72-43-5	Methoxychlor	Not Detected	57		1.0
2385-85-5	Mirex	Not Detected	57		1.0
59080-40-9	PBB (BP-6)	Not Detected	280		1.0
8001-35-2	Toxaphene	Not Detected	190		1.0

CAS# : Chemical Abstract Service Registry Number
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ND : Not Detected

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mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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Systems Mgmt Unit: George Krisztian



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P.O. Box 30270
Lansing, MI 48909
TEL: (517) 335-9800
FAX: (517) 335-9600

Sample Number: AB73250 SB-02

Base Neutral Acid Compounds

Analytical Method: 8270 Date Tested: 05/11/2011 Analyst: SMH
Extraction Method: 3545 Extraction Date: 05/02/2011 Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
SURROGATE	#2-Fluorobiphenyl#	63.4			
SURROGATE	#2,4,6-Tribromophenol#	65.4			
SURROGATE	#2-Fluorophenol#	61.3			
SURROGATE	#Nitrobenzene - D5#	66.0			
SURROGATE	#Phenol - D6#	68.9			
SURROGATE	#p-Terphenyl-d14#	75.2			
120-82-1	1,2,4-Trichlorobenzene	Not Detected	450		2.0
95-95-4	2,4,5-Trichlorophenol	Not Detected	750		2.0
88-06-2	2,4,6-Trichlorophenol	Not Detected	750		2.0
120-83-2	2,4-Dichlorophenol	Not Detected	750		2.0
105-67-9	2,4-Dimethylphenol	Not Detected	750		2.0
51-28-5	2,4-Dinitrophenol	Not Detected	3900	Z	2.0
121-14-2	2,4-Dinitrotoluene	Not Detected	570		2.0
606-20-2	2,6-Dinitrotoluene	Not Detected	570		2.0
91-58-7	2-Chloronaphthalene	Not Detected	450		2.0
95-57-8	2-Chlorophenol	Not Detected	750		2.0
534-52-1	2-Methyl-4,6-dinitrophenol	Not Detected	3900	Z	2.0
91-57-6	2-Methylnaphthalene	Not Detected	570		2.0
95-48-7	2-Methylphenol (o-Cresol)	Not Detected	750		2.0
88-74-4	2-Nitroaniline	Not Detected	1100		2.0
88-75-5	2-Nitrophenol	Not Detected	750		2.0
108394,106445	3 & 4-Methylphenol	Not Detected	1500		2.0
99-09-2	3-Nitroaniline	Not Detected	1100		2.0
101-55-3	4-Bromophenyl phenyl ether	Not Detected	450		2.0
59-50-7	4-Chloro-3-methyl-phenol	Not Detected	450		2.0
7005-72-3	4-Chlorodiphenylether	Not Detected	230		2.0
100-01-6	4-Nitroaniline	Not Detected	1100	S	2.0
100-02-7	4-Nitrophenol	Not Detected	3900	7Z	2.0
83-32-9	Acenaphthene	Not Detected	230		2.0
208-96-8	Acenaphthylene	Not Detected	230		2.0
120-12-7	Anthracene	Not Detected	230		2.0
103-33-3	Azobenzene	Not Detected	450		2.0
56-55-3	Benzo[a]anthracene	Not Detected	230		2.0
50-32-8	Benzo[a]pyrene	Not Detected	450		2.0
205-99-2	Benzo[b]fluoranthene	Not Detected	450		2.0
191-24-2	Benzo[g,h,i]perylene	Not Detected	450		2.0
207-08-9	Benzo[k]fluoranthene	Not Detected	450		2.0
100-51-6	Benzyl Alcohol	Not Detected	5700		2.0
111-91-1	Bis(2-chloroethoxy)methane	Not Detected	450		2.0
111-44-4	Bis(2-chloroethyl)ether	Not Detected	230		2.0

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mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
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Sample Number: AB73250 SB-02

Base Neutral Acid Compounds

Analytical Method: 8270 Date Tested: 05/11/2011 Analyst: SMH
Extraction Method: 3545 Extraction Date: 05/02/2011 Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
108-60-1	Bis(2-chloroisopropyl)ether	Not Detected	230		2.0
117-81-7	Bis(2-ethylhexyl)phthalate	Not Detected	570		2.0
85-68-7	Butyl benzyl phthalate	Not Detected	570		2.0
86-74-8	Carbazole	Not Detected	570		2.0
218-01-9	Chrysene	Not Detected	230		2.0
53-70-3	Dibenz[a,h]anthracene	Not Detected	450		2.0
132-64-9	Dibenzofuran	Not Detected	570		2.0
84-66-2	Diethylphthalate	Not Detected	570		2.0
131-11-3	Dimethyl phthalate	Not Detected	570		2.0
84-74-2	Di-n-butyl phthalate	Not Detected	570		2.0
117-84-0	Di-n-octyl phthalate	Not Detected	570		2.0
206-44-0	Fluoranthene	Not Detected	230		2.0
86-73-7	Fluorene	Not Detected	230		2.0
118-74-1	Hexachlorobenzene	Not Detected	450		2.0
87-68-3	Hexachlorobutadiene	Not Detected	230	Z	2.0
77-47-4	Hexachlorocyclopentadiene	Not Detected	2300	Z	2.0
67-72-1	Hexachloroethane	Not Detected	230		2.0
193-39-5	Indeno(1,2,3-c,d)pyrene	Not Detected	450		2.0
78-59-1	Isophorone	Not Detected	230		2.0
91-20-3	Naphthalene	Not Detected	230	}	2.0
98-95-3	Nitrobenzene	Not Detected	450		2.0
67-75-9	N-Nitrosodimethylamine	Not Detected	570		2.0
621-64-7	N-Nitrosodi-n-propylamine	Not Detected	450		2.0
86-30-6	N-Nitrosodiphenylamine	Not Detected	450		2.0
87-86-5	Pentachlorophenol	Not Detected	3900	Z=800	2.0
85-01-8	Phenanthrene	Not Detected	230		2.0
108-95-2	Phenol	Not Detected	750		2.0
129-00-0	Pyrene	Not Detected	230		2.0

RLs raised due to matrix.

Volatile Compounds

Analytical Method: 8260 Date Tested: 05/07/2011 Analyst: SJR
Extraction Method: 5035 Extraction Date: 05/02/2011 Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
	##Weight of sample(grams)	9.29			
SURROGATE	#Bromofluorobenzene#	113			
SURROGATE	#Dibromofluoromethane#	128			
SURROGATE	#Toluene-d8#	121			

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
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mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
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Sample Number: AB73250 SB-02

Volatile Compounds

Analytical Method: 8260 Date Tested: 05/07/2011 Analyst: SJR
Extraction Method: 5035 Extraction Date: 05/02/2011 Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
630-20-6	1,1,1,2-Tetrachloroethane	Not Detected	68		50
71-55-6	1,1,1-Trichloroethane	Not Detected	68		50
79-34-5	1,1,1,2-Tetrachloroethane	Not Detected	68		50
79-00-5	1,1,2-Trichloroethane	Not Detected	68		50
75-34-3	1,1-Dichloroethane	Not Detected	68		50
75-35-4	1,1-Dichloroethylene	Not Detected	68		50
87-61-6	1,2,3-Trichlorobenzene	Not Detected	340		50
96-18-4	1,2,3-Trichloropropane	Not Detected	68		50
526-73-8	1,2,3-Trimethylbenzene	Not Detected	68		50
120-82-1	1,2,4-Trichlorobenzene	Not Detected	340		50
95-63-6	1,2,4-Trimethylbenzene	Not Detected	68		50
96-12-8	1,2-Dibromo-3-chloropropane	Not Detected	340		50
106-93-4	1,2-Dibromoethane	Not Detected	68	Z	50
95-50-1	1,2-Dichlorobenzene	Not Detected	68		50
107-06-2	1,2-Dichloroethane	Not Detected	68		50
78-87-5	1,2-Dichloropropane	Not Detected	68		50
108-67-8	1,3,5-Trimethylbenzene	Not Detected	68		50
541-73-1	1,3-Dichlorobenzene	Not Detected	68		50
106-46-7	1,4-Dichlorobenzene	Not Detected	68		50
78-93-3	2-Butanone (MEK)	Not Detected	340	5	50
591-78-6	2-Hexanone	Not Detected	340		50
91-57-6	2-Methylnaphthalene	Not Detected	340	X	50
67-64-1	2-Propanone (acetone)	Not Detected	1400	5	50
108-10-1	4-Methyl-2-pentanone (MIBK)	Not Detected	340		50
107-13-1	Acrylonitrile	Not Detected	340	Z	50
71-43-2	Benzene	Not Detected	68		50
108-86-1	Bromobenzene	Not Detected	68		50
74-97-5	Bromochloromethane	Not Detected	68		50
75-27-4	Bromodichloromethane	Not Detected	68		50
75-25-2	Bromoform	Not Detected	68		50
74-83-9	Bromomethane	Not Detected	270		50
75-15-0	Carbon disulfide	Not Detected	68		50
56-23-5	Carbon tetrachloride	Not Detected	68		50
108-90-7	Chlorobenzene	Not Detected	68		50
75-00-3	Chloroethane	Not Detected	340		50
67-66-3	Chloroform	Not Detected	68		50
74-87-3	Chloromethane	Not Detected	340		50
156-59-2	cis-1,2-Dichloroethylene	Not Detected	68		50
10061-01-5	cis-1,3-Dichloropropylene	Not Detected	68		50
110-82-7	Cyclohexane	Not Detected	340		50

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Sample Number: AB73250 SB-02

Volatile Compounds

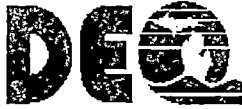
Analytical Method: 8260 Date Tested: 05/07/2011 Analyst: SJR
Extraction Method: 5035 Extraction Date: 05/02/2011 Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
124-48-1	Dibromochloromethane	Not Detected	68		50
74-95-3	Dibromomethane	Not Detected	68		50
75-71-8	Dichlorodifluoromethane	Not Detected	340		50
60-29-7	Diethyl ether	Not Detected	270		50
108-20-3	Diisopropyl Ether	Not Detected	340		50
100-41-4	Ethylbenzene	Not Detected	68		50
637-92-3	Ethyltertiarybutylether	Not Detected	340		50
67-72-1	Hexachloroethane	Not Detected	340	7	50
98-82-8	Isopropylbenzene	Not Detected	68		50
108383,106423	m & p - Xylene	Not Detected	140		50
74-88-4	Methyl iodide	Not Detected	68		50
75-09-2	Methylene chloride	Not Detected	140		50
1534-04-4	Methyltertiarybutylether	Not Detected	68		50
91-20-3	Naphthalene	Not Detected	340	X	50
104-51-8	n-Butylbenzene	Not Detected	68		50
103-65-1	n-Propylbenzene	Not Detected	68		50
95-47-6	o-Xylene	Not Detected	68		50
99-87-6	p-Isopropyl toluene	Not Detected	68		50
135-98-8	sec-Butylbenzene	Not Detected	68		50
100-42-5	Styrene	Not Detected	68		50
98-06-6	tert-Butylbenzene	Not Detected	68		50
75-65-0	tertiary Butyl Alcohol	Not Detected	3400		50
994-05-8	tertiary Amyl methyl ether	Not Detected	340		50
127-18-4	Tetrachloroethylene	Not Detected	68		50
109-99-9	Tetrahydrofuran	Not Detected	340		50
108-88-3	Toluene	Not Detected	68		50
156-60-5	trans-1,2-Dichloroethylene	Not Detected	68		50
10061-02-6	trans-1,3-Dichloropropylene	Not Detected	68		50
110-57-6	trans-1,4-Dichloro-2-butene	Not Detected	340	77	50
79-01-6	Trichloroethylene	Not Detected	68		50
75-69-4	Trichlorofluoromethane	Not Detected	68		50
75-01-4	Vinyl chloride	Not Detected	68	Z	50

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ug / Kg : microgram / kilogram (ppb)
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Sample Number: AB73250 SB-02

CAS#	Analyte Name	Result	Unit	RL	Qualifier	Date Tested	Method	Analyst
57-12-5	Cyanide - Sediment	ND	mg/Kg dry	0.1		05/17/2011	ASTM D 751	MB
	Cyanide-Extraction	Completed				05/10/2011	9013	MB
	Digest Mercury - Sediment	Completed				05/11/2011	7471	TS
7439-97-6	Mercury - Sediment	ND	mg/Kg dry	0.05		05/12/2011	7471	TS
7440-36-0	Antimony - Sediment	ND	mg/Kg dry	0.3		05/21/2011	6020	KS
7440-38-2	Arsenic - Sediment	2.7	mg/Kg dry	0.5		05/21/2011	6020	KS
7440-39-3	Barium - Sediment	17	mg/Kg dry	1		05/21/2011	6020	KS
7440-41-7	Beryllium - Sediment	0.22	mg/Kg dry	0.2		05/21/2011	6020	KS
7440-43-9	Cadmium - Sediment	ND	mg/Kg dry	0.2		05/21/2011	6020	KS
7440-47-3	Chromium - Sediment	10	mg/Kg dry	2		05/21/2011	6020	KS
7440-48-4	Cobalt - Sediment	2.4	mg/Kg dry	.5		05/21/2011	6020	KS
7440-50-8	Copper - Sediment	8.1	mg/Kg dry	1		05/21/2011	6020	KS
	Digest Antimony - Sediment	Completed				05/20/2011	3050	WN
	Digest Metals - Sediment	Completed				05/18/2011	3050	WN
7439-89-6	Iron - Sediment	9000	mg/Kg dry	50	D	05/25/2011	6010	WN
7439-92-1	Lead - Sediment	3.1	mg/Kg dry	1		05/21/2011	6020	KS
7439-96-5	Manganese - Sediment	120	mg/Kg dry	1	4	05/21/2011	6020	KS
7439-98-7	Molybdenum - Sediment	ND	mg/Kg dry	1		05/21/2011	6020	KS
7440-02-0	Nickel - Sediment	9.2	mg/Kg dry	1		05/21/2011	6020	KS
7782-49-2	Selenium - Sediment	ND	mg/Kg dry	0.2		05/21/2011	6020	KS
7440-22-4	Silver - Sediment	ND	mg/Kg dry	0.1		05/21/2011	6020	KS
7440-28-0	Thallium - Sediment	ND	mg/Kg dry	0.5		05/21/2011	6020	KS
7440-62-2	Vanadium - Sediment	11	mg/Kg dry	1		05/21/2011	6020	KS
7440-66-6	Zinc - Sediment	17	mg/Kg dry	1		05/21/2011	6020	KS
	% Total Solids	88.2	%	0.1		05/14/2011	2540B SM	KS
	Drying and Grinding - Sediment	COMPLETE				05/14/2011		KS
	Gel Permeation Cleanup-Pesticide/PCl	Completed				05/09/2011	3640	DT
	Gel Permeation Cleanup-SVOC Analy	Completed				05/03/2011	3640	DT

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Sample Number: AB73251 SB-03

Pesticides and PCBs

Analytical Method: 8081,8082 Date Tested: 05/11/2011 Analyst: MF
 Extraction Method: 3545 Extraction Date: 05/03/2011 Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
SURROGATE	#Decachlorobiphenyl#	60.6			
SURROGATE	#Tetrachloro-m-xylene#	67.4			
72-54-8	4,4'-DDD	Not Detected	22		1.0
72-55-9	4,4'-DDE	Not Detected	22		1.0
50-29-3	4,4'-DDT	Not Detected	22		1.0
319-84-6	a-BHC	Not Detected	11		1.0
5103-71-9	a-Chlordane	Not Detected	22		1.0
309-00-2	Aldrin	Not Detected	22		1.0
12674-11-2	Aroclor 1016	Not Detected	110		1.0
11104-28-2	Aroclor 1221	Not Detected	110		1.0
11141-16-5	Aroclor 1232	Not Detected	110		1.0
53469-21-9	Aroclor 1242	Not Detected	110		1.0
12672-29-6	Aroclor 1248	Not Detected	110		1.0
11097-69-1	Aroclor 1254	Not Detected	110		1.0
11096-82-5	Aroclor 1260	Not Detected	110		1.0
37324-23-5	Aroclor 1262	Not Detected	110		1.0
11100-14-4	Aroclor 1268	Not Detected	110		1.0
319-85-7	b-BHC	Not Detected	22		1.0
319-86-8	d-BHC	Not Detected	22		1.0
60-57-1	Dieldrin	Not Detected	22		1.0
959-98-8	Endosulfan I	Not Detected	22		1.0
33213-65-9	Endosulfan II	Not Detected	22		1.0
1031-07-8	Endosulfan sulfate	Not Detected	22		1.0
72-20-8	Endrin	Not Detected	22		1.0
7421-93-4	Endrin aldehyde	Not Detected	22		1.0
53494-70-5	Endrin ketone	Not Detected	22		1.0
58-89-9	g-BHC (Lindane)	Not Detected	22		1.0
5103-74-2	g-Chlordane	Not Detected	22		1.0
76-44-8	Heptachlor	Not Detected	22		1.0
1024-57-3	Heptachlor epoxide	Not Detected	22		1.0
87-82-1	Hexabromobenzene	Not Detected	110		1.0
72-43-5	Methoxychlor	Not Detected	54		1.0
2385-85-5	Mirex	Not Detected	54		1.0
59080-40-9	PBB (BP-6)	Not Detected	270		1.0
8001-35-2	Toxaphene	Not Detected	180		1.0

CAS# : Chemical Abstract Service Registry Number
 RL : Reporting Limit
 ND : Not Detected

ug / L : microgram / liter (ppb)
 mg / L : milligram / liter (ppm)
 ug / Kg : microgram / kilogram (ppb)
 mg / Kg : milligram / kilogram (ppm)

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Sample Number: AB73251 SB-03

Base Neutral Acid Compounds

Analytical Method: 8270 Date Tested: 05/12/2011 Analyst: SMH
Extraction Method: 3545 Extraction Date: 05/05/2011 Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
SURROGATE	#2-Fluorobiphenyl#	58.0			
SURROGATE	#2,4,6-Tribromophenol#	63.3			
SURROGATE	#2-Fluorophenol#	58.3			
SURROGATE	#Nitrobenzene - D5#	59.5			
SURROGATE	#Phenol - D6#	62.5			
SURROGATE	#p-Terphenyl-d14#	65.3			
120-82-1	1,2,4-Trichlorobenzene	Not Detected	220		1.0
95-95-4	2,4,5-Trichlorophenol	Not Detected	360		1.0
88-06-2	2,4,6-Trichlorophenol	Not Detected	360		1.0
120-83-2	2,4-Dichlorophenol	Not Detected	360		1.0
105-67-9	2,4-Dimethylphenol	Not Detected	360		1.0
51-28-5	2,4-Dinitrophenol	Not Detected	1800	Z	1.0
121-14-2	2,4-Dinitrotoluene	Not Detected	270		1.0
606-20-2	2,6-Dinitrotoluene	Not Detected	270		1.0
91-58-7	2-Chloronaphthalene	Not Detected	220		1.0
95-57-8	2-Chlorophenol	Not Detected	360		1.0
534-52-1	2-Methyl-4,6-dinitrophenol	Not Detected	1800	Z	1.0
91-57-6	2-Methylnaphthalene	Not Detected	270		1.0
95-48-7	2-Methylphenol (o-Cresol)	Not Detected	360		1.0
88-74-4	2-Nitroaniline	Not Detected	540		1.0
88-75-5	2-Nitrophenol	Not Detected	360		1.0
108394,106445	3 & 4-Methylphenol	Not Detected	720		1.0
99-09-2	3-Nitroaniline	Not Detected	540		1.0
101-55-3	4-Bromophenyl phenyl ether	Not Detected	220		1.0
59-50-7	4-Chloro-3-methyl-phenol	Not Detected	220		1.0
7005-72-3	4-Chlorodiphenylether	Not Detected	110		1.0
100-01-6	4-Nitroaniline	Not Detected	540		1.0
100-02-7	4-Nitrophenol	Not Detected	1800	Z	1.0
83-32-9	Acenaphthene	Not Detected	110		1.0
208-96-8	Acenaphthylene	Not Detected	110		1.0
120-12-7	Anthracene	Not Detected	110		1.0
103-33-3	Azobenzene	Not Detected	220		1.0
56-55-3	Benzo[a]anthracene	Not Detected	110		1.0
50-32-8	Benzo[a]pyrene	Not Detected	220		1.0
205-99-2	Benzo[b]fluoranthene	Not Detected	220		1.0
191-24-2	Benzo[g,h,i]perylene	Not Detected	220		1.0
207-08-9	Benzo[k]fluoranthene	Not Detected	220		1.0
100-51-6	Benzyl Alcohol	Not Detected	2700		1.0
111-91-1	Bis(2-chloroethoxy)methane	Not Detected	220		1.0
111-44-4	Bis(2-chloroethyl)ether	Not Detected	110		1.0

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

Laboratory Contacts
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Organic Unit Mgr: Carol Smith
Systems Mgmt Unit: George Krisztian



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Sample Number: AB73251 SB-03

Base Neutral Acid Compounds

Analytical Method: 8270 Date Tested: 05/12/2011 Analyst: SMH
Extraction Method: 3545 Extraction Date: 05/05/2011 Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
108-60-1	Bis(2-chloroisopropyl)ether	Not Detected	110		1.0
117-81-7	Bis(2-ethylhexyl)phthalate	Not Detected	270		1.0
85-68-7	Butyl benzyl phthalate	Not Detected	270		1.0
86-74-8	Carbazole	Not Detected	270		1.0
218-01-9	Chrysene	Not Detected	110		1.0
53-70-3	Dibenz[a,h]anthracene	Not Detected	220		1.0
132-64-9	Dibenzofuran	Not Detected	270		1.0
84-66-2	Diethylphthalate	Not Detected	270		1.0
131-11-3	Dimethyl phthalate	Not Detected	270		1.0
84-74-2	Di-n-butyl phthalate	Not Detected	270		1.0
147-84-0	Di-n-octyl phthalate	Not Detected	270		1.0
206-44-0	Fluoranthene	Not Detected	110		1.0
86-73-7	Fluorene	Not Detected	110		1.0
118-74-1	Hexachlorobenzene	Not Detected	220		1.0
87-68-3	Hexachlorobutadiene	Not Detected	110	Z	1.0
77-47-4	Hexachlorocyclopentadiene	Not Detected	1100	Z	1.0
67-72-1	Hexachloroethane	Not Detected	110		1.0
193-39-5	Indeno(1,2,3-c,d)pyrene	Not Detected	220		1.0
78-59-1	Isophorone	Not Detected	110		1.0
91-20-3	Naphthalene	Not Detected	110		1.0
98-95-3	Nitrobenzene	Not Detected	220		1.0
67-75-9	N-Nitrosodimethylamine	Not Detected	270		1.0
621-64-7	N-Nitrosodi-n-propylamine	Not Detected	220		1.0
86-30-6	N-Nitrosodiphenylamine	Not Detected	220		1.0
87-86-5	Pentachlorophenol	Not Detected	1800	Z=800	1.0
85-01-8	Phenanthrene	Not Detected	110		1.0
108-95-2	Phenol	Not Detected	360		1.0
129-00-0	Pyrene	Not Detected	110		1.0

Volatile Compounds

Analytical Method: 8260 Date Tested: 05/07/2011 Analyst: SJR
Extraction Method: 5035 Extraction Date: 05/02/2011 Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
	##Weight of sample(grams)	9.38			
SURROGATE	#Bromofluorobenzene#	110			
SURROGATE	#Dibromofluoromethane#	122			
SURROGATE	#Toluene-d8#	119			

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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Sample Number: AB73251 SB-03

Volatile Compounds

Analytical Method: 8260
Extraction Method: 5035

Date Tested: 05/07/2011
Extraction Date: 05/02/2011

Analyst: SJR
Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
630-20-6	1,1,1,2-Tetrachloroethane	Not Detected	62		50
71-55-6	1,1,1-Trichloroethane	Not Detected	62		50
79-34-5	1,1,2,2-Tetrachloroethane	Not Detected	62		50
79-00-5	1,1,2-Trichloroethane	Not Detected	62		50
75-34-3	1,1-Dichloroethane	Not Detected	62		50
75-35-4	1,1-Dichloroethylene	Not Detected	62		50
87-61-6	1,2,3-Trichlorobenzene	Not Detected	310		50
96-18-4	1,2,3-Trichloropropane	Not Detected	62		50
526-73-8	1,2,3-Trimethylbenzene	Not Detected	62		50
120-82-1	1,2,4-Trichlorobenzene	Not Detected	310		50
95-63-6	1,2,4-Trimethylbenzene	Not Detected	62		50
96-12-8	1,2-Dibromo-3-chloropropane	Not Detected	310		50
106-93-4	1,2-Dibromoethane	Not Detected	62	Z	50
95-50-1	1,2-Dichlorobenzene	Not Detected	62		50
107-06-2	1,2-Dichloroethane	Not Detected	62		50
78-87-5	1,2-Dichloropropane	Not Detected	62		50
108-67-8	1,3,5-Trimethylbenzene	Not Detected	62		50
541-73-1	1,3-Dichlorobenzene	Not Detected	62		50
106-46-7	1,4-Dichlorobenzene	Not Detected	62		50
78-93-3	2-Butanone (MEK)	Not Detected	310	S	50
591-78-6	2-Hexanone	Not Detected	310		50
91-57-6	2-Methylnaphthalene	Not Detected	310	X	50
67-64-1	2-Propanone (acetone)	Not Detected	1200	S	50
108-10-1	4-Methyl-2-pentanone (MIBK)	Not Detected	310		50
107-13-1	Acrylonitrile	Not Detected	310	Z	50
71-43-2	Benzene	Not Detected	62		50
108-86-1	Bromobenzene	Not Detected	62		50
74-97-5	Bromochloromethane	Not Detected	62		50
75-27-4	Bromodichloromethane	Not Detected	62		50
75-25-2	Bromoform	Not Detected	62		50
74-83-9	Bromomethane	Not Detected	250		50
75-15-0	Carbon disulfide	Not Detected	62		50
56-23-5	Carbon tetrachloride	Not Detected	62		50
108-90-7	Chlorobenzene	Not Detected	62		50
75-00-3	Chloroethane	Not Detected	310		50
67-66-3	Chloroform	Not Detected	62		50
74-87-3	Chloromethane	Not Detected	310		50
156-59-2	cis-1,2-Dichloroethylene	Not Detected	62		50
10061-01-5	cis-1,3-Dichloropropylene	Not Detected	62		50
110-82-7	Cyclohexane	Not Detected	310		50

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ug / Kg : microgram / kilogram (ppb)
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Sample Number: AB73251 SB-03

Volatile Compounds

Analytical Method: 8260 Date Tested: 05/07/2011 Analyst: SJR
Extraction Method: 5035 Extraction Date: 05/02/2011 Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
124-48-1	Dibromochloromethane	Not Detected	62	3	50
74-95-3	Dibromomethane	Not Detected	62		50
75-71-8	Dichlorodifluoromethane	Not Detected	310		50
60-29-7	Diethyl ether	Not Detected	250		50
108-20-3	Diisopropyl Ether	Not Detected	310		50
100-41-4	Ethylbenzene	Not Detected	62		50
637-92-3	Ethyltertiarybutylether	Not Detected	310		50
67-72-1	Hexachloroethane	Not Detected	310	7	50
98-82-8	Isopropylbenzene	Not Detected	62		50
108383,106423	m & p - Xylene	Not Detected	120		50
74-88-4	Methyl iodide	Not Detected	62		50
75-09-2	Methylene chloride	Not Detected	120		50
1634-04-4	Methyltertiarybutylether	Not Detected	62		50
91-20-3	Naphthalene	Not Detected	310	X	50
104-51-8	n-Butylbenzene	Not Detected	62		50
103-65-1	n-Propylbenzene	Not Detected	62		50
95-47-6	o-Xylene	Not Detected	62		50
99-87-6	p-Isopropyl toluene	Not Detected	62		50
135-98-8	sec-Butylbenzene	Not Detected	62		50
100-42-5	Styrene	Not Detected	62		50
98-06-6	tert-Butylbenzene	Not Detected	62		50
75-65-0	tertiary Butyl Alcohol	Not Detected	3100		50
994-05-8	tertiary Amyl methyl ether	Not Detected	310		50
127-18-4	Tetrachloroethylene	Not Detected	62		50
109-99-9	Tetrahydrofuran	Not Detected	310		50
108-88-3	Toluene	Not Detected	62		50
156-60-5	trans-1,2-Dichloroethylene	Not Detected	62		50
10061-02-6	trans-1,3-Dichloropropylene	Not Detected	62		50
110-57-6	trans-1,4-Dichloro-2-butene	Not Detected	310	7Z	50
79-01-6	Trichloroethylene	Not Detected	62		50
75-69-4	Trichlorofluoromethane	Not Detected	62		50
75-01-4	Vinyl chloride	Not Detected	62	Z	50

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Sample Number: AB73251 SB-03

CAS#	Analyte Name	Result	Unit	RL	Qualifier	Date Tested	Method	Analyst
57-12-5	Cyanide - Sediment	ND	mg/Kg dry	0.1		05/11/2011	ASTM D 751	MB
	Cyanide-Extraction	Completed				05/10/2011	9013	MB
	Digest Mercury - Sediment	Completed				05/11/2011	7471	TS
7439-97-6	Mercury - Sediment	ND	mg/Kg dry	0.05		05/12/2011	7471	TS
7440-36-0	Antimony - Sediment	ND	mg/Kg dry	0.3		05/21/2011	6020	KS
7440-38-2	Arsenic - Sediment	4.6	mg/Kg dry	0.5		05/21/2011	6020	KS
7440-39-3	Barium - Sediment	13	mg/Kg dry	1		05/21/2011	6020	KS
7440-41-7	Beryllium - Sediment	ND	mg/Kg dry	0.2		05/21/2011	6020	KS
7440-43-9	Cadmium - Sediment	ND	mg/Kg dry	0.2		05/21/2011	6020	KS
7440-47-3	Chromium - Sediment	8.9	mg/Kg dry	2		05/21/2011	6020	KS
7440-48-4	Cobalt - Sediment	3.6	mg/Kg dry	.5		05/21/2011	6020	KS
7440-50-8	Copper - Sediment	8.4	mg/Kg dry	1		05/21/2011	6020	KS
	Digest Antimony - Sediment	Completed				05/20/2011	3050	WN
	Digest Metals - Sediment	Completed				05/18/2011	3050	WN
7439-89-6	Iron - Sediment	9600	mg/Kg dry	50	D	05/25/2011	6010	WN
7439-92-1	Lead - Sediment	4.6	mg/Kg dry	1		05/21/2011	6020	KS
7439-96-5	Manganese - Sediment	310	mg/Kg dry	1	4	05/21/2011	6020	KS
7439-98-7	Molybdenum - Sediment	ND	mg/Kg dry	1		05/21/2011	6020	KS
7440-02-0	Nickel - Sediment	11	mg/Kg dry	1		05/21/2011	6020	KS
7782-49-2	Selenium - Sediment	ND	mg/Kg dry	0.2		05/21/2011	6020	KS
7440-22-4	Silver - Sediment	ND	mg/Kg dry	0.1		05/21/2011	6020	KS
7440-28-0	Thallium - Sediment	ND	mg/Kg dry	0.5		05/21/2011	6020	KS
7440-62-2	Vanadium - Sediment	12	mg/Kg dry	1		05/21/2011	6020	KS
7440-66-6	Zinc - Sediment	20	mg/Kg dry	1		05/21/2011	6020	KS
	% Total Solids	92.1	%	0.1		05/14/2011	2540B SM	KS
	Drying and Grinding - Sediment	COMPLETE				05/14/2011		KS
	Gel Permeation Cleanup-Pesticide/PCI	Completed				05/09/2011	3640	DT
	Gel Permeation Cleanup-SVOC Analy	Completed				05/05/2011	3640	DT

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Sample Number: AB73252 SB-03 MS

Pesticides and PCBs

Analytical Method: 8081,8082
Extraction Method: 3545

Date Tested: 05/11/2011
Extraction Date: 05/03/2011

Analyst: MF
Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
SURROGATE	#Decachlorobiphenyl#	61.3			
SURROGATE	#Tetrachloro-m-xylene#	77.6			
72-54-8	4,4'-DDD	100	22		1.0
72-55-9	4,4'-DDE	100	22		1.0
50-29-3	4,4'-DDT	93	22		1.0
519-84-6	a-BHC	96	110		1.0
5103-71-9	a-Chlordane	100	22		1.0
509-00-2	Aldrin	100	22		1.0
12674-11-2	Aroclor 1016	Not Detected	110		1.0
11104-28-2	Aroclor 1221	Not Detected	110		1.0
11141-16-5	Aroclor 1232	Not Detected	110		1.0
53469-21-9	Aroclor 1242	Not Detected	110		1.0
12672-29-6	Aroclor 1248	Not Detected	110		1.0
11097-69-1	Aroclor 1254	Not Detected	110		1.0
11096-82-5	Aroclor 1260	Not Detected	110		1.0
87324-23-5	Aroclor 1262	Not Detected	110		1.0
11100-14-4	Aroclor 1268	Not Detected	110		1.0
319-85-7	b-BHC	100	22		1.0
319-86-8	d-BHC	100	22		1.0
60-57-1	Dieldrin	100	22		1.0
959-98-8	Endosulfan I	90	22		1.0
33213-65-9	Endosulfan II	92	22		1.0
1031-07-8	Endosulfan sulfate	100	22		1.0
72-20-8	Endrin	100	22		1.0
7421-93-4	Endrin aldehyde	80	22		1.0
53494-70-5	Endrin ketone	100	22		1.0
58-89-9	g-BHC (Lindane)	97	22		1.0
5103-74-2	g-Chlordane	100	22		1.0
76-44-8	Heptachlor	92	22		1.0
1024-57-3	Heptachlor epoxide	100	22		1.0
87-82-1	Hexabromobenzene	78	110	T	1.0
72-43-5	Methoxychlor	93	54		1.0
2385-85-5	Mirex	97	54		1.0
59080-40-9	PBB (BP-6)	Not Detected	270		1.0
8001-35-2	Toxaphene	Not Detected	180		1.0

Sample is a matrix spike.

Pesticides are spiked at 100 ug/Kg wet weight. BP-6 and Toxaphene not spiked.

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Sample Number: AB73252 SB-03 MS

Base Neutral Acid Compounds

Analytical Method: 8270
Extraction Method: 3545

Date Tested: 05/12/2011
Extraction Date: 05/05/2011

Analyst: SMH
Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
SURROGATE	#2-Fluorobiphenyl#	66.6			
SURROGATE	#2,4,6-Tribromophenol#	71.0			
SURROGATE	#2-Fluorophenol#	62.9			
SURROGATE	#Nitrobenzene - D5#	63.8			
SURROGATE	#Phenol - D6#	56.9			
SURROGATE	#p-Terphenyl-d14#	73.1			
120-82-1	1,2,4-Trichlorobenzene	1400	220		1.0
95-95-4	2,4,5-Trichlorophenol	3200	360		1.0
88-06-2	2,4,6-Trichlorophenol	3200	360		1.0
120-83-2	2,4-Dichlorophenol	2900	360		1.0
105-67-9	2,4-Dimethylphenol	2700	360		1.0
51-28-5	2,4-Dinitrophenol	2000	1800	Z	1.0
121-14-2	2,4-Dinitrotoluene	1700	270		1.0
606-20-2	2,6-Dinitrotoluene	1700	270		1.0
91-58-7	2-Chloronaphthalene	1500	220		1.0
95-57-8	2-Chlorophenol	2900	360		1.0
534-52-1	2-Methyl-4,6-dinitrophenol	2400	1800	Z	1.0
91-57-6	2-Methylnaphthalene	1600	270		1.0
95-48-7	2-Methylphenol (o-Cresol)	3000	360		1.0
88-74-4	2-Nitroaniline	1700	540		1.0
88-75-5	2-Nitrophenol	2900	360		1.0
108394,106445	3 & 4-Methylphenol	3000	720		1.0
99-09-2	3-Nitroaniline	1700	540		1.0
101-55-3	4-Bromophenyl phenyl ether	1600	220		1.0
59-50-7	4-Chloro-3-methyl-phenol	3400	220		1.0
7005-72-3	4-Chlorodiphenylether	1600	110		1.0
100-01-6	4-Nitroaniline	1600	540		1.0
100-02-7	4-Nitrophenol	2900	1800	Z	1.0
83-32-9	Acenaphthene	1600	110		1.0
208-96-8	Acenaphthylene	1700	110		1.0
120-12-7	Anthracene	1800	110		1.0
103-33-3	Azobenzene	1600	220		1.0
56-55-3	Benzo[a]anthracene	1700	110		1.0
50-32-8	Benzo[a]pyrene	1600	220		1.0
205-99-2	Benzo[b]fluoranthene	1600	220		1.0
191-24-2	Benzo[g,h,i]perylene	1300	220		1.0
207-08-9	Benzo[k]fluoranthene	1700	220		1.0
100-51-6	Benzyl Alcohol	2700	2700		1.0
111-91-1	Bis(2-chloroethoxy)methane	1400	220		1.0
111-44-4	Bis(2-chloroethyl)ether	1400	110		1.0

-CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

Laboratory Contacts
Inorganic Unit Mgr: Sandy Gregg
Organic Unit Mgr: Carol Smith
Systems Mgmt Unit: George Krisztian



MICHIGAN DEPARTMENT OF NATURAL RESOURCES AND ENVIRONMENT
ENVIRONMENTAL LABORATORY

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TEL: (517) 335-9800
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Sample Number: AB73252 SB-03 MS

Base Neutral Acid Compounds

Analytical Method: 8270 Date Tested: 05/12/2011 Analyst: SMH
Extraction Method: 3545 Extraction Date: 05/05/2011 Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
108-60-1	Bis(2-chloroisopropyl)ether	1500	110		1.0
117-81-7	Bis(2-ethylhexyl)phthalate	1700	270		1.0
85-68-7	Butyl benzyl phthalate	1700	270		1.0
86-74-8	Carbazole	1500	270		1.0
218-01-9	Chrysene	1700	110		1.0
53-70-3	Dibenz[a,h]anthracene	1600	220		1.0
132-64-9	Dibenzofuran	1600	270		1.0
84-66-2	Diethylphthalate	1700	270		1.0
151-11-3	Dimethyl phthalate	1600	270		1.0
84-74-2	Di-n-butyl phthalate	1700	270		1.0
117-84-0	Di-n-octyl phthalate	1700	270		1.0
206-44-0	Fluoranthene	1600	110		1.0
86-73-7	Fluorene	1700	110		1.0
118-74-1	Hexachlorobenzene	1600	220		1.0
87-68-3	Hexachlorobutadiene	1400	110	Z	1.0
77-47-4	Hexachlorocyclopentadiene	1000	1100	Z	1.0
67-72-1	Hexachloroethane	1300	110		1.0
193-39-5	Indeno(1,2,3-c,d)pyrene	1500	220		1.0
78-59-1	Isophorone	1400	110		1.0
91-20-3	Naphthalene	1500	110		1.0
98-95-3	Nitrobenzene	1400	220		1.0
67-75-9	N-Nitrosodimethylamine	1300	270		1.0
621-64-7	N-Nitrosodi-n-propylamine	1500	220		1.0
86-30-6	N-Nitrosodiphenylamine	1700	220		1.0
87-86-5	Pentachlorophenol	2300	1800	Z=800	1.0
85-01-8	Phenanthrene	1700	110		1.0
108-95-2	Phenol	3100	360		1.0
129-00-0	Pyrene	1700	110		1.0

Sample is a matrix spike.

Phenol compounds are spiked at 4000 ug/Kg wet weight.

Base Neutral compounds are spiked at 2000 ug/Kg wet weight.

Volatile Compounds

Analytical Method: 8260 Date Tested: 05/07/2011 Analyst: SJR
Extraction Method: 5035 Extraction Date: 05/02/2011 Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
	##Weight of sample(grams)	9.38			
SURROGATE	#Bromofluorobenzene#	103			

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

Laboratory Contacts
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Sample Number: AB73252 SB-03 MS

Volatile Compounds

Analytical Method: 8260
Extraction Method: 5035

Date Tested: 05/07/2011
Extraction Date: 05/02/2011

Analyst: SJR
Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
SURROGATE	#Dibromofluoromethane#	128			
SURROGATE	#Toluene-d8#	119			
630-20-6	1,1,1,2-Tetrachloroethane	2800	62		50
71-55-6	1,1,1-Trichloroethane	3100	62		50
79-34-5	1,1,2,2-Tetrachloroethane	3600	62		50
79-00-5	1,1,2-Trichloroethane	3300	62		50
75-34-3	1,1-Dichloroethane	3300	62		50
75-35-4	1,1-Dichloroethylene	2800	62		50
87-61-6	1,2,3-Trichlorobenzene	3400	310		50
96-18-4	1,2,3-Trichloropropane	3800	62	4	50
526-73-8	1,2,3-Trimethylbenzene	3200	62		50
120-82-1	1,2,4-Trichlorobenzene	3200	310		50
95-63-6	1,2,4-Trimethylbenzene	3200	62		50
96-12-8	1,2-Dibromo-3-chloropropane	3200	310		50
106-93-4	1,2-Dibromoethane	3100	62	Z	50
95-50-1	1,2-Dichlorobenzene	3100	62		50
107-06-2	1,2-Dichloroethane	3300	62		50
78-87-5	1,2-Dichloropropane	3100	62		50
108-67-8	1,3,5-Trimethylbenzene	3200	62		50
541-73-1	1,3-Dichlorobenzene	3200	62		50
106-46-7	1,4-Dichlorobenzene	3100	62		50
78-93-3	2-Butanone (MEK)	3000	310	5	50
591-78-6	2-Hexanone	3300	310		50
91-57-6	2-Methylnaphthalene	3200	310	X	50
67-64-1	2-Propanone (acetone)	2000	1200	5	50
108-10-1	4-Methyl-2-pentanone (MIBK)	3400	310		50
107-13-1	Acrylonitrile	3800	310	Z	50
71-43-2	Benzene	3200	62		50
108-86-1	Bromobenzene	3100	62		50
74-97-5	Bromochloromethane	3500	62		50
75-27-4	Bromodichloromethane	3100	62		50
75-25-2	Bromoform	2400	62		50
74-83-9	Bromomethane	2300	250		50
75-15-0	Carbon disulfide	2900	62		50
56-23-5	Carbon tetrachloride	2700	62		50
108-90-7	Chlorobenzene	3000	62		50
75-00-3	Chloroethane	2700	310		50
67-66-3	Chloroform	3300	62		50
74-87-3	Chloromethane	3200	310		50
156-59-2	cis-1,2-Dichloroethylene	3000	62		50

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mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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Sample Number: AB73252 SB-03 MS

Volatile Compounds

Analytical Method: 8260 Date Tested: 05/07/2011 Analyst: SJR
Extraction Method: 5035 Extraction Date: 05/02/2011 Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
10061-01-5	cis-1,3-Dichloropropylene	3100	62		50
110-82-7	Cyclohexane	3000	310		50
124-48-1	Dibromochloromethane	2600	62	3	50
74-95-3	Dibromomethane	3300	62		50
75-71-8	Dichlorodifluoromethane	3000	310		50
60-29-7	Diethyl ether	3300	250		50
108-20-3	Diisopropyl Ether	3400	310		50
100-41-4	Ethylbenzene	3000	62		50
637-92-3	Ethyltertiarybutylether	3400	310		50
67-72-1	Hexachloroethane	2700	310	7	50
98-82-8	Isopropylbenzene	3200	62		50
108383,106423	m & p - Xylene	6100	120		50
74-88-4	Methyl iodide	2900	62		50
75-09-2	Methylene chloride	3000	120		50
1634-04-4	Methyltertiarybutylether	3300	62		50
91-20-3	Naphthalene	3500	310	X	50
104-51-8	n-Butylbenzene	3100	62		50
103-65-1	n-Propylbenzene	3200	62		50
95-47-6	o-Xylene	3000	62		50
99-87-6	p-Isopropyl toluene	3100	62		50
135-98-8	sec-Butylbenzene	3100	62		50
100-42-5	Styrene	3200	62		50
98-06-6	tert-Butylbenzene	3000	62		50
75-65-0	tertiary Butyl Alcohol	14000	3100		50
994-05-8	tertiary Amyl methyl ether	3200	310		50
127-18-4	Tetrachloroethylene	2900	62		50
109-99-9	Tetrahydrofuran	3600	310		50
108-88-3	Toluene	3100	62		50
156-60-5	trans-1,2-Dichloroethylene	3200	62		50
10061-02-6	trans-1,3-Dichloropropylene	2800	62		50
110-57-6	trans-1,4-Dichloro-2-butene	4000	310	4,7Z	50
79-01-6	Trichloroethylene	3200	62		50
75-69-4	Trichlorofluoromethane	2600	62		50
75-01-4	Vinyl chloride	3200	62	Z	50

Sample is a matrix spike.

Compounds spiked at 3110 ug/Kg, except tertiary butyl alcohol spiked at 15600 ug/Kg & m&p-xylene spiked at 6220 ug/Kg.

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
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Sample Number: AB73252 SB-03 MS

CAS#	Analyte Name	Result	Unit	RL	Qualifier	Date Tested	Method	Analyst
57-12-5	Cyanide - Sediment	2	mg/Kg dry	0.1		05/11/2011	ASTM D 751	MB
	Cyanide-Extraction	Completed				05/10/2011	9013	MB
	Digest Mercury - Sediment	Completed				05/11/2011	7471	TS
7439-97-6	Mercury - Sediment	44	mg/Kg dry	0.05		05/12/2011	7471	TS
7440-36-0	Antimony - Sediment	48	mg/Kg dry	0.3		05/21/2011	6020	KS
7440-38-2	Arsenic - Sediment	110	mg/Kg dry	0.5		05/21/2011	6020	KS
7440-39-3	Barium - Sediment	120	mg/Kg dry	1		05/21/2011	6020	KS
7440-41-7	Beryllium - Sediment	96	mg/Kg dry	0.2		05/21/2011	6020	KS
7440-43-9	Cadmium - Sediment	10	mg/Kg dry	0.2		05/21/2011	6020	KS
7440-47-3	Chromium - Sediment	110	mg/Kg dry	2		05/21/2011	6020	KS
7440-48-4	Cobalt - Sediment	110	mg/Kg dry	.5		05/21/2011	6020	KS
7440-50-8	Copper - Sediment	110	mg/Kg dry	1		05/21/2011	6020	KS
	Digest Antimony - Sediment	Completed				05/20/2011	3050	WN
	Digest Metals - Sediment	Completed				05/18/2011	3050	WN
7439-89-6	Iron - Sediment	8700	mg/Kg dry	50	D	05/25/2011	6010	WN
7439-92-1	Lead - Sediment	100	mg/Kg dry	1		05/21/2011	6020	KS
7439-96-5	Manganese - Sediment	380	mg/Kg dry	1	4	05/21/2011	6020	KS
7439-98-7	Molybdenum - Sediment	110	mg/Kg dry	1		05/21/2011	6020	KS
7440-02-0	Nickel - Sediment	110	mg/Kg dry	1		05/21/2011	6020	KS
7782-49-2	Selenium - Sediment	96	mg/Kg dry	0.2		05/21/2011	6020	KS
7440-22-4	Silver - Sediment	9.6	mg/Kg dry	0.1		05/21/2011	6020	KS
7440-28-0	Thallium - Sediment	93	mg/Kg dry	0.5		05/21/2011	6020	KS
7440-62-2	Vanadium - Sediment	110	mg/Kg dry	1		05/21/2011	6020	KS
7440-66-6	Zinc - Sediment	120	mg/Kg dry	1		05/21/2011	6020	KS
	% Total Solids	92.1	%	0.1		05/14/2011	2540B SM	KS
	Drying and Grinding - Sediment	COMPLETE				05/14/2011		KS
	Gel Permeation Cleanup-Pesticide/PCl	Completed				05/09/2011	3640	DT
	Gel Permeation Cleanup-SVOC Analy	Completed				05/05/2011	3640	DT

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Sample Number: AB73253 SB-03 MSD

Pesticides and PCBs

Analytical Method: 8081,8082 Date Tested: 05/11/2011 Analyst: MF
Extraction Method: 3545 Extraction Date: 05/03/2011 Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
SURROGATE	#Decachlorobiphenyl#	55.3			
SURROGATE	#Tetrachloro-m-xylene#	71.7			
72-54-8	4,4'-DDD	93	22		1.0
72-55-9	4,4'-DDE	94	22		1.0
50-29-3	4,4'-DDT	85	22		1.0
319-84-6	a-BHC	89	11		1.0
5103-71-9	a-Chlordane	91	22		1.0
309-00-2	Aldrin	90	22		1.0
12674-11-2	Aroclor 1016	Not Detected	110		1.0
11104-28-2	Aroclor 1221	Not Detected	110		1.0
11141-16-5	Aroclor 1232	Not Detected	110		1.0
53469-21-9	Aroclor 1242	Not Detected	110		1.0
12672-29-6	Aroclor 1248	Not Detected	110		1.0
11097-69-1	Aroclor 1254	Not Detected	110		1.0
11096-82-5	Aroclor 1260	Not Detected	110		1.0
37324-23-5	Aroclor 1262	Not Detected	110		1.0
11100-14-4	Aroclor 1268	Not Detected	110		1.0
319-85-7	b-BHC	93	22		1.0
319-86-8	d-BHC	91	22		1.0
60-57-1	Dieldrin	90	22		1.0
959-98-8	Endosulfan I	79	22		1.0
33213-65-9	Endosulfan II	81	22		1.0
1031-07-8	Endosulfan sulfate	91	22		1.0
72-20-8	Endrin	95	22		1.0
7421-93-4	Endrin aldehyde	59	22		1.0
53494-70-5	Endrin ketone	91	22		1.0
58-89-9	g-BHC (Lindane)	90	22		1.0
5103-74-2	g-Chlordane	92	22		1.0
76-44-8	Heptachlor	86	22		1.0
1024-57-3	Heptachlor epoxide	91	22		1.0
87-82-1	Hexabromobenzene	70	110	T	1.0
72-43-5	Methoxychlor	85	54		1.0
2385-85-5	Mirex	88	54		1.0
59080-40-9	PBB (BP-6)	Not Detected	270		1.0
8001-35-2	Toxaphene	Not Detected	180		1.0

Sample is a matrix spike.

Pesticides are spiked at 100 ug/Kg wet weight. BP-6 and Toxaphene not spiked.

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RL : Reporting Limit
ND : Not Detected

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ug / Kg : microgram / kilogram (ppb)
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Sample Number: AB73253 SB-03 MSD

Base Neutral Acid Compounds

Analytical Method: 8270 Date Tested: 05/12/2011 Analyst: SMH
Extraction Method: 3545 Extraction Date: 05/05/2011 Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
SURROGATE	#2-Fluorobiphenyl#	62.2			
SURROGATE	#2,4,6-Tribromophenol#	66.8			
SURROGATE	#2-Fluorophenol#	56.3			
SURROGATE	#Nitrobenzene - D5#	56.4			
SURROGATE	#Phenol - D6#	46.1			
SURROGATE	#p-Terphenyl-d14#	64.3			
120-82-1	1,2,4-Trichlorobenzene	1200	220		1.0
95-95-4	2,4,5-Trichlorophenol	3400	360		1.0
88-06-2	2,4,6-Trichlorophenol	3100	360		1.0
120-83-2	2,4-Dichlorophenol	2700	360		1.0
105-67-9	2,4-Dimethylphenol	2500	360		1.0
51-28-5	2,4-Dinitrophenol	1800	1800	Z	1.0
121-14-2	2,4-Dinitrotoluene	1600	270		1.0
606-20-2	2,6-Dinitrotoluene	1500	270		1.0
91-58-7	2-Chloronaphthalene	1300	220		1.0
95-57-8	2-Chlorophenol	2700	360		1.0
534-52-1	2-Methyl-4,6-dinitrophenol	2200	1800	Z	1.0
91-57-6	2-Methylnaphthalene	1500	270		1.0
95-48-7	2-Methylphenol (o-Cresol)	2900	360		1.0
88-74-4	2-Nitroaniline	1500	540		1.0
88-75-5	2-Nitrophenol	2700	360		1.0
108394,106445	3 & 4-Methylphenol	2800	720		1.0
99-09-2	3-Nitroaniline	1700	540		1.0
101-55-3	4-Bromophenyl phenyl ether	1500	220		1.0
59-50-7	4-Chloro-3-methylphenol	3300	220		1.0
7005-72-3	4-Chlorodiphenylether	1500	110		1.0
100-01-6	4-Nitroaniline	1500	540		1.0
100-02-7	4-Nitrophenol	2700	1800	Z	1.0
83-32-9	Acenaphthene	1500	110		1.0
208-96-8	Acenaphthylene	1600	110		1.0
120-12-7	Anthracene	1600	110		1.0
103-33-3	Azobenzene	1500	220		1.0
56-55-3	Benzo[a]anthracene	1500	110		1.0
50-32-8	Benzo[a]pyrene	1500	220		1.0
205-99-2	Benzo[b]fluoranthene	1600	220		1.0
191-24-2	Benzo[ghi]perylene	890	220		1.0
207-08-9	Benzo[k]fluoranthene	1600	220		1.0
100-51-6	Benzyl Alcohol	2500	2700	T	1.0
111-91-1	Bis(2-chloroethoxy)methane	1300	220		1.0
111-44-4	Bis(2-chloroethyl)ether	1200	110		1.0

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Sample Number: AB73253 SB-03 MSD

Base Neutral Acid Compounds

Analytical Method: 8270 Date Tested: 05/12/2011 Analyst: SMH
Extraction Method: 3545 Extraction Date: 05/05/2011 Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
108-60-1	Bis(2-chloroisopropyl)ether	1400	110		1.0
117-81-7	Bis(2-ethylhexyl)phthalate	1500	270		1.0
85-68-7	Butyl benzyl phthalate	1500	270		1.0
86-74-8	Carbazole	1400	270		1.0
218-01-9	Chrysene	1600	110		1.0
53-70-3	Dibenz[a,h]anthracene	1300	220		1.0
132-64-9	Dibenzofuran	1500	270		1.0
84-66-2	Diethylphthalate	1600	270		1.0
131-11-3	Dimethyl phthalate	1500	270		1.0
84-74-2	Di-n-butyl phthalate	1500	270		1.0
117-84-0	Di-n-octyl phthalate	1500	270		1.0
206-44-0	Fluoranthene	1500	110		1.0
86-73-7	Fluorene	1700	110		1.0
118-74-1	Hexachlorobenzene	1400	220		1.0
87-68-3	Hexachlorobutadiene	1300	110	Z	1.0
77-47-4	Hexachlorocyclopentadiene	990	1100	TZ	1.0
67-72-1	Hexachloroethane	1200	110		1.0
193-39-5	Indeno(1,2,3-c,d)pyrene	1300	220		1.0
78-59-1	Isophorone	1300	110		1.0
91-20-3	Naphthalene	1300	110		1.0
98-95-3	Nitrobenzene	1300	220		1.0
67-75-9	N-Nitrosodimethylamine	1100	270		1.0
621-64-7	N-Nitrosodi-n-propylamine	1400	220		1.0
86-30-6	N-Nitrosodiphenylamine	1500	220		1.0
87-86-5	Pentachlorophenol	2200	1800	Z=800	1.0
85-01-8	Phenanthrene	1500	110		1.0
108-95-2	Phenol	2800	360		1.0
129-00-0	Pyrene	1500	110		1.0

Sample is a matrix spike.

Phenol compounds are spiked at 4000 ug/Kg wet weight.

Base Neutral compounds are spiked at 2000 ug/Kg wet weight.

