



5301 Northshore Drive
North Little Rock, AR 72118
Telephone: 501-682-0744

Client Report For: Exxon Oil Spill 2013 1928-1938
Attention:
Client Address:

,

Report Date: June 13, 2013
LAB ID: AR13MAY29-06
Comment:

Approved By: _____

Date: June 13, 2013

Client: Special Samples

Client Sample ID: WS-BKG-002

Lab ID: 2013-1928

Collection Date: 5/29/2013

Matrix: Water

Analyses

Volatile Organics by GCMS

EPA 8260C

Batch: 13060316 Run: 1

	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
<i>Dibromofluoromethane (% Recovery)</i>	97.1	70-130			%
<i>1,2-Dichloroethane-d4 (% Recovery)</i>	88.4	70-130			%
<i>Toluene-d8 (% Recovery)</i>	93.7	70-130			%
<i>4-Bromofluorobenzene (% Recovery)</i>	104	70-130			%
Dichlorodifluoromethane	<1.12	1.12	1.12		ug/L
Chloromethane	<0.58	0.58	0.58		ug/L
Vinyl chloride	<0.82	0.82	0.82		ug/L
Bromomethane	<3.9	3.9	3.90		ug/L
Chloroethane	<2.68	2.68	2.68		ug/L
Trichlorofluoromethane	<0.51	0.51	0.51		ug/L
1,1-Dichloroethene	<0.43	0.43	0.43		ug/L
Acetone	<10.5	10.5	10.5		ug/L
Methylene chloride	<2.5	2.5	2.5		ug/L
Methyl tert-butyl ether	<0.83	0.83	0.83		ug/L
trans-1,2-Dichloroethene	<0.59	0.59	0.59		ug/L
1,1-Dichloroethane	<0.42	0.42	0.42		ug/L
Methyl ethyl ketone	<12.8	12.8	12.8		ug/L
cis-1,2-Dichloroethene	<1.15	1.15	1.15		ug/L
2,2-Dichloropropane	<0.81	0.81	0.81		ug/L
Bromochloromethane	<0.66	0.66	0.66		ug/L
Chloroform	<0.27	0.27	0.27		ug/L
1,1,1-Trichloroethane	<0.46	0.46	0.46		ug/L
1,1-Dichloropropene	<0.59	0.59	0.59		ug/L
Carbon tetrachloride	<0.6	0.6	0.6		ug/L
Benzene	<0.66	0.66	0.66		ug/L
1,2-Dichloroethane	<1.15	1.15	1.15		ug/L
Trichloroethene	<0.6	0.6	0.60		ug/L
1,2-Dichloropropane	<0.98	0.98	0.98		ug/L
Dibromomethane	<1.78	1.78	1.78		ug/L
Bromodichloromethane	<0.65	0.65	0.65		ug/L
cis-1,3-Dichloropropene	<0.86	0.86	0.86		ug/L

Methyl isobutyl ketone	<8.1	8.1	8.10	ug/L
Toluene	<0.57	0.57	0.57	ug/L
trans-1,3-Dichloropropene	<0.84	0.84	0.84	ug/L
1,1,2-Trichloroethane	<0.78	0.78	0.78	ug/L
2-Hexanone	<9.5	9.5	9.5	ug/L
Tetrachloroethene	<0.96	0.96	0.96	ug/L
1,3-Dichloropropane	<0.94	0.94	0.94	ug/L
Dibromochloromethane	<1.25	1.25	1.25	ug/L
1,2-Dibromoethane (EDB)	<0.68	0.68	0.68	ug/L
Chlorobenzene	<0.62	0.62	0.62	ug/L
Ethylbenzene	<0.51	0.51	0.51	ug/L
1,1,1,2-Tetrachloroethane	<0.57	0.57	0.57	ug/L
m,p-Xylene	<1.2	1.2	1.2	ug/L
o-Xylene	<0.5	0.5	0.5	ug/L
Styrene	<0.53	0.53	0.53	ug/L
Bromoform	<1.56	1.56	1.56	ug/L
Isopropylbenzene	<0.59	0.59	0.59	ug/L
1,1,2,2-Tetrachloroethane	<0.39	0.39	0.39	ug/L
1,2,3-Trichloropropane	<1.83	1.83	1.83	ug/L
n-Propylbenzene	<0.49	0.49	0.49	ug/L
Bromobenzene	<0.5	0.5	0.5	ug/L
1,3,5-Trimethylbenzene	<0.3	0.3	0.30	ug/L
2-Chlorotoluene	<0.66	0.66	0.66	ug/L
4-Chlorotoluene	<0.8	0.8	0.80	ug/L
tert-Butylbenzene	<0.85	0.85	0.85	ug/L
1,2,4-Trimethylbenzene	<0.46	0.46	0.46	ug/L
sec-Butylbenzene	<0.63	0.63	0.63	ug/L
p-Isopropyltoluene	<0.59	0.59	0.59	ug/L
1,3-Dichlorobenzene	<0.7	0.7	0.70	ug/L
1,4-Dichlorobenzene	<0.53	0.53	0.53	ug/L
n-Butylbenzene	<0.72	0.72	0.72	ug/L
1,2-Dichlorobenzene	<0.7	0.7	0.70	ug/L
1,2-Dibromo-3-chloropropane	<0.86	0.86	0.86	ug/L
1,2,4-Trichlorobenzene	<1.14	1.14	1.14	ug/L
Naphthalene	<1.53	1.53	1.53	ug/L
1,2,3-Trichlorobenzene	<1.3	1.3	1.3	ug/L
Dilution Factor	1			
Analyzed By	Jeff Ruehr			
Analysis Date/Time	5/30/2013 4:31 PM			

Client: Special Samples

Client Sample ID: WS-001

Lab ID: 2013-1929

Collection Date: 5/29/2013

Matrix: Water

Analyses

Volatile Organics by GCMS

EPA 8260C

Batch: 13060316 Run: 1

	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
<i>Dibromofluoromethane (% Recovery)</i>	99.9	70-130			%
<i>1,2-Dichloroethane-d4 (% Recovery)</i>	93.1	70-130			%
<i>Toluene-d8 (% Recovery)</i>	94.5	70-130			%
<i>4-Bromofluorobenzene (% Recovery)</i>	102	70-130			%
Dichlorodifluoromethane	<1.12	1.12	1.12		ug/L
Chloromethane	<0.58	0.58	0.58		ug/L
Vinyl chloride	<0.82	0.82	0.82		ug/L
Bromomethane	<3.9	3.9	3.90		ug/L
Chloroethane	<2.68	2.68	2.68		ug/L
Trichlorofluoromethane	<0.51	0.51	0.51		ug/L
1,1-Dichloroethene	<0.43	0.43	0.43		ug/L
Acetone	<10.5	10.5	10.5		ug/L
Methylene chloride	<2.5	2.5	2.5		ug/L
Methyl tert-butyl ether	<0.83	0.83	0.83		ug/L
trans-1,2-Dichloroethene	<0.59	0.59	0.59		ug/L
1,1-Dichloroethane	<0.42	0.42	0.42		ug/L
Methyl ethyl ketone	<12.8	12.8	12.8		ug/L
cis-1,2-Dichloroethene	<1.15	1.15	1.15		ug/L
2,2-Dichloropropane	<0.81	0.81	0.81		ug/L
Bromochloromethane	<0.66	0.66	0.66		ug/L
Chloroform	<0.27	0.27	0.27		ug/L
1,1,1-Trichloroethane	<0.46	0.46	0.46		ug/L
1,1-Dichloropropene	<0.59	0.59	0.59		ug/L
Carbon tetrachloride	<0.6	0.6	0.6		ug/L
Benzene	<0.66	0.66	0.66		ug/L
1,2-Dichloroethane	<1.15	1.15	1.15		ug/L
Trichloroethene	<0.6	0.6	0.60		ug/L
1,2-Dichloropropane	<0.98	0.98	0.98		ug/L
Dibromomethane	<1.78	1.78	1.78		ug/L
Bromodichloromethane	<0.65	0.65	0.65		ug/L
cis-1,3-Dichloropropene	<0.86	0.86	0.86		ug/L
Methyl isobutyl ketone	<8.1	8.1	8.10		ug/L

Toluene	<0.57	0.57	0.57	ug/L
trans-1,3-Dichloropropene	<0.84	0.84	0.84	ug/L
1,1,2-Trichloroethane	<0.78	0.78	0.78	ug/L
2-Hexanone	<9.5	9.5	9.5	ug/L
Tetrachloroethene	<0.96	0.96	0.96	ug/L
1,3-Dichloropropane	<0.94	0.94	0.94	ug/L
Dibromochloromethane	<1.25	1.25	1.25	ug/L
1,2-Dibromoethane (EDB)	<0.68	0.68	0.68	ug/L
Chlorobenzene	<0.62	0.62	0.62	ug/L
Ethylbenzene	<0.51	0.51	0.51	ug/L
1,1,1,2-Tetrachloroethane	<0.57	0.57	0.57	ug/L
m,p-Xylene	<1.2	1.2	1.2	ug/L
o-Xylene	<0.5	0.5	0.5	ug/L
Styrene	<0.53	0.53	0.53	ug/L
Bromoform	<1.56	1.56	1.56	ug/L
Isopropylbenzene	<0.59	0.59	0.59	ug/L
1,1,2,2-Tetrachloroethane	<0.39	0.39	0.39	ug/L
1,2,3-Trichloropropane	<1.83	1.83	1.83	ug/L
n-Propylbenzene	<0.49	0.49	0.49	ug/L
Bromobenzene	<0.5	0.5	0.5	ug/L
1,3,5-Trimethylbenzene	<0.3	0.3	0.30	ug/L
2-Chlorotoluene	<0.66	0.66	0.66	ug/L
4-Chlorotoluene	<0.8	0.8	0.80	ug/L
tert-Butylbenzene	<0.85	0.85	0.85	ug/L
1,2,4-Trimethylbenzene	<0.46	0.46	0.46	ug/L
sec-Butylbenzene	<0.63	0.63	0.63	ug/L
p-Isopropyltoluene	<0.59	0.59	0.59	ug/L
1,3-Dichlorobenzene	<0.7	0.7	0.70	ug/L
1,4-Dichlorobenzene	<0.53	0.53	0.53	ug/L
n-Butylbenzene	<0.72	0.72	0.72	ug/L
1,2-Dichlorobenzene	<0.7	0.7	0.70	ug/L
1,2-Dibromo-3-chloropropane	<0.86	0.86	0.86	ug/L
1,2,4-Trichlorobenzene	<1.14	1.14	1.14	ug/L
Naphthalene	<1.53	1.53	1.53	ug/L
1,2,3-Trichlorobenzene	<1.3	1.3	1.3	ug/L
Dilution Factor	1			
Analyzed By	Jeff Ruehr			
Analysis Date/Time	5/30/2013 4:56 PM			

Arkansas Department of Environmental Quality
5301 Northshore Drive
North Little Rock, AR 72118

Laboratory Contact: Jeff Ruehr
Ruehr@adeq.state.ar.us
501-682-0955

Client: Special Samples

Client Sample ID: WS-002

Lab ID: 2013-1930

Collection Date: 5/29/2013

Matrix: Water

Analyses

Volatile Organics by GCMS

EPA 8260C

Batch: 13060316 Run: 1

	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
<i>Dibromofluoromethane (% Recovery)</i>	97.8	70-130			%
<i>1,2-Dichloroethane-d4 (% Recovery)</i>	90.1	70-130			%
<i>Toluene-d8 (% Recovery)</i>	94.5	70-130			%
<i>4-Bromofluorobenzene (% Recovery)</i>	102	70-130			%
Dichlorodifluoromethane	<1.12	1.12	1.12		ug/L
Chloromethane	<0.58	0.58	0.58		ug/L
Vinyl chloride	<0.82	0.82	0.82		ug/L
Bromomethane	<3.9	3.9	3.90		ug/L
Chloroethane	<2.68	2.68	2.68		ug/L
Trichlorofluoromethane	<0.51	0.51	0.51		ug/L
1,1-Dichloroethene	<0.43	0.43	0.43		ug/L
Acetone	<10.5	10.5	10.5		ug/L
Methylene chloride	<2.5	2.5	2.5		ug/L
Methyl tert-butyl ether	<0.83	0.83	0.83		ug/L
trans-1,2-Dichloroethene	<0.59	0.59	0.59		ug/L
1,1-Dichloroethane	<0.42	0.42	0.42		ug/L
Methyl ethyl ketone	<12.8	12.8	12.8		ug/L
cis-1,2-Dichloroethene	<1.15	1.15	1.15		ug/L
2,2-Dichloropropane	<0.81	0.81	0.81		ug/L
Bromochloromethane	<0.66	0.66	0.66		ug/L
Chloroform	<0.27	0.27	0.27		ug/L
1,1,1-Trichloroethane	<0.46	0.46	0.46		ug/L
1,1-Dichloropropene	<0.59	0.59	0.59		ug/L
Carbon tetrachloride	<0.6	0.6	0.6		ug/L
Benzene	<0.66	0.66	0.66		ug/L
1,2-Dichloroethane	<1.15	1.15	1.15		ug/L
Trichloroethene	<0.6	0.6	0.60		ug/L
1,2-Dichloropropane	<0.98	0.98	0.98		ug/L
Dibromomethane	<1.78	1.78	1.78		ug/L
Bromodichloromethane	<0.65	0.65	0.65		ug/L
cis-1,3-Dichloropropene	<0.86	0.86	0.86		ug/L
Methyl isobutyl ketone	<8.1	8.1	8.10		ug/L

