



MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
ENVIRONMENTAL LABORATORY

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

Division: WB
Report to: SHARON BAKER
MDEQ-RRD-LANSING
CONSTITUTION HALL
525 W. ALLEGAN, LANSING, MI 48909

Total: \$1,116.00

Lab Work Order #: 81000138
Work Site ID: 31000003
Site Name: TORCH LAKE
Received: 10/16/2008
Reported: 11/12/2008
Collected By: SHARON BAKER

Samples Received :

No:	Sample ID	Sample Description	Matrix:	Collection Date
01	AB25591	3RD BAY SEDS	SEDIMENT	10/14/2008
02	AB25592	SEDS #2 CENTRAL BAY	SEDIMENT	10/14/2008
03	AB25593	SEDS #1 CENTRAL PIT	SEDIMENT	10/14/2008

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.

Bob Avery, Laboratory Director



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P.O. Box 30270
Lansing, MI 48909
TEL: (517) 335-9800
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Sample Number: AB25591 3RD BAY SEDS

PCBs as Aroclors

Analytical Method: 8082
Extraction Method: 3545

Date Tested: 10/29/2008
Extraction Date: 10/21/2008

Analyst: MF
Qualifier:

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
SURROGATE	#Decachlorobiphenyl#	79.1			
SURROGATE	#Tetrachloro-m-xylene#	101			
12674-11-2	Aroclor 1016	Not Detected	6900		20
1104-28-2	Aroclor 1221	Not Detected	6900		20
11141-16-5	Aroclor 1232	Not Detected	6900		20
53469-21-9	Aroclor 1242	Not Detected	6900		20
12672-29-6	Aroclor 1248	Not Detected	6900		20
11097-69-1	Aroclor 1254	Not Detected	6900		20
11096-82-5	Aroclor 1260	Not Detected	17000		20
37324-23-5	Aroclor 1262	17000	6900		20
11100-14-4	Aroclor 1268	Not Detected	6900		20

RLs raised due to matrix interference.

Base Neutral Acids with Library Search

Analytical Method: 8270
Extraction Method: 3545

Date Tested: 10/28/2008
Extraction Date: 10/20/2008

Analyst: SMH
Qualifier: K

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
SURROGATE	#2-Fluorobiphenyl#	83.6			
SURROGATE	#2,4,6-Tribromophenol#	89.4			
SURROGATE	#2-Fluorophenol#	72.2			
SURROGATE	#Nitrobenzene - D5#	69.6			
SURROGATE	#Phenol - D6#	77.4			
SURROGATE	#p-Terphenyl-d14#	117			
120-82-1	1,2,4-Trichlorobenzene	Not Detected	14000		20
95-95-4	2,4,5-Trichlorophenol	Not Detected	23000		20
88-06-2	2,4,6-Trichlorophenol	Not Detected	23000		20
120-83-2	2,4-Dichlorophenol	Not Detected	23000		20
105-67-9	2,4-Dimethylphenol	Not Detected	23000		20
51-28-5	2,4-Dinitrophenol	Not Detected	120000	Z	20
121-14-2	2,4-Dinitrotoluene	Not Detected	17000		20
606-20-2	2,6-Dinitrotoluene	Not Detected	17000		20
91-58-7	2-Chloronaphthalene	Not Detected	14000		20
95-57-8	2-Chlorophenol	Not Detected	23000		20
534-52-1	2-Methyl-4,6-dinitrophenol	Not Detected	120000	Z	20
91-57-6	2-Methylnaphthalene	Not Detected	17000		20
95-48-7	2-Methylphenol (o-Cresol)	Not Detected	23000		20
88-74-4	2-Nitroaniline	Not Detected	35000		20
88-75-5	2-Nitrophenol	Not Detected	23000		20
108394,106445	3 & 4-Methylphenol	Not Detected	46000		20
99-09-2	3-Nitroaniline	Not Detected	35000		20

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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Base Neutral Acids with Library Search

Analytical Method: 8270

Date Tested: 10/28/2008

Analyst: SMH

Extraction Method: 3545

Extraction Date: 10/20/2008

Qualifier: K

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
101-55-3	4-Bromophenyl phenyl ether	Not Detected	14000		20
59-50-7	4-Chloro-3-methyl-phenol	Not Detected	14000		20
7005-72-3	4-Chlorodiphenyl ether	Not Detected	6900		20
100-01-6	4-Nitroaniline	Not Detected	35000		20
100-02-7	4-Nitrophenol	Not Detected	120000	Z	20
83-32-9	Acenaphthene	Not Detected	6900		20
208-96-8	Acenaphthylene	Not Detected	6900		20
120-12-7	Anthracene	Not Detected	6900		20
103-33-3	Azobenzene	Not Detected	14000		20
56-55-3	Benzo[a]anthracene	Not Detected	6900		20
50-32-8	Benzo[a]pyrene	Not Detected	140000		200
205-99-2	Benzo[b]fluoranthene	Not Detected	140000		200
191-24-2	Benzo[g,h,i]perylene	Not Detected	140000		200
207-08-9	Benzo[k]fluoranthene	Not Detected	140000		200
100-51-6	Benzyl Alcohol	Not Detected	170000		20
111-91-1	Bis(2-chloroethoxy)methane	Not Detected	14000		20
111-44-4	Bis(2-chloroethyl)ether	Not Detected	6900		20
108-60-1	Bis(2-chloroisopropyl)ether	Not Detected	6900		20
117-81-7	Bis(2-ethylhexyl)phthalate	150000	17000		20
85-68-7	Butyl benzyl phthalate	Not Detected	17000		20
86-74-8	Carbazole	Not Detected	17000		20
218-01-9	Chrysene	Not Detected	6900		20
53-70-3	Dibenz[a,h]anthracene	Not Detected	140000		200
132-64-9	Dibenzofuran	Not Detected	17000		20
84-66-2	Diethylphthalate	Not Detected	17000		20
131-11-3	Dimethyl phthalate	Not Detected	17000		20
84-74-2	Di-n-butyl phthalate	Not Detected	17000		20
117-84-0	Di-n-octyl phthalate	Not Detected	17000		20
206-44-0	Fluoranthene	Not Detected	6900		20
86-73-7	Fluorene	Not Detected	6900		20
118-74-1	Hexachlorobenzene	Not Detected	14000		20
87-68-3	Hexachlorobutadiene	Not Detected	6900	Z	20
77-47-4	Hexachlorocyclopentadiene	Not Detected	69000	Z	20
67-72-1	Hexachloroethane	Not Detected	6900		20
193-39-5	Indeno(1,2,3-c,d)pyrene	Not Detected	140000		200
78-59-1	Isophorone	Not Detected	6900		20
91-20-3	Naphthalene	Not Detected	6900		20
98-95-3	Nitrobenzene	Not Detected	14000		20
67-75-9	N-Nitrosodimethylamine	Not Detected	17000		20
621-64-7	N-Nitrosodi-n-propylamine	Not Detected	14000		20
86-30-6	N-Nitrosodiphenylamine	Not Detected	14000		20

CAS# : Chemical Abstract Service Registry Number

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ND : Not Detected

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Sample Number: AB25591 3RD BAY SEDS

Base Neutral Acids with Library Search

Analytical Method:	8270	Date Tested:	10/28/2008	Analyst:	SMH
Extraction Method:	3545	Extraction Date:	10/20/2008	Qualifier:	K
CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
87-86-5	Pentachlorophenol	Not Detected	120000	Z=800	20
85-01-8	Phenanthrene	Not Detected	6900		20
108-95-2	Phenol	Not Detected	23000		20
129-00-0	Pyrene	Not Detected	6900		20

A library search found no reportable compounds.

Probable petroleum product(s) present.

RLs raised due to matrix interference.

Sample AB25591 3RD BAY SEDS

CAS#	Analyte Name	Result	Unit	RL	Qualifier	Date Tested	Method	Analyst
	% Total Solids	28.9	%	0.1		10/22/2008		DB
	Gel Permeation Cleanup-Pesticide/PCP	Completed				10/22/2008	3640	DT
	Gel Permeation Cleanup-SVOC Analy	Completed				10/21/2008	3640	DT

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

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Sample Number: AB25592 SEDS #2 CENTRAL BAY

PCBs as Aroclors

Analytical Method:	8082	Date Tested:	10/29/2008	Analyst:	MF
Extraction Method:	3545	Extraction Date:	10/21/2008	Qualifier:	
CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
SURROGATE	#Decachlorobiphenyl#	70.2			
SURROGATE	#Tetrachloro-m-xylene#	98.0			
12674-11-2	Aroclor 1016	Not Detected	1800		5.0
11104-28-2	Aroclor 1221	Not Detected	1800		5.0
11141-16-5	Aroclor 1232	Not Detected	1800		5.0
55469-21-9	Aroclor 1242	Not Detected	1800		5.0
12672-29-6	Aroclor 1248	Not Detected	1800		5.0
11097-69-1	Aroclor 1254	Not Detected	1800		5.0
11096-82-5	Aroclor 1260	Not Detected	1800		5.0
37324-23-5	Aroclor 1262	Not Detected	1800		5.0
11100-14-4	Aroclor 1268	Not Detected	1800		5.0

RLs raised due to matrix interference.