Volatile Compounds

Analytical Method: 8260 Date Tested: 05/07/2011 Analyst: SJR
Extraction Method: 5035 Extraction Date: 05/02/2011 Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
	##Weight of sample(grams)	9.38			
SURROGATE	#Bromofluorobenzene#	101			

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

Laboratory Contacts
Inorganic Unit Mgr: Sandy Gregg
Organic Unit Mgr: Carol Smith
Systems Mgmt Unit: George Kristzian



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P. O. Box 30270
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TEL: (517) 335-9800
FAX: (517) 335-9600

Sample Number: AB73253 SB-03 MSD

Volatile Compounds

Analytical Method: 8260
Extraction Method: 5035

Date Tested: 05/07/2011
Extraction Date: 05/02/2011

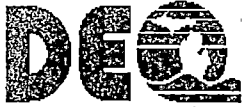
Analyst: SJR
Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
SURROGATE	#Dibromofluoromethane#	128			
SURROGATE	#Toluene-d8#	120			
630-20-6	1,1,1,2-Tetrachloroethane	2900	62		50
71-55-6	1,1,1-Trichloroethane	3000	62		50
79-34-5	1,1,2,2-Tetrachloroethane	3500	62		50
79-00-5	1,1,2-Trichloroethane	3400	62		50
75-34-3	1,1-Dichloroethane	3300	62		50
75-35-4	1,1-Dichloroethylene	2900	62		50
87-61-6	1,2,3-Trichlorobenzene	3800	310		50
96-18-4	1,2,3-Trichloropropane	4000	62	4	50
526-73-8	1,2,3-Trimethylbenzene	3400	62		50
120-82-1	1,2,4-Trichlorobenzene	3500	310		50
95-63-6	1,2,4-Trimethylbenzene	3400	62		50
96-12-8	1,2-Dibromo-3-chloropropane	3400	310		50
106-93-4	1,2-Dibromoethane	3300	62	Z	50
95-50-1	1,2-Dichlorobenzene	3500	62		50
107-06-2	1,2-Dichloroethane	3200	62		50
78-87-5	1,2-Dichloropropane	3100	62		50
108-67-8	1,3,5-Trimethylbenzene	3400	62		50
541-73-1	1,3-Dichlorobenzene	3300	62		50
106-46-7	1,4-Dichlorobenzene	3200	62		50
78-93-3	2-Butanone (MEK)	2800	310	5	50
591-78-6	2-Hexanone	3200	310		50
91-57-6	2-Methylnaphthalene	3900	310	X	50
67-64-1	2-Propanone (acetone)	2100	1200	5	50
108-10-1	4-Methyl-2-pentanone (MIBK)	3500	310		50
107-13-1	Acrylonitrile	3700	310	Z	50
71-43-2	Benzene	3100	62		50
108-86-1	Bromobenzene	3300	62		50
74-97-5	Bromochloromethane	3300	62		50
75-27-4	Bromodichloromethane	3100	62		50
75-25-2	Bromoform	2600	62		50
74-83-9	Bromomethane	2500	250		50
75-15-0	Carbon disulfide	3000	62		50
56-23-5	Carbon tetrachloride	2700	62		50
108-90-7	Chlorobenzene	3100	62		50
75-00-3	Chloroethane	2800	310		50
67-66-3	Chloroform	3400	62		50
74-87-3	Chloromethane	3200	310		50
56-59-2	cis-1,2-Dichloroethylene	3200	62		50

CAS# : Chemical Abstract Service Registry Number
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ND : Not Detected

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mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
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Sample Number: AB73253 SB-03 MSD

Volatile Compounds

Analytical Method: 8260 Date Tested: 05/07/2011 Analyst: SJR
Extraction Method: 5035 Extraction Date: 05/02/2011 Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
10061-01-5	cis-1,3-Dichloropropylene	3100	62		50
110-82-7	Cyclohexane	3000	310		50
124-48-1	Dibromochloromethane	2700	62		50
74-95-3	Dibromomethane	3400	62		50
75-71-8	Dichlorodifluoromethane	3000	310		50
60-29-7	Diethyl ether	3200	250		50
108-20-3	Diisopropyl Ether	3400	310		50
100-41-4	Ethylbenzene	3200	62		50
637-92-3	Ethyltertiarybutylether	3400	310		50
67-72-1	Hexachloroethane	3100	310	7	50
98-82-8	Isopropylbenzene	3300	62		50
108383,106423	m & p - Xylene	6500	120		50
74-88-4	Methyl iodide	3000	62		50
75-09-2	Methylene chloride	3100	120		50
1634-04-4	Methyltertiarybutylether	3300	62		50
91-20-3	Naphthalene	3800	310	X	50
104-51-8	n-Butylbenzene	3300	62		50
103-65-1	n-Propylbenzene	3400	62		50
95-47-6	o-Xylene	3200	62		50
99-87-6	p-Isopropyl toluene	3200	62		50
135-98-8	sec-Butylbenzene	3300	62		50
100-42-5	Styrene	3400	62		50
98-06-6	tert-Butylbenzene	3200	62		50
75-65-0	tertiary Butyl Alcohol	15000	3100		50
994-05-8	tertiary Amyl methyl ether	3200	310		50
127-18-4	Tetrachloroethylene	3100	62		50
109-99-9	Tetrahydrofuran	3400	310		50
108-88-3	Toluene	3100	62		50
156-60-5	trans-1,2-Dichloroethylene	3300	62		50
10061-02-6	trans-1,3-Dichloropropylene	2800	62		50
110-57-6	trans-1,4-Dichloro-2-butene	3300	310	7Z	50
79-01-6	Trichloroethylene	3200	62		50
75-69-4	Trichlorofluoromethane	2800	62		50
75-01-4	Vinyl chloride	3300	62	Z *	50

Sample is a matrix spike duplicate.

Compounds spiked at 3110 ug/Kg, except tertiary butyl alcohol spiked at 15600 ug/Kg & m&p-xylene spiked at 6220 ug/Kg.

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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Sample Number: AB73253 SB-03 MSD

CAS#	Analyte Name	Result	Unit	RL	Qualifier	Date Tested	Method	Analyst
57-12-5	Cyanide - Sediment	2	mg/Kg dry	0.1		05/11/2011	ASTMD 751	MB
	Cyanide Extraction	Completed				05/10/2011	9013	MB
	Digest Mercury - Sediment	Completed				05/11/2011	7471	TS
7439-97-6	Mercury - Sediment	44	mg/Kg dry	0.05		05/12/2011	7471	TS
7440-36-0	Antimony - Sediment	48	mg/Kg dry	0.3		05/21/2011	6020	KS
7440-38-2	Arsenic - Sediment	110	mg/Kg dry	0.5		05/21/2011	6020	KS
7440-39-3	Barium - Sediment	120	mg/Kg dry	1		05/21/2011	6020	KS
7440-41-7	Beryllium - Sediment	93	mg/Kg dry	0.2		05/21/2011	6020	KS
7440-43-9	Cadmium - Sediment	10	mg/Kg dry	0.2		05/21/2011	6020	KS
7440-47-3	Chromium - Sediment	110	mg/Kg dry	2		05/21/2011	6020	KS
7440-48-4	Cobalt - Sediment	100	mg/Kg dry	.5		05/21/2011	6020	KS
7440-50-8	Copper - Sediment	110	mg/Kg dry	1		05/21/2011	6020	KS
	Digest Antimony - Sediment	Completed				05/20/2011	3050	WN
	Digest Metals - Sediment	Completed				05/18/2011	3050	WN
7439-89-6	Iron - Sediment	9800	mg/Kg dry	50	D	05/25/2011	6010	WN
7439-92-1	Lead - Sediment	110	mg/Kg dry	1		05/21/2011	6020	KS
7439-96-5	Manganese - Sediment	400	mg/Kg dry	1	4	05/21/2011	6020	KS
7439-98-7	Molybdenum - Sediment	110	mg/Kg dry	1		05/21/2011	6020	KS
7440-02-0	Nickel - Sediment	110	mg/Kg dry	1		05/21/2011	6020	KS
7782-49-2	Selenium - Sediment	95	mg/Kg dry	0.2		05/21/2011	6020	KS
7440-22-4	Silver - Sediment	9.4	mg/Kg dry	0.1		05/21/2011	6020	KS
7440-28-0	Thallium - Sediment	91	mg/Kg dry	0.5		05/21/2011	6020	KS
7440-62-2	Vanadium - Sediment	110	mg/Kg dry	1		05/21/2011	6020	KS
7440-66-6	Zinc - Sediment	120	mg/Kg dry	1		05/21/2011	6020	KS
	% Total Solids	92.1	%	0.1		05/14/2011	2540B SM	KS
	Drying and Grinding - Sediment	COMPLETE				05/14/2011		KS
	Gel Permeation Cleanup-Pesticide/PCl	Completed				05/09/2011	3640	DT
	Gel Permeation Cleanup-SVOC Analy	Completed				05/05/2011	3640	DT

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Sample Number: AB73254 SB-04

Pesticides and PCBs

Analytical Method: 8081,8082
Extraction Method: 3545

Date Tested: 05/11/2011
Extraction Date: 05/03/2011

Analyst: MF
Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
SURROGATE	#Decachlorobiphenyl#	62.1			
SURROGATE	#Tetrachloro-m-xylene#	77.1			
72-54-8	4,4'-DDD	Not Detected	23		1.0
72-55-9	4,4'-DBDE	Not Detected	23		1.0
50-29-3	4,4'-DDT	Not Detected	23		1.0
519-84-6	a-BHC	Not Detected	11		1.0
5103-71-9	a-Chlordane	Not Detected	23		1.0
309-00-2	Aldrin	Not Detected	23		1.0
12674-11-2	Aroclor 1016	Not Detected	110		1.0
11104-28-2	Aroclor 1221	Not Detected	110		1.0
11141-16-5	Aroclor 1232	Not Detected	110		1.0
53469-21-9	Aroclor 1242	Not Detected	110		1.0
12672-29-6	Aroclor 1248	Not Detected	110		1.0
11097-69-1	Aroclor 1254	Not Detected	110		1.0
11096-82-5	Aroclor 1260	Not Detected	110		1.0
57324-23-5	Aroclor 1262	Not Detected	110		1.0
11100-14-4	Aroclor 1268	Not Detected	110		1.0
519-85-7	b-BHC	Not Detected	23		1.0
319-86-8	d-BHC	Not Detected	23		1.0
60-57-1	Dieldrin	Not Detected	23		1.0
959-98-8	Endosulfan I	Not Detected	23		1.0
33213-65-9	Endosulfan II	Not Detected	23		1.0
1031-07-8	Endosulfan sulfate	Not Detected	23		1.0
72-20-8	Endrin	Not Detected	23		1.0
7421-93-4	Endrin aldehyde	Not Detected	23		1.0
53494-70-5	Endrin ketone	Not Detected	23		1.0
58-89-9	g-BHC (Lindane)	Not Detected	23		1.0
5103-74-2	g-Chlordane	Not Detected	23		1.0
76-44-8	Heptachlor	Not Detected	23		1.0
1024-57-3	Heptachlor-epoxide	Not Detected	23		1.0
87-82-1	Hexabromobenzene	Not Detected	110		1.0
72-43-5	Methoxychlor	Not Detected	57		1.0
2385-85-5	Mirex	Not Detected	57		1.0
59080-40-9	PBB (BP-6)	Not Detected	280		1.0
8001-35-2	Toxaphene	Not Detected	190		1.0

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Sample Number: AB73254 SB-04

Base Neutral Acid Compounds

Analytical Method: 8270
Extraction Method: 3545

Date Tested: 05/11/2011
Extraction Date: 05/02/2011

Analyst: SMH
Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
SURROGATE	#2-Fluorobiphenyl#	67.7			
SURROGATE	#2,4,6-Tribromophenol#	72.3			
SURROGATE	#2-Fluorophenol#	63.1			
SURROGATE	#Nitrobenzene - D5#	65.7			
SURROGATE	#Phenol - D6#	73.2			
SURROGATE	#p-Terphenyl-d14#	83.7			
120-82-1	1,2,4-Trichlorobenzene	Not Detected	450		2.0
95-95-4	2,4,5-Trichlorophenol	Not Detected	750		2.0
88-06-2	2,4,6-Trichlorophenol	Not Detected	750		2.0
120-83-2	2,4-Dichlorophenol	Not Detected	750		2.0
105-67-9	2,4-Dimethylphenol	Not Detected	750		2.0
51-28-5	2,4-Dinitrophenol	Not Detected	3800	Z	2.0
121-14-2	2,4-Dinitrotoluene	Not Detected	570		2.0
606-20-2	2,6-Dinitrotoluene	Not Detected	570		2.0
91-58-7	2-Chloronaphthalene	Not Detected	450		2.0
95-57-8	2-Chlorophenol	Not Detected	750		2.0
534-52-1	2-Methyl-4,6-dinitrophenol	Not Detected	3800	Z	2.0
91-57-6	2-Methylnaphthalene	Not Detected	570		2.0
95-48-7	2-Methylphenol (o-Cresol)	Not Detected	750		2.0
88-74-4	2-Nitroaniline	Not Detected	1100		2.0
88-75-5	2-Nitrophenol	Not Detected	750		2.0
108394,106445	3 & 4-Methylphenol	Not Detected	1500		2.0
99-09-2	3-Nitroaniline	Not Detected	1100		2.0
101-55-3	4-Bromophenyl phenyl ether	Not Detected	450		2.0
59-50-7	4-Chloro-3-methyl-phenol	Not Detected	450		2.0
7005-72-3	4-Chlorodiphenylether	Not Detected	230		2.0
100-01-6	4-Nitroaniline	Not Detected	1100	S	2.0
100-02-7	4-Nitrophenol	Not Detected	3800	7Z	2.0
83-32-9	Acenaphthene	Not Detected	230		2.0
208-96-8	Acenaphthylene	Not Detected	230		2.0
120-12-7	Anthracene	Not Detected	230		2.0
103-33-3	Azobenzene	Not Detected	450		2.0
56-55-3	Benzo[a]anthracene	Not Detected	230		2.0
50-32-8	Benzo[a]pyrene	Not Detected	450		2.0
205-99-2	Benzo[b]fluoranthene	Not Detected	450		2.0
191-24-2	Benzo[g,h,i]perylene	Not Detected	450		2.0
207-08-9	Benzo[k]fluoranthene	Not Detected	450		2.0
100-51-6	Benzyl Alcohol	Not Detected	5700		2.0
111-91-1	Bis(2-chloroethoxy)methane	Not Detected	450		2.0
111-44-4	Bis(2-chloroethyl)ether	Not Detected	230		2.0

CAS# : Chemical Abstract Service Registry Number
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Sample Number: AB73254 SB-04

Base Neutral Acid Compounds

Analytical Method: 8270 Date Tested: 05/11/2011 Analyst: SMH
Extraction Method: 3545 Extraction Date: 05/02/2011 Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
108-60-1	Bis(2-chloroisopropyl)ether	Not Detected	230		2.0
117-81-7	Bis(2-ethylhexyl)phthalate	Not Detected	570		2.0
85-68-7	Butyl benzyl phthalate	Not Detected	570		2.0
86-74-8	Carbazole	Not Detected	570		2.0
218-01-9	Chrysene	Not Detected	230		2.0
53-70-3	Dibenz[a,h]anthracene	Not Detected	450		2.0
132-64-9	Dibenzofuran	Not Detected	570		2.0
84-66-2	Diethylphthalate	Not Detected	570		2.0
131-11-3	Dimethyl phthalate	Not Detected	570		2.0
84-74-2	Di-n-butyl phthalate	Not Detected	570		2.0
117-84-0	Di-n-octyl phthalate	Not Detected	570		2.0
206-44-0	Fluoranthene	Not Detected	230		2.0
86-73-7	Fluorene	Not Detected	230		2.0
118-74-1	Hexachlorobenzene	Not Detected	450		2.0
87-68-3	Hexachlorobutadiene	Not Detected	230	Z	2.0
77-47-4	Hexachlorocyclopentadiene	Not Detected	2300	Z	2.0
67-72-1	Hexachloroethane	Not Detected	230		2.0
193-39-5	Indeno(1,2,3-c,d)pyrene	Not Detected	450		2.0
78-59-1	Isophorone	Not Detected	230		2.0
91-20-3	Naphthalene	Not Detected	230		2.0
98-95-3	Nitrobenzene	Not Detected	450		2.0
67-75-9	N-Nitrosodimethylamine	Not Detected	570		2.0
621-64-7	N-Nitrosodi-n-propylamine	Not Detected	450		2.0
86-30-6	N-Nitrosodiphenylamine	Not Detected	450		2.0
87-86-5	Pentachlorophenol	Not Detected	3800	Z=800	2.0
85-01-8	Phenanthrene	Not Detected	230		2.0
108-95-2	Phenol	Not Detected	750		2.0
129-00-0	Pyrene	Not Detected	230		2.0

RLs raised due to matrix.

Volatile Compounds

Analytical Method: 8260 Date Tested: 05/07/2011 Analyst: SJR
Extraction Method: 5035 Extraction Date: 05/02/2011 Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
	#Weight of sample(grams)	9.80			
SURROGATE	#Bromofluorobenzene#	116			
SURROGATE	#Dibromofluoromethane#	127			
SURROGATE	#Toluene-d8#	127			

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
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ug / L : microgram / liter (ppb)
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Sample Number: AB73254 SB-04

Volatile Compounds

Analytical Method: 8260
Extraction Method: 5035

Date Tested: 05/07/2011
Extraction Date: 05/02/2011

Analyst: SJR
Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
630-20-6	1,1,1,2-Tetrachloroethane	Not Detected	64		50
71-55-6	1,1,1-Trichloroethane	Not Detected	64		50
79-34-5	1,1,2,2-Tetrachloroethane	Not Detected	64		50
79-00-5	1,1,2-Trichloroethane	Not Detected	64		50
75-34-3	1,1-Dichloroethane	Not Detected	64		50
75-35-4	1,1-Dichloroethylene	Not Detected	64		50
87-61-6	1,2,3-Trichlorobenzene	Not Detected	320		50
96-18-4	1,2,3-Trichloropropane	Not Detected	64		50
526-73-8	1,2,3-Trimethylbenzene	Not Detected	64		50
120-32-1	1,2,4-Trichlorobenzene	Not Detected	320		50
95-63-6	1,2,4-Trimethylbenzene	Not Detected	64		50
96-12-8	1,2-Dibromo-3-chloropropane	Not Detected	320		50
106-93-4	1,2-Dibromoethane	Not Detected	64	Z	50
95-50-1	1,2-Dichlorobenzene	Not Detected	64		50
107-06-2	1,2-Dichloroethane	Not Detected	64		50
78-87-5	1,2-Dichloropropane	Not Detected	64		50
108-67-8	1,3,5-Trimethylbenzene	Not Detected	64		50
541-73-1	1,3-Dichlorobenzene	Not Detected	64		50
106-46-7	1,4-Dichlorobenzene	Not Detected	64		50
78-93-3	2-Butanone (MEK)	Not Detected	320	5	50
591-78-6	2-Hexanone	Not Detected	320		50
91-57-6	2-Methylnaphthalene	Not Detected	320	X	50
67-64-1	2-Propanone (acetone)	Not Detected	1300	5	50
108-10-1	4-Methyl-2-pentanone (MIBK)	Not Detected	320		50
107-13-1	Acrylonitrile	Not Detected	320	Z	50
71-43-2	Benzene	Not Detected	64		50
108-86-1	Bromobenzene	Not Detected	64		50
74-97-5	Bromochloromethane	Not Detected	64		50
75-27-4	Bromodichloromethane	Not Detected	64		50
75-25-2	Bromoform	Not Detected	64		50
74-83-9	Bromomethane	Not Detected	260		50
75-15-0	Carbon disulfide	Not Detected	64		50
56-23-5	Carbon tetrachloride	Not Detected	64		50
108-90-7	Chlorobenzene	Not Detected	64		50
75-00-3	Chloroethane	Not Detected	320		50
67-66-3	Chloroform	Not Detected	64		50
74-87-3	Chloromethane	Not Detected	320		50
156-59-2	cis-1,2-Dichloroethylene	Not Detected	64		50
10061-01-5	cis-1,3-Dichloropropylene	Not Detected	64		50
110-82-7	Cyclohexane	Not Detected	320		50

CAS# : Chemical Abstract Service Registry Number
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ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
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Sample Number: AB73254 SB-04

Volatile Compounds

Analytical Method: 8260 Date Tested: 05/07/2011 Analyst: SJR
Extraction Method: 5035 Extraction Date: 05/02/2011 Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
74-48-1	Dibromochloromethane	Not Detected	64		50
74-95-3	Dibromomethane	Not Detected	64		50
75-71-8	Dichlorodifluoromethane	Not Detected	320		50
60-29-7	Diethyl ether	Not Detected	260		50
108-20-3	Diisopropyl Ether	Not Detected	320		50
100-41-4	Ethylbenzene	Not Detected	64		50
637-92-3	Ethyltertiarybutylether	Not Detected	320		50
67-72-1	Hexachloroethane	Not Detected	320	7	50
98-82-8	Isopropylbenzene	Not Detected	64		50
108383,106423	m & p - Xylene	Not Detected	130		50
74-88-4	Methyl iodide	Not Detected	64		50
75-09-2	Methylene chloride	Not Detected	130		50
1634-04-4	Methyltertiarybutylether	Not Detected	64		50
91-20-3	Naphthalene	Not Detected	320	X	50
104-51-8	n-Butylbenzene	Not Detected	64		50
103-65-1	n-Propylbenzene	Not Detected	64		50
95-47-6	o-Xylene	Not Detected	64		50
99-87-6	p-Isopropyl toluene	Not Detected	64		50
135-98-8	sec-Butylbenzene	Not Detected	64		50
100-42-5	Styrene	Not Detected	64		50
98-06-6	tert-Butylbenzene	Not Detected	64		50
75-65-0	tertiary Butyl Alcohol	Not Detected	3200		50
994-05-8	tertiary Amyl methyl ether	Not Detected	320		50
127-18-4	Tetrachloroethylene	Not Detected	64		50
109-99-9	Tetrahydrofuran	Not Detected	320		50
108-88-3	Toluene	Not Detected	64		50
156-60-5	trans-1,2-Dichloroethylene	Not Detected	64		50
10061-02-6	trans-1,3-Dichloropropylene	Not Detected	64		50
110-57-6	trans-1,4-Dichloro-2-butene	Not Detected	320	7Z	50
79-01-6	Trichloroethylene	Not Detected	64		50
75-69-4	Trichlorofluoromethane	Not Detected	64		50
75-01-4	Vinyl chloride	Not Detected	64	Z	50

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ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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Sample Number: AB73254 SB-04

CAS#	Analyte Name	Result	Unit	RL	Qualifier	Date Tested	Method	Analyst
57-12-5	Cyanide - Sediment	ND	mg/Kg dry	0.1		05/11/2011	ASTM D 751	MB
	Cyanide-Extraction	Completed				05/10/2011	9013	MB
	Digest Mercury - Sediment	Completed				05/11/2011	7471	TS
7439-97-6	Mercury - Sediment	ND	mg/Kg dry	0.05		05/12/2011	7471	TS
7440-36-0	Antimony - Sediment	0.37	mg/Kg dry	0.3		05/21/2011	6020	KS
7440-38-2	Arsenic - Sediment	7.2	mg/Kg dry	0.5		05/18/2011	6020	KS
7440-39-3	Barium - Sediment	42	mg/Kg dry	1		05/18/2011	6020	KS
7440-41-7	Beryllium - Sediment	ND	mg/Kg dry	0.2		05/18/2011	6020	KS
7440-43-9	Cadmium - Sediment	ND	mg/Kg dry	0.2		05/18/2011	6020	KS
7440-47-3	Chromium - Sediment	8.3	mg/Kg dry	2		05/18/2011	6020	KS
7440-48-4	Cobalt - Sediment	4.1	mg/Kg dry	.5		05/18/2011	6020	KS
7440-50-8	Copper - Sediment	10	mg/Kg dry	1		05/18/2011	6020	KS
	Digest Antimony - Sediment	Completed				05/20/2011	3050	WN
	Digest Metals - Sediment	Completed				05/17/2011	3050	WN
7439-89-6	Iron - Sediment	12000	mg/Kg dry	50	D	05/25/2011	6010	WN
7439-92-1	Lead - Sediment	4.5	mg/Kg dry	1	M 1.0	05/18/2011	6020	KS
7439-96-5	Manganese - Sediment	530	mg/Kg dry	1		05/18/2011	6020	KS
7439-98-7	Molybdenum - Sediment	ND	mg/Kg dry	1		05/18/2011	6020	KS
7440-02-0	Nickel - Sediment	11	mg/Kg dry	1		05/18/2011	6020	KS
7782-49-2	Selenium - Sediment	ND	mg/Kg dry	0.2		05/18/2011	6020	KS
7440-22-4	Silver - Sediment	ND	mg/Kg dry	0.1		05/18/2011	6020	KS
7440-28-0	Thallium - Sediment	ND	mg/Kg dry	0.5		05/18/2011	6020	KS
7440-62-2	Vanadium - Sediment	12	mg/Kg dry	1		05/18/2011	6020	KS
7440-66-6	Zinc - Sediment	24	mg/Kg dry	1		05/18/2011	6020	KS
	% Total Solids	88.4	%	0.1		05/14/2011	2540B SM	KS
	Drying and Grinding - Sediment	COMPLETE				05/14/2011		KS
	Gel Permeation Cleanup-Pesticide/PCJ	Completed				05/09/2011	3640	DT
	Gel Permeation Cleanup-SVOC Analy	Completed				05/03/2011	3640	DT

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Sample Number: AB73255 SB-05

Pesticides and PCBs

Analytical Method: 8081,8082
Extraction Method: 3545

Date Tested: 05/11/2011
Extraction Date: 05/03/2011

Analyst: MF
Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
SURROGATE	#Decachlorobiphenyl#	55.3			
SURROGATE	#Tetrachloro-m-xylene#	69.0			
72-54-8	4,4'-DDD	Not Detected	23		1.0
72-55-9	4,4'-DDE	Not Detected	23		1.0
50-29-3	4,4'-DDT	Not Detected	23		1.0
319-84-6	a-BHC	Not Detected	12		1.0
5103-71-9	a-Chlordane	Not Detected	23		1.0
509-00-2	Aldrin	Not Detected	23		1.0
12674-11-2	Aroclor 1016	Not Detected	120		1.0
11104-28-2	Aroclor 1221	Not Detected	120		1.0
11141-16-5	Aroclor 1232	Not Detected	120		1.0
53469-21-9	Aroclor 1242	Not Detected	120		1.0
12672-29-6	Aroclor 1248	Not Detected	120		1.0
11097-69-1	Aroclor 1254	Not Detected	120		1.0
11096-82-5	Aroclor 1260	Not Detected	120		1.0
57324-23-5	Aroclor 1262	Not Detected	120		1.0
11100-14-4	Aroclor 1268	Not Detected	120		1.0
319-85-7	b-BHC	Not Detected	23		1.0
319-86-8	d-BHC	Not Detected	23		1.0
60-57-1	Dieldrin	Not Detected	23		1.0
959-98-8	Endosulfan I	Not Detected	23		1.0
33213-65-9	Endosulfan II	Not Detected	23		1.0
1031-07-8	Endosulfan sulfate	Not Detected	23		1.0
72-20-8	Endrin	Not Detected	23		1.0
7421-93-4	Endrin aldehyde	Not Detected	23		1.0
53494-70-5	Endrin ketone	Not Detected	23		1.0
58-89-9	g-BHC (Lindane)	Not Detected	23		1.0
5103-74-2	g-Chlordane	Not Detected	23		1.0
76-44-8	Heptachlor	Not Detected	23		1.0
1024-57-3	Heptachlor epoxide	Not Detected	23		1.0
87-82-1	Hexabromobenzene	Not Detected	120		1.0
72-43-5	Methoxychlor	Not Detected	58		1.0
2385-85-5	Mirex	Not Detected	58		1.0
59080-40-9	PBB (BP-6)	Not Detected	290		1.0
8001-35-2	Toxaphene	Not Detected	200		1.0

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ug / Kg : microgram / kilogram (ppb)
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Sample Number: AB73255 SB-05

Base Neutral Acid Compounds

Analytical Method: 8270 Date Tested: 05/11/2011 Analyst: SMH
Extraction Method: 3545 Extraction Date: 05/02/2011 Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
SURROGATE	#2-Fluorobiphenyl#	72.2			
SURROGATE	#2,4,6-Tribromophenol#	69.4			
SURROGATE	#2-Fluorophenol#	67.3			
SURROGATE	#Nitrobenzene - D5#	73.7			
SURROGATE	#Phenol - D6#	78.2			
SURROGATE	#p-Terphenyl-d14#	79.8			
120-82-1	1,2,4-Trichlorobenzene	Not Detected	460		2.0
95-95-4	2,4,5-Trichlorophenol	Not Detected	770		2.0
88-06-2	2,4,6-Trichlorophenol	Not Detected	770		2.0
120-83-2	2,4-Dichlorophenol	Not Detected	770		2.0
105-67-9	2,4-Dimethylphenol	Not Detected	770		2.0
51-28-5	2,4-Dinitrophenol	Not Detected	3900	Z	2.0
121-14-2	2,4-Dinitrotoluene	Not Detected	580		2.0
606-20-2	2,6-Dinitrotoluene	Not Detected	580		2.0
91-58-7	2-Chloronaphthalene	Not Detected	460		2.0
95-57-8	2-Chlorophenol	Not Detected	770		2.0
534-52-1	2-Methyl-4,6-dinitrophenol	Not Detected	3900	Z	2.0
91-57-6	2-Methylnaphthalene	Not Detected	580		2.0
95-48-7	2-Methylphenol (o-Cresol)	Not Detected	770		2.0
88-74-4	2-Nitroaniline	Not Detected	1200		2.0
88-75-5	2-Nitrophenol	Not Detected	770		2.0
108394,106445	3 & 4-Methylphenol	Not Detected	1500		2.0
99-09-2	3-Nitroaniline	Not Detected	1200		2.0
101-55-3	4-Bromophenyl phenyl ether	Not Detected	460		2.0
59-50-7	4-Chloro-3-methyl-phenol	Not Detected	460		2.0
7005-72-3	4-Chlorodiphenylether	Not Detected	230		2.0
100-01-6	4-Nitroaniline	Not Detected	1200	5	2.0
100-02-7	4-Nitrophenol	Not Detected	3900	7Z	2.0
83-32-9	Acenaphthene	Not Detected	230		2.0
208-96-8	Acenaphthylene	Not Detected	230		2.0
120-12-7	Anthracene	Not Detected	230		2.0
103-33-3	Azobenzene	Not Detected	460		2.0
56-55-3	Benzo[a]anthracene	Not Detected	230		2.0
50-32-8	Benzo[a]pyrene	Not Detected	460		2.0
205-99-2	Benzo[b]fluoranthene	Not Detected	460		2.0
191-24-2	Benzo[ghi]perylene	Not Detected	460		2.0
207-08-9	Benzo[k]fluoranthene	Not Detected	460		2.0
100-51-6	Benzyl Alcohol	Not Detected	5800		2.0
111-91-1	Bis(2-chloroethoxy)methane	Not Detected	460		2.0
111-44-4	Bis(2-chloroethyl)ether	Not Detected	230		2.0

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

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mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
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Sample Number: AB73255 SB-05

Base Neutral Acid Compounds

Analytical Method: 8270 Date Tested: 05/11/2011 Analyst: SMH
Extraction Method: 3545 Extraction Date: 05/02/2011 Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
108-60-1	Bis(2-chloroisopropyl)ether	Not Detected	230		2.0
117-81-7	Bis(2-ethylhexyl)phthalate	Not Detected	580		2.0
85-68-7	Butyl benzyl phthalate	Not Detected	580		2.0
86-74-8	Carbazole	Not Detected	580		2.0
218-01-9	Chrysene	Not Detected	230		2.0
53-70-3	Dibenz[a,h]anthracene	Not Detected	460		2.0
132-64-9	Dibenzofuran	Not Detected	580		2.0
84-66-2	Diethylphthalate	Not Detected	580		2.0
131-11-3	Dimethyl phthalate	Not Detected	580		2.0
84-74-2	Di-n-butyl phthalate	Not Detected	580		2.0
117-84-0	Di-n-octyl phthalate	Not Detected	580		2.0
206-44-0	Fluoranthene	Not Detected	230		2.0
86-73-7	Fluorene	Not Detected	230		2.0
118-74-1	Hexachlorobenzene	Not Detected	460		2.0
87-68-3	Hexachlorobutadiene	Not Detected	230	Z	2.0
77-47-4	Hexachlorocyclopentadiene	Not Detected	2300	Z	2.0
67-72-1	Hexachloroethane	Not Detected	230		2.0
193-39-5	Indeno(1,2,3-c,d)pyrene	Not Detected	460		2.0
78-59-1	Isophorone	Not Detected	230		2.0
91-20-3	Naphthalene	Not Detected	230		2.0
98-95-3	Nitrobenzene	Not Detected	460		2.0
67-75-9	N-Nitrosodimethylamine	Not Detected	580		2.0
521-64-7	N-Nitrosodi-n-propylamine	Not Detected	460		2.0
86-30-6	N-Nitrosodiphenylamine	Not Detected	460		2.0
87-86-5	Pentachlorophenol	Not Detected	3900	Z=800	2.0
85-01-8	Phenanthrene	Not Detected	230		2.0
108-95-2	Phenol	Not Detected	770		2.0
129-00-0	Pyrene	Not Detected	230		2.0

RLs raised due to matrix.

Volatile Compounds

Analytical Method: 8260 Date Tested: 05/07/2011 Analyst: SJR
Extraction Method: 5035 Extraction Date: 05/02/2011 Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
	##Weight of sample(grams)	9.68			
SURROGATE	#Bromofluorobenzene#	126			
SURROGATE	#Dibromofluoromethane#	146			
SURROGATE	#Toluene-d8#	137			

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Sample Number: AB73255 SB-05

Volatile Compounds

Analytical Method: 8260
Extraction Method: 5035

Date Tested: 05/07/2011
Extraction Date: 05/02/2011

Analyst: SJR
Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
630-20-6	1,1,1,2-Tetrachloroethane	Not Detected	68		50
71-55-6	1,1,1-Trichloroethane	Not Detected	68		50
79-34-5	1,1,2,2-Tetrachloroethane	Not Detected	68		50
79-00-5	1,1,2-Trichloroethane	Not Detected	68		50
75-34-3	1,1-Dichloroethane	Not Detected	68		50
75-35-4	1,1-Dichloroethylene	Not Detected	68		50
87-61-6	1,2,3-Trichlorobenzene	Not Detected	340		50
96-18-4	1,2,3-Trichloropropane	Not Detected	68		50
526-73-8	1,2,3-Trimethylbenzene	Not Detected	68		50
120-82-1	1,2,4-Trichlorobenzene	Not Detected	340		50
95-63-6	1,2,4-Trimethylbenzene	Not Detected	68		50
96-12-8	1,2-Dibromo-3-chloropropane	Not Detected	340		50
106-93-4	1,2-Dibromoethane	Not Detected	68	Z	50
95-50-1	1,2-Dichlorobenzene	Not Detected	68		50
107-06-2	1,2-Dichloroethane	Not Detected	68		50
78-87-5	1,2-Dichloropropane	Not Detected	68		50
108-67-8	1,3,5-Trimethylbenzene	Not Detected	68		50
541-73-1	1,3-Dichlorobenzene	Not Detected	68		50
106-46-7	1,4-Dichlorobenzene	Not Detected	68		50
78-93-3	2-Butanone (MEK)	Not Detected	340	S	50
591-78-6	2-Hexanone	Not Detected	340		50
91-57-6	2-Methylnaphthalene	Not Detected	340	X	50
67-64-1	2-Propanone (acetone)	Not Detected	1400	S	50
108-10-1	4-Methyl-2-pentanone (MIBK)	Not Detected	340		50
107-13-1	Acrylonitrile	Not Detected	340	Z	50
71-43-2	Benzene	Not Detected	68		50
108-86-1	Bromobenzene	Not Detected	68		50
74-97-5	Bromochloromethane	Not Detected	68		50
75-27-4	Bromodichloromethane	Not Detected	68		50
75-25-2	Bromoform	Not Detected	68		50
74-83-9	Bromomethane	Not Detected	270		50
75-15-0	Carbon disulfide	Not Detected	68		50
56-23-5	Carbon tetrachloride	Not Detected	68		50
108-90-7	Chlorobenzene	Not Detected	68		50
75-00-3	Chloroethane	Not Detected	340		50
67-66-3	Chloroform	Not Detected	68		50
74-87-3	Chloromethane	Not Detected	340		50
156-59-2	cis-1,2-Dichloroethylene	Not Detected	68		50
10061-01-5	cis-1,3-Dichloropropylene	Not Detected	68		50
110-82-7	Cyclohexane	Not Detected	340		50

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Sample Number: AB73255 SB-05

Volatile Compounds

Analytical Method: 8260
Extraction Method: 5035

Date Tested: 05/07/2011
Extraction Date: 05/02/2011

Analyst: SJR
Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
124-48-1	Dibromochloromethane	Not Detected	68		50
74-95-3	Dibromomethane	Not Detected	68		50
75-71-8	Dichlorodifluoromethane	Not Detected	340		50
60-29-7	Diethyl ether	Not Detected	270		50
108-20-3	Diisopropyl Ether	Not Detected	340		50
100-41-4	Ethylbenzene	Not Detected	68		50
637-92-3	Ethyltertiarybutylether	Not Detected	340		50
67-72-1	Hexachloroethane	Not Detected	340	7	50
98-82-8	Isopropylbenzene	Not Detected	68		50
108383,106423	m & p - Xylene	Not Detected	140		50
74-88-4	Methyl iodide	Not Detected	68		50
75-09-2	Methylene chloride	Not Detected	140		50
1634-04-4	Methyltertiarybutylether	Not Detected	68		50
91-20-3	Naphthalene	Not Detected	340	X	50
104-51-8	n-Butylbenzene	Not Detected	68		50
103-65-1	n-Propylbenzene	Not Detected	68		50
95-47-6	o-Xylene	Not Detected	68		50
99-87-6	p-Isopropyl toluene	Not Detected	68		50
135-98-8	sec-Butylbenzene	Not Detected	68		50
100-42-5	Styrene	Not Detected	68		50
98-06-6	tert-Butylbenzene	Not Detected	68		50
75-65-0	tertiary Butyl Alcohol	Not Detected	3400		50
994-05-8	tertiary Amyl methyl ether	Not Detected	340		50
127-18-4	Tetrachloroethylene	Not Detected	68		50
109-99-9	Tetrahydrofuran	Not Detected	340		50
108-88-3	Toluene	Not Detected	68		50
156-60-5	trans-1,2-Dichloroethylene	Not Detected	68		50
10061-02-6	trans-1,3-Dichloropropylene	Not Detected	68		50
110-57-6	trans-1,4-Dichloro-2-butene	Not Detected	340	7Z	50
79-01-6	Trichloroethylene	Not Detected	68		50
75-69-4	Trichlorofluoromethane	Not Detected	68		50
75-01-4	Vinyl chloride	Not Detected	68	Z	50

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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Sample Number: AB73255 SB-05

CAS#	Analyte Name	Result	Unit	RL	Qualifier	Date Tested	Method	Analyst
57-12-5	Cyanide - Sediment	ND	mg/Kg dry	0.1		05/17/2011	ASTM D 751	MB
	Cyanide-Extraction	Completed				05/10/2011	9013	MB
	Digest Mercury - Sediment	Completed				05/11/2011	7471	TS
7439-97-6	Mercury - Sediment	ND	mg/Kg dry	0.05		05/12/2011	7471	TS
7440-36-0	Antimony - Sediment	ND	mg/Kg dry	0.3		05/21/2011	6020	KS
7440-38-2	Arsenic - Sediment	7.5	mg/Kg dry	0.5		05/18/2011	6020	KS
7440-39-3	Barium - Sediment	26	mg/Kg dry	1		05/18/2011	6020	KS
7440-41-7	Beryllium - Sediment	0.38	mg/Kg dry	0.2		05/18/2011	6020	KS
7440-43-9	Cadmium - Sediment	ND	mg/Kg dry	0.2		05/18/2011	6020	KS
7440-47-3	Chromium - Sediment	16	mg/Kg dry	2		05/18/2011	6020	KS
7440-48-4	Cobalt - Sediment	5.1	mg/Kg dry	.5		05/18/2011	6020	KS
7440-50-8	Copper - Sediment	14	mg/Kg dry	1		05/18/2011	6020	KS
	Digest Antimony - Sediment	Completed				05/20/2011	3050	WN
	Digest Metals - Sediment	Completed				05/17/2011	3050	WN
7439-89-6	Iron - Sediment	19000	mg/Kg dry	50	D	05/25/2011	6010	WN
7439-92-1	Lead - Sediment	8.4	mg/Kg dry	1		05/18/2011	6020	KS
7439-96-5	Manganese - Sediment	250	mg/Kg dry	1		05/18/2011	6020	KS
7439-98-7	Molybdenum - Sediment	2.2	mg/Kg dry	1		05/18/2011	6020	KS
7440-02-0	Nickel - Sediment	13	mg/Kg dry	1		05/18/2011	6020	KS
7432-49-2	Selenium - Sediment	ND	mg/Kg dry	0.2		05/18/2011	6020	KS
7440-22-4	Silver - Sediment	ND	mg/Kg dry	0.1		05/18/2011	6020	KS
7440-28-0	Thallium - Sediment	ND	mg/Kg dry	0.5		05/18/2011	6020	KS
7440-62-2	Vanadium - Sediment	20	mg/Kg dry	1		05/18/2011	6020	KS
7440-66-6	Zinc - Sediment	33	mg/Kg dry	1		05/18/2011	6020	KS
	% Total Solids	86.1	%	0.1		05/14/2011	2540B SM	KS
	Drying and Grinding - Sediment	COMPLETE				05/14/2011		KS
	Gel Permeation Cleanup-Pesticide/PCJ	Completed				05/09/2011	3640	DT
	Gel Permeation Cleanup-SVOC Analy	Completed				05/03/2011	3640	DT

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Sample Number: AB73256 SB-06

Pesticides and PCBs

Analytical Method: 8081,8082
Extraction Method: 3545

Date Tested: 05/15/2011
Extraction Date: 05/03/2011

Analyst: MF
Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
SURROGATE	#Decachlorobiphenyl#	44.5			
SURROGATE	#Tetrachloro-m-xylene#	80.5			
72-54-8	4,4'-DDD	850	130		5.0
72-55-9	4,4'-DDE	320	130		5.0
50-29-3	4,4'-DDT	560	130		5.0
319-84-6	a-BHC	Not Detected	640		5.0
5103-71-9	a-Chlordane	Not Detected	130		5.0
309-00-2	Aldrin	Not Detected	130		5.0
12674-11-2	Aroclor 1016	Not Detected	640		5.0
11104-28-2	Aroclor 1221	Not Detected	640		5.0
11141-16-5	Aroclor 1232	Not Detected	640		5.0
53469-21-9	Aroclor 1242	Not Detected	640		5.0
12672-29-6	Aroclor 1248	Not Detected	640		5.0
11097-69-1	Aroclor 1254	Not Detected	640		5.0
11096-82-5	Aroclor 1260	Not Detected	640		5.0
57324-23-5	Aroclor 1262	Not Detected	640		5.0
11100-14-4	Aroclor 1268	Not Detected	640		5.0
319-85-7	b-BHC	Not Detected	130		5.0
319-86-8	d-BHC	Not Detected	130		5.0
60-57-1	Dieldrin	Not Detected	130		5.0
959-98-8	Endosulfan I	Not Detected	130		5.0
33213-65-9	Endosulfan II	Not Detected	130		5.0
1031-07-8	Endosulfan sulfate	Not Detected	130		5.0
72-20-8	Endrin	Not Detected	130		5.0
7421-93-4	Endrin aldehyde	Not Detected	130		5.0
53494-70-5	Endrin ketone	Not Detected	130		5.0
58-89-9	g-BHC (Lindane)	Not Detected	130		5.0
5103-74-2	g-Chlordane	Not Detected	130		5.0
76-44-8	Heptachlor	Not Detected	130		5.0
1024-57-3	Heptachlor epoxide	Not Detected	130		5.0
87-82-1	Hexabromobenzene	Not Detected	640		5.0
72-43-5	Methoxychlor	Not Detected	320		5.0
2385-85-5	Mirex	Not Detected	320		5.0
59080-40-9	PBB (BP-6)	Not Detected	1600		5.0
8001-35-2	Toxaphene	Not Detected	1100		5.0

RLs raised due to matrix interference.

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ug / Kg : microgram / kilogram (ppb)
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Sample Number: AB73256 SB-06

Base Neutral Acid Compounds

Analytical Method: 8270
Extraction Method: 3545

Date Tested: 05/13/2011
Extraction Date: 05/05/2011

Analyst: SMH
Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
SURROGATE	#2-Fluorobiphenyl#	85.1			
SURROGATE	#2,4,6-Tribromophenol#	60.0			
SURROGATE	#2-Fluorophenol#	41.8			
SURROGATE	#Nitrobenzene - D5#	62.6			
SURROGATE	#Phenol - D6#	73.9			
SURROGATE	#p-Terphenyl-d14#	110			
120-82-1	1,2,4-Trichlorobenzene	Not Detected	250		1.0
95-95-4	2,4,5-Trichlorophenol	Not Detected	420		1.0
88-06-2	2,4,6-Trichlorophenol	Not Detected	420		1.0
120-83-2	2,4-Dichlorophenol	Not Detected	420		1.0
105-67-9	2,4-Dimethylphenol	Not Detected	420		1.0
51-28-5	2,4-Dinitrophenol	Not Detected	2200	Z	1.0
121-14-2	2,4-Dinitrotoluene	Not Detected	320		1.0
606-20-2	2,6-Dinitrotoluene	Not Detected	320		1.0
91-58-7	2-Chloronaphthalene	Not Detected	250		1.0
95-57-8	2-Chlorophenol	Not Detected	420		1.0
534-52-1	2-Methyl-4,6-dinitrophenol	Not Detected	2200	Z	1.0
91-57-6	2-Methylnaphthalene	Not Detected	320		1.0
95-48-7	2-Methylphenol (o-Cresol)	Not Detected	420		1.0
88-74-4	2-Nitroaniline	Not Detected	640		1.0
88-75-5	2-Nitrophenol	Not Detected	420		1.0
108394,106445	3 & 4-Methylphenol	Not Detected	840		1.0
99-09-2	3-Nitroaniline	Not Detected	640		1.0
101-55-3	4-Bromophenyl phenyl ether	Not Detected	250		1.0
59-50-7	4-Chloro-3-methyl-phenol	Not Detected	250		1.0
7005-72-3	4-Chlorodiphenylether	Not Detected	130		1.0
100-01-6	4-Nitroaniline	Not Detected	640		1.0
100-02-7	4-Nitrophenol	Not Detected	2200	Z	1.0
83-32-9	Acenaphthene	480	130		1.0
208-96-8	Acenaphthylene	130	130		1.0
120-12-7	Anthracene	2200	130		1.0
103-33-3	Azobenzene	Not Detected	250		1.0
56-55-3	Benzo[a]anthracene	7600	130		1.0
50-32-8	Benzo[a]pyrene	6700	250		1.0
205-99-2	Benzo[b]fluoranthene	10000	2500		10
191-24-2	Benzo[g,h,i]perylene	2900	250		1.0
207-08-9	Benzo[k]fluoranthene	3000	250		1.0
100-51-6	Benzyl Alcohol	Not Detected	3200		1.0
111-91-1	Bis(2-chloroethoxy)methane	Not Detected	250		1.0
111-44-4	Bis(2-chloroethyl)ether	Not Detected	130		1.0

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Sample Number: AB73256 SB-06

Base Neutral Acid Compounds

Analytical Method: 8270 Date Tested: 05/13/2011 Analyst: SMH
Extraction Method: 3545 Extraction Date: 05/05/2011 Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
108-60-1	Bis(2-chloroisopropyl)ether	Not Detected	130		1.0
117-81-7	Bis(2-ethylhexyl)phthalate	Not Detected	320		1.0
85-68-7	Butyl benzyl phthalate	Not Detected	320		1.0
86-74-8	Carbazole	650	320		1.0
218-01-9	Chrysene	7700	130		1.0
53-70-3	Dibenz[a,h]anthracene	1200	250		1.0
132-64-9	Dibenzofuran	470	320		1.0
84-66-2	Diethylphthalate	Not Detected	320		1.0
51-11-3	Dimethyl phthalate	Not Detected	320		1.0
84-74-2	Di-n-butyl phthalate	Not Detected	320		1.0
117-84-0	Di-n-octyl phthalate	Not Detected	320		1.0
206-44-0	Fluoranthene	19000	1300		10
86-73-7	Fluorene	1000	130		1.0
118-74-1	Hexachlorobenzene	Not Detected	250		1.0
87-68-3	Hexachlorobutadiene	Not Detected	130	Z	1.0
77-47-4	Hexachlorocyclopentadiene	Not Detected	1300	Z	1.0
67-72-1	Hexachloroethane	Not Detected	130		1.0
193-39-5	Indeno(1,2,3-c,d)pyrene	4400	250		1.0
78-59-1	Isophorone	Not Detected	130		1.0
91-20-3	Naphthalene	240	130		1.0
98-95-3	Nitrobenzene	Not Detected	250		1.0
67-75-9	N-Nitrosodimethylamine	Not Detected	320		1.0
621-64-7	N-Nitrosodi-n-propylamine	Not Detected	250		1.0
86-30-6	N-Nitrosodiphenylamine	Not Detected	250		1.0
87-86-5	Pentachlorophenol	Not Detected	2200	Z=800	1.0
85-01-8	Phenanthrene	11000	1300		10
108-95-2	Phenol	Not Detected	420		1.0
129-00-0	Pyrene	16000	1300		10

Volatile Compounds

Analytical Method: 8260 Date Tested: 05/07/2011 Analyst: SJR
Extraction Method: 5035 Extraction Date: 05/02/2011 Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
	##Weight of sample(grams)	10.99			
SURROGATE	#Bromofluorobenzene#	113			
SURROGATE	#Dibromofluoromethane#	133			
SURROGATE	#Toluene-d8#	125			

CAS# : Chemical Abstract Service Registry Number
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Sample Number: AB73256 SB-06

Volatile Compounds

Analytical Method: 8260 Date Tested: 05/07/2011 Analyst: SJR
Extraction Method: 5035 Extraction Date: 05/02/2011 Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
630-20-6	1,1,1,2-Tetrachloroethane	Not Detected	77		50
71-55-6	1,1,1-Trichloroethane	Not Detected	77		50
79-34-5	1,1,2,2-Tetrachloroethane	Not Detected	77		50
79-00-5	1,1,2-Trichloroethane	Not Detected	77		50
75-34-3	1,1-Dichloroethane	Not Detected	77		50
75-35-4	1,1-Dichloroethylene	Not Detected	77		50
87-61-6	1,2,3-Trichlorobenzene	Not Detected	390		50
96-18-4	1,2,3-Trichloropropane	Not Detected	77		50
526-73-8	1,2,3-Trimethylbenzene	Not Detected	77		50
120-82-1	1,2,4-Trichlorobenzene	Not Detected	390		50
95-63-6	1,2,4-Trimethylbenzene	Not Detected	77		50
96-12-8	1,2-Dibromo-3-chloropropane	Not Detected	390		50
106-93-4	1,2-Dibromoethane	Not Detected	77	Z	50
95-50-1	1,2-Dichlorobenzene	Not Detected	77		50
107-06-2	1,2-Dichloroethane	Not Detected	77		50
78-87-5	1,2-Dichloropropane	Not Detected	77		50
108-67-8	1,3,5-Trimethylbenzene	Not Detected	77		50
541-73-1	1,3-Dichlorobenzene	Not Detected	77		50
106-46-7	1,4-Dichlorobenzene	Not Detected	77		50
78-93-3	2-Butanone (MEK)	Not Detected	390	5	50
591-78-6	2-Hexanone	Not Detected	390		50
91-57-6	2-Methylnaphthalene	Not Detected	390	X	50
67-64-1	2-Propanone (acetone)	Not Detected	1500	5	50
108-10-1	4-Methyl-2-pentanone (MIBK)	Not Detected	390		50
107-13-1	Acrylonitrile	Not Detected	390	Z	50
71-43-2	Benzene	Not Detected	77		50
108-86-1	Bromobenzene	Not Detected	77		50
74-97-5	Bromochloromethane	Not Detected	77		50
75-27-4	Bromodichloromethane	Not Detected	77		50
75-25-2	Bromoform	Not Detected	77		50
74-83-9	Bromomethane	Not Detected	310		50
75-15-0	Carbon disulfide	Not Detected	77		50
56-23-5	Carbon tetrachloride	Not Detected	77		50
108-90-7	Chlorobenzene	Not Detected	77		50
75-00-3	Chloroethane	Not Detected	390		50
67-66-3	Chloroform	Not Detected	77		50
74-87-3	Chloromethane	Not Detected	390		50
156-59-2	cis-1,2-Dichloroethylene	Not Detected	77		50
10061-01-5	cis-1,3-Dichloropropylene	Not Detected	77		50
110-82-7	Cyclohexane	Not Detected	390		50

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Sample Number: AB73256 SB-06

Volatile Compounds

Analytical Method: 8260 Date Tested: 05/07/2011 Analyst: SJR
Extraction Method: 5035 Extraction Date: 05/02/2011 Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
124-48-1	Dibromochloromethane	Not Detected	77		50
74-95-3	Dibromomethane	Not Detected	77		50
75-71-8	Dichlorodifluoromethane	Not Detected	390		50
60-29-7	Diethyl ether	Not Detected	310		50
108-20-3	Diisopropyl Ether	Not Detected	390		50
100-41-4	Ethylbenzene	Not Detected	77		50
697-92-5	Ethyltertiarybutylether	Not Detected	390		50
67-72-1	Hexachloroethane	Not Detected	390	7	50
98-82-8	Isopropylbenzene	Not Detected	77		50
108383,106423	m & p - Xylene	Not Detected	150		50
74-88-4	Methyl iodide	Not Detected	77		50
75-09-2	Methylene chloride	Not Detected	150		50
1634-04-4	Methyltertiarybutylether	Not Detected	77		50
91-20-3	Naphthalene	Not Detected	390	X	50
104-51-8	n-Butylbenzene	Not Detected	77		50
103-65-1	n-Propylbenzene	Not Detected	77		50
95-47-6	o-Xylene	Not Detected	77		50
99-87-6	p-Isopropyl toluene	Not Detected	77		50
135-98-8	sec-Butylbenzene	Not Detected	77		50
100-42-5	Styrene	Not Detected	77		50
98-06-6	tert-Butylbenzene	Not Detected	77		50
75-65-0	tertiary Butyl Alcohol	Not Detected	3900		50
994-05-8	tertiary Amyl methyl ether	Not Detected	390		50
127-18-4	Tetrachloroethylene	260	77		50
109-99-9	Tetrahydrofuran	Not Detected	390		50
108-88-3	Toluene	Not Detected	77		50
156-60-5	trans-1,2-Dichloroethylene	Not Detected	77		50
10061-02-6	trans-1,3-Dichloropropylene	Not Detected	77		50
110-57-6	trans-1,4-Dichloro-2-butene	Not Detected	390	7Z	50
79-01-6	Trichloroethylene	Not Detected	77		50
75-69-4	Trichlorofluoromethane	Not Detected	77		50
75-01-4	Vinyl chloride	Not Detected	77	Z	50

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Sample Number: AB73256 SB-06

CAS#	Analyte Name	Result	Unit	RL	Qualifier	Date Tested	Method	Analyst
57-12-5	Cyanide - Sediment	0.8	mg/Kg dry	0.1		05/11/2011	ASTM D 751	MB
	Cyanide-Extraction	Completed				05/10/2011	9013	MB
	Digest Mercury - Sediment	Completed				05/11/2011	7471	TS
7439-97-6	Mercury - Sediment	16	mg/Kg dry	0.05		05/12/2011	7471	TS
7440-36-0	Antimony - Sediment	6.1	mg/Kg dry	0.3		05/21/2011	6020	KS
7440-38-2	Arsenic - Sediment	15	mg/Kg dry	0.5		05/18/2011	6020	KS
7440-39-3	Barium - Sediment	410	mg/Kg dry	1		05/18/2011	6020	KS
7440-41-7	Beryllium - Sediment	0.93	mg/Kg dry	0.2		05/18/2011	6020	KS
7440-43-9	Cadmium - Sediment	8.4	mg/Kg dry	0.2		05/18/2011	6020	KS
7440-47-3	Chromium - Sediment	47	mg/Kg dry	2		05/18/2011	6020	KS
7440-48-4	Cobalt - Sediment	8.5	mg/Kg dry	.5		05/18/2011	6020	KS
7440-50-8	Copper - Sediment	240	mg/Kg dry	1		05/18/2011	6020	KS
	Digest Antimony - Sediment	Completed				05/20/2011	3050	WN
	Digest Metals - Sediment	Completed				05/17/2011	3050	WN
7439-89-6	Iron - Sediment	45000	mg/Kg dry	50	D	05/25/2011	6010	WN
7439-92-1	Lead - Sediment	840	mg/Kg dry	1		05/18/2011	6020	KS
7439-96-5	Manganese - Sediment	350	mg/Kg dry	1		05/18/2011	6020	KS
7439-98-7	Molybdenum - Sediment	9.5	mg/Kg dry	1		05/18/2011	6020	KS
7440-02-0	Nickel - Sediment	25	mg/Kg dry	1		05/18/2011	6020	KS
7782-49-2	Selenium - Sediment	1.8	mg/Kg dry	0.2		05/18/2011	6020	KS
7440-22-4	Silver - Sediment	1.1	mg/Kg dry	0.1		05/18/2011	6020	KS
7440-28-0	Thallium - Sediment	ND	mg/Kg dry	0.5		05/18/2011	6020	KS
7440-62-2	Vanadium - Sediment	23	mg/Kg dry	1		05/18/2011	6020	KS
7440-66-6	Zinc - Sediment	600	mg/Kg dry	1		05/18/2011	6020	KS
	% Total Solids	78.7	%	0.1		05/14/2011	2540B SM	KS
	Drying and Grinding - Sediment	COMPLETE				05/14/2011		KS
	Gel Permeation Cleanup-Pesticide/PCJ	Completed				05/09/2011	3640	DT
	Gel Permeation Cleanup-SVOC Analy	Completed				05/05/2011	3640	DT

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug/L : microgram / liter (ppb)
mg/L : milligram / liter (ppm)
ug/Kg : microgram / kilogram (ppb)
mg/Kg : milligram / kilogram (ppm)

Laboratory Contacts
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Organic Unit Mgr: Carol Smith
Systems Mgmt Unit: George Krisztian



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Sample Number: AB73257 SB-07

Pesticides and PCBs

Analytical Method: 8081,8082 Date Tested: 05/15/2011 Analyst: MF
Extraction Method: 3545 Extraction Date: 05/03/2011 Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
SURROGATE	#Decachlorobiphenyl#	200		9	
SURROGATE	#Tetrachloro-m-xylene#	78.6			
72-54-8	4,4'-DDD	5400	3000	2	100
72-55-9	4,4'-DDE	1900	300	2	10
50-29-3	4,4'-DDT	2600	300	2	10
319-84-6	a-BHC	Not Detected	150		10
5103-71-9	a-Chlordane	2300	300	2	10
809-00-2	Aldrin	Not Detected	300		10
12674-11-2	Aroclor 1016	Not Detected	1500		10
11104-28-2	Aroclor 1221	Not Detected	1500		10
11141-16-5	Aroclor 1232	Not Detected	1500		10
53469-21-9	Aroclor 1242	Not Detected	1500		10
12672-29-6	Aroclor 1248	Not Detected	1500		10
11097-69-1	Aroclor 1254	Not Detected	1500		10
11096-82-5	Aroclor 1260	Not Detected	1500		10
57324-23-5	Aroclor 1262	Not Detected	1500		10
11100-14-4	Aroclor 1268	Not Detected	1500		10
319-85-7	b-BHC	Not Detected	300		10
319-86-8	d-BHC	Not Detected	300		10
60-57-1	Dieldrin	Not Detected	300		10
959-98-8	Endosulfan I	Not Detected	300		10
33213-65-9	Endosulfan II	Not Detected	300		10
1031-07-8	Endosulfan sulfate	Not Detected	300		10
72-20-8	Endrin	Not Detected	300		10
7421-93-4	Endrin aldehyde	Not Detected	300		10
53494-70-5	Endrin ketone	Not Detected	300		10
58-89-9	g-BHC (Lindane)	Not Detected	300		10
5103-74-2	g-Chlordane	2600	300	2	10
76-44-8	Heptachlor	Not Detected	300		10
1024-57-3	Heptachlor epoxide	Not Detected	300		10
87-82-1	Hexabromobenzene	Not Detected	1500		10
72-43-5	Methoxychlor	Not Detected	760		10
2385-85-5	Mirex	Not Detected	760		10
59080-40-9	PBB (BP-6)	Not Detected	3800		10
8001-35-2	Toxaphene	Not Detected	26000		100

RLs raised due to matrix interference.