Toluene	<0.57	0.57	0.57	ug/L
trans-1,3-Dichloropropene	<0.84	0.84	0.84	ug/L
1,1,2-Trichloroethane	<0.78	0.78	0.78	ug/L
2-Hexanone	<9.5	9.5	9.5	ug/L
Tetrachloroethene	<0.96	0.96	0.96	ug/L
1,3-Dichloropropane	<0.94	0.94	0.94	ug/L
Dibromochloromethane	<1.25	1.25	1.25	ug/L
1,2-Dibromoethane (EDB)	<0.68	0.68	0.68	ug/L
Chlorobenzene	<0.62	0.62	0.62	ug/L
Ethylbenzene	<0.51	0.51	0.51	ug/L
1,1,1,2-Tetrachloroethane	<0.57	0.57	0.57	ug/L
m,p-Xylene	<1.2	1.2	1.2	ug/L
o-Xylene	<0.5	0.5	0.5	ug/L
Styrene	<0.53	0.53	0.53	ug/L
Bromoform	<1.56	1.56	1.56	ug/L
Isopropylbenzene	<0.59	0.59	0.59	ug/L
1,1,2,2-Tetrachloroethane	<0.39	0.39	0.39	ug/L
1,2,3-Trichloropropane	<1.83	1.83	1.83	ug/L
n-Propylbenzene	<0.49	0.49	0.49	ug/L
Bromobenzene	<0.5	0.5	0.5	ug/L
1,3,5-Trimethylbenzene	<0.3	0.3	0.30	ug/L
2-Chlorotoluene	<0.66	0.66	0.66	ug/L
4-Chlorotoluene	<0.8	0.8	0.80	ug/L
tert-Butylbenzene	<0.85	0.85	0.85	ug/L
1,2,4-Trimethylbenzene	<0.46	0.46	0.46	ug/L
sec-Butylbenzene	<0.63	0.63	0.63	ug/L
p-Isopropyltoluene	<0.59	0.59	0.59	ug/L
1,3-Dichlorobenzene	<0.7	0.7	0.70	ug/L
1,4-Dichlorobenzene	<0.53	0.53	0.53	ug/L
n-Butylbenzene	<0.72	0.72	0.72	ug/L
1,2-Dichlorobenzene	<0.7	0.7	0.70	ug/L
1,2-Dibromo-3-chloropropane	<0.86	0.86	0.86	ug/L
1,2,4-Trichlorobenzene	<1.14	1.14	1.14	ug/L
Naphthalene	<1.53	1.53	1.53	ug/L
1,2,3-Trichlorobenzene	<1.3	1.3	1.3	ug/L
Dilution Factor	1			
Analyzed By	Jeff Ruehr			
Analysis Date/Time	5/30/2013 5:21 PM			

Client: Special Samples

Client Sample ID: WS-003

Lab ID: 2013-1931

Collection Date: 5/29/2013

Matrix: Water

Analyses

Volatile Organics by GCMS

EPA 8260C

Batch: 13060316 Run: 1

	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
<i>Dibromofluoromethane (% Recovery)</i>	98.7	70-130			%
<i>1,2-Dichloroethane-d4 (% Recovery)</i>	91.5	70-130			%
<i>Toluene-d8 (% Recovery)</i>	90.2	70-130			%
<i>4-Bromofluorobenzene (% Recovery)</i>	105	70-130			%
Dichlorodifluoromethane	<1.12	1.12	1.12		ug/L
Chloromethane	<0.58	0.58	0.58		ug/L
Vinyl chloride	<0.82	0.82	0.82		ug/L
Bromomethane	<3.9	3.9	3.90		ug/L
Chloroethane	<2.68	2.68	2.68		ug/L
Trichlorofluoromethane	<0.51	0.51	0.51		ug/L
1,1-Dichloroethene	<0.43	0.43	0.43		ug/L
Acetone	<10.5	10.5	10.5		ug/L
Methylene chloride	<2.5	2.5	2.5		ug/L
Methyl tert-butyl ether	<0.83	0.83	0.83		ug/L
trans-1,2-Dichloroethene	<0.59	0.59	0.59		ug/L
1,1-Dichloroethane	<0.42	0.42	0.42		ug/L
Methyl ethyl ketone	<12.8	12.8	12.8		ug/L
cis-1,2-Dichloroethene	<1.15	1.15	1.15		ug/L
2,2-Dichloropropane	<0.81	0.81	0.81		ug/L
Bromochloromethane	<0.66	0.66	0.66		ug/L
Chloroform	<0.27	0.27	0.27		ug/L
1,1,1-Trichloroethane	<0.46	0.46	0.46		ug/L
1,1-Dichloropropene	<0.59	0.59	0.59		ug/L
Carbon tetrachloride	<0.6	0.6	0.6		ug/L
Benzene	<0.66	0.66	0.66		ug/L
1,2-Dichloroethane	<1.15	1.15	1.15		ug/L
Trichloroethene	<0.6	0.6	0.60		ug/L
1,2-Dichloropropane	<0.98	0.98	0.98		ug/L
Dibromomethane	<1.78	1.78	1.78		ug/L
Bromodichloromethane	<0.65	0.65	0.65		ug/L
cis-1,3-Dichloropropene	<0.86	0.86	0.86		ug/L
Methyl isobutyl ketone	<8.1	8.1	8.10		ug/L

Toluene	0.576	0.57	0.57	ug/L
trans-1,3-Dichloropropene	<0.84	0.84	0.84	ug/L
1,1,2-Trichloroethane	<0.78	0.78	0.78	ug/L
2-Hexanone	<9.5	9.5	9.5	ug/L
Tetrachloroethene	<0.96	0.96	0.96	ug/L
1,3-Dichloropropane	<0.94	0.94	0.94	ug/L
Dibromochloromethane	<1.25	1.25	1.25	ug/L
1,2-Dibromoethane (EDB)	<0.68	0.68	0.68	ug/L
Chlorobenzene	<0.62	0.62	0.62	ug/L
Ethylbenzene	<0.51	0.51	0.51	ug/L
1,1,1,2-Tetrachloroethane	<0.57	0.57	0.57	ug/L
m,p-Xylene	<1.2	1.2	1.2	ug/L
o-Xylene	<0.5	0.5	0.5	ug/L
Styrene	<0.53	0.53	0.53	ug/L
Bromoform	<1.56	1.56	1.56	ug/L
Isopropylbenzene	<0.59	0.59	0.59	ug/L
1,1,2,2-Tetrachloroethane	<0.39	0.39	0.39	ug/L
1,2,3-Trichloropropane	<1.83	1.83	1.83	ug/L
n-Propylbenzene	<0.49	0.49	0.49	ug/L
Bromobenzene	<0.5	0.5	0.5	ug/L
1,3,5-Trimethylbenzene	<0.3	0.3	0.30	ug/L
2-Chlorotoluene	<0.66	0.66	0.66	ug/L
4-Chlorotoluene	<0.8	0.8	0.80	ug/L
tert-Butylbenzene	<0.85	0.85	0.85	ug/L
1,2,4-Trimethylbenzene	<0.46	0.46	0.46	ug/L
sec-Butylbenzene	<0.63	0.63	0.63	ug/L
p-Isopropyltoluene	<0.59	0.59	0.59	ug/L
1,3-Dichlorobenzene	<0.7	0.7	0.70	ug/L
1,4-Dichlorobenzene	<0.53	0.53	0.53	ug/L
n-Butylbenzene	<0.72	0.72	0.72	ug/L
1,2-Dichlorobenzene	<0.7	0.7	0.70	ug/L
1,2-Dibromo-3-chloropropane	<0.86	0.86	0.86	ug/L
1,2,4-Trichlorobenzene	<1.14	1.14	1.14	ug/L
Naphthalene	<1.53	1.53	1.53	ug/L
1,2,3-Trichlorobenzene	<1.3	1.3	1.3	ug/L
Dilution Factor	1			
Analyzed By	Jeff Ruehr			
Analysis Date/Time	5/30/2013 7:52 PM			

Arkansas Department of Environmental Quality
5301 Northshore Drive
North Little Rock, AR 72118

Laboratory Contact: Jeff Ruehr
Ruehr@adeq.state.ar.us
501-682-0955

Client: Special Samples

Client Sample ID: WS-004

Lab ID: 2013-1932

Collection Date: 5/29/2013

Matrix: Water

Analyses

Volatile Organics by GCMS

EPA 8260C

Batch: 13060316 Run: 1

	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
<i>Dibromofluoromethane (% Recovery)</i>	101	70-130			%
<i>1,2-Dichloroethane-d4 (% Recovery)</i>	93.4	70-130			%
<i>Toluene-d8 (% Recovery)</i>	92.7	70-130			%
<i>4-Bromofluorobenzene (% Recovery)</i>	109	70-130			%
Dichlorodifluoromethane	<1.12	1.12	1.12		ug/L
Chloromethane	<0.58	0.58	0.58		ug/L
Vinyl chloride	<0.82	0.82	0.82		ug/L
Bromomethane	<3.9	3.9	3.90		ug/L
Chloroethane	<2.68	2.68	2.68		ug/L
Trichlorofluoromethane	<0.51	0.51	0.51		ug/L
1,1-Dichloroethene	<0.43	0.43	0.43		ug/L
Acetone	<10.5	10.5	10.5		ug/L
Methylene chloride	<2.5	2.5	2.5		ug/L
Methyl tert-butyl ether	<0.83	0.83	0.83		ug/L
trans-1,2-Dichloroethene	<0.59	0.59	0.59		ug/L
1,1-Dichloroethane	<0.42	0.42	0.42		ug/L
Methyl ethyl ketone	<12.8	12.8	12.8		ug/L
cis-1,2-Dichloroethene	<1.15	1.15	1.15		ug/L
2,2-Dichloropropane	<0.81	0.81	0.81		ug/L
Bromochloromethane	<0.66	0.66	0.66		ug/L
Chloroform	<0.27	0.27	0.27		ug/L
1,1,1-Trichloroethane	<0.46	0.46	0.46		ug/L
1,1-Dichloropropene	<0.59	0.59	0.59		ug/L
Carbon tetrachloride	<0.6	0.6	0.6		ug/L
Benzene	<0.66	0.66	0.66		ug/L
1,2-Dichloroethane	<1.15	1.15	1.15		ug/L
Trichloroethene	<0.6	0.6	0.60		ug/L
1,2-Dichloropropane	<0.98	0.98	0.98		ug/L
Dibromomethane	<1.78	1.78	1.78		ug/L
Bromodichloromethane	<0.65	0.65	0.65		ug/L
cis-1,3-Dichloropropene	<0.86	0.86	0.86		ug/L
Methyl isobutyl ketone	<8.1	8.1	8.10		ug/L

Toluene	<0.57	0.57	0.57	ug/L
trans-1,3-Dichloropropene	<0.84	0.84	0.84	ug/L
1,1,2-Trichloroethane	<0.78	0.78	0.78	ug/L
2-Hexanone	<9.5	9.5	9.5	ug/L
Tetrachloroethene	<0.96	0.96	0.96	ug/L
1,3-Dichloropropane	<0.94	0.94	0.94	ug/L
Dibromochloromethane	<1.25	1.25	1.25	ug/L
1,2-Dibromoethane (EDB)	<0.68	0.68	0.68	ug/L
Chlorobenzene	<0.62	0.62	0.62	ug/L
Ethylbenzene	<0.51	0.51	0.51	ug/L
1,1,1,2-Tetrachloroethane	<0.57	0.57	0.57	ug/L
m,p-Xylene	<1.2	1.2	1.2	ug/L
o-Xylene	<0.5	0.5	0.5	ug/L
Styrene	<0.53	0.53	0.53	ug/L
Bromoform	<1.56	1.56	1.56	ug/L
Isopropylbenzene	<0.59	0.59	0.59	ug/L
1,1,2,2-Tetrachloroethane	<0.39	0.39	0.39	ug/L
1,2,3-Trichloropropane	<1.83	1.83	1.83	ug/L
n-Propylbenzene	<0.49	0.49	0.49	ug/L
Bromobenzene	<0.5	0.5	0.5	ug/L
1,3,5-Trimethylbenzene	<0.3	0.3	0.30	ug/L
2-Chlorotoluene	<0.66	0.66	0.66	ug/L
4-Chlorotoluene	<0.8	0.8	0.80	ug/L
tert-Butylbenzene	<0.85	0.85	0.85	ug/L
1,2,4-Trimethylbenzene	<0.46	0.46	0.46	ug/L
sec-Butylbenzene	<0.63	0.63	0.63	ug/L
p-Isopropyltoluene	<0.59	0.59	0.59	ug/L
1,3-Dichlorobenzene	<0.7	0.7	0.70	ug/L
1,4-Dichlorobenzene	<0.53	0.53	0.53	ug/L
n-Butylbenzene	<0.72	0.72	0.72	ug/L
1,2-Dichlorobenzene	<0.7	0.7	0.70	ug/L
1,2-Dibromo-3-chloropropane	<0.86	0.86	0.86	ug/L
1,2,4-Trichlorobenzene	<1.14	1.14	1.14	ug/L
Naphthalene	<1.53	1.53	1.53	ug/L
1,2,3-Trichlorobenzene	<1.3	1.3	1.3	ug/L
Dilution Factor	1			
Analyzed By	Jeff Ruehr			
Analysis Date/Time	5/30/2013 5:46 PM			