Base Neutral Acids with Library Search

Analytical Method:	8270	Date Tested:	10/28/2008	Analyst:	SMH
Extraction Method:	3545	Extraction Date:	10/20/2008	Qualifier:	K
CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
SURROGATE	#2-Fluorobiphenyl#	81.6			
SURROGATE	#2,4,6-Tribromophenol#	80.8			
SURROGATE	#2-Fluorophenol#	70.8			
SURROGATE	#Nitrobenzene - D5#	68.0			
SURROGATE	#Phenol - D6#	65.8			
SURROGATE	#p-Terphenyl-d14#	106			
	*Dimethylundecane	11000		LB	
	*Eicosane	16000		LB	
	*Heneicosane	16000		LB	
	*Heptadecane	11000		LB	
	*Nonadecane	8100		LB	
	*Octadecane	15000		LB	
	*Tetramethylhexadecane	22000		LB	
	*Tetramethylpentadecane	22000		LB	
120-82-1	1,2,4-Trichlorobenzene	Not Detected	15000		20
95-95-4	2,4,5-Trichlorophenol	Not Detected	24000		20
88-06-2	2,4,6-Trichlorophenol	Not Detected	24000		20
120-83-2	2,4-Dichlorophenol	Not Detected	24000		20
105-67-9	2,4-Dimethylphenol	Not Detected	24000		20
51-28-5	2,4-Dinitrophenol	Not Detected	120000	Z	20
121-14-2	2,4-Dinitrotoluene	Not Detected	18000		20
606-20-2	2,6-Dinitrotoluene	Not Detected	18000		20
91-58-7	2-Chloronaphthalene	Not Detected	15000		20

CAS# : Chemical Abstract Service Registry Number

RL : Reporting Limit

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Base Neutral Acids with Library Search

Analytical Method:	8270	Date Tested:	10/28/2008	Analyst:	SMH
Extraction Method:	3545	Extraction Date:	10/20/2008	Qualifier:	K
CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
95-57-8	2-Chlorophenol	Not Detected	24000		20
534-52-1	2-Methyl-4,6-dinitrophenol	Not Detected	120000	Z	20
91-57-6	2-Methylnaphthalene	Not Detected	18000		20
95-48-7	2-Methylphenol (o-Cresol)	Not Detected	24000		20
88-74-4	2-Nitroaniline	Not Detected	36000		20
88-75-5	2-Nitrophenol	Not Detected	24000		20
108394-106445	3- & 4-Methylphenol	Not Detected	48000		20
99-09-2	3-Nitroaniline	Not Detected	36000		20
101-55-3	4-Bromophenyl phenylether	Not Detected	15000		20
59-50-7	4-Chloro-3-methyl-phenol	Not Detected	15000		20
7005-72-3	4-Chlorodiphenylether	Not Detected	7300		20
100-01-6	4-Nitroaniline	Not Detected	36000		20
100-02-7	4-Nitrophenol	Not Detected	120000	Z	20
83-32-9	Acenaphthene	Not Detected	7300		20
208-96-8	Acenaphthylene	Not Detected	7300		20
120-12-7	Anthracene	Not Detected	7300		20
103-33-3	Azobenzene	Not Detected	15000		20
56-55-3	Benzo[a]anthracene	Not Detected	7300		20
50-32-8	Benzo[a]pyrene	Not Detected	15000		20
205-99-2	Benzo[b]fluoranthene	Not Detected	15000		20
191-24-2	Benzo[g,h,i]perylene	Not Detected	15000		20
207-08-9	Benzo[k]fluoranthene	Not Detected	15000		20
100-51-6	Benzyl Alcohol	Not Detected	180000	5	20
111-91-1	Bis(2-chloroethoxy)methane	Not Detected	15000		20
111-44-4	Bis(2-chloroethyl)ether	Not Detected	7300		20
108-60-1	Bis(2-chloroisopropyl)ether	Not Detected	7300		20
117-81-7	Bis(2-ethylhexyl)phthalate	Not Detected	18000		20
85-68-7	Butyl benzyl phthalate	Not Detected	18000		20
86-74-8	Carbazole	Not Detected	18000		20
218-01-9	Chrysene	Not Detected	7300		20
53-70-3	Dibenz[a,h]anthracene	Not Detected	15000		20
132-64-9	Dibenzofuran	Not Detected	18000		20
84-66-2	Diethylphthalate	Not Detected	18000		20
131-11-3	Dimethyl phthalate	Not Detected	18000		20
84-74-2	Di-n-butyl phthalate	Not Detected	18000		20
117-84-0	Di-n-octyl phthalate	Not Detected	18000		20
206-44-0	Fluoranthene	5700	7300	T	20
86-73-7	Fluorene	Not Detected	7300		20
118-74-1	Hexachlorobenzene	Not Detected	15000		20
87-68-3	Hexachlorobutadiene	Not Detected	7300	Z	20
77-47-4	Hexachlorocyclopentadiene	Not Detected	73000	Z	20

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: AB25592 SEDS #2 CENTRAL BAY

Base Neutral Acids with Library Search

Analytical Method:	8270	Date Tested:	10/28/2008	Analyst:	SMH
Extraction Method:	3545	Extraction Date:	10/20/2008	Qualifier:	K
CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
67-72-1	Hexachloroethane	Not Detected	7300		20
193-39-5	Indeno(1,2,3-c,d)pyrene	Not Detected	15000		20
78-59-1	Isophorone	Not Detected	7300		20
91-20-3	Naphthalene	Not Detected	7300		20
98-95-3	Nitrobenzene	Not Detected	15000		20
67-75-9	N-Nitrosodimethylamine	Not Detected	18000		20
621-64-7	N-Nitrosodi-n-propylamine	Not Detected	15000		20
86-30-6	N-Nitrosodiphenylamine	Not Detected	15000		20
87-86-5	Pentachlorophenol	Not Detected	120000	Z=800	20
85-01-8	Phenanthrene	Not Detected	7300		20
108-95-2	Phenol	Not Detected	24000		20
129-00-0	Pyrene	5600	7300	T	20

Probable petroleum product(s) present.

RLs raised due to matrix interference.

Sample AB25592 SEDS #2 CENTRAL BAY

CAS#	Analyte Name	Result	Unit	RL	Qualifier	Date Tested	Method	Analyst
	% Total Solids	27.5	%	0.1		10/22/2008		DB
	Gel Permeation Cleanup-Pesticide/PCP	Completed				10/22/2008	3640	DT
	Gel Permeation Cleanup-SVOC Analy	Completed				10/21/2008	3640	DT

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

ug / L : microgram / liter (ppb)
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Sample Number: AB25593 SEDS #1 CENTRAL PIT

PCBs as Aroclors

Analytical Method:	8082	Date Tested:	10/25/2008	Analyst:	MF
Extraction Method:	3545	Extraction Date:	10/21/2008	Qualifier:	
CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
SURROGATE	#Decachlorobiphenyl#	9.7		9	
SURROGATE	#Tetrachloro-m-xylene#	80.0			
12674-11-2	Aroclor 1016	Not Detected	160		1.0
11104-28-2	Aroclor 1221	Not Detected	160		1.0
11141-16-5	Aroclor 1232	Not Detected	160		1.0
53469-21-9	Aroclor 1242	Not Detected	160		1.0
12672-29-6	Aroclor 1248	Not Detected	160		1.0
11097-69-1	Aroclor 1254	Not Detected	160		1.0
11096-82-5	Aroclor 1260	Not Detected	160		1.0
37324-23-5	Aroclor 1262	Not Detected	160		1.0
11100-14-4	Aroclor 1268	Not Detected	160		1.0

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

Base Neutral Acids with Library Search

Analytical Method:	8270	Date Tested:	10/28/2008	Analyst:	SMH
Extraction Method:	3545	Extraction Date:	10/20/2008	Qualifier:	KW
CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
SURROGATE	#2-Fluorobiphenyl#	85.2			
SURROGATE	#2,4,6-Tribromophenol#	83.4			
SURROGATE	#2-Fluorophenol#	83.0			
SURROGATE	#Nitrobenzene - D5#	80.8			
SURROGATE	#Phenol - D6#	89.8			
SURROGATE	#p-Terphenyl-d14#	98.6			
	*1-Methyl-naphthalene	1500		LB	
	*Dimethyl-naphthalene isomer1	1800		LB	
	*Dimethyl-naphthalene isomer2	1100		LB	
	*Dimethyl-naphthalene isomer3	650		LB	
	*Dimethyl-octane	2000		LB	
	*Dimethyl-undecane	1800		LB	
	*Docosane	600		LB	
	*Methylethyl-naphthalene	710		LB	
	*Methyl-tridecane	820		LB	
	*Propyl-tridecane	2600		LB	
	*Tetramethyl-benzene	910		LB	
	*Tetramethyl-hexadecane	2200		LB	
	*Tetramethyl-pentadecane	3200		LB	
	*Trimethyl-naphthalene	1200		LB	
	*Undecane	1900		LB	
120-82-1	1,2,4-Trichlorobenzene	Not Detected	630		2.0
95-95-4	2,4,5-Trichlorophenol	Not Detected	1000		2.0