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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Sample Number: AB73257 SB-07

Base Neutral Acid Compounds

Analytical Method: 8270
Extraction Method: 3545

Date Tested: 05/13/2011
Extraction Date: 05/05/2011

Analyst: SMH
Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
SURROGATE	#2-Fluorobiphenyl#	82.7			
SURROGATE	#2,4,6-Tribromophenol#	75.6			
SURROGATE	#2-Fluorophenol#	41.1			
SURROGATE	#Nitrobenzene - D5#	62.9			
SURROGATE	#Phenol - D6#	43.1			
SURROGATE	#p-Terphenyl-d14#	77.6			
120-82-1	1,2,4-Trichlorobenzene	Not Detected	600		2.0
95-95-4	2,4,5-Trichlorophenol	Not Detected	1000		2.0
88-06-2	2,4,6-Trichlorophenol	Not Detected	1000		2.0
120-83-2	2,4-Dichlorophenol	Not Detected	1000		2.0
105-67-9	2,4-Dimethylphenol	Not Detected	1000		2.0
51-28-5	2,4-Dinitrophenol	Not Detected	5100	Z	2.0
121-14-2	2,4-Dinitrotoluene	Not Detected	760		2.0
606-20-2	2,6-Dinitrotoluene	Not Detected	760		2.0
91-58-7	2-Chloronaphthalene	Not Detected	600		2.0
95-57-8	2-Chlorophenol	Not Detected	1000		2.0
534-52-1	2-Methyl-4,6-dinitrophenol	Not Detected	5100	Z	2.0
91-57-6	2-Methylnaphthalene	Not Detected	760		2.0
95-48-7	2-Methylphenol (o-Cresol)	Not Detected	1000		2.0
88-74-4	2-Nitroaniline	Not Detected	1500		2.0
88-75-5	2-Nitrophenol	Not Detected	1000		2.0
108394,106445	3 & 4-Methylphenol	Not Detected	2000		2.0
99-09-2	3-Nitroaniline	Not Detected	1500		2.0
101-55-3	4-Bromophenyl phenyl ether	Not Detected	600		2.0
59-50-7	4-Chloro-3-methyl-phenol	Not Detected	600		2.0
7005-72-3	4-Chlorodiphenylether	Not Detected	300		2.0
100-01-6	4-Nitroaniline	Not Detected	1500		2.0
100-02-7	4-Nitrophenol	Not Detected	5100	Z	2.0
83-32-9	Acenaphthene	580	300		2.0
208-96-8	Acenaphthylene	300	300		2.0
120-12-7	Anthracene	2200	300		2.0
103-33-3	Azobenzene	Not Detected	600		2.0
56-55-3	Benzo[a]anthracene	11000	3000		20
50-32-8	Benzo[a]pyrene	11000	6000		20
205-99-2	Benzo[b]fluoranthene	16000	6000		20
191-24-2	Benzo[g,h,i]perylene	Not Detected	6000		20
207-08-9	Benzo[k]fluoranthene	Not Detected	6000		20
100-51-6	Benzyl Alcohol	Not Detected	7600		2.0
111-91-1	Bis(2-chloroethoxy)methane	Not Detected	600		2.0
111-44-4	Bis(2-chloroethyl)ether	Not Detected	300		2.0

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
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Sample Number: AB73257 SB-07

Base Neutral Acid Compounds

Analytical Method: 8270 Date Tested: 05/13/2011 Analyst: SMH
Extraction Method: 3545 Extraction Date: 05/05/2011 Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
108-60-1	Bis(2-chloroisopropyl)ether	Not Detected	300		2.0
117-81-7	Bis(2-ethylhexyl)phthalate	Not Detected	7600		20
85-68-7	Butyl benzyl phthalate	Not Detected	7600		20
86-74-8	Carbazole	850	760		2.0
218-01-9	Chrysene	13000	3000		20
53-70-3	Dibenz[a,h]anthracene	Not Detected	6000	5	20
132-64-9	Dibenzofuran	Not Detected	760		2.0
84-66-2	Diethylphthalate	Not Detected	760		2.0
131-11-3	Dimethyl phthalate	Not Detected	760		2.0
84-74-2	Di-n-butyl phthalate	Not Detected	760		2.0
117-84-0	Di-n-octyl phthalate	Not Detected	7600		20
206-44-0	Fluoranthene	17000	300		2.0
86-73-7	Fluorene	950	300		2.0
118-74-1	Hexachlorobenzene	Not Detected	600		2.0
87-68-3	Hexachlorobutadiene	Not Detected	300	Z	2.0
77-47-4	Hexachlorocyclopentadiene	Not Detected	3000	Z	2.0
67-72-1	Hexachloroethane	Not Detected	300		2.0
193-39-5	Indeno(1,2,3-c,d)pyrene	Not Detected	6000		20
78-59-1	Isophorone	Not Detected	300		2.0
91-20-3	Naphthalene	720	300		2.0
98-95-3	Nitrobenzene	Not Detected	600		2.0
67-75-9	N-Nitrosodimethylamine	Not Detected	760		2.0
621-64-7	N-Nitrosodi-n-propylamine	Not Detected	600		2.0
86-30-6	N-Nitrosodiphenylamine	Not Detected	600		2.0
87-86-5	Pentachlorophenol	Not Detected	5100	Z=800	2.0
85-01-8	Phenanthrene	9900	300		2.0
108-95-2	Phenol	Not Detected	1000		2.0
129-00-0	Pyrene	19000	3000		20

RLs raised due to matrix.

Probable petroleum product(s) present.

Volatile Compounds

Analytical Method: 8260 Date Tested: 05/07/2011 Analyst: SJR
Extraction Method: 5035 Extraction Date: 05/02/2011 Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
	##Weight of sample(grams)	9.40			
SURROGATE	#Bromofluorobenzene#	118			
SURROGATE	#Dibromofluoromethane#	136			

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
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Sample Number: AB73257 SB-07

Volatile Compounds

Analytical Method: 8260
Extraction Method: 5035

Date Tested: 05/07/2011
Extraction Date: 05/02/2011

Analyst: SJR
Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
SURROGATE	#Toluene-d8#	127			
630-20-6	1,1,1,2-Tetrachloroethane	Not Detected	110		50
71-55-6	1,1,1-Trichloroethane	Not Detected	110		50
79-34-5	1,1,2,2-Tetrachloroethane	Not Detected	110		50
79-00-5	1,1,2-Trichloroethane	Not Detected	110		50
75-34-3	1,1-Dichloroethane	Not Detected	110		50
75-35-4	1,1-Dichloroethylene	Not Detected	110		50
87-61-6	1,2,3-Trichlorobenzene	Not Detected	530		50
96-18-4	1,2,3-Trichloropropane	Not Detected	110		50
526-73-8	1,2,3-Trimethylbenzene	Not Detected	110		50
120-82-1	1,2,4-Trichlorobenzene	Not Detected	530		50
95-63-6	1,2,4-Trimethylbenzene	Not Detected	110		50
96-12-8	1,2-Dibromo-3-chloropropane	Not Detected	530		50
106-93-4	1,2-Dibromoethane	Not Detected	110	Z	50
95-50-1	1,2-Dichlorobenzene	Not Detected	110		50
107-06-2	1,2-Dichloroethane	Not Detected	110		50
78-87-5	1,2-Dichloropropane	Not Detected	110		50
108-67-8	1,3,5-Trimethylbenzene	Not Detected	110		50
541-73-1	1,3-Dichlorobenzene	Not Detected	110		50
106-46-7	1,4-Dichlorobenzene	Not Detected	110		50
78-93-3	2-Butanone (MEK)	Not Detected	530		50
591-78-6	2-Hexanone	Not Detected	530		50
91-57-6	2-Methylnaphthalene	Not Detected	530	X-7	50
67-64-1	2-Propanone (acetone)	Not Detected	2100	5	50
108-10-1	4-Methyl-2-pentanone (MIBK)	Not Detected	530		50
107-13-1	Acrylonitrile	Not Detected	530	Z	50
71-43-2	Benzene	Not Detected	110		50
108-86-1	Bromobenzene	Not Detected	110		50
74-97-5	Bromochloromethane	Not Detected	110		50
75-27-4	Bromodichloromethane	Not Detected	110		50
75-25-2	Bromoform	Not Detected	110		50
74-83-9	Bromomethane	Not Detected	420		50
75-15-0	Carbon disulfide	Not Detected	110		50
56-23-5	Carbon tetrachloride	Not Detected	110		50
108-90-7	Chlorobenzene	Not Detected	110		50
75-00-3	Chloroethane	Not Detected	530		50
67-66-3	Chloroform	Not Detected	110		50
74-87-3	Chloromethane	Not Detected	530		50
156-59-2	cis-1,2-Dichloroethylene	Not Detected	110		50
10061-01-5	cis-1,3-Dichloropropylene	Not Detected	110		50

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Sample Number: AB73257 SB-07

Volatile Compounds

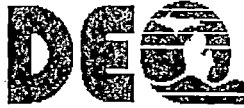
Analytical Method: 8260 Date Tested: 05/07/2011 Analyst: SJR
Extraction Method: 5035 Extraction Date: 05/02/2011 Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
110-82-7	Cyclohexane	Not Detected	530		50
124-48-1	Dibromochloromethane	Not Detected	110		50
74-95-3	Dibromomethane	Not Detected	110		50
75-71-8	Dichlorodifluoromethane	Not Detected	530		50
60-29-7	Diethyl ether	Not Detected	420		50
108-20-3	Diisopropyl Ether	Not Detected	530		50
100-41-4	Ethylbenzene	Not Detected	110		50
637-92-3	Ethyltertiarybutylether	Not Detected	530		50
67-72-1	Hexachloroethane	Not Detected	530		50
98-82-8	Isopropylbenzene	Not Detected	110		50
108383,106423	m & p - Xylene	Not Detected	210		50
74-88-4	Methyl iodide	Not Detected	110		50
75-09-2	Methylene chloride	Not Detected	210		50
1634-04-4	Methyltertiarybutylether	Not Detected	110		50
91-20-3	Naphthalene	Not Detected	530	X	50
104-51-8	n-Butylbenzene	Not Detected	110		50
103-65-1	n-Propylbenzene	Not Detected	110		50
95-47-6	o-Xylene	Not Detected	110		50
99-87-6	p-Isopropyl toluene	140	110		50
135-98-8	sec-Butylbenzene	Not Detected	110		50
100-42-5	Styrene	Not Detected	110		50
98-06-6	tert-Butylbenzene	Not Detected	110		50
75-65-0	tertiary Butyl Alcohol	Not Detected	5300		50
994-05-8	tertiary Amyl methyl ether	Not Detected	530		50
127-18-4	Tetrachloroethylene	Not Detected	110		50
109-99-9	Tetrahydrofuran	Not Detected	530		50
108-88-3	Toluene	Not Detected	110		50
156-60-5	trans-1,2-Dichloroethylene	Not Detected	110		50
10061-02-6	trans-1,3-Dichloropropylene	Not Detected	110		50
110-57-6	trans-1,4-Dichloro-2-butene	Not Detected	530	Z	50
79-01-6	Trichloroethylene	Not Detected	110		50
75-69-4	Trichlorofluoromethane	Not Detected	110		50
75-01-4	Vinyl chloride	Not Detected	110	Z	50

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ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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Sample Number: AB73257 SB-07

CAS#	Analyte Name	Result	Unit	RL	Qualifier	Date Tested	Method	Analyst
57-12-5	Cyanide - Sediment	0.7	mg/Kg dry	0.1		05/11/2011	ASTM D 751	MB
	Cyanide-Extraction	Completed				05/10/2011	9013	MB
	Digest Mercury - Sediment	Completed				05/11/2011	7471	TS
7439-97-6	Mercury - Sediment	1.2	mg/Kg dry	0.05		05/12/2011	7471	TS
7440-36-0	Antimony - Sediment	25	mg/Kg dry	0.3		05/21/2011	6020	KS
7440-38-2	Arsenic - Sediment	31	mg/Kg dry	0.5		05/18/2011	6020	KS
7440-39-3	Barium - Sediment	950	mg/Kg dry	1		05/18/2011	6020	KS
7440-41-7	Beryllium - Sediment	0.61	mg/Kg dry	0.2		05/18/2011	6020	KS
7440-43-9	Cadmium - Sediment	14	mg/Kg dry	0.2		05/18/2011	6020	KS
7440-47-3	Chromium - Sediment	100	mg/Kg dry	2		05/18/2011	6020	KS
7440-48-4	Cobalt - Sediment	11	mg/Kg dry	.5		05/18/2011	6020	KS
7440-50-8	Copper - Sediment	450	mg/Kg dry	1		05/18/2011	6020	KS
	Digest Antimony - Sediment	Completed				05/20/2011	3050	WN
	Digest Metals - Sediment	Completed				05/17/2011	3050	WN
7439-89-6	Iron - Sediment	120000	mg/Kg dry	500	D	05/25/2011	6010	WN
7439-92-1	Lead - Sediment	4200	mg/Kg dry	1		05/19/2011	6020	KS
7439-96-5	Manganese - Sediment	650	mg/Kg dry	1		05/18/2011	6020	KS
7439-98-7	Molybdenum - Sediment	8.7	mg/Kg dry	1		05/18/2011	6020	KS
7440-02-0	Nickel - Sediment	53	mg/Kg dry	1		05/18/2011	6020	KS
7782-49-2	Selenium - Sediment	2.2	mg/Kg dry	0.2		05/18/2011	6020	KS
7440-22-4	Silver - Sediment	3.3	mg/Kg dry	0.1		05/18/2011	6020	KS
7440-28-0	Thallium - Sediment	ND	mg/Kg dry	0.5		05/18/2011	6020	KS
7440-62-2	Vanadium - Sediment	12	mg/Kg dry	1		05/18/2011	6020	KS
7440-66-6	Zinc - Sediment	1300	mg/Kg dry	1		05/18/2011	6020	KS
	% Total Solids	66.2	%	0.1		05/14/2011	2540B SM	KS
	Drying and Grinding - Sediment	COMPLETE				05/14/2011		KS
	Gel Permeation Cleanup-Pesticide/PCI	Completed				05/09/2011	3640	DT
	Gel Permeation Cleanup-SVOC Analy.	Completed				05/05/2011	3640	DT

CAS# : Chemical Abstract Service Registry Number	ug / L : microgram / liter (ppb)	Laboratory Contacts
RL : Reporting Limit	mg / L : milligram / liter (ppm)	Inorganic Unit Mgr: Sandy Gregg
ND : Not Detected	ug / Kg : microgram / kilogram (ppb)	Organic Unit Mgr: Carol Smith
	mg / Kg : milligram / kilogram (ppm)	Systems Mgmt Unit: George Krisztian



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Sample Number: AB73258 SB-08

Pesticides and PCBs

Analytical Method: 8081,8082 Date Tested: 05/11/2011 Analyst: MF
 Extraction Method: 3545 Extraction Date: 05/03/2011 Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
SURROGATE	#Decachlorobiphenyl#	69.8			
SURROGATE	#Tetrachloro-m-xylene#	87.0			
72-54-8	4,4'-DDD	Not Detected	24		1.0
72-55-9	4,4'-DDE	Not Detected	24		1.0
50-29-3	4,4'-DDT	Not Detected	24		1.0
319-84-6	a-BHC	Not Detected	12		1.0
5103-71-9	a-Chlordane	Not Detected	24		1.0
309-00-2	Aldrin	Not Detected	24		1.0
12674-11-2	Aroclor 1016	Not Detected	120		1.0
11104-28-2	Aroclor 1221	Not Detected	120		1.0
11141-16-5	Aroclor 1232	Not Detected	120		1.0
53469-21-9	Aroclor 1242	Not Detected	120		1.0
12672-29-6	Aroclor 1248	Not Detected	120		1.0
11097-69-1	Aroclor 1254	Not Detected	120		1.0
11096-82-5	Aroclor 1260	Not Detected	120		1.0
37324-23-5	Aroclor 1262	Not Detected	120		1.0
11100-14-4	Aroclor 1268	Not Detected	120		1.0
319-85-7	b-BHC	Not Detected	24		1.0
319-86-8	d-BHC	Not Detected	24		1.0
60-57-1	Dieldrin	Not Detected	24		1.0
959-98-8	Endosulfan I	Not Detected	24		1.0
33213-65-9	Endosulfan II	Not Detected	24		1.0
1031-07-8	Endosulfan sulfate	Not Detected	24		1.0
72-20-8	Endrin	Not Detected	24		1.0
7421-93-4	Endrin aldehyde	Not Detected	24		1.0
53494-70-5	Endrin ketone	Not Detected	24		1.0
58-89-9	g-BHC (Lindane)	Not Detected	24		1.0
5103-74-2	g-Chlordane	Not Detected	24		1.0
76-44-8	Heptachlor	Not Detected	24		1.0
1024-57-3	Heptachlor epoxide	Not Detected	24		1.0
87-82-1	Hexabromobenzene	Not Detected	120		1.0
72-43-5	Methoxychlor	Not Detected	59		1.0
2385-85-5	Mirex	Not Detected	59		1.0
59080-40-9	PBB (BP-6)	Not Detected	300		1.0
8001-35-2	Toxaphene	Not Detected	200		1.0

CAS# : Chemical Abstract Service Registry Number
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 mg / L : milligram / liter (ppm)
 ug / Kg : microgram / kilogram (ppb)
 mg / Kg : milligram / kilogram (ppm)

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Sample Number: AB73258 SB-08

Base Neutral Acid Compounds

Analytical Method: 8270
Extraction Method: 3545

Date Tested: 05/12/2011
Extraction Date: 05/05/2011

Analyst: SMH
Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
SURROGATE	#2-Fluorobiphenyl#	63.3			
SURROGATE	#2,4,6-Tribromophenol#	66.4			
SURROGATE	#2-Fluorophenol#	43.1			
SURROGATE	#Nitrobenzene - D5#	58.2			
SURROGATE	#Phenol - D6#	68.4			
SURROGATE	#p-Terphenyl-d14#	67.8			
120-82-1	1,2,4-Trichlorobenzene	Not Detected	240		1.0
95-95-4	2,4,5-Trichlorophenol	Not Detected	390		1.0
88-06-2	2,4,6-Trichlorophenol	Not Detected	390		1.0
120-83-2	2,4-Dichlorophenol	Not Detected	390		1.0
105-67-9	2,4-Dimethylphenol	Not Detected	390		1.0
51-28-5	2,4-Dinitrophenol	Not Detected	2000	Z	1.0
121-14-2	2,4-Dinitrotoluene	Not Detected	300		1.0
606-20-2	2,6-Dinitrotoluene	Not Detected	300		1.0
91-58-7	2-Chloronaphthalene	Not Detected	240		1.0
95-57-8	2-Chlorophenol	Not Detected	390		1.0
534-52-1	2-Methyl-4,6-dinitrophenol	Not Detected	2000	Z	1.0
91-57-6	2-Methylnaphthalene	Not Detected	300		1.0
95-48-7	2-Methylphenol (o-Cresol)	Not Detected	390		1.0
88-74-4	2-Nitroaniline	Not Detected	590		1.0
88-75-5	2-Nitrophenol	Not Detected	390		1.0
108394,106445	3 & 4-Methylphenol	Not Detected	780		1.0
99-09-2	3-Nitroaniline	Not Detected	590		1.0
101-55-3	4-Bromophenyl phenyl ether	Not Detected	240		1.0
59-50-7	4-Chloro-3-methyl-phenol	Not Detected	240		1.0
7005-72-3	4-Chlorodiphenylether	Not Detected	120		1.0
100-01-6	4-Nitroaniline	Not Detected	590		1.0
100-02-7	4-Nitrophenol	Not Detected	2000	Z	1.0
83-32-9	Acenaphthene	Not Detected	120		1.0
208-96-8	Acenaphthylene	Not Detected	120		1.0
120-12-7	Anthracene	Not Detected	120		1.0
103-33-3	Azobenzene	Not Detected	240		1.0
56-55-3	Benzo[a]anthracene	Not Detected	120		1.0
50-32-8	Benzo[a]pyrene	Not Detected	240		1.0
205-99-2	Benzo[b]fluoranthene	Not Detected	240		1.0
191-24-2	Benzo[g,h,i]perylene	Not Detected	240		1.0
207-08-9	Benzo[k]fluoranthene	Not Detected	240		1.0
100-51-6	Benzyl Alcohol	Not Detected	3000		1.0
111-91-1	Bis(2-chloroethoxy)methane	Not Detected	240		1.0
111-44-4	Bis(2-chloroethyl)ether	Not Detected	120		1.0

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Sample Number: AB73258 SB-08

Base Neutral Acid Compounds

Analytical Method: 8270 Date Tested: 05/12/2011 Analyst: SMH
Extraction Method: 3545 Extraction Date: 05/05/2011 Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
108-60-1	Bis(2-chloroisopropyl)ether	Not Detected	120		1.0
117-81-7	Bis(2-ethylhexyl)phthalate	Not Detected	300		1.0
85-68-7	Butyl benzyl phthalate	Not Detected	300		1.0
86-74-8	Carbazole	Not Detected	300		1.0
218-01-9	Chrysene	Not Detected	120		1.0
53-70-3	Dibenz[a,h]anthracene	Not Detected	240		1.0
152-64-9	Dibenzofuran	Not Detected	300		1.0
84-66-2	Diethylphthalate	Not Detected	300		1.0
131-11-3	Dimethyl phthalate	Not Detected	300		1.0
84-74-2	Di-n-butyl phthalate	Not Detected	300		1.0
117-84-0	Di-n-octyl phthalate	Not Detected	300		1.0
206-44-0	Fluoranthene	Not Detected	120		1.0
86-73-7	Fluorene	Not Detected	120		1.0
118-74-1	Hexachlorobenzene	Not Detected	240		1.0
87-68-3	Hexachlorobutadiene	Not Detected	120	Z	1.0
77-47-4	Hexachlorocyclopentadiene	Not Detected	1200	Z	1.0
67-72-1	Hexachloroethane	Not Detected	120		1.0
193-39-5	Indeno(1,2,3-c,d)pyrene	Not Detected	240		1.0
78-59-1	Isophorone	Not Detected	120		1.0
91-20-3	Naphthalene	Not Detected	120		1.0
98-95-3	Nitrobenzene	Not Detected	240		1.0
67-75-9	N-Nitrosodimethylamine	Not Detected	300		1.0
621-64-7	N-Nitrosodi-n-propylamine	Not Detected	240		1.0
86-30-6	N-Nitrosodiphenylamine	Not Detected	240		1.0
87-86-5	Pentachlorophenol	Not Detected	2000	Z=800	1.0
85-01-8	Phenanthrene	Not Detected	120		1.0
108-95-2	Phenol	Not Detected	390		1.0
129-00-0	Pyrene	Not Detected	120		1.0

Volatile Compounds

Analytical Method: 8260 Date Tested: 05/07/2011 Analyst: SJR
Extraction Method: 5035 Extraction Date: 05/02/2011 Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
	##Weight of sample(grams)	10.70			
SURROGATE	#Bromofluorobenzene#	133			
SURROGATE	#Dibromofluoromethane#	152			
SURROGATE	#Toluene-d8#	143			

CAS# : Chemical Abstract Service Registry Number
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ND : Not Detected

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ug / Kg : microgram / kilogram (ppb)
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Sample Number: AB73258 SB-08

Volatile Compounds

Analytical Method: 8260 Date Tested: 05/07/2011 Analyst: SJR
Extraction Method: 5035 Extraction Date: 05/02/2011 Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
630-20-6	1,1,1,2-Tetrachloroethane	Not Detected	71		50
71-55-6	1,1,1-Trichloroethane	Not Detected	71		50
79-34-5	1,1,2,2-Tetrachloroethane	Not Detected	71		50
79-00-5	1,1,2-Trichloroethane	Not Detected	71		50
75-34-3	1,1-Dichloroethane	Not Detected	71		50
75-35-4	1,1-Dichloroethylene	Not Detected	71		50
87-61-6	1,2,3-Trichlorobenzene	Not Detected	350		50
96-18-4	1,2,3-Trichloropropane	Not Detected	71		50
526-73-8	1,2,3-Trimethylbenzene	Not Detected	71		50
120-82-1	1,2,4-Trichlorobenzene	Not Detected	350		50
95-63-6	1,2,4-Trimethylbenzene	Not Detected	71		50
96-12-8	1,2-Dibromo-3-chloropropane	Not Detected	350		50
106-93-4	1,2-Dibromoethane	Not Detected	71	Z	50
95-50-1	1,2-Dichlorobenzene	Not Detected	71		50
107-06-2	1,2-Dichloroethane	Not Detected	71		50
78-87-5	1,2-Dichloropropane	Not Detected	71		50
108-67-8	1,3,5-Trimethylbenzene	Not Detected	71		50
541-73-1	1,3-Dichlorobenzene	Not Detected	71		50
106-46-7	1,4-Dichlorobenzene	Not Detected	71		50
78-93-3	2-Butanone (MEK)	Not Detected	350	5	50
591-78-6	2-Hexanone	Not Detected	350		50
91-57-6	2-Methylnaphthalene	Not Detected	350	X	50
67-64-1	2-Propanone (acetone)	Not Detected	1400	5	50
108-10-1	4-Methyl-2-pentanone (MIBK)	Not Detected	350		50
107-13-1	Acrylonitrile	Not Detected	350	Z	50
71-43-2	Benzene	Not Detected	71		50
108-86-1	Bromobenzene	Not Detected	71		50
74-97-5	Bromochloromethane	Not Detected	71		50
75-27-4	Bromodichloromethane	Not Detected	71		50
75-25-2	Bromoform	Not Detected	71		50
74-83-9	Bromomethane	Not Detected	280		50
75-15-0	Carbon disulfide	Not Detected	71		50
56-23-5	Carbon tetrachloride	Not Detected	71		50
108-90-7	Chlorobenzene	Not Detected	71		50
75-00-3	Chloroethane	Not Detected	350		50
67-66-3	Chloroform	Not Detected	71		50
74-87-3	Chloromethane	Not Detected	350		50
156-59-2	cis-1,2-Dichloroethylene	Not Detected	71		50
10061-01-5	cis-1,3-Dichloropropylene	Not Detected	71		50
110-82-7	Cyclohexane	Not Detected	350		50

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Sample Number: AB73258 SB-08

Volatile Compounds

Analytical Method: 8260
Extraction Method: 5035

Date Tested: 05/07/2011
Extraction Date: 05/02/2011

Analyst: SJR
Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
124-48-1	Dibromochloromethane	Not Detected	71		50
74-95-3	Dibromomethane	Not Detected	71		50
75-71-8	Dichlorodifluoromethane	Not Detected	350		50
60-29-7	Diethyl ether	Not Detected	280		50
108-20-3	Diisopropyl Ether	Not Detected	350		50
100-41-4	Ethylbenzene	Not Detected	71		50
637-92-3	Ethyltertiarybutylether	Not Detected	350		50
67-72-1	Hexachloroethane	Not Detected	350	7	50
98-82-8	Isopropylbenzene	Not Detected	71		50
108383,106423	m & p - Xylene	Not Detected	140		50
74-88-4	Methyl iodide	Not Detected	71		50
75-09-2	Methylene chloride	Not Detected	140		50
1634-04-4	Methyltertiarybutylether	Not Detected	71		50
91-20-3	Naphthalene	Not Detected	350	X	50
104-51-8	n-Butylbenzene	Not Detected	71		50
103-65-1	n-Propylbenzene	Not Detected	71		50
95-47-6	o-Xylene	Not Detected	71		50
99-87-6	p-Isopropyl toluene	Not Detected	71		50
135-98-8	sec-Butylbenzene	Not Detected	71		50
100-42-5	Styrene	Not Detected	71		50
98-06-6	tert-Butylbenzene	Not Detected	71		50
75-65-0	tertiary Butyl Alcohol	Not Detected	3500		50
994-05-8	tertiary Amyl methyl ether	Not Detected	350		50
127-18-4	Tetrachloroethylene	Not Detected	71		50
109-99-9	Tetrahydrofuran	Not Detected	350		50
108-88-3	Toluene	Not Detected	71		50
156-60-5	trans-1,2-Dichloroethylene	Not Detected	71		50
10061-02-6	trans-1,3-Dichloropropylene	Not Detected	71		50
110-57-6	trans-1,4-Dichloro-2-butene	Not Detected	350	7Z	50
79-01-6	Trichloroethylene	Not Detected	71		50
75-69-4	Trichlorofluoromethane	Not Detected	71		50
75-01-4	Vinyl chloride	Not Detected	71	Z	50

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Sample Number: AB73258 SB-08

CAS#	Analyte Name	Result	Unit	RL	Qualifier	Date Tested	Method	Analyst
57-12-5	Cyanide - Sediment	ND	mg/Kg dry	0.1		05/11/2011	ASTM D 751	MB
	Cyanide-Extraction	Completed				05/10/2011	9013	MB
	Digest Mercury - Sediment	Completed				05/11/2011	7471	TS
7439-97-6	Mercury - Sediment	ND	mg/Kg dry	0.05		05/12/2011	7471	TS
7440-36-0	Antimony - Sediment	0.33	mg/Kg dry	0.3		05/21/2011	6020	KS
7440-38-2	Arsenic - Sediment	5.6	mg/Kg dry	0.5		05/18/2011	6020	KS
7440-39-3	Barium - Sediment	22	mg/Kg dry	1		05/18/2011	6020	KS
7440-41-7	Beryllium - Sediment	0.27	mg/Kg dry	0.2		05/18/2011	6020	KS
7440-43-9	Cadmium - Sediment	ND	mg/Kg dry	0.2		05/18/2011	6020	KS
7440-47-3	Chromium - Sediment	9.9	mg/Kg dry	2		05/18/2011	6020	KS
7440-48-4	Cobalt - Sediment	4.8	mg/Kg dry	.5		05/18/2011	6020	KS
7440-50-8	Copper - Sediment	12	mg/Kg dry	1		05/18/2011	6020	KS
	Digest Antimony - Sediment	Completed				05/20/2011	3050	WN
	Digest Metals - Sediment	Completed				05/17/2011	3050	WN
7439-89-6	Iron - Sediment	15000	mg/Kg dry	50	D	05/25/2011	6010	WN
7439-92-1	Lead - Sediment	4.9	mg/Kg dry	1		05/19/2011	6020	KS
7439-96-5	Manganese - Sediment	190	mg/Kg dry	1		05/18/2011	6020	KS
7439-98-7	Molybdenum - Sediment	ND	mg/Kg dry	1		05/18/2011	6020	KS
7440-02-0	Nickel - Sediment	11	mg/Kg dry	1		05/18/2011	6020	KS
7782-49-2	Selenium - Sediment	ND	mg/Kg dry	0.2		05/18/2011	6020	KS
7440-22-4	Silver - Sediment	ND	mg/Kg dry	0.1		05/18/2011	6020	KS
7440-28-0	Thallium - Sediment	ND	mg/Kg dry	0.5		05/18/2011	6020	KS
7440-62-2	Vanadium - Sediment	16	mg/Kg dry	1		05/18/2011	6020	KS
7440-66-6	Zinc - Sediment	29	mg/Kg dry	1		05/18/2011	6020	KS
	% Total Solids	84.1	%	0.1		05/14/2011	2540B SM	KS
	Drying and Grinding - Sediment	COMPLETE				05/14/2011		KS
	Gel Permeation Cleanup-Pesticide/PCl	Completed				05/09/2011	3640	DT
	Gel Permeation Cleanup-SVOC Analy	Completed				05/05/2011	3640	DT

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Sample Number: AB73259 SB-09

Pesticides and PCBs

Analytical Method: 8081,8082 Date Tested: 05/11/2011 Analyst: MF
Extraction Method: 3545 Extraction Date: 05/03/2011 Qualifier:

CAS.#	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
SURROGATE	#Decachlorobiphenyl#	65.3			
SURROGATE	#Tetrachloro-m-xylene#	82.0			
72-54-8	4,4'-DDD	12	23	T	1.0
72-55-9	4,4'-DDE	420	120		5.0
50-29-3	4,4'-DDT	160	23		1.0
519-84-6	a-BHC	Not Detected	12		1.0
5103-71-9	a-Chlordane	Not Detected	23		1.0
309-00-2	Aldrin	Not Detected	23		1.0
12674-11-2	Aroclor 1016	Not Detected	120		1.0
11104-28-2	Aroclor 1221	Not Detected	120		1.0
11141-16-5	Aroclor 1232	Not Detected	120		1.0
53469-21-9	Aroclor 1242	Not Detected	120		1.0
12672-29-6	Aroclor 1248	Not Detected	120		1.0
11097-69-1	Aroclor 1254	Not Detected	120		1.0
11096-82-5	Aroclor 1260	Not Detected	120		1.0
57324-23-5	Aroclor 1262	Not Detected	120		1.0
11100-14-4	Aroclor 1268	Not Detected	120		1.0
519-85-7	b-BHC	Not Detected	23		1.0
319-86-8	d-BHC	Not Detected	23		1.0
60357-1	Dieldrin	Not Detected	23		1.0
959-98-8	Endosulfan I	Not Detected	23		1.0
33213-65-9	Endosulfan II	Not Detected	23		1.0
1031-07-8	Endosulfan sulfate	Not Detected	23		1.0
72-20-8	Endrin	Not Detected	23		1.0
7421-93-4	Endrin aldehyde	Not Detected	23		1.0
53494-70-5	Endrin ketone	Not Detected	23		1.0
58-89-9	g-BHC (Lindane)	Not Detected	23		1.0
5103-74-2	g-Chlordane	Not Detected	23		1.0
76-44-8	Heptachlor	Not Detected	23		1.0
1024-57-3	Heptachlor epoxide	Not Detected	23		1.0
87-82-1	Hexabromobenzene	Not Detected	120		1.0
72-43-5	Methoxychlor	Not Detected	58		1.0
2385-85-5	Mirex	Not Detected	58		1.0
59080-40-9	PBB (BP-6)	Not Detected	290		1.0
8001-35-2	Toxaphene	Not Detected	200		1.0

CAS# : Chemical Abstract Service Registry Number
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ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
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FAX: (517) 335-9600

Sample Number: AB73259 SB-09

Base Neutral Acid Compounds

Analytical Method: 8270 Date Tested: 05/12/2011 Analyst: SMH
Extraction Method: 3545 Extraction Date: 05/05/2011 Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
SURROGATE	#2-Fluorobiphenyl#	69.4			
SURROGATE	#2,4,6-Tribromophenol#	68.7			
SURROGATE	#2-Fluorophenol#	46.1			
SURROGATE	#Nitrobenzene - D5#	65.5			
SURROGATE	#Phenol - D6#	72.4			
SURROGATE	#p-Terphenyl-d14#	70.1			
120-82-1	1,2,4-Trichlorobenzene	Not Detected	230		1.0
95-95-4	2,4,5-Trichlorophenol	Not Detected	380		1.0
88-06-2	2,4,6-Trichlorophenol	Not Detected	380		1.0
120-83-2	2,4-Dichlorophenol	Not Detected	380		1.0
105-67-9	2,4-Dimethylphenol	Not Detected	380		1.0
51-28-5	2,4-Dinitrophenol	Not Detected	2000	Z	1.0
121-14-2	2,4-Dinitrotoluene	Not Detected	290		1.0
606-20-2	2,6-Dinitrotoluene	Not Detected	290		1.0
91-58-7	2-Chloronaphthalene	Not Detected	230		1.0
95-57-8	2-Chlorophenol	Not Detected	380		1.0
534-52-1	2-Methyl-4,6-dinitrophenol	Not Detected	2000	Z	1.0
91-57-6	2-Methylnaphthalene	Not Detected	290		1.0
95-48-7	2-Methylphenol (o-Cresol)	Not Detected	380		1.0
88-74-4	2-Nitroaniline	Not Detected	580		1.0
88-75-5	2-Nitrophenol	Not Detected	380		1.0
108394,106445	3 & 4-Methylphenol	Not Detected	770		1.0
99-09-2	3-Nitroaniline	Not Detected	580		1.0
101-55-3	4-Bromophenyl phenyl ether	Not Detected	230		1.0
59-50-7	4-Chloro-3-methyl-phenol	Not Detected	230		1.0
7005-72-3	4-Chlorodiphenylether	Not Detected	120		1.0
100-01-6	4-Nitroaniline	Not Detected	580		1.0
100-02-7	4-Nitrophenol	Not Detected	2000	Z	1.0
83-32-9	Acenaphthene	Not Detected	120		1.0
208-96-8	Acenaphthylene	Not Detected	120		1.0
120-12-7	Anthracene	Not Detected	120		1.0
103-33-3	Azobenzene	Not Detected	230		1.0
56-55-3	Benzo[a]anthracene	Not Detected	120		1.0
50-32-8	Benzo[a]pyrene	Not Detected	230		1.0
205-99-2	Benzo[b]fluoranthene	Not Detected	230		1.0
191-24-2	Benzo[ghi]perylene	Not Detected	230		1.0
207-08-9	Benzo[k]fluoranthene	Not Detected	230		1.0
100-51-6	Benzyl Alcohol	Not Detected	2900		1.0
111-91-1	Bis(2-chloroethoxy)methane	Not Detected	230		1.0
111-44-4	Bis(2-chloroethyl)ether	Not Detected	120		1.0

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

Laboratory Contacts
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Organic Unit Mgr: Carol Smith
Systems Mgmt Unit: George Krisztian



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TEL: (517) 335-9800
FAX: (517) 335-9600

Sample Number: AB73259 SB-09

Base Neutral Acid Compounds

Analytical Method: 8270 Date Tested: 05/12/2011 Analyst: SMH
Extraction Method: 3545 Extraction Date: 05/05/2011 Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
108-60-1	Bis(2-chloroisopropyl)ether	Not Detected	120		1.0
117-81-7	Bis(2-ethylhexyl)phthalate	Not Detected	290		1.0
85-68-7	Butyl benzyl phthalate	Not Detected	290		1.0
86-74-8	Carbazole	Not Detected	290		1.0
218-01-9	Chrysene	Not Detected	120		1.0
53-70-3	Dibenz[a,h]anthracene	Not Detected	230		1.0
132-64-9	Dibenzofuran	Not Detected	290		1.0
84-66-2	Diethylphthalate	Not Detected	290		1.0
131-11-3	Dimethyl phthalate	Not Detected	290		1.0
84-74-2	Di-n-butyl phthalate	Not Detected	290		1.0
117-84-0	Di-n-octyl phthalate	Not Detected	290		1.0
206-44-0	Fluoranthene	Not Detected	120		1.0
86-73-7	Fluorene	Not Detected	120		1.0
118-74-1	Hexachlorobenzene	Not Detected	230		1.0
87-68-3	Hexachlorobutadiene	Not Detected	120	Z	1.0
77-47-4	Hexachlorocyclopentadiene	Not Detected	1200	Z	1.0
67-72-1	Hexachloroethane	Not Detected	120		1.0
193-39-5	Indeno(1,2,3-c,d)pyrene	Not Detected	230		1.0
78-59-1	Isophorone	Not Detected	120		1.0
91-20-3	Naphthalene	Not Detected	120		1.0
98-95-3	Nitrobenzene	Not Detected	230		1.0
67-75-9	N-Nitrosodimethylamine	Not Detected	290		1.0
621-64-7	N-Nitrosodi-n-propylamine	Not Detected	230		1.0
86-30-6	N-Nitrosodiphenylamine	Not Detected	230		1.0
87-86-5	Pentachlorophenol	Not Detected	2000	Z-800	1.0
85-01-8	Phenanthrene	Not Detected	120		1.0
108-95-2	Phenol	Not Detected	380		1.0
129-00-0	Pyrene	Not Detected	120		1.0

Volatile Compounds

Analytical Method: 8260 Date Tested: 05/07/2011 Analyst: SJR
Extraction Method: 5035 Extraction Date: 05/02/2011 Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
	##Weight of sample(grams)	10.06			
SURROGATE	#Bromofluorobenzene#	129			
SURROGATE	#Dibromofluoromethane#	142			
SURROGATE	#Toluene-d8#	141			

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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Sample Number: AB73259 SB-09

Volatile Compounds

Analytical Method: 8260 Date Tested: 05/07/2011 Analyst: SJR
 Extraction Method: 5035 Extraction Date: 05/02/2011 Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
630-20-6	1,1,1,2-Tetrachloroethane	Not Detected	66		50
71-55-6	1,1,1-Trichloroethane	Not Detected	66		50
79-34-5	1,1,2,2-Tetrachloroethane	Not Detected	66		50
79-00-5	1,1,2-Trichloroethane	Not Detected	66		50
75-34-3	1,1-Dichloroethane	Not Detected	66		50
75-35-4	1,1-Dichloroethylene	Not Detected	66		50
87-61-6	1,2,3-Trichlorobenzene	Not Detected	330		50
96-18-4	1,2,3-Trichloropropane	Not Detected	66		50
526-73-8	1,2,3-Trimethylbenzene	Not Detected	66		50
120-82-1	1,2,4-Trichlorobenzene	Not Detected	330		50
95-63-6	1,2,4-Trimethylbenzene	Not Detected	66		50
96-12-8	1,2-Dibromo-3-chloropropane	Not Detected	330		50
106-93-4	1,2-Dibromoethane	Not Detected	66	Z	50
95-50-1	1,2-Dichlorobenzene	Not Detected	66		50
107-06-2	1,2-Dichloroethane	Not Detected	66		50
78-87-5	1,2-Dichloropropane	Not Detected	66		50
108-67-8	1,3,5-Trimethylbenzene	Not Detected	66		50
541-73-1	1,3-Dichlorobenzene	Not Detected	66		50
106-46-7	1,4-Dichlorobenzene	Not Detected	66		50
78-93-3	2-Butanone (MEK)	Not Detected	330	5	50
591-78-6	2-Hexanone	Not Detected	330		50
91-57-6	2-Methylnaphthalene	Not Detected	330	X	50
67-64-1	2-Propanone (acetone)	Not Detected	1300	5	50
108-10-1	4-Methyl-2-pentanone (MIBK)	Not Detected	330		50
107-13-1	Acrylonitrile	Not Detected	330	Z	50
71-43-2	Benzene	Not Detected	66		50
108-86-1	Bromobenzene	Not Detected	66		50
74-97-5	Bromochloromethane	Not Detected	66		50
75-27-4	Bromodichloromethane	Not Detected	66		50
75-25-2	Bromoform	Not Detected	66		50
74-83-9	Bromomethane	Not Detected	260		50
75-15-0	Carbon disulfide	Not Detected	66		50
56-23-5	Carbon tetrachloride	Not Detected	66		50
108-90-7	Chlorobenzene	Not Detected	66		50
75-00-3	Chloroethane	Not Detected	330		50
67-66-3	Chloroform	Not Detected	66		50
74-87-3	Chloromethane	Not Detected	330		50
156-59-2	cis-1,2-Dichloroethylene	Not Detected	66		50
10061-01-5	cis-1,3-Dichloropropylene	Not Detected	66		50
110-82-7	Cyclohexane	Not Detected	330		50

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Sample Number: AB73259 SB-09

Volatile Compounds

Analytical Method: 8260
Extraction Method: 5035

Date Tested: 05/07/2011
Extraction Date: 05/02/2011

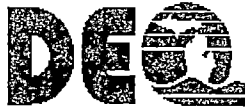
Analyst: SJR
Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
74-48-1	Dibromochloromethane	Not Detected	66		50
74-95-3	Dibromomethane	Not Detected	66		50
75-71-8	Dichlorodifluoromethane	Not Detected	330		50
60-29-7	Diethyl ether	Not Detected	260		50
108-20-3	Diisopropyl Ether	Not Detected	330		50
100-41-4	Ethylbenzene	Not Detected	66		50
937-92-3	Ethyltertiarybutylether	Not Detected	330		50
67-72-1	Hexachloroethane	Not Detected	330	7	50
98-82-8	Isopropylbenzene	Not Detected	66		50
108383,106423	m & p - Xylene	Not Detected	130		50
74-88-4	Methyl iodide	Not Detected	66		50
75-09-2	Methylene chloride	Not Detected	130		50
1634-04-4	Methyltertiarybutylether	Not Detected	66		50
91-20-3	Naphthalene	Not Detected	330	X	50
104-51-8	n-Butylbenzene	Not Detected	66		50
103-65-1	n-Propylbenzene	Not Detected	66		50
95-47-6	o-Xylene	Not Detected	66		50
99-87-6	p-Isopropyl toluene	Not Detected	66		50
135-98-8	sec-Butylbenzene	Not Detected	66		50
100-42-5	Styrene	Not Detected	66		50
98-06-6	tert-Butylbenzene	Not Detected	66		50
75-65-0	tertiary Butyl Alcohol	Not Detected	3300		50
994-05-8	tertiary Amyl methyl ether	Not Detected	330		50
127-18-4	Tetrachloroethylene	Not Detected	66		50
109-99-9	Tetrahydrofuran	Not Detected	330		50
108-88-3	Toluene	Not Detected	66		50
156-60-5	trans-1,2-Dichloroethylene	Not Detected	66		50
10061-02-6	trans-1,3-Dichloropropylene	Not Detected	66		50
110-57-6	trans-1,4-Dichloro-2-butene	Not Detected	330	7Z	50
79-01-6	Trichloroethylene	Not Detected	66		50
75-69-4	Trichlorofluoromethane	Not Detected	66		50
75-01-4	Vinyl chloride	Not Detected	66	Z	50

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Sample Number: AB73259 SB-09

CAS#	Analyte Name	Result	Unit	RL	Qualifier	Date Tested	Method	Analyst
57-12-5	Cyanide - Sediment	ND	mg/Kg dry	0.1		05/11/2011	ASTM D 751	MB
	Cyanide Extraction	Completed				05/10/2011	9013	MB
	Digest Mercury - Sediment	Completed				05/11/2011	7471	TS
7439-97-6	Mercury - Sediment	ND	mg/Kg dry	0.05		05/12/2011	7471	TS
7440-36-0	Antimony - Sediment	ND	mg/Kg dry	0.3		05/21/2011	6020	KS
7440-38-2	Arsenic - Sediment	5.8	mg/Kg dry	0.5		05/18/2011	6020	KS
7440-39-3	Barium - Sediment	24	mg/Kg dry	1		05/18/2011	6020	KS
7440-41-7	Beryllium - Sediment	0.29	mg/Kg dry	0.2		05/18/2011	6020	KS
7440-43-9	Cadmium - Sediment	ND	mg/Kg dry	0.2		05/18/2011	6020	KS
7440-47-3	Chromium - Sediment	12	mg/Kg dry	2		05/18/2011	6020	KS
7440-48-4	Cobalt - Sediment	4.1	mg/Kg dry	.5		05/18/2011	6020	KS
7440-50-8	Copper - Sediment	12	mg/Kg dry	1		05/18/2011	6020	KS
	Digest Antimony - Sediment	Completed				05/20/2011	3050	WN
	Digest Metals - Sediment	Completed				05/17/2011	3050	WN
7439-89-6	Iron - Sediment	13000	mg/Kg dry	50	D	05/25/2011	6010	WN
7439-92-1	Lead - Sediment	5.9	mg/Kg dry	1		05/18/2011	6020	KS
7439-96-5	Manganese - Sediment	350	mg/Kg dry	1		05/18/2011	6020	KS
7439-98-7	Molybdenum - Sediment	ND	mg/Kg dry	1		05/18/2011	6020	KS
7440-02-0	Nickel - Sediment	12	mg/Kg dry	1		05/18/2011	6020	KS
7782-49-2	Selenium - Sediment	ND	mg/Kg dry	0.2		05/18/2011	6020	KS
7440-22-4	Silver - Sediment	ND	mg/Kg dry	0.1		05/18/2011	6020	KS
7440-28-0	Thallium - Sediment	ND	mg/Kg dry	0.5		05/18/2011	6020	KS
7440-62-2	Vanadium - Sediment	17	mg/Kg dry	1		05/18/2011	6020	KS
7440-66-6	Zinc - Sediment	29	mg/Kg dry	1		05/18/2011	6020	KS
	% Total Solids	86.2	%	0.1		05/14/2011	2540B SM	KS
	Drying and Grinding - Sediment	COMPLETE				05/14/2011		KS
	Gel Permeation Cleanup-Pesticide/PCI	Completed				05/09/2011	3640	DT
	Gel Permeation Cleanup-SVOC Analy	Completed				05/05/2011	3640	DT

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Sample Number: AB73260 SB-10

Pesticides and PCBs

Analytical Method: 8081,8082
Extraction Method: 3545

Date Tested: 05/12/2011
Extraction Date: 05/03/2011

Analyst: MF
Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
SURROGATE	#Decachlorobiphenyl#	43.5			
SURROGATE	#Tetrachloro-m-xylene#	72.8			
72-54-8	4,4'-DDD	Not Detected	24		1.0
72-55-9	4,4'-DDE	Not Detected	24		1.0
50-29-3	4,4'-DDT	Not Detected	120	K	5.0
319-84-6	a-BHC	Not Detected	12		1.0
5103-71-9	a-Chlordane	Not Detected	24		1.0
509-00-2	Aldrin	Not Detected	24		1.0
12674-11-2	Aroclor 1016	Not Detected	120		1.0
11104-28-2	Aroclor 1221	Not Detected	120		1.0
11141-16-5	Aroclor 1232	Not Detected	120		1.0
53469-21-9	Aroclor 1242	Not Detected	120		1.0
12672-29-6	Aroclor 1248	Not Detected	120		1.0
11097-69-1	Aroclor 1254	Not Detected	120		1.0
11096-82-5	Aroclor 1260	Not Detected	120		1.0
37324-23-5	Aroclor 1262	Not Detected	120		1.0
11100-14-4	Aroclor 1268	Not Detected	120		1.0
319-85-7	b-BHC	Not Detected	24		1.0
319-86-8	d-BHC	Not Detected	24		1.0
60-57-1	Dieldrin	Not Detected	24		1.0
959-98-8	Endosulfan I	Not Detected	24		1.0
33213-65-9	Endosulfan II	Not Detected	24		1.0
1031-07-8	Endosulfan sulfate	Not Detected	24		1.0
72-20-8	Endrin	Not Detected	24		1.0
7421-93-4	Endrin aldehyde	Not Detected	24		1.0
53494-70-5	Endrin ketone	Not Detected	24		1.0
58-89-9	g-BHC (Lindane)	Not Detected	24		1.0
5103-74-2	g-Chlordane	Not Detected	24		1.0
76-44-8	Heptachlor	Not Detected	24		1.0
1024-57-3	Heptachlor epoxide	Not Detected	24		1.0
87-82-1	Hexabromobenzene	Not Detected	120		1.0
72-43-5	Methoxychlor	Not Detected	290	K	5.0
2385-85-5	Mirex	Not Detected	59		1.0
59080-40-9	PBB (BP-6)	Not Detected	290		1.0
8001-35-2	Toxaphene	Not Detected	200		1.0

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ug / Kg : microgram / kilogram (ppb)
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Sample Number: AB73260 SB-10

Base Neutral Acid Compounds

Analytical Method: 8270 Date Tested: 05/12/2011 Analyst: SMH
Extraction Method: 3545 Extraction Date: 05/05/2011 Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
SURROGATE	#2-Fluorobiphenyl#	66.7			
SURROGATE	#2,4,6-Tribromophenol#	69.0			
SURROGATE	#2-Fluorophenol#	57.0			
SURROGATE	#Nitrobenzene - D5#	56.5			
SURROGATE	#Phenol - D6#	64.9			
SURROGATE	#p-Terphenyl-d14#	73.2			
120-82-1	1,2,4-Trichlorobenzene	Not Detected	240		1.0
95-95-4	2,4,5-Trichlorophenol	Not Detected	390		1.0
88-06-2	2,4,6-Trichlorophenol	Not Detected	390		1.0
120-83-2	2,4-Dichlorophenol	Not Detected	390		1.0
105-67-9	2,4-Dimethylphenol	Not Detected	390		1.0
51-28-5	2,4-Dinitrophenol	Not Detected	2000	Z	1.0
121-14-2	2,4-Dinitrotoluene	Not Detected	290		1.0
606-20-2	2,6-Dinitrotoluene	Not Detected	290		1.0
91-58-7	2-Chloronaphthalene	Not Detected	240		1.0
95-57-8	2-Chlorophenol	Not Detected	390		1.0
534-52-1	2-Methyl-4,6-dinitrophenol	Not Detected	2000	Z	1.0
91-57-6	2-Methylnaphthalene	Not Detected	290		1.0
95-48-7	2-Methylphenol (o-Cresol)	Not Detected	390		1.0
88-74-4	2-Nitroaniline	Not Detected	590		1.0
88-75-5	2-Nitrophenol	Not Detected	390		1.0
108394,106445	3 & 4-Methylphenol	Not Detected	780		1.0
99-09-2	3-Nitroaniline	Not Detected	590		1.0
101-55-3	4-Bromophenyl phenyl ether	Not Detected	240		1.0
59-50-7	4-Chloro-3-methylphenol	Not Detected	240		1.0
7005-72-3	4-Chlorodiphenylether	Not Detected	120		1.0
100-01-6	4-Nitroaniline	Not Detected	590		1.0
100-02-7	4-Nitrophenol	Not Detected	2000	Z	1.0
83-32-9	Acenaphthene	Not Detected	120		1.0
208-96-8	Acenaphthylene	Not Detected	120		1.0
120-12-7	Anthracene	120	120		1.0
103-33-3	Azobenzene	Not Detected	240		1.0
56-55-3	Benzo[a]anthracene	560	120		1.0
50-32-8	Benzo[a]pyrene	520	240		1.0
205-99-2	Benzo[b]fluoranthene	740	240		1.0
191-24-2	Benzo[g,h,i]perylene	Not Detected	240		1.0
207-08-9	Benzo[k]fluoranthene	290	240		1.0
100-51-6	Benzyl Alcohol	Not Detected	2900		1.0
111-91-1	Bis(2-chloroethoxy)methane	Not Detected	240		1.0
111-44-4	Bis(2-chloroethyl)ether	Not Detected	120		1.0

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
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Sample Number: AB73260 SB-10

Base Neutral Acid Compounds

Analytical Method: 8270 Date Tested: 05/12/2011 Analyst: SMH
Extraction Method: 3545 Extraction Date: 05/05/2011 Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
108-60-1	Bis(2-chloroisopropyl)ether	Not Detected	120		1.0
117-81-7	Bis(2-ethylhexyl)phthalate	Not Detected	290		1.0
85-68-7	Butyl benzyl phthalate	Not Detected	290		1.0
86-74-8	Carbazole	Not Detected	290		1.0
218-01-9	Chrysene	640	120		1.0
53-70-3	Dibenz[a,h]anthracene	Not Detected	240		1.0
132-64-9	Dibenzofuran	Not Detected	290		1.0
84-66-2	Diethylphthalate	Not Detected	290		1.0
131-11-3	Dimethyl phthalate	Not Detected	290		1.0
84-74-2	Di-n-butyl phthalate	Not Detected	290		1.0
117-84-0	Di-n-octyl phthalate	Not Detected	290		1.0
206-44-0	Fluoranthene	1400	120		1.0
86-73-7	Fluorene	Not Detected	120		1.0
118-74-1	Hexachlorobenzene	Not Detected	240		1.0
87-68-3	Hexachlorobutadiene	Not Detected	120	Z	1.0
77-47-4	Hexachlorocyclopentadiene	Not Detected	1200	Z	1.0
67-72-1	Hexachloroethane	Not Detected	120		1.0
193-39-5	Indeno(1,2,3-c,d)pyrene	Not Detected	240		1.0
78-59-1	Isophorone	Not Detected	120		1.0
91-20-3	Naphthalene	Not Detected	120		1.0
98-95-3	Nitrobenzene	Not Detected	240		1.0
67-75-9	N-Nitrosodimethylamine	Not Detected	290		1.0
621-64-7	N-Nitrosodi-n-propylamine	Not Detected	240		1.0
86-30-6	N-Nitrosodiphenylamine	Not Detected	240		1.0
87-86-5	Pentachlorophenol	Not Detected	2000	Z=800	1.0
85-01-8	Phenanthrene	830	120		1.0
108-95-2	Phenol	Not Detected	390		1.0
129-00-0	Pyrene	1100	120		1.0

Volatile Compounds

Analytical Method: 8260 Date Tested: 05/07/2011 Analyst: SJR
Extraction Method: 5035 Extraction Date: 05/02/2011 Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
	##Weight of sample(grams)	10.34			
SURROGATE	#Bromofluorobenzene#	122			
SURROGATE	#Dibromofluoromethane#	139			
SURROGATE	#Toluene-d8#	134			