Client: Special Samples

Client Sample ID: WS-006

Lab ID: 2013-1933

Collection Date: 5/29/2013

Matrix: Water

Analyses

Volatile Organics by GCMS

EPA 8260C

Batch: 13060316 Run: 1

	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
<i>Dibromofluoromethane (% Recovery)</i>	97.8	70-130			%
<i>1,2-Dichloroethane-d4 (% Recovery)</i>	91.2	70-130			%
<i>Toluene-d8 (% Recovery)</i>	94.2	70-130			%
<i>4-Bromofluorobenzene (% Recovery)</i>	104	70-130			%
Dichlorodifluoromethane	<1.12	1.12	1.12		ug/L
Chloromethane	<0.58	0.58	0.58		ug/L
Vinyl chloride	<0.82	0.82	0.82		ug/L
Bromomethane	<3.9	3.9	3.90		ug/L
Chloroethane	<2.68	2.68	2.68		ug/L
Trichlorofluoromethane	<0.51	0.51	0.51		ug/L
1,1-Dichloroethene	<0.43	0.43	0.43		ug/L
Acetone	<10.5	10.5	10.5		ug/L
Methylene chloride	<2.5	2.5	2.5		ug/L
Methyl tert-butyl ether	<0.83	0.83	0.83		ug/L
trans-1,2-Dichloroethene	<0.59	0.59	0.59		ug/L
1,1-Dichloroethane	<0.42	0.42	0.42		ug/L
Methyl ethyl ketone	<12.8	12.8	12.8		ug/L
cis-1,2-Dichloroethene	<1.15	1.15	1.15		ug/L
2,2-Dichloropropane	<0.81	0.81	0.81		ug/L
Bromochloromethane	<0.66	0.66	0.66		ug/L
Chloroform	<0.27	0.27	0.27		ug/L
1,1,1-Trichloroethane	<0.46	0.46	0.46		ug/L
1,1-Dichloropropene	<0.59	0.59	0.59		ug/L
Carbon tetrachloride	<0.6	0.6	0.6		ug/L
Benzene	<0.66	0.66	0.66		ug/L
1,2-Dichloroethane	<1.15	1.15	1.15		ug/L
Trichloroethene	<0.6	0.6	0.60		ug/L
1,2-Dichloropropane	<0.98	0.98	0.98		ug/L
Dibromomethane	<1.78	1.78	1.78		ug/L
Bromodichloromethane	<0.65	0.65	0.65		ug/L
cis-1,3-Dichloropropene	<0.86	0.86	0.86		ug/L
Methyl isobutyl ketone	<8.1	8.1	8.10		ug/L

Toluene	0.573	0.57	0.57	ug/L
trans-1,3-Dichloropropene	<0.84	0.84	0.84	ug/L
1,1,2-Trichloroethane	<0.78	0.78	0.78	ug/L
2-Hexanone	<9.5	9.5	9.5	ug/L
Tetrachloroethene	<0.96	0.96	0.96	ug/L
1,3-Dichloropropane	<0.94	0.94	0.94	ug/L
Dibromochloromethane	<1.25	1.25	1.25	ug/L
1,2-Dibromoethane (EDB)	<0.68	0.68	0.68	ug/L
Chlorobenzene	<0.62	0.62	0.62	ug/L
Ethylbenzene	<0.51	0.51	0.51	ug/L
1,1,1,2-Tetrachloroethane	<0.57	0.57	0.57	ug/L
m,p-Xylene	<1.2	1.2	1.2	ug/L
o-Xylene	<0.5	0.5	0.5	ug/L
Styrene	<0.53	0.53	0.53	ug/L
Bromoform	<1.56	1.56	1.56	ug/L
Isopropylbenzene	<0.59	0.59	0.59	ug/L
1,1,2,2-Tetrachloroethane	<0.39	0.39	0.39	ug/L
1,2,3-Trichloropropane	<1.83	1.83	1.83	ug/L
n-Propylbenzene	<0.49	0.49	0.49	ug/L
Bromobenzene	<0.5	0.5	0.5	ug/L
1,3,5-Trimethylbenzene	<0.3	0.3	0.30	ug/L
2-Chlorotoluene	<0.66	0.66	0.66	ug/L
4-Chlorotoluene	<0.8	0.8	0.80	ug/L
tert-Butylbenzene	<0.85	0.85	0.85	ug/L
1,2,4-Trimethylbenzene	<0.46	0.46	0.46	ug/L
sec-Butylbenzene	<0.63	0.63	0.63	ug/L
p-Isopropyltoluene	<0.59	0.59	0.59	ug/L
1,3-Dichlorobenzene	<0.7	0.7	0.70	ug/L
1,4-Dichlorobenzene	<0.53	0.53	0.53	ug/L
n-Butylbenzene	<0.72	0.72	0.72	ug/L
1,2-Dichlorobenzene	<0.7	0.7	0.70	ug/L
1,2-Dibromo-3-chloropropane	<0.86	0.86	0.86	ug/L
1,2,4-Trichlorobenzene	<1.14	1.14	1.14	ug/L
Naphthalene	<1.53	1.53	1.53	ug/L
1,2,3-Trichlorobenzene	<1.3	1.3	1.3	ug/L
Dilution Factor	1			
Analyzed By	Jeff Ruehr			
Analysis Date/Time	5/30/2013 6:11 PM			

Client: Special Samples

Client Sample ID: WS-007

Lab ID: 2013-1934

Collection Date: 5/29/2013

Matrix: Water

Analyses

Volatile Organics by GCMS

EPA 8260C

Batch: 13060316 Run: 1

	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
<i>Dibromofluoromethane (% Recovery)</i>	101	70-130			%
<i>1,2-Dichloroethane-d4 (% Recovery)</i>	92.7	70-130			%
<i>Toluene-d8 (% Recovery)</i>	95.5	70-130			%
<i>4-Bromofluorobenzene (% Recovery)</i>	105	70-130			%
Dichlorodifluoromethane	<1.12	1.12	1.12		ug/L
Chloromethane	<0.58	0.58	0.58		ug/L
Vinyl chloride	<0.82	0.82	0.82		ug/L
Bromomethane	<3.9	3.9	3.90		ug/L
Chloroethane	<2.68	2.68	2.68		ug/L
Trichlorofluoromethane	<0.51	0.51	0.51		ug/L
1,1-Dichloroethene	<0.43	0.43	0.43		ug/L
Acetone	<10.5	10.5	10.5		ug/L
Methylene chloride	<2.5	2.5	2.5		ug/L
Methyl tert-butyl ether	<0.83	0.83	0.83		ug/L
trans-1,2-Dichloroethene	<0.59	0.59	0.59		ug/L
1,1-Dichloroethane	<0.42	0.42	0.42		ug/L
Methyl ethyl ketone	<12.8	12.8	12.8		ug/L
cis-1,2-Dichloroethene	<1.15	1.15	1.15		ug/L
2,2-Dichloropropane	<0.81	0.81	0.81		ug/L
Bromochloromethane	<0.66	0.66	0.66		ug/L
Chloroform	<0.27	0.27	0.27		ug/L
1,1,1-Trichloroethane	<0.46	0.46	0.46		ug/L
1,1-Dichloropropene	<0.59	0.59	0.59		ug/L
Carbon tetrachloride	<0.6	0.6	0.6		ug/L
Benzene	<0.66	0.66	0.66		ug/L
1,2-Dichloroethane	<1.15	1.15	1.15		ug/L
Trichloroethene	<0.6	0.6	0.60		ug/L
1,2-Dichloropropane	<0.98	0.98	0.98		ug/L
Dibromomethane	<1.78	1.78	1.78		ug/L
Bromodichloromethane	<0.65	0.65	0.65		ug/L
cis-1,3-Dichloropropene	<0.86	0.86	0.86		ug/L
Methyl isobutyl ketone	<8.1	8.1	8.10		ug/L

Toluene	<0.57	0.57	0.57	ug/L
trans-1,3-Dichloropropene	<0.84	0.84	0.84	ug/L
1,1,2-Trichloroethane	<0.78	0.78	0.78	ug/L
2-Hexanone	<9.5	9.5	9.5	ug/L
Tetrachloroethene	<0.96	0.96	0.96	ug/L
1,3-Dichloropropane	<0.94	0.94	0.94	ug/L
Dibromochloromethane	<1.25	1.25	1.25	ug/L
1,2-Dibromoethane (EDB)	<0.68	0.68	0.68	ug/L
Chlorobenzene	<0.62	0.62	0.62	ug/L
Ethylbenzene	<0.51	0.51	0.51	ug/L
1,1,1,2-Tetrachloroethane	<0.57	0.57	0.57	ug/L
m,p-Xylene	<1.2	1.2	1.2	ug/L
o-Xylene	<0.5	0.5	0.5	ug/L
Styrene	<0.53	0.53	0.53	ug/L
Bromoform	<1.56	1.56	1.56	ug/L
Isopropylbenzene	<0.59	0.59	0.59	ug/L
1,1,2,2-Tetrachloroethane	<0.39	0.39	0.39	ug/L
1,2,3-Trichloropropane	<1.83	1.83	1.83	ug/L
n-Propylbenzene	<0.49	0.49	0.49	ug/L
Bromobenzene	<0.5	0.5	0.5	ug/L
1,3,5-Trimethylbenzene	<0.3	0.3	0.30	ug/L
2-Chlorotoluene	<0.66	0.66	0.66	ug/L
4-Chlorotoluene	<0.8	0.8	0.80	ug/L
tert-Butylbenzene	<0.85	0.85	0.85	ug/L
1,2,4-Trimethylbenzene	<0.46	0.46	0.46	ug/L
sec-Butylbenzene	<0.63	0.63	0.63	ug/L
p-Isopropyltoluene	<0.59	0.59	0.59	ug/L
1,3-Dichlorobenzene	<0.7	0.7	0.70	ug/L
1,4-Dichlorobenzene	<0.53	0.53	0.53	ug/L
n-Butylbenzene	<0.72	0.72	0.72	ug/L
1,2-Dichlorobenzene	<0.7	0.7	0.70	ug/L
1,2-Dibromo-3-chloropropane	<0.86	0.86	0.86	ug/L
1,2,4-Trichlorobenzene	<1.14	1.14	1.14	ug/L
Naphthalene	<1.53	1.53	1.53	ug/L
1,2,3-Trichlorobenzene	<1.3	1.3	1.3	ug/L
Dilution Factor	1			
Analyzed By	Jeff Ruehr			
Analysis Date/Time	5/30/2013 6:36 PM			

Arkansas Department of Environmental Quality
5301 Northshore Drive
North Little Rock, AR 72118

Laboratory Contact: Jeff Ruehr
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Client: Special Samples

Client Sample ID: WS-008

Lab ID: 2013-1935

Collection Date: 5/29/2013

Matrix: Water

Analyses

Volatile Organics by GCMS

EPA 8260C

Batch: 13060316 Run: 1

	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
<i>Dibromofluoromethane (% Recovery)</i>	96.6	70-130			%
<i>1,2-Dichloroethane-d4 (% Recovery)</i>	89.8	70-130			%
<i>Toluene-d8 (% Recovery)</i>	91.9	70-130			%
<i>4-Bromofluorobenzene (% Recovery)</i>	100	70-130			%
Dichlorodifluoromethane	<1.12	1.12	1.12		ug/L
Chloromethane	<0.58	0.58	0.58		ug/L
Vinyl chloride	<0.82	0.82	0.82		ug/L
Bromomethane	<3.9	3.9	3.90		ug/L
Chloroethane	<2.68	2.68	2.68		ug/L
Trichlorofluoromethane	<0.51	0.51	0.51		ug/L
1,1-Dichloroethene	<0.43	0.43	0.43		ug/L
Acetone	<10.5	10.5	10.5		ug/L
Methylene chloride	<2.5	2.5	2.5		ug/L
Methyl tert-butyl ether	<0.83	0.83	0.83		ug/L
trans-1,2-Dichloroethene	<0.59	0.59	0.59		ug/L
1,1-Dichloroethane	<0.42	0.42	0.42		ug/L
Methyl ethyl ketone	<12.8	12.8	12.8		ug/L
cis-1,2-Dichloroethene	<1.15	1.15	1.15		ug/L
2,2-Dichloropropane	<0.81	0.81	0.81		ug/L
Bromochloromethane	<0.66	0.66	0.66		ug/L
Chloroform	<0.27	0.27	0.27		ug/L
1,1,1-Trichloroethane	<0.46	0.46	0.46		ug/L
1,1-Dichloropropene	<0.59	0.59	0.59		ug/L
Carbon tetrachloride	<0.6	0.6	0.6		ug/L
Benzene	<0.66	0.66	0.66		ug/L
1,2-Dichloroethane	<1.15	1.15	1.15		ug/L
Trichloroethene	<0.6	0.6	0.60		ug/L
1,2-Dichloropropane	<0.98	0.98	0.98		ug/L
Dibromomethane	<1.78	1.78	1.78		ug/L
Bromodichloromethane	<0.65	0.65	0.65		ug/L
cis-1,3-Dichloropropene	<0.86	0.86	0.86		ug/L
Methyl isobutyl ketone	<8.1	8.1	8.10		ug/L