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
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Base Neutral Acids with Library Search

Analytical Method: 8270
Extraction Method: 3545

Date Tested: 10/28/2008
Extraction Date: 10/20/2008

Analyst: SMH
Qualifier: KW

CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
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	5300	Z	2.0
121-14-2	2,4-Dinitrotoluene	Not Detected	780		2.0
606-20-2	2,6-Dinitrotoluene	Not Detected	780		2.0
91-58-7	2-Chloronaphthalene	Not Detected	630		2.0
95-57-8	2-Chlorophenol	Not Detected	1000		2.0
534-52-1	2-Methyl-4,6-dinitrophenol	Not Detected	5300	Z	2.0
91-57-6	2-Methylnaphthalene	1700	780		2.0
95-48-7	2-Methylphenol (o-Cresol)	Not Detected	1000		2.0
88-74-4	2-Nitroaniline	Not Detected	1600		2.0
88-75-5	2-Nitrophenol	Not Detected	1000		2.0
108394,106445	3 & 4-Methylphenol	Not Detected	2100		2.0
99-09-2	3-Nitroaniline	Not Detected	1600		2.0
101-55-3	4-Bromophenyl phenyl ether	Not Detected	630		2.0
59-50-7	4-Chloro-3-methylphenol	Not Detected	630		2.0
7005-72-3	4-Chlorodiphenylether	Not Detected	310		2.0
100-01-6	4-Nitroaniline	Not Detected	1600		2.0
100-02-7	4-Nitrophenol	Not Detected	5300	Z	2.0
83-32-9	Acenaphthene	Not Detected	310		2.0
208-96-8	Acenaphthylene	Not Detected	310		2.0
120-12-7	Anthracene	Not Detected	310		2.0
103-33-3	Azobenzene	Not Detected	630		2.0
56-55-3	Benzo[a]anthracene	Not Detected	310		2.0
50-32-8	Benzo[a]pyrene	Not Detected	630		2.0
205-99-2	Benzo[b]fluoranthene	Not Detected	630		2.0
191-24-2	Benzo[ghi]perylene	Not Detected	630		2.0
207-08-9	Benzo[k]fluoranthene	Not Detected	630		2.0
100-51-6	Benzyl Alcohol	Not Detected	7800	5	2.0
111-91-1	Bis(2-chloroethoxy)methane	Not Detected	630		2.0
111-44-4	Bis(2-chloroethyl)ether	Not Detected	310		2.0
108-60-1	Bis(2-chloroisopropyl)ether	Not Detected	310		2.0
117-81-7	Bis(2-ethylhexyl)phthalate	Not Detected	780		2.0
85-68-7	Butyl benzyl phthalate	Not Detected	780		2.0
86-74-8	Carbazole	Not Detected	780		2.0
218-01-9	Chrysene	Not Detected	310		2.0
59-70-3	Dibenz[a,h]anthracene	Not Detected	630		2.0
132-64-9	Dibenzofuran	Not Detected	780		2.0
84-66-2	Diethyl phthalate	Not Detected	780		2.0
131-11-3	Dimethyl phthalate	Not Detected	780		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
Inorganic Unit Mgr: Sandy Gregg
Organic Unit Mgr: Carol Smith
Systems Mgmt Unit: George Krisztian



MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
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Sample Number: AB25593 SEDS #1 CENTRAL PIT

Base Neutral Acids with Library Search

Analytical Method:	8270	Date Tested:	10/28/2008	Analyst:	SMH
Extraction Method:	3545	Extraction Date:	10/20/2008	Qualifier:	KW
CAS #	Compound	Result ug/Kg dry	RL	Qualifier	Dilution Factor
84-74-2	Di-n-butyl phthalate	Not Detected	780		2.0
117-84-0	Di-n-octyl phthalate	Not Detected	780		2.0
206-44-0	Fluoranthene	Not Detected	310		2.0
86-73-7	Fluorene	Not Detected	310		2.0
118-74-1	Hexachlorobenzene	Not Detected	630		2.0
87-68-3	Hexachlorobutadiene	Not Detected	310	Z	2.0
77-47-4	Hexachlorocyclopentadiene	Not Detected	3100	Z	2.0
67-72-1	Hexachloroethane	Not Detected	310		2.0
193-39-5	Indeno(1,2,3-c,d)pyrene	Not Detected	630		2.0
78-59-1	Isophorone	Not Detected	310		2.0
91-20-3	Naphthalene	350	310		2.0
98-95-3	Nitrobenzene	Not Detected	630		2.0
67-75-9	N-Nitrosodimethylamine	Not Detected	780		2.0
621-64-7	N-Nitrosodi-n-propylamine	Not Detected	630		2.0
86-30-6	N-Nitrosodiphenylamine	Not Detected	630		2.0
87-86-5	Pentachlorophenol	Not Detected	5900	Z=800	2.0
85-01-8	Phenanthrene	190	310	T	2.0
108-95-2	Phenol	Not Detected	1000		2.0
129-00-0	Pyrene	Not Detected	310		2.0

RLs raised due to matrix interference.
Probable petroleum product(s) present.

Sample AB25593 SEDS #1 CENTRAL PIT

CAS#	Analyte Name	Result	Unit	RL	Qualifier	Date Tested	Method	Analyst
	% Total Solids	64.0	%	0.1		10/22/2008		DB
	Gel Permeation Cleanup-Pesticide(PC) Completed					10/22/2008	3640	DT
	Gel Permeation Cleanup-SVOC Analy Completed					10/21/2008	3640	DT

CAS# : Chemical Abstract Service Registry Number
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mg / Kg : milligram / kilogram (ppm)

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Qualifier Code	Qualifier Description
I	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.

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Division: WB
Report to: SHARON BAKER
MDEQ-RRD-LANSING
CONSTITUTION HALL
525 W. ALLEGAN, LANSING, MI 48909

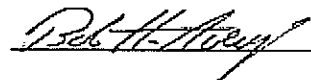
Total: \$1,526.00

Lab Work Order #: 81000137
Work Site ID: 31000003
Site Name: TORCH LAKE
Received: 10/16/2008
Reported: 11/10/2008
Collected By: SHARON BAKER

Samples Received :

No:	Sample ID	Sample Description	Matrix:	Collection Date
01	AB25587	3RD BAY WATER	WATER	10/14/2008
02	AB25588	CENTRAL PIT WATER	WATER	10/14/2008
03	AB25589	CENTRAL PIT #2 (DECANTED)	WATER	10/14/2008
04	AB25590	3RD BAY SEDS WATER	WATER	10/14/2008

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.


Bob Avery, Laboratory Director



MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

ENVIRONMENTAL LABORATORY

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TEL: (517) 335-9800

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Sample Number: AB25587 3RD BAY WATER