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

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mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
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Sample Number: AB73260 SB-10

Volatile Compounds

Analytical Method: 8260 Date Tested: 05/07/2011 Analyst: SJR
Extraction Method: 5035 Extraction Date: 05/02/2011 Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
630-20-6	1,1,1,2-Tetrachloroethane	Not Detected	66		50
71-55-6	1,1,1-Trichloroethane	Not Detected	66		50
79-34-5	1,1,2,2-Tetrachloroethane	Not Detected	66		50
79-00-5	1,1,2-Trichloroethane	Not Detected	66		50
75-34-3	1,1-Dichloroethane	Not Detected	66		50
75-35-4	1,1-Dichloroethylene	Not Detected	66		50
87-61-6	1,2,3-Trichlorobenzene	Not Detected	330		50
96-18-4	1,2,3-Trichloropropane	Not Detected	66		50
526-73-8	1,2,3-Trimethylbenzene	Not Detected	66		50
120-82-1	1,2,4-Trichlorobenzene	Not Detected	330		50
95-63-6	1,2,4-Trimethylbenzene	Not Detected	66		50
96-12-8	1,2-Dibromo-3-chloropropane	Not Detected	330		50
106-93-4	1,2-Dibromoethane	Not Detected	66	Z	50
95-50-1	1,2-Dichlorobenzene	Not Detected	66		50
107-06-2	1,2-Dichloroethane	Not Detected	66		50
78-87-5	1,2-Dichloropropane	Not Detected	66		50
108-67-8	1,3,5-Trimethylbenzene	Not Detected	66		50
541-73-1	1,3-Dichlorobenzene	Not Detected	66		50
106-46-7	1,4-Dichlorobenzene	Not Detected	66		50
78-93-3	2-Butanone (MEK)	Not Detected	330		50
591-78-6	2-Hexanone	Not Detected	330		50
91-57-6	2-Methylnaphthalene	Not Detected	330	X 7	50
67-64-1	2-Propanone (acetone)	Not Detected	1300	5	50
108-10-1	4-Methyl-2-pentanone (MIBK)	Not Detected	330		50
107-13-1	Acrylonitrile	Not Detected	330	Z	50
71-43-2	Benzene	Not Detected	66		50
108-86-1	Bromobenzene	Not Detected	66		50
74-97-5	Bromochloromethane	Not Detected	66		50
75-27-4	Bromodichloromethane	Not Detected	66		50
75-25-2	Bromoform	Not Detected	66		50
74-83-9	Bromomethane	Not Detected	260		50
75-15-0	Carbon disulfide	Not Detected	66		50
56-23-5	Carbon tetrachloride	Not Detected	66		50
108-90-7	Chlorobenzene	Not Detected	66		50
75-00-3	Chloroethane	Not Detected	330		50
67-66-3	Chloroform	Not Detected	66		50
74-87-3	Chloromethane	Not Detected	330		50
156-59-2	cis-1,2-Dichloroethylene	Not Detected	66		50
10061-01-5	cis-1,3-Dichloropropylene	Not Detected	66		50
110-82-7	Cyclohexane	Not Detected	330		50

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Sample Number: AB73260 SB-10

Volatile Compounds

Analytical Method: 8260
Extraction Method: 5035

Date Tested: 05/07/2011
Extraction Date: 05/02/2011

Analyst: SJR
Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
124-48-1	Dibromochloromethane	Not Detected	66		50
74-95-3	Dibromomethane	Not Detected	66		50
75-71-8	Dichlorodifluoromethane	Not Detected	330		50
60-29-7	Diethyl ether	Not Detected	260		50
108-20-3	Diisopropyl Ether	Not Detected	330		50
100-41-4	Ethylbenzene	Not Detected	66		50
657-92-3	Ethyltertiarybutylether	Not Detected	330		50
67-72-1	Hexachloroethane	Not Detected	330		50
98-82-8	Isopropylbenzene	Not Detected	66		50
108383,106423	m & p - Xylene	Not Detected	130		50
74-88-4	Methyl iodide	Not Detected	66		50
75-09-2	Methylene chloride	Not Detected	130		50
1634-04-4	Methyltertiarybutylether	Not Detected	66		50
91-20-3	Naphthalene	Not Detected	330	X	50
104-51-8	n-Butylbenzene	Not Detected	66		50
103-65-1	n-Propylbenzene	Not Detected	66		50
95-47-6	o-Xylene	Not Detected	66		50
99-87-6	p-Isopropyl toluene	Not Detected	66		50
135-98-8	sec-Butylbenzene	Not Detected	66		50
100-42-5	Styrene	Not Detected	66		50
98-06-6	tert-Butylbenzene	Not Detected	66		50
75-65-0	tertiary Butyl Alcohol	Not Detected	3300		50
994-05-8	tertiary Amyl methyl ether	Not Detected	330		50
127-18-4	Tetrachloroethylene	Not Detected	66		50
109-99-9	Tetrahydrofuran	Not Detected	330		50
108-88-3	Toluene	Not Detected	66		50
156-60-5	trans-1,2-Dichloroethylene	Not Detected	66		50
10061-02-6	trans-1,3-Dichloropropylene	Not Detected	66		50
110-57-6	trans-1,4-Dichloro-2-butene	Not Detected	330	Z	50
79-01-6	Trichloroethylene	Not Detected	66		50
75-69-4	Trichlorofluoromethane	Not Detected	66		50
75-01-4	Vinyl chloride	Not Detected	66	Z	50

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Sample Number: AB73260 SB-10

CAS#	Analyte Name	Result	Unit	RL	Qualifier	Date Tested	Method	Analyst
57-12-5	Cyanide - Sediment	ND	mg/Kg dry	0.1		05/11/2011	ASTM D 751	MB
	Cyanide-Extraction	Completed				05/10/2011	9013	MB
	Digest Mercury - Sediment	Completed				05/11/2011	7471	TS
7439-97-6	Mercury - Sediment	ND	mg/Kg dry	0.05		05/12/2011	7471	TS
7440-36-0	Antimony - Sediment	ND	mg/Kg dry	0.3		05/21/2011	6020	KS
7440-38-2	Arsenic - Sediment	4.4	mg/Kg dry	0.5		05/18/2011	6020	KS
7440-39-3	Barium - Sediment	44	mg/Kg dry	1		05/18/2011	6020	KS
7440-41-7	Beryllium - Sediment	0.44	mg/Kg dry	0.2		05/18/2011	6020	KS
7440-43-9	Cadmium - Sediment	0.21	mg/Kg dry	0.2		05/18/2011	6020	KS
7440-47-3	Chromium - Sediment	15	mg/Kg dry	2		05/18/2011	6020	KS
7440-48-4	Cobalt - Sediment	5.8	mg/Kg dry	.5		05/18/2011	6020	KS
7440-50-8	Copper - Sediment	11	mg/Kg dry	1		05/18/2011	6020	KS
	Digest Antimony - Sediment	Completed				05/20/2011	3050	WN
	Digest Metals - Sediment	Completed				05/17/2011	3050	WN
7439-89-6	Iron - Sediment	17000	mg/Kg dry	50	D	05/25/2011	6010	WN
7439-92-1	Lead - Sediment	11	mg/Kg dry	1		05/18/2011	6020	KS
7439-96-5	Manganese - Sediment	360	mg/Kg dry	1		05/18/2011	6020	KS
7439-98-7	Molybdenum - Sediment	1.2	mg/Kg dry	1		05/18/2011	6020	KS
7440-02-0	Nickel - Sediment	12	mg/Kg dry	1		05/18/2011	6020	KS
7782-49-2	Selenium - Sediment	0.28	mg/Kg dry	0.2		05/18/2011	6020	KS
7440-22-4	Silver - Sediment	ND	mg/Kg dry	0.1		05/18/2011	6020	KS
7440-28-0	Thallium - Sediment	ND	mg/Kg dry	0.5		05/18/2011	6020	KS
7440-62-2	Vanadium - Sediment	20	mg/Kg dry	1		05/18/2011	6020	KS
7440-66-6	Zinc - Sediment	33	mg/Kg dry	1		05/18/2011	6020	KS
	% Total Solids	85.0	%	0.1		05/14/2011	2540B SM	KS
	Drying and Grinding - Sediment	COMPLETE				05/14/2011		KS
	Gel Permeation Cleanup-Pesticide/PCI	Completed				05/09/2011	3640	DT
	Gel Permeation Cleanup-SVOC Analy	Completed				05/05/2011	3640	DT

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Sample Number: AB73261 SB-11

Pesticides and PCBs

Analytical Method: 8081,8082
Extraction Method: 3545

Date Tested: 05/12/2011
Extraction Date: 05/03/2011

Analyst: MF
Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
SURROGATE	#Decachlorobiphenyl#	63.9			
SURROGATE	#Tetrachloro-m-xylene#	75.6			
72-54-8	4,4'-DDD	Not Detected	22		1.0
72-55-9	4,4'-DDE	Not Detected	22		1.0
50-29-3	4,4'-DDT	Not Detected	22		1.0
319-84-6	a-BHC	Not Detected	11		1.0
5103-71-9	a-Chlordane	Not Detected	22		1.0
309-00-2	Aldrin	Not Detected	22		1.0
12674-11-2	Aroclor 1016	Not Detected	110		1.0
11104-28-2	Aroclor 1221	Not Detected	110		1.0
11141-16-5	Aroclor 1232	Not Detected	110		1.0
53469-21-9	Aroclor 1242	Not Detected	110		1.0
12672-29-6	Aroclor 1248	Not Detected	110		1.0
11097-69-1	Aroclor 1254	Not Detected	110		1.0
11096-82-5	Aroclor 1260	Not Detected	110		1.0
37324-23-5	Aroclor 1262	Not Detected	110		1.0
11100-14-4	Aroclor 1268	Not Detected	110		1.0
319-85-7	b-BHC	Not Detected	22		1.0
319-86-8	d-BHC	Not Detected	22		1.0
60-57-1	Dieldrin	Not Detected	22		1.0
959-98-8	Endosulfan I	Not Detected	22		1.0
33213-65-9	Endosulfan II	Not Detected	22		1.0
1031-07-8	Endosulfan sulfate	Not Detected	22		1.0
72-20-8	Endrin	Not Detected	22		1.0
7421-93-4	Endrin aldehyde	Not Detected	22		1.0
53494-70-5	Endrin ketone	Not Detected	22		1.0
58-89-9	g-BHC (Lindane)	Not Detected	22		1.0
5103-74-2	g-Chlordane	Not Detected	22		1.0
76-44-8	Heptachlor	Not Detected	22		1.0
1024-57-3	Heptachlor epoxide	Not Detected	22		1.0
87-82-1	Hexabromobenzene	Not Detected	110		1.0
72-43-5	Methoxychlor	Not Detected	55		1.0
2385-85-5	Mirex	Not Detected	55		1.0
59080-40-9	PBB (BP-6)	Not Detected	280		1.0
8001-35-2	Toxaphene	Not Detected	190		1.0

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Sample Number: AB73261 SB-11

Base Neutral Acid Compounds

Analytical Method: 8270
 Extraction Method: 3545

Date Tested: 05/12/2011
 Extraction Date: 05/05/2011

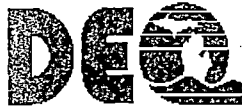
Analyst: SMH
 Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
SURROGATE	#2-Fluorobiphenyl#	68.4			
SURROGATE	#2,4,6-Tribromophenol#	70.7			
SURROGATE	#2-Fluorophenol#	67.0			
SURROGATE	#Nitrobenzene - D5#	61.8			
SURROGATE	#Phenol - D6#	75.9			
SURROGATE	#p-Terphenyl-d14#	72.8			
120-82-1	1,2,4-Trichlorobenzene	Not Detected	220		1.0
95-95-4	2,4,5-Trichlorophenol	Not Detected	360		1.0
88-06-2	2,4,6-Trichlorophenol	Not Detected	360		1.0
120-83-2	2,4-Dichlorophenol	Not Detected	360		1.0
105-67-9	2,4-Dimethylphenol	Not Detected	360		1.0
51-28-5	2,4-Dinitrophenol	Not Detected	1900	Z	1.0
121-14-2	2,4-Dinitrotoluene	Not Detected	280		1.0
606-20-2	2,6-Dinitrotoluene	Not Detected	280		1.0
91-58-7	2-Chloronaphthalene	Not Detected	220		1.0
95-57-8	2-Chlorophenol	Not Detected	360		1.0
534-52-1	2-Methyl-4,6-dinitrophenol	Not Detected	1900	Z	1.0
91-57-6	2-Methylnaphthalene	Not Detected	280		1.0
95-48-7	2-Methylphenol (o-Cresol)	Not Detected	360		1.0
88-74-4	2-Nitroaniline	Not Detected	550		1.0
88-75-5	2-Nitrophenol	Not Detected	360		1.0
108394,106445	3 & 4-Methylphenol	Not Detected	730		1.0
99-09-2	3-Nitroaniline	Not Detected	550		1.0
101-55-3	4-Bromophenyl phenyl ether	Not Detected	220		1.0
59-50-7	4-Chloro-3-methylphenol	Not Detected	220		1.0
7005-72-3	4-Chlorodiphenylether	Not Detected	110		1.0
100-01-6	4-Nitroaniline	Not Detected	550		1.0
100-02-7	4-Nitrophenol	Not Detected	1900	Z	1.0
83-32-9	Acenaphthene	Not Detected	110		1.0
208-96-8	Acenaphthylene	Not Detected	110		1.0
120-12-7	Anthracene	Not Detected	110		1.0
103-33-3	Azobenzene	Not Detected	220		1.0
56-55-3	Benzo[a]anthracene	Not Detected	110		1.0
50-32-8	Benzo[a]pyrene	Not Detected	220		1.0
205-99-2	Benzo[b]fluoranthene	Not Detected	220		1.0
191-24-2	Benzo[g,h,i]perylene	Not Detected	220		1.0
207-08-9	Benzo[k]fluoranthene	Not Detected	220		1.0
100-51-6	Benzyl Alcohol	Not Detected	2800		1.0
111-91-1	Bis(2-chloroethoxy)methane	Not Detected	220		1.0
111-44-4	Bis(2-chloroethyl)ether	Not Detected	110		1.0

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Sample Number: AB73261 SB-11

Base Neutral Acid Compounds

Analytical Method: 8270 Date Tested: 05/12/2011 Analyst: SMH
Extraction Method: 3545 Extraction Date: 05/05/2011 Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
108-60-1	Bis(2-chloroisopropyl)ether	Not Detected	110		1.0
117-81-7	Bis(2-ethylhexyl)phthalate	Not Detected	280		1.0
85-68-7	Butyl benzyl phthalate	Not Detected	280		1.0
86-74-8	Carbazole	Not Detected	280		1.0
218-01-9	Chrysene	Not Detected	110		1.0
53-70-3	Dibenz[a,h]anthracene	Not Detected	220		1.0
132-64-9	Dibenzofuran	Not Detected	280		1.0
84-66-2	Diethylphthalate	Not Detected	280		1.0
131-11-3	Dimethyl phthalate	Not Detected	280		1.0
84-74-2	Di-n-butyl phthalate	Not Detected	280		1.0
117-84-0	Di-n-octyl phthalate	Not Detected	280		1.0
206-44-0	Fluoranthene	140	110		1.0
86-73-7	Fluorene	Not Detected	110		1.0
118-74-1	Hexachlorobenzene	Not Detected	220		1.0
87-68-3	Hexachlorobutadiene	Not Detected	110	Z	1.0
77-47-4	Hexachlorocyclopentadiene	Not Detected	1100	Z	1.0
67-72-1	Hexachloroethane	Not Detected	110		1.0
193-39-5	Indeno(1,2,3-c,d)pyrene	Not Detected	220		1.0
78-59-1	Isophorone	Not Detected	110		1.0
91-20-3	Naphthalene	Not Detected	110		1.0
98-95-3	Nitrobenzene	Not Detected	220		1.0
67-75-9	N-Nitrosodimethylamine	Not Detected	280		1.0
621-64-7	N-Nitrosodi-n-propylamine	Not Detected	220		1.0
86-30-6	N-Nitrosodiphenylamine	Not Detected	220		1.0
87-86-5	Pentachlorophenol	Not Detected	1900	Z=800	1.0
85-01-8	Phenanthrene	Not Detected	110		1.0
108-95-2	Phenol	Not Detected	360		1.0
129-00-0	Pyrene	140	110		1.0

Volatile Compounds

Analytical Method: 8260 Date Tested: 05/07/2011 Analyst: SJR
Extraction Method: 5035 Extraction Date: 05/02/2011 Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
	##Weight of sample(grams)	9.71			
SURROGATE	#Bromofluorobenzene#	115			
SURROGATE	#Dibromofluoromethane#	132			
SURROGATE	#Toluene-d8#	129			

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

Laboratory Contacts
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Systems Mgmt Unit: George Krisztian



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Sample Number: AB73261 SB-11

Volatile Compounds

Analytical Method: 8260
Extraction Method: 5035

Date Tested: 05/07/2011
Extraction Date: 05/02/2011

Analyst: SJR
Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
630-20-6	1,1,1,2-Tetrachloroethane	Not Detected	62		50
71-55-6	1,1,1-Trichloroethane	Not Detected	62		50
79-34-5	1,1,2,2-Tetrachloroethane	Not Detected	62		50
79-00-5	1,1,2-Trichloroethane	Not Detected	62		50
75-34-3	1,1-Dichloroethane	Not Detected	62		50
75-35-4	1,1-Dichloroethylene	Not Detected	62		50
87-61-6	1,2,3-Trichlorobenzene	Not Detected	310		50
96-18-4	1,2,3-Trichloropropane	Not Detected	62		50
526-73-8	1,2,3-Trimethylbenzene	Not Detected	62		50
120-82-1	1,2,4-Trichlorobenzene	Not Detected	310		50
95-63-6	1,2,4-Trimethylbenzene	Not Detected	62		50
96-12-8	1,2-Dibromo-3-chloropropane	Not Detected	310		50
106-93-4	1,2-Dibromoethane	Not Detected	62	Z	50
95-50-1	1,2-Dichlorobenzene	Not Detected	62		50
107-06-2	1,2-Dichloroethane	Not Detected	62		50
78-87-5	1,2-Dichloropropane	Not Detected	62		50
108-67-8	1,3,5-Trimethylbenzene	Not Detected	62		50
541-73-1	1,3-Dichlorobenzene	Not Detected	62		50
106-46-7	1,4-Dichlorobenzene	Not Detected	62		50
78-93-3	2-Butanone (MEK)	Not Detected	310		50
591-78-6	2-Hexanone	Not Detected	310		50
91-57-6	2-Methylnaphthalene	Not Detected	310	X7	50
67-64-1	2-Propanone (acetone)	Not Detected	1200	5	50
108-10-1	4-Methyl-2-pentanone (MIBK)	Not Detected	310		50
107-13-1	Acrylonitrile	Not Detected	310	Z	50
71-43-2	Benzene	Not Detected	62		50
108-86-1	Bromobenzene	Not Detected	62		50
74-97-5	Bromochloromethane	Not Detected	62		50
75-27-4	Bromodichloromethane	Not Detected	62		50
75-25-2	Bromoform	Not Detected	62		50
74-83-9	Bromomethane	Not Detected	250		50
75-15-0	Carbon disulfide	Not Detected	62		50
56-23-5	Carbon tetrachloride	Not Detected	62		50
108-90-7	Chlorobenzene	Not Detected	62		50
75-00-3	Chloroethane	Not Detected	310		50
67-66-3	Chloroform	Not Detected	62		50
74-87-3	Chloromethane	Not Detected	310		50
156-59-2	cis-1,2-Dichloroethylene	Not Detected	62		50
10061-01-5	cis-1,3-Dichloropropylene	Not Detected	62		50
110-82-7	Cyclohexane	Not Detected	310		50

CAS# : Chemical Abstract Service Registry Number
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mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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Sample Number: AB73261 SB-11

Volatile Compounds

Analytical Method: 8260
Extraction Method: 5035

Date Tested: 05/07/2011
Extraction Date: 05/02/2011

Analyst: SJR
Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
124-48-1	Dibromochloromethane	Not Detected	62		50
74-95-3	Dibromomethane	Not Detected	62		50
75-71-8	Dichlorodifluoromethane	Not Detected	310		50
60-29-7	Diethyl ether	Not Detected	250		50
108-20-3	Diisopropyl Ether	Not Detected	310		50
100-41-4	Ethylbenzene	Not Detected	62		50
637-92-3	Ethyl tertiarybutylether	Not Detected	310		50
67-72-1	Hexachloroethane	Not Detected	310		50
98-82-8	Isopropylbenzene	Not Detected	62		50
108383,106423	m & p - Xylene	Not Detected	120		50
74-88-4	Methyl iodide	Not Detected	62		50
75-09-2	Methylene chloride	Not Detected	120		50
1634-04-4	Methyl tertiarybutylether	Not Detected	62		50
91-20-3	Naphthalene	Not Detected	310	X	50
104-51-8	n-Butylbenzene	Not Detected	62		50
103-65-1	n-Propylbenzene	Not Detected	62		50
95-47-6	o-Xylene	Not Detected	62		50
99-87-6	p-Isopropyl toluene	Not Detected	62		50
135-98-8	sec-Butylbenzene	Not Detected	62		50
100-42-5	Styrene	Not Detected	62		50
98-06-6	tert-Butylbenzene	Not Detected	62		50
75-65-0	tertiary Butyl Alcohol	Not Detected	3100		50
994-05-8	tertiary Amyl methyl ether	Not Detected	310		50
127-18-4	Tetrachloroethylene	Not Detected	62		50
109-99-9	Tetrahydrofuran	Not Detected	310		50
108-88-3	Toluene	Not Detected	62		50
156-60-5	trans-1,2-Dichloroethylene	Not Detected	62		50
10061-02-6	trans-1,3-Dichloropropylene	Not Detected	62		50
110-57-6	trans-1,4-Dichloro-2-butene	Not Detected	310	Z	50
79-01-6	Trichloroethylene	Not Detected	62		50
75-69-4	Trichlorofluoromethane	Not Detected	62		50
75-01-4	Vinyl chloride	Not Detected	62	Z	50

CAS# : Chemical Abstract Service Registry Number
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ND : Not Detected

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mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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Sample Number: AB73261 SB-11

CAS#	Analyte Name	Result	Unit	RL	Qualifier	Date Tested	Method	Analyst
57-12-5	Cyanide - Sediment	ND	mg/Kg dry	0.1		05/11/2011	ASTMD 751	MB
	Cyanide-Extraction	Completed				05/10/2011	9013	MB
	Digest Mercury - Sediment	Completed				05/11/2011	7471	TS
7439-97-6	Mercury - Sediment	ND	mg/Kg dry	0.05		05/12/2011	7471	TS
7440-36-0	Antimony - Sediment	ND	mg/Kg dry	0.3		05/21/2011	6020	KS
7440-38-2	Arsenic - Sediment	1.7	mg/Kg dry	0.5		05/18/2011	6020	KS
7440-39-3	Barium - Sediment	15	mg/Kg dry	1		05/18/2011	6020	KS
7440-41-7	Beryllium - Sediment	ND	mg/Kg dry	0.2		05/18/2011	6020	KS
7440-43-9	Cadmium - Sediment	ND	mg/Kg dry	0.2		05/18/2011	6020	KS
7440-47-3	Chromium - Sediment	8.9	mg/Kg dry	2		05/18/2011	6020	KS
7440-48-4	Cobalt - Sediment	2.7	mg/Kg dry	.5		05/18/2011	6020	KS
7440-50-8	Copper - Sediment	4.6	mg/Kg dry	1		05/18/2011	6020	KS
	Digest Antimony - Sediment	Completed				05/20/2011	3050	WN
	Digest Metals - Sediment	Completed				05/17/2011	3050	WN
7439-89-6	Iron - Sediment	7900	mg/Kg dry	50	D	05/25/2011	6010	WN
7439-92-1	Lead - Sediment	4.4	mg/Kg dry	1		05/18/2011	6020	KS
7439-96-5	Manganese - Sediment	61	mg/Kg dry	1		05/18/2011	6020	KS
7439-98-7	Molybdenum - Sediment	ND	mg/Kg dry	1		05/18/2011	6020	KS
7440-02-0	Nickel - Sediment	6.6	mg/Kg dry	1		05/18/2011	6020	KS
7782-49-2	Selenium - Sediment	ND	mg/Kg dry	0.2		05/18/2011	6020	KS
7440-22-4	Silver - Sediment	ND	mg/Kg dry	0.1		05/18/2011	6020	KS
7440-28-0	Thallium - Sediment	ND	mg/Kg dry	0.5		05/18/2011	6020	KS
7440-62-2	Vanadium - Sediment	12	mg/Kg dry	1		05/18/2011	6020	KS
7440-66-6	Zinc - Sediment	17	mg/Kg dry	1	M 1.9	05/18/2011	6020	KS
	% Total Solids	90.5	%	0.1		05/14/2011	2540B SM	KS
	Drying and Grinding - Sediment	COMPLETE				05/14/2011		KS
	Gel Permeation Cleanup-Pesticide/PCJ	Completed				05/09/2011	3640	DT
	Gel Permeation Cleanup-SVOC Analy	Completed				05/05/2011	3640	DT

CAS# : Chemical Abstract Service Registry Number
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mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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Sample Number: AB73262 SB-12

Pesticides and PCBs

Analytical Method: 8081,8082
Extraction Method: 3545

Date Tested: 05/12/2011
Extraction Date: 05/03/2011

Analyst: MF
Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
SURROGATE	#Decachlorobiphenyl#	47.7			
SURROGATE	#Tetrachloro-m-xylene#	78.0			
72-54-8	4,4'-DDD	Not Detected	23		1.0
72-55-9	4,4'-DDE	Not Detected	23		1.0
50-29-3	4,4'-DDT	Not Detected	23		1.0
319-84-6	a-BHC	Not Detected	23		1.0
5103-71-9	a-Chlordane	Not Detected	23		1.0
309-00-2	Aldrin	Not Detected	23		1.0
12674-11-2	Aroclor 1016	Not Detected	120		1.0
11104-28-2	Aroclor 1221	Not Detected	120		1.0
11141-16-5	Aroclor 1232	Not Detected	120		1.0
53469-21-9	Aroclor 1242	Not Detected	120		1.0
12672-29-6	Aroclor 1248	Not Detected	120		1.0
11097-69-1	Aroclor 1254	Not Detected	120		1.0
11096-82-5	Aroclor 1260	Not Detected	120		1.0
37324-23-5	Aroclor 1262	Not Detected	120		1.0
11100-14-4	Aroclor 1268	Not Detected	120		1.0
319-85-7	b-BHC	Not Detected	23		1.0
319-86-8	d-BHC	Not Detected	23		1.0
60-57-1	Dieldrin	Not Detected	23		1.0
959-98-8	Endosulfan I	Not Detected	23		1.0
53213-65-9	Endosulfan II	Not Detected	23		1.0
1031-07-8	Endosulfan sulfate	Not Detected	23		1.0
72-20-8	Endrin	Not Detected	23		1.0
7421-93-4	Endrin aldehyde	Not Detected	23		1.0
53494-70-5	Endrin ketone	Not Detected	23		1.0
58-89-9	g-BHC (Lindane)	Not Detected	23		1.0
5103-74-2	g-Chlordane	Not Detected	23		1.0
76-44-8	Heptachlor	Not Detected	23		1.0
1024-57-3	Heptachlor epoxide	Not Detected	23		1.0
87-82-1	Hexabromobenzene	Not Detected	120		1.0
72-43-5	Methoxychlor	Not Detected	59		1.0
2385-85-5	Mirex	Not Detected	59		1.0
59080-40-9	PBB (BP-6)	Not Detected	290		1.0
8001-35-2	Toxaphene	Not Detected	200		1.0

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
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ug/L : microgram / liter (ppb)
mg/L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
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Sample Number: AB73262 SB-12

Base Neutral Acid Compounds

Analytical Method: 8270 Date Tested: 05/12/2011 Analyst: SMH
Extraction Method: 3545 Extraction Date: 05/05/2011 Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
SURROGATE	#2-Fluorobiphenyl#	64.9			
SURROGATE	#2,4,6-Tribromophenol#	67.7			
SURROGATE	#2-Fluorophenol#	57.5			
SURROGATE	#Nitrobenzene - D5#	59.1			
SURROGATE	#Phenol - D6#	68.5			
SURROGATE	#p-Terphenyl-d14#	80.0			
120-82-1	1,2,4-Trichlorobenzene	Not Detected	470		2.0
95-95-4	2,4,5-Trichlorophenol	Not Detected	770		2.0
88-06-2	2,4,6-Trichlorophenol	Not Detected	770		2.0
120-83-2	2,4-Dichlorophenol	Not Detected	770		2.0
105-67-9	2,4-Dimethylphenol	Not Detected	770		2.0
51-28-5	2,4-Dinitrophenol	Not Detected	4000	Z	2.0
121-14-2	2,4-Dinitrotoluene	Not Detected	590		2.0
606-20-2	2,6-Dinitrotoluene	Not Detected	590		2.0
91-58-7	2-Chloronaphthalene	Not Detected	470		2.0
95-57-8	2-Chlorophenol	Not Detected	770		2.0
534-52-1	2-Methyl-4,6-dinitrophenol	Not Detected	4000	Z	2.0
91-57-6	2-Methylnaphthalene	Not Detected	590		2.0
95-48-7	2-Methylphenol (o-Cresol)	Not Detected	770		2.0
88-74-4	2-Nitroaniline	Not Detected	1200		2.0
88-75-5	2-Nitrophenol	Not Detected	770		2.0
108394,106445	3 & 4-Methylphenol	Not Detected	1500		2.0
99-09-2	3-Nitroaniline	Not Detected	1200		2.0
101-55-3	4-Bromophenyl phenyl ether	Not Detected	470		2.0
59-50-7	4-Chloro-3-methyl-phenol	Not Detected	470		2.0
7005-72-3	4-Chlorodiphenylether	Not Detected	230		2.0
100-01-6	4-Nitroaniline	Not Detected	1200		2.0
100-02-7	4-Nitrophenol	Not Detected	4000	Z	2.0
83-32-9	Acenaphthene	Not Detected	230		2.0
208-96-8	Acenaphthylene	Not Detected	230		2.0
120-12-7	Anthracene	Not Detected	230		2.0
103-33-3	Azobenzene	Not Detected	470		2.0
56-55-3	Benzo[a]anthracene	300	230		2.0
50-32-8	Benzo[a]pyrene	Not Detected	470		2.0
205-99-2	Benzo[b]fluoranthene	490	470		2.0
191-24-2	Benzo[g,h,i]perylene	Not Detected	470		2.0
207-08-9	Benzo[k]fluoranthene	Not Detected	470		2.0
100-51-6	Benzyl Alcohol	Not Detected	5900		2.0
111-91-1	Bis(2-chloroethoxy)methane	Not Detected	470		2.0
111-44-4	Bis(2-chloroethyl)ether	Not Detected	230		2.0

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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Sample Number: AB73262 SB-12

Base Neutral Acid Compounds

Analytical Method: 8270 Date Tested: 05/12/2011 Analyst: SMH
Extraction Method: 3545 Extraction Date: 05/05/2011 Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
108-60-1	Bis(2-chloroisopropyl)ether	Not Detected	230		2.0
117-81-7	Bis(2-ethylhexyl)phthalate	Not Detected	590		2.0
85-68-7	Butyl benzyl phthalate	Not Detected	590		2.0
86-74-8	Carbazole	Not Detected	590		2.0
218-01-9	Chrysene	400	230		2.0
53-70-3	Dibenz[a,h]anthracene	Not Detected	470		2.0
132-64-9	Dibenzofuran	Not Detected	590		2.0
84-66-2	Diethylphthalate	Not Detected	590		2.0
131-11-3	Dimethyl phthalate	Not Detected	590		2.0
84-74-2	Di-n-butyl phthalate	Not Detected	590		2.0
117-84-0	Di-n-octyl phthalate	Not Detected	590		2.0
206-44-0	Fluoranthene	730	230		2.0
86-73-7	Fluorene	Not Detected	230		2.0
118-74-1	Hexachlorobenzene	Not Detected	470		2.0
87-68-3	Hexachlorobutadiene	Not Detected	230	Z	2.0
77-47-4	Hexachlorocyclopentadiene	Not Detected	2300	Z	2.0
67-72-1	Hexachloroethane	Not Detected	230		2.0
193-39-5	Indeno(1,2,3-c,d)pyrene	Not Detected	470		2.0
78-59-1	Isophorone	Not Detected	230		2.0
91-20-3	Naphthalene	Not Detected	230		2.0
98-95-3	Nitrobenzene	Not Detected	470		2.0
67-75-9	N-Nitrosodimethylamine	Not Detected	590		2.0
621-64-7	N-Nitrosodi-n-propylamine	Not Detected	470		2.0
86-30-6	N-Nitrosodiphenylamine	Not Detected	470		2.0
87-86-5	Pentachlorophenol	Not Detected	4000	Z=800	2.0
85-01-8	Phenanthrene	400	230		2.0
108-95-2	Phenol	Not Detected	770		2.0
129-00-0	Pyrene	640	230		2.0

RLs raised due to matrix.

Volatile Compounds

Analytical Method: 8260 Date Tested: 05/07/2011 Analyst: SJR
Extraction Method: 5035 Extraction Date: 05/02/2011 Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
	##Weight of sample(grams)	10.58			
SURROGATE	#Bromofluorobenzene#	118			
SURROGATE	#Dibromofluoromethane#	136			
SURROGATE	#Toluene-d8#	129			

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
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Sample Number: AB73262 SB-12

Volatile Compounds

Analytical Method: 8260 Date Tested: 05/07/2011 Analyst: SJR
Extraction Method: 5035 Extraction Date: 05/02/2011 Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
630-20-6	1,1,1,2-Tetrachloroethane	Not Detected	64		50
71-55-6	1,1,1-Trichloroethane	Not Detected	64		50
79-34-5	1,1,2,2-Tetrachloroethane	Not Detected	64		50
79-00-5	1,1,2-Trichloroethane	Not Detected	64		50
75-34-3	1,1-Dichloroethane	Not Detected	64		50
75-35-4	1,1-Dichloroethylene	Not Detected	64		50
87-61-6	1,2,3-Trichlorobenzene	Not Detected	320		50
96-18-4	1,2,3-Trichloropropane	Not Detected	64		50
526-73-8	1,2,3-Trimethylbenzene	Not Detected	64		50
120-82-1	1,2,4-Trichlorobenzene	Not Detected	320		50
95-63-6	1,2,4-Trimethylbenzene	Not Detected	64		50
96-12-8	1,2-Dibromo-3-chloropropane	Not Detected	320		50
106-93-4	1,2-Dibromoethane	Not Detected	64	Z	50
95-50-1	1,2-Dichlorobenzene	Not Detected	64		50
107-06-2	1,2-Dichloroethane	Not Detected	64		50
78-87-5	1,2-Dichloropropane	Not Detected	64		50
108-67-8	1,3,5-Trimethylbenzene	Not Detected	64		50
541-73-1	1,3-Dichlorobenzene	Not Detected	64		50
106-46-7	1,4-Dichlorobenzene	Not Detected	64		50
78-93-3	2-Butanone (MEK)	Not Detected	320		50
591-78-6	2-Hexanone	Not Detected	320		50
91-57-6	2-Methylnaphthalene	Not Detected	320	X 7	50
67-64-1	2-Propanone (acetone)	Not Detected	1300	5	50
108-10-1	4-Methyl-2-pentanone (MIBK)	Not Detected	320		50
107-13-1	Acrylonitrile	Not Detected	320	Z	50
71-43-2	Benzene	Not Detected	64		50
108-86-1	Bromobenzene	Not Detected	64		50
74-97-5	Bromochloromethane	Not Detected	64		50
75-27-4	Bromodichloromethane	Not Detected	64		50
75-25-2	Bromoform	Not Detected	64		50
74-83-9	Bromomethane	Not Detected	260		50
75-15-0	Carbon disulfide	Not Detected	64		50
56-23-5	Carbon tetrachloride	Not Detected	64		50
108-90-7	Chlorobenzene	Not Detected	64		50
75-00-3	Chloroethane	Not Detected	320		50
67-66-3	Chloroform	Not Detected	64		50
74-87-3	Chloromethane	Not Detected	320		50
156-59-2	cis-1,2-Dichloroethylene	Not Detected	64		50
10061-01-5	cis-1,3-Dichloropropylene	Not Detected	64		50
110-82-7	Cyclohexane	Not Detected	320		50

CAS# : Chemical Abstract Service Registry Number
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mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
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Sample Number: AB73262 SB-12

Volatile Compounds

Analytical Method: 8260
Extraction Method: 5035

Date Tested: 05/07/2011
Extraction Date: 05/02/2011

Analyst: SJR
Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
124-48-1	Dibromochloromethane	Not Detected	64		50
74-95-3	Dibromomethane	Not Detected	64		50
75-71-8	Dichlorodifluoromethane	Not Detected	320		50
60-29-7	Diethyl ether	Not Detected	260		50
108-20-3	Diisopropyl Ether	Not Detected	320		50
100-41-4	Ethylbenzene	Not Detected	64		50
637-92-3	Ethyltertiarybutylether	Not Detected	320		50
67-72-1	Hexachloroethane	Not Detected	320		50
98-82-8	Isopropylbenzene	Not Detected	64		50
108383,106423	m & p - Xylene	Not Detected	130		50
74-88-4	Methyl iodide	Not Detected	64		50
75-09-2	Methylene chloride	Not Detected	130		50
1634-04-4	Methyltertiarybutylether	Not Detected	64		50
91-20-3	Naphthalene	Not Detected	320	X	50
104-51-8	n-Butylbenzene	Not Detected	64		50
103-65-1	n-Propylbenzene	Not Detected	64		50
95-47-6	o-Xylene	Not Detected	64		50
99-87-6	p-Isopropyl toluene	Not Detected	64		50
135-98-8	sec-Butylbenzene	Not Detected	64		50
100-42-5	Styrene	Not Detected	64		50
98-06-6	tert-Butylbenzene	Not Detected	64		50
75-65-0	tertiary Butyl Alcohol	Not Detected	3200		50
994-05-8	tertiary Amyl methyl ether	Not Detected	320		50
127-18-4	Tetrachloroethylene	Not Detected	64		50
109-99-9	Tetrahydrofuran	Not Detected	320		50
108-88-3	Toluene	Not Detected	64		50
156-60-5	trans-1,2-Dichloroethylene	Not Detected	64		50
10061-02-6	trans-1,3-Dichloropropylene	Not Detected	64		50
110-57-6	trans-1,4-Dichloro-2-butene	Not Detected	320	Z	50
79-01-6	Trichloroethylene	Not Detected	64		50
75-69-4	Trichlorofluoromethane	Not Detected	64		50
75-01-4	Vinyl chloride	Not Detected	64	Z	50

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Sample Number: AB73262 SB-12

CAS#	Analyte Name	Result	Unit	RL	Qualifier	Date Tested	Method	Analyst
57-12-5	Cyanide - Sediment	0.4	mg/Kg dry	0.1		05/11/2011	ASTM D 751	MB
	Cyanide-Extraction	Completed				05/10/2011	9013	MB
	Digest Mercury - Sediment	Completed				05/11/2011	7471	TS
7439-97-6	Mercury - Sediment	ND	mg/Kg dry	0.05		05/12/2011	7471	TS
7440-36-0	Antimony - Sediment	ND	mg/Kg dry	0.3		05/21/2011	6020	KS
7440-38-2	Arsenic - Sediment	4.9	mg/Kg dry	0.5		05/18/2011	6020	KS
7440-39-3	Barium - Sediment	37	mg/Kg dry	1		05/18/2011	6020	KS
7440-41-7	Beryllium - Sediment	0.31	mg/Kg dry	0.2		05/18/2011	6020	KS
7440-43-9	Cadmium - Sediment	0.22	mg/Kg dry	0.2		05/18/2011	6020	KS
7440-47-3	Chromium - Sediment	19	mg/Kg dry	2		05/18/2011	6020	KS
7440-48-4	Cobalt - Sediment	4.7	mg/Kg dry	.5		05/18/2011	6020	KS
7440-50-8	Copper - Sediment	14	mg/Kg dry	1		05/18/2011	6020	KS
	Digest Antimony - Sediment	Completed				05/20/2011	3050	WN
	Digest Metals - Sediment	Completed				05/17/2011	3050	WN
7439-89-6	Iron - Sediment	14000	mg/Kg dry	50	D	05/25/2011	6010	WN
7439-92-1	Lead - Sediment	50	mg/Kg dry	1		05/18/2011	6020	KS
7439-96-5	Manganese - Sediment	400	mg/Kg dry	1		05/18/2011	6020	KS
7439-98-7	Molybdenum - Sediment	ND	mg/Kg dry	1		05/18/2011	6020	KS
7440-02-0	Nickel - Sediment	12	mg/Kg dry	1		05/18/2011	6020	KS
7782-49-2	Selenium - Sediment	ND	mg/Kg dry	0.2		05/18/2011	6020	KS
7440-22-4	Silver - Sediment	ND	mg/Kg dry	0.1		05/18/2011	6020	KS
7440-28-0	Thallium - Sediment	ND	mg/Kg dry	0.5		05/18/2011	6020	KS
7440-62-2	Vanadium - Sediment	16	mg/Kg dry	1		05/18/2011	6020	KS
7440-66-6	Zinc - Sediment	54	mg/Kg dry	1		05/18/2011	6020	KS
	% Total Solids	85.2	%	0.1		05/14/2011	2540B SM	KS
	Drying and Grinding - Sediment	COMPLETE				05/14/2011		KS
	Gel Permeation Cleanup-Pesticide/PCl	Completed				05/09/2011	3640	DT
	Gel Permeation Cleanup-SVOC Analy	Completed				05/05/2011	3640	DT

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Sample Number: AB73263 SB-13

Pesticides and PCBs

Analytical Method: 8081,8082 Date Tested: 05/11/2011 Analyst: MF
Extraction Method: 3545 Extraction Date: 05/03/2011 Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
SURROGATE	#Decachlorobiphenyl#	52.2			
SURROGATE	#Tetrachloro-m-xylene#	79.4			
72-54-8	4,4'-DDD	Not Detected	22		1.0
72-55-9	4,4'-DDE	Not Detected	22		1.0
50-29-3	4,4'-DDT	Not Detected	22		1.0
319-84-6	a-BHC	Not Detected	11		1.0
5103-71-9	a-Chlordane	Not Detected	22		1.0
309-00-2	Aldrin	Not Detected	22		1.0
12674-11-2	Aroclor 1016	Not Detected	110		1.0
11104-28-2	Aroclor 1221	Not Detected	110		1.0
11141-16-5	Aroclor 1232	Not Detected	110		1.0
53469-21-9	Aroclor 1242	Not Detected	110		1.0
12672-29-6	Aroclor 1248	Not Detected	110		1.0
11097-69-1	Aroclor 1254	Not Detected	110		1.0
11096-82-5	Aroclor 1260	Not Detected	110		1.0
37324-23-5	Aroclor 1262	Not Detected	110		1.0
11100-14-4	Aroclor 1268	Not Detected	110		1.0
319-85-7	b-BHC	Not Detected	22		1.0
319-86-8	d-BHC	Not Detected	22		1.0
60-57-1	Dieldrin	Not Detected	22		1.0
959-98-8	Endosulfan I	Not Detected	22		1.0
33213-65-9	Endosulfan II	Not Detected	22		1.0
1031-07-8	Endosulfan sulfate	Not Detected	22		1.0
72-20-8	Endrin	Not Detected	22		1.0
7421-93-4	Endrin aldehyde	Not Detected	22		1.0
53494-70-5	Endrin ketone	Not Detected	22		1.0
58-89-9	g-BHC (Lindane)	Not Detected	22		1.0
5103-74-2	g-Chlordane	Not Detected	22		1.0
76-44-8	Heptachlor	Not Detected	22		1.0
1024-57-3	Heptachlor epoxide	Not Detected	22		1.0
87-82-1	Hexabromobenzene	Not Detected	110		1.0
72-43-5	Methoxychlor	Not Detected	55		1.0
2385-85-5	Mirex	Not Detected	55		1.0
59080-40-9	PBB (BP-6)	Not Detected	270		1.0
8001-35-2	Toxaphene	Not Detected	190		1.0

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Sample Number: AB73263 SB-13

Base Neutral Acid Compounds

Analytical Method: 8270 Date Tested: 05/12/2011 Analyst: SMH
Extraction Method: 3545 Extraction Date: 05/05/2011 Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
SURROGATE	#2-Fluorobiphenyl#	71.7			
SURROGATE	#2,4,6-Tribromophenol#	64.9			
SURROGATE	#2-Fluorophenol#	62.7			
SURROGATE	#Nitrobenzene - D5#	64.1			
SURROGATE	#Phenol - D6#	68.8			
SURROGATE	#p-Terphenyl-d14#	77.3			
120-82-1	1,2,4-Trichlorobenzene	Not Detected	220		1.0
95-95-4	2,4,5-Trichlorophenol	Not Detected	360		1.0
88-06-2	2,4,6-Trichlorophenol	Not Detected	360		1.0
120-83-2	2,4-Dichlorophenol	Not Detected	360		1.0
105-67-9	2,4-Dimethylphenol	Not Detected	360		1.0
51-28-5	2,4-Dinitrophenol	Not Detected	1900	Z	1.0
121-14-2	2,4-Dinitrotoluene	Not Detected	270		1.0
606-20-2	2,6-Dinitrotoluene	Not Detected	270		1.0
91-58-7	2-Chloronaphthalene	Not Detected	220		1.0
95-57-8	2-Chlorophenol	Not Detected	360		1.0
534-52-1	2-Methyl-4,6-dinitrophenol	Not Detected	1900	Z	1.0
91-57-6	2-Methylnaphthalene	Not Detected	270		1.0
95-48-7	2-Methylphenol (o-Cresol)	Not Detected	360		1.0
88-74-4	2-Nitroaniline	Not Detected	550		1.0
88-75-5	2-Nitrophenol	Not Detected	360		1.0
108394,106445	3 & 4-Methylphenol	Not Detected	730		1.0
99-09-2	3-Nitroaniline	Not Detected	550		1.0
101-55-3	4-Bromophenyl phenyl ether	Not Detected	220		1.0
59-50-7	4-Chloro-3-methylphenol	Not Detected	220		1.0
7005-72-3	4-Chlorodiphenylether	Not Detected	110		1.0
100-01-6	4-Nitroaniline	Not Detected	550		1.0
100-02-7	4-Nitrophenol	Not Detected	1900	Z	1.0
83-32-9	Acenaphthene	Not Detected	110		1.0
208-96-8	Acenaphthylene	Not Detected	110		1.0
120-12-7	Anthracene	Not Detected	110		1.0
103-33-3	Azobenzene	Not Detected	220		1.0
56-55-3	Benzo[a]anthracene	Not Detected	110		1.0
50-32-8	Benzo[a]pyrene	Not Detected	220		1.0
205-99-2	Benzo[b]fluoranthene	Not Detected	220		1.0
191-24-2	Benzo[g,h,i]perylene	Not Detected	220		1.0
207-08-9	Benzo[k]fluoranthene	Not Detected	220		1.0
100-51-6	Benzyl Alcohol	Not Detected	2700		1.0
111-91-1	Bis(2-chloroethoxy)methane	Not Detected	220		1.0
111-44-4	Bis(2-chloroethyl)ether	Not Detected	110		1.0

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Sample Number: AB73263 SB-13

Base Neutral Acid Compounds

Analytical Method: 8270 Date Tested: 05/12/2011 Analyst: SMH
 Extraction Method: 3545 Extraction Date: 05/05/2011 Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
108-60-1	Bis(2-chloroisopropyl)ether	Not Detected	110		1.0
117-81-7	Bis(2-ethylhexyl)phthalate	Not Detected	270		1.0
85-68-7	Butyl benzyl phthalate	Not Detected	270		1.0
86-74-8	Carbazole	Not Detected	270		1.0
218-01-9	Chrysene	95	110	T	1.0
53-70-3	Dibenz[a,h]anthracene	Not Detected	220		1.0
152-64-9	Dibenzofuran	Not Detected	270		1.0
84-66-2	Diethylphthalate	Not Detected	270		1.0
131-11-3	Dimethyl phthalate	Not Detected	270		1.0
84-74-2	Di-n-butyl phthalate	Not Detected	270		1.0
117-84-0	Di-n-octyl phthalate	Not Detected	270		1.0
206-44-0	Fluoranthene	170	110		1.0
86-73-7	Fluorene	Not Detected	110		1.0
118-74-1	Hexachlorobenzene	Not Detected	220		1.0
87-68-3	Hexachlorobutadiene	Not Detected	110	Z	1.0
77-47-4	Hexachlorocyclopentadiene	Not Detected	1100	Z	1.0
67-72-1	Hexachloroethane	Not Detected	110		1.0
193-39-5	Indeno(1,2,3-c,d)pyrene	Not Detected	220		1.0
78-59-1	Isophorone	Not Detected	110		1.0
91-20-3	Naphthalene	Not Detected	110		1.0
98-95-3	Nitrobenzene	Not Detected	220		1.0
67-75-9	N-Nitrosodimethylamine	Not Detected	270		1.0
621-64-7	N-Nitrosodi-n-propylamine	Not Detected	220		1.0
86-30-6	N-Nitrosodiphenylamine	Not Detected	220		1.0
87-86-5	Pentachlorophenol	Not Detected	1900	Z=800	1.0
85-01-8	Phenanthrene	100	110	T	1.0
108-95-2	Phenol	Not Detected	360		1.0
129-00-0	Pyrene	150	110		1.0

Volatile Compounds

Analytical Method: 8260 Date Tested: 05/07/2011 Analyst: SJR
 Extraction Method: 5035 Extraction Date: 05/02/2011 Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
	##Weight of sample(grams)	9.72			
SURROGATE	#Bromofluorobenzene#	113			
SURROGATE	#Dibromofluoromethane#	124			
SURROGATE	#Toluene-d8#	122			

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Sample Number: AB73263 SB-13

Volatile Compounds

Analytical Method: 8260 Date Tested: 05/07/2011 Analyst: SJR
Extraction Method: 5035 Extraction Date: 05/02/2011 Qualifier: -

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
630-20-6	1,1,1,2-Tetrachloroethane	Not Detected	61		50
71-55-6	1,1,1-Trichloroethane	Not Detected	61		50
79-34-5	1,1,1,2-Tetrachloroethane	Not Detected	61		50
79-00-5	1,1,2-Trichloroethane	Not Detected	61		50
75-34-3	1,1-Dichloroethane	Not Detected	61		50
75-35-4	1,1-Dichloroethylene	Not Detected	61		50
87-61-6	1,2,3-Trichlorobenzene	Not Detected	310		50
96-18-4	1,2,3-Trichloropropane	Not Detected	61		50
526-73-8	1,2,3-Trimethylbenzene	Not Detected	61		50
120-82-1	1,2,4-Trichlorobenzene	Not Detected	310		50
95-63-6	1,2,4-Trimethylbenzene	Not Detected	61		50
96-12-8	1,2-Dibromo-3-chloropropane	Not Detected	310		50
106-93-4	1,2-Dibromoethane	Not Detected	61	Z	50
95-50-1	1,2-Dichlorobenzene	Not Detected	61		50
107-06-2	1,2-Dichloroethane	Not Detected	61		50
78-87-5	1,2-Dichloropropane	Not Detected	61		50
108-67-8	1,3,5-Trimethylbenzene	Not Detected	61		50
541-73-1	1,3-Dichlorobenzene	Not Detected	61		50
106-46-7	1,4-Dichlorobenzene	Not Detected	61		50
78-93-3	2-Butanone (MEK)	Not Detected	310		50
591-78-6	2-Hexanone	Not Detected	310		50
91-57-6	2-Methylnaphthalene	Not Detected	310	X-7	50
67-64-1	2-Propanone (acetone)	Not Detected	1200	5	50
108-10-1	4-Methyl-2-pentanone (MIBK)	Not Detected	310		50
107-13-1	Acrylonitrile	Not Detected	310	Z	50
71-43-2	Benzene	Not Detected	61		50
108-86-1	Bromobenzene	Not Detected	61		50
74-97-5	Bromochloromethane	Not Detected	61		50
75-27-4	Bromodichloromethane	Not Detected	61		50
75-25-2	Bromoform	Not Detected	61		50
74-83-9	Bromomethane	Not Detected	250		50
75-15-0	Carbon disulfide	Not Detected	61		50
56-23-5	Carbon tetrachloride	Not Detected	61		50
108-90-7	Chlorobenzene	Not Detected	61		50
75-00-3	Chloroethane	Not Detected	310		50
67-66-3	Chloroform	Not Detected	61		50
74-87-3	Chloromethane	Not Detected	310		50
156-59-2	cis-1,2-Dichloroethylene	Not Detected	61		50
10061-01-5	cis-1,3-Dichloropropylene	Not Detected	61		50
110-82-7	Cyclohexane	Not Detected	310		50

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Sample Number: AB73263 SB-13

Volatile Compounds

Analytical Method: 8260
Extraction Method: 5035

Date Tested: 05/07/2011
Extraction Date: 05/02/2011

Analyst: SJR
Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
124-48-1	Dibromochloromethane	Not Detected	61		50
74-95-3	Dibromomethane	Not Detected	61		50
75-71-8	Dichlorodifluoromethane	Not Detected	310		50
60-29-7	Diethyl ether	Not Detected	250		50
108-20-3	Diisopropyl Ether	Not Detected	310		50
100-41-4	Ethylbenzene	Not Detected	61		50
637-92-3	Ethyltertiarybutylether	Not Detected	310		50
67-72-1	Hexachloroethane	Not Detected	310		50
98-82-8	Isopropylbenzene	Not Detected	61		50
108383,106423	m & p - Xylene	Not Detected	120		50
74-88-4	Methyl iodide	Not Detected	61		50
75-09-2	Methylene chloride	Not Detected	120		50
1634-04-4	Methyltertiarybutylether	Not Detected	61		50
91-20-3	Naphthalene	Not Detected	310	X	50
104-51-8	n-Butylbenzene	Not Detected	61		50
103-65-1	n-Propylbenzene	Not Detected	61		50
95-47-6	o-Xylene	Not Detected	61		50
99-87-6	p-Isopropyl toluene	Not Detected	61		50
135-98-8	sec-Butylbenzene	Not Detected	61		50
100-42-5	Styrene	Not Detected	61		50
98-06-6	tert-Butylbenzene	Not Detected	61		50
75-65-0	tertiary Butyl Alcohol	Not Detected	3100		50
994-05-8	tertiary Amyl methyl ether	Not Detected	310		50
127-18-4	Tetrachloroethylene	Not Detected	61		50
109-99-9	Tetrahydrofuran	Not Detected	310		50
108-88-3	Toluene	Not Detected	61		50
156-60-5	trans-1,2-Dichloroethylene	Not Detected	61		50
10061-02-6	trans-1,3-Dichloropropylene	Not Detected	61		50
110-57-6	trans-1,4-Dichloro-2-butene	Not Detected	310	Z	50
79-01-6	Trichloroethylene	Not Detected	61		50
75-69-4	Trichlorofluoromethane	Not Detected	61		50
75-01-4	Vinyl chloride	Not Detected	61	Z	50

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

Laboratory Contacts
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Organic Unit Mgr: Carol Smith
Systems Mgmt Unit: George Krisztian



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Sample Number: AB73263 SB-13

CAS#	Analyte Name	Result	Unit	RL	Qualifier	Date Tested	Method	Analyst
57-12-5	Cyanide - Sediment	0.4	mg/Kg dry	0.1		05/11/2011	ASTMD 751	MB
	Cyanide-Extraction	Completed				05/10/2011	9013	MB
	Digest Mercury - Sediment	Completed				05/11/2011	7471	TS
7439-97-6	Mercury - Sediment	ND	mg/Kg dry	0.05		05/12/2011	7471	TS
7440-36-0	Antimony - Sediment	0.30	mg/Kg dry	0.3		05/21/2011	6020	KS
7440-38-2	Arsenic - Sediment	3.3	mg/Kg dry	0.5		05/18/2011	6020	KS
7440-39-3	Barium - Sediment	13	mg/Kg dry	1		05/18/2011	6020	KS
7440-41-7	Beryllium - Sediment	ND	mg/Kg dry	0.2		05/18/2011	6020	KS
7440-43-9	Cadmium - Sediment	ND	mg/Kg dry	0.2		05/18/2011	6020	KS
7440-47-3	Chromium - Sediment	7.3	mg/Kg dry	2		05/18/2011	6020	KS
7440-48-4	Cobalt - Sediment	3.0	mg/Kg dry	.5		05/18/2011	6020	KS
7440-50-8	Copper - Sediment	7.5	mg/Kg dry	1		05/18/2011	6020	KS
	Digest Antimony - Sediment	Completed				05/20/2011	3050	WN
	Digest Metals - Sediment	Completed				05/17/2011	3050	WN
7439-89-6	Iron - Sediment	7600	mg/Kg dry	50	D	05/25/2011	6010	WN
7439-92-1	Lead - Sediment	8.0	mg/Kg dry	1		05/18/2011	6020	KS
7439-96-5	Manganese - Sediment	230	mg/Kg dry	1		05/18/2011	6020	KS
7439-98-7	Molybdenum - Sediment	ND	mg/Kg dry	1		05/18/2011	6020	KS
7440-02-0	Nickel - Sediment	8.1	mg/Kg dry	1		05/18/2011	6020	KS
7782-49-2	Selenium - Sediment	ND	mg/Kg dry	0.2		05/18/2011	6020	KS
7440-22-4	Silver - Sediment	ND	mg/Kg dry	0.1		05/18/2011	6020	KS
7440-28-0	Thallium - Sediment	ND	mg/Kg dry	0.5		05/18/2011	6020	KS
7440-62-2	Vanadium - Sediment	8.8	mg/Kg dry	1		05/18/2011	6020	KS
7440-66-6	Zinc - Sediment	25	mg/Kg dry	1		05/18/2011	6020	KS
	% Total Solids	91.0	%	0.1		05/14/2011	2540B SM	KS
	Drying and Grinding - Sediment	COMPLETE				05/14/2011		KS
	Gel Permeation Cleanup-Pesticide/PCI	Completed				05/09/2011	3640	DT
	Gel Permeation Cleanup-SVOC Analy	Completed				05/05/2011	3640	DT