Arkansas Department of Environmental Quality
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Toluene	<0.57	0.57	0.57	ug/L
trans-1,3-Dichloropropene	<0.84	0.84	0.84	ug/L
1,1,2-Trichloroethane	<0.78	0.78	0.78	ug/L
2-Hexanone	<9.5	9.5	9.5	ug/L
Tetrachloroethene	<0.96	0.96	0.96	ug/L
1,3-Dichloropropane	<0.94	0.94	0.94	ug/L
Dibromochloromethane	<1.25	1.25	1.25	ug/L
1,2-Dibromoethane (EDB)	<0.68	0.68	0.68	ug/L
Chlorobenzene	<0.62	0.62	0.62	ug/L
Ethylbenzene	<0.51	0.51	0.51	ug/L
1,1,1,2-Tetrachloroethane	<0.57	0.57	0.57	ug/L
m,p-Xylene	<1.2	1.2	1.2	ug/L
o-Xylene	<0.5	0.5	0.5	ug/L
Styrene	<0.53	0.53	0.53	ug/L
Bromoform	<1.56	1.56	1.56	ug/L
Isopropylbenzene	<0.59	0.59	0.59	ug/L
1,1,2,2-Tetrachloroethane	<0.39	0.39	0.39	ug/L
1,2,3-Trichloropropane	<1.83	1.83	1.83	ug/L
n-Propylbenzene	<0.49	0.49	0.49	ug/L
Bromobenzene	<0.5	0.5	0.5	ug/L
1,3,5-Trimethylbenzene	<0.3	0.3	0.30	ug/L
2-Chlorotoluene	<0.66	0.66	0.66	ug/L
4-Chlorotoluene	<0.8	0.8	0.80	ug/L
tert-Butylbenzene	<0.85	0.85	0.85	ug/L
1,2,4-Trimethylbenzene	<0.46	0.46	0.46	ug/L
sec-Butylbenzene	<0.63	0.63	0.63	ug/L
p-Isopropyltoluene	<0.59	0.59	0.59	ug/L
1,3-Dichlorobenzene	<0.7	0.7	0.70	ug/L
1,4-Dichlorobenzene	<0.53	0.53	0.53	ug/L
n-Butylbenzene	<0.72	0.72	0.72	ug/L
1,2-Dichlorobenzene	<0.7	0.7	0.70	ug/L
1,2-Dibromo-3-chloropropane	<0.86	0.86	0.86	ug/L
1,2,4-Trichlorobenzene	<1.14	1.14	1.14	ug/L
Naphthalene	<1.53	1.53	1.53	ug/L
1,2,3-Trichlorobenzene	<1.3	1.3	1.3	ug/L
Dilution Factor	1			
Analyzed By	Jeff Ruehr			
Analysis Date/Time	5/30/2013 7:02 PM			

Client: Special Samples

Client Sample ID: WS-019

Lab ID: 2013-1936

Collection Date: 5/29/2013

Matrix: Water

Analyses

Volatile Organics by GCMS

EPA 8260C

Batch: 13060316 Run: 1

	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
<i>Dibromofluoromethane (% Recovery)</i>	94.6	70-130			%
<i>1,2-Dichloroethane-d4 (% Recovery)</i>	85.8	70-130			%
<i>Toluene-d8 (% Recovery)</i>	88.2	70-130			%
<i>4-Bromofluorobenzene (% Recovery)</i>	93.2	70-130			%
Dichlorodifluoromethane	<1.12	1.12	1.12		ug/L
Chloromethane	<0.58	0.58	0.58		ug/L
Vinyl chloride	<0.82	0.82	0.82		ug/L
Bromomethane	<3.9	3.9	3.90		ug/L
Chloroethane	<2.68	2.68	2.68		ug/L
Trichlorofluoromethane	<0.51	0.51	0.51		ug/L
1,1-Dichloroethene	<0.43	0.43	0.43		ug/L
Acetone	<10.5	10.5	10.5		ug/L
Methylene chloride	<2.5	2.5	2.5		ug/L
Methyl tert-butyl ether	<0.83	0.83	0.83		ug/L
trans-1,2-Dichloroethene	<0.59	0.59	0.59		ug/L
1,1-Dichloroethane	<0.42	0.42	0.42		ug/L
Methyl ethyl ketone	<12.8	12.8	12.8		ug/L
cis-1,2-Dichloroethene	<1.15	1.15	1.15		ug/L
2,2-Dichloropropane	<0.81	0.81	0.81		ug/L
Bromochloromethane	<0.66	0.66	0.66		ug/L
Chloroform	<0.27	0.27	0.27		ug/L
1,1,1-Trichloroethane	<0.46	0.46	0.46		ug/L
1,1-Dichloropropene	<0.59	0.59	0.59		ug/L
Carbon tetrachloride	<0.6	0.6	0.6		ug/L
Benzene	<0.66	0.66	0.66		ug/L
1,2-Dichloroethane	<1.15	1.15	1.15		ug/L
Trichloroethene	<0.6	0.6	0.60		ug/L
1,2-Dichloropropane	<0.98	0.98	0.98		ug/L
Dibromomethane	<1.78	1.78	1.78		ug/L
Bromodichloromethane	<0.65	0.65	0.65		ug/L
cis-1,3-Dichloropropene	<0.86	0.86	0.86		ug/L
Methyl isobutyl ketone	<8.1	8.1	8.10		ug/L

Toluene	<0.57	0.57	0.57	ug/L
trans-1,3-Dichloropropene	<0.84	0.84	0.84	ug/L
1,1,2-Trichloroethane	<0.78	0.78	0.78	ug/L
2-Hexanone	<9.5	9.5	9.5	ug/L
Tetrachloroethene	<0.96	0.96	0.96	ug/L
1,3-Dichloropropane	<0.94	0.94	0.94	ug/L
Dibromochloromethane	<1.25	1.25	1.25	ug/L
1,2-Dibromoethane (EDB)	<0.68	0.68	0.68	ug/L
Chlorobenzene	<0.62	0.62	0.62	ug/L
Ethylbenzene	<0.51	0.51	0.51	ug/L
1,1,1,2-Tetrachloroethane	<0.57	0.57	0.57	ug/L
m,p-Xylene	<1.2	1.2	1.2	ug/L
o-Xylene	<0.5	0.5	0.5	ug/L
Styrene	<0.53	0.53	0.53	ug/L
Bromoform	<1.56	1.56	1.56	ug/L
Isopropylbenzene	<0.59	0.59	0.59	ug/L
1,1,2,2-Tetrachloroethane	<0.39	0.39	0.39	ug/L
1,2,3-Trichloropropane	<1.83	1.83	1.83	ug/L
n-Propylbenzene	<0.49	0.49	0.49	ug/L
Bromobenzene	<0.5	0.5	0.5	ug/L
1,3,5-Trimethylbenzene	<0.3	0.3	0.30	ug/L
2-Chlorotoluene	<0.66	0.66	0.66	ug/L
4-Chlorotoluene	<0.8	0.8	0.80	ug/L
tert-Butylbenzene	<0.85	0.85	0.85	ug/L
1,2,4-Trimethylbenzene	<0.46	0.46	0.46	ug/L
sec-Butylbenzene	<0.63	0.63	0.63	ug/L
p-Isopropyltoluene	<0.59	0.59	0.59	ug/L
1,3-Dichlorobenzene	<0.7	0.7	0.70	ug/L
1,4-Dichlorobenzene	<0.53	0.53	0.53	ug/L
n-Butylbenzene	<0.72	0.72	0.72	ug/L
1,2-Dichlorobenzene	<0.7	0.7	0.70	ug/L
1,2-Dibromo-3-chloropropane	<0.86	0.86	0.86	ug/L
1,2,4-Trichlorobenzene	<1.14	1.14	1.14	ug/L
Naphthalene	<1.53	1.53	1.53	ug/L
1,2,3-Trichlorobenzene	<1.3	1.3	1.3	ug/L
Dilution Factor	1			
Analyzed By	Jeff Ruehr			
Analysis Date/Time	5/30/2013 7:27 PM			

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Laboratory Contact: Jeff Ruehr
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501-682-0955

Client: Special Samples

Client Sample ID: Volatiles Trip Blank

Lab ID: 2013-1938

Collection Date: 5/29/2013

Matrix: Water

Analyses

Volatile Organics by GCMS

EPA 8260C

Batch: 13060316 Run: 1

	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
<i>Dibromofluoromethane (% Recovery)</i>	100	70-130			%
<i>1,2-Dichloroethane-d4 (% Recovery)</i>	90.4	70-130			%
<i>Toluene-d8 (% Recovery)</i>	94.7	70-130			%
<i>4-Bromofluorobenzene (% Recovery)</i>	101	70-130			%
Dichlorodifluoromethane	<1.12	1.12	1.12		ug/L
Chloromethane	<0.58	0.58	0.58		ug/L
Vinyl chloride	<0.82	0.82	0.82		ug/L
Bromomethane	<3.9	3.9	3.90		ug/L
Chloroethane	<2.68	2.68	2.68		ug/L
Trichlorofluoromethane	<0.51	0.51	0.51		ug/L
1,1-Dichloroethene	<0.43	0.43	0.43		ug/L
Acetone	<10.5	10.5	10.5		ug/L
Methylene chloride	<2.5	2.5	2.5		ug/L
Methyl tert-butyl ether	<0.83	0.83	0.83		ug/L
trans-1,2-Dichloroethene	<0.59	0.59	0.59		ug/L
1,1-Dichloroethane	<0.42	0.42	0.42		ug/L
Methyl ethyl ketone	<12.8	12.8	12.8		ug/L
cis-1,2-Dichloroethene	<1.15	1.15	1.15		ug/L
2,2-Dichloropropane	<0.81	0.81	0.81		ug/L
Bromochloromethane	<0.66	0.66	0.66		ug/L
Chloroform	<0.27	0.27	0.27		ug/L
1,1,1-Trichloroethane	<0.46	0.46	0.46		ug/L
1,1-Dichloropropene	<0.59	0.59	0.59		ug/L
Carbon tetrachloride	<0.6	0.6	0.6		ug/L
Benzene	<0.66	0.66	0.66		ug/L
1,2-Dichloroethane	<1.15	1.15	1.15		ug/L
Trichloroethene	<0.6	0.6	0.60		ug/L
1,2-Dichloropropane	<0.98	0.98	0.98		ug/L
Dibromomethane	<1.78	1.78	1.78		ug/L
Bromodichloromethane	<0.65	0.65	0.65		ug/L
cis-1,3-Dichloropropene	<0.86	0.86	0.86		ug/L
Methyl isobutyl ketone	<8.1	8.1	8.10		ug/L

Toluene	<0.57	0.57	0.57	ug/L
trans-1,3-Dichloropropene	<0.84	0.84	0.84	ug/L
1,1,2-Trichloroethane	<0.78	0.78	0.78	ug/L
2-Hexanone	<9.5	9.5	9.5	ug/L
Tetrachloroethene	<0.96	0.96	0.96	ug/L
1,3-Dichloropropane	<0.94	0.94	0.94	ug/L
Dibromochloromethane	<1.25	1.25	1.25	ug/L
1,2-Dibromoethane (EDB)	<0.68	0.68	0.68	ug/L
Chlorobenzene	<0.62	0.62	0.62	ug/L
Ethylbenzene	<0.51	0.51	0.51	ug/L
1,1,1,2-Tetrachloroethane	<0.57	0.57	0.57	ug/L
m,p-Xylene	<1.2	1.2	1.2	ug/L
o-Xylene	<0.5	0.5	0.5	ug/L
Styrene	<0.53	0.53	0.53	ug/L
Bromoform	<1.56	1.56	1.56	ug/L
Isopropylbenzene	<0.59	0.59	0.59	ug/L
1,1,1,2,2-Tetrachloroethane	<0.39	0.39	0.39	ug/L
1,2,3-Trichloropropane	<1.83	1.83	1.83	ug/L
n-Propylbenzene	<0.49	0.49	0.49	ug/L
Bromobenzene	<0.5	0.5	0.5	ug/L
1,3,5-Trimethylbenzene	<0.3	0.3	0.30	ug/L
2-Chlorotoluene	<0.66	0.66	0.66	ug/L
4-Chlorotoluene	<0.8	0.8	0.80	ug/L
tert-Butylbenzene	<0.85	0.85	0.85	ug/L
1,2,4-Trimethylbenzene	<0.46	0.46	0.46	ug/L
sec-Butylbenzene	<0.63	0.63	0.63	ug/L
p-Isopropyltoluene	<0.59	0.59	0.59	ug/L
1,3-Dichlorobenzene	<0.7	0.7	0.70	ug/L
1,4-Dichlorobenzene	<0.53	0.53	0.53	ug/L
n-Butylbenzene	<0.72	0.72	0.72	ug/L
1,2-Dichlorobenzene	<0.7	0.7	0.70	ug/L
1,2-Dibromo-3-chloropropane	<0.86	0.86	0.86	ug/L
1,2,4-Trichlorobenzene	<1.14	1.14	1.14	ug/L
Naphthalene	<1.53	1.53	1.53	ug/L
1,2,3-Trichlorobenzene	<1.3	1.3	1.3	ug/L
Dilution Factor	1			
Analyzed By	Jeff Ruehr			
Analysis Date/Time	5/30/2013 4:06 PM			