Volatile Compounds with Library Search

Analytical Method: 8260

Date Tested: 10/21/2008

Analyst: KCL

CAS #	Compound	Result ug/L	RL	Qualifier	Dilution Factor
SURROGATE	#Bromofluorobenzene#	99.3			
SURROGATE	#Dibromofluoromethane#	93.8			
SURROGATE	#Toluene-d8#	96.5			
630-20-6	1,1,1,2-Tetrachloroethane	Not Detected	1.0		1.0
71-55-6	1,1,1-Trichloroethane	Not Detected	1.0		1.0
79-34-5	1,1,2,2-Tetrachloroethane	Not Detected	1.0		1.0
79-00-5	1,1,2-Trichloroethane	Not Detected	1.0		1.0
75-34-3	1,1-Dichloroethane	Not Detected	1.0		1.0
75-35-4	1,1-Dichloroethylene	Not Detected	1.0		1.0
87-61-6	1,2,3-Trichlorobenzene	Not Detected	5.0		1.0
96-18-4	1,2,3-Trichloropropane	Not Detected	1.0		1.0
526-73-8	1,2,3-Trimethylbenzene	Not Detected	1.0		1.0
120-82-1	1,2,4-Trichlorobenzene	Not Detected	5.0		1.0
95-63-6	1,2,4-Trimethylbenzene	Not Detected	1.0		1.0
96-12-8	1,2-Dibromo-3-chloropropane	Not Detected	5.0	5	1.0
106-93-4	1,2-Dibromoethane	Not Detected	1.0		1.0
95-50-1	1,2-Dichlorobenzene	Not Detected	1.0		1.0
107-06-2	1,2-Dichloroethane	Not Detected	1.0		1.0
78-87-5	1,2-Dichloropropane	Not Detected	1.0		1.0
108-67-8	1,3,5-Trimethylbenzene	Not Detected	1.0		1.0
541-73-1	1,3-Dichlorobenzene	Not Detected	1.0		1.0
106-46-7	1,4-Dichlorobenzene	Not Detected	1.0		1.0
78-93-3	2-Butanone (MEK)	Not Detected	5.0		1.0
591-78-6	2-Hexanone	Not Detected	5.0		1.0
91-57-6	2-Methylnaphthalene	Not Detected	5.0	X	1.0
67-64-1	2-Propanone (acetone)	Not Detected	20		1.0
108-10-1	4-Methyl-2-pentanone (MIBK)	Not Detected	5.0		1.0
107-13-1	Acrylonitrile	Not Detected	5.0	Z	1.0
71-43-2	Benzene	Not Detected	1.0		1.0
108-86-1	Bromobenzene	Not Detected	1.0		1.0
74-97-5	Bromochloromethane	Not Detected	1.0		1.0
75-27-4	Bromodichloromethane	Not Detected	1.0		1.0
75-25-2	Bromoform	Not Detected	1.0	5	1.0
74-83-9	Bromomethane	Not Detected	5.0		1.0
75-15-0	Carbon disulfide	Not Detected	1.0		1.0
56-23-5	Carbon tetrachloride	Not Detected	1.0		1.0
108-90-7	Chlorobenzene	Not Detected	1.0		1.0
75-00-3	Chloroethane	Not Detected	5.0		1.0
67-66-3	Chloroform	Not Detected	1.0		1.0
74-87-3	Chloromethane	Not Detected	5.0		1.0
156-59-2	cis-1,2-Dichloroethylene	Not Detected	1.0		1.0

CAS# : Chemical Abstract Service Registry Number

RL : Reporting Limit

ND : Not Detected

ug / L : microgram / liter (ppb)

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ug / Kg : microgram / kilogram (ppb)

mg / Kg : milligram / kilogram (ppm)

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Sample Number: AB25587 3RD BAY WATER

Volatile Compounds with Library Search

Analytical Method: 8260

Date Tested: 10/21/2008

Analyst: KCL

CAS #	Compound	Result ug/L	RL	Qualifier	Dilution Factor
10061-01-5	cis-1,3-Dichloropropylene	Not Detected	1.0		1.0
110-82-7	Cyclohexane	Not Detected	5.0		1.0
124-48-1	Dibromochloromethane	Not Detected	1.0		1.0
74-95-3	Dibromomethane	Not Detected	1.0		1.0
75-71-8	Dichlorodifluoromethane	Not Detected	5.0		1.0
60-29-7	Diethylether	Not Detected	5.0		1.0
108-20-3	Diisopropyl Ether	Not Detected	5.0		1.0
100-41-4	Ethylbenzene	Not Detected	1.0		1.0
637-92-3	Ethyltertiarybutylether	Not Detected	5.0		1.0
67-72-1	Hexachloroethane	Not Detected	5.0		1.0
98-82-8	Isopropylbenzene	Not Detected	1.0		1.0
108383; 106423	m & p- Xylene	Not Detected	2.0		1.0
74-88-4	Methyl iodide	Not Detected	1.0		1.0
75-09-2	Methylene chloride	Not Detected	5.0		1.0
1634-04-4	Methyltertiarybutylether	Not Detected	1.0		1.0
91-20-3	Naphthalene	Not Detected	5.0	X	1.0
104-51-8	n-Butylbenzene	Not Detected	1.0		1.0
103-65-1	n-Propylbenzene	Not Detected	1.0		1.0
95-47-6	o-Xylene	Not Detected	1.0		1.0
99-87-6	p-Isopropyltoluene	Not Detected	1.0		1.0
135-98-8	sec-Butylbenzene	Not Detected	1.0		1.0
100-42-5	Styrene	Not Detected	1.0		1.0
98-06-6	tert-Butylbenzene	Not Detected	1.0		1.0
75-65-0	tertiary Butyl Alcohol	Not Detected	5.0		1.0
994-05-8	tertiary Amylmethylether	Not Detected	5.0		1.0
127-18-4	Tetrachloroethylene	Not Detected	1.0		1.0
109-99-9	Tetrahydrofuran	Not Detected	5.0		1.0
108-88-3	Toluene	Not Detected	1.0		1.0
156-60-5	trans-1,2-Dichloroethylene	Not Detected	1.0		1.0
10061-02-6	trans-1,3-Dichloropropylene	Not Detected	1.0		1.0
110-57-6	trans-1,4-Dichloro-2-butene	Not Detected	5.0	Z	1.0
79-01-6	Trichloroethylene	Not Detected	1.0		1.0
75-69-4	Trichlorofluoromethane	Not Detected	1.0		1.0
75-01-4	Vinyl chloride	Not Detected	1.0		1.0

A library search found no reportable compounds.

PCBs as Aroclors

Analytical Method: 8082

Date Tested: 10/25/2008

Analyst: MF

Extraction Method: 3510

Extraction Date: 10/20/2008

Qualifier:

Volume: 1000

CAS #	Compound	Result ug/L	RL	Qualifier	Dilution Factor
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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: AB25587 3RD BAY WATER

PCBs as Aroclors

Analytical Method:	8082	Date Tested:	10/25/2008	Analyst:	MF
Extraction Method:	3510	Extraction Date:	10/20/2008	Qualifier:	
CAS #	Compound	Result ug/L	RL	Qualifier	Volume: 1000 Dilution Factor
SURROGATE	#Decachlorobiphenyl#	50.6			
SURROGATE	#Tetrachloro-m-xylene#	42.5			
12674-11-2	Aroclor 1016	Not Detected	0.10		1.0
11104-28-2	Aroclor 1221	Not Detected	0.10		1.0
11141-16-5	Aroclor 1232	Not Detected	0.10		1.0
53469-21-9	Aroclor 1242	Not Detected	0.10		1.0
12672-29-6	Aroclor 1248	Not Detected	0.10		1.0
11097-69-1	Aroclor 1254	Not Detected	0.10		1.0
11096-82-5	Aroclor 1260	Not Detected	0.10		1.0
37324-23-5	Aroclor 1262	Not Detected	0.10		1.0
11100-14-4	Aroclor 1268	Not Detected	0.10		1.0

Base Neutral Acids with Library Search

Analytical Method:	8270	Date Tested:	10/20/2008	Analyst:	SMH
Extraction Method:	3510	Extraction Date:	10/17/2008	Qualifier:	
CAS #	Compound	Result ug/L	RL	Qualifier	Volume: 1000 Dilution Factor
SURROGATE	#2-Fluorobiphenyl#	40.7			
SURROGATE	#2,4,6-Tribromophenol#	90.0			
SURROGATE	#2-Fluorophenol#	20.0			
SURROGATE	#Nitrobenzene - D5#	40.1			
SURROGATE	#Phenol - D6#	14.0			
SURROGATE	#p-Terphenyl-D14#	85.4			
120-82-1	1,2,4-Trichlorobenzene	Not Detected	2.0		1.0
95-95-4	2,4,5-Trichlorophenol	Not Detected	5.0		1.0
88-06-2	2,4,6-Trichlorophenol	Not Detected	4.0		1.0
120-83-2	2,4-Dichlorophenol	Not Detected	10		1.0
105-67-9	2,4-Dimethylphenol	Not Detected	5.0		1.0
51-28-5	2,4-Dinitrophenol	Not Detected	25		1.0
121-14-2	2,4-Dinitrotoluene	Not Detected	5.0		1.0
606-20-2	2,6-Dinitrotoluene	Not Detected	5.0		1.0
95-51-2	2-Chloroaniline	Not Detected	5.0		1.0
91-58-7	2-Chloronaphthalene	Not Detected	2.0		1.0
95-57-8	2-Chlorophenol	Not Detected	10		1.0
534-52-1	2-Methyl-4,6-dinitrophenol	Not Detected	20		1.0
91-57-6	2-Methylnaphthalene	Not Detected	5.0		1.0
95-48-7	2-Methylphenol (o-Cresol)	Not Detected	10		1.0
88-74-4	2-Nitroaniline	Not Detected	20		1.0
88-75-5	2-Nitrophenol	Not Detected	5.0		1.0
108394-106445	3 & 4 Methylphenol	Not Detected	20		1.0