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ug / Kg : microgram / kilogram (ppb)
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Sample Number: AB73264 SB-14

Pesticides and PCBs

Analytical Method: 8081,8082
Extraction Method: 3545

Date Tested: 05/12/2011
Extraction Date: 05/03/2011

Analyst: MF
Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
SURROGATE	#Decachlorobiphenyl#	35.2			
SURROGATE	#Tetrachloro-m-xylene#	81.4			
72-54-8	4,4'-DDD	Not Detected	23		1.0
72-55-9	4,4'-DDE	Not Detected	23		1.0
50-29-3	4,4'-DDT	Not Detected	120	K	5.0
319-84-6	a-BHC	Not Detected	12		1.0
5103-71-9	a-Chlordane	14	23	T	1.0
309-00-2	Aldrin	Not Detected	23		1.0
12674-11-2	Aroclor 1016	Not Detected	120		1.0
11104-28-2	Aroclor 1221	Not Detected	120		1.0
11141-16-5	Aroclor 1232	Not Detected	120		1.0
53469-21-9	Aroclor 1242	Not Detected	120		1.0
12672-29-6	Aroclor 1248	Not Detected	120		1.0
11097-69-1	Aroclor 1254	Not Detected	120		1.0
11096-82-5	Aroclor 1260	Not Detected	120		1.0
37324-23-5	Aroclor 1262	Not Detected	120		1.0
11100-14-4	Aroclor 1268	Not Detected	120		1.0
319-85-7	b-BHC	Not Detected	23		1.0
319-86-8	d-BHC	Not Detected	23		1.0
60-57-1	Dieldrin	Not Detected	23		1.0
959-98-8	Endosulfan I	Not Detected	23		1.0
53213-65-9	Endosulfan II	Not Detected	23		1.0
1031-07-8	Endosulfan sulfate	Not Detected	23		1.0
72-20-8	Endrin	Not Detected	23		1.0
7421-93-4	Endrin aldehyde	Not Detected	23		1.0
53494-70-5	Endrin ketone	Not Detected	23		1.0
58-89-9	g-BHC (Lindane)	Not Detected	23		1.0
5103-74-2	g-Chlordane	8.6	23	T	1.0
76-44-8	Heptachlor	Not Detected	23		1.0
1024-57-3	Heptachlor epoxide	Not Detected	23		1.0
87-82-1	Hexabromobenzene	Not Detected	120		1.0
72-43-5	Methoxychlor	Not Detected	290	K	5.0
2385-85-5	Mirex	Not Detected	58		1.0
59080-40-9	PBB (BP-6)	Not Detected	290		1.0
8001-35-2	Toxaphene	Not Detected	200		1.0

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ug/Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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Sample Number: AB73264 SB-14

Base Neutral Acid Compounds

Analytical Method: 8270 Date Tested: 05/13/2011 Analyst: SMH
Extraction Method: 3545 Extraction Date: 05/05/2011 Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
SURROGATE	#2-Fluorobiphenyl#	88.4			
SURROGATE	#2,4,6-Tribromophenol#	65.4			
SURROGATE	#2-Fluorophenol#	41.7			
SURROGATE	#Nitrobenzene - D5#	67.8			
SURROGATE	#Phenol - D6#	38.8			
SURROGATE	#p-Terphenyl-d14#	100			
120-82-1	1,2,4-Trichlorobenzene	Not Detected	470		2.0
95-95-4	2,4,5-Trichlorophenol	Not Detected	770		2.0
88-06-2	2,4,6-Trichlorophenol	Not Detected	770		2.0
120-83-2	2,4-Dichlorophenol	Not Detected	770		2.0
105-67-9	2,4-Dimethylphenol	Not Detected	770		2.0
51-28-5	2,4-Dinitrophenol	Not Detected	4000	Z	2.0
121-14-2	2,4-Dinitrotoluene	Not Detected	580		2.0
606-20-2	2,6-Dinitrotoluene	Not Detected	580		2.0
91-58-7	2-Chloronaphthalene	Not Detected	470		2.0
95-57-8	2-Chlorophenol	Not Detected	770		2.0
534-52-1	2-Methyl-4,6-dinitrophenol	Not Detected	4000	Z	2.0
91-57-6	2-Methylnaphthalene	Not Detected	580		2.0
95-48-7	2-Methylphenol (o-Cresol)	Not Detected	770		2.0
88-74-4	2-Nitroaniline	Not Detected	1200		2.0
88-75-5	2-Nitrophenol	Not Detected	770		2.0
108394,106445	3 & 4-Methylphenol	Not Detected	1500		2.0
99-09-2	3-Nitroaniline	Not Detected	1200		2.0
101-55-3	4-Bromophenyl phenyl ether	Not Detected	470		2.0
59-50-7	4-Chloro-3-methylphenol	Not Detected	470		2.0
7005-72-3	4-Chlorodiphenylether	Not Detected	230		2.0
100-01-6	4-Nitroaniline	Not Detected	1200		2.0
100-02-7	4-Nitrophenol	Not Detected	4000	Z	2.0
83-32-9	Acenaphthene	Not Detected	230		2.0
208-96-8	Acenaphthylene	Not Detected	230		2.0
120-12-7	Anthracene	Not Detected	230		2.0
103-33-3	Azobenzene	Not Detected	470		2.0
56-55-3	Benzo[a]anthracene	200	230	T	2.0
50-32-8	Benzo[a]pyrene	Not Detected	470		2.0
205-99-2	Benzo[b]fluoranthene	Not Detected	470		2.0
191-24-2	Benzo[ghi]perylene	Not Detected	470		2.0
207-08-9	Benzo[k]fluoranthene	Not Detected	470		2.0
100-51-6	Benzyl Alcohol	Not Detected	5800		2.0
111-91-1	Bis(2-chloroethoxy)methane	Not Detected	470		2.0
111-44-4	Bis(2-chloroethyl)ether	Not Detected	230		2.0

CAS# : Chemical Abstract Service Registry Number
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ND : Not Detected

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mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
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Sample Number: AB73264 SB-14

Base Neutral Acid Compounds

Analytical Method: 8270 Date Tested: 05/13/2011 Analyst: SMH
Extraction Method: 3545 Extraction Date: 05/05/2011 Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
108-60-1	Bis(2-chloroisopropyl)ether	Not Detected	230		2.0
117-81-7	Bis(2-ethylhexyl)phthalate	Not Detected	580		2.0
85-68-7	Butyl benzyl phthalate	Not Detected	580		2.0
86-74-8	Carbazole	Not Detected	580		2.0
218-01-9	Chrysene	250	230		2.0
53-70-3	Dibenz[a,h]anthracene	Not Detected	470		2.0
132-64-9	Dibenzofuran	Not Detected	580		2.0
84-66-2	Diethylphthalate	Not Detected	580		2.0
131-11-3	Dimethyl phthalate	Not Detected	580		2.0
84-74-2	Di-n-butyl phthalate	Not Detected	580		2.0
117-84-0	Di-n-octyl phthalate	Not Detected	580		2.0
206-44-0	Fluoranthene	490	230		2.0
86-73-7	Fluorene	Not Detected	230		2.0
118-74-1	Hexachlorobenzene	Not Detected	470		2.0
87-68-3	Hexachlorobutadiene	Not Detected	230	Z	2.0
77-47-4	Hexachlorocyclopentadiene	Not Detected	2300	Z	2.0
67-72-1	Hexachloroethane	Not Detected	230		2.0
193-39-5	Indeno(1,2,3-c,d)pyrene	Not Detected	470		2.0
78-59-1	Isophorone	Not Detected	230		2.0
91-20-3	Naphthalene	Not Detected	230		2.0
98-95-3	Nitrobenzene	Not Detected	470		2.0
67-75-9	N-Nitrosodimethylamine	Not Detected	580		2.0
621-64-7	N-Nitrosodi-n-propylamine	Not Detected	470		2.0
86-30-6	N-Nitrosodiphenylamine	Not Detected	470		2.0
87-86-5	Pentachlorophenol	Not Detected	4000	Z=800	2.0
85-01-8	Phenanthrene	310	230		2.0
108-95-2	Phenol	Not Detected	770		2.0
129-00-0	Pyrene	530	230		2.0

RLs raised due to matrix.

Volatile Compounds

Analytical Method: 8260 Date Tested: 05/07/2011 Analyst: SJR
Extraction Method: 5035 Extraction Date: 05/02/2011 Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
	##Weight of sample(grams)	10.69			
SURROGATE	#Bromofluorobenzene#	121			
SURROGATE	#Dibromofluoromethane#	140			
SURROGATE	#Toluene-d8#	135			

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mg / Kg : milligram / kilogram (ppm)

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Sample Number: AB73264 SB-14

Volatile Compounds

Analytical Method: 8260 Date Tested: 05/07/2011 Analyst: SJR
Extraction Method: 5035 Extraction Date: 05/02/2011 Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
630-20-6	1,1,1,2-Tetrachloroethane	Not Detected	68		50
71-55-6	1,1,1-Trichloroethane	Not Detected	68		50
79-34-5	1,1,2,2-Tetrachloroethane	Not Detected	68		50
79-00-5	1,1,2-Trichloroethane	Not Detected	68		50
75-34-3	1,1-Dichloroethane	Not Detected	68		50
75-35-4	1,1-Dichloroethylene	Not Detected	68		50
87-61-6	1,2,3-Trichlorobenzene	Not Detected	340		50
96-18-4	1,2,3-Trichloropropane	Not Detected	68		50
526-73-8	1,2,3-Trimethylbenzene	Not Detected	68		50
120-82-1	1,2,4-Trichlorobenzene	Not Detected	340		50
95-63-6	1,2,4-Trimethylbenzene	Not Detected	68		50
96-12-8	1,2-Dibromo-3-chloropropane	Not Detected	340		50
106-93-4	1,2-Dibromoethane	Not Detected	68	Z	50
95-50-1	1,2-Dichlorobenzene	Not Detected	68		50
107-06-2	1,2-Dichloroethane	Not Detected	68		50
78-87-5	1,2-Dichloropropane	Not Detected	68		50
108-67-8	1,3,5-Trimethylbenzene	Not Detected	68		50
541-73-1	1,3-Dichlorobenzene	Not Detected	68		50
106-46-7	1,4-Dichlorobenzene	Not Detected	68		50
78-93-3	2-Butanone (MEK)	Not Detected	340		50
591-78-6	2-Hexanone	Not Detected	340		50
91-57-6	2-Methylnaphthalene	Not Detected	340	X7	50
67-64-1	2-Propanone (acetone)	Not Detected	1400	5	50
108-10-1	4-Methyl-2-pentanone (MIBK)	Not Detected	340		50
107-13-1	Acrylonitrile	Not Detected	340	Z	50
71-43-2	Benzene	Not Detected	68		50
108-86-1	Bromobenzene	Not Detected	68		50
74-97-5	Bromochloromethane	Not Detected	68		50
75-27-4	Bromodichloromethane	Not Detected	68		50
75-25-2	Bromoform	Not Detected	68		50
74-83-9	Bromomethane	Not Detected	270		50
75-15-0	Carbon disulfide	Not Detected	68		50
56-23-5	Carbon tetrachloride	Not Detected	68		50
108-90-7	Chlorobenzene	Not Detected	68		50
75-00-3	Chloroethane	Not Detected	340		50
67-66-3	Chloroform	Not Detected	68		50
74-87-3	Chloromethane	Not Detected	340		50
56-59-2	cis-1,2-Dichloroethylene	Not Detected	68		50
10061-01-5	cis-1,3-Dichloropropylene	Not Detected	68		50
110-82-7	Cyclohexane	Not Detected	340		50

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Sample Number: AB73264 SB-14

Volatile Compounds

Analytical Method: 8260
Extraction Method: 5035

Date Tested: 05/07/2011
Extraction Date: 05/02/2011

Analyst: SJR
Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
124-48-1	Dibromochloromethane	Not Detected	68		50
74-95-3	Dibromomethane	Not Detected	68		50
75-71-8	Dichlorodifluoromethane	Not Detected	340		50
60-29-7	Diethyl ether	Not Detected	270		50
108-20-3	Diisopropyl Ether	Not Detected	340		50
100-41-4	Ethylbenzene	Not Detected	68		50
637-92-3	Ethyltertiarybutylether	Not Detected	340		50
67-72-1	Hexachloroethane	Not Detected	340		50
98-82-8	Isopropylbenzene	Not Detected	68		50
108383,106423	m & p - Xylene	Not Detected	140		50
74-88-4	Methyl iodide	Not Detected	68		50
75-09-2	Methylene chloride	Not Detected	140		50
1634-04-4	Methyltertiarybutylether	Not Detected	68		50
91-20-3	Naphthalene	Not Detected	340	X	50
104-51-8	n-Butylbenzene	Not Detected	68		50
103-65-1	n-Propylbenzene	Not Detected	68		50
95-47-6	o-Xylene	Not Detected	68		50
99-87-6	p-Isopropyl toluene	Not Detected	68		50
135-98-8	sec-Butylbenzene	Not Detected	68		50
100-42-5	Styrene	Not Detected	68		50
98-06-6	tert-Butylbenzene	Not Detected	68		50
75-65-0	tertiary Butyl Alcohol	Not Detected	3400		50
994-05-8	tertiaryAmylmeylether	Not Detected	340		50
127-18-4	Tetrachloroethylene	Not Detected	68		50
109-99-9	Tetrahydrofuran	Not Detected	340		50
108-88-3	Toluene	Not Detected	68		50
156-60-5	trans-1,2-Dichloroethylene	Not Detected	68		50
10061-02-6	trans-1,3-Dichloropropylene	Not Detected	68		50
110-57-6	trans-1,4-Dichloro-2-butene	Not Detected	340	Z	50
79-01-6	Trichloroethylene	Not Detected	68		50
75-69-4	Trichlorofluoromethane	Not Detected	68		50
75-01-4	Vinyl chloride	Not Detected	68	Z	50

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Sample Number: AB73264 SB-14

CAS#	Analyte Name	Result	Unit	RL	Qualifier	Date Tested	Method	Analyst
57-12-5	Cyanide - Sediment	ND	mg/Kg dry	0.1		05/17/2011	ASTM D 751	MB
	Cyanide-Extraction	Completed				05/10/2011	9013	MB
	Digest Mercury - Sediment	Completed				05/11/2011	7471	TS
7439-97-6	Mercury - Sediment	ND	mg/Kg dry	0.05		05/12/2011	7471	TS
7440-36-0	Antimony - Sediment	0.35	mg/Kg dry	0.3		05/21/2011	6020	KS
7440-38-2	Arsenic - Sediment	5.1	mg/Kg dry	0.5		05/18/2011	6020	KS
7440-39-3	Barium - Sediment	32	mg/Kg dry	1		05/18/2011	6020	KS
7440-41-7	Beryllium - Sediment	0.34	mg/Kg dry	0.2		05/18/2011	6020	KS
7440-43-9	Cadmium - Sediment	ND	mg/Kg dry	0.2		05/18/2011	6020	KS
7440-47-3	Chromium - Sediment	33	mg/Kg dry	2		05/18/2011	6020	KS
7440-48-4	Cobalt - Sediment	5.5	mg/Kg dry	.5		05/18/2011	6020	KS
7440-50-8	Copper - Sediment	12	mg/Kg dry	1		05/18/2011	6020	KS
	Digest Antimony - Sediment	Completed				05/20/2011	3050	WN
	Digest Metals - Sediment	Completed				05/17/2011	3050	WN
7439-89-6	Iron - Sediment	19000	mg/Kg dry	50	D	05/25/2011	6010	WN
7439-92-1	Lead - Sediment	13	mg/Kg dry	1		05/18/2011	6020	KS
7439-96-5	Manganese - Sediment	810	mg/Kg dry	1		05/18/2011	6020	KS
7439-98-7	Molybdenum - Sediment	1.5	mg/Kg dry	1		05/18/2011	6020	KS
7440-02-0	Nickel - Sediment	14	mg/Kg dry	1		05/18/2011	6020	KS
7782-49-2	Selenium - Sediment	0.21	mg/Kg dry	0.2		05/18/2011	6020	KS
7440-22-4	Silver - Sediment	ND	mg/Kg dry	0.1		05/18/2011	6020	KS
7440-28-0	Thallium - Sediment	ND	mg/Kg dry	0.5		05/18/2011	6020	KS
7440-62-2	Vanadium - Sediment	23	mg/Kg dry	1		05/18/2011	6020	KS
7440-66-6	Zinc - Sediment	45	mg/Kg dry	1		05/18/2011	6020	KS
	% Total Solids	85.9	%	0.1		05/14/2011	2540B SM	KS
	Drying and Grinding - Sediment	COMPLETE				05/14/2011		KS
	Gel Permeation Cleanup-Pesticide/PCI	Completed				05/09/2011	3640	DT
	Gel Permeation Cleanup-SVOC Analy.	Completed				05/05/2011	3640	DT

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
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Sample Number: AB73265 SB-15

Pesticides and PCBs

Analytical Method: 8081,8082
Extraction Method: 3545

Date Tested: 05/12/2011
Extraction Date: 05/03/2011

Analyst: MF
Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
SURROGATE	#Decachlorobiphenyl#	50.1			
SURROGATE	#Tetrachloro-m-xylene#	88.8			
72-54-8	4,4'-DDD	Not Detected	24		1.0
72-55-9	4,4'-DDE	Not Detected	24		1.0
50-29-3	4,4'-DDT	Not Detected	24		1.0
319-84-6	a-BHC	Not Detected	12		1.0
5103-71-9	a-Chlordane	Not Detected	24		1.0
509-00-2	Aldrin	Not Detected	24		1.0
12674-11-2	Aroclor 1016	Not Detected	120		1.0
11104-28-2	Aroclor 1221	Not Detected	120		1.0
11141-16-5	Aroclor 1232	Not Detected	120		1.0
63469-21-9	Aroclor 1242	Not Detected	120		1.0
12672-29-6	Aroclor 1248	Not Detected	120		1.0
11097-69-1	Aroclor 1254	Not Detected	120		1.0
11096-82-5	Aroclor 1260	Not Detected	120		1.0
37324-23-5	Aroclor 1262	Not Detected	120		1.0
11100-14-4	Aroclor 1268	Not Detected	120		1.0
319-85-7	b-BHC	Not Detected	24		1.0
319-86-8	d-BHC	Not Detected	24		1.0
60-57-1	Dieldrin	Not Detected	24		1.0
959-98-8	Endosulfan I	Not Detected	24		1.0
33213-65-9	Endosulfan II	Not Detected	24		1.0
1031-07-8	Endosulfan sulfate	Not Detected	24		1.0
72-20-8	Endrin	Not Detected	24		1.0
7421-93-4	Endrin aldehyde	Not Detected	24		1.0
53494-70-5	Endrin ketone	Not Detected	24		1.0
58-89-9	g-BHC (Lindane)	Not Detected	24		1.0
5103-74-2	g-Chlordane	Not Detected	24		1.0
76-44-8	Heptachlor	Not Detected	24		1.0
1024-57-3	Heptachlor epoxide	Not Detected	24		1.0
87-82-1	Hexabromobenzene	Not Detected	120		1.0
72-43-5	Methoxychlor	Not Detected	60		1.0
2385-85-5	Mirex	Not Detected	60		1.0
59080-40-9	PBB (BP-6)	Not Detected	300		1.0
8001-35-2	Toxaphene	Not Detected	200		1.0

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ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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Sample Number: AB73265 SB-15

Base Neutral Acid Compounds

Analytical Method: 8270 Date Tested: 05/13/2011 Analyst: SMH
Extraction Method: 3545 Extraction Date: 05/05/2011 Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
SURROGATE	#2-Fluorobiphenyl#	72.0			
SURROGATE	#2,4,6-Tribromophenol#	60.6			
SURROGATE	#2-Fluorophenol#	57.2			
SURROGATE	#Nitrobenzene - D5#	56.8			
SURROGATE	#Phenol - D6#	68.1			
SURROGATE	#p-Terphenyl-d14#	88.2			
120-82-1	1,2,4-Trichlorobenzene	Not Detected	480		2.0
95-95-4	2,4,5-Trichlorophenol	Not Detected	800		2.0
88-06-2	2,4,6-Trichlorophenol	Not Detected	800		2.0
120-83-2	2,4-Dichlorophenol	Not Detected	800		2.0
105-67-9	2,4-Dimethylphenol	Not Detected	800		2.0
51-28-5	2,4-Dinitrophenol	Not Detected	4100	Z	2.0
121-14-2	2,4-Dinitrotoluene	Not Detected	600		2.0
606-20-2	2,6-Dinitrotoluene	Not Detected	600		2.0
91-58-7	2-Chloronaphthalene	Not Detected	480		2.0
95-57-8	2-Chlorophenol	Not Detected	800		2.0
534-52-1	2-Methyl-4,6-dinitrophenol	Not Detected	4100	Z	2.0
91-57-6	2-Methylnaphthalene	Not Detected	600		2.0
95-48-7	2-Methylphenol (o-Cresol)	Not Detected	800		2.0
88-74-4	2-Nitroaniline	Not Detected	1200		2.0
88-75-5	2-Nitrophenol	Not Detected	800		2.0
108394,106445	3 & 4-Methylphenol	Not Detected	1600		2.0
99-09-2	3-Nitroaniline	Not Detected	1200		2.0
101-55-3	4-Bromophenyl phenyl ether	Not Detected	480		2.0
59-50-7	4-Chloro-3-methyl-phenol	Not Detected	480		2.0
7005-72-3	4-Chlorodiphenylether	Not Detected	240		2.0
100-01-6	4-Nitroaniline	Not Detected	1200		2.0
100-02-7	4-Nitrophenol	Not Detected	4100	Z	2.0
83-32-9	Acenaphthene	Not Detected	240		2.0
208-96-8	Acenaphthylene	Not Detected	240		2.0
120-12-7	Anthracene	Not Detected	240		2.0
103-33-3	Azobenzene	Not Detected	480		2.0
56-55-3	Benzo[a]anthracene	Not Detected	240		2.0
50-32-8	Benzo[a]pyrene	Not Detected	480		2.0
205-99-2	Benzo[b]fluoranthene	Not Detected	480		2.0
191-24-2	Benzo[g,h,i]perylene	Not Detected	480		2.0
207-08-9	Benzo[k]fluoranthene	Not Detected	480		2.0
100-51-6	Benzyl Alcohol	Not Detected	6000		2.0
111-91-1	Bis(2-chloroethoxy)methane	Not Detected	480		2.0
111-44-4	Bis(2-chloroethyl)ether	Not Detected	240		2.0

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Sample Number: AB73265 SB-15

Base Neutral Acid Compounds

Analytical Method: 8270 Date Tested: 05/13/2011 Analyst: SMH
Extraction Method: 3545 Extraction Date: 05/05/2011 Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
108-60-1	Bis(2-chloroisopropyl)ether	Not Detected	240		2.0
117-81-7	Bis(2-ethylhexyl)phthalate	Not Detected	600		2.0
85-68-7	Butyl benzyl phthalate	Not Detected	600		2.0
86-74-8	Carbazole	Not Detected	600		2.0
218-01-9	Chrysene	Not Detected	240		2.0
53-70-3	Dibenz[a,h]anthracene	Not Detected	480		2.0
132-64-9	Dibenzofuran	Not Detected	600		2.0
84-66-2	Diethylphthalate	Not Detected	600		2.0
131-11-3	Dimethyl phthalate	Not Detected	600		2.0
84-74-2	Di-n-butyl phthalate	Not Detected	600		2.0
117-84-0	Di-n-octyl phthalate	Not Detected	600		2.0
206-44-0	Fluoranthene	280	240		2.0
86-73-7	Fluorene	Not Detected	240		2.0
118-74-1	Hexachlorobenzene	Not Detected	480		2.0
87-68-3	Hexachlorobutadiene	Not Detected	240	Z	2.0
77-47-4	Hexachlorocyclopentadiene	Not Detected	2400	Z	2.0
67-72-1	Hexachloroethane	Not Detected	240		2.0
193-39-5	Indeno(1,2,3-c,d)pyrene	Not Detected	480		2.0
78-59-1	Isophorone	Not Detected	240		2.0
91-20-3	Naphthalene	Not Detected	240		2.0
98-95-3	Nitrobenzene	Not Detected	480		2.0
67-75-9	N-Nitrosodimethylamine	Not Detected	600		2.0
621-64-7	N-Nitrosodi-n-propylamine	Not Detected	480		2.0
86-30-6	N-Nitrosodiphenylamine	Not Detected	480		2.0
87-86-5	Pentachlorophenol	Not Detected	4100	Z=800	2.0
85-01-8	Phenanthrene	Not Detected	240		2.0
108-95-2	Phenol	Not Detected	800		2.0
129-00-0	Pyrene	310	240		2.0

RLs raised due to matrix.

Volatile Compounds

Analytical Method: 8260 Date Tested: 05/07/2011 Analyst: SJR
Extraction Method: 5035 Extraction Date: 05/02/2011 Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
	##Weight of sample(grams)	10.37			
SURROGATE	#Bromofluorobenzene#	121			
SURROGATE	#Dibromofluoromethane#	135			
SURROGATE	#Toluene-d8#	137			

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Sample Number: AB73265 SB-15

Volatile Compounds

Analytical Method: 8260 Date Tested: 05/07/2011 Analyst: SJR
Extraction Method: 5035 Extraction Date: 05/02/2011 Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
630-20-6	1,1,1,2-Tetrachloroethane	Not Detected	68		50
71-55-6	1,1,1-Trichloroethane	Not Detected	68		50
79-34-5	1,1,2,2-Tetrachloroethane	Not Detected	68		50
79-00-5	1,1,2-Trichloroethane	Not Detected	68		50
75-34-3	1,1-Dichloroethane	Not Detected	68		50
75-35-4	1,1-Dichloroethylene	Not Detected	68		50
87-61-6	1,2,3-Trichlorobenzene	Not Detected	340		50
96-18-4	1,2,3-Trichloropropane	Not Detected	68		50
526-73-8	1,2,3-Trimethylbenzene	Not Detected	68		50
120-82-1	1,2,4-Trichlorobenzene	Not Detected	340		50
95-63-6	1,2,4-Trimethylbenzene	Not Detected	68		50
96-12-8	1,2-Dibromo-3-chloropropane	Not Detected	340		50
106-93-4	1,2-Dibromoethane	Not Detected	68	Z	50
95-50-1	1,2-Dichlorobenzene	Not Detected	68		50
107-06-2	1,2-Dichloroethane	Not Detected	68		50
78-87-5	1,2-Dichloropropane	Not Detected	68		50
108-67-8	1,3,5-Trimethylbenzene	Not Detected	68		50
541-73-1	1,3-Dichlorobenzene	Not Detected	68		50
106-46-7	1,4-Dichlorobenzene	Not Detected	68		50
78-93-3	2-Butanone (MEK)	Not Detected	340		50
591-78-6	2-Hexanone	Not Detected	340		50
91-57-6	2-Methylnaphthalene	Not Detected	340	X-7	50
67-64-1	2-Propanone (acetone)	Not Detected	1400	5	50
108-10-1	4-Methyl-2-pentanone (MIBK)	Not Detected	340		50
107-13-1	Acrylonitrile	Not Detected	340	Z	50
71-43-2	Benzene	Not Detected	68		50
108-86-1	Bromobenzene	Not Detected	68		50
74-97-5	Bromochloromethane	Not Detected	68		50
75-27-4	Bromodichloromethane	Not Detected	68		50
75-25-2	Bromoform	Not Detected	68		50
74-83-9	Bromomethane	Not Detected	270		50
75-15-0	Carbon disulfide	Not Detected	68		50
56-23-5	Carbon tetrachloride	Not Detected	68		50
108-90-7	Chlorobenzene	Not Detected	68		50
75-00-3	Chloroethane	Not Detected	340		50
67-66-3	Chloroform	Not Detected	68		50
74-87-3	Chloromethane	Not Detected	340		50
156-59-2	cis-1,2-Dichloroethylene	Not Detected	68		50
10061-01-5	cis-1,3-Dichloropropylene	Not Detected	68		50
110-82-7	Cyclohexane	Not Detected	340		50

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Sample Number: AB73265 SB-15

Volatile Compounds

Analytical Method: 8260
Extraction Method: 5035

Date Tested: 05/07/2011
Extraction Date: 05/02/2011

Analyst: SJR
Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
124-48-1	Dibromochloromethane	Not Detected	68		50
74-95-3	Dibromomethane	Not Detected	68		50
75-71-8	Dichlorodifluoromethane	Not Detected	340		50
60-29-7	Diethyl ether	Not Detected	270		50
108-20-3	Diisopropyl Ether	Not Detected	340		50
100-41-4	Ethylbenzene	Not Detected	68		50
637-92-3	Ethyltertiarybutylether	Not Detected	340		50
67-72-1	Hexachloroethane	Not Detected	340		50
98-82-8	Isopropylbenzene	Not Detected	68		50
108383,106423	m & p - Xylene	Not Detected	140		50
74-88-4	Methyl iodide	Not Detected	68		50
75-09-2	Methylene chloride	Not Detected	140		50
1634-04-4	Methyltertiarybutylether	Not Detected	68		50
91-20-3	Naphthalene	Not Detected	340	X	50
104-51-8	n-Butylbenzene	Not Detected	68		50
103-65-1	n-Propylbenzene	Not Detected	68		50
95-47-6	o-Xylene	Not Detected	68		50
99-87-6	p-Isopropyl toluene	Not Detected	68		50
155-98-8	sec-Butylbenzene	Not Detected	68		50
100-42-5	Styrene	Not Detected	68		50
98-06-6	tert-Butylbenzene	Not Detected	68		50
75-65-0	tertiary Butyl Alcohol	Not Detected	3400		50
994-05-8	tertiary Amyl methyl ether	Not Detected	340		50
127-18-4	Tetrachloroethylene	Not Detected	68		50
109-99-9	Tetrahydrofuran	Not Detected	340		50
108-88-3	Toluene	Not Detected	68		50
156-60-5	trans-1,2-Dichloroethylene	Not Detected	68		50
10061-02-6	trans-1,3-Dichloropropylene	Not Detected	68		50
110-57-6	trans-1,4-Dichloro-2-butene	Not Detected	340	Z	50
79-01-6	Trichloroethylene	Not Detected	68		50
75-69-4	Trichlorofluoromethane	Not Detected	68		50
75-01-4	Vinyl chloride	Not Detected	68	Z	50

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Sample Number: AB73265 SB-15

CAS#	Analyte Name	Result	Unit	RL	Qualifier	Date Tested	Method	Analyst
57-12-5	Cyanide - Sediment	ND	mg/Kg dry	0.1		05/17/2011	ASTM D 751	MB
	Cyanide-Extraction	Completed				05/10/2011	9013	MB
	Digest Mercury - Sediment	Completed				05/11/2011	7471	TS
7439-97-6	Mercury - Sediment	ND	mg/Kg dry	0.05		05/12/2011	7471	TS
7440-36-0	Antimony - Sediment	0.39	mg/Kg dry	0.3		05/21/2011	6020	KS
7440-38-2	Arsenic - Sediment	5.8	mg/Kg dry	0.5		05/18/2011	6020	KS
7440-39-3	Barium - Sediment	43	mg/Kg dry	1		05/18/2011	6020	KS
7440-41-7	Beryllium - Sediment	0.45	mg/Kg dry	0.2		05/18/2011	6020	KS
7440-43-9	Cadmium - Sediment	0.21	mg/Kg dry	0.2		05/18/2011	6020	KS
7440-47-3	Chromium - Sediment	29	mg/Kg dry	2		05/18/2011	6020	KS
7440-48-4	Cobalt - Sediment	6.4	mg/Kg dry	.5		05/18/2011	6020	KS
7440-50-8	Copper - Sediment	18	mg/Kg dry	1		05/18/2011	6020	KS
	Digest Antimony - Sediment	Completed				05/20/2011	3050	WN
	Digest Metals - Sediment	Completed				05/17/2011	3050	WN
7439-89-6	Iron - Sediment	20000	mg/Kg dry	50	D	05/25/2011	6010	WN
7439-92-1	Lead - Sediment	16	mg/Kg dry	1		05/18/2011	6020	KS
7439-96-5	Manganese - Sediment	720	mg/Kg dry	1		05/18/2011	6020	KS
7439-98-7	Molybdenum - Sediment	1.6	mg/Kg dry	1		05/18/2011	6020	KS
7440-02-0	Nickel - Sediment	21	mg/Kg dry	1		05/18/2011	6020	KS
7782-49-2	Selenium - Sediment	0.21	mg/Kg dry	0.2		05/18/2011	6020	KS
7440-22-4	Silver - Sediment	ND	mg/Kg dry	0.1		05/18/2011	6020	KS
7440-28-0	Thallium - Sediment	ND	mg/Kg dry	0.5		05/18/2011	6020	KS
7440-62-2	Vanadium - Sediment	23	mg/Kg dry	1		05/18/2011	6020	KS
7440-66-6	Zinc - Sediment	58	mg/Kg dry	1		05/18/2011	6020	KS
	% Total Solids	83.0	%	0.1		05/14/2011	2540B SM	KS
	Drying and Grinding - Sediment	COMPLETE				05/14/2011		KS
	Gel Permeation Cleanup-Pesticide/PCI	Completed				05/09/2011	3640	DT
	Gel Permeation Cleanup-SVOC Analy	Completed				05/05/2011	3640	DT

CAS# : Chemical Abstract Service Registry Number
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ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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Organic Unit Mgr: Carol Smith
Systems Mgmt Unit: George Krisztian



MICHIGAN DEPARTMENT OF NATURAL RESOURCES AND ENVIRONMENT
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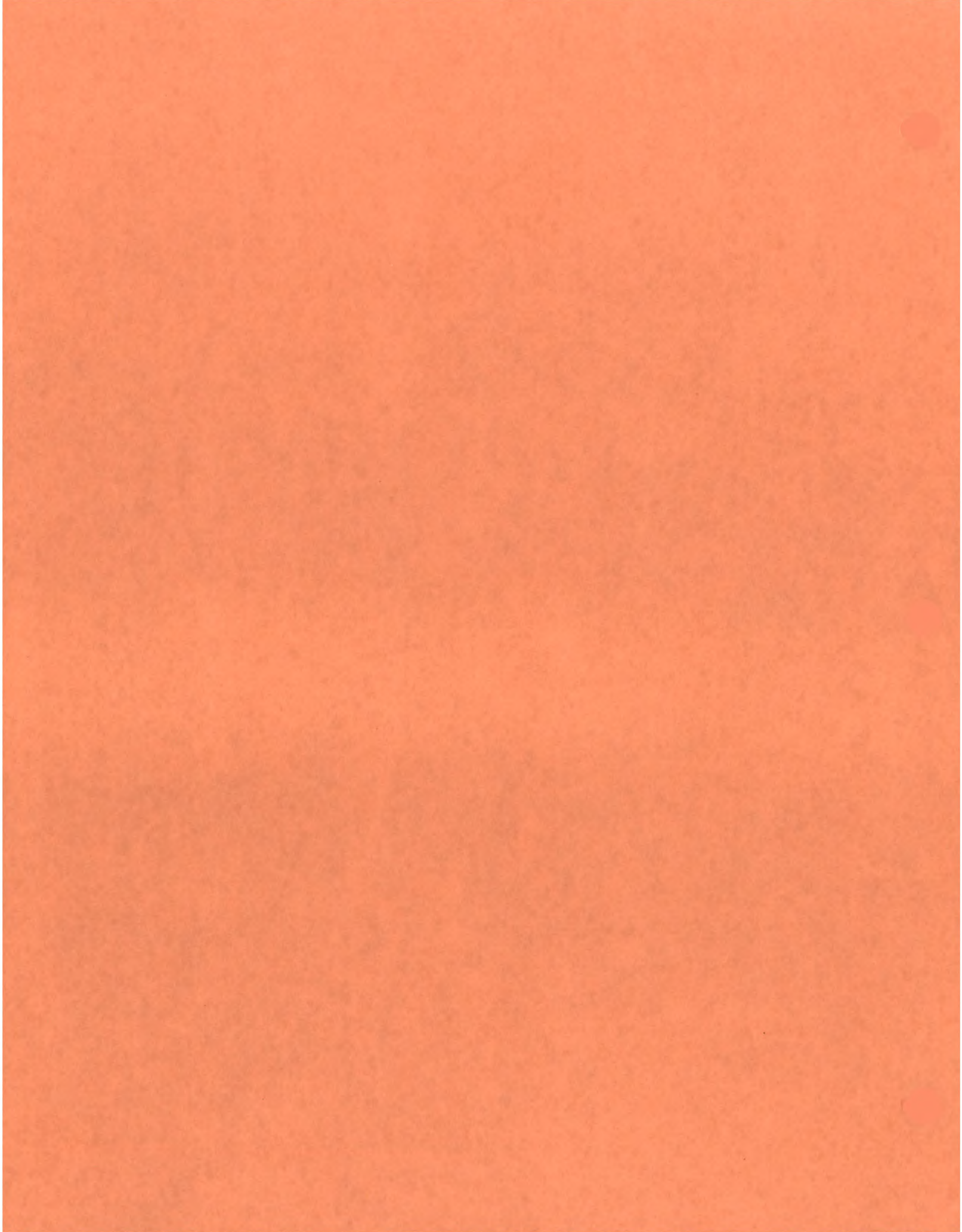
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Lansing, MI 48909
TEL: (517) 335-9800
FAX: (517) 335-9600

<u>Qualifier Code</u>	<u>Qualifier Description</u>
1	Result(s) and RL(s) are estimated due to low surrogate recovery.
2	Result is estimated due to high surrogate recovery.
3	Result(s) and RL(s) are estimated due to low matrix spike recovery.
4	Result is estimated due to high matrix spike recovery.
5	Result and RL are estimated due to low continuing calibration standard criteria failure.
6	Result is estimated due to high continuing calibration standard criteria failure.
7	Result(s) and RL(s) are estimated due to poor precision.
8	Result(s) and RL(s) are estimated due to low recovery of batch QC.
9	Result outside QC acceptance criteria.
A	Value reported is the mean of two or more determinations.
C	Value calculated from other independent parameters.
D	Analyte value quantified from a dilution(s); reporting limit (RL) raised.
E	Result is estimated due to high recovery of batch QC.
F	Amenable cyanide was not analyzed due to low level of total cyanide.
G	Result and RL are estimated due to initial calibration standard criteria failure.
H	Recommended laboratory holding time was exceeded.
I	Dilution required due to matrix interference; reporting limit (RL) raised.
J	Analyte was positively identified. Value is an estimate.
JA	Result is estimated due to multiple Aroclors present.
JC	Result is estimated since confirmation analysis did not meet acceptance criteria
JD	Due to severe degradation, specific Aroclor identification is difficult and quantitation is estimated.
K	RL(s) raised due to matrix interferences.
KR	RL(s) raised due to low sample volume submitted.
KS	RL(s) raised due to low total solids.
KW	RL(s) raised due to light sample weight.
LB	Reported library search compounds are tentative identifications with estimated concentrations.
M	The level of the method preparation blank (MPB) is reported in the qualifier column.
N	Non-homogeneous sample made analysis of sample questionable.
O	Result and RL estimated due to analysis from an open vial.
P	Recommended sample collection/preservation technique not used; reported result(s) is an estimate.
Q	Quantity of sample insufficient to perform analyses requested.
R	Result confirmed by re-extraction and analysis.
S	Supernatant analyzed.
T	Reported value is less than the reporting limit (RL). Result is estimated.
V	Value not available due to dilution.
W	Reported value is less than the method detection limit (MDL).
X	Methods 8260 & 624 are used to analyze volatile organics that have boiling points below 200°C. 2-Methylnaphthalene & naphthalene have boiling points above 200°C and are better suited to analysis by methods 8270 or 625 as semivolatile organics.
PI	Possible interference may have affected the accuracy of the laboratory result
Z	Result reported below the RL to meet the TDL in RRD Op Memo 2 (10/22/04) multiplied by applicable dilution factor:

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
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Division: RD
 Report to: TERESA DUCSAY
 MDEQ-RD-LANSING
 CONSTITUTION HALL
 525 W. ALLEGAN, LANSING, MI 48909

Lab Work Order #: 10400187
 Work Site ID: LB041003
 Site Name: TREE FARM
 Received: 04/28/2011
 Reported: 06/10/2011
 Collected By: TERESA DUCASY

Total: \$16,569.00

Samples Received :

No:	Sample ID	Sample Description	Matrix:	Collection Date
01	AB73266	SS-01	SEDIMENT	04/26/2011
02	AB73267	SS-02	SEDIMENT	04/26/2011
03	AB73268	SS-02-DUP	SEDIMENT	04/26/2011
04	AB73269	SS-03	SEDIMENT	04/26/2011
05	AB73270	SS-03-MS	SEDIMENT	04/26/2011
06	AB73271	SS-03-MSD	SEDIMENT	04/26/2011
07	AB73272	SS-04	SEDIMENT	04/27/2011
08	AB73273	SS-05	SEDIMENT	04/27/2011
09	AB73274	SS-06	SEDIMENT	04/26/2011
10	AB73275	SS-07	SEDIMENT	04/26/2011
11	AB73276	SS-08	SEDIMENT	04/27/2011
12	AB73277	SS-09	SEDIMENT	04/27/2011
13	AB73278	SS-10	SEDIMENT	04/26/2011
14	AB73279	SS-11	SEDIMENT	04/26/2011
15	AB73280	SS-12	SEDIMENT	04/26/2011
16	AB73281	SS-13	SEDIMENT	04/26/2011
17	AB73282	SS-14	SEDIMENT	04/26/2011
18	AB73283	SS-15	SEDIMENT	04/26/2011

I certify that the analysis performed by the MDEQ Environmental Laboratory are accurate and that the laboratory tests were conducted by methods approved by the U.S. Environmental Protection Agency and other appropriate regulatory agencies.

George L. Krisztian,
 Acting Laboratory Director



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Sample Number: AB73266 SS-01

Pesticides and PCBs

Analytical Method: 8081,8082
Extraction Method: 3545

Date Tested: 05/12/2011
Extraction Date: 05/03/2011

Analyst: MF
Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
SURROGATE	#Decachlorobiphenyl#	59.9			
SURROGATE	#Tetrachloro-m-xylene#	82.3			
72-54-8	4,4'-DDD	Not Detected	22		1.0
72-55-9	4,4'-DDE	Not Detected	22		1.0
50-29-3	4,4'-DDT	Not Detected	22		1.0
319-84-6	a-BHC	Not Detected	11		1.0
5103-71-9	a-Chlordane	Not Detected	22		1.0
309-00-2	Aldrin	Not Detected	22		1.0
12674-11-2	Aroclor 1016	Not Detected	110		1.0
11104-28-2	Aroclor 1221	Not Detected	110		1.0
11141-16-5	Aroclor 1232	Not Detected	110		1.0
53469-21-9	Aroclor 1242	Not Detected	110		1.0
12672-29-6	Aroclor 1248	Not Detected	110		1.0
11097-69-1	Aroclor 1254	Not Detected	110		1.0
11096-82-5	Aroclor 1260	Not Detected	110		1.0
57324-23-5	Aroclor 1262	Not Detected	110		1.0
11100-14-4	Aroclor 1268	Not Detected	110		1.0
319-85-7	b-BHC	Not Detected	22		1.0
319-86-8	d-BHC	Not Detected	22		1.0
60-57-1	Dieldrin	Not Detected	22		1.0
959-98-8	Endosulfan I	Not Detected	22		1.0
33213-65-9	Endosulfan II	Not Detected	22		1.0
1031-07-8	Endosulfan sulfate	Not Detected	22		1.0
72-20-8	Endrin	Not Detected	22		1.0
7421-93-4	Endrin aldehyde	Not Detected	22		1.0
53494-70-5	Endrin ketone	Not Detected	22		1.0
58-89-9	g-BHC (Lindane)	Not Detected	22		1.0
5103-74-2	g-Chlordane	Not Detected	22		1.0
76-44-8	Heptachlor	Not Detected	22		1.0
1024-57-3	Heptachlor epoxide	Not Detected	22		1.0
87-82-1	Hexabromobenzene	Not Detected	110		1.0
72-43-5	Methoxychlor	Not Detected	55		1.0
2385-85-5	Mirex	Not Detected	55		1.0
59080-40-9	PBB (BP-6)	Not Detected	270		1.0
8001-35-2	Toxaphene	Not Detected	190		1.0

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ug / Kg : microgram / kilogram (ppb)
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Sample Number: AB73266 SS-01

Base Neutral Acid Compounds

Analytical Method: 8270 Date Tested: 05/12/2011 Analyst: SMH
Extraction Method: 3545 Extraction Date: 05/05/2011 Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
SURROGATE	#2-Fluorobiphenyl#	66.9			
SURROGATE	#2,4,6-Tribromophenol#	69.0			
SURROGATE	#2-Fluorophenol#	63.2			
SURROGATE	#Nitrobenzene - D5#	63.8			
SURROGATE	#Phenol - D6#	73.2			
SURROGATE	#p-Terphenyl-d14#	72.3			
120-82-1	1,2,4-Trichlorobenzene	Not Detected	440		2.0
95-95-4	2,4,5-Trichlorophenol	Not Detected	720		2.0
88-06-2	2,4,6-Trichlorophenol	Not Detected	720		2.0
120-83-2	2,4-Dichlorophenol	Not Detected	720		2.0
105-67-9	2,4-Dimethylphenol	Not Detected	720		2.0
51-28-5	2,4-Dinitrophenol	Not Detected	3700	Z	2.0
121-14-2	2,4-Dinitrotoluene	Not Detected	550		2.0
606-20-2	2,6-Dinitrotoluene	Not Detected	550		2.0
91-58-7	2-Chloronaphthalene	Not Detected	440		2.0
95-57-8	2-Chlorophenol	Not Detected	720		2.0
534-52-1	2-Methyl-4,6-dinitrophenol	Not Detected	3700	Z	2.0
91-57-6	2-Methylnaphthalene	Not Detected	550		2.0
95-48-7	2-Methylphenol (o-Cresol)	Not Detected	720		2.0
88-74-4	2-Nitroaniline	Not Detected	1100		2.0
88-75-5	2-Nitrophenol	Not Detected	720		2.0
108394,106445	3 & 4-Methylphenol	Not Detected	1400		2.0
99-09-2	3-Nitroaniline	Not Detected	1100		2.0
101-55-3	4-Bromophenyl phenyl ether	Not Detected	440		2.0
59-50-7	4-Chloro-3-methylphenol	Not Detected	440		2.0
7005-72-3	4-Chlorodiphenylether	Not Detected	220		2.0
100-01-6	4-Nitroaniline	Not Detected	1100		2.0
100-02-7	4-Nitrophenol	Not Detected	3700	Z	2.0
83-32-9	Acenaphthene	Not Detected	220		2.0
208-96-8	Acenaphthylene	Not Detected	220		2.0
120-12-7	Anthracene	Not Detected	220		2.0
103-33-3	Azobenzene	Not Detected	440		2.0
56-55-3	Benzo[a]anthracene	Not Detected	220		2.0
50-32-8	Benzo[a]pyrene	Not Detected	440		2.0
205-99-2	Benzo[b]fluoranthene	Not Detected	440		2.0
191-24-2	Benzo[g,h,i]perylene	Not Detected	440		2.0
207-08-9	Benzo[k]fluoranthene	Not Detected	440		2.0
100-51-6	Benzyl Alcohol	Not Detected	5500		2.0
111-91-1	Bis(2-chloroethoxy)methane	Not Detected	440		2.0
111-44-4	Bis(2-chloroethyl)ether	Not Detected	220		2.0

CAS# : Chemical Abstract Service Registry Number
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Sample Number: AB73266 SS-01

Base Neutral Acid Compounds

Analytical Method: 8270 Date Tested: 05/12/2011 Analyst: SMH
Extraction Method: 3545 Extraction Date: 05/05/2011 Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
108-60-1	Bis(2-chloroisopropyl)ether	Not Detected	220		2.0
117-81-7	Bis(2-ethylhexyl)phthalate	Not Detected	550		2.0
85-68-7	Butyl benzyl phthalate	Not Detected	550		2.0
86-74-8	Carbazole	Not Detected	550		2.0
218-01-9	Chrysene	Not Detected	220		2.0
53-70-3	Dibenz[a,h]anthracene	Not Detected	440		2.0
132-64-9	Dibenzofuran	Not Detected	550		2.0
84-66-2	Diethylphthalate	Not Detected	550		2.0
131-11-3	Dimethyl phthalate	Not Detected	550		2.0
84-74-2	Di-n-butyl phthalate	Not Detected	550		2.0
117-84-0	Di-n-octyl phthalate	Not Detected	550		2.0
206-44-0	Fluoranthene	Not Detected	220		2.0
86-73-7	Fluorene	Not Detected	220		2.0
118-74-1	Hexachlorobenzene	Not Detected	440		2.0
87-68-3	Hexachlorobutadiene	Not Detected	220	Z	2.0
77-47-4	Hexachlorocyclopentadiene	Not Detected	2200	Z	2.0
67-72-1	Hexachloroethane	Not Detected	220		2.0
193-39-5	Indeno(1,2,3-c,d)pyrene	Not Detected	440		2.0
78-59-1	Isophorone	Not Detected	220		2.0
91-20-3	Naphthalene	Not Detected	220		2.0
98-95-3	Nitrobenzene	Not Detected	440		2.0
67-75-9	N-Nitrosodimethylamine	Not Detected	550		2.0
621-64-7	N-Nitrosodi-n-propylamine	Not Detected	440		2.0
86-30-6	N-Nitrosodiphenylamine	Not Detected	440		2.0
87-86-5	Pentachlorophenol	Not Detected	3700	Z=800	2.0
85-01-8	Phenanthrene	Not Detected	220		2.0
108-95-2	Phenol	Not Detected	220		2.0
129-00-0	Pyrene	Not Detected	220		2.0

RLs raised due to matrix.