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Laboratory Contact: Jeff Ruehr
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501-682-0955

Client: Special Samples

Client Sample ID: WS-BKG-002

Lab ID: 2013-1928

Collection Date: 5/29/2013

Matrix: Water

Analyses

Oil and Grease

EPA1664

Batch: 13060303 Run: 1

	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
Oil and Grease	<2.5	2.5	2.5		mg/L
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	05/13/2013 0800				

Semi-Volatiles by GC/MS

EPA 3510C/EPA 8270D

Batch: 13060401 Run: 1

	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
2-Fluorophenol (% Recovery)	26.8	40-110			%
Nitrobenzene-d5 (% Recovery)	67.1	50-110			%
2-Fluorobiphenyl (% Recovery)	67.0	50-110			%
2,4,6-Tribromophenol (% Recovery)	72.3	40-110			%
Terphenyl-d14 (% Recovery)	60.0	50-110			%
Methyl Methanesulfonate	<0.2	0.2	100		ug/L
Ethyl methanesulfonate	<0.2	0.2	100		ug/L
Phenol	<0.2	0.2	100		ug/L
Aniline	<0.2	0.2	100		ug/L
Bis(2-chloroethyl)ether	<0.2	0.2	100		ug/L
2-Chlorophenol	<0.2	0.2	100		ug/L
1,3-Dichlorobenzene	<0.12	0.12	60		ug/L
1,4-Dichlorobenzene	<0.12	0.12	60		ug/L
Benzyl alcohol	0.235	0.16	80		ug/L
1,2-Dichlorobenzene	<0.12	0.12	60		ug/L
2-Methylphenol	<0.1	0.1	50		ug/L
Acetophenone	<0.1	0.1	50		ug/L
4-Methylphenol	<0.1	0.1	50		ug/L
N-Nitrosodi-n-propylamine	<0.2	0.2	100		ug/L
Hexachloroethane	<0.2	0.2	100		ug/L
Nitrobenzene	<0.2	0.2	100		ug/L
N-Nitrosopiperidine	<0.2	0.2	100		ug/L
Isophorone	<0.1	0.1	50		ug/L

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2-Nitrophenol	<0.3	0.3	150	ug/L
2,4-Dimethylphenol	<0.1	0.1	50	ug/L
Bis(2-chloroethoxy)methane	<0.2	0.2	100	ug/L
2,4-Dichlorophenol	<0.2	0.2	100	ug/L
1,2,4-Trichlorobenzene	<0.12	0.12	60	ug/L
Naphthalene	<0.08	0.08	40	ug/L
4-Chloroaniline	<0.1	0.1	50	ug/L
2,6-Dichlorophenol	<0.2	0.2	100	ug/L
Hexachlorobutadiene	<0.2	0.2	100	ug/L
N-Nitrosodibutylamine	<0.2	0.2	100	ug/L
4-Chloro-3-methylphenol	<0.16	0.16	80	ug/L
2-Methylnaphthalene	<0.1	0.1	50	ug/L
1,2,4,5-Tetrachlorobenzene	<0.1	0.1	50	ug/L
Hexachlorocyclopentadiene	<0.16	0.16	80	ug/L
2,4,6-Trichlorophenol	<0.2	0.2	100	ug/L
2,4,5-Trichlorophenol	<0.2	0.2	100	ug/L
2-Chloronaphthalene	<0.1	0.1	50	ug/L
1-Chloronaphthalene	<0.1	0.1	50	ug/L
2-Nitroaniline	<0.2	0.2	100	ug/L
Dimethyl phthalate	<0.2	0.2	100	ug/L
2,6-Dinitrotoluene	<0.2	0.2	100	ug/L
Acenaphthylene	<0.08	0.08	40	ug/L
3-Nitroaniline	<0.2	0.2	100	ug/L
Acenaphthene	<0.1	0.1	50	ug/L
2,4-Dinitrophenol	<4	4	2000	ug/L
Pentachlorobenzene	<0.12	0.12	60	ug/L
4-Nitrophenol	<2	2	1000	ug/L
Dibenzofuran	<0.1	0.1	50	ug/L
2,4-Dinitrotoluene	<0.2	0.2	100	ug/L
2,3,4,6-Tetrachlorophenol	<0.6	0.6	300	ug/L
Diethyl phthalate	<0.2	0.2	100	ug/L
Fluorene	<0.1	0.1	50	ug/L
4-Chlorophenyl phenyl ether	<0.1	0.1	50	ug/L
4-Nitroaniline	<0.2	0.2	100	ug/L
4,6-Dinitro-2-methylphenol	<6	6	3000	ug/L
Diphenylamine	<0.1	0.1	50	ug/L
Azobenzene	<0.08	0.08	40	ug/L
4-Bromophenyl phenyl ether	<0.2	0.2	100	ug/L
Hexachlorobenzene	<0.16	0.16	80	ug/L
Pentachlorophenol	<1	1	500	ug/L

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Pentachloronitrobenzene	<0.2	0.2	100	ug/L
Pronamide	<0.2	0.2	100	ug/L
Phenanthrene	<0.08	0.08	40	ug/L
Anthracene	<0.08	0.08	40	ug/L
Carbazole	<0.1	0.1	50	ug/L
Di-n-butyl phthalate	<0.2	0.2	100	ug/L
Fluoranthene	<0.08	0.08	40	ug/L
Pyrene	<0.08	0.08	40	ug/L
Dimethylaminoazobenzene	<0.2	0.2	100	ug/L
Butyl benzyl phthalate	<0.3	0.3	150	ug/L
Benzo (a) anthracene	<0.1	0.1	50	ug/L
Chrysene	<0.1	0.1	50	ug/L
Bis(2-ethylhexyl)phthalate	<0.3	0.3	150	ug/L
Di-n-octyl phthalate	<0.3	0.3	150	ug/L
Benzo (b) fluoranthene	<0.16	0.16	80	ug/L
7,12-Dimethylbenz (a) anthracene	<0.2	0.2	100	ug/L
Benzo (k) fluoranthene	<0.16	0.16	80	ug/L
Benzo (a) pyrene	<0.16	0.16	80	ug/L
3-Methylcholanthrene	<0.2	0.2	100	ug/L
Indeno (1,2,3-cd) pyrene	<0.2	0.2	100	ug/L
Dibenzo (a,h) anthracene	<0.16	0.16	80	ug/L
Benzo (g,h,i) perylene	<0.16	0.16	80	ug/L
Initial Volume	500			mL
Final Volume	1			mL
Dilution Factor	1			
Analyzed By	Ed Harris			
Analysis Date/Time	6/3/2013 5:15 PM			
Prep By	Ed Harris			
Prep Date/Time	5/30/2013 13:00			

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Laboratory Contact: Jeff Ruehr
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501-682-0955

Client: Special Samples

Client Sample ID: WS-001

Lab ID: 2013-1929

Collection Date: 5/29/2013

Matrix: Water

Analyses

Oil and Grease

EPA1664

Batch: 13060303 Run: 1

	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
Oil and Grease	<2.5	2.5	2.5		mg/L
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	05/13/2013 0800				

Semi-Volatiles by GC/MS

EPA 3510C/EPA 8270D

Batch: 13060401 Run: 1

	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
2-Fluorophenol (% Recovery)	15.2	40-110			%
Nitrobenzene-d5 (% Recovery)	59.7	50-110			%
2-Fluorobiphenyl (% Recovery)	58.3	50-110			%
2,4,6-Tribromophenol (% Recovery)	27.1	40-110			%
Terphenyl-d14 (% Recovery)	55.7	50-110			%
Methyl Methanesulfonate	<0.2	0.2	100		ug/L
Ethyl methanesulfonate	<0.2	0.2	100		ug/L
Phenol	<0.2	0.2	100		ug/L
Aniline	<0.2	0.2	100		ug/L
Bis(2-chloroethyl)ether	<0.2	0.2	100		ug/L
2-Chlorophenol	<0.2	0.2	100		ug/L
1,3-Dichlorobenzene	<0.12	0.12	60		ug/L
1,4-Dichlorobenzene	<0.12	0.12	60		ug/L
Benzyl alcohol	0.198	0.16	80		ug/L
1,2-Dichlorobenzene	<0.12	0.12	60		ug/L
2-Methylphenol	<0.1	0.1	50		ug/L
Acetophenone	<0.1	0.1	50		ug/L
4-Methylphenol	<0.1	0.1	50		ug/L
N-Nitrosodi-n-propylamine	<0.2	0.2	100		ug/L
Hexachloroethane	<0.2	0.2	100		ug/L
Nitrobenzene	<0.2	0.2	100		ug/L
N-Nitrosopiperidine	<0.2	0.2	100		ug/L
Isophorone	<0.1	0.1	50		ug/L

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2-Nitrophenol	<0.3	0.3	150	ug/L
2,4-Dimethylphenol	<0.1	0.1	50	ug/L
Bis(2-chloroethoxy)methane	<0.2	0.2	100	ug/L
2,4-Dichlorophenol	<0.2	0.2	100	ug/L
1,2,4-Trichlorobenzene	<0.12	0.12	60	ug/L
Naphthalene	<0.08	0.08	40	ug/L
4-Chloroaniline	<0.1	0.1	50	ug/L
2,6-Dichlorophenol	<0.2	0.2	100	ug/L
Hexachlorobutadiene	<0.2	0.2	100	ug/L
N-Nitrosodibutylamine	<0.2	0.2	100	ug/L
4-Chloro-3-methylphenol	<0.16	0.16	80	ug/L
2-Methylnaphthalene	<0.1	0.1	50	ug/L
1,2,4,5-Tetrachlorobenzene	<0.1	0.1	50	ug/L
Hexachlorocyclopentadiene	<0.16	0.16	80	ug/L
2,4,6-Trichlorophenol	<0.2	0.2	100	ug/L
2,4,5-Trichlorophenol	<0.2	0.2	100	ug/L
2-Chloronaphthalene	<0.1	0.1	50	ug/L
1-Chloronaphthalene	<0.1	0.1	50	ug/L
2-Nitroaniline	<0.2	0.2	100	ug/L
Dimethyl phthalate	<0.2	0.2	100	ug/L
2,6-Dinitrotoluene	<0.2	0.2	100	ug/L
Acenaphthylene	<0.08	0.08	40	ug/L
3-Nitroaniline	<0.2	0.2	100	ug/L
Acenaphthene	<0.1	0.1	50	ug/L
2,4-Dinitrophenol	<4	4	2000	ug/L
Pentachlorobenzene	<0.12	0.12	60	ug/L
4-Nitrophenol	<2	2	1000	ug/L
Dibenzofuran	<0.1	0.1	50	ug/L
2,4-Dinitrotoluene	<0.2	0.2	100	ug/L
2,3,4,6-Tetrachlorophenol	<0.6	0.6	300	ug/L
Diethyl phthalate	<0.2	0.2	100	ug/L
Fluorene	<0.1	0.1	50	ug/L
4-Chlorophenyl phenyl ether	<0.1	0.1	50	ug/L
4-Nitroaniline	<0.2	0.2	100	ug/L
4,6-Dinitro-2-methylphenol	<6	6	3000	ug/L
Diphenylamine	<0.1	0.1	50	ug/L
Azobenzene	<0.08	0.08	40	ug/L
4-Bromophenyl phenyl ether	<0.2	0.2	100	ug/L
Hexachlorobenzene	<0.16	0.16	80	ug/L
Pentachlorophenol	<1	1	500	ug/L