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: AB25587 3RD BAY WATER

Base Neutral Acids with Library Search

Analytical Method:	8270	Date Tested:	10/20/2008	Analyst:	SMH
Extraction Method:	3510	Extraction Date:	10/17/2008	Qualifier:	
				Volume:	1000
CAS #	Compound	Result ug/L	RL	Qualifier	Dilution Factor
99-09-2	3-Nitroaniline	Not Detected	20		1.0
101-55-3	4-Bromophenyl phenyl ether	Not Detected	2.0		1.0
59-50-7	4-Chloro-3-methyl-phenol	Not Detected	5.0		1.0
106-47-8	4-Chloroaniline	Not Detected	10		1.0
7005-72-3	4-Chlorodiphenylether	Not Detected	1.0		1.0
100-01-6	4-Nitroaniline	Not Detected	20		1.0
100-02-7	4-Nitrophenol	Not Detected	25		1.0
83-32-9	Acenaphthene	Not Detected	1.0		1.0
208-96-8	Acenaphthylene	Not Detected	1.0		1.0
62-53-3	Aniline	Not Detected	4.0		1.0
120-12-7	Anthracene	Not Detected	1.0		1.0
103-33-3	Azobenzene	Not Detected	2.0		1.0
56-55-3	Benzo[a]anthracene	Not Detected	1.0		1.0
50-32-8	Benzo[a]pyrene	Not Detected	1.0		1.0
205-99-2	Benzo[b]fluoranthene	Not Detected	1.0		1.0
191-24-2	Benzo[g,h,i]perylene	Not Detected	1.0		1.0
207-08-9	Benzo[k]fluoranthene	Not Detected	1.0		1.0
100-51-6	Benzyl Alcohol	Not Detected	50		1.0
111-91-1	Bis(2-chloroethoxy)methane	Not Detected	2.0		1.0
111-44-4	Bis(2-chloroethyl)ether	Not Detected	1.0		1.0
108-60-1	Bis(2-chloroisopropyl)ether	Not Detected	1.0	5	1.0
117-81-7	Bis(2-ethylhexyl)phthalate	Not Detected	5.0		1.0
85-68-7	Butyl benzyl phthalate	Not Detected	5.0		1.0
86-74-8	Carbazole	Not Detected	5.0		1.0
218-01-9	Chrysene	Not Detected	1.0		1.0
53-70-3	Dibenz[a,h]anthracene	Not Detected	2.0		1.0
132-64-9	Dibenzofuran	Not Detected	4.0		1.0
84-66-2	Diethyl phthalate	Not Detected	5.0		1.0
131-11-3	Dimethyl phthalate	Not Detected	5.0		1.0
84-74-2	Di-n-butyl phthalate	Not Detected	5.0		1.0
117-84-0	Di-n-octyl phthalate	Not Detected	5.0		1.0
206-44-0	Fluoranthene	Not Detected	1.0		1.0
86-73-7	Fluorene	Not Detected	1.0		1.0
118-74-1	Hexachlorobenzene	Not Detected	1.0		1.0
87-68-3	Hexachlorobutadiene	Not Detected	1.0		1.0
77-47-4	Hexachlorocyclopentadiene	Not Detected	10	Z	1.0
67-72-1	Hexachloroethane	Not Detected	1.0		1.0
193-39-5	Indeno(1,2,3-c,d)pyrene	Not Detected	2.0		1.0
78-59-1	Isophorone	Not Detected	1.0		1.0
121-69-7	N,N-dimethylaniline	Not Detected	5.0		1.0
91-20-3	Naphthalene	Not Detected	1.0		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 ENVIRONMENTAL QUALITY
ENVIRONMENTAL LABORATORY

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

Sample Number: AB25587 3RD BAY WATER

Base Neutral Acids with Library Search

Analytical Method: 8270		Date Tested: 10/20/2008	Analyst: SMH		Volume: 1000
Extraction Method: 3510		Extraction Date: 10/17/2008	Qualifier:		
CAS #	Compound	Result ug/L	RL	Qualifier	Dilution Factor
98-95-3	Nitrobenzene	Not Detected	2.0		1.0
100-61-8	N-methylaniline	Not Detected	1.0		1.0
67-75-9	N-Nitrosodimethylamine	Not Detected	5.0		1.0
621-64-7	N-Nitrosodi-n-propylamine	Not Detected	2.0		1.0
86-30-6	N-Nitrosodiphenylamine	Not Detected	2.0		1.0
87-86-5	Pentachlorophenol	Not Detected	20		1.0
85-01-8	Phenanthrene	Not Detected	1.0		1.0
108-95-2	Phenol	Not Detected	5.0		1.0
129-00-0	Pyrene	Not Detected	1.0		1.0
110-86-1	Pyridine	Not Detected	20		1.0
632-22-4	Tetramethylurea	Not Detected	1.0		1.0

A library search found no reportable compounds.

Probable petroleum product(s) present.

Florisil Cleanup	Completed	10/24/2008	3620	DT
Gel Permeation Cleanup	Completed	10/22/2008	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)

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Sample Number: AB25588 CENTRAL PIT WATER

Volatile Compounds with Library Search

Analytical Method: 8260

Date Tested: 10/21/2008

Analyst: KCL

CAS #	Compound	Result ug/L	RL	Qualifier	Dilution Factor
SURROGATE	#Bromofluorobenzene#	98.1			
SURROGATE	#Dibromofluoromethane#	93.3			
SURROGATE	#Toluene-d8#	95.8			
630-20-6	1,1,1,2-Tetrachloroethane	Not Detected	1.0		1.0
71-55-6	1,1,1-Trichloroethane	Not Detected	1.0		1.0
79-34-5	1,1,2,2-Tetrachloroethane	Not Detected	1.0		1.0
79-00-5	1,1,2-Trichloroethane	Not Detected	1.0		1.0
75-34-3	1,1-Dichloroethane	Not Detected	1.0		1.0
75-35-1	1,1-Dichloroethylene	Not Detected	1.0		1.0
87-61-6	1,2,3-Trichlorobenzene	Not Detected	5.0		1.0
96-18-4	1,2,3-Trichloropropane	Not Detected	1.0		1.0
526-73-8	1,2,3-Trimethylbenzene	Not Detected	1.0		1.0
120-82-1	1,2,4-Trichlorobenzene	Not Detected	5.0		1.0
95-63-6	1,2,4-Trimethylbenzene	Not Detected	1.0		1.0
96-12-8	1,2-Dibromo-3-chloropropane	Not Detected	5.0	S	1.0
106-93-4	1,2-Dibromoethane	Not Detected	1.0		1.0
95-50-1	1,2-Dichlorobenzene	Not Detected	1.0		1.0
107-06-2	1,2-Dichloroethane	Not Detected	1.0		1.0
78-87-5	1,2-Dichloropropane	Not Detected	1.0		1.0
108-67-8	1,3,5-Trimethylbenzene	Not Detected	1.0		1.0
541-73-1	1,3-Dichlorobenzene	Not Detected	1.0		1.0
106-46-7	1,4-Dichlorobenzene	Not Detected	1.0		1.0
78-93-3	2-Butanone (MEK)	Not Detected	5.0		1.0
591-78-6	2-Hexanone	Not Detected	5.0		1.0
91-57-6	2-Methylnaphthalene	Not Detected	5.0	X	1.0
67-64-1	2-Propanone (acetone)	Not Detected	20		1.0
108-10-1	4-Methyl-2-pentanone (MIBK)	Not Detected	5.0		1.0
107-13-1	Acrylonitrile	Not Detected	5.0	Z	1.0
71-43-2	Benzene	Not Detected	1.0		1.0
108-86-1	Bromobenzene	Not Detected	1.0		1.0
74-97-5	Bromochloromethane	Not Detected	1.0		1.0
75-27-4	Bromodichloromethane	Not Detected	1.0		1.0
75-25-2	Bromoform	Not Detected	1.0	S	1.0
74-83-9	Bromomethane	Not Detected	5.0		1.0
75-15-0	Carbon disulfide	Not Detected	1.0		1.0
56-23-5	Carbon tetrachloride	Not Detected	1.0		1.0
108-90-7	Chlorobenzene	Not Detected	1.0		1.0
75-00-3	Chloroethane	Not Detected	5.0		1.0
67-66-3	Chloroform	Not Detected	1.0		1.0
74-87-3	Chloromethane	Not Detected	5.0		1.0
156-59-2	cis-1,2-Dichloroethylene	Not Detected	1.0		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: AB25588 CENTRAL PIT WATER