Volatile Compounds

Analytical Method: 8260 Date Tested: 05/09/2011 Analyst: SJR
Extraction Method: 5035 Extraction Date: 05/02/2011 Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
	##Weight of sample(grams)	10.93			
SURROGATE	#Bromofluorobenzene#	114			
SURROGATE	#Dibromofluoromethane#	133			
SURROGATE	#Toluene-d8#	122			

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

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Sample Number: AB73266 SS-01

Volatile Compounds

Analytical Method: 8260 Date Tested: 05/09/2011 Analyst: SJR
Extraction Method: 5035 Extraction Date: 05/02/2011 Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
630-20-6	1,1,1,2-Tetrachloroethane	Not Detected	60		50
71-55-6	1,1,1-Trichloroethane	Not Detected	60		50
79-34-5	1,1,2,2-Tetrachloroethane	Not Detected	60		50
79-00-5	1,1,2-Trichloroethane	Not Detected	60		50
75-34-3	1,1-Dichloroethane	Not Detected	60		50
75-35-4	1,1-Dichloroethylene	Not Detected	60		50
87-61-6	1,2,3-Trichlorobenzene	Not Detected	300		50
96-18-4	1,2,3-Trichloropropane	Not Detected	60		50
526-73-8	1,2,3-Trimethylbenzene	Not Detected	60		50
120-82-1	1,2,4-Trichlorobenzene	Not Detected	300		50
95-63-6	1,2,4-Trimethylbenzene	Not Detected	60		50
96-12-8	1,2-Dibromo-3-chloropropane	Not Detected	300		50
106-93-4	1,2-Dibromoethane	Not Detected	60	Z	50
95-50-1	1,2-Dichlorobenzene	Not Detected	60		50
107-06-2	1,2-Dichloroethane	Not Detected	60		50
78-87-5	1,2-Dichloropropane	Not Detected	60		50
108-67-8	1,3,5-Trimethylbenzene	Not Detected	60		50
541-73-1	1,3-Dichlorobenzene	Not Detected	60		50
106-46-7	1,4-Dichlorobenzene	Not Detected	60		50
78-93-3	2-Butanone (MEK)	Not Detected	300	7	50
591-78-6	2-Hexanone	Not Detected	300		50
91-57-6	2-Methylnaphthalene	Not Detected	300	X	50
67-64-1	2-Propanone (acetone)	Not Detected	1200		50
108-10-1	4-Methyl-2-pentanone (MIBK)	Not Detected	300		50
107-13-1	Acrylonitrile	Not Detected	300	Z	50
71-43-2	Benzene	Not Detected	60		50
108-86-1	Bromobenzene	Not Detected	60		50
74-97-5	Bromochloromethane	Not Detected	60		50
75-27-4	Bromodichloromethane	Not Detected	60		50
75-25-2	Bromoform	Not Detected	60		50
74-83-9	Bromomethane	Not Detected	240		50
75-15-0	Carbon disulfide	Not Detected	60		50
56-23-5	Carbon tetrachloride	Not Detected	60		50
108-90-7	Chlorobenzene	Not Detected	60		50
75-00-3	Chloroethane	Not Detected	300		50
67-66-3	Chloroform	Not Detected	60		50
74-87-3	Chloromethane	Not Detected	300		50
156-59-2	cis-1,2-Dichloroethylene	Not Detected	60		50
10061-01-5	cis-1,3-Dichloropropylene	Not Detected	60		50
110-82-7	Cyclohexane	Not Detected	300		50

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Sample Number: AB73266 SS-01

Volatile Compounds

Analytical Method: 8260
Extraction Method: 5035

Date Tested: 05/09/2011
Extraction Date: 05/02/2011

Analyst: SJR
Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
124-48-1	Dibromochloromethane	Not Detected	60		50
74-95-3	Dibromomethane	Not Detected	60		50
75-71-8	Dichlorodifluoromethane	Not Detected	300		50
60-29-7	Diethyl ether	Not Detected	240		50
108-20-3	Diisopropyl Ether	Not Detected	300		50
100-41-4	Ethylbenzene	Not Detected	60		50
637-92-3	Ethyltertiarybutylether	Not Detected	300		50
67-72-1	Hexachloroethane	Not Detected	300		50
98-82-8	Isopropylbenzene	Not Detected	60		50
108383,106423	m & p - Xylene	Not Detected	120		50
74-88-4	Methyl iodide	Not Detected	60		50
75-09-2	Methylene chloride	Not Detected	120		50
1634-04-4	Methyltertiarybutylether	Not Detected	60		50
91-20-3	Naphthalene	Not Detected	300	X	50
104-51-8	n-Butylbenzene	Not Detected	60		50
103-65-1	n-Propylbenzene	Not Detected	60		50
95-47-6	o-Xylene	Not Detected	60		50
99-87-6	p-Isopropyl toluene	Not Detected	60		50
135-98-8	sec-Butylbenzene	Not Detected	60		50
100-42-5	Styrene	Not Detected	60		50
98-06-6	tert-Butylbenzene	Not Detected	60		50
75-65-0	tertiary Butyl Alcohol	Not Detected	3000		50
994-05-8	tertiary Amyl methyl ether	Not Detected	300		50
127-18-4	Tetrachloroethylene	Not Detected	60		50
109-99-9	Tetrahydrofuran	Not Detected	300		50
108-88-3	Toluene	Not Detected	60		50
156-60-5	trans-1,2-Dichloroethylene	Not Detected	60		50
10061-02-6	trans-1,3-Dichloropropylene	Not Detected	60		50
110-57-6	trans-1,4-Dichloro-2-butene	Not Detected	300	Z	50
79-01-6	Trichloroethylene	Not Detected	60		50
75-69-4	Trichlorofluoromethane	Not Detected	60		50
75-01-4	Vinyl chloride	Not Detected	60	7Z	50

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Sample Number: AB73266 SS-01

CAS#	Analyte Name	Result	Unit	RL	Qualifier	Date Tested	Method	Analyst
57-12-5	Cyanide - Sediment	0.2	mg/Kg dry	0.1		05/17/2011	ASTM D 751	MB
	Cyanide-Extraction	Completed				05/10/2011	9013	MB
	Digest Mercury - Sediment	Completed				05/11/2011	7471	TS
7439-97-6	Mercury - Sediment	0.8	mg/Kg dry	0.05		05/12/2011	7471	TS
7440-36-0	Antimony - Sediment	ND	mg/Kg dry	0.3		05/21/2011	6020	KS
7440-38-2	Arsenic - Sediment	1.8	mg/Kg dry	0.5		05/18/2011	6020	KS
7440-39-3	Barium - Sediment	27	mg/Kg dry	1		05/18/2011	6020	KS
7440-41-7	Beryllium - Sediment	ND	mg/Kg dry	0.2		05/18/2011	6020	KS
7440-43-9	Cadmium - Sediment	0.35	mg/Kg dry	0.2		05/18/2011	6020	KS
7440-47-3	Chromium - Sediment	9.1	mg/Kg dry	2		05/18/2011	6020	KS
7440-48-4	Cobalt - Sediment	1.9	mg/Kg dry	.5		05/18/2011	6020	KS
7440-50-8	Copper - Sediment	5.4	mg/Kg dry	1		05/18/2011	6020	KS
	Digest Antimony - Sediment	Completed				05/20/2011	3050	WN
	Digest Metals - Sediment	Completed				05/17/2011	3050	WN
7439-89-6	Iron - Sediment	4900	mg/Kg dry	50	D	05/25/2011	6010	WN
7439-92-1	Lead - Sediment	21	mg/Kg dry	1		05/18/2011	6020	KS
7439-96-5	Manganese - Sediment	200	mg/Kg dry	1		05/18/2011	6020	KS
7439-98-7	Molybdenum - Sediment	ND	mg/Kg dry	1		05/18/2011	6020	KS
7440-02-0	Nickel - Sediment	5.3	mg/Kg dry	1		05/18/2011	6020	KS
7782-49-2	Selenium - Sediment	ND	mg/Kg dry	0.2		05/18/2011	6020	KS
7440-22-4	Silver - Sediment	0.13	mg/Kg dry	0.1		05/18/2011	6020	KS
7440-28-0	Thallium - Sediment	ND	mg/Kg dry	0.5		05/18/2011	6020	KS
7440-62-2	Vanadium - Sediment	6.2	mg/Kg dry	1		05/18/2011	6020	KS
7440-66-6	Zinc - Sediment	33	mg/Kg dry	1		05/18/2011	6020	KS
	% Total Solids	91.4	%	0.1		05/14/2011	2540B SM	KS
	Drying and Grinding - Sediment	COMPLETE				05/14/2011		KS
	Gel Permeation Cleanup-Pesticide/PCI	Completed				05/09/2011	3640	DT
	Gel Permeation Cleanup-SVOC Analy	Completed				05/05/2011	3640	DT

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
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ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
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Sample Number: AB73267 SS-02

Pesticides and PCBs

Analytical Method: 8081,8082 Date Tested: 05/12/2011 Analyst: MF
Extraction Method: 3545 Extraction Date: 05/03/2011 Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
SURROGATE	#Decachlorobiphenyl#	65.3			
SURROGATE	#Tetrachloro-m-xylene#	86.8			
72-54-8	4,4'-DDD	13	27	T	1.0
72-55-9	4,4'-DDE	18	27	T	1.0
50-29-3	4,4'-DDT	150	27		1.0
319-84-6	a-BHC	Not Detected	13		1.0
5103-71-9	a-Chlordane	Not Detected	27		1.0
309-00-2	Aldrin	Not Detected	27		1.0
12674-11-2	Aroclor 1016	Not Detected	130		1.0
11104-28-2	Aroclor 1221	Not Detected	130		1.0
11141-16-5	Aroclor 1232	Not Detected	130		1.0
53469-21-9	Aroclor 1242	Not Detected	130		1.0
12672-29-6	Aroclor 1248	Not Detected	130		1.0
11097-69-1	Aroclor 1254	Not Detected	130		1.0
11096-82-5	Aroclor 1260	Not Detected	130		1.0
37324-23-5	Aroclor 1262	Not Detected	130		1.0
11100-14-4	Aroclor 1268	Not Detected	130		1.0
319-85-7	b-BHC	Not Detected	27		1.0
319-86-8	d-BHC	Not Detected	27		1.0
60-57-1	Dieldrin	Not Detected	27		1.0
959-98-8	Endosulfan I	Not Detected	27		1.0
33213-65-9	Endosulfan II	Not Detected	27		1.0
1031-07-8	Endosulfan sulfate	Not Detected	27		1.0
72-20-8	Endrin	Not Detected	27		1.0
7421-93-4	Endrin aldehyde	Not Detected	27		1.0
53494-70-5	Endrin ketone	Not Detected	27		1.0
58-89-9	g-BHC (Lindane)	Not Detected	27		1.0
5103-74-2	g-Chlordane	Not Detected	27		1.0
76-44-8	Heptachlor	Not Detected	27		1.0
1024-57-3	Heptachlor epoxide	Not Detected	27		1.0
87-82-1	Hexabromobenzene	Not Detected	130		1.0
72-43-5	Methoxychlor	Not Detected	67		1.0
2385-85-5	Mirex	Not Detected	67		1.0
59080-40-9	PBB (BP-6)	Not Detected	340		1.0
8001-35-2	Toxaphene	Not Detected	230		1.0

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Sample Number: AB73267 SS-02

Base Neutral Acid Compounds

Analytical Method: 8270 Date Tested: 05/12/2011 Analyst: SMH
Extraction Method: 3545 Extraction Date: 05/05/2011 Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
SURROGATE	#2 - Fluorobiphenyl#	77.9			
SURROGATE	#2,4,6-Tribromophenol#	75.9			
SURROGATE	#2-Fluorophenol#	74.2			
SURROGATE	#Nitrobenzene - D5#	73.4			
SURROGATE	#Phenol - D6#	82.4			
SURROGATE	#p-Terphenyl-d14#	76.9			
120-82-1	1,2,4-Trichlorobenzene	Not Detected	540		2.0
95-95-4	2,4,5-Trichlorophenol	Not Detected	890		2.0
88-06-2	2,4,6-Trichlorophenol	Not Detected	890		2.0
120-83-2	2,4-Dichlorophenol	Not Detected	890		2.0
105-67-9	2,4-Dimethylphenol	Not Detected	890		2.0
51-28-5	2,4-Dinitrophenol	Not Detected	4600	Z	2.0
121-14-2	2,4-Dinitrotoluene	Not Detected	670		2.0
606-20-2	2,6-Dinitrotoluene	Not Detected	670		2.0
91-58-7	2-Chloronaphthalene	Not Detected	540		2.0
95-57-8	2-Chlorophenol	Not Detected	890		2.0
534-52-1	2-Methyl-4,6-dinitrophenol	Not Detected	4600	Z	2.0
91-57-6	2-Methylnaphthalene	Not Detected	670		2.0
95-48-7	2-Methylphenol (o-Cresol)	Not Detected	890		2.0
88-74-4	2-Nitroaniline	Not Detected	1300		2.0
88-75-5	2-Nitrophenol	Not Detected	890		2.0
108394,106445	3 & 4-Methylphenol	Not Detected	1800		2.0
99-09-2	3-Nitroaniline	Not Detected	1300		2.0
101-55-3	4-Bromophenyl phenyl ether	Not Detected	540		2.0
59-50-7	4-Chloro-3-methyl-phenol	Not Detected	540		2.0
7005-72-3	4-Chlorodiphenylether	Not Detected	270		2.0
100-01-6	4-Nitroaniline	Not Detected	1300		2.0
100-02-7	4-Nitrophenol	Not Detected	4600	Z	2.0
83-32-9	Acenaphthene	Not Detected	270		2.0
208-96-8	Acenaphthylene	Not Detected	270		2.0
120-12-7	Anthracene	Not Detected	270		2.0
103-33-3	Azobenzene	Not Detected	540		2.0
56-55-3	Benzo[a]anthracene	Not Detected	270		2.0
50-32-8	Benzo[a]pyrene	Not Detected	540		2.0
205-99-2	Benzo[b]fluoranthene	Not Detected	540		2.0
191-24-2	Benzo[ghi]perylene	Not Detected	540		2.0
207-08-9	Benzo[k]fluoranthene	Not Detected	540		2.0
100-51-6	Benzyl Alcohol	Not Detected	6700		2.0
111-91-1	Bis(2-chloroethoxy)methane	Not Detected	540		2.0
111-44-4	Bis(2-chloroethyl)ether	Not Detected	270		2.0

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Sample Number: AB73267 SS-02

Base Neutral Acid Compounds

Analytical Method: 8270 Date Tested: 05/12/2011 Analyst: SMH
Extraction Method: 3545 Extraction Date: 05/05/2011 Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
108-60-1	Bis(2-chloroisopropyl)ether	Not Detected	270		2.0
117-81-7	Bis(2-ethylhexyl)phthalate	Not Detected	670		2.0
85-68-7	Butyl benzyl phthalate	Not Detected	670		2.0
86-74-8	Carbazole	Not Detected	670		2.0
218-01-9	Chrysene	Not Detected	270		2.0
53-70-3	Dibenz[a,h]anthracene	Not Detected	540		2.0
132-64-9	Dibenzofuran	Not Detected	670		2.0
84-66-2	Diethylphthalate	Not Detected	670		2.0
131-11-3	Dimethyl phthalate	Not Detected	670		2.0
84-74-2	Di-n-butyl phthalate	Not Detected	670		2.0
117-84-0	Di-n-octyl phthalate	Not Detected	670		2.0
206-44-0	Fluoranthene	Not Detected	270		2.0
86-73-7	Fluorene	Not Detected	270		2.0
118-74-1	Hexachlorobenzene	Not Detected	540		2.0
87-68-3	Hexachlorobutadiene	Not Detected	270	Z	2.0
77-47-4	Hexachlorocyclopentadiene	Not Detected	2700	Z	2.0
67-72-1	Hexachloroethane	Not Detected	270		2.0
193-39-5	Indeno(1,2,3-c,d)pyrene	Not Detected	540		2.0
78-59-1	Isophorone	Not Detected	270		2.0
91-20-3	Naphthalene	Not Detected	270		2.0
98-95-3	Nitrobenzene	Not Detected	540		2.0
67-75-9	N-Nitrosodimethylamine	Not Detected	670		2.0
621-64-7	N-Nitrosodi-n-propylamine	Not Detected	540		2.0
86-30-6	N-Nitrosodiphenylamine	Not Detected	540		2.0
87-86-5	Pentachlorophenol	Not Detected	4600	Z=800	2.0
85-01-8	Phenanthrene	Not Detected	270		2.0
108-95-2	Phenol	Not Detected	890		2.0
129-00-0	Pyrene	Not Detected	270		2.0

RLs raised due to matrix.

Volatile Compounds

Analytical Method: 8260 Date Tested: 05/06/2011 Analyst: SJR
Extraction Method: 5035 Extraction Date: 05/02/2011 Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
	##Weight of sample(grams)	8.67			
SURROGATE	#Bromofluorobenzene#	127			
SURROGATE	#Dibromofluoromethane#	145			
SURROGATE	#Toluene-d8#	145			

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Sample Number: AB73267 SS-02

Volatile Compounds

Analytical Method: 8260 Date Tested: 05/06/2011 Analyst: SJR
Extraction Method: 5035 Extraction Date: 05/02/2011 Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
630-20-6	1,1,1,2-Tetrachloroethane	Not Detected	95		50
71-55-6	1,1,1-Trichloroethane	Not Detected	95		50
79-34-5	1,1,2,2-Tetrachloroethane	Not Detected	95		50
79-00-5	1,1,2-Trichloroethane	Not Detected	95		50
75-34-3	1,1-Dichloroethane	Not Detected	95		50
75-35-4	1,1-Dichloroethylene	Not Detected	95		50
87-61-6	1,2,3-Trichlorobenzene	Not Detected	470	7	50
96-18-4	1,2,3-Trichloropropane	Not Detected	95		50
526-73-8	1,2,3-Trimethylbenzene	Not Detected	95		50
120-82-1	1,2,4-Trichlorobenzene	Not Detected	470		50
95-63-6	1,2,4-Trimethylbenzene	Not Detected	95		50
96-12-8	1,2-Dibromo-3-chloropropane	Not Detected	470		50
106-93-4	1,2-Dibromoethane	Not Detected	95	Z	50
95-50-1	1,2-Dichlorobenzene	Not Detected	95		50
107-06-2	1,2-Dichloroethane	Not Detected	95		50
78-87-5	1,2-Dichloropropane	Not Detected	95		50
108-67-8	1,3,5-Trimethylbenzene	Not Detected	95		50
541-73-1	1,3-Dichlorobenzene	Not Detected	95		50
106-46-7	1,4-Dichlorobenzene	Not Detected	95		50
78-93-3	2-Butanone (MEK)	Not Detected	470		50
591-78-6	2-Hexanone	Not Detected	470		50
91-57-6	2-Methylnaphthalene	Not Detected	470	X7	50
67-64-1	2-Propanone (acetone)	Not Detected	1900	7	50
108-10-1	4-Methyl-2-pentanone (MIBK)	Not Detected	470		50
107-13-1	Acrylonitrile	Not Detected	470	Z	50
71-43-2	Benzene	Not Detected	95		50
108-86-1	Bromobenzene	Not Detected	95		50
74-97-5	Bromochloromethane	Not Detected	95		50
75-27-4	Bromodichloromethane	Not Detected	95		50
75-25-2	Bromoform	Not Detected	95		50
74-83-9	Bromomethane	Not Detected	380	5	50
75-15-0	Carbon disulfide	Not Detected	95		50
56-23-5	Carbon tetrachloride	Not Detected	95		50
108-90-7	Chlorobenzene	Not Detected	95		50
75-00-3	Chloroethane	Not Detected	470		50
67-66-3	Chloroform	Not Detected	95		50
74-87-3	Chloromethane	Not Detected	470		50
56-59-2	cis-1,2-Dichloroethylene	Not Detected	95		50
10061-01-5	cis-1,3-Dichloropropylene	Not Detected	95		50
110-82-7	Cyclohexane	Not Detected	470		50

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Sample Number: AB73267 SS-02

Volatile Compounds

Analytical Method: 8260
Extraction Method: 5035

Date Tested: 05/06/2011
Extraction Date: 05/02/2011

Analyst: SJR
Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
124-48-1	Dibromochloromethane	Not Detected	95		50
74-95-3	Dibromomethane	Not Detected	95		50
75-71-8	Dichlorodifluoromethane	Not Detected	470		50
60-29-7	Diethyl ether	Not Detected	380		50
108-20-3	Diisopropyl Ether	Not Detected	470		50
100-41-4	Ethylbenzene	Not Detected	95		50
637-92-3	Ethyltertiarybutylether	Not Detected	470		50
67-72-1	Hexachloroethane	Not Detected	470		50
98-82-8	Isopropylbenzene	Not Detected	95		50
108383,106423	m & p - Xylene	Not Detected	190		50
74-88-4	Methyl iodide	Not Detected	95		50
75-09-2	Methylene chloride	Not Detected	190		50
1634-04-4	Methyltertiarybutylether	Not Detected	95		50
91-20-3	Naphthalene	Not Detected	470	X 7	50
104-51-8	n-Butylbenzene	Not Detected	95		50
103-65-1	n-Propylbenzene	Not Detected	95		50
95-47-6	o-Xylene	Not Detected	95		50
99-87-6	p-Isopropyl toluene	Not Detected	95		50
135-98-8	sec-Butylbenzene	Not Detected	95		50
100-42-5	Styrene	Not Detected	95		50
98-06-6	tert-Butylbenzene	Not Detected	95		50
75-65-0	tertiary Butyl Alcohol	Not Detected	4700		50
994-05-8	tertiary Amyl methyl ether	Not Detected	470		50
127-18-4	Tetrachloroethylene	Not Detected	95		50
109-99-9	Tetrahydrofuran	Not Detected	470		50
108-88-3	Toluene	Not Detected	95		50
156-60-5	trans-1,2-Dichloroethylene	Not Detected	95		50
10061-02-6	trans-1,3-Dichloropropylene	Not Detected	95		50
110-57-6	trans-1,4-Dichloro-2-butene	Not Detected	470	Z	50
79-01-6	Trichloroethylene	Not Detected	95		50
75-69-4	Trichlorofluoromethane	Not Detected	95		50
75-01-4	Vinyl chloride	Not Detected	95	Z	50

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Sample Number: AB73267 SS-02

CAS#	Analyte Name	Result	Unit	RL	Qualifier	Date Tested	Method	Analyst
57-12-5	Cyanide - Sediment	0.2	mg/Kg dry	0.1		05/11/2011	ASTM D 751	MB
	Cyanide-Extraction	Completed				05/10/2011	9013	MB
	Digest Mercury - Sediment	Completed				05/11/2011	7471	TS
7439-97-6	Mercury - Sediment	ND	mg/Kg dry	0.05		05/12/2011	7471	TS
7440-36-0	Antimony - Sediment	0.60	mg/Kg dry	0.3		05/21/2011	6020	KS
7440-38-2	Arsenic - Sediment	4.2	mg/Kg dry	0.5		05/18/2011	6020	KS
7440-39-3	Barium - Sediment	34	mg/Kg dry	1		05/18/2011	6020	KS
7440-41-7	Beryllium - Sediment	0.30	mg/Kg dry	0.2		05/19/2011	6020	KS
7440-43-9	Cadmium - Sediment	0.57	mg/Kg dry	0.2		05/18/2011	6020	KS
7440-47-3	Chromium - Sediment	13	mg/Kg dry	2		05/18/2011	6020	KS
7440-48-4	Cobalt - Sediment	3.9	mg/Kg dry	.5		05/18/2011	6020	KS
7440-50-8	Copper - Sediment	12	mg/Kg dry	1		05/18/2011	6020	KS
	Digest Antimony - Sediment	Completed				05/20/2011	3050	WN
	Digest Metals - Sediment	Completed				05/17/2011	3050	WN
7439-89-6	Iron - Sediment	16000	mg/Kg dry	50	D	05/25/2011	6010	WN
7439-92-1	Lead - Sediment	35	mg/Kg dry	1		05/18/2011	6020	KS
7439-96-5	Manganese - Sediment	280	mg/Kg dry	1		05/18/2011	6020	KS
7439-98-7	Molybdenum - Sediment	ND	mg/Kg dry	1		05/18/2011	6020	KS
7440-02-0	Nickel - Sediment	8.5	mg/Kg dry	1		05/18/2011	6020	KS
7782-49-2	Selenium - Sediment	0.35	mg/Kg dry	0.2		05/18/2011	6020	KS
7440-22-4	Silver - Sediment	0.33	mg/Kg dry	0.1		05/18/2011	6020	KS
7440-28-0	Thallium - Sediment	ND	mg/Kg dry	0.5		05/18/2011	6020	KS
7440-62-2	Vanadium - Sediment	17	mg/Kg dry	1		05/18/2011	6020	KS
7440-66-6	Zinc - Sediment	74	mg/Kg dry	1	7	05/18/2011	6020	KS
	% Total Solids	74.3	%	0.1		05/14/2011	2540B SM	KS
	Drying and Grinding - Sediment	COMPLETE				05/14/2011		KS
	Gel Permeation Cleanup-Pesticide/PCI	Completed				05/09/2011	3640	DT
	Gel Permeation Cleanup-SVOC-Analy	Completed				05/05/2011	3640	DT

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Sample Number: AB73268 SS-02-DUP

Pesticides and PCBs

Analytical Method: 8081,8082
Extraction Method: 3545

Date Tested: 05/12/2011
Extraction Date: 05/03/2011

Analyst: MF
Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
SURROGATE	#Decachlorobiphenyl#	59.9			
SURROGATE	#Tetrachloro-m-xylene#	76.2			
72-54-8	4,4'-DDD	Not Detected	27		1.0
72-55-9	4,4'-DDE	7.9	27	T	1.0
50-29-3	4,4'-DDT	8.8	27	T	1.0
319-84-6	a-BHC	Not Detected	13		1.0
5103-71-9	a-Chlordane	Not Detected	27		1.0
309-00-2	Aldrin	Not Detected	27		1.0
12674-11-2	Aroclor 1016	Not Detected	130		1.0
11104-28-2	Aroclor 1221	Not Detected	130		1.0
11141-16-5	Aroclor 1232	Not Detected	130		1.0
33469-21-9	Aroclor 1242	Not Detected	130		1.0
12672-29-6	Aroclor 1248	Not Detected	130		1.0
11097-69-1	Aroclor 1254	Not Detected	130		1.0
11096-82-5	Aroclor 1260	Not Detected	130		1.0
37324-23-5	Aroclor 1262	Not Detected	130		1.0
11100-14-4	Aroclor 1268	Not Detected	130		1.0
319-85-7	b-BHC	Not Detected	27		1.0
319-86-8	d-BHC	Not Detected	27		1.0
60-57-1	Dieldrin	Not Detected	27		1.0
959-98-8	Endosulfan I	Not Detected	27		1.0
33213-65-9	Endosulfan II	Not Detected	27		1.0
1031-07-8	Endosulfan sulfate	Not Detected	27		1.0
72-20-8	Endrin	Not Detected	27		1.0
7421-93-4	Endrin aldehyde	Not Detected	27		1.0
53494-70-5	Endrin ketone	Not Detected	27		1.0
58-89-9	g-BHC (Lindane)	Not Detected	27		1.0
5103-74-2	g-Chlordane	Not Detected	27		1.0
76-44-8	Heptachlor	Not Detected	27		1.0
1024-57-3	Heptachlor epoxide	Not Detected	27		1.0
87-82-1	Hexabromobenzene	Not Detected	130		1.0
72-43-5	Methoxychlor	Not Detected	66		1.0
2385-85-5	Mirex	Not Detected	66		1.0
59080-40-9	PBB (BP-6)	Not Detected	330		1.0
8001-35-2	Toxaphene	Not Detected	230		1.0

CAS# : Chemical Abstract Service Registry Number
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ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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Sample Number: AB73268 SS-02-DUP

Base Neutral Acid Compounds

Analytical Method: 8270
Extraction Method: 3545

Date Tested: 05/12/2011
Extraction Date: 05/05/2011

Analyst: SMH
Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
SURROGATE	#2-Fluorobiphenyl#	73.8			
SURROGATE	#2,4,6-Tribromophenol#	77.1			
SURROGATE	#2-Fluorophenol#	73.5			
SURROGATE	#Nitrobenzene - D5#	67.9			
SURROGATE	#Phenol - D6#	82.6			
SURROGATE	#p-Terphenyl-d14#	76.0			
120-82-1	1,2,4-Trichlorobenzene	Not Detected	530		2.0
95-95-4	2,4,5-Trichlorophenol	Not Detected	880		2.0
88-06-2	2,4,6-Trichlorophenol	Not Detected	880		2.0
120-83-2	2,4-Dichlorophenol	Not Detected	880		2.0
105-67-9	2,4-Dimethylphenol	Not Detected	880		2.0
51-28-5	2,4-Dinitrophenol	Not Detected	4500	Z	2.0
121-14-2	2,4-Dinitrotoluene	Not Detected	660		2.0
606-20-2	2,6-Dinitrotoluene	Not Detected	660		2.0
91-58-7	2-Chloronaphthalene	Not Detected	530		2.0
95-57-8	2-Chlorophenol	Not Detected	880		2.0
534-52-1	2-Methyl-4,6-dinitrophenol	Not Detected	4500	Z	2.0
91-57-6	2-Methylnaphthalene	Not Detected	660		2.0
95-48-7	2-Methylphenol (o-Cresol)	Not Detected	880		2.0
88-74-4	2-Nitroaniline	Not Detected	1300		2.0
88-75-5	2-Nitrophenol	Not Detected	880		2.0
108394,106445	3 & 4-Methylphenol	Not Detected	1800		2.0
99-09-2	3-Nitroaniline	Not Detected	1300		2.0
101-55-3	4-Bromophenyl phenyl ether	Not Detected	530		2.0
59-50-7	4-Chloro-3-methyl-phenol	Not Detected	530		2.0
7005-72-3	4-Chlorodiphenylether	Not Detected	270		2.0
100-01-6	4-Nitroaniline	Not Detected	1300		2.0
100-02-7	4-Nitrophenol	Not Detected	4500	Z	2.0
83-32-9	Acenaphthene	Not Detected	270		2.0
208-96-8	Acenaphthylene	Not Detected	270		2.0
120-12-7	Anthracene	Not Detected	270		2.0
103-33-3	Azobenzene	Not Detected	530		2.0
56-55-3	Benzo[a]anthracene	Not Detected	270		2.0
50-32-8	Benzo[a]pyrene	Not Detected	530		2.0
205-99-2	Benzo[b]fluoranthene	Not Detected	530		2.0
191-24-2	Benzo[g,h,i]perylene	Not Detected	530		2.0
207-08-9	Benzo[k]fluoranthene	Not Detected	530		2.0
100-51-6	Benzyl Alcohol	Not Detected	6600		2.0
111-91-1	Bis(2-chloroethoxy)methane	Not Detected	530		2.0
111-44-4	Bis(2-chloroethyl)ether	Not Detected	270		2.0

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Sample Number: AB73268 SS-02-DUP

Base Neutral Acid Compounds

Analytical Method: 8270 Date Tested: 05/12/2011 Analyst: SMH
Extraction Method: 3545 Extraction Date: 05/05/2011 Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
108-60-1	Bis(2-chloroisopropyl)ether	Not Detected	270		2.0
117-81-7	Bis(2-ethylhexyl)phthalate	Not Detected	660		2.0
85-68-7	Butyl benzyl phthalate	Not Detected	660		2.0
86-74-8	Carbazole	Not Detected	660		2.0
218-01-9	Chrysene	Not Detected	270		2.0
53-70-3	Dibenz[a,h]anthracene	Not Detected	530		2.0
132-64-9	Dibenzofuran	Not Detected	660		2.0
84-66-2	Diethylphthalate	Not Detected	660		2.0
131-11-3	Dimethyl phthalate	Not Detected	660		2.0
84-74-2	Di-n-butyl phthalate	Not Detected	660		2.0
117-84-0	Di-n-octyl phthalate	Not Detected	660		2.0
206-44-0	Fluoranthene	Not Detected	270		2.0
86-73-7	Fluorene	Not Detected	270		2.0
118-74-1	Hexachlorobenzene	Not Detected	530		2.0
87-68-3	Hexachlorobutadiene	Not Detected	270	Z	2.0
77-47-4	Hexachlorocyclopentadiene	Not Detected	2700	Z	2.0
67-72-1	Hexachloroethane	Not Detected	270		2.0
193-39-5	Indeno(1,2,3-c,d)pyrene	Not Detected	530		2.0
78-59-1	Isophorone	Not Detected	270		2.0
91-20-3	Naphthalene	Not Detected	270		2.0
98-95-3	Nitrobenzene	Not Detected	530		2.0
67-75-9	N-Nitrosodimethylamine	Not Detected	660		2.0
621-64-7	N-Nitrosodi-n-propylamine	Not Detected	530		2.0
86-30-6	N-Nitrosodiphenylamine	Not Detected	530		2.0
87-86-5	Pentachlorophenol	Not Detected	4500	Z=800	2.0
85-01-8	Phenanthrene	Not Detected	270		2.0
108-95-2	Phenol	Not Detected	880		2.0
129-00-0	Pyrene	Not Detected	270		2.0

RLs raised due to matrix.

Volatile Compounds

Analytical Method: 8260 Date Tested: 05/06/2011 Analyst: SJR
Extraction Method: 5035 Extraction Date: 05/02/2011 Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
	##Weight of sample(grams)	7.95			
SURROGATE	#Bromofluorobenzene#	116			
SURROGATE	#Dibromofluoromethane#	133			
SURROGATE	#Toluene-d8#	127			

CAS# : Chemical Abstract Service Registry Number
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ND : Not Detected

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Sample Number: AB73268 SS-02-DUP

Volatile Compounds

Analytical Method: 8260 Date Tested: 05/06/2011 Analyst: SJR
Extraction Method: 5035 Extraction Date: 05/02/2011 Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
630-20-6	1,1,1,2-Tetrachloroethane	Not Detected	100		50
71-55-6	1,1,1-Trichloroethane	Not Detected	100		50
79-34-5	1,1,2,2-Tetrachloroethane	Not Detected	100		50
79-00-5	1,1,2-Trichloroethane	Not Detected	100		50
75-34-3	1,1-Dichloroethane	Not Detected	100		50
75-35-4	1,1-Dichloroethylene	Not Detected	100		50
87-61-6	1,2,3-Trichlorobenzene	Not Detected	500	7	50
96-18-4	1,2,3-Trichloropropane	Not Detected	100		50
526-73-8	1,2,3-Trimethylbenzene	Not Detected	100		50
120-82-1	1,2,4-Trichlorobenzene	Not Detected	500		50
95-63-6	1,2,4-Trimethylbenzene	Not Detected	100		50
96-12-8	1,2-Dibromo-3-chloropropane	Not Detected	500		50
106-93-4	1,2-Dibromoethane	Not Detected	100	Z	50
95-50-1	1,2-Dichlorobenzene	Not Detected	100		50
107-06-2	1,2-Dichloroethane	Not Detected	100		50
78-87-5	1,2-Dichloropropane	Not Detected	100		50
108-67-8	1,3,5-Trimethylbenzene	Not Detected	100		50
541-73-1	1,3-Dichlorobenzene	Not Detected	100		50
106-46-7	1,4-Dichlorobenzene	Not Detected	100		50
78-93-3	2-Butanone (MEK)	Not Detected	500		50
591-78-6	2-Hexanone	Not Detected	500		50
91-57-6	2-Methylnaphthalene	Not Detected	500	X7	50
67-64-1	2-Propanone (acetone)	Not Detected	2000	7	50
108-10-1	4 Methyl-2-pentanone (MIBK)	Not Detected	500		50
107-13-1	Acrylonitrile	Not Detected	500	Z	50
71-43-2	Benzene	Not Detected	100		50
108-86-1	Bromobenzene	Not Detected	100		50
74-97-5	Bromochloromethane	Not Detected	100		50
75-27-4	Bromodichloromethane	Not Detected	100		50
75-25-2	Bromoform	Not Detected	100		50
74-83-9	Bromomethane	Not Detected	400	5	50
75-15-0	Carbon disulfide	Not Detected	100		50
56-23-5	Carbon tetrachloride	Not Detected	100		50
108-90-7	Chlorobenzene	Not Detected	100		50
75-00-3	Chloroethane	Not Detected	500		50
67-66-3	Chloroform	Not Detected	100		50
74-87-3	Chloromethane	Not Detected	500		50
156-59-2	cis-1,2-Dichloroethylene	Not Detected	100		50
10061-01-5	cis-1,3-Dichloropropylene	Not Detected	100		50
110-82-7	Cyclohexane	Not Detected	500		50

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Sample Number: AB73268 SS-02-DUP

Volatile Compounds

Analytical Method: 8260 Date Tested: 05/06/2011 Analyst: SJR
 Extraction Method: 5035 Extraction Date: 05/02/2011 Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
124-48-1	Dibromochloromethane	Not Detected	100		50
74-95-3	Dibromomethane	Not Detected	100		50
75-71-8	Dichlorodifluoromethane	Not Detected	500		50
60-29-7	Diethyl ether	Not Detected	400		50
108-20-3	Diisopropyl Ether	Not Detected	500		50
100-41-4	Ethylbenzene	Not Detected	100		50
637-92-3	Ethyltertiarybutylether	Not Detected	500		50
67-72-1	Hexachloroethane	Not Detected	500		50
98-82-8	Isopropylbenzene	Not Detected	100		50
108383,106423	m & p - Xylene	Not Detected	200		50
74-88-4	Methyl iodide	Not Detected	100		50
75-09-2	Methylene chloride	Not Detected	200		50
1634-04-4	Methyltertiarybutylether	Not Detected	100		50
91-20-3	Naphthalene	Not Detected	500	X 7	50
104-51-8	n-Butylbenzene	Not Detected	100		50
103-65-1	n-Propylbenzene	Not Detected	100		50
95-47-6	o-Xylene	Not Detected	100		50
99-87-6	p-Isopropyl toluene	Not Detected	100		50
135-98-8	sec-Butylbenzene	Not Detected	100		50
100-42-5	Styrene	Not Detected	100		50
98-06-6	tert-Butylbenzene	Not Detected	100		50
75-65-0	tertiary Butyl Alcohol	Not Detected	5000		50
994-05-8	tertiary Amyl methyl ether	Not Detected	500		50
127-18-4	Tetrachloroethylene	Not Detected	100		50
109-99-9	Tetrahydrofuran	Not Detected	500		50
108-88-3	Toluene	Not Detected	100		50
156-60-5	trans-1,2-Dichloroethylene	Not Detected	100		50
10061-02-6	trans-1,3-Dichloropropylene	Not Detected	100		50
110-57-6	trans-1,4-Dichloro-2-butene	Not Detected	500	Z	50
79-01-6	Trichloroethylene	Not Detected	100		50
75-69-4	Trichlorofluoromethane	Not Detected	100		50
75-01-4	Vinyl chloride	Not Detected	100	Z	50

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Sample Number: AB73268 SS-02-DUP

CAS#	Analyte Name	Result	Unit	RL	Qualifier	Date Tested	Method	Analyst
57-12-5	Cyanide - Sediment	0.2	mg/Kg dry	0.1		05/11/2011	ASTM D 751	MB
	Cyanide-Extraction	Completed				05/10/2011	9013	MB
	Digest Mercury - Sediment	Completed				05/11/2011	7471	TS
7439-97-6	Mercury - Sediment	ND	mg/Kg dry	0.05		05/12/2011	7471	TS
7440-36-0	Antimony - Sediment	0.39	mg/Kg dry	0.3		05/21/2011	6020	KS
7440-38-2	Arsenic - Sediment	3.8	mg/Kg dry	0.5		05/18/2011	6020	KS
7440-39-3	Barium - Sediment	34	mg/Kg dry	1		05/18/2011	6020	KS
7440-41-7	Beryllium - Sediment	0.30	mg/Kg dry	0.2		05/18/2011	6020	KS
7440-43-9	Cadmium - Sediment	0.54	mg/Kg dry	0.2		05/18/2011	6020	KS
7440-47-3	Chromium - Sediment	14	mg/Kg dry	2		05/18/2011	6020	KS
7440-48-4	Cobalt - Sediment	3.3	mg/Kg dry	.5		05/18/2011	6020	KS
7440-50-8	Copper - Sediment	13	mg/Kg dry	1		05/18/2011	6020	KS
	Digest Antimony - Sediment	Completed				05/20/2011	3050	WN
	Digest Metals - Sediment	Completed				05/17/2011	3050	WN
7439-89-6	Iron - Sediment	16000	mg/Kg dry	50	D	05/25/2011	6010	WN
7439-92-1	Lead - Sediment	42	mg/Kg dry	1		05/18/2011	6020	KS
7439-96-5	Manganese - Sediment	210	mg/Kg dry	1		05/18/2011	6020	KS
7439-98-7	Molybdenum - Sediment	ND	mg/Kg dry	1		05/18/2011	6020	KS
7440-02-0	Nickel - Sediment	8.9	mg/Kg dry	1		05/18/2011	6020	KS
7782-49-2	Selenium - Sediment	0.36	mg/Kg dry	0.2		05/18/2011	6020	KS
7440-22-4	Silver - Sediment	0.39	mg/Kg dry	0.1		05/18/2011	6020	KS
7440-28-0	Thallium - Sediment	ND	mg/Kg dry	0.5		05/18/2011	6020	KS
7440-62-2	Vanadium - Sediment	15	mg/Kg dry	1		05/18/2011	6020	KS
7440-66-6	Zinc - Sediment	75	mg/Kg dry	1		05/18/2011	6020	KS
	% Total Solids	75.3	%	0.1		05/14/2011	2540B SM	KS
	Drying and Grinding - Sediment	COMPLETE				05/14/2011		KS
	Gel Permeation Cleanup-Pesticide/PCJ	Completed				05/09/2011	3640	DT
	Gel Permeation Cleanup-SVOC Analy	Completed				05/05/2011	3640	DT

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Sample Number: AB73269 SS-03

Pesticides and PCBs

Analytical Method: 8081,8082
 Extraction Method: 3545

Date Tested: 05/11/2011
 Extraction Date: 05/06/2011

Analyst: MF
 Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
SURROGATE	#Decachlorobiphenyl#	63.9			
SURROGATE	#Tetrachloro-m-xylene#	87.5			
72-54-8	4,4'-DDD	Not Detected	25		1.0
72-55-9	4,4'-DDE	Not Detected	25		1.0
50-29-3	4,4'-DDT	Not Detected	25		1.0
319-84-6	a-BHC	Not Detected	13		1.0
5103-71-9	a-Chlordane	Not Detected	25		1.0
309-00-2	Aldrin	Not Detected	25		1.0
12674-11-2	Aroclor 1016	Not Detected	130		1.0
11104-28-2	Aroclor 1221	Not Detected	130		1.0
11141-16-5	Aroclor 1232	Not Detected	130		1.0
53469-21-9	Aroclor 1242	Not Detected	130		1.0
12672-29-6	Aroclor 1248	Not Detected	130		1.0
11097-69-1	Aroclor 1254	Not Detected	130		1.0
11096-82-5	Aroclor 1260	Not Detected	130		1.0
57324-23-5	Aroclor 1262	Not Detected	130		1.0
11100-14-4	Aroclor 1268	Not Detected	130		1.0
319-85-7	b-BHC	Not Detected	25		1.0
319-86-8	d-BHC	Not Detected	25		1.0
60-57-1	Dieldrin	Not Detected	25		1.0
959-98-8	Endosulfan I	Not Detected	25		1.0
33213-65-9	Endosulfan II	Not Detected	25		1.0
1031-07-8	Endosulfan sulfate	Not Detected	25		1.0
72-20-8	Endrin	Not Detected	25		1.0
7421-93-4	Endrin aldehyde	Not Detected	25		1.0
53494-70-5	Endrin ketone	Not Detected	25		1.0
58-89-9	g-BHC (Lindane)	Not Detected	25		1.0
5103-74-2	g-Chlordane	Not Detected	25		1.0
76-44-8	Heptachlor	Not Detected	25		1.0
1024-57-3	Heptachlor epoxide	Not Detected	25		1.0
87-82-1	Hexabromobenzene	Not Detected	130		1.0
72-43-5	Methoxychlor	Not Detected	63		1.0
2385-85-5	Mirex	Not Detected	63		1.0
59080-40-9	PBB (BP-6)	Not Detected	310		1.0
8001-35-2	Toxaphene	Not Detected	210		1.0

CAS# : Chemical Abstract Service Registry Number
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 ug / Kg : microgram / kilogram (ppb)
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 Organic Unit Mgr: Carol Smith
 Systems Mgmt Unit: George Krisztian



MICHIGAN DEPARTMENT OF NATURAL RESOURCES AND ENVIRONMENT
ENVIRONMENTAL LABORATORY

P.O. Box 30270
Lansing, MI 48909
TEL: (517) 335-9800
FAX: (517) 335-9600

Sample Number: AB73269 SS-03

Base Neutral Acid Compounds

Analytical Method: 8270 Date Tested: 05/15/2011 Analyst: SMH
Extraction Method: 3545 Extraction Date: 05/09/2011 Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
SURROGATE	#2-Fluorobiphenyl#	53.2			
SURROGATE	#2,4,6-Tribromophenol#	64.0			
SURROGATE	#2-Fluorophenol#	53.6			
SURROGATE	#Nitrobenzene - D5#	51.5			
SURROGATE	#Phenol - D6#	61.0			
SURROGATE	#p-Terphenyl-d14#	68.3			
120-82-1	1,2,4-Trichlorobenzene	Not Detected	500		2.0
95-95-4	2,4,5-Trichlorophenol	Not Detected	830		2.0
88-06-2	2,4,6-Trichlorophenol	Not Detected	830		2.0
120-83-2	2,4-Dichlorophenol	Not Detected	830		2.0
105-67-9	2,4-Dimethylphenol	Not Detected	830		2.0
51-28-5	2,4-Dinitrophenol	Not Detected	4300	Z	2.0
121-14-2	2,4-Dinitrotoluene	Not Detected	630		2.0
606-20-2	2,6-Dinitrotoluene	Not Detected	630		2.0
91-58-7	2-Chloronaphthalene	Not Detected	500		2.0
95-57-8	2-Chlorophenol	Not Detected	830		2.0
534-52-1	2-Methyl-4,6-dinitrophenol	Not Detected	4300	Z	2.0
91-57-6	2-Methylnaphthalene	Not Detected	630		2.0
95-48-7	2-Methylphenol (o-Cresol)	Not Detected	830		2.0
88-74-4	2-Nitroaniline	Not Detected	1300		2.0
88-75-5	2-Nitrophenol	Not Detected	830		2.0
108394,106445	3 & 4-Methylphenol	Not Detected	1700		2.0
99-09-2	3-Nitroaniline	Not Detected	1300		2.0
101-55-3	4-Bromophenyl phenyl ether	Not Detected	500		2.0
59-50-7	4-Chloro-3-methyl-phenol	Not Detected	500		2.0
7005-72-3	4-Chlorodiphenylether	Not Detected	250		2.0
100-01-6	4-Nitroaniline	Not Detected	1300		2.0
100-02-7	4-Nitrophenol	Not Detected	4300	Z	2.0
83-32-9	Acenaphthene	Not Detected	250		2.0
208-96-8	Acenaphthylene	Not Detected	250		2.0
120-12-7	Anthracene	Not Detected	250		2.0
103-33-3	Azobenzene	Not Detected	500		2.0
56-55-3	Benzo[a]anthracene	Not Detected	250		2.0
50-32-8	Benzo[a]pyrene	Not Detected	500		2.0
205-99-2	Benzo[b]fluoranthene	Not Detected	500		2.0
191-24-2	Benzo[g,h,i]perylene	Not Detected	500		2.0
207-08-9	Benzo[k]fluoranthene	Not Detected	500		2.0
100-51-6	Benzyl Alcohol	Not Detected	6300		2.0
111-91-1	Bis(2-chloroethoxy)methane	Not Detected	500		2.0
111-44-4	Bis(2-chloroethyl)ether	Not Detected	250		2.0

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug/L : microgram / liter (ppb)
mg/L : milligram / liter (ppm)
ug/Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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Sample Number: AB73269 SS-03

Base Neutral Acid Compounds

Analytical Method: 8270 Date Tested: 05/15/2011 Analyst: SMH
Extraction Method: 3545 Extraction Date: 05/09/2011 Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
108-60-1	Bis(2-chloroisopropyl)ether	Not Detected	250		2.0
117-81-7	Bis(2-ethylhexyl)phthalate	Not Detected	630		2.0
85-68-7	Butyl benzyl phthalate	Not Detected	630		2.0
86-74-8	Carbazole	Not Detected	630		2.0
218-01-9	Chrysene	Not Detected	250		2.0
53-70-3	Dibenz[a,h]anthracene	Not Detected	500		2.0
132-64-9	Dibenzofuran	Not Detected	630		2.0
84-66-2	Diethylphthalate	Not Detected	630		2.0
131-11-3	Dimethyl phthalate	Not Detected	630		2.0
84-74-2	Di-n-butyl phthalate	Not Detected	630		2.0
117-84-0	Di-n-octyl phthalate	Not Detected	630		2.0
206-44-0	Fluoranthene	Not Detected	250		2.0
86-73-7	Fluorene	Not Detected	250		2.0
118-74-1	Hexachlorobenzene	Not Detected	500		2.0
87-68-3	Hexachlorobutadiene	Not Detected	250	Z	2.0
77-47-4	Hexachlorocyclopentadiene	Not Detected	2500	Z	2.0
67-72-1	Hexachloroethane	Not Detected	250		2.0
193-39-5	Indeno(1,2,3-c,d)pyrene	Not Detected	500		2.0
78-59-1	Isophorone	Not Detected	250		2.0
91-20-3	Naphthalene	Not Detected	250		2.0
98-95-5	Nitrobenzene	Not Detected	500		2.0
67-75-9	N-Nitrosodimethylamine	Not Detected	630		2.0
621-64-7	N-Nitrosodi-n-propylamine	Not Detected	500		2.0
86-30-6	N-Nitrosodiphenylamine	Not Detected	500		2.0
87-86-5	Pentachlorophenol	Not Detected	4300	Z=800	2.0
85-01-8	Phenanthrene	Not Detected	250		2.0
108-95-2	Phenol	Not Detected	830		2.0
129-00-0	Pyrene	Not Detected	250		2.0

RLs raised due to matrix.

Volatile Compounds

Analytical Method: 8260 Date Tested: 05/06/2011 Analyst: SJR
Extraction Method: 5035 Extraction Date: 05/02/2011 Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
	##Weight of sample(grams)	9.55			
SURROGATE	#Bromofluorobenzene#	134			
SURROGATE	#Dibromofluoromethane#	155			
SURROGATE	#Toluene-d8#	153			

CAS# : Chemical-Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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Sample Number: AB73269 SS-03

Volatile Compounds

Analytical Method: 8260 Date Tested: 05/06/2011 Analyst: SJR
Extraction Method: 5035 Extraction Date: 05/02/2011 Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
630-20-6	1,1,1,2-Tetrachloroethane	Not Detected	78		50
71-55-6	1,1,1-Trichloroethane	Not Detected	78		50
79-34-5	1,1,2,2-Tetrachloroethane	Not Detected	78		50
79-00-5	1,1,2-Trichloroethane	Not Detected	78		50
75-34-3	1,1-Dichloroethane	Not Detected	78		50
75-35-4	1,1-Dichloroethylene	Not Detected	78		50
87-61-6	1,2,3-Trichlorobenzene	Not Detected	390	7	50
96-18-4	1,2,3-Trichloropropane	Not Detected	78		50
526-73-8	1,2,3-Trimethylbenzene	Not Detected	78		50
120-82-1	1,2,4-Trichlorobenzene	Not Detected	390		50
95-63-6	1,2,4-Trimethylbenzene	Not Detected	78		50
96-12-8	1,2-Dibromo-3-chloropropane	Not Detected	390		50
106-93-4	1,2-Dibromoethane	Not Detected	78	Z	50
95-50-1	1,2-Dichlorobenzene	Not Detected	78		50
107-06-2	1,2-Dichloroethane	Not Detected	78		50
78-87-5	1,2-Dichloropropane	Not Detected	78		50
108-67-8	1,3,5-Trimethylbenzene	Not Detected	78		50
541-73-1	1,3-Dichlorobenzene	Not Detected	78		50
106-46-7	1,4-Dichlorobenzene	Not Detected	78		50
78-93-3	2-Butanone (MEK)	Not Detected	390		50
591-78-6	2-Hexanone	Not Detected	390		50
91-57-6	2-Methylnaphthalene	Not Detected	390	X7	50
67-64-1	2-Propanone (acetone)	Not Detected	1600	7	50
108-10-1	4-Methyl-2-pentanone (MIBK)	Not Detected	390		50
107-13-1	Acrylonitrile	Not Detected	390	Z	50
71-43-2	Benzene	Not Detected	78		50
108-86-1	Bromobenzene	Not Detected	78		50
74-97-5	Bromochloromethane	Not Detected	78		50
75-27-4	Bromodichloromethane	Not Detected	78		50
75-25-2	Bromoform	Not Detected	78		50
74-83-9	Bromomethane	Not Detected	310	5	50
75-15-0	Carbon disulfide	Not Detected	78		50
56-23-5	Carbon tetrachloride	Not Detected	78		50
108-90-7	Chlorobenzene	Not Detected	78		50
75-00-3	Chloroethane	Not Detected	390		50
67-66-3	Chloroform	Not Detected	78		50
74-87-3	Chloromethane	Not Detected	390		50
156-59-2	cis-1,2-Dichloroethylene	Not Detected	78		50
10061-01-5	cis-1,3-Dichloropropylene	Not Detected	78		50
110-82-7	Cyclohexane	Not Detected	390		50

CAS# : Chemical Abstract Service Registry Number
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Sample Number: AB73269 SS-03

Volatile Compounds

Analytical Method: 8260
Extraction Method: 5035

Date Tested: 05/06/2011
Extraction Date: 05/02/2011

Analyst: SJR
Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
124-48-1	Dibromochloromethane	Not Detected	78		50
74-95-3	Dibromomethane	Not Detected	78		50
75-71-8	Dichlorodifluoromethane	Not Detected	390		50
60-29-7	Diethyl ether	Not Detected	310		50
108-20-3	Diisopropyl Ether	Not Detected	390		50
100-41-4	Ethylbenzene	Not Detected	78		50
637-92-3	Ethyltertiarybutylether	Not Detected	390		50
67-72-1	Hexachloroethane	Not Detected	390		50
98-82-8	Isopropylbenzene	Not Detected	78		50
108383,106423	m & p - Xylene	Not Detected	160		50
74-88-4	Methyl iodide	Not Detected	78		50
75-09-2	Methylene chloride	Not Detected	160		50
1634-04-4	Methyltertiarybutylether	Not Detected	78		50
91-20-3	Naphthalene	Not Detected	390	X 7	50
104-51-8	n-Butylbenzene	Not Detected	78		50
103-65-1	n-Propylbenzene	Not Detected	78		50
95-47-6	o-Xylene	Not Detected	78		50
99-87-6	p-Isopropyl toluene	Not Detected	78		50
135-98-8	sec-Butylbenzene	Not Detected	78		50
100-42-5	Styrene	Not Detected	78		50
98-06-6	tert-Butylbenzene	Not Detected	78		50
75-65-0	tertiary Butyl Alcohol	Not Detected	3900		50
994-05-8	tertiary Amyl methyl ether	Not Detected	390		50
127-18-4	Tetrachloroethylene	Not Detected	78		50
109-99-9	Tetrahydrofuran	Not Detected	390		50
108-88-3	Toluene	Not Detected	78		50
156-60-5	trans-1,2-Dichloroethylene	Not Detected	78		50
10061-02-6	trans-1,3-Dichloropropylene	Not Detected	78		50
110-57-6	trans-1,4-Dichloro-2-butene	Not Detected	390	Z	50
79-01-6	Trichloroethylene	Not Detected	78		50
75-69-4	Trichlorofluoromethane	Not Detected	78		50
75-01-4	Vinyl chloride	Not Detected	78	Z	50

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mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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Sample Number: AB73269 SS-03

CAS#	Analyte Name	Result	Unit	RL	Qualifier	Date Tested	Method	Analyst
57-12-5	Cyanide - Sediment	ND	mg/Kg dry	0.1		05/11/2011	ASTMD 751	MB
	Cyanide Extraction	Completed				05/10/2011	9013	MB
	Digest Mercury - Sediment	Completed				05/11/2011	7471	TS
7439-97-6	Mercury - Sediment	ND	mg/Kg dry	0.05		05/12/2011	7471	TS
7440-36-0	Antimony - Sediment	ND	mg/Kg dry	0.3		05/21/2011	6020	KS
7440-38-2	Arsenic - Sediment	3.0	mg/Kg dry	0.5		05/18/2011	6020	KS
7440-39-3	Barium - Sediment	31	mg/Kg dry	1		05/18/2011	6020	KS
7440-41-7	Beryllium - Sediment	0.31	mg/Kg dry	0.2		05/18/2011	6020	KS
7440-43-9	Cadmium - Sediment	ND	mg/Kg dry	0.2		05/18/2011	6020	KS
7440-47-3	Chromium - Sediment	1.1	mg/Kg dry	2		05/18/2011	6020	KS
7440-48-4	Cobalt - Sediment	3.2	mg/Kg dry	.5		05/18/2011	6020	KS
7440-50-8	Copper - Sediment	6.8	mg/Kg dry	1		05/18/2011	6020	KS
	Digest Antimony - Sediment	Completed				05/20/2011	3050	WN
	Digest Metals - Sediment	Completed				05/17/2011	3050	WN
7439-89-6	Iron - Sediment	11000	mg/Kg dry	50	D	05/25/2011	6010	WN
7439-92-1	Lead - Sediment	12	mg/Kg dry	1		05/18/2011	6020	KS
7439-96-5	Manganese - Sediment	270	mg/Kg dry	1	4	05/18/2011	6020	KS
7439-98-7	Molybdenum - Sediment	ND	mg/Kg dry	1		05/18/2011	6020	KS
7440-02-0	Nickel - Sediment	6.7	mg/Kg dry	1		05/18/2011	6020	KS
7782-49-2	Selenium - Sediment	0.34	mg/Kg dry	0.2		05/18/2011	6020	KS
7440-22-4	Silver - Sediment	ND	mg/Kg dry	0.1		05/18/2011	6020	KS
7440-28-0	Thallium - Sediment	ND	mg/Kg dry	0.5		05/18/2011	6020	KS
7440-62-2	Vanadium - Sediment	14	mg/Kg dry	1		05/18/2011	6020	KS
7440-66-6	Zinc - Sediment	26	mg/Kg dry	1		05/18/2011	6020	KS
	% Total Solids	80.0	%	0.1		05/14/2011	2540B SM	KS
	Drying and Grinding - Sediment	COMPLETE				05/14/2011		KS
	Gel Permeation Cleanup-Pesticide/PC	Completed				05/10/2011	3640	DT
	Gel Permeation Cleanup-SVOC Analy	Completed				05/11/2011	3640	DT

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Sample Number: AB73270 SS-03-MS

Pesticides and PCBs

Analytical Method: 8081,8082
Extraction Method: 3545

Date Tested: 05/11/2011
Extraction Date: 05/06/2011

Analyst: MF
Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
SURROGATE	#Decachlorobiphenyl#	63.8			
SURROGATE	#Tetrachloro-m-xylene#	114			
72-54-8	4,4'-DDD	120	25		1.0
72-55-9	4,4'-DDE	140	25		1.0
50-29-3	4,4'-DDT	110	25		1.0
319-84-6	a-BHC	110	13		1.0
5103-71-9	a-Chlordane	120	25		1.0
309-00-2	Aldrin	110	25		1.0
12674-11-2	Aroclor 1016	Not Detected	130		1.0
11104-28-2	Aroclor 1221	Not Detected	130		1.0
11141-16-5	Aroclor 1232	Not Detected	130		1.0
53469-21-9	Aroclor 1242	Not Detected	130		1.0
12672-29-6	Aroclor 1248	Not Detected	130		1.0
11097-69-1	Aroclor 1254	Not Detected	130		1.0
11096-82-5	Aroclor 1260	Not Detected	130		1.0
97324-23-5	Aroclor 1262	Not Detected	130		1.0
11100-14-4	Aroclor 1268	Not Detected	130		1.0
319-85-7	b-BHC	120	25		1.0
319-86-8	d-BHC	120	25		1.0
60-57-1	Dieldrin	110	25		1.0
959-98-8	Endosulfan I	110	25		1.0
33213-65-9	Endosulfan II	110	25		1.0
1031-07-8	Endosulfan sulfate	120	25		1.0
72-20-8	Endrin	120	25		1.0
7421-93-4	Endrin aldehyde	97	25		1.0
53494-70-5	Endrin ketone	120	25		1.0
58-89-9	g-BHC (Lindane)	120	25		1.0
5103-74-2	g-Chlordane	120	25		1.0
76-44-8	Heptachlor	110	25		1.0
1024-57-3	Heptachlor epoxide	120	25		1.0
87-82-1	Hexabromobenzene	70	130	T	1.0
72-43-5	Methoxychlor	120	63		1.0
2385-85-5	Mirex	110	63		1.0
59080-40-9	PBB (BP-6)	Not Detected	310		1.0
8001-35-2	Toxaphene	Not Detected	210		1.0

Sample is a matrix spike.

Pesticides are spiked at 100 ug/Kg wet weight. BP-6 and Toxaphene not spiked.

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Sample Number: AB73270 SS-03-MS

Base Neutral Acid Compounds

Analytical Method: 8270
Extraction Method: 3545

Date Tested: 05/15/2011
Extraction Date: 05/09/2011

Analyst: SMH
Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
SURROGATE	#2-Fluorobiphenyl#	56.3			
SURROGATE	#2,4,6-Tribromophenol#	70.0			
SURROGATE	#2-Fluorophenol#	52.1			
SURROGATE	#Nitrobenzene - D5#	56.3			
SURROGATE	#Phenol - D6#	62.9			
SURROGATE	#p-Terphenyl-d14#	74.2			
120-82-1	1,2,4-Trichlorobenzene	2800	500		2.0
95-95-4	2,4,5-Trichlorophenol	6000	830		2.0
88-06-2	2,4,6-Trichlorophenol	6000	830		2.0
120-83-2	2,4-Dichlorophenol	6000	830		2.0
105-67-9	2,4-Dimethylphenol	5500	830		2.0
51-28-5	2,4-Dinitrophenol	4300	4300	Z	2.0
121-14-2	2,4-Dinitrotoluene	3200	630		2.0
606-20-2	2,6-Dinitrotoluene	3300	630		2.0
91-58-7	2-Chloronaphthalene	3400	500		2.0
95-57-8	2-Chlorophenol	5900	830		2.0
534-52-1	2-Methyl-4,6-dinitrophenol	5600	4300	Z	2.0
91-57-6	2-Methylnaphthalene	3100	630		2.0
95-48-7	2-Methylphenol (o-Cresol)	6200	830		2.0
88-74-4	2-Nitroaniline	3600	1300		2.0
88-75-5	2-Nitrophenol	6100	830		2.0
108394,106445	3 & 4-Methylphenol	5600	1700		2.0
99-09-2	3-Nitroaniline	230	1300	3.1	2.0
101-55-3	4-Bromophenyl phenyl ether	3700	500		2.0
59-50-7	4-Chloro-3-methylphenol	6100	500		2.0
7005-72-3	4-Chlorodiphenylether	3300	250		2.0
100-01-6	4-Nitroaniline	2400	1300		2.0
100-02-7	4-Nitrophenol	5300	4300	Z	2.0
83-32-9	Acenaphthene	3600	250		2.0
208-96-8	Acenaphthylene	3600	250		2.0
120-12-7	Anthracene	3700	250		2.0
103-33-3	Azobenzene	3700	500		2.0
56-55-3	Benzo[a]anthracene	3700	250		2.0
50-32-8	Benzo[a]pyrene	3600	500		2.0
205-99-2	Benzo[b]fluoranthene	3600	500		2.0
191-24-2	Benzo[g,h,i]perylene	2300	500		2.0
207-08-9	Benzo[k]fluoranthene	3700	500		2.0
100-51-6	Benzyl Alcohol	5600	6300	T	2.0
111-91-1	Bis(2-chloroethoxy)methane	3000	500		2.0
111-44-4	Bis(2-chloroethyl)ether	2800	250		2.0

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
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Laboratory Contacts
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Organic Unit Mgr: Carol Smith
Systems Mgmt Unit: George Krisztian



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ENVIRONMENTAL LABORATORY

P.O. Box 30270
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TEL: (517) 335-9800
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Sample Number: AB73270 SS-03-MS

Base Neutral Acid Compounds

Analytical Method: 8270
Extraction Method: 3545

Date Tested: 05/15/2011
Extraction Date: 05/09/2011

Analyst: SMH
Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
108-60-1	Bis(2-chloroisopropyl)ether	3000	250		2.0
117-81-7	Bis(2-ethylhexyl)phthalate	3800	630		2.0
85-68-7	Butyl benzyl phthalate	3900	630		2.0
86-74-8	Carbazole	3400	630		2.0
218-01-9	Chrysene	3900	250		2.0
53-70-3	Dibenz[a,h]anthracene	3200	500		2.0
132-64-9	Dibenzofuran	3300	630		2.0
84-66-2	Diethylphthalate	3500	630		2.0
151-11-3	Dimethyl phthalate	3600	630		2.0
84-74-2	Di-n-butyl phthalate	3800	630		2.0
117-84-0	Di-n-octyl phthalate	3600	630		2.0
206-44-0	Fluoranthene	3600	250		2.0
86-73-7	Fluorene	3500	250		2.0
118-74-1	Hexachlorobenzene	3500	500		2.0
87-68-3	Hexachlorobutadiene	3000	250	Z	2.0
77-47-4	Hexachlorocyclopentadiene	2100	2500	Z	2.0
67-72-1	Hexachloroethane	2800	250		2.0
193-39-5	Indeno(1,2,3-c,d)pyrene	3200	500		2.0
78-59-1	Isophorone	2800	250		2.0
91-20-3	Naphthalene	3000	250		2.0
98-95-3	Nitrobenzene	2900	500		2.0
67-75-9	N-Nitrosodimethylamine	3000	630		2.0
621-64-7	N-Nitrosodi-n-propylamine	3000	500		2.0
86-30-6	N-Nitrosodiphenylamine	3800	500		2.0
87-86-5	Pentachlorophenol	4600	4300	Z=800	2.0
85-01-8	Phenanthrene	3800	250		2.0
108-95-2	Phenol	6100	830		2.0
129-00-0	Pyrene	4000	250		2.0

Sample is a matrix spike.