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Pentachloronitrobenzene	<0.2	0.2	100	ug/L
Pronamide	<0.2	0.2	100	ug/L
Phenanthrene	<0.08	0.08	40	ug/L
Anthracene	<0.08	0.08	40	ug/L
Carbazole	<0.1	0.1	50	ug/L
Di-n-butyl phthalate	<0.2	0.2	100	ug/L
Fluoranthene	<0.08	0.08	40	ug/L
Pyrene	<0.08	0.08	40	ug/L
Dimethylaminoazobenzene	<0.2	0.2	100	ug/L
Butyl benzyl phthalate	<0.3	0.3	150	ug/L
Benzo (a) anthracene	<0.1	0.1	50	ug/L
Chrysene	<0.1	0.1	50	ug/L
Bis(2-ethylhexyl)phthalate	<0.3	0.3	150	ug/L
Di-n-octyl phthalate	<0.3	0.3	150	ug/L
Benzo (b) fluoranthene	<0.16	0.16	80	ug/L
7,12-Dimethylbenz (a) anthracene	<0.2	0.2	100	ug/L
Benzo (k) fluoranthene	<0.16	0.16	80	ug/L
Benzo (a) pyrene	<0.16	0.16	80	ug/L
3-Methylcholanthrene	<0.2	0.2	100	ug/L
Indeno (1,2,3-cd) pyrene	<0.2	0.2	100	ug/L
Dibenzo (a,h) anthracene	<0.16	0.16	80	ug/L
Benzo (g,h,i) perylene	<0.16	0.16	80	ug/L
Initial Volume	500			mL
Final Volume	1			mL
Dilution Factor	1			
Analyzed By	Ed Harris			
Analysis Date/Time	6/3/2013 5:44 PM			
Prep By	Ed Harris			
Prep Date/Time	5/30/2013 13:00			

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Client: Special Samples

Client Sample ID: WS-002

Lab ID: 2013-1930

Collection Date: 5/29/2013

Matrix: Water

Analyses

Oil and Grease

EPA1664

Batch: 13060303 Run: 1

	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
Oil and Grease	<2.5	2.5	2.5		mg/L
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	05/13/2013 0800				

Semi-Volatiles by GC/MS

EPA 3510C/EPA 8270D

Batch: 13060401 Run: 1

	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
2-Fluorophenol (% Recovery)	30.9	40-110			%
Nitrobenzene-d5 (% Recovery)	60.8	50-110			%
2-Fluorobiphenyl (% Recovery)	61.8	50-110			%
2,4,6-Tribromophenol (% Recovery)	68.8	40-110			%
Terphenyl-d14 (% Recovery)	66.0	50-110			%
Methyl Methanesulfonate	<0.2	0.2	100		ug/L
Ethyl methanesulfonate	<0.2	0.2	100		ug/L
Phenol	<0.2	0.2	100		ug/L
Aniline	<0.2	0.2	100		ug/L
Bis(2-chloroethyl)ether	<0.2	0.2	100		ug/L
2-Chlorophenol	<0.2	0.2	100		ug/L
1,3-Dichlorobenzene	<0.12	0.12	60		ug/L
1,4-Dichlorobenzene	<0.12	0.12	60		ug/L
Benzyl alcohol	0.233	0.16	80		ug/L
1,2-Dichlorobenzene	<0.12	0.12	60		ug/L
2-Methylphenol	<0.1	0.1	50		ug/L
Acetophenone	<0.1	0.1	50		ug/L
4-Methylphenol	<0.1	0.1	50		ug/L
N-Nitrosodi-n-propylamine	<0.2	0.2	100		ug/L
Hexachloroethane	<0.2	0.2	100		ug/L
Nitrobenzene	<0.2	0.2	100		ug/L
N-Nitrosopiperidine	<0.2	0.2	100		ug/L
Isophorone	<0.1	0.1	50		ug/L

2-Nitrophenol	<0.3	0.3	150	ug/L
2,4-Dimethylphenol	<0.1	0.1	50	ug/L
Bis(2-chloroethoxy)methane	<0.2	0.2	100	ug/L
2,4-Dichlorophenol	<0.2	0.2	100	ug/L
1,2,4-Trichlorobenzene	<0.12	0.12	60	ug/L
Naphthalene	<0.08	0.08	40	ug/L
4-Chloroaniline	<0.1	0.1	50	ug/L
2,6-Dichlorophenol	<0.2	0.2	100	ug/L
Hexachlorobutadiene	<0.2	0.2	100	ug/L
N-Nitrosodibutylamine	<0.2	0.2	100	ug/L
4-Chloro-3-methylphenol	<0.16	0.16	80	ug/L
2-Methylnaphthalene	<0.1	0.1	50	ug/L
1,2,4,5-Tetrachlorobenzene	<0.1	0.1	50	ug/L
Hexachlorocyclopentadiene	<0.16	0.16	80	ug/L
2,4,6-Trichlorophenol	<0.2	0.2	100	ug/L
2,4,5-Trichlorophenol	<0.2	0.2	100	ug/L
2-Chloronaphthalene	<0.1	0.1	50	ug/L
1-Chloronaphthalene	<0.1	0.1	50	ug/L
2-Nitroaniline	<0.2	0.2	100	ug/L
Dimethyl phthalate	<0.2	0.2	100	ug/L
2,6-Dinitrotoluene	<0.2	0.2	100	ug/L
Acenaphthylene	<0.08	0.08	40	ug/L
3-Nitroaniline	<0.2	0.2	100	ug/L
Acenaphthene	<0.1	0.1	50	ug/L
2,4-Dinitrophenol	<4	4	2000	ug/L
Pentachlorobenzene	<0.12	0.12	60	ug/L
4-Nitrophenol	<2	2	1000	ug/L
Dibenzofuran	<0.1	0.1	50	ug/L
2,4-Dinitrotoluene	<0.2	0.2	100	ug/L
2,3,4,6-Tetrachlorophenol	<0.6	0.6	300	ug/L
Diethyl phthalate	<0.2	0.2	100	ug/L
Fluorene	<0.1	0.1	50	ug/L
4-Chlorophenyl phenyl ether	<0.1	0.1	50	ug/L
4-Nitroaniline	<0.2	0.2	100	ug/L
4,6-Dinitro-2-methylphenol	<6	6	3000	ug/L
Diphenylamine	<0.1	0.1	50	ug/L
Azobenzene	<0.08	0.08	40	ug/L
4-Bromophenyl phenyl ether	<0.2	0.2	100	ug/L
Hexachlorobenzene	<0.16	0.16	80	ug/L
Pentachlorophenol	<1	1	500	ug/L

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Pentachloronitrobenzene	<0.2	0.2	100	ug/L
Pronamide	<0.2	0.2	100	ug/L
Phenanthrene	<0.08	0.08	40	ug/L
Anthracene	<0.08	0.08	40	ug/L
Carbazole	<0.1	0.1	50	ug/L
Di-n-butyl phthalate	<0.2	0.2	100	ug/L
Fluoranthene	<0.08	0.08	40	ug/L
Pyrene	<0.08	0.08	40	ug/L
Dimethylaminoazobenzene	<0.2	0.2	100	ug/L
Butyl benzyl phthalate	<0.3	0.3	150	ug/L
Benzo (a) anthracene	<0.1	0.1	50	ug/L
Chrysene	<0.1	0.1	50	ug/L
Bis(2-ethylhexyl)phthalate	<0.3	0.3	150	ug/L
Di-n-octyl phthalate	<0.3	0.3	150	ug/L
Benzo (b) fluoranthene	<0.16	0.16	80	ug/L
7,12-Dimethylbenz (a) anthracene	<0.2	0.2	100	ug/L
Benzo (k) fluoranthene	<0.16	0.16	80	ug/L
Benzo (a) pyrene	<0.16	0.16	80	ug/L
3-Methylcholanthrene	<0.2	0.2	100	ug/L
Indeno (1,2,3-cd) pyrene	<0.2	0.2	100	ug/L
Dibenzo (a,h) anthracene	<0.16	0.16	80	ug/L
Benzo (g,h,i) perylene	<0.16	0.16	80	ug/L
Initial Volume	500			mL
Final Volume	1			mL
Dilution Factor	1			
Analyzed By	Ed Harris			
Analysis Date/Time	6/3/2013 6:13 PM			
Prep By	Ed Harris			
Prep Date/Time	5/30/2013 13:00			

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Client: Special Samples

Client Sample ID: WS-003

Lab ID: 2013-1931

Collection Date: 5/29/2013

Matrix: Water

Analyses

Oil and Grease

EPA1664

Batch: 13060303 Run: 1

	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
Oil and Grease	<2.5	2.5	2.5		mg/L
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	05/13/2013 0800				

Semi-Volatiles by GC/MS

EPA 3510C/EPA 8270D

Batch: 13060401 Run: 1

	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
2-Fluorophenol (% Recovery)	29.9	40-110			%
Nitrobenzene-d5 (% Recovery)	62.4	50-110			%
2-Fluorobiphenyl (% Recovery)	59.0	50-110			%
2,4,6-Tribromophenol (% Recovery)	63.5	40-110			%
Terphenyl-d14 (% Recovery)	66.4	50-110			%
Methyl Methanesulfonate	<0.2	0.2	100		ug/L
Ethyl methanesulfonate	<0.2	0.2	100		ug/L
Phenol	<0.2	0.2	100		ug/L
Aniline	<0.2	0.2	100		ug/L
Bis(2-chloroethyl)ether	<0.2	0.2	100		ug/L
2-Chlorophenol	<0.2	0.2	100		ug/L
1,3-Dichlorobenzene	<0.12	0.12	60		ug/L
1,4-Dichlorobenzene	<0.12	0.12	60		ug/L
Benzyl alcohol	0.256	0.16	80		ug/L
1,2-Dichlorobenzene	<0.12	0.12	60		ug/L
2-Methylphenol	<0.1	0.1	50		ug/L
Acetophenone	<0.1	0.1	50		ug/L
4-Methylphenol	<0.1	0.1	50		ug/L
N-Nitrosodi-n-propylamine	<0.2	0.2	100		ug/L
Hexachloroethane	<0.2	0.2	100		ug/L
Nitrobenzene	<0.2	0.2	100		ug/L
N-Nitrosopiperidine	<0.2	0.2	100		ug/L
Isophorone	<0.1	0.1	50		ug/L

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2-Nitrophenol	<0.3	0.3	150	ug/L
2,4-Dimethylphenol	<0.1	0.1	50	ug/L
Bis(2-chloroethoxy)methane	<0.2	0.2	100	ug/L
2,4-Dichlorophenol	<0.2	0.2	100	ug/L
1,2,4-Trichlorobenzene	<0.12	0.12	60	ug/L
Naphthalene	<0.08	0.08	40	ug/L
4-Chloroaniline	<0.1	0.1	50	ug/L
2,6-Dichlorophenol	<0.2	0.2	100	ug/L
Hexachlorobutadiene	<0.2	0.2	100	ug/L
N-Nitrosodibutylamine	<0.2	0.2	100	ug/L
4-Chloro-3-methylphenol	<0.16	0.16	80	ug/L
2-Methylnaphthalene	<0.1	0.1	50	ug/L
1,2,4,5-Tetrachlorobenzene	<0.1	0.1	50	ug/L
Hexachlorocyclopentadiene	<0.16	0.16	80	ug/L
2,4,6-Trichlorophenol	<0.2	0.2	100	ug/L
2,4,5-Trichlorophenol	<0.2	0.2	100	ug/L
2-Chloronaphthalene	<0.1	0.1	50	ug/L
1-Chloronaphthalene	<0.1	0.1	50	ug/L
2-Nitroaniline	<0.2	0.2	100	ug/L
Dimethyl phthalate	<0.2	0.2	100	ug/L
2,6-Dinitrotoluene	<0.2	0.2	100	ug/L
Acenaphthylene	<0.08	0.08	40	ug/L
3-Nitroaniline	<0.2	0.2	100	ug/L
Acenaphthene	<0.1	0.1	50	ug/L
2,4-Dinitrophenol	<4	4	2000	ug/L
Pentachlorobenzene	<0.12	0.12	60	ug/L
4-Nitrophenol	<2	2	1000	ug/L
Dibenzofuran	<0.1	0.1	50	ug/L
2,4-Dinitrotoluene	<0.2	0.2	100	ug/L
2,3,4,6-Tetrachlorophenol	<0.6	0.6	300	ug/L
Diethyl phthalate	<0.2	0.2	100	ug/L
Fluorene	<0.1	0.1	50	ug/L
4-Chlorophenyl phenyl ether	<0.1	0.1	50	ug/L
4-Nitroaniline	<0.2	0.2	100	ug/L
4,6-Dinitro-2-methylphenol	<6	6	3000	ug/L
Diphenylamine	<0.1	0.1	50	ug/L
Azobenzene	<0.08	0.08	40	ug/L
4-Bromophenyl phenyl ether	<0.2	0.2	100	ug/L
Hexachlorobenzene	<0.16	0.16	80	ug/L
Pentachlorophenol	<1	1	500	ug/L