Volatile Compounds with Library Search

Analytical Method: 8260

Date Tested: 10/21/2008

Analyst: KCL

CAS #	Compound	Result ug/L	RL	Qualifier	Dilution Factor
10061-01-5	cis-1,3-Dichloropropylene	Not Detected	1.0		1.0
110-82-7	Cyclohexane	Not Detected	5.0		1.0
124-48-1	Dibromochloromethane	Not Detected	1.0		1.0
74-95-3	Dibromomethane	Not Detected	1.0		1.0
75-71-8	Dichlorodifluoromethane	Not Detected	5.0		1.0
60-29-7	Diethyl ether	Not Detected	5.0		1.0
108-20-3	Diisopropyl Ether	Not Detected	5.0		1.0
100-41-4	Ethylbenzene	Not Detected	1.0		1.0
637-92-3	Ethyl tertiarybutylether	Not Detected	5.0		1.0
67-72-1	Hexachloroethane	Not Detected	5.0		1.0
98-82-8	Isopropylbenzene	Not Detected	1.0		1.0
108383,106423	m & p - Xylene	Not Detected	2.0		1.0
74-88-4	Methyl iodide	Not Detected	1.0		1.0
75-09-2	Methylene chloride	Not Detected	5.0		1.0
1634-04-4	Methyl tertiarybutylether	Not Detected	1.0		1.0
91-20-3	Naphthalene	Not Detected	5.0	X	1.0
104-51-8	n-Butylbenzene	Not Detected	1.0		1.0
103-65-1	n-Propylbenzene	Not Detected	1.0		1.0
95-47-6	o-Xylene	Not Detected	1.0		1.0
99-87-6	p-Isopropyl toluene	Not Detected	1.0		1.0
135-98-8	sec-Butylbenzene	Not Detected	1.0		1.0
100-42-5	Styrene	Not Detected	1.0		1.0
98-06-6	tert-Butylbenzene	Not Detected	1.0		1.0
75-65-0	tertiary Butyl Alcohol	Not Detected	50		1.0
994-05-8	tertiary Amyl methyl ether	Not Detected	5.0		1.0
127-18-4	Tetrachloroethylene	Not Detected	1.0		1.0
109-99-9	Tetrahydrofuran	Not Detected	5.0		1.0
108-88-3	Toluene	Not Detected	1.0		1.0
156-60-5	trans-1,2-Dichloroethylene	Not Detected	1.0		1.0
10061-02-6	trans-1,3-Dichloropropylene	Not Detected	1.0		1.0
110-57-6	trans-1,4-Dichloro-2-butene	Not Detected	5.0	Z	1.0
79-01-6	Trichloroethylene	Not Detected	1.0		1.0
75-69-4	Trichlorofluoromethane	Not Detected	1.0		1.0
75-01-4	Vinyl chloride	Not Detected	1.0		1.0

A library search found no reportable compounds.

PCBs as Aroclors

Analytical Method: 8082

Date Tested: 10/25/2008

Analyst: MF

Extraction Method: 3510

Extraction Date: 10/20/2008

Qualifier:

Volume: 1000

CAS #	Compound	Result ug/L	RL	Qualifier	Dilution Factor
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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: AB25588 CENTRAL PIT WATER

PCBs as Aroclors

Analytical Method: 8082		Date Tested: 10/25/2008	Analyst: MF		Volume: 1000
Extraction Method: 3510		Extraction Date: 10/20/2008	Qualifier:		
CAS #	Compound	Result ug/L	RL	Qualifier	Dilution Factor
SURROGATE	#Decachlorobiphenyl#	56.0			
SURROGATE	#Tetrachloro-m-xylene#	50.8			
12674-11-2	Aroclor 1016	Not Detected	0.10		1.0
11104-28-2	Aroclor 1221	Not Detected	0.10		1.0
11141-16-5	Aroclor 1232	Not Detected	0.10		1.0
53469-21-9	Aroclor 1242	Not Detected	0.10		1.0
12672-29-6	Aroclor 1248	Not Detected	0.10		1.0
11097-69-1	Aroclor 1254	Not Detected	0.10		1.0
11096-82-5	Aroclor 1260	Not Detected	0.10		1.0
37324-23-5	Aroclor 1262	Not Detected	0.10		1.0
11100-14-4	Aroclor 1268	Not Detected	0.10		1.0

Base Neutral Acids with Library Search

Analytical Method: 8270		Date Tested: 10/20/2008	Analyst: SMH		Volume: 1000
Extraction Method: 3510		Extraction Date: 10/17/2008	Qualifier:		
CAS #	Compound	Result ug/L	RL	Qualifier	Dilution Factor
SURROGATE	#2 - Fluorobiphenyl#	75.8			
SURROGATE	#2,4,6-Tribromophenol#	99.5			
SURROGATE	#2-Fluorophenol#	35.7			
SURROGATE	#Nitrobenzene - D5#	82.6			
SURROGATE	#Phenol - D6#	24.4			
SURROGATE	#p-Terphenyl-D14#	80.7			
120-82-1	1,2,4-Trichlorobenzene	Not Detected	2.0		1.0
95-95-4	2,4,5-Trichlorophenol	Not Detected	5.0		1.0
88-06-2	2,4,6-Trichlorophenol	Not Detected	4.0		1.0
120-83-2	2,4-Dichlorophenol	Not Detected	10		1.0
105-67-9	2,4-Dimethylphenol	Not Detected	5.0		1.0
51-28-5	2,4-Dinitrophenol	Not Detected	25		1.0
121-14-2	2,4-Dinitrotoluene	Not Detected	5.0		1.0
606-20-2	2,6-Dinitrotoluene	Not Detected	5.0		1.0
95-51-2	2-Chloroaniline	Not Detected	5.0		1.0
91-58-7	2-Chloronaphthalene	Not Detected	2.0		1.0
95-57-8	2-Chlorophenol	Not Detected	10		1.0
534-52-1	2-Methyl-4,6-dinitrophenol	Not Detected	20		1.0
91-57-6	2-Methylnaphthalene	Not Detected	5.0		1.0
95-48-7	2-Methylphenol (o-Cresol)	Not Detected	10		1.0
88-74-4	2-Nitroaniline	Not Detected	20		1.0
88-75-5	2-Nitrophenol	Not Detected	5.0		1.0
108394,106445	3 & 4-Methylphenol	Not Detected	20		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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Sample Number: AB25588 CENTRAL PIT WATER

Base Neutral Acids with Library Search

Analytical Method: 8270		Date Tested: 10/20/2008	Analyst: SMH		Volume: 1000
Extraction Method: 3510		Extraction Date: 10/17/2008	Qualifier:		
CAS #	Compound	Result ug/L	RL	Qualifier	Dilution Factor
99-09-2	3-Nitroaniline	Not Detected	20		1.0
101-55-3	4-Bromophenyl phenyl ether	Not Detected	2.0		1.0
59-50-7	4-Chloro-3-methyl-phenol	Not Detected	5.0		1.0
106-47-8	4-Chloroaniline	Not Detected	1.0		1.0
7005-72-3	4-Chlorodiphenylether	Not Detected	1.0		1.0
100-01-6	4-Nitroaniline	Not Detected	20		1.0
100-02-7	4-Nitrophenol	Not Detected	25		1.0
83-32-9	Acenaphthene	Not Detected	1.0		1.0
208-96-8	Acenaphthylene	Not Detected	1.0		1.0
62-53-3	Aniline	Not Detected	4.0		1.0
120-12-7	Anthracene	Not Detected	1.0		1.0
103-33-3	Azobenzene	Not Detected	2.0		1.0
56-55-3	Benzo[a]anthracene	Not Detected	1.0		1.0
50-32-8	Benzo[a]pyrene	Not Detected	1.0		1.0
205-99-2	Benzo[b]fluoranthene	Not Detected	1.0		1.0
191-24-2	Benzo[g,h,i]perylene	Not Detected	1.0		1.0
207-08-9	Benzo[k]fluoranthene	Not Detected	1.0		1.0
100-51-6	Benzyl Alcohol	Not Detected	50		1.0
111-91-1	Bis(2-chloroethoxy)methane	Not Detected	2.0		1.0
111-44-4	Bis(2-chloroethyl)ether	Not Detected	1.0		1.0
108-60-1	Bis(2-chloroisopropyl)ether	Not Detected	1.0	5	1.0
117-81-7	Bis(2-ethylhexyl)phthalate	21	5.0		1.0
85-68-7	Butyl benzyl phthalate	Not Detected	5.0		1.0
86-74-8	Carbazole	Not Detected	5.0		1.0
218-01-9	Chrysene	Not Detected	1.0		1.0
53-70-3	Dibenz[a,h]anthracene	Not Detected	2.0		1.0
132-64-9	Dibenzofuran	Not Detected	4.0		1.0
84-66-2	Diethylphthalate	Not Detected	5.0		1.0
131-11-3	Dimethyl phthalate	Not Detected	5.0		1.0
84-74-2	Di-n-butyl phthalate	Not Detected	5.0		1.0
117-84-0	Di-n-octyl phthalate	Not Detected	5.0		1.0
206-44-0	Fluoranthene	Not Detected	1.0		1.0
86-73-7	Fluorene	Not Detected	1.0		1.0
118-74-1	Hexachlorobenzene	Not Detected	1.0		1.0
87-68-3	Hexachlorobutadiene	Not Detected	1.0		1.0
77-47-4	Hexachlorocyclopentadiene	Not Detected	10	Z	1.0
67-72-1	Hexachloroethane	Not Detected	1.0		1.0
193-39-5	Indeno(1,2,3-c,d)pyrene	Not Detected	2.0		1.0
78-59-1	Isophorone	Not Detected	1.0		1.0
121-69-7	N,N-dimethylaniline	Not Detected	5.0		1.0
91-20-3	Naphthalene	Not Detected	1.0		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: AB25588 CENTRAL PIT WATER