Phenol compounds are spiked at 4000 ug/Kg wet weight.

Base Neutral compounds are spiked at 2000 ug/Kg wet weight.

RLs raised due to matrix.

Volatile Compounds

Analytical Method: 8260
Extraction Method: 5035

Date Tested: 05/06/2011
Extraction Date: 05/02/2011

Analyst: SJR
Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
	##Weight of sample(grams)	9.55			

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
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Sample Number: AB73270 SS-03-MS

Volatile Compounds

Analytical Method: 8260 Date Tested: 05/06/2011 Analyst: SJR
Extraction Method: 5035 Extraction Date: 05/02/2011 Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
SURROGATE	#Bromofluorobenzene#	130			
SURROGATE	#Dibromofluoromethane#	164			
SURROGATE	#Toluene-d8#	154			
630-20-6	1,1,1,2-Tetrachloroethane	3600	78		50
71-55-6	1,1,1-Trichloroethane	3900	78		50
79-34-5	1,1,2,2-Tetrachloroethane	4300	78		50
79-00-5	1,1,2-Trichloroethane	4200	78		50
75-34-3	1,1-Dichloroethane	4100	78		50
75-35-4	1,1-Dichloroethylene	3700	78		50
87-61-6	1,2,3-Trichlorobenzene	4200	390	7	50
96-18-4	1,2,3-Trichloropropane	4600	78		50
526-73-8	1,2,3-Trimethylbenzene	4300	78		50
120-82-1	1,2,4-Trichlorobenzene	4000	390		50
95-63-6	1,2,4-Trimethylbenzene	4200	78		50
96-12-8	1,2-Dibromo-3-chloropropane	4000	390		50
106-93-4	1,2-Dibromoethane	3800	78	Z	50
95-50-1	1,2-Dichlorobenzene	4000	78		50
107-06-2	1,2-Dichloroethane	4100	78		50
78-87-5	1,2-Dichloropropane	3900	78		50
108-67-8	1,3,5-Trimethylbenzene	4200	78		50
541-73-1	1,3-Dichlorobenzene	4200	78		50
106-46-7	1,4-Dichlorobenzene	3900	78		50
78-93-3	2-Butanone (MEK)	3300	390		50
591-78-6	2-Hexanone	3800	390		50
91-57-6	2-Methylnaphthalene	3600	390	X-7	50
67-64-1	2-Propanone (acetone)	2200	1600	7	50
108-10-1	4-Methyl-2-pentanone (MIBK)	4200	390		50
107-13-1	Acrylonitrile	4100	390	Z	50
71-43-2	Benzene	4000	78		50
108-86-1	Bromobenzene	4000	78		50
74-97-5	Bromochloromethane	4300	78		50
75-27-4	Bromodichloromethane	4000	78		50
75-25-2	Bromoform	3200	78		50
74-83-9	Bromomethane	3000	310	5	50
75-15-0	Carbon disulfide	3700	78		50
56-23-5	Carbon tetrachloride	3500	78		50
108-90-7	Chlorobenzene	3800	78		50
75-00-3	Chloroethane	3700	390		50
67-66-3	Chloroform	4100	78		50
74-87-3	Chloromethane	3900	390		50

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Sample Number: AB73270 SS-03-MS

Volatile Compounds

Analytical Method: 8260 Date Tested: 05/06/2011 Analyst: SJR
Extraction Method: 5035 Extraction Date: 05/02/2011 Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
156-59-2	cis-1,2-Dichloroethylene	4000	78		50
10061-01-5	cis-1,3-Dichloropropylene	3900	78		50
110-82-7	Cyclohexane	3900	390		50
124-48-1	Dibromochloromethane	3400	78		50
74-95-3	Dibromomethane	4000	78		50
75-71-8	Dichlorodifluoromethane	3700	390		50
60-29-7	Diethyl ether	3800	310		50
108-20-3	Diisopropyl Ether	4000	390		50
100-41-4	Ethylbenzene	3900	78		50
637-92-3	Ethyltertiarybutylether	4000	390		50
67-72-1	Hexachloroethane	3800	390		50
98-82-8	Isopropylbenzene	4200	78		50
108383,106423	m & p - Xylene	8000	160		50
74-88-4	Methyl iodide	3900	78		50
75-09-2	Methylene chloride	3700	160		50
1634-04-4	Methyltertiarybutylether	3700	78		50
91-20-3	Naphthalene	4000	390	X 7	50
104-51-8	n-Butylbenzene	4200	78		50
103-65-1	n-Propylbenzene	4300	78		50
95-47-6	o-Xylene	3900	78		50
99-87-6	p-Isopropyl toluene	4000	78		50
135-98-8	sec-Butylbenzene	4200	78		50
100-42-5	Styrene	4200	78		50
98-06-6	tert-Butylbenzene	4000	78		50
75-65-0	tertiary Butyl Alcohol	17000	3900		50
994-05-8	tertiary Amyl methyl ether	3800	390		50
127-18-4	Tetrachloroethylene	4100	78		50
109-99-9	Tetrahydrofuran	4100	390		50
108-88-3	Toluene	4000	78		50
156-60-5	trans-1,2-Dichloroethylene	4000	78		50
10061-02-6	trans-1,3-Dichloropropylene	3400	78		50
110-57-6	trans-1,4-Dichloro-2-butene	4000	390	Z	50
79-01-6	Trichloroethylene	4100	78		50
75-69-4	Trichlorofluoromethane	3400	78		50
75-01-4	Vinyl chloride	4000	78	Z	50

Sample is a matrix spike.

Compounds spiked at 3900 ug/Kg, except tertiary butyl alcohol spiked at 19500 ug/Kg & m&p-xylene spiked at 7800 ug/Kg.

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ug / Kg : microgram / kilogram (ppb)
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Sample Number: AB73270 SS-03-MS

CAS#	Analyte Name	Result	Unit	RL	Qualifier	Date Tested	Method	Analyst
57-12-5	Cyanide - Sediment	2	mg/Kg dry	0.1		05/11/2011	ASTM D 751	MB
	Cyanide-Extraction	Completed				05/10/2011	9013	MB
	Digest Mercury - Sediment	Completed				05/11/2011	7471	TS
7439-97-6	Mercury - Sediment	54	mg/Kg dry	0.05		05/12/2011	7471	TS
7440-36-0	Antimony - Sediment	47	mg/Kg dry	0.3		05/21/2011	6020	KS
7440-38-2	Arsenic - Sediment	100	mg/Kg dry	0.5		05/18/2011	6020	KS
7440-39-3	Barium - Sediment	140	mg/Kg dry	1		05/18/2011	6020	KS
7440-41-7	Beryllium - Sediment	110	mg/Kg dry	0.2		05/18/2011	6020	KS
7440-43-9	Cadmium - Sediment	11	mg/Kg dry	0.2		05/18/2011	6020	KS
7440-47-3	Chromium - Sediment	110	mg/Kg dry	2		05/18/2011	6020	KS
7440-48-4	Cobalt - Sediment	110	mg/Kg dry	.5		05/18/2011	6020	KS
7440-50-8	Copper - Sediment	110	mg/Kg dry	1		05/18/2011	6020	KS
	Digest Antimony - Sediment	Completed				05/20/2011	3050	WN
	Digest Metals - Sediment	Completed				05/17/2011	3050	WN
7439-89-6	Iron - Sediment	14000	mg/Kg dry	50	D	05/25/2011	6010	WN
7439-92-1	Lead - Sediment	120	mg/Kg dry	1		05/18/2011	6020	KS
7439-96-5	Manganese - Sediment	620	mg/Kg dry	1	4	05/18/2011	6020	KS
7439-98-7	Molybdenum - Sediment	110	mg/Kg dry	1		05/18/2011	6020	KS
7440-02-0	Nickel - Sediment	110	mg/Kg dry	1		05/18/2011	6020	KS
7782-49-2	Selenium - Sediment	95	mg/Kg dry	0.2		05/18/2011	6020	KS
7440-22-4	Silver - Sediment	9.5	mg/Kg dry	0.1		05/18/2011	6020	KS
7440-28-0	Thallium - Sediment	95	mg/Kg dry	0.5		05/18/2011	6020	KS
7440-62-2	Vanadium - Sediment	120	mg/Kg dry	1		05/18/2011	6020	KS
7440-66-6	Zinc - Sediment	130	mg/Kg dry	1		05/18/2011	6020	KS
	% Total Solids	80.0	%	0.1		05/14/2011	2540B SM	KS
	Drying and Grinding - Sediment	COMPLETE				05/14/2011		KS
	Gel Permeation Cleanup-Pesticide/PCI	Completed				05/10/2011	3640	DT
	Gel Permeation Cleanup-SVOC Analy	Completed				05/11/2011	3640	DT

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Sample Number: AB73271 SS-03-MSD

Pesticides and PCBs

Analytical Method: 8081,8082
Extraction Method: 3545

Date Tested: 05/11/2011
Extraction Date: 05/06/2011

Analyst: MF
Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
SURROGATE	#Decachlorobiphenyl#	63.0			
SURROGATE	#Tetrachloro-m-xylene#	129			
72-54-8	4,4'-DDD	120	25		1.0
72-55-9	4,4'-DDE	120	25		1.0
50-29-3	4,4'-DDT	110	25		1.0
319-84-6	a-BHC	110	13		1.0
5103-71-9	a-Chlordane	120	25		1.0
309-00-2	Aldrin	110	25		1.0
12674-11-2	Aroclor 1016	Not Detected	130		1.0
11104-28-2	Aroclor 1221	Not Detected	130		1.0
11141-16-5	Aroclor 1232	Not Detected	130		1.0
53469-21-9	Aroclor 1242	Not Detected	130		1.0
12672-29-6	Aroclor 1248	Not Detected	130		1.0
11097-69-1	Aroclor 1254	Not Detected	130		1.0
11096-82-5	Aroclor 1260	Not Detected	130		1.0
57324-23-5	Aroclor 1262	Not Detected	130		1.0
11100-14-4	Aroclor 1268	Not Detected	130		1.0
319-85-7	b-BHC	120	25		1.0
319-86-8	d-BHC	120	25		1.0
60-57-1	Dieldrin	110	25		1.0
959-98-8	Endosulfan I	110	25		1.0
33213-65-9	Endosulfan II	110	25		1.0
1031-07-8	Endosulfan sulfate	120	25		1.0
72-20-8	Endrin	120	25		1.0
7421-93-4	Endrin aldehyde	98	25		1.0
53494-70-5	Endrin ketone	120	25		1.0
58-89-9	g-BHC (Lindane)	120	25		1.0
5103-74-2	g-Chlordane	120	25		1.0
76-44-8	Heptachlor	110	25		1.0
1024-57-3	Heptachlor epoxide	120	25		1.0
87-82-1	Hexabromobenzene	77	130	T	1.0
72-43-5	Methoxychlor	120	63		1.0
2385-85-5	Mirex	110	63		1.0
59080-40-9	PBB (BP-6)	Not Detected	310		1.0
8001-35-2	Toxaphene	Not Detected	210		1.0

Sample is a matrix spike.

Pesticides are spiked at 100 ug/Kg wet weight. BP-6 and Toxaphene not spiked.

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Sample Number: AB73271 SS-03-MSD

Base Neutral Acid Compounds

Analytical Method: 8270 Date Tested: 05/15/2011 Analyst: SMH
Extraction Method: 3545 Extraction Date: 05/09/2011 Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
SURROGATE	#2-Fluorobiphenyl#	55.1			
SURROGATE	#2,4,6-Tribromophenol#	61.5			
SURROGATE	#2-Fluorophenol#	50.2			
SURROGATE	#Nitrobenzene - D5#	51.2			
SURROGATE	#Phenol - D6#	59.1			
SURROGATE	#p-Terphenyl-d14#	65.4			
120-82-1	1,2,4-Trichlorobenzene	2600	500		2.0
95-95-4	2,4,5-Trichlorophenol	6400	830		2.0
88-06-2	2,4,6-Trichlorophenol	6100	830		2.0
120-83-2	2,4-Dichlorophenol	5800	830		2.0
105-67-9	2,4-Dimethylphenol	5600	830		2.0
51-28-5	2,4-Dinitrophenol	4800	4300	Z	2.0
121-14-2	2,4-Dinitrotoluene	3100	630		2.0
606-20-2	2,6-Dinitrotoluene	3100	630		2.0
91-58-7	2-Chloronaphthalene	3000	500		2.0
95-57-8	2-Chlorophenol	5500	830		2.0
534-52-1	2-Methyl-4,6-dinitrophenol	5400	4300	Z	2.0
91-57-6	2-Methylnaphthalene	3000	630		2.0
95-48-7	2-Methylphenol (o-Cresol)	5900	830		2.0
88-74-4	2-Nitroaniline	3400	1300		2.0
88-75-5	2-Nitrophenol	5600	830		2.0
108394,106445	3 & 4-Methylphenol	5900	1700		2.0
99-09-2	3-Nitroaniline	400	1300	3-T	2.0
101-55-3	4-Bromophenyl phenyl ether	3300	500		2.0
59-50-7	4-Chloro-3-methyl-phenol	6200	500		2.0
7005-72-3	4-Chlorodiphenylether	3000	250		2.0
100-01-6	4-Nitroaniline	1500	1300		2.0
100-02-7	4-Nitrophenol	5100	4300	Z	2.0
83-32-9	Acenaphthene	3200	250		2.0
208-96-8	Acenaphthylene	3300	250		2.0
120-12-7	Anthracene	3300	250		2.0
103-33-3	Azobenzene	3300	500		2.0
56-55-3	Benzo[a]anthracene	3300	250		2.0
50-32-8	Benzo[a]pyrene	3200	500		2.0
205-99-2	Benzo[b]fluoranthene	3200	500		2.0
191-24-2	Benzo[g,h,i]perylene	2200	500		2.0
207-08-9	Benzo[k]fluoranthene	3300	500		2.0
100-51-6	Benzyl Alcohol	5300	6300	T	2.0
111-91-1	Bis(2-chloroethoxy)methane	2700	500		2.0
111-44-4	Bis(2-chloroethyl)ether	2500	250		2.0

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Sample Number: AB73271 SS-03-MSD

Base Neutral Acid Compounds

Analytical Method: 8270 Date Tested: 05/15/2011 Analyst: SMH
Extraction Method: 3545 Extraction Date: 05/09/2011 Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
108-60-1	Bis(2-chloroisopropyl)ether	2800	250		2.0
117-81-7	Bis(2-ethylhexyl)phthalate	3300	630		2.0
85-68-7	Butyl benzyl phthalate	3500	630		2.0
86-74-8	Carbazole	3100	630		2.0
218-01-9	Chrysene	3500	250		2.0
53-70-3	Dibenz[a,h]anthracene	3100	500		2.0
132-64-9	Dibenzofuran	3100	630		2.0
84-66-2	Diethylphthalate	3200	630		2.0
131-11-3	Dimethyl phthalate	3200	630		2.0
84-74-2	Di-n-butyl phthalate	3300	630		2.0
117-84-0	Di-n-octyl phthalate	3100	630		2.0
206-44-0	Fluoranthene	3200	250		2.0
86-73-7	Fluorene	3300	250		2.0
118-74-1	Hexachlorobenzene	3100	500		2.0
87-68-3	Hexachlorobutadiene	2600	250	Z	2.0
77-47-4	Hexachlorocyclopentadiene	2200	2500	Z	2.0
67-72-1	Hexachloroethane	2400	250		2.0
193-39-5	Indeno(1,2,3-c,d)pyrene	3100	500		2.0
78-59-1	Isophorone	2500	250		2.0
91-20-3	Naphthalene	2800	250		2.0
98-95-3	Nitrobenzene	2700	500		2.0
67-75-9	N-Nitrosodimethylamine	2700	630		2.0
621-64-7	N-Nitrosodi-n-propylamine	2800	500		2.0
86-30-6	N-Nitrosodiphenylamine	3500	500		2.0
87-86-5	Pentachlorophenol	4800	4300	Z=800	2.0
85-01-8	Phenanthrene	3300	250		2.0
108-95-2	Phenol	5800	830		2.0
129-00-0	Pyrene	3500	250		2.0

Sample is a matrix spike.

Phenol compounds are spiked at 4000 ug/Kg wet weight.

Base Neutral compounds are spiked at 2000 ug/Kg wet weight.

RLs raised due to matrix.

Volatile Compounds

Analytical Method: 8260 Date Tested: 05/06/2011 Analyst: SJR
Extraction Method: 5035 Extraction Date: 05/02/2011 Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
##Weight of sample(grams)		9.55			

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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Organic Unit Mgr: Carol Smith
Systems Mgmt Unit: George Krisztian



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Sample Number: AB73271 SS-03-MSD

Volatile Compounds

Analytical Method: 8260 Date Tested: 05/06/2011 Analyst: SJR
Extraction Method: 5035 Extraction Date: 05/02/2011 Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
SURROGATE	#Bromofluorobenzene#	132			
SURROGATE	#Dibromofluoromethane#	171			
SURROGATE	#Toluene-d8#	154			
630-20-6	1,1,1,2-Tetrachloroethane	3700	78		50
71-55-6	1,1,1-Trichloroethane	4000	78		50
79-34-5	1,1,2,2-Tetrachloroethane	4400	78		50
79-00-5	1,1,2-Trichloroethane	4300	78		50
75-34-3	1,1-Dichloroethane	4100	78		50
75-35-4	1,1-Dichloroethylene	3600	78		50
87-61-6	1,2,3-Trichlorobenzene	4900	390	7	50
96-18-4	1,2,3-Trichloropropane	4700	78		50
526-73-8	1,2,3-Trimethylbenzene	4300	78		50
120-82-1	1,2,4-Trichlorobenzene	4500	390		50
95-63-6	1,2,4-Trimethylbenzene	4200	78		50
96-12-8	1,2-Dibromo-3-chloropropane	4300	390		50
106-93-4	1,2-Dibromoethane	3800	78	Z	50
95-50-1	1,2-Dichlorobenzene	4200	78		50
107-06-2	1,2-Dichloroethane	4000	78		50
78-87-5	1,2-Dichloropropane	4000	78		50
108-67-8	1,3,5-Trimethylbenzene	4300	78		50
541-73-1	1,3-Dichlorobenzene	4300	78		50
106-46-7	1,4-Dichlorobenzene	4200	78		50
78-93-3	2-Butanone (MEK)	3700	390		50
591-78-6	2-Hexanone	4100	390		50
91-57-6	2-Methylnaphthalene	5000	390	X7	50
67-64-1	2-Propanone (acetone)	3000	1600	7	50
108-10-1	4-Methyl-2-pentanone (MIBK)	4300	390		50
107-13-1	Acrylonitrile	4200	390	Z	50
71-43-2	Benzene	4000	78		50
108-86-1	Bromobenzene	4200	78		50
74-97-5	Bromochloromethane	4200	78		50
75-27-4	Bromodichloromethane	4000	78		50
75-25-2	Bromoform	3300	78		50
74-83-9	Bromomethane	3000	310	5	50
75-15-0	Carbon disulfide	3700	78		50
56-23-5	Carbon tetrachloride	3600	78		50
108-90-7	Chlorobenzene	3900	78		50
75-00-3	Chloroethane	3600	390		50
67-66-3	Chloroform	4000	78		50
74-87-3	Chloromethane	3700	390		50

CAS# : Chemical Abstract Service Registry Number
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ND : Not Detected

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mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
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Sample Number: AB73271 SS-03-MSD

Volatile Compounds

Analytical Method: 8260
Extraction Method: 5035

Date Tested: 05/06/2011
Extraction Date: 05/02/2011

Analyst: SJR
Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
156-59-2	cis-1,2-Dichloroethylene	4000	78		50
10061-01-5	cis-1,3-Dichloropropylene	4100	78		50
110-82-7	Cyclohexane	4000	390		50
124-48-1	Dibromochloromethane	3500	78		50
74-95-3	Dibromomethane	4200	78		50
75-71-8	Dichlorodifluoromethane	3600	390		50
60-29-7	Diethyl ether	3800	310		50
108-20-3	Diisopropyl Ether	4100	390		50
100-41-4	Ethylbenzene	4000	78		50
637-92-3	Ethyltertiarybutylether	4000	390		50
67-72-1	Hexachloroethane	4100	390		50
98-82-8	Isopropylbenzene	4200	78		50
108383,106423	m & p - Xylene	8100	160		50
74-88-4	Methyl iodide	3800	78		50
75-09-2	Methylene chloride	3700	160		50
1634-04-4	Methyltertiarybutylether	3800	78		50
91-20-3	Naphthalene	4700	390	X 7	50
104-51-8	n-Butylbenzene	4300	78		50
103-65-1	n-Propylbenzene	4300	78		50
95-47-6	o-Xylene	4000	78		50
99-87-6	p-Isopropyl toluene	4200	78		50
135-98-8	sec-Butylbenzene	4300	78		50
100-42-5	Styrene	4200	78		50
98-06-6	tert-Butylbenzene	4100	78		50
75-65-0	tertiary Butyl Alcohol	18000	3900		50
994-05-8	tertiary Amyl methyl ether	4000	390		50
127-18-4	Tetrachloroethylene	4300	78		50
109-99-9	Tetrahydrofuran	3900	390		50
108-88-3	Toluene	4000	78		50
156-60-5	trans-1,2-Dichloroethylene	3900	78		50
10061-02-6	trans-1,3-Dichloropropylene	3600	78		50
110-57-6	trans-1,4-Dichloro-2-butene	4100	390	Z	50
79-01-6	Trichloroethylene	4200	78		50
75-69-4	Trichlorofluoromethane	3400	78		50
75-01-4	Vinyl chloride	3900	78	Z	50

Sample is a matrix spike duplicate.

Compounds spiked at 3900 ug/Kg, except tertiary butyl alcohol spiked at 19500 ug/Kg & m&p-xylene spiked at 7800 ug/Kg.

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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Sample Number: AB73271 SS-03-MSD

CAS#	Analyte Name	Result	Unit	RL	Qualifier	Date Tested	Method	Analyst
57-12-5	Cyanide - Sediment	2	mg/Kg dry	0.1		05/11/2011	ASTMD 751	MB
	Cyanide Extraction	Completed				05/10/2011	9013	MB
	Digest Mercury - Sediment	Completed				05/11/2011	7471	TS
7439-97-6	Mercury - Sediment	54	mg/Kg dry	0.05		05/12/2011	7471	TS
7440-36-0	Antimony - Sediment	44	mg/Kg dry	0.3		05/21/2011	6020	KS
7440-38-2	Arsenic - Sediment	100	mg/Kg dry	0.5		05/18/2011	6020	KS
7440-39-3	Barium - Sediment	150	mg/Kg dry	1		05/18/2011	6020	KS
7440-41-7	Beryllium - Sediment	110	mg/Kg dry	0.2		05/18/2011	6020	KS
7440-43-9	Cadmium - Sediment	10	mg/Kg dry	0.2		05/18/2011	6020	KS
7440-47-3	Chromium - Sediment	110	mg/Kg dry	2		05/18/2011	6020	KS
7440-48-4	Cobalt - Sediment	110	mg/Kg dry	.5		05/18/2011	6020	KS
7440-50-8	Copper - Sediment	110	mg/Kg dry	1		05/18/2011	6020	KS
	Digest Antimony - Sediment	Completed				05/20/2011	3050	WN
	Digest Metals - Sediment	Completed				05/17/2011	3050	WN
7439-89-6	Iron - Sediment	13000	mg/Kg dry	50	D	05/25/2011	6010	WN
7439-92-1	Lead - Sediment	120	mg/Kg dry	1		05/18/2011	6020	KS
7439-96-5	Manganese - Sediment	700	mg/Kg dry	1	4	05/18/2011	6020	KS
7439-98-7	Molybdenum - Sediment	100	mg/Kg dry	1		05/18/2011	6020	KS
7440-02-0	Nickel - Sediment	100	mg/Kg dry	1		05/18/2011	6020	KS
7782-49-2	Selenium - Sediment	96	mg/Kg dry	0.2		05/18/2011	6020	KS
7440-22-4	Silver - Sediment	9.3	mg/Kg dry	0.1		05/18/2011	6020	KS
7440-28-0	Thallium - Sediment	94	mg/Kg dry	0.5		05/18/2011	6020	KS
7440-62-2	Vanadium - Sediment	110	mg/Kg dry	1		05/18/2011	6020	KS
7440-66-6	Zinc - Sediment	130	mg/Kg dry	1		05/18/2011	6020	KS
	% Total Solids	80.0	%	0.1		05/14/2011	2540B SM	KS
	Drying and Grinding - Sediment	COMPLETE				05/14/2011		KS
	Gel Permeation Cleanup-Pesticide/PCJ	Completed				05/10/2011	3640	DT
	Gel Permeation Cleanup-SVOC Analy	Completed				05/11/2011	3640	DT

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Sample Number: AB73272 SS-04

Pesticides and PCBs

Analytical Method: 8081,8082
Extraction Method: 3545

Date Tested: 05/12/2011
Extraction Date: 05/06/2011

Analyst: MF
Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
SURROGATE	#Decachlorobiphenyl#	38.6			
SURROGATE	#Tetrachloro-m-xylene#	71.2			
72-54-8	4,4'-DDD	150	290	TK	10
72-55-9	4,4'-DDE	1600	290		10
50-29-3	4,4'-DDT	640	290		10
319-84-6	a-BHC	Not Detected	15		1.0
5103-71-9	a-Chlordane	Not Detected	29		1.0
309-00-2	Aldrin	Not Detected	29		1.0
12674-11-2	Aroclor 1016	Not Detected	150		1.0
11104-28-2	Aroclor 1221	Not Detected	150		1.0
11141-16-5	Aroclor 1232	Not Detected	150		1.0
53469-21-9	Aroclor 1242	Not Detected	150		1.0
12672-29-6	Aroclor 1248	Not Detected	150		1.0
11097-69-1	Aroclor 1254	Not Detected	150		1.0
11096-82-5	Aroclor 1260	Not Detected	150		1.0
87324-23-5	Aroclor 1262	Not Detected	150		1.0
11100-14-4	Aroclor 1268	Not Detected	150		1.0
319-85-7	b-BHC	Not Detected	29		1.0
319-86-8	d-BHC	Not Detected	29		1.0
60-57-1	Dieldrin	Not Detected	29		1.0
959-98-8	Endosulfan I	Not Detected	29		1.0
33213-65-9	Endosulfan II	Not Detected	29		1.0
1031-07-8	Endosulfan sulfate	Not Detected	29		1.0
72-20-8	Endrin	Not Detected	29		1.0
7421-93-4	Endrin aldehyde	Not Detected	29		1.0
53494-70-5	Endrin ketone	Not Detected	29		1.0
58-89-9	g-BHC (Lindane)	Not Detected	29		1.0
5103-74-2	g-Chlordane	Not Detected	29		1.0
76-44-8	Heptachlor	Not Detected	29		1.0
1024-57-3	Heptachlor epoxide	Not Detected	29		1.0
87-82-1	Hexabromobenzene	Not Detected	150		1.0
72-43-5	Methoxychlor	Not Detected	730	K	10
2385-85-5	Mirex	Not Detected	73		1.0
59080-40-9	PBB (BP-6)	Not Detected	360		1.0
8001-35-2	Toxaphene	Not Detected	2500	K	10

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Sample Number: AB73272 SS-04

Base Neutral Acid Compounds

Analytical Method: 8270 Date Tested: 05/15/2011 Analyst: SMH
Extraction Method: 3545 Extraction Date: 05/09/2011 Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
SURROGATE	#2-Fluorobiphenyl#	56.8			
SURROGATE	#2,4,6-Tribromophenol#	63.6			
SURROGATE	#2-Fluorophenol#	54.2			
SURROGATE	#Nitrobenzene - D5#	50.2			
SURROGATE	#Phenol - D6#	61.9			
SURROGATE	#p-Terphenyl-d14#	68.0			
120-82-1	1,2,4-Trichlorobenzene	Not Detected	580		2.0
95-95-4	2,4,5-Trichlorophenol	Not Detected	960		2.0
88-06-2	2,4,6-Trichlorophenol	Not Detected	960		2.0
120-83-2	2,4-Dichlorophenol	Not Detected	960		2.0
105-67-9	2,4-Dimethylphenol	Not Detected	960		2.0
51-28-5	2,4-Dinitrophenol	Not Detected	5000	Z	2.0
121-14-2	2,4-Dinitrotoluene	Not Detected	730		2.0
606-20-2	2,6-Dinitrotoluene	Not Detected	730		2.0
91-58-7	2-Chloronaphthalene	Not Detected	580		2.0
95-57-8	2-Chlorophenol	Not Detected	960		2.0
534-52-1	2-Methyl-4,6-dinitrophenol	Not Detected	5000	Z	2.0
91-57-6	2-Methylnaphthalene	Not Detected	730		2.0
95-48-7	2-Methylphenol (o-Cresol)	Not Detected	960		2.0
88-74-4	2-Nitroaniline	Not Detected	1500		2.0
88-75-5	2-Nitrophenol	Not Detected	960		2.0
108394,106445	3 & 4-Methylphenol	Not Detected	1900		2.0
99-09-2	3-Nitroaniline	Not Detected	1500	3	2.0
101-55-3	4-Bromophenyl phenyl ether	Not Detected	580		2.0
59-50-7	4-Chloro-3-methyl-phenol	Not Detected	580		2.0
7005-72-3	4-Chlorodiphenylether	Not Detected	290		2.0
100-01-6	4-Nitroaniline	Not Detected	1500		2.0
100-02-7	4-Nitrophenol	Not Detected	5000	Z	2.0
83-32-9	Acenaphthene	Not Detected	290		2.0
208-96-8	Acenaphthylene	Not Detected	290		2.0
120-12-7	Anthracene	Not Detected	290		2.0
103-33-3	Azobenzene	Not Detected	580		2.0
56-55-3	Benzo[a]anthracene	830	290		2.0
50-32-8	Benzo[a]pyrene	1100	580		2.0
205-99-2	Benzo[b]fluoranthene	1700	580		2.0
191-24-2	Benzo[ghi]perylene	Not Detected	580		2.0
207-08-9	Benzo[k]fluoranthene	560	580	T	2.0
100-51-6	Benzyl Alcohol	Not Detected	7300		2.0
111-91-1	Bis(2-chloroethoxy)methane	Not Detected	580		2.0
111-44-4	Bis(2-chloroethyl)ether	Not Detected	290		2.0

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
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mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
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Sample Number: AB73272 SS-04

Base Neutral Acid Compounds

Analytical Method: 8270 Date Tested: 05/15/2011 Analyst: SMH
Extraction Method: 3545 Extraction Date: 05/09/2011 Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
108-60-1	Bis(2-chloroisopropyl)ether	Not Detected	290		2.0
117-81-7	Bis(2-ethylhexyl)phthalate	Not Detected	730		2.0
85-68-7	Butyl benzyl phthalate	Not Detected	730		2.0
86-74-8	Carbazole	Not Detected	730		2.0
218-01-9	Chrysene	1100	290		2.0
53-70-3	Dibenz[a,h]anthracene	Not Detected	580		2.0
132-64-9	Dibenzofuran	Not Detected	730		2.0
84-66-2	Diethylphthalate	Not Detected	730		2.0
131-11-3	Dimethyl phthalate	Not Detected	730		2.0
84-74-2	Di-n-butyl phthalate	Not Detected	730		2.0
117-84-0	Di-n-octyl phthalate	Not Detected	730		2.0
206-44-0	Fluoranthene	1100	290		2.0
86-73-7	Fluorene	Not Detected	290		2.0
118-74-1	Hexachlorobenzene	Not Detected	580		2.0
87-68-3	Hexachlorobutadiene	Not Detected	290	Z	2.0
77-47-4	Hexachlorocyclopentadiene	Not Detected	2900	Z	2.0
67-72-1	Hexachloroethane	Not Detected	290		2.0
193-39-5	Indeno(1,2,3-c,d)pyrene	Not Detected	580		2.0
78-59-1	Isophorone	Not Detected	290		2.0
91-20-3	Naphthalene	Not Detected	290		2.0
98-95-3	Nitrobenzene	Not Detected	580		2.0
67-75-9	N-Nitrosodimethylamine	Not Detected	730		2.0
621-64-7	N-Nitroso-di-n-propylamine	Not Detected	580		2.0
86-30-6	N-Nitrosodiphenylamine	Not Detected	580		2.0
87-86-5	Pentachlorophenol	Not Detected	5000	Z=800	2.0
85-01-8	Phenanthrene	270	290	T	2.0
108-95-2	Phenol	Not Detected	960		2.0
129-00-0	Pyrene	1100	290		2.0

RLs raised due to matrix.

Volatile Compounds

Analytical Method: 8260 Date Tested: 05/06/2011 Analyst: SJR
Extraction Method: 5035 Extraction Date: 05/02/2011 Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
	##Weight of sample(grams)	9.15			
SURROGATE	#Bromofluorobenzene#	128			
SURROGATE	#Dibromofluoromethane#	41			
SURROGATE	#Toluene-d8#	143			

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
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Sample Number: AB73272 SS-04

Volatile Compounds

Analytical Method: 8260
Extraction Method: 5035

Date Tested: 05/06/2011
Extraction Date: 05/02/2011

Analyst: SJR
Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
630-20-6	1,1,1,2-Tetrachloroethane	Not Detected	100		50
71-55-6	1,1,1-Trichloroethane	Not Detected	100		50
79-34-5	1,1,2,2-Tetrachloroethane	Not Detected	100		50
79-00-5	1,1,2-Trichloroethane	Not Detected	100		50
75-34-3	1,1-Dichloroethane	Not Detected	100		50
75-35-4	1,1-Dichloroethylene	Not Detected	100		50
87-61-6	1,2,3-Trichlorobenzene	Not Detected	510	7	50
96-18-4	1,2,3-Trichloropropane	Not Detected	100		50
526-73-8	1,2,3-Trimethylbenzene	Not Detected	100		50
120-82-1	1,2,4-Trichlorobenzene	Not Detected	510		50
95-63-6	1,2,4-Trimethylbenzene	Not Detected	100		50
96-12-8	1,2-Dibromo-3-chloropropane	Not Detected	510		50
106-93-4	1,2-Dibromoethane	Not Detected	100	Z	50
95-50-1	1,2-Dichlorobenzene	Not Detected	100		50
107-06-2	1,2-Dichloroethane	Not Detected	100		50
78-87-5	1,2-Dichloropropane	Not Detected	100		50
108-67-8	1,3,5-Trimethylbenzene	Not Detected	100		50
541-73-1	1,3-Dichlorobenzene	Not Detected	100		50
106-46-7	1,4-Dichlorobenzene	Not Detected	100		50
78-93-3	2-Butanone (MEK)	Not Detected	510		50
591-78-6	2-Hexanone	Not Detected	510		50
91-57-6	2-Methylnaphthalene	Not Detected	510	X-7	50
67-64-1	2-Propanone (acetone)	Not Detected	2100	7	50
108-10-1	4-Methyl-2-pentanone (MIBK)	Not Detected	510		50
107-13-1	Acrylonitrile	Not Detected	510	Z	50
71-43-2	Benzene	Not Detected	100		50
108-86-1	Bromobenzene	Not Detected	100		50
74-97-5	Bromochloromethane	Not Detected	100		50
75-27-4	Bromodichloromethane	Not Detected	100		50
75-25-2	Bromoform	Not Detected	100		50
74-83-9	Bromomethane	Not Detected	410	5	50
75-15-0	Carbon disulfide	Not Detected	100		50
56-23-5	Carbon tetrachloride	Not Detected	100		50
108-90-7	Chlorobenzene	Not Detected	100		50
75-00-3	Chloroethane	Not Detected	510		50
67-66-3	Chloroform	Not Detected	100		50
74-87-3	Chloromethane	Not Detected	510		50
156-59-2	cis-1,2-Dichloroethylene	Not Detected	100		50
10061-01-5	cis-1,3-Dichloropropylene	Not Detected	100		50
110-82-7	Cyclohexane	Not Detected	510		50

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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Sample Number: AB73272 SS-04

Volatile Compounds

Analytical Method: 8260
Extraction Method: 5035

Date Tested: 05/06/2011
Extraction Date: 05/02/2011

Analyst: SJR
Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
124-48-1	Dibromochloromethane	Not Detected	100		50
74-95-3	Dibromomethane	Not Detected	100		50
75-71-8	Dichlorodifluoromethane	Not Detected	510		50
60-29-7	Diethyl ether	Not Detected	410		50
108-20-3	Diisopropyl Ether	Not Detected	510		50
100-41-4	Ethylbenzene	Not Detected	100		50
637-92-3	Ethyltertiarybutylether	Not Detected	510		50
67-72-1	Hexachloroethane	Not Detected	510		50
98-82-8	Isopropylbenzene	Not Detected	100		50
108383,106423	m & p - Xylene	Not Detected	210		50
74-88-4	Methyl iodide	Not Detected	100		50
75-09-2	Methylene chloride	Not Detected	210		50
1634-04-4	Methyltertiarybutylether	Not Detected	100		50
91-20-3	Naphthalene	Not Detected	510	X 7	50
104-51-8	n-Butylbenzene	Not Detected	100		50
103-65-1	n-Propylbenzene	Not Detected	100		50
95-47-6	o-Xylene	Not Detected	100		50
99-87-6	p-Isopropyl toluene	Not Detected	100		50
135-98-8	sec-Butylbenzene	Not Detected	100		50
100-42-5	Styrene	Not Detected	100		50
98-06-6	tert-Butylbenzene	Not Detected	100		50
75-65-0	tertiary Butyl Alcohol	Not Detected	5100		50
994-05-8	tertiary Amyl methyl ether	Not Detected	510		50
127-18-4	Tetrachloroethylene	Not Detected	100		50
109-99-9	Tetrahydrofuran	Not Detected	510		50
108-88-3	Toluene	Not Detected	100		50
156-60-5	trans-1,2-Dichloroethylene	Not Detected	100		50
10061-02-6	trans-1,3-Dichloropropylene	Not Detected	100		50
110-57-6	trans-1,4-Dichloro-2-butene	Not Detected	510	Z	50
79-01-6	Trichloroethylene	Not Detected	100		50
75-69-4	Trichlorofluoromethane	Not Detected	100		50
75-01-4	Vinyl chloride	Not Detected	100	Z	50

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ug / Kg : microgram / kilogram (ppb)
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Sample Number: AB73272 SS-04

CAS#	Analyte Name	Result	Unit	RL	Qualifier	Date Tested	Method	Analyst
57-12-5	Cyanide - Sediment	0.2	mg/Kg dry	0.1		05/11/2011	ASTM D 751	MB
	Cyanide-Extraction	Completed				05/10/2011	9013	MB
	Digest Mercury - Sediment	Completed				05/11/2011	7471	TS
7439-97-6	Mercury - Sediment	.11	mg/Kg dry	0.05		05/12/2011	7471	TS
7440-36-0	Antimony - Sediment	1.1	mg/Kg dry	0.3		05/21/2011	6020	KS
7440-38-2	Arsenic - Sediment	.12	mg/Kg dry	0.5		05/18/2011	6020	KS
7440-39-3	Barium - Sediment	64	mg/Kg dry	1		05/18/2011	6020	KS
7440-41-7	Beryllium - Sediment	0.45	mg/Kg dry	0.2		05/18/2011	6020	KS
7440-43-9	Cadmium - Sediment	0.67	mg/Kg dry	0.2		05/18/2011	6020	KS
7440-47-3	Chromium - Sediment	.17	mg/Kg dry	.2		05/18/2011	6020	KS
7440-48-4	Cobalt - Sediment	4.2	mg/Kg dry	.5		05/18/2011	6020	KS
7440-50-8	Copper - Sediment	28	mg/Kg dry	1		05/18/2011	6020	KS
	Digest Antimony - Sediment	Completed				05/20/2011	3050	WN
	Digest Metals - Sediment	Completed				05/17/2011	3050	WN
7439-89-6	Iron - Sediment	13000	mg/Kg dry	50	D	05/25/2011	6010	WN
7439-92-1	Lead - Sediment	180	mg/Kg dry	1		05/18/2011	6020	KS
7439-96-5	Manganese - Sediment	250	mg/Kg dry	1		05/18/2011	6020	KS
7439-98-7	Molybdenum - Sediment	1.2	mg/Kg dry	1		05/18/2011	6020	KS
7440-02-0	Nickel - Sediment	13	mg/Kg dry	1		05/18/2011	6020	KS
7782-49-2	Selenium - Sediment	0.75	mg/Kg dry	0.2		05/18/2011	6020	KS
7440-22-4	Silver - Sediment	0.14	mg/Kg dry	0.1		05/18/2011	6020	KS
7440-28-0	Thallium - Sediment	ND	mg/Kg dry	0.5		05/18/2011	6020	KS
7440-62-2	Vanadium - Sediment	16	mg/Kg dry	1		05/18/2011	6020	KS
7440-66-6	Zinc - Sediment	130	mg/Kg dry	1		05/18/2011	6020	KS
	% Total Solids	68.5	%	0.1		05/14/2011	2540B SM	KS
	Drying and Grinding - Sediment	COMPLETE				05/14/2011		KS
	Gel Permeation Cleanup-Pesticide/PCI	Completed				05/10/2011	3640	DT
	Gel Permeation Cleanup-SVOC Analy	Completed				05/11/2011	3640	DT

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Sample Number: AB73273 SS-05

Pesticides and PCBs

Analytical Method: 8081,8082 Date Tested: 05/12/2011 Analyst: MF
Extraction Method: 3545 Extraction Date: 05/06/2011 Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
SURROGATE	#Decachlorobiphenyl#	0.0		9	
SURROGATE	#Tetrachloro-m-xylene#	67.1			
72-54-8	4,4'-DDD	Not Detected	53		2.0
72-55-9	4,4'-DDE	Not Detected	53		2.0
50-29-3	4,4'-DDT	Not Detected	270		10
319-84-6	a-BHC	Not Detected	27		2.0
5103-71-9	a-Chlordane	Not Detected	53		2.0
809-00-2	Aldrin	Not Detected	53		2.0
12674-11-2	Aroclor 1016	Not Detected	270		2.0
11104-28-2	Aroclor 1221	Not Detected	270		2.0
11141-16-5	Aroclor 1232	Not Detected	270		2.0
53469-21-9	Aroclor 1242	Not Detected	270		2.0
12672-29-6	Aroclor 1248	Not Detected	270		2.0
11097-69-1	Aroclor 1254	Not Detected	270		2.0
11096-82-5	Aroclor 1260	Not Detected	270		2.0
87324-23-5	Aroclor 1262	Not Detected	270		2.0
11100-14-4	Aroclor 1268	Not Detected	270		2.0
319-85-7	b-BHC	Not Detected	53		2.0
319-86-8	d-BHC	Not Detected	53		2.0
60557-1	Dieldrin	Not Detected	53		2.0
959-98-8	Endosulfan I	Not Detected	53		2.0
33213-65-9	Endosulfan II	Not Detected	53		2.0
1031-07-8	Endosulfan sulfate	Not Detected	53		2.0
72-20-8	Endrin	Not Detected	53		2.0
7421-93-4	Endrin aldehyde	Not Detected	53		2.0
53494-70-5	Endrin ketone	Not Detected	53		2.0
58-89-9	g-BHC (Lindane)	Not Detected	53		2.0
5103-74-2	g-Chlordane	Not Detected	53		2.0
76-44-8	Heptachlor	Not Detected	53		2.0
1024-57-3	Heptachlor epoxide	Not Detected	53		2.0
87-82-1	Hexabromobenzene	Not Detected	270		2.0
72-43-5	Methoxychlor	Not Detected	660		10
2385-85-5	Mirex	Not Detected	130		2.0
59080-40-9	PBB (BP-6)	Not Detected	660		2.0
8001-35-2	Toxaphene	Not Detected	2300		10

Result(s) and RL(s) are estimated due to low surrogate recovery.

RLs raised due to matrix interference.

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
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Sample Number: AB73273 SS-05

Base Neutral Acid Compounds

Analytical Method: 8270 Date Tested: 05/15/2011 Analyst: SMH
Extraction Method: 3545 Extraction Date: 05/09/2011 Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
SURROGATE	#2-Fluorobiphenyl#	75.7			
SURROGATE	#2,4,6-Tribromophenol#	77.0			
SURROGATE	#2-Fluorophenol#	55.9			
SURROGATE	#Nitrobenzene - D5#	60.2			
SURROGATE	#Phenol -D6#	77.2			
SURROGATE	#p-Terphenyl-d14#	93.1			
120-82-1	1,2,4-Trichlorobenzene	Not Detected	530		2.0
95-95-4	2,4,5-Trichlorophenol	Not Detected	880		2.0
88-06-2	2,4,6-Trichlorophenol	Not Detected	880		2.0
120-83-2	2,4-Dichlorophenol	Not Detected	880		2.0
105-67-9	2,4-Dimethylphenol	Not Detected	880		2.0
51-28-5	2,4-Dinitrophenol	Not Detected	4500	Z	2.0
121-14-2	2,4-Dinitrotoluene	Not Detected	660		2.0
606-20-2	2,6-Dinitrotoluene	Not Detected	660		2.0
91-58-7	2-Chloronaphthalene	Not Detected	530		2.0
95-57-8	2-Chlorophenol	Not Detected	880		2.0
534-52-1	2-Methyl-4,6-dinitrophenol	Not Detected	4500	Z	2.0
91-57-6	2-Methylnaphthalene	Not Detected	660		2.0
95-48-7	2-Methylphenol (o-Cresol)	Not Detected	880		2.0
88-74-4	2-Nitroaniline	Not Detected	1300		2.0
88-75-5	2-Nitrophenol	Not Detected	880		2.0
108394,106445	3 & 4-Methylphenol	Not Detected	1800		2.0
99-09-2	3-Nitroaniline	Not Detected	1300	3	2.0
101-55-3	4-Bromophenyl phenyl ether	Not Detected	530		2.0
59-50-7	4-Chloro-3-methyl-phenol	Not Detected	530		2.0
7005-72-3	4-Chlorodiphenylether	Not Detected	270		2.0
100-01-6	4-Nitroaniline	Not Detected	1300		2.0
100-02-7	4-Nitrophenol	Not Detected	4500	Z	2.0
83-32-9	Acenaphthene	Not Detected	270		2.0
208-96-8	Acenaphthylene	Not Detected	270		2.0
120-12-7	Anthracene	Not Detected	270		2.0
103-33-3	Azobenzene	Not Detected	530		2.0
56-55-3	Benzo[a]anthracene	Not Detected	270		2.0
50-32-8	Benzo[a]pyrene	Not Detected	5300		20
205-99-2	Benzo[b]fluoranthene	Not Detected	5300		20
197-24-2	Benzo[g,h,i]perylene	Not Detected	5300		20
207-08-9	Benzo[k]fluoranthene	Not Detected	5300		20
100-51-6	Benzyl Alcohol	Not Detected	6600		2.0
111-91-1	Bis(2-chloroethoxy)methane	Not Detected	530		2.0
111-44-4	Bis(2-chloroethyl)ether	Not Detected	270		2.0

CAS# : Chemical Abstract Service Registry Number
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ND : Not Detected

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mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
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Sample Number: AB73273 SS-05

Base Neutral Acid Compounds

Analytical Method: 8270 Date Tested: 05/15/2011 Analyst: SMH
Extraction Method: 3545 Extraction Date: 05/09/2011 Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
108-60-1	Bis(2-chloroisopropyl)ether	Not Detected	270		2.0
117-81-7	Bis(2-ethylhexyl)phthalate	Not Detected	660		2.0
85-68-7	Butyl benzyl phthalate	Not Detected	660		2.0
86-74-8	Carbazole	Not Detected	660		2.0
218-01-9	Chrysene	380	270		2.0
53-70-3	Dibenz[a,h]anthracene	Not Detected	5300		20
132-64-9	Dibenzofuran	Not Detected	660		2.0
84-66-2	Diethylphthalate	Not Detected	660		2.0
131-11-3	Dimethyl phthalate	Not Detected	660		2.0
84-74-2	Di-n-butyl phthalate	Not Detected	660		2.0
117-84-0	Di-n-octyl phthalate	Not Detected	660		2.0
206-44-0	Fluoranthene	Not Detected	270		2.0
86-73-7	Fluorene	Not Detected	270		2.0
118-74-1	Hexachlorobenzene	Not Detected	530		2.0
87-68-3	Hexachlorobutadiene	Not Detected	270	Z	2.0
77-47-4	Hexachlorocyclopentadiene	Not Detected	2700	Z	2.0
67-72-1	Hexachloroethane	Not Detected	270		2.0
193-39-5	Indeno(1,2,3-c,d)pyrene	Not Detected	5300		20
78-59-1	Isophorone	Not Detected	270		2.0
91-20-3	Naphthalene	Not Detected	270		2.0
98-95-3	Nitrobenzene	Not Detected	530		2.0
67-75-9	N-Nitrosodimethylamine	Not Detected	660		2.0
621-64-7	N-Nitrosodi-n-propylamine	Not Detected	530		2.0
86-30-6	N-Nitrosodiphenylamine	Not Detected	530		2.0
87-86-5	Pentachlorophenol	Not Detected	4500	Z=800	2.0
85-01-8	Phenanthrene	Not Detected	270		2.0
108-95-2	Phenol	Not Detected	880		2.0
129-00-0	Pyrene	370	270		2.0

Probable petroleum product(s) present.

RLs raised due to matrix interference.

Volatile Compounds

Analytical Method: 8260 Date Tested: 05/06/2011 Analyst: SJR
Extraction Method: 5035 Extraction Date: 05/02/2011 Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
	##Weight of sample(grams)	8.97			
SURROGATE	#Bromofluorobenzene#	109			
SURROGATE	#Dibromofluoromethane#	133			

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ND : Not Detected

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Sample Number: AB73273 SS-05

Volatile Compounds

Analytical Method: 8260
Extraction Method: 5035

Date Tested: 05/06/2011
Extraction Date: 05/02/2011

Analyst: SJR
Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
SURROGATE	#Toluene-d8#	124			
630-20-6	1,1,1,2-Tetrachloroethane	Not Detected	90		50
71-55-6	1,1,1-Trichloroethane	Not Detected	90		50
79-34-5	1,1,2,2-Tetrachloroethane	Not Detected	90		50
79-00-5	1,1,2-Trichloroethane	Not Detected	90		50
75-34-3	1,1-Dichloroethane	Not Detected	90		50
75-35-4	1,1-Dichloroethylene	Not Detected	90		50
87-61-6	1,2,3-Trichlorobenzene	Not Detected	450	7	50
96-18-4	1,2,3-Trichloropropane	Not Detected	90		50
526-73-8	1,2,3-Trimethylbenzene	Not Detected	90		50
120-82-1	1,2,4-Trichlorobenzene	Not Detected	450		50
95-63-6	1,2,4-Trimethylbenzene	Not Detected	90		50
96-12-8	1,2-Dibromo-3-chloropropane	Not Detected	450		50
106-93-4	1,2-Dibromoethane	Not Detected	90	Z	50
95-50-1	1,2-Dichlorobenzene	Not Detected	90		50
107-06-2	1,2-Dichloroethane	Not Detected	90		50
78-87-5	1,2-Dichloropropane	Not Detected	90		50
108-67-8	1,3,5-Trimethylbenzene	Not Detected	90		50
541-73-1	1,3-Dichlorobenzene	Not Detected	90		50
106-46-7	1,4-Dichlorobenzene	Not Detected	90		50
78-93-3	2-Butanone (MEK)	Not Detected	450		50
591-78-6	2-Hexanone	Not Detected	450		50
91-57-6	2-Methylnaphthalene	Not Detected	450	X7	50
67-64-1	2-Propanone (acetone)	Not Detected	1800	7	50
108-10-1	4-Methyl-2-pentanone (MIBK)	Not Detected	450		50
107-13-1	Acrylonitrile	Not Detected	450	Z	50
71-43-2	Benzene	Not Detected	90		50
108-86-1	Bromobenzene	Not Detected	90		50
74-97-5	Bromochloromethane	Not Detected	90		50
75-27-4	Bromodichloromethane	Not Detected	90		50
75-25-2	Bromoform	Not Detected	90		50
74-83-9	Bromomethane	Not Detected	360	5	50
75-15-0	Carbon disulfide	Not Detected	90		50
56-23-5	Carbon tetrachloride	Not Detected	90		50
108-90-7	Chlorobenzene	Not Detected	90		50
75-00-3	Chloroethane	Not Detected	450		50
67-66-3	Chloroform	Not Detected	90		50
74-87-3	Chloromethane	Not Detected	450		50
156-59-2	cis-1,2-Dichloroethylene	Not Detected	90		50
10061-01-5	cis-1,3-Dichloropropylene	Not Detected	90		50

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Sample Number: AB73273 SS-05

Volatile Compounds

Analytical Method: 8260
Extraction Method: 5035

Date Tested: 05/06/2011
Extraction Date: 05/02/2011

Analyst: SJR
Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
110-82-7	Cyclohexane	Not Detected	450		50
124-48-1	Dibromochloromethane	Not Detected	90		50
74-95-3	Dibromomethane	Not Detected	90		50
75-71-8	Dichlorodifluoromethane	Not Detected	450		50
60-29-7	Diethyl ether	Not Detected	360		50
108-20-3	Diisopropyl Ether	Not Detected	450		50
100-41-4	Ethylbenzene	Not Detected	90		50
637-92-3	Ethyltertiarybutylether	Not Detected	450		50
67-72-1	Hexachloroethane	Not Detected	450		50
98-82-8	Isopropylbenzene	Not Detected	90		50
108383,106423	m & p - Xylene	Not Detected	180		50
74-88-4	Methyl iodide	Not Detected	90		50
75-09-2	Methylene chloride	Not Detected	180		50
1634-04-4	Methyltertiarybutylether	Not Detected	90		50
91-20-3	Naphthalene	Not Detected	450	X 7	50
104-51-8	n-Butylbenzene	Not Detected	90		50
103-65-1	n-Propylbenzene	Not Detected	90		50
95-47-6	o-Xylene	Not Detected	90		50
99-87-6	p-Isopropyl toluene	Not Detected	90		50
135-98-8	sec-Butylbenzene	Not Detected	90		50
100-42-5	Styrene	Not Detected	90		50
98-06-6	tert-Butylbenzene	Not Detected	90		50
75-65-0	tertiary Butyl Alcohol	Not Detected	4500		50
99-05-8	tertiary Amyl methyl ether	Not Detected	450		50
127-18-4	Tetrachloroethylene	Not Detected	90		50
109-99-9	Tetrahydrofuran	Not Detected	450		50
108-88-3	Toluene	Not Detected	90		50
156-60-5	trans-1,2-Dichloroethylene	Not Detected	90		50
10061-02-6	trans-1,3-Dichloropropylene	Not Detected	90		50
110-57-6	trans-1,4-Dichloro-2-butene	Not Detected	450	Z	50
79-01-6	Trichloroethylene	Not Detected	90		50
75-69-4	Trichlorofluoromethane	Not Detected	90		50
75-01-4	Vinyl chloride	Not Detected	90	Z	50

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

Laboratory Contacts
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Organic Unit Mgr: Carol Smith
Systems Mgmt Unit: George Krisztian



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Sample Number: AB73273 SS-05

CAS#	Analyte Name	Result	Unit	RL	Qualifier	Date Tested	Method	Analyst
57-12-5	Cyanide - Sediment	0.3	mg/Kg dry	0.1		05/11/2011	ASTM D 751	MB
	Cyanide-Extraction	Completed				05/10/2011	9013	MB
	Digest Mercury - Sediment	Completed				05/11/2011	7471	TS
7439-97-6	Mercury - Sediment	ND	mg/Kg dry	0.05		05/12/2011	7471	TS
7440-36-0	Antimony - Sediment	0.83	mg/Kg dry	0.3		05/21/2011	6020	KS
7440-38-2	Arsenic - Sediment	3.4	mg/Kg dry	0.5		05/18/2011	6020	KS
7440-39-3	Barium - Sediment	86	mg/Kg dry	1		05/18/2011	6020	KS
7440-41-7	Beryllium - Sediment	0.22	mg/Kg dry	0.2		05/18/2011	6020	KS
7440-43-9	Cadmium - Sediment	0.60	mg/Kg dry	0.2		05/18/2011	6020	KS
7440-47-3	Chromium - Sediment	14	mg/Kg dry	2		05/18/2011	6020	KS
7440-48-4	Cobalt - Sediment	3.4	mg/Kg dry	.5		05/18/2011	6020	KS
7440-50-8	Copper - Sediment	56	mg/Kg dry	1		05/18/2011	6020	KS
	Digest Antimony - Sediment	Completed				05/20/2011	3050	WN
	Digest Metals - Sediment	Completed				05/17/2011	3050	WN
7439-89-6	Iron - Sediment	17000	mg/Kg dry	50	D	05/25/2011	6010	WN
7439-92-1	Lead - Sediment	220	mg/Kg dry	1		05/18/2011	6020	KS
7439-96-5	Manganese - Sediment	230	mg/Kg dry	1		05/18/2011	6020	KS
7439-98-7	Molybdenum - Sediment	ND	mg/Kg dry	1		05/18/2011	6020	KS
7440-02-0	Nickel - Sediment	10	mg/Kg dry	1		05/18/2011	6020	KS
7782-49-2	Selenium - Sediment	0.36	mg/Kg dry	0.2		05/18/2011	6020	KS
7440-22-4	Silver - Sediment	0.14	mg/Kg dry	0.1		05/18/2011	6020	KS
7440-28-0	Thallium - Sediment	ND	mg/Kg dry	0.5		05/18/2011	6020	KS
7440-62-2	Vanadium - Sediment	11	mg/Kg dry	1		05/18/2011	6020	KS
7440-66-6	Zinc - Sediment	210	mg/Kg dry	1		05/18/2011	6020	KS
	% Total Solids	75.4	%	0.1		05/14/2011	2540B SM	KS
	Drying and Grinding - Sediment	COMPLETE				05/14/2011		KS
	Gel Permeation Cleanup-Pesticide/PC	Completed				05/10/2011	3640	DT
	Gel Permeation Cleanup-SVOC Analy	Completed				05/11/2011	3640	DT

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 ug / Kg : microgram / kilogram (ppb)
 mg / Kg : milligram / kilogram (ppm)

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Sample Number: AB73274 SS-06

Pesticides and PCBs

Analytical Method: 8081,8082 Date Tested: 05/15/2011 Analyst: MF
Extraction Method: 3545 Extraction Date: 05/06/2011 Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
SURROGATE	#Decachlorobiphenyl#	44.9			
SURROGATE	#Tetrachloro-m-xylene#	79.7			
72-54-8	4,4'-DDD	2800	470		20
72-55-9	4,4'-DDE	1500	470		20
50-29-3	4,4'-DDT	14000	4700		200
319-84-6	a-BHC	Not Detected	470		20
5103-71-9	a-Chlordane	Not Detected	470		20
509-00-2	Aldrin	Not Detected	470		20
12674-11-2	Aroclor 1016	Not Detected	2400		20
11104-28-2	Aroclor 1221	Not Detected	2400		20
11141-16-5	Aroclor 1232	Not Detected	2400		20
53469-21-9	Aroclor 1242	Not Detected	2400		20
12672-29-6	Aroclor 1248	Not Detected	2400		20
11097-69-1	Aroclor 1254	Not Detected	2400		20
11096-82-5	Aroclor 1260	Not Detected	2400		20
37324-23-5	Aroclor 1262	Not Detected	2400		20
11100-14-4	Aroclor 1268	Not Detected	2400		20
319-85-7	b-BHC	Not Detected	470		20
319-86-8	d-BHC	Not Detected	470		20
60-57-1	Dieldrin	Not Detected	470		20
959-98-8	Endosulfan I	Not Detected	470		20
33213-65-9	Endosulfan II	Not Detected	470		20
1031-07-8	Endosulfan sulfate	Not Detected	470		20
72-20-8	Endrin	Not Detected	470		20
7421-93-4	Endrin aldehyde	Not Detected	470		20
53494-70-5	Endrin ketone	Not Detected	470		20
58-89-9	g-BHC (Lindane)	Not Detected	470		20
5103-74-2	g-Chlordane	Not Detected	470		20
76-44-8	Heptachlor	Not Detected	470		20
1024-57-3	Heptachlor epoxide	Not Detected	470		20
87-82-1	Hexabromobenzene	Not Detected	2400		20
72-43-5	Methoxychlor	Not Detected	1200		20
2385-85-5	Mirex	Not Detected	1200		20
59080-40-9	PBB (BP-6)	Not Detected	5900		20
8001-35-2	Toxaphene	Not Detected	4000		20

RLs raised due to matrix interference.