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Pentachloronitrobenzene	<0.2	0.2	100	ug/L
Pronamide	<0.2	0.2	100	ug/L
Phenanthrene	<0.08	0.08	40	ug/L
Anthracene	<0.08	0.08	40	ug/L
Carbazole	<0.1	0.1	50	ug/L
Di-n-butyl phthalate	<0.2	0.2	100	ug/L
Fluoranthene	<0.08	0.08	40	ug/L
Pyrene	<0.08	0.08	40	ug/L
Dimethylaminoazobenzene	<0.2	0.2	100	ug/L
Butyl benzyl phthalate	<0.3	0.3	150	ug/L
Benzo (a) anthracene	<0.1	0.1	50	ug/L
Chrysene	<0.1	0.1	50	ug/L
Bis(2-ethylhexyl)phthalate	<0.3	0.3	150	ug/L
Di-n-octyl phthalate	<0.3	0.3	150	ug/L
Benzo (b) fluoranthene	<0.16	0.16	80	ug/L
7,12-Dimethylbenz (a) anthracene	<0.2	0.2	100	ug/L
Benzo (k) fluoranthene	<0.16	0.16	80	ug/L
Benzo (a) pyrene	<0.16	0.16	80	ug/L
3-Methylcholanthrene	<0.2	0.2	100	ug/L
Indeno (1,2,3-cd) pyrene	<0.2	0.2	100	ug/L
Dibenzo (a,h) anthracene	<0.16	0.16	80	ug/L
Benzo (g,h,i) perylene	<0.16	0.16	80	ug/L
Initial Volume	500			mL
Final Volume	1			mL
Dilution Factor	1			
Analyzed By	Ed Harris			
Analysis Date/Time	6/3/2013 6:43 PM			
Prep By	Ed Harris			
Prep Date/Time	5/30/2013 13:00			

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Client: Special Samples

Client Sample ID: WS-004

Lab ID: 2013-1932

Collection Date: 5/29/2013

Matrix: Water

Analyses

Oil and Grease

EPA1664

Batch: 13060303 Run: 1

	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
Oil and Grease	<2.5	2.5	2.5		mg/L
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	05/13/2013 0800				

Semi-Volatiles by GC/MS

EPA 3510C/EPA 8270D

Batch: 13060401 Run: 1

	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
2-Fluorophenol (% Recovery)	18.1	40-110			%
Nitrobenzene-d5 (% Recovery)	66.2	50-110			%
2-Fluorobiphenyl (% Recovery)	55.4	50-110			%
2,4,6-Tribromophenol (% Recovery)	37.0	40-110			%
Terphenyl-d14 (% Recovery)	29.9	50-110			%
Methyl Methanesulfonate	<0.2	0.2	100		ug/L
Ethyl methanesulfonate	<0.2	0.2	100		ug/L
Phenol	<0.2	0.2	100		ug/L
Aniline	<0.2	0.2	100		ug/L
Bis(2-chloroethyl)ether	<0.2	0.2	100		ug/L
2-Chlorophenol	<0.2	0.2	100		ug/L
1,3-Dichlorobenzene	<0.12	0.12	60		ug/L
1,4-Dichlorobenzene	<0.12	0.12	60		ug/L
Benzyl alcohol	0.190	0.16	80		ug/L
1,2-Dichlorobenzene	<0.12	0.12	60		ug/L
2-Methylphenol	<0.1	0.1	50		ug/L
Acetophenone	<0.1	0.1	50		ug/L
4-Methylphenol	<0.1	0.1	50		ug/L
N-Nitrosodi-n-propylamine	<0.2	0.2	100		ug/L
Hexachloroethane	<0.2	0.2	100		ug/L
Nitrobenzene	<0.2	0.2	100		ug/L
N-Nitrosopiperidine	<0.2	0.2	100		ug/L
Isophorone	<0.1	0.1	50		ug/L

2-Nitrophenol	<0.3	0.3	150	ug/L
2,4-Dimethylphenol	<0.1	0.1	50	ug/L
Bis(2-chloroethoxy)methane	<0.2	0.2	100	ug/L
2,4-Dichlorophenol	<0.2	0.2	100	ug/L
1,2,4-Trichlorobenzene	<0.12	0.12	60	ug/L
Naphthalene	<0.08	0.08	40	ug/L
4-Chloroaniline	<0.1	0.1	50	ug/L
2,6-Dichlorophenol	<0.2	0.2	100	ug/L
Hexachlorobutadiene	<0.2	0.2	100	ug/L
N-Nitrosodibutylamine	<0.2	0.2	100	ug/L
4-Chloro-3-methylphenol	<0.16	0.16	80	ug/L
2-Methylnaphthalene	<0.1	0.1	50	ug/L
1,2,4,5-Tetrachlorobenzene	<0.1	0.1	50	ug/L
Hexachlorocyclopentadiene	<0.16	0.16	80	ug/L
2,4,6-Trichlorophenol	<0.2	0.2	100	ug/L
2,4,5-Trichlorophenol	<0.2	0.2	100	ug/L
2-Chloronaphthalene	<0.1	0.1	50	ug/L
1-Chloronaphthalene	<0.1	0.1	50	ug/L
2-Nitroaniline	<0.2	0.2	100	ug/L
Dimethyl phthalate	<0.2	0.2	100	ug/L
2,6-Dinitrotoluene	<0.2	0.2	100	ug/L
Acenaphthylene	<0.08	0.08	40	ug/L
3-Nitroaniline	<0.2	0.2	100	ug/L
Acenaphthene	<0.1	0.1	50	ug/L
2,4-Dinitrophenol	<4	4	2000	ug/L
Pentachlorobenzene	<0.12	0.12	60	ug/L
4-Nitrophenol	<2	2	1000	ug/L
Dibenzofuran	<0.1	0.1	50	ug/L
2,4-Dinitrotoluene	<0.2	0.2	100	ug/L
2,3,4,6-Tetrachlorophenol	<0.6	0.6	300	ug/L
Diethyl phthalate	<0.2	0.2	100	ug/L
Fluorene	<0.1	0.1	50	ug/L
4-Chlorophenyl phenyl ether	<0.1	0.1	50	ug/L
4-Nitroaniline	<0.2	0.2	100	ug/L
4,6-Dinitro-2-methylphenol	<6	6	3000	ug/L
Diphenylamine	<0.1	0.1	50	ug/L
Azobenzene	<0.08	0.08	40	ug/L
4-Bromophenyl phenyl ether	<0.2	0.2	100	ug/L
Hexachlorobenzene	<0.16	0.16	80	ug/L
Pentachlorophenol	<1	1	500	ug/L

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Pentachloronitrobenzene	<0.2	0.2	100	ug/L
Pronamide	<0.2	0.2	100	ug/L
Phenanthrene	<0.08	0.08	40	ug/L
Anthracene	<0.08	0.08	40	ug/L
Carbazole	<0.1	0.1	50	ug/L
Di-n-butyl phthalate	<0.2	0.2	100	ug/L
Fluoranthene	<0.08	0.08	40	ug/L
Pyrene	<0.08	0.08	40	ug/L
Dimethylaminoazobenzene	<0.2	0.2	100	ug/L
Butyl benzyl phthalate	<0.3	0.3	150	ug/L
Benzo (a) anthracene	<0.1	0.1	50	ug/L
Chrysene	<0.1	0.1	50	ug/L
Bis(2-ethylhexyl)phthalate	<0.3	0.3	150	ug/L
Di-n-octyl phthalate	<0.3	0.3	150	ug/L
Benzo (b) fluoranthene	<0.16	0.16	80	ug/L
7,12-Dimethylbenz (a) anthracene	<0.2	0.2	100	ug/L
Benzo (k) fluoranthene	<0.16	0.16	80	ug/L
Benzo (a) pyrene	<0.16	0.16	80	ug/L
3-Methylcholanthrene	<0.2	0.2	100	ug/L
Indeno (1,2,3-cd) pyrene	<0.2	0.2	100	ug/L
Dibenzo (a,h) anthracene	<0.16	0.16	80	ug/L
Benzo (g,h,i) perylene	<0.16	0.16	80	ug/L
Initial Volume	500			mL
Final Volume	1			mL
Dilution Factor	1			
Analyzed By	Ed Harris			
Analysis Date/Time	6/3/2013 8:41 PM			
Prep By	Ed Harris			
Prep Date/Time	5/30/2013 13:00			

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501-682-0955

Client: Special Samples

Client Sample ID: WS-006

Lab ID: 2013-1933

Collection Date: 5/29/2013

Matrix: Water

Analyses

Oil and Grease

EPA1664

Batch: 13060303 Run: 1

	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
Oil and Grease	<2.5	2.5	2.5		mg/L
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	05/13/2013 0800				

Semi-Volatiles by GC/MS

EPA 3510C/EPA 8270D

Batch: 13060401 Run: 1

	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
2-Fluorophenol (% Recovery)	30.7	40-110			%
Nitrobenzene-d5 (% Recovery)	64.8	50-110			%
2-Fluorobiphenyl (% Recovery)	59.2	50-110			%
2,4,6-Tribromophenol (% Recovery)	62.9	40-110			%
Terphenyl-d14 (% Recovery)	59.9	50-110			%
Methyl Methanesulfonate	<0.2	0.2	100		ug/L
Ethyl methanesulfonate	<0.2	0.2	100		ug/L
Phenol	<0.2	0.2	100		ug/L
Aniline	<0.2	0.2	100		ug/L
Bis(2-chloroethyl)ether	<0.2	0.2	100		ug/L
2-Chlorophenol	<0.2	0.2	100		ug/L
1,3-Dichlorobenzene	<0.12	0.12	60		ug/L
1,4-Dichlorobenzene	<0.12	0.12	60		ug/L
Benzyl alcohol	0.203	0.16	80		ug/L
1,2-Dichlorobenzene	<0.12	0.12	60		ug/L
2-Methylphenol	<0.1	0.1	50		ug/L
Acetophenone	<0.1	0.1	50		ug/L
4-Methylphenol	<0.1	0.1	50		ug/L
N-Nitrosodi-n-propylamine	<0.2	0.2	100		ug/L
Hexachloroethane	<0.2	0.2	100		ug/L
Nitrobenzene	<0.2	0.2	100		ug/L
N-Nitrosopiperidine	<0.2	0.2	100		ug/L
Isophorone	<0.1	0.1	50		ug/L

2-Nitrophenol	<0.3	0.3	150	ug/L
2,4-Dimethylphenol	<0.1	0.1	50	ug/L
Bis(2-chloroethoxy)methane	<0.2	0.2	100	ug/L
2,4-Dichlorophenol	<0.2	0.2	100	ug/L
1,2,4-Trichlorobenzene	<0.12	0.12	60	ug/L
Naphthalene	<0.08	0.08	40	ug/L
4-Chloroaniline	<0.1	0.1	50	ug/L
2,6-Dichlorophenol	<0.2	0.2	100	ug/L
Hexachlorobutadiene	<0.2	0.2	100	ug/L
N-Nitrosodibutylamine	<0.2	0.2	100	ug/L
4-Chloro-3-methylphenol	<0.16	0.16	80	ug/L
2-Methylnaphthalene	<0.1	0.1	50	ug/L
1,2,4,5-Tetrachlorobenzene	<0.1	0.1	50	ug/L
Hexachlorocyclopentadiene	<0.16	0.16	80	ug/L
2,4,6-Trichlorophenol	<0.2	0.2	100	ug/L
2,4,5-Trichlorophenol	<0.2	0.2	100	ug/L
2-Chloronaphthalene	<0.1	0.1	50	ug/L
1-Chloronaphthalene	<0.1	0.1	50	ug/L
2-Nitroaniline	<0.2	0.2	100	ug/L
Dimethyl phthalate	<0.2	0.2	100	ug/L
2,6-Dinitrotoluene	<0.2	0.2	100	ug/L
Acenaphthylene	<0.08	0.08	40	ug/L
3-Nitroaniline	<0.2	0.2	100	ug/L
Acenaphthene	<0.1	0.1	50	ug/L
2,4-Dinitrophenol	<4	4	2000	ug/L
Pentachlorobenzene	<0.12	0.12	60	ug/L
4-Nitrophenol	<2	2	1000	ug/L
Dibenzofuran	<0.1	0.1	50	ug/L
2,4-Dinitrotoluene	<0.2	0.2	100	ug/L
2,3,4,6-Tetrachlorophenol	<0.6	0.6	300	ug/L
Diethyl phthalate	<0.2	0.2	100	ug/L
Fluorene	<0.1	0.1	50	ug/L
4-Chlorophenyl phenyl ether	<0.1	0.1	50	ug/L
4-Nitroaniline	<0.2	0.2	100	ug/L
4,6-Dinitro-2-methylphenol	<6	6	3000	ug/L
Diphenylamine	<0.1	0.1	50	ug/L
Azobenzene	<0.08	0.08	40	ug/L
4-Bromophenyl phenyl ether	<0.2	0.2	100	ug/L
Hexachlorobenzene	<0.16	0.16	80	ug/L
Pentachlorophenol	<1	1	500	ug/L