Base Neutral Acids with Library Search

Analytical Method: 8270
Extraction Method: 3510

Date Tested: 10/20/2008
Extraction Date: 10/17/2008

Analyst: SMH
Qualifier:

Volume: 1000

CAS #	Compound	Result ug/L	RL	Qualifier	Dilution Factor
98-95-3	Nitrobenzene	Not Detected	2.0		1.0
100-61-8	N-methylaniline	Not Detected	1.0		1.0
67-75-9	N-Nitrosodimethylamine	Not Detected	5.0		1.0
621-64-7	N-Nitrosodi-n-propylamine	Not Detected	2.0		1.0
86-30-6	N-Nitrosodiphenylamine	Not Detected	2.0		1.0
87-86-5	Pentachlorophenol	Not Detected	20		1.0
85-01-8	Phenanthrene	Not Detected	1.0		1.0
108-95-2	Phenol	Not Detected	5.0		1.0
129-00-0	Pyrene	Not Detected	1.0		1.0
110-86-1	Pyridine	Not Detected	20		1.0
632-22-4	Tetramethylurea	Not Detected	1.0		1.0

A library search found no reportable compounds.

Probable petroleum product(s) present.

Florisil Cleanup	Completed	10/24/2008	3620	DT
Gel Permeation Cleanup	Completed	10/22/2008	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: AB25589 CENTRAL PIT #2 (DECANTED)

PCBs as Aroclors

Analytical Method:	8082	Date Tested:	10/25/2008	Analyst:	MF		
Extraction Method:	3510	Extraction Date:	10/20/2008	Qualifier:	KR	Volume:	300
CAS #	Compound	Result ug/L	RL	Qualifier	Dilution Factor		
SURROGATE	#Decachlorobiphenyl#	14.7					
SURROGATE	#Tetrachloro-m-xylene#	62.9					
12674-11-2	Aroclor 1016	Not Detected	0.33		1.0		
11104-28-2	Aroclor 1221	Not Detected	0.33		1.0		
11141-16-5	Aroclor 1232	Not Detected	0.33		1.0		
53469-21-9	Aroclor 1242	Not Detected	0.33		1.0		
12672-29-6	Aroclor 1248	Not Detected	0.33		1.0		
11097-69-1	Aroclor 1254	Not Detected	0.43	K	1.0		
11096-82-5	Aroclor 1260	Not Detected	0.33		1.0		
37324-23-5	Aroclor 1262	Not Detected	0.33		1.0		
11100-14-4	Aroclor 1268	Not Detected	0.33		1.0		

Base Neutral Acids with Library Search

Analytical Method:	8270	Date Tested:	10/20/2008	Analyst:	SMH		
Extraction Method:	3510	Extraction Date:	10/17/2008	Qualifier:	KR	Volume:	300
CAS #	Compound	Result ug/L	RL	Qualifier	Dilution Factor		
SURROGATE	#2-Fluorobiphenyl#	84.7					
SURROGATE	#2,4,6-Tribromophenol#	107					
SURROGATE	#2-Fluorophenol#	54.0		9			
SURROGATE	#Nitrobenzene-D5#	78.8					
SURROGATE	#Phenol-D6#	51.9		9			
SURROGATE	#p-Terphenyl-D14#	85.2					
	*Cholestane	46		LB			
	*Docosane	16		LB			
	*Eicosane	16		LB			
	*Heptadecane	51		LB			
	*Heptyl-pentadecane	15		LB			
	*Hexacosane	21		LB			
	*Methyl-tridecane	16		LB			
	*Tetramethyl-pentadecane	26		LB			
120-82-1	1,2,4-Trichlorobenzene	Not Detected	6.7		1.0		
95-95-4	2,4,5-Trichlorophenol	Not Detected	17		1.0		
88-06-2	2,4,6-Trichlorophenol	Not Detected	13		1.0		
120-83-2	2,4-Dichlorophenol	Not Detected	33		1.0		
105-67-9	2,4-Dimethylphenol	Not Detected	17		1.0		
51-28-5	2,4-Dinitrophenol	Not Detected	83		1.0		
121-14-2	2,4-Dinitrotoluene	Not Detected	17		1.0		
606-20-2	2,6-Dinitrotoluene	Not Detected	17		1.0		
95-51-2	2-Chloroaniline	Not Detected	17		1.0		

CAS# : Chemical Abstract Service Registry Number
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mg / L : milligram / liter (ppm)
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Sample Number: AB25589 CENTRAL PIT #2 (DECANTED)

Base Neutral Acids with Library Search

Analytical Method: 8270		Date Tested: 10/20/2008	Analyst: SMH		
Extraction Method: 3510		Extraction Date: 10/17/2008	Qualifier: KR	Volume: 300	
CAS #	Compound	Result ug/L	RL	Qualifier	Dilution Factor
91-58-7	2-Chloronaphthalene	Not Detected	6.7		1.0
95-57-8	2-Chlorophenol	Not Detected	33		1.0
534-52-1	2-Methyl-4,6-dinitrophenol	Not Detected	67		1.0
91-57-6	2-Methylnaphthalene	Not Detected	17		1.0
95-48-7	2-Methylphenol (o-Cresol)	Not Detected	33		1.0
88-74-4	2-Nitroaniline	Not Detected	67		1.0
88-75-5	2-Nitrophenol	Not Detected	17		1.0
108394-106445	3 & 4-Methylphenol	Not Detected	67		1.0
99-09-2	3-Nitroaniline	Not Detected	67		1.0
101-55-3	4-Bromophenyl phenyl ether	Not Detected	6.7		1.0
59-50-7	4-Chloro-3-methyl-phenol	Not Detected	17		1.0
106-47-8	4-Chloroaniline	Not Detected	33		1.0
7005-72-3	4-Chlorodiphenylether	Not Detected	3.3		1.0
100-01-6	4-Nitroaniline	Not Detected	67		1.0
100-02-7	4-Nitrophenol	Not Detected	83		1.0
83-32-9	Acenaphthene	Not Detected	3.3		1.0
208-96-8	Acenaphthylene	Not Detected	3.3		1.0
62-53-3	Aniline	Not Detected	13		1.0
120-12-7	Anthracene	Not Detected	3.3		1.0
103-33-3	Azobenzene	Not Detected	6.7		1.0
56-55-3	Benzo[a]anthracene	Not Detected	3.3		1.0
50-32-8	Benzo[a]pyrene	Not Detected	3.3		1.0
205-99-2	Benzo[b]fluoranthene	Not Detected	3.3		1.0
191-24-2	Benzo[g,h,i]perylene	Not Detected	3.3		1.0
207-08-9	Benzo[k]fluoranthene	Not Detected	3.3		1.0
100-51-6	Benzyl Alcohol	Not Detected	170		1.0
111-91-1	Bis(2-chloroethoxy)methane	Not Detected	6.7		1.0
111-44-4	Bis(2-chloroethyl)ether	Not Detected	3.3		1.0
108-60-1	Bis(2-chloroisopropyl)ether	Not Detected	3.3	S	1.0
117-81-7	Bis(2-ethylhexyl)phthalate	16	17	T	1.0
85-68-7	Butyl benzyl phthalate	Not Detected	17		1.0
86-74-8	Carbazole	Not Detected	17		1.0
218-01-9	Chrysene	Not Detected	3.3		1.0
53-70-3	Dibenz[a,h]anthracene	Not Detected	6.7		1.0
132-64-9	Dibenzofuran	Not Detected	13		1.0
84-66-2	Diethylphthalate	Not Detected	17		1.0
131-11-3	Dimethyl phthalate	Not Detected	17		1.0
84-74-2	Di-n-butyl phthalate	Not Detected	17		1.0
117-84-0	Di-n-octyl phthalate	Not Detected	17		1.0
206-44-0	Fluoranthene	3.6	3.3		1.0
86-78-7	Fluorene	Not Detected	3.3		1.0

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Sample Number: AB25589 CENTRAL PIT #2 (DECANTED)

Base Neutral Acids with Library Search

Analytical Method:	8270	Date Tested:	10/20/2008	Analyst:	SMH
Extraction Method:	3510	Extraction Date:	10/17/2008	Qualifier:	KR
				Volume:	300
CAS #	Compound	Result ug/L	RL	Qualifier	Dilution Factor
118-74-1	Hexachlorobenzene	Not Detected	3.3		1.0
87-68-3	Hexachlorobutadiene	Not Detected	3.3		1.0
77-47-4	Hexachlorocyclopentadiene	Not Detected	3.3	Z	1.0
67-72-1	Hexachloroethane	Not Detected	3.3		1.0
193-39-5	Indeno(1,2,3-c,d)pyrene	Not Detected	6.7		1.0
78-59-1	Isophorone	Not Detected	3.3		1.0
121-69-7	N,N-dimethylaniline	Not Detected	17		1.0
91-20-3	Naphthalene	Not Detected	3.3		1.0
98-95-3	Nitrobenzene	Not Detected	6.7		1.0
100-61-8	N-methylaniline	Not Detected	3.3		1.0
67-75-9	N-Nitrosodimethylamine	Not Detected	17		1.0
621-64-7	N-Nitrosodi-n-propylamine	Not Detected	6.7		1.0
86-30-6	N-Nitrosodiphenylamine	Not Detected	6.7		1.0
87-86-5	Pentachlorophenol	Not Detected	67		1.0
85-01-8	Phenanthrene	Not Detected	3.3		1.0
108-95-2	Phenol	Not Detected	17		1.0
129-00-0	Pyrene	Not Detected	3.3		1.0
110-86-1	Pyridine	Not Detected	67		1.0
632-22-4	Tetramethylurea	Not Detected	3.3		1.0

Probable petroleum product(s) present.