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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Sample Number: AB73274 SS-06

Base Neutral Acid Compounds

Analytical Method: 8270 Date Tested: 05/13/2011 Analyst: SMH
Extraction Method: 3545 Extraction Date: 05/05/2011 Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
SURROGATE	#2-Fluorobiphenyl#	Not Applicable		V	
SURROGATE	#2,4,6-Tribromophenol#	Not Applicable		V	
SURROGATE	#2-Fluorophenol#	Not Applicable		V	
SURROGATE	#Nitrobenzene - D5#	Not Applicable		V	
SURROGATE	#Phenol - D6#	Not Applicable		V	
SURROGATE	#p-Terphenyl-d14#	Not Applicable		V	
120-82-1	1,2,4-Trichlorobenzene	Not Detected	24000		100
95-95-4	2,4,5-Trichlorophenol	Not Detected	39000		100
88-06-2	2,4,6-Trichlorophenol	Not Detected	39000		100
120-83-2	2,4-Dichlorophenol	Not Detected	39000		100
105-67-9	2,4-Dimethylphenol	Not Detected	39000		100
51-28-5	2,4-Dinitrophenol	Not Detected	200000	Z	100
121-14-2	2,4-Dinitrotoluene	Not Detected	30000		100
606-20-2	2,6-Dinitrotoluene	Not Detected	30000		100
91-58-7	2-Chloronaphthalene	Not Detected	24000		100
95-57-8	2-Chlorophenol	Not Detected	39000		100
534-52-1	2-Methyl-4,6-dinitrophenol	Not Detected	200000	Z	100
91-57-6	2-Methylnaphthalene	Not Detected	30000		100
95-48-7	2-Methylphenol (o-Cresol)	Not Detected	39000		100
88-74-4	2-Nitroaniline	Not Detected	59000		100
88-75-5	2-Nitrophenol	Not Detected	39000		100
108394,106445	3 & 4-Methylphenol	Not Detected	78000		100
99-09-2	3-Nitroaniline	Not Detected	59000		100
101-55-3	4-Bromophenyl phenyl ether	Not Detected	24000		100
59-50-7	4-Chloro-3-methyl-phenol	Not Detected	24000		100
7005-72-3	4-Chlorodiphenylether	Not Detected	12000		100
100-01-6	4-Nitroaniline	Not Detected	59000		100
100-02-7	4-Nitrophenol	Not Detected	200000	Z	100
83-32-9	Acenaphthene	Not Detected	12000		100
208-96-8	Acenaphthylene	Not Detected	12000		100
120-12-7	Anthracene	Not Detected	12000		100
103-33-3	Azobenzene	Not Detected	24000		100
56-55-3	Benzo[a]anthracene	15000	12000		100
50-32-8	Benzo[a]pyrene	Not Detected	24000		100
205-99-2	Benzo[b]fluoranthene	18000	24000	T	100
191-24-2	Benzo[g,h,i]perylene	Not Detected	24000		100
207-08-9	Benzo[k]fluoranthene	Not Detected	24000		100
100-51-6	Benzyl Alcohol	Not Detected	300000		100
111-91-1	Bis(2-chloroethoxy)methane	Not Detected	24000		100
111-44-4	Bis(2-chloroethyl)ether	Not Detected	12000		100

CAS #: Chemical Abstract Service Registry Number
RL: Reporting Limit
ND: Not Detected

ug/L: microgram / liter (ppb)
mg/L: milligram / liter (ppm)
ug/Kg: microgram / kilogram (ppb)
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Sample Number: AB73274 SS-06

Base Neutral Acid Compounds

Analytical Method: 8270 Date Tested: 05/13/2011 Analyst: SMH
Extraction Method: 3545 Extraction Date: 05/05/2011 Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
108-60-1	Bis(2-chloroisopropyl)ether	Not Detected	12000		100
117-81-7	Bis(2-ethylhexyl)phthalate	Not Detected	30000		100
85-68-7	Butyl benzyl phthalate	Not Detected	30000		100
86-74-8	Carbazole	Not Detected	30000		100
218-01-9	Chrysene	16000	12000		100
53-70-3	Dibenz[a,h]anthracene	Not Detected	24000		100
132-64-9	Dibenzofuran	Not Detected	30000		100
84-66-2	Diethylphthalate	Not Detected	30000		100
131-11-3	Dimethyl phthalate	Not Detected	30000		100
84-74-2	Di-n-butyl phthalate	Not Detected	30000		100
117-84-0	Di-n-octyl phthalate	Not Detected	30000		100
206-44-0	Fluoranthene	26000	12000		100
86-73-7	Fluorene	Not Detected	12000		100
118-74-1	Hexachlorobenzene	Not Detected	24000		100
87-68-3	Hexachlorobutadiene	Not Detected	12000	Z	100
77-47-4	Hexachlorocyclopentadiene	Not Detected	120000	Z	100
67-72-1	Hexachloroethane	Not Detected	12000		100
193-39-5	Indeno(1,2,3-c,d)pyrene	Not Detected	24000		100
78-59-1	Isophorone	Not Detected	12000		100
91-20-3	Naphthalene	Not Detected	12000		100
98-95-3	Nitrobenzene	Not Detected	24000		100
67-75-9	N-Nitrosodimethylamine	Not Detected	30000		100
621-64-7	N-Nitrosodi-n-propylamine	Not Detected	24000		100
86-30-6	N-Nitrosodiphenylamine	Not Detected	24000		100
87-86-5	Pentachlorophenol	Not Detected	200000	Z-800	100
85-01-8	Phenanthrene	21000	12000		100
108-95-2	Phenol	Not Detected	39000		100
129-00-0	Pyrene	36000	12000		100

Probable petroleum product(s) present.

RLs raised due to matrix interference.

Volatile Compounds

Analytical Method: 8260 Date Tested: 05/06/2011 Analyst: SJR
Extraction Method: 5035 Extraction Date: 05/06/2011 Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
	##Weight of sample(grams)	8.79			
SURROGATE	#Bromofluorobenzene#	137			
SURROGATE	#Dibromofluoromethane#	161			

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
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Sample Number: AB73274 SS-06

Volatile Compounds

Analytical Method: 8260
Extraction Method: 5035

Date Tested: 05/06/2011
Extraction Date: 05/06/2011

Analyst: SJR
Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
SURROGATE	#Toluene-d8#	151			
630-20-6	1,1,1,2-Tetrachloroethane	Not Detected	77		50
71-55-6	1,1,1-Trichloroethane	Not Detected	77		50
79-34-5	1,1,2,2-Tetrachloroethane	Not Detected	77		50
79-00-5	1,1,2-Trichloroethane	Not Detected	77		50
75-34-3	1,1-Dichloroethane	Not Detected	77		50
75-35-4	1,1-Dichloroethylene	Not Detected	77		50
87-61-6	1,2,3-Trichlorobenzene	Not Detected	380	7	50
96-18-4	1,2,3-Trichloropropane	Not Detected	77		50
526-73-8	1,2,3-Trimethylbenzene	Not Detected	77		50
120-82-1	1,2,4-Trichlorobenzene	Not Detected	380		50
95-63-6	1,2,4-Trimethylbenzene	Not Detected	77		50
96-12-8	1,2-Dibromo-3-chloropropane	Not Detected	380		50
106-93-4	1,2-Dibromoethane	Not Detected	77	Z	50
95-50-1	1,2-Dichlorobenzene	Not Detected	77		50
107-06-2	1,2-Dichloroethane	Not Detected	77		50
78-87-5	1,2-Dichloropropane	Not Detected	77		50
108-67-8	1,3,5-Trimethylbenzene	Not Detected	77		50
541-73-1	1,3-Dichlorobenzene	Not Detected	77		50
106-46-7	1,4-Dichlorobenzene	Not Detected	77		50
78-93-3	2-Butanone (MEK)	Not Detected	380		50
591-78-6	2-Hexanone	Not Detected	380		50
91-57-6	2-Methylnaphthalene	Not Detected	380	X-7	50
67-64-1	2-Propanone (acetone)	Not Detected	1500	7	50
108-10-1	4-Methyl-2-pentanone (MIBK)	Not Detected	380		50
107-13-1	Acrylonitrile	Not Detected	380	Z	50
71-43-2	Benzene	Not Detected	77		50
108-86-1	Bromobenzene	Not Detected	77		50
74-97-5	Bromochloromethane	Not Detected	77		50
75-27-4	Bromodichloromethane	Not Detected	77		50
75-25-2	Bromoform	Not Detected	77		50
74-83-9	Bromomethane	Not Detected	310	5	50
75-15-0	Carbon disulfide	Not Detected	77		50
56-23-5	Carbon tetrachloride	Not Detected	77		50
108-90-7	Chlorobenzene	Not Detected	77		50
75-00-3	Chloroethane	Not Detected	380		50
67-66-3	Chloroform	Not Detected	77		50
74-87-3	Chloromethane	Not Detected	380		50
156-59-2	cis-1,2-Dichloroethylene	Not Detected	77		50
10061-01-5	cis-1,3-Dichloropropylene	Not Detected	77		50

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Sample Number: AB73274 SS-06

Volatile Compounds

Analytical Method: 8260
Extraction Method: 5035

Date Tested: 05/06/2011
Extraction Date: 05/06/2011

Analyst: SJR
Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
110-82-7	Cyclohexane	Not Detected	380		50
124-48-1	Dibromochloromethane	Not Detected	77		50
74-95-3	Dibromomethane	Not Detected	77		50
75-71-8	Dichlorodifluoromethane	Not Detected	380		50
60-29-7	Diethyl ether	Not Detected	310		50
108-20-3	Diisopropyl Ether	Not Detected	380		50
100-41-4	Ethylbenzene	Not Detected	77		50
637-92-3	Ethyltertiarybutylether	Not Detected	380		50
67-72-1	Hexachloroethane	Not Detected	380		50
98-82-8	Isopropylbenzene	Not Detected	77		50
108383,106423	m & p - Xylene	Not Detected	150		50
74-88-4	Methyl iodide	Not Detected	77		50
75-09-2	Methylene chloride	Not Detected	150		50
1634-04-4	Methyltertiarybutylether	Not Detected	77		50
91-20-3	Naphthalene	Not Detected	380	X 7	50
104-51-8	n-Butylbenzene	Not Detected	77		50
103-65-1	n-Propylbenzene	Not Detected	77		50
95-47-6	o-Xylene	Not Detected	77		50
99-87-6	p-Isopropyl toluene	Not Detected	77		50
135-98-8	sec-Butylbenzene	Not Detected	77		50
100-42-5	Styrene	Not Detected	77		50
98-06-6	tert-Butylbenzene	Not Detected	77		50
75-65-0	tertiary Butyl Alcohol	Not Detected	3800		50
994-05-8	tertiary Amyl methyl ether	Not Detected	380		50
127-18-4	Tetrachloroethylene	Not Detected	77		50
109-99-9	Tetrahydrofuran	Not Detected	380		50
108-88-3	Toluene	Not Detected	77		50
156-60-5	trans-1,2-Dichloroethylene	Not Detected	77		50
10061-02-6	trans-1,3-Dichloropropylene	Not Detected	77		50
110-57-6	trans-1,4-Dichloro-2-butene	Not Detected	380	Z	50
79-01-6	Trichloroethylene	Not Detected	77		50
75-69-4	Trichlorofluoromethane	Not Detected	77		50
75-01-4	Vinyl chloride	Not Detected	77	Z	50

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ug / Kg : microgram / kilogram (ppb)
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Sample Number: AB73274 SS-06

CAS#	Analyte Name	Result	Unit	RL	Qualifier	Date Tested	Method	Analyst
57-12-5	Cyanide - Sediment	1	mg/Kg dry	0.1		05/11/2011	ASTM D 751	MB
	Cyanide-Extraction	Completed				05/10/2011	9013	MB
	Digest Mercury - Sediment	Completed				05/11/2011	7471	TS
7439-97-6	Mercury - Sediment	37	mg/Kg dry	0.05		05/12/2011	7471	TS
7440-36-0	Antimony - Sediment	8.1	mg/Kg dry	0.3		05/21/2011	6020	KS
7440-38-2	Arsenic - Sediment	15	mg/Kg dry	0.5		05/18/2011	6020	KS
7440-39-3	Barium - Sediment	790	mg/Kg dry	1		05/18/2011	6020	KS
7440-41-7	Beryllium - Sediment	1.1	mg/Kg dry	0.2		05/18/2011	6020	KS
7440-43-9	Cadmium - Sediment	3.2	mg/Kg dry	0.2		05/18/2011	6020	KS
7440-47-3	Chromium - Sediment	31	mg/Kg dry	2		05/18/2011	6020	KS
7440-48-4	Cobalt - Sediment	8.1	mg/Kg dry	.5		05/18/2011	6020	KS
7440-50-8	Copper - Sediment	120	mg/Kg dry	1		05/18/2011	6020	KS
	Digest Antimony - Sediment	Completed				05/20/2011	3050	WN
	Digest Metals - Sediment	Completed				05/17/2011	3050	WN
7439-89-6	Iron - Sediment	27000	mg/Kg dry	50	D	05/25/2011	6010	WN
7439-92-1	Lead - Sediment	900	mg/Kg dry	1		05/18/2011	6020	KS
7439-96-5	Manganese - Sediment	380	mg/Kg dry	1		05/18/2011	6020	KS
7439-98-7	Molybdenum - Sediment	6.9	mg/Kg dry	1		05/18/2011	6020	KS
7440-02-0	Nickel - Sediment	38	mg/Kg dry	1		05/18/2011	6020	KS
7782-49-2	Selenium - Sediment	2.0	mg/Kg dry	0.2		05/18/2011	6020	KS
7440-22-4	Silver - Sediment	1.3	mg/Kg dry	0.1		05/18/2011	6020	KS
7440-28-0	Thallium - Sediment	ND	mg/Kg dry	0.5		05/18/2011	6020	KS
7440-62-2	Vanadium - Sediment	17	mg/Kg dry	1		05/18/2011	6020	KS
7440-66-6	Zinc - Sediment	1400	mg/Kg dry	1		05/18/2011	6020	KS
	% Total Solids	84.4	%	0.1		05/14/2011	2540B SM	KS
	Drying and Grinding - Sediment	COMPLETE				05/14/2011		KS
	Gel Permeation Cleanup-Pesticide/PCI	Completed				05/10/2011	3640	DT
	Gel Permeation Cleanup-SVOC Analy	Completed				05/05/2011	3640	DT

CAS# : Chemical Abstract Service Registry Number
 RL : Reporting Limit
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ug / L : microgram / liter (ppb)
 mg / L : milligram / liter (ppm)
 ug / Kg : microgram / kilogram (ppb)
 mg / Kg : milligram / kilogram (ppm)

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Sample Number: AB73275 SS-07

Pesticides and PCBs

Analytical Method: 8081,8082
Extraction Method: 3545

Date Tested: 05/15/2011
Extraction Date: 05/06/2011

Analyst: MF
Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
SURROGATE	#Decachlorobiphenyl#	52.8			
SURROGATE	#Tetrachloro-m-xylene#	101			
72-54-8	4,4'-DDD	1800	500		20
72-55-9	4,4'-DDE	1800	500		20
50-29-3	4,4'-DDT	7800	5000		200
319-84-6	a-BHC	Not Detected	250		20
5103-71-9	a-Chlordane	Not Detected	500		20
309-00-2	Aldrin	Not Detected	500		20
12674-11-2	Aroclor 1016	Not Detected	2500		20
11104-28-2	Aroclor 1221	Not Detected	2500		20
11141-16-5	Aroclor 1232	Not Detected	2500		20
53469-21-9	Aroclor 1242	Not Detected	2500		20
12672-29-6	Aroclor 1248	Not Detected	2500		20
11097-69-1	Aroclor 1254	Not Detected	2500		20
11096-82-5	Aroclor 1260	Not Detected	2500		20
37324-23-5	Aroclor 1262	Not Detected	2500		20
11100-14-4	Aroclor 1268	Not Detected	2500		20
319-85-7	b-BHC	Not Detected	500		20
319-86-8	d-BHC	Not Detected	500		20
60-57-1	Dieldrin	Not Detected	500		20
959-98-8	Endosulfan I	Not Detected	500		20
33213-65-9	Endosulfan II	Not Detected	500		20
1031-07-8	Endosulfan sulfate	Not Detected	500		20
72-20-8	Endrin	Not Detected	500		20
7421-93-4	Endrin aldehyde	Not Detected	500		20
53494-70-5	Endrin ketone	Not Detected	500		20
58-89-9	g-BHC (Lindane)	Not Detected	500		20
5103-74-2	g-Chlordane	Not Detected	500		20
76-44-8	Heptachlor	Not Detected	500		20
1024-57-3	Heptachlor epoxide	Not Detected	500		20
87-82-1	Hexabromobenzene	Not Detected	2500		20
72-43-5	Methoxychlor	Not Detected	1200		20
2385-85-5	Mirex	Not Detected	1200		20
59080-40-9	PBB (BP-6)	Not Detected	6200		20
8001-35-2	Toxaphene	Not Detected	4200		20

RLs raised due to matrix interference.

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

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ug / Kg : microgram / kilogram (ppb)
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Sample Number: AB73275 SS-07

Base Neutral Acid Compounds

Analytical Method: 8270 Date Tested: 05/17/2011 Analyst: SMH
Extraction Method: 3545 Extraction Date: 05/05/2011 Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
SURROGATE	#2- Fluorobiphenyl#	66.8			
SURROGATE	#2,4,6-Tribromophenol#	48.6			
SURROGATE	#2-Fluorophenol#	51.8			
SURROGATE	#Nitrobenzene - D5#	55.6			
SURROGATE	#Phenol - D6#	50.6			
SURROGATE	#p-Terphenyl-d14#	66.4			
120-82-1	1,2,4-Trichlorobenzene	Not Detected	5000		20
95-95-4	2,4,5-Trichlorophenol	Not Detected	8200		20
88-06-2	2,4,6-Trichlorophenol	Not Detected	8200		20
120-83-2	2,4-Dichlorophenol	Not Detected	8200		20
105-67-9	2,4-Dimethylphenol	Not Detected	8200		20
51-28-5	2,4-Dinitrophenol	Not Detected	42000	Z	20
121-14-2	2,4-Dinitrotoluene	Not Detected	6200		20
606-20-2	2,6-Dinitrotoluene	Not Detected	6200		20
91-58-7	2-Chloronaphthalene	Not Detected	5000		20
95-57-8	2-Chlorophenol	Not Detected	8200		20
534-52-1	2-Methyl-4,6-dinitrophenol	Not Detected	42000	Z	20
91-57-6	2-Methylnaphthalene	Not Detected	6200		20
95-48-7	2-Methylphenol (o-Cresol)	Not Detected	8200		20
88-74-4	2-Nitroaniline	Not Detected	12000		20
88-75-5	2-Nitrophenol	Not Detected	8200		20
108394,106445	3 & 4-Methylphenol	Not Detected	16000		20
99-09-2	3-Nitroaniline	Not Detected	12000		20
101-55-3	4-Bromophenyl phenyl ether	Not Detected	5000		20
59-50-7	4-Chloro-3-methyl-phenol	Not Detected	5000		20
7005-72-3	4-Chlorodiphenylether	Not Detected	2500		20
100-01-6	4-Nitroaniline	Not Detected	12000		20
100-02-7	4-Nitrophenol	Not Detected	42000	Z	20
83-32-9	Acenaphthene	Not Detected	2500		20
208-96-8	Acenaphthylene	Not Detected	2500		20
120-12-7	Anthracene	3100	2500		20
103-33-3	Azobenzene	Not Detected	5000		20
56-55-3	Benzo[a]anthracene	17000	2500		20
50-32-8	Benzo[a]pyrene	17000	5000		20
205-99-2	Benzo[b]fluoranthene	25000	5000		20
191-24-2	Benzo[ghi]perylene	Not Detected	5000		20
207-08-9	Benzo[k]fluoranthene	8200	5000		20
100-51-6	Benzyl Alcohol	Not Detected	62000		20
111-91-1	Bis(2-chloroethoxy)methane	Not Detected	5000		20
111-44-4	Bis(2-chloroethyl)ether	Not Detected	2500		20

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ug / Kg : microgram / kilogram (ppb)
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Sample Number: AB73275 SS-07

Base Neutral Acid Compounds

Analytical Method: 8270 Date Tested: 05/17/2011 Analyst: SMH
Extraction Method: 3545 Extraction Date: 05/05/2011 Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
108-60-1	Bis(2-chloroisopropyl)ether	Not Detected	2500		20
117-81-7	Bis(2-ethylhexyl)phthalate	Not Detected	6200		20
85-68-7	Butyl benzyl phthalate	Not Detected	6200		20
86-74-8	Carbazole	Not Detected	6200		20
218-01-9	Chrysene	19000	2500		20
53-70-3	Dibenz[a,h]anthracene	Not Detected	5000	5	20
132-64-9	Dibenzofuran	Not Detected	6200		20
84-66-2	Diethylphthalate	Not Detected	6200		20
131-11-3	Dimethyl phthalate	Not Detected	6200		20
84-74-2	Di-n-butyl phthalate	Not Detected	6200		20
117-84-0	Di-n-octyl phthalate	Not Detected	6200		20
206-44-0	Fluoranthene	32000	2500		20
86-73-7	Fluorene	Not Detected	2500		20
118-74-1	Hexachlorobenzene	Not Detected	5000		20
87-68-3	Hexachlorobutadiene	Not Detected	2500	Z	20
77-47-4	Hexachlorocyclopentadiene	Not Detected	25000	Z	20
67-72-1	Hexachloroethane	Not Detected	2500		20
193-39-5	Indeno(1,2,3-c,d)pyrene	8300	5000		20
78-59-1	Isophorone	Not Detected	2500		20
91-20-3	Naphthalene	Not Detected	2500		20
98-95-3	Nitrobenzene	Not Detected	5000		20
67-75-9	N-Nitrosodimethylamine	Not Detected	6200		20
621-64-7	N-Nitrosodi-n-propylamine	Not Detected	5000		20
86-30-6	N-Nitrosodiphenylamine	Not Detected	5000		20
87-86-5	Pentachlorophenol	Not Detected	42000	Z=800	20
85-01-8	Phenanthrene	15000	2500		20
108-95-2	Phenol	Not Detected	8200		20
129-00-0	Pyrene	30000	2500		20

RLs raised due to matrix.

Probable petroleum product(s) present.

Volatile Compounds

Analytical Method: 8260 Date Tested: 05/06/2011 Analyst: SJR
Extraction Method: 5035 Extraction Date: 05/06/2011 Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
	##Weight of sample(grams)	9.56			
SURROGATE	#Bromofluorobenzene#	135			
SURROGATE	#Dibromofluoromethane#	148			

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
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Sample Number: AB73275 SS-07

Volatile Compounds

Analytical Method: 8260
Extraction Method: 5035

Date Tested: 05/06/2011
Extraction Date: 05/06/2011

Analyst: SJR
Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
SURROGATE	#Toluene-d8#	145			
630-20-6	1,1,1,2-Tetrachloroethane	Not Detected	77		50
71-55-6	1,1,1-Trichloroethane	Not Detected	77		50
79-34-5	1,1,2,2-Tetrachloroethane	Not Detected	77		50
79-00-5	1,1,2-Trichloroethane	Not Detected	77		50
75-34-3	1,1-Dichloroethane	Not Detected	77		50
75-35-4	1,1-Dichloroethylene	Not Detected	77		50
87-61-6	1,2,3-Trichlorobenzene	Not Detected	380	7	50
96-18-4	1,2,3-Trichloropropane	Not Detected	77		50
526-73-8	1,2,3-Trimethylbenzene	Not Detected	77		50
120-82-1	1,2,4-Trichlorobenzene	Not Detected	380		50
95-63-6	1,2,4-Trimethylbenzene	100	77		50
96-12-8	1,2-Dibromo-3-chloropropane	Not Detected	380		50
106-93-4	1,2-Dibromoethane	Not Detected	77	Z	50
95-50-1	1,2-Dichlorobenzene	Not Detected	77		50
107-06-2	1,2-Dichloroethane	Not Detected	77		50
78-87-5	1,2-Dichloropropane	Not Detected	77		50
108-67-8	1,3,5-Trimethylbenzene	Not Detected	77		50
541-73-1	1,3-Dichlorobenzene	Not Detected	77		50
106-46-7	1,4-Dichlorobenzene	Not Detected	77		50
78-93-3	2-Butanone (MEK)	Not Detected	380		50
591-78-6	2-Hexanone	Not Detected	380		50
91-57-6	2-Methylnaphthalene	Not Detected	380	X-7	50
67-64-1	2-Propanone (acetone)	Not Detected	1500	7	50
108-10-1	4-Methyl-2-pentanone (MIBK)	Not Detected	380		50
107-13-1	Acrylonitrile	Not Detected	380	Z	50
71-43-2	Benzene	Not Detected	77		50
108-86-1	Bromobenzene	Not Detected	77		50
74-97-5	Bromochloromethane	Not Detected	77		50
75-27-4	Bromodichloromethane	Not Detected	77		50
75-25-2	Bromoform	Not Detected	77		50
74-83-9	Bromomethane	Not Detected	310	5	50
75-15-0	Carbon disulfide	Not Detected	77		50
56-23-5	Carbon tetrachloride	Not Detected	77		50
108-90-7	Chlorobenzene	Not Detected	77		50
75-00-3	Chloroethane	Not Detected	380		50
67-66-3	Chloroform	Not Detected	77		50
74-87-3	Chloromethane	Not Detected	380		50
156-59-2	cis-1,2-Dichloroethylene	Not Detected	77		50
10061-01-5	cis-1,3-Dichloropropylene	Not Detected	77		50

CAS# : Chemical Abstract Service Registry Number
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Sample Number: AB73275 SS-07

Volatile Compounds

Analytical Method: 8260
Extraction Method: 5035

Date Tested: 05/06/2011
Extraction Date: 05/06/2011

Analyst: SJR
Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
110-82-7	Cyclohexane	Not Detected	380		50
124-48-1	Dibromochloromethane	Not Detected	77		50
74-95-3	Dibromomethane	Not Detected	77		50
75-71-8	Dichlorodifluoromethane	Not Detected	380		50
60-29-7	Diethyl ether	Not Detected	310		50
108-20-3	Diisopropyl Ether	Not Detected	380		50
100-41-4	Ethylbenzene	Not Detected	77		50
637-92-3	Ethyltertiarybutylether	Not Detected	380		50
67-72-1	Hexachloroethane	Not Detected	380		50
98-82-8	Isopropylbenzene	Not Detected	77		50
108383,106423	m & p - Xylene	Not Detected	150		50
74-88-4	Methyl iodide	Not Detected	77		50
75-09-2	Methylene chloride	Not Detected	150		50
1634-04-4	Methyltertiarybutylether	Not Detected	77		50
91-20-3	Naphthalene	Not Detected	380	X 7	50
104-51-8	n-Butylbenzene	Not Detected	77		50
103-65-1	n-Propylbenzene	Not Detected	77		50
95-47-6	o-Xylene	Not Detected	77		50
99-87-6	p-Isopropyl toluene	Not Detected	77		50
135-98-8	sec-Butylbenzene	Not Detected	77		50
100-42-5	Styrene	Not Detected	77		50
98-06-6	tert-Butylbenzene	Not Detected	77		50
75-65-0	tertiary Butyl Alcohol	Not Detected	3800		50
994-05-8	tertiary Amyl methyl ether	Not Detected	380		50
127-18-4	Tetrachloroethylene	Not Detected	77		50
109-99-9	Tetrahydrofuran	Not Detected	380		50
108-88-3	Toluene	Not Detected	77		50
156-60-5	trans-1,2-Dichloroethylene	Not Detected	77		50
10061-02-6	trans-1,3-Dichloropropylene	Not Detected	77		50
110-57-6	trans-1,4-Dichloro-2-butene	Not Detected	380	Z	50
79-01-6	Trichloroethylene	Not Detected	77		50
75-69-4	Trichlorofluoromethane	Not Detected	77		50
75-01-4	Vinyl chloride	Not Detected	77	Z	50

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Sample Number: AB73275 SS-07

CAS#	Analyte Name	Result	Unit	RL	Qualifier	Date Tested	Method	Analyst
57-12-5	Cyanide - Sediment	4	mg/Kg dry	0.1		05/11/2011	ASTM D 751	MB
	Cyanide-Extraction	Completed				05/10/2011	9013	MB
	Digest Mercury - Sediment	Completed				05/11/2011	7471	TS
7439-97-6	Mercury - Sediment	50	mg/Kg dry	0.05		05/12/2011	7471	TS
7440-36-0	Antimony - Sediment	8.6	mg/Kg dry	0.3		05/21/2011	6020	KS
7440-38-2	Arsenic - Sediment	15	mg/Kg dry	0.5		05/18/2011	6020	KS
7440-39-3	Barium - Sediment	830	mg/Kg dry	1		05/18/2011	6020	KS
7440-41-7	Beryllium - Sediment	0.69	mg/Kg dry	0.2		05/18/2011	6020	KS
7440-43-9	Cadmium - Sediment	4.6	mg/Kg dry	0.2		05/18/2011	6020	KS
7440-47-3	Chromium - Sediment	390	mg/Kg dry	2		05/18/2011	6020	KS
7440-48-4	Cobalt - Sediment	65	mg/Kg dry	.5		05/18/2011	6020	KS
7440-50-8	Copper - Sediment	160	mg/Kg dry	1		05/18/2011	6020	KS
	Digest Antimony - Sediment	Completed				05/20/2011	3050	WN
	Digest Metals - Sediment	Completed				05/17/2011	3050	WN
7439-89-6	Iron - Sediment	56000	mg/Kg dry	500	D	05/25/2011	6010	WN
7439-92-1	Lead - Sediment	1400	mg/Kg dry	1		05/18/2011	6020	KS
7439-96-5	Manganese - Sediment	510	mg/Kg dry	1		05/18/2011	6020	KS
7439-98-7	Molybdenum - Sediment	33	mg/Kg dry	1		05/18/2011	6020	KS
7440-02-0	Nickel - Sediment	50	mg/Kg dry	1		05/18/2011	6020	KS
7782-49-2	Selenium - Sediment	1.7	mg/Kg dry	0.2		05/18/2011	6020	KS
7440-22-4	Silver - Sediment	1.9	mg/Kg dry	0.1		05/18/2011	6020	KS
7440-28-0	Thallium - Sediment	ND	mg/Kg dry	0.5		05/18/2011	6020	KS
7440-62-2	Vanadium - Sediment	15	mg/Kg dry	1		05/19/2011	6020	KS
7440-66-6	Zinc - Sediment	760	mg/Kg dry	1		05/18/2011	6020	KS
	% Total Solids	80.6	%	0.1		05/14/2011	2540B SM	KS
	Drying and Grinding - Sediment	COMPLETE				05/14/2011		KS
	Gel Permeation Cleanup-Pesticide/PCI	Completed				05/10/2011	3640	DT
	Gel Permeation Cleanup-SVOC Analy	Completed				05/05/2011	3640	DT

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Sample Number: AB73276 SS-08

Pesticides and PCBs

Analytical Method: 8081,8082
 Extraction Method: 3545

Date Tested: 05/12/2011
 Extraction Date: 05/06/2011

Analyst: MF
 Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
SURROGATE	#Decachlorobiphenyl#	46.3			
SURROGATE	#Tetrachloro-m-xylene#	83.8			
72-54-8	4,4'-DDD	36	24		1.0
72-55-9	4,4'-DDE	74	24		1.0
50-29-3	4,4'-DDT	86	24		1.0
319-84-6	a-BHC	Not Detected	12		1.0
5103-71-9	a-Chlordane	Not Detected	24		1.0
309-00-2	Aldrin	Not Detected	24		1.0
12674-11-2	Aroclor 1016	Not Detected	120		1.0
11104-28-2	Aroclor 1221	Not Detected	120		1.0
11141-16-5	Aroclor 1232	Not Detected	120		1.0
53469-21-9	Aroclor 1242	Not Detected	120		1.0
12672-29-6	Aroclor 1248	Not Detected	120		1.0
11097-69-1	Aroclor 1254	Not Detected	120		1.0
11096-82-5	Aroclor 1260	Not Detected	120		1.0
37324-23-5	Aroclor 1262	Not Detected	120		1.0
11100-14-4	Aroclor 1268	Not Detected	120		1.0
319-85-7	b-BHC	Not Detected	24		1.0
319-86-8	d-BHC	Not Detected	24		1.0
60-57-1	Dieldrin	Not Detected	24		1.0
959-98-8	Endosulfan I	Not Detected	24		1.0
33213-65-9	Endosulfan II	Not Detected	24		1.0
1031-07-8	Endosulfan sulfate	Not Detected	24		1.0
72-20-8	Endrin	Not Detected	24		1.0
7421-93-4	Endrin aldehyde	Not Detected	24		1.0
53494-70-5	Endrin ketone	Not Detected	24		1.0
58-89-9	g-BHC (Lindane)	Not Detected	24		1.0
5103-74-2	g-Chlordane	Not Detected	24		1.0
76-44-8	Heptachlor	Not Detected	24		1.0
1024-57-3	Heptachlor epoxide	Not Detected	24		1.0
87-82-1	Hexabromobenzene	Not Detected	120		1.0
72-43-5	Methoxychlor	Not Detected	59		1.0
2385-85-5	Mirex	Not Detected	59		1.0
59080-40-9	PBB (BP-6)	Not Detected	290		1.0
8001-35-2	Toxaphene	Not Detected	200		1.0

CAS# : Chemical Abstract Service Registry Number
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 mg / L : milligram / liter (ppm)
 ug / Kg : microgram / kilogram (ppb)
 mg / Kg : milligram / kilogram (ppm)

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Sample Number: AB73276 SS-08

Base Neutral Acid Compounds

Analytical Method: 8270 Date Tested: 05/15/2011 Analyst: SMH
Extraction Method: 3545 Extraction Date: 05/09/2011 Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
SURROGATE	#2-Fluorobiphenyl#	91.1			
SURROGATE	#2,4,6-Tribromophenol#	78.0			
SURROGATE	#2-Fluorophenol#	49.9			
SURROGATE	#Nitrobenzene - D5#	61.8			
SURROGATE	#Phenol - D6#	43.7			
SURROGATE	#p-Terphenyl-d14#	117			
120-82-1	1,2,4-Trichlorobenzene	Not Detected	470		2.0
95-95-4	2,4,5-Trichlorophenol	Not Detected	780		2.0
88-06-2	2,4,6-Trichlorophenol	Not Detected	780		2.0
120-83-2	2,4-Dichlorophenol	Not Detected	780		2.0
105-67-9	2,4-Dimethylphenol	Not Detected	780		2.0
51-28-5	2,4-Dinitrophenol	Not Detected	4000	Z	2.0
121-14-2	2,4-Dinitrotoluene	Not Detected	590		2.0
606-20-2	2,6-Dinitrotoluene	Not Detected	590		2.0
91-58-7	2-Chloronaphthalene	Not Detected	470		2.0
95-57-8	2-Chlorophenol	Not Detected	780		2.0
534-52-1	2-Methyl-4,6-dinitrophenol	Not Detected	4000	Z	2.0
91-57-6	2-Methylnaphthalene	Not Detected	590		2.0
95-48-7	2-Methylphenol (o-Cresol)	Not Detected	780		2.0
88-74-4	2-Nitroaniline	Not Detected	1200		2.0
88-75-5	2-Nitrophenol	Not Detected	780		2.0
108394,106445	3 & 4-Methylphenol	Not Detected	1600		2.0
99-09-2	3-Nitroaniline	Not Detected	1200	3	2.0
101-55-3	4-Bromophenyl phenyl ether	Not Detected	470		2.0
59-50-7	4-Chloro-3-methyl-phenol	Not Detected	470		2.0
7005-72-3	4-Chlorodiphenylether	Not Detected	240		2.0
100-01-6	4-Nitroaniline	Not Detected	1200		2.0
100-02-7	4-Nitrophenol	Not Detected	4000	Z	2.0
83-32-9	Acenaphthene	Not Detected	240		2.0
208-96-8	Acenaphthylene	Not Detected	240		2.0
120-12-7	Anthracene	Not Detected	240		2.0
103-33-3	Azobenzene	Not Detected	470		2.0
56-55-3	Benzo[a]anthracene	Not Detected	240		2.0
50-32-8	Benzo[a]pyrene	Not Detected	470		2.0
205-99-2	Benzo[b]fluoranthene	Not Detected	470		2.0
191-24-2	Benzo[ghi]perylene	Not Detected	470		2.0
207-08-9	Benzo[k]fluoranthene	Not Detected	470		2.0
100-51-6	Benzyl Alcohol	Not Detected	5900		2.0
111-91-1	Bis(2-chloroethoxy)methane	Not Detected	470		2.0
111-44-4	Bis(2-chloroethyl)ether	Not Detected	240		2.0

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mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
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Sample Number: AB73276 SS-08

Base Neutral Acid Compounds

Analytical Method: 8270 Date Tested: 05/15/2011 Analyst: SMH
Extraction Method: 3545 Extraction Date: 05/09/2011 Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
108-60-1	Bis(2-chloroisopropyl)ether	Not Detected	240		2.0
117-81-7	Bis(2-ethylhexyl)phthalate	Not Detected	590		2.0
85-68-7	Butyl benzyl phthalate	Not Detected	590		2.0
86-74-8	Carbazole	Not Detected	590		2.0
218-01-9	Chrysene	Not Detected	240		2.0
53-70-3	Dibenz[a,h]anthracene	Not Detected	470		2.0
132-64-9	Dibenzofuran	Not Detected	590		2.0
84-66-2	Diethylphthalate	Not Detected	590		2.0
131-11-3	Dimethyl phthalate	Not Detected	590		2.0
84-74-2	Di-n-butyl phthalate	Not Detected	590		2.0
117-84-0	Di-n-octyl phthalate	Not Detected	590		2.0
206-44-0	Fluoranthene	250	240		2.0
86-73-7	Fluorene	Not Detected	240		2.0
118-74-1	Hexachlorobenzene	Not Detected	470		2.0
87-68-3	Hexachlorobutadiene	Not Detected	240	Z	2.0
77-47-4	Hexachlorocyclopentadiene	Not Detected	2400	Z	2.0
67-72-1	Hexachloroethane	Not Detected	240		2.0
193-39-5	Indeno(1,2,3-c,d)pyrene	Not Detected	470		2.0
78-59-1	Isophorone	Not Detected	240		2.0
91-20-3	Naphthalene	Not Detected	240		2.0
98-95-3	Nitrobenzene	Not Detected	470		2.0
67-75-9	N-Nitrosodimethylamine	Not Detected	590		2.0
621-64-7	N-Nitrosodi-n-propylamine	Not Detected	470		2.0
86-30-6	N-Nitrosodiphenylamine	Not Detected	470		2.0
87-86-5	Pentachlorophenol	Not Detected	4000	Z=800	2.0
85-01-8	Phenanthrene	Not Detected	240		2.0
108-95-2	Phenol	Not Detected	780		2.0
129-00-0	Pyrene	450	240		2.0

RLs raised due to matrix.

Probable petroleum product(s) present.

Volatile Compounds

Analytical Method: 8260 Date Tested: 05/06/2011 Analyst: SJR
Extraction Method: 5035 Extraction Date: 05/06/2011 Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
	##Weight of sample(grams)	9.53			
SURROGATE	#Bromofluorobenzene#	133			
SURROGATE	#Dibromofluoromethane#	151			

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

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Sample Number: AB73276 SS-08

Volatile Compounds

Analytical Method: 8260
Extraction Method: 5035

Date Tested: 05/06/2011
Extraction Date: 05/06/2011

Analyst: SJR
Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
SURROGATE	#Toluene-d8#	141			
630-20-6	1,1,1,2-Tetrachloroethane	Not Detected	71		50
71-55-6	1,1,1-Trichloroethane	Not Detected	71		50
79-34-5	1,1,2,2-Tetrachloroethane	Not Detected	71		50
79-00-5	1,1,2-Trichloroethane	Not Detected	71		50
75-34-3	1,1-Dichloroethane	Not Detected	71		50
75-35-4	1,1-Dichloroethylene	Not Detected	71		50
87-61-6	1,2,3-Trichlorobenzene	Not Detected	350	7	50
96-18-4	1,2,3-Trichloropropane	Not Detected	71		50
526-73-8	1,2,3-Trimethylbenzene	Not Detected	71		50
120-82-1	1,2,4-Trichlorobenzene	Not Detected	350		50
95-63-6	1,2,4-Trimethylbenzene	Not Detected	71		50
96-12-8	1,2-Dibromo-3-chloropropane	Not Detected	350		50
106-93-4	1,2-Dibromoethane	Not Detected	71	Z	50
95-50-1	1,2-Dichlorobenzene	Not Detected	71		50
107-06-2	1,2-Dichloroethane	Not Detected	71		50
78-87-5	1,2-Dichloropropane	Not Detected	71		50
108-67-8	1,3,5-Trimethylbenzene	Not Detected	71		50
541-73-1	1,3-Dichlorobenzene	Not Detected	71		50
106-46-7	1,4-Dichlorobenzene	Not Detected	71		50
78-93-3	2-Butanone (MEK)	Not Detected	350		50
591-78-6	2-Hexanone	Not Detected	350		50
91-57-6	2-Methylnaphthalene	Not Detected	350	7X	50
67-64-1	2-Propanone (acetone)	Not Detected	1400	7	50
108-10-1	4-Methyl-2-pentanone (MIBK)	Not Detected	350		50
107-13-1	Acrylonitrile	Not Detected	350	Z	50
71-43-2	Benzene	Not Detected	71		50
108-86-1	Bromobenzene	Not Detected	71		50
74-97-5	Bromochloromethane	Not Detected	71		50
75-27-4	Bromodichloromethane	Not Detected	71		50
75-25-2	Bromoform	Not Detected	71		50
74-83-9	Bromomethane	Not Detected	280	5	50
75-15-0	Carbon disulfide	Not Detected	71		50
56-23-5	Carbon tetrachloride	Not Detected	71		50
108-90-7	Chlorobenzene	Not Detected	71		50
75-00-3	Chloroethane	Not Detected	350		50
67-66-3	Chloroform	Not Detected	71		50
74-87-3	Chloromethane	Not Detected	350		50
156-59-2	cis-1,2-Dichloroethylene	Not Detected	71		50
10061-01-5	cis-1,3-Dichloropropylene	Not Detected	71		50

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Sample Number: AB73276 SS-08

Volatile Compounds

Analytical Method: 8260 Date Tested: 05/06/2011 Analyst: SJR
Extraction Method: 5035 Extraction Date: 05/06/2011 Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
110-82-7	Cyclohexane	Not Detected	350		50
124-48-1	Dibromochloromethane	Not Detected	71		50
74-95-3	Dibromomethane	Not Detected	71		50
75-71-8	Dichlorodifluoromethane	Not Detected	350		50
60-29-7	Diethyl ether	Not Detected	280		50
108-20-3	Diisopropyl Ether	Not Detected	350		50
100-41-4	Ethylbenzene	Not Detected	71		50
637-92-3	Ethyl tertiary butyl ether	Not Detected	350		50
67-72-1	Hexachloroethane	Not Detected	350		50
98-82-8	Isopropylbenzene	Not Detected	71		50
108383,106423	m & p - Xylene	Not Detected	140		50
74-88-4	Methyl iodide	Not Detected	71		50
75-09-2	Methylene chloride	Not Detected	140		50
1634-04-4	Methyl tertiary butyl ether	Not Detected	71		50
91-20-3	Naphthalene	Not Detected	350	7 X	50
104-51-8	n-Butylbenzene	Not Detected	71		50
103-65-1	n-Propylbenzene	Not Detected	71		50
95-47-6	o-Xylene	Not Detected	71		50
99-87-6	p-Isopropyl toluene	Not Detected	71		50
135-98-8	sec-Butylbenzene	Not Detected	71		50
100-42-5	Styrene	Not Detected	71		50
98-06-6	tert-Butylbenzene	Not Detected	71		50
75-65-0	tertiary Butyl Alcohol	Not Detected	3500		50
994-05-8	tertiary Amyl methyl ether	Not Detected	350		50
127-18-4	Tetrachloroethylene	Not Detected	71		50
109-99-9	Tetrahydrofuran	Not Detected	350		50
108-88-3	Toluene	Not Detected	71		50
156-60-5	trans-1,2-Dichloroethylene	Not Detected	71		50
10061-02-6	trans-1,3-Dichloropropylene	Not Detected	71		50
110-57-6	trans-1,4-Dichloro-2-butene	Not Detected	350	Z	50
79-01-6	Trichloroethylene	Not Detected	71		50
75-69-4	Trichlorofluoromethane	Not Detected	71		50
75-01-4	Vinyl chloride	Not Detected	71	Z	50

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mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
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Sample Number: AB73276 SS-08

CAS#	Analyte Name	Result	Unit	RL	Qualifier	Date Tested	Method	Analyst
57-12-5	Cyanide - Sediment	ND	mg/Kg dry	0.1		05/11/2011	ASTM D 751	MB
	Cyanide Extraction	Completed				05/10/2011	9013	MB
	Digest Mercury - Sediment	Completed				05/11/2011	7471	TS
7439-97-6	Mercury - Sediment	ND	mg/Kg dry	0.05		05/12/2011	7471	TS
7440-36-0	Antimony - Sediment	0.38	mg/Kg dry	0.3		05/21/2011	6020	KS
7440-38-2	Arsenic - Sediment	5.4	mg/Kg dry	0.5		05/18/2011	6020	KS
7440-39-3	Barium - Sediment	55	mg/Kg dry	1		05/18/2011	6020	KS
7440-41-7	Beryllium - Sediment	0.46	mg/Kg dry	0.2		05/18/2011	6020	KS
7440-43-9	Cadmium - Sediment	0.38	mg/Kg dry	0.2		05/18/2011	6020	KS
7440-47-3	Chromium - Sediment	17	mg/Kg dry	2		05/18/2011	6020	KS
7440-48-4	Cobalt - Sediment	6.3	mg/Kg dry	.5		05/18/2011	6020	KS
7440-50-8	Copper - Sediment	14	mg/Kg dry	1		05/18/2011	6020	KS
	Digest Antimony - Sediment	Completed				05/20/2011	3050	WN
	Digest Metals - Sediment	Completed				05/17/2011	3050	WN
7439-89-6	Iron - Sediment	16000	mg/Kg dry	50	D	05/25/2011	6010	WN
7439-92-1	Lead - Sediment	41	mg/Kg dry	1		05/18/2011	6020	KS
7439-96-5	Manganese - Sediment	290	mg/Kg dry	1		05/18/2011	6020	KS
7439-98-7	Molybdenum - Sediment	1.5	mg/Kg dry	1		05/18/2011	6020	KS
7440-02-0	Nickel - Sediment	16	mg/Kg dry	1		05/18/2011	6020	KS
7782-49-2	Selenium - Sediment	0.29	mg/Kg dry	0.2		05/18/2011	6020	KS
7440-22-4	Silver - Sediment	ND	mg/Kg dry	0.1		05/18/2011	6020	KS
7440-28-0	Thallium - Sediment	ND	mg/Kg dry	0.5		05/18/2011	6020	KS
7440-62-2	Vanadium - Sediment	19	mg/Kg dry	1		05/18/2011	6020	KS
7440-66-6	Zinc - Sediment	60	mg/Kg dry	1		05/18/2011	6020	KS
	% Total Solids	84.9	%	0.1		05/14/2011	2540B SM	KS
	Drying and Grinding - Sediment	COMPLETE				05/14/2011		KS
	Gel Permeation Cleanup-Pesticide/PCJ	Completed				05/10/2011	3640	DT
	Gel Permeation Cleanup-SVOC Analy	Completed				05/11/2011	3640	DT

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Sample Number: AB73277 SS-09

Pesticides and PCBs

Analytical Method: 8081,8082 Date Tested: 05/16/2011 Analyst: MF
Extraction Method: 3545 Extraction Date: 05/06/2011 Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
SURROGATE	#Decachlorobiphenyl#	56.4			
SURROGATE	#Tetrachloro-m-xylene#	90.8			
72-54-8	4,4'-DDD	3300	300		10
72-55-9	4,4'-DDE	13000	3000		100
50-29-3	4,4'-DDT	12000	3000		100
319-84-6	a-BHC	Not Detected	150		10
5103-71-9	a-Chlordane	Not Detected	300		10
309-00-2	Aldrin	Not Detected	300		10
12674-11-2	Aroclor 1016	Not Detected	1500		10
11104-28-2	Aroclor 1221	Not Detected	1500		10
11141-16-5	Aroclor 1232	Not Detected	1500		10
53469-21-9	Aroclor 1242	Not Detected	1500		10
12672-29-6	Aroclor 1248	Not Detected	1500		10
11097-69-1	Aroclor 1254	Not Detected	1500		10
11096-82-5	Aroclor 1260	Not Detected	1500		10
37324-23-5	Aroclor 1262	Not Detected	1500		10
11100-14-4	Aroclor 1268	Not Detected	1500		10
319-85-7	b-BHC	Not Detected	300		10
319-86-8	d-BHC	Not Detected	300		10
60-57-1	Dieldrin	Not Detected	300		10
959-98-8	Endosulfan I	Not Detected	300		10
33213-65-9	Endosulfan II	Not Detected	300		10
1031-07-8	Endosulfan sulfate	Not Detected	300		10
72-20-8	Endrin	Not Detected	300		10
7421-93-4	Endrin aldehyde	Not Detected	300		10
53494-70-5	Endrin ketone	Not Detected	300		10
58-89-9	g-BHC (Lindane)	Not Detected	300		10
5103-74-2	g-Chlordane	Not Detected	300		10
76-44-8	Heptachlor	Not Detected	300		10
1024-57-3	Heptachlor epoxide	Not Detected	300		10
87-82-1	Hexabromobenzene	Not Detected	1500		10
72-13-5	Methoxychlor	Not Detected	750		10
2385-85-5	Mirex	Not Detected	750		10
59080-40-9	PBB (BP-6)	Not Detected	3700		10
8001-35-2	Toxaphene	Not Detected	2500		10

RLs raised due to matrix interference.

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

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Sample Number: AB73277 SS-09

Base Neutral Acid Compounds

Analytical Method: 8270 Date Tested: 05/15/2011 Analyst: SMH
Extraction Method: 3545 Extraction Date: 05/09/2011 Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
SURROGATE	#2-Fluorobiphenyl#	44.5			
SURROGATE	#2,4,6-Tribromophenol#	35.6			
SURROGATE	#2-Fluorophenol#	32.9			
SURROGATE	#Nitrobenzene - D5#	31.6		9	
SURROGATE	#Phenol - D6#	40.1			
SURROGATE	#p-Terphenyl-d14#	66.4			
120-82-1	1,2,4-Trichlorobenzene	Not Detected	600		2.0
95-95-4	2,4,5-Trichlorophenol	Not Detected	990		2.0
88-06-2	2,4,6-Trichlorophenol	Not Detected	990		2.0
120-83-2	2,4-Dichlorophenol	Not Detected	990		2.0
105-67-9	2,4-Dimethylphenol	Not Detected	990		2.0
51-28-5	2,4-Dinitrophenol	Not Detected	5100	Z	2.0
121-14-2	2,4-Dinitrotoluene	Not Detected	750		2.0
606-20-2	2,6-Dinitrotoluene	Not Detected	750		2.0
91-58-7	2-Chloronaphthalene	Not Detected	600		2.0
95-57-8	2-Chlorophenol	Not Detected	990		2.0
534-52-1	2-Methyl-4,6-dinitrophenol	Not Detected	5100	Z	2.0
91-57-6	2-Methylnaphthalene	Not Detected	750		2.0
95-48-7	2-Methylphenol (o-Cresol)	Not Detected	990		2.0
88-74-4	2-Nitroaniline	Not Detected	1500		2.0
88-75-5	2-Nitrophenol	Not Detected	990		2.0
108394,106445	3 & 4-Methylphenol	Not Detected	2000		2.0
99-09-2	3-Nitroaniline	Not Detected	1500	3	2.0
101-55-3	4-Bromophenyl phenyl ether	Not Detected	600		2.0
59-50-7	4-Chloro-3-methylphenol	Not Detected	600		2.0
7005-72-3	4-Chlorodiphenylether	Not Detected	300		2.0
100-01-6	4-Nitroaniline	Not Detected	1500		2.0
100-02-7	4-Nitrophenol	Not Detected	5100	Z	2.0
83-32-9	Acenaphthene	Not Detected	300		2.0
208-96-8	Acenaphthylene	Not Detected	300		2.0
120-12-7	Anthracene	Not Detected	300		2.0
103-33-3	Azobenzene	Not Detected	600		2.0
56-55-3	Benzo[a]anthracene	1100	300		2.0
50-32-8	Benzo[a]pyrene	1000	600		2.0
205-99-2	Benzo[b]fluoranthene	1900	600		2.0
191-24-2	Benzo[g,h,i]perylene	Not Detected	600		2.0
207-08-9	Benzo[k]fluoranthene	660	600		2.0
100-51-6	Benzyl Alcohol	Not Detected	7500		2.0
111-91-1	Bis(2-chloroethoxy)methane	Not Detected	600		2.0
111-44-1	Bis(2-chloroethyl)ether	Not Detected	300		2.0

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

Laboratory Contacts
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