1 amber decanted and split for BNA & PCBs.

Florisil Cleanup	Completed	10/24/2008	3620	DT
Gel Permeation Cleanup	Completed	10/22/2008	3640	DT

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

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Sample Number: AB25590 3RD BAY SEDS WATER

PCBs as Aroclors

Analytical Method:	8082	Date Tested:	10/27/2008	Analyst:	MF
Extraction Method:	3510	Extraction Date:	10/20/2008	Qualifier:	KR
CAS #	Compound	Result ug/L	RL	Qualifier	Volume: 600 Dilution Factor
SURROGATE	#Decachlorobiphenyl#	Not Applicable		V	
SURROGATE	#Tetrachloro-m-xylene#	Not Applicable		V	
12674-11-2	Aroclor 1016	Not Detected	8.3		50
11104-28-2	Aroclor 1221	Not Detected	8.3		50
11141-16-5	Aroclor 1232	Not Detected	8.3		50
53469-21-9	Aroclor 1242	Not Detected	8.3		50
12672-29-6	Aroclor 1248	Not Detected	8.3		50
11097-69-1	Aroclor 1254	Not Detected	8.3		50
11096-82-5	Aroclor 1260	Not Detected	33		50
37324-23-5	Aroclor 1262	32	8.3		50
11100-14-4	Aroclor 1268	Not Detected	12		50

RLs raised due to matrix interference.

Base Neutral Acids with Library Search

Analytical Method:	8270	Date Tested:	10/20/2008	Analyst:	SMH
Extraction Method:	3510	Extraction Date:	10/17/2008	Qualifier:	KR
CAS #	Compound	Result ug/L	RL	Qualifier	Volume: 500 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	
	*Hexadecane	54		LB	
120-82-1	1,2,4-Trichlorobenzene	Not Detected	80		20
95-95-4	2,4,5-Trichlorophenol	Not Detected	200		20
88-06-2	2,4,6-Trichlorophenol	Not Detected	160		20
120-83-2	2,4-Dichlorophenol	Not Detected	400		20
105-67-9	2,4-Dimethylphenol	Not Detected	200		20
51-28-5	2,4-Dinitrophenol	Not Detected	1000		20
121-14-2	2,4-Dinitrotoluene	Not Detected	200		20
606-20-2	2,6-Dinitrotoluene	Not Detected	200		20
95-51-2	2-Chloroaniline	Not Detected	200		20
91-58-7	2-Chloronaphthalene	Not Detected	80		20
95-57-8	2-Chlorophenol	Not Detected	400		20
534-52-1	2-Methyl-4,6-dinitrophenol	Not Detected	800		20
91-57-6	2-Methylnaphthalene	Not Detected	200		20
95-48-7	2-Methylphenol (o-Cresol)	Not Detected	400		20
88-74-4	2-Nitroaniline	Not Detected	800		20
88-75-5	2-Nitrophenol	Not Detected	200		20

CAS# : Chemical Abstract Service Registry Number
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Sample Number: AB25590 3RD BAY SEDS WATER

Base Neutral Acids with Library Search

Analytical Method:	8270	Date Tested:	10/20/2008	Analyst:	SMH
Extraction Method:	3510	Extraction Date:	10/17/2008	Qualifier:	KR
				Volume:	500
CAS #	Compound	Result ug/L	RL	Qualifier	Dilution Factor
108394,106445	3 & 4-Methylphenol	Not Detected	800		20
99-09-2	3-Nitroaniline	Not Detected	800		20
101-55-3	4-Bromophenyl phenyl ether	Not Detected	80		20
59-50-7	4-Chloro-3-methyl-phenol	Not Detected	200		20
106-47-8	4-Chloroaniline	Not Detected	400		20
7005-72-3	4-Chlorodiphenylether	Not Detected	40		20
100-01-6	4-Nitroaniline	Not Detected	800		20
100-02-7	4-Nitrophenol	Not Detected	1000		20
83-32-9	Acenaphthene	Not Detected	40		20
208-96-8	Acenaphthylene	Not Detected	40		20
62-53-3	Aniline	Not Detected	160		20
120-12-7	Anthracene	Not Detected	40		20
103-33-3	Azobenzene	Not Detected	80		20
56-55-3	Benzo[a]anthracene	Not Detected	40		20
50-32-8	Benzo[a]pyrene	Not Detected	40		20
205-99-2	Benzo[b]fluoranthene	Not Detected	40		20
191-24-2	Benzo[ghi]perylene	Not Detected	40		20
207-08-9	Benzo[k]fluoranthene	Not Detected	40		20
100-51-6	Benzyl Alcohol	Not Detected	2000		20
111-91-1	Bis(2-chloroethoxy)methane	Not Detected	80		20
119-44-4	Bis(2-chloroethyl)ether	Not Detected	40		20
108-60-1	Bis(2-chloroisopropyl)ether	Not Detected	40	5	20
117-81-7	Bis(2-ethylhexyl)phthalate	1000	200		20
85-68-7	Butyl benzyl phthalate	Not Detected	200		20
86-74-8	Carbazole	Not Detected	200		20
218-01-9	Chrysene	Not Detected	40		20
53-70-3	Dibenz[ab]anthracene	Not Detected	80		20
132-64-9	Dibenzofuran	Not Detected	160		20
84-66-2	Diethylphthalate	Not Detected	200		20
131-11-3	Dimethyl phthalate	Not Detected	200		20
84-74-2	Di-n-butyl phthalate	Not Detected	200		20
117-84-0	Di-n-octyl phthalate	Not Detected	200		20
206-44-0	Fluoranthene	Not Detected	40		20
86-73-7	Fluorene	Not Detected	40		20
118-74-1	Hexachlorobenzene	Not Detected	40		20
87-68-3	Hexachlorobutadiene	Not Detected	40		20
77-47-4	Hexachlorocyclopentadiene	Not Detected	400	Z	20
67-72-1	Hexachloroethane	Not Detected	40		20
193-39-5	Indeno(1,2,3-c,d)pyrene	Not Detected	80		20
78-59-1	Isophorone	Not Detected	40		20
121-69-7	N,N-dimethylaniline	Not Detected	200		20

CAS# : Chemical Abstract Service Registry Number

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Sample Number: AB25590 3RD BAY SEDS WATER

Base Neutral Acids with Library Search

Analytical Method:	8270	Date Tested:	10/20/2008	Analyst:	SMH
Extraction Method:	3510	Extraction Date:	10/17/2008	Qualifier:	KR
				Volume:	500
CAS #	Compound	Result ug/L	RL	Qualifier	Dilution Factor
91-20-3	Naphthalene	Not Detected	40		20
98-95-3	Nitrobenzene	Not Detected	80		20
100-61-8	N-methylaniline	Not Detected	40		20
67-75-9	N-Nitrosodimethylamine	Not Detected	200		20
621-64-7	N-Nitrosodi-n-propylamine	Not Detected	80		20
86-30-6	N-Nitrosodiphenylamine	Not Detected	80		20
87-86-5	Pentachlorophenol	Not Detected	800		20
85-01-8	Phenanthrene	Not Detected	40		20
108-95-2	Phenol	Not Detected	200		20
129-00-0	Pyrene	Not Detected	40		20
110-86-1	Pyridine	Not Detected	800		20
632-22-4	Tetramethylurea	Not Detected	40		20

RLs raised due to matrix interference.

Probable petroleum product(s) present.

1 amber split for BNA & PCBs.

Florisil Cleanup	Completed	10/24/2008	3620	DT
Gel Permeation Cleanup	Completed	10/22/2008	3640	DT

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<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.

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