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Pentachloronitrobenzene	<0.2	0.2	100	ug/L
Pronamide	<0.2	0.2	100	ug/L
Phenanthrene	<0.08	0.08	40	ug/L
Anthracene	<0.08	0.08	40	ug/L
Carbazole	<0.1	0.1	50	ug/L
Di-n-butyl phthalate	<0.2	0.2	100	ug/L
Fluoranthene	<0.08	0.08	40	ug/L
Pyrene	<0.08	0.08	40	ug/L
Dimethylaminoazobenzene	<0.2	0.2	100	ug/L
Butyl benzyl phthalate	<0.3	0.3	150	ug/L
Benzo (a) anthracene	<0.1	0.1	50	ug/L
Chrysene	<0.1	0.1	50	ug/L
Bis(2-ethylhexyl)phthalate	<0.3	0.3	150	ug/L
Di-n-octyl phthalate	<0.3	0.3	150	ug/L
Benzo (b) fluoranthene	<0.16	0.16	80	ug/L
7,12-Dimethylbenz (a) anthracene	<0.2	0.2	100	ug/L
Benzo (k) fluoranthene	<0.16	0.16	80	ug/L
Benzo (a) pyrene	<0.16	0.16	80	ug/L
3-Methylcholanthrene	<0.2	0.2	100	ug/L
Indeno (1,2,3-cd) pyrene	<0.2	0.2	100	ug/L
Dibenzo (a,h) anthracene	<0.16	0.16	80	ug/L
Benzo (g,h,i) perylene	<0.16	0.16	80	ug/L
Initial Volume	500			mL
Final Volume	1			mL
Dilution Factor	1			
Analyzed By	Ed Harris			
Analysis Date/Time	6/3/2013 9:11 PM			
Prep By	Ed Harris			
Prep Date/Time	5/30/2013 13:00			

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Client: Special Samples

Client Sample ID: WS-007

Lab ID: 2013-1934

Collection Date: 5/29/2013

Matrix: Water

Analyses

Oil and Grease

EPA1664

Batch: 13060303 Run: 1

	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
Oil and Grease	<2.5	2.5	2.5		mg/L
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	05/13/2013 0800				

Semi-Volatiles by GC/MS

EPA 3510C/EPA 8270D

Batch: 13060401 Run: 1

	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
2-Fluorophenol (% Recovery)	25.3	40-110			%
Nitrobenzene-d5 (% Recovery)	63.6	50-110			%
2-Fluorobiphenyl (% Recovery)	56.8	50-110			%
2,4,6-Tribromophenol (% Recovery)	36.4	40-110			%
Terphenyl-d14 (% Recovery)	49.7	50-110			%
Methyl Methanesulfonate	<0.2	0.2	100		ug/L
Ethyl methanesulfonate	<0.2	0.2	100		ug/L
Phenol	<0.2	0.2	100		ug/L
Aniline	<0.2	0.2	100		ug/L
Bis(2-chloroethyl)ether	<0.2	0.2	100		ug/L
2-Chlorophenol	<0.2	0.2	100		ug/L
1,3-Dichlorobenzene	<0.12	0.12	60		ug/L
1,4-Dichlorobenzene	<0.12	0.12	60		ug/L
Benzyl alcohol	0.233	0.16	80		ug/L
1,2-Dichlorobenzene	<0.12	0.12	60		ug/L
2-Methylphenol	<0.1	0.1	50		ug/L
Acetophenone	<0.1	0.1	50		ug/L
4-Methylphenol	<0.1	0.1	50		ug/L
N-Nitrosodi-n-propylamine	<0.2	0.2	100		ug/L
Hexachloroethane	<0.2	0.2	100		ug/L
Nitrobenzene	<0.2	0.2	100		ug/L
N-Nitrosopiperidine	<0.2	0.2	100		ug/L
Isophorone	<0.1	0.1	50		ug/L

2-Nitrophenol	<0.3	0.3	150	ug/L
2,4-Dimethylphenol	<0.1	0.1	50	ug/L
Bis(2-chloroethoxy)methane	<0.2	0.2	100	ug/L
2,4-Dichlorophenol	<0.2	0.2	100	ug/L
1,2,4-Trichlorobenzene	<0.12	0.12	60	ug/L
Naphthalene	<0.08	0.08	40	ug/L
4-Chloroaniline	<0.1	0.1	50	ug/L
2,6-Dichlorophenol	<0.2	0.2	100	ug/L
Hexachlorobutadiene	<0.2	0.2	100	ug/L
N-Nitrosodibutylamine	<0.2	0.2	100	ug/L
4-Chloro-3-methylphenol	<0.16	0.16	80	ug/L
2-Methylnaphthalene	<0.1	0.1	50	ug/L
1,2,4,5-Tetrachlorobenzene	<0.1	0.1	50	ug/L
Hexachlorocyclopentadiene	<0.16	0.16	80	ug/L
2,4,6-Trichlorophenol	<0.2	0.2	100	ug/L
2,4,5-Trichlorophenol	<0.2	0.2	100	ug/L
2-Chloronaphthalene	<0.1	0.1	50	ug/L
1-Chloronaphthalene	<0.1	0.1	50	ug/L
2-Nitroaniline	<0.2	0.2	100	ug/L
Dimethyl phthalate	<0.2	0.2	100	ug/L
2,6-Dinitrotoluene	<0.2	0.2	100	ug/L
Acenaphthylene	<0.08	0.08	40	ug/L
3-Nitroaniline	<0.2	0.2	100	ug/L
Acenaphthene	<0.1	0.1	50	ug/L
2,4-Dinitrophenol	<4	4	2000	ug/L
Pentachlorobenzene	<0.12	0.12	60	ug/L
4-Nitrophenol	<2	2	1000	ug/L
Dibenzofuran	<0.1	0.1	50	ug/L
2,4-Dinitrotoluene	<0.2	0.2	100	ug/L
2,3,4,6-Tetrachlorophenol	<0.6	0.6	300	ug/L
Diethyl phthalate	<0.2	0.2	100	ug/L
Fluorene	<0.1	0.1	50	ug/L
4-Chlorophenyl phenyl ether	<0.1	0.1	50	ug/L
4-Nitroaniline	<0.2	0.2	100	ug/L
4,6-Dinitro-2-methylphenol	<6	6	3000	ug/L
Diphenylamine	<0.1	0.1	50	ug/L
Azobenzene	<0.08	0.08	40	ug/L
4-Bromophenyl phenyl ether	<0.2	0.2	100	ug/L
Hexachlorobenzene	<0.16	0.16	80	ug/L
Pentachlorophenol	<1	1	500	ug/L

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Pentachloronitrobenzene	<0.2	0.2	100	ug/L
Pronamide	<0.2	0.2	100	ug/L
Phenanthrene	<0.08	0.08	40	ug/L
Anthracene	<0.08	0.08	40	ug/L
Carbazole	<0.1	0.1	50	ug/L
Di-n-butyl phthalate	<0.2	0.2	100	ug/L
Fluoranthene	<0.08	0.08	40	ug/L
Pyrene	<0.08	0.08	40	ug/L
Dimethylaminoazobenzene	<0.2	0.2	100	ug/L
Butyl benzyl phthalate	<0.3	0.3	150	ug/L
Benzo (a) anthracene	<0.1	0.1	50	ug/L
Chrysene	<0.1	0.1	50	ug/L
Bis(2-ethylhexyl)phthalate	<0.3	0.3	150	ug/L
Di-n-octyl phthalate	<0.3	0.3	150	ug/L
Benzo (b) fluoranthene	<0.16	0.16	80	ug/L
7,12-Dimethylbenz (a) anthracene	<0.2	0.2	100	ug/L
Benzo (k) fluoranthene	<0.16	0.16	80	ug/L
Benzo (a) pyrene	<0.16	0.16	80	ug/L
3-Methylcholanthrene	<0.2	0.2	100	ug/L
Indeno (1,2,3-cd) pyrene	<0.2	0.2	100	ug/L
Dibenzo (a,h) anthracene	<0.16	0.16	80	ug/L
Benzo (g,h,i) perylene	<0.16	0.16	80	ug/L
Initial Volume	500			mL
Final Volume	1			mL
Dilution Factor	1			
Analyzed By	Ed Harris			
Analysis Date/Time	6/3/2013 9:40 PM			
Prep By	Ed Harris			
Prep Date/Time	5/30/2013 13:00			

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Client: Special Samples

Client Sample ID: WS-008

Lab ID: 2013-1935

Collection Date: 5/29/2013

Matrix: Water

Analyses

Oil and Grease

EPA1664

Batch: 13060303 Run: 1

	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
Oil and Grease	<2.5	2.5	2.5		mg/L
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	05/13/2013 0800				

Semi-Volatiles by GC/MS

EPA 3510C/EPA 8270D

Batch: 13060401 Run: 1

	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
2-Fluorophenol (% Recovery)	27.5	40-110			%
Nitrobenzene-d5 (% Recovery)	64.0	50-110			%
2-Fluorobiphenyl (% Recovery)	63.2	50-110			%
2,4,6-Tribromophenol (% Recovery)	62.5	40-110			%
Terphenyl-d14 (% Recovery)	54.1	50-110			%
Methyl Methanesulfonate	<0.2	0.2	100		ug/L
Ethyl methanesulfonate	<0.2	0.2	100		ug/L
Phenol	<0.2	0.2	100		ug/L
Aniline	<0.2	0.2	100		ug/L
Bis(2-chloroethyl)ether	<0.2	0.2	100		ug/L
2-Chlorophenol	<0.2	0.2	100		ug/L
1,3-Dichlorobenzene	<0.12	0.12	60		ug/L
1,4-Dichlorobenzene	<0.12	0.12	60		ug/L
Benzyl alcohol	0.206	0.16	80		ug/L
1,2-Dichlorobenzene	<0.12	0.12	60		ug/L
2-Methylphenol	<0.1	0.1	50		ug/L
Acetophenone	<0.1	0.1	50		ug/L
4-Methylphenol	<0.1	0.1	50		ug/L
N-Nitrosodi-n-propylamine	<0.2	0.2	100		ug/L
Hexachloroethane	<0.2	0.2	100		ug/L
Nitrobenzene	<0.2	0.2	100		ug/L
N-Nitrosopiperidine	<0.2	0.2	100		ug/L
Isophorone	<0.1	0.1	50		ug/L

2-Nitrophenol	<0.3	0.3	150	ug/L
2,4-Dimethylphenol	<0.1	0.1	50	ug/L
Bis(2-chloroethoxy)methane	<0.2	0.2	100	ug/L
2,4-Dichlorophenol	<0.2	0.2	100	ug/L
1,2,4-Trichlorobenzene	<0.12	0.12	60	ug/L
Naphthalene	<0.08	0.08	40	ug/L
4-Chloroaniline	<0.1	0.1	50	ug/L
2,6-Dichlorophenol	<0.2	0.2	100	ug/L
Hexachlorobutadiene	<0.2	0.2	100	ug/L
N-Nitrosodibutylamine	<0.2	0.2	100	ug/L
4-Chloro-3-methylphenol	<0.16	0.16	80	ug/L
2-Methylnaphthalene	<0.1	0.1	50	ug/L
1,2,4,5-Tetrachlorobenzene	<0.1	0.1	50	ug/L
Hexachlorocyclopentadiene	<0.16	0.16	80	ug/L
2,4,6-Trichlorophenol	<0.2	0.2	100	ug/L
2,4,5-Trichlorophenol	<0.2	0.2	100	ug/L
2-Chloronaphthalene	<0.1	0.1	50	ug/L
1-Chloronaphthalene	<0.1	0.1	50	ug/L
2-Nitroaniline	<0.2	0.2	100	ug/L
Dimethyl phthalate	<0.2	0.2	100	ug/L
2,6-Dinitrotoluene	<0.2	0.2	100	ug/L
Acenaphthylene	<0.08	0.08	40	ug/L
3-Nitroaniline	<0.2	0.2	100	ug/L
Acenaphthene	<0.1	0.1	50	ug/L
2,4-Dinitrophenol	<4	4	2000	ug/L
Pentachlorobenzene	<0.12	0.12	60	ug/L
4-Nitrophenol	<2	2	1000	ug/L
Dibenzofuran	<0.1	0.1	50	ug/L
2,4-Dinitrotoluene	<0.2	0.2	100	ug/L
2,3,4,6-Tetrachlorophenol	<0.6	0.6	300	ug/L
Diethyl phthalate	<0.2	0.2	100	ug/L
Fluorene	<0.1	0.1	50	ug/L
4-Chlorophenyl phenyl ether	<0.1	0.1	50	ug/L
4-Nitroaniline	<0.2	0.2	100	ug/L
4,6-Dinitro-2-methylphenol	<6	6	3000	ug/L
Diphenylamine	<0.1	0.1	50	ug/L
Azobenzene	<0.08	0.08	40	ug/L
4-Bromophenyl phenyl ether	<0.2	0.2	100	ug/L
Hexachlorobenzene	<0.16	0.16	80	ug/L
Pentachlorophenol	<1	1	500	ug/L

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Pentachloronitrobenzene	<0.2	0.2	100	ug/L
Pronamide	<0.2	0.2	100	ug/L
Phenanthrene	<0.08	0.08	40	ug/L
Anthracene	<0.08	0.08	40	ug/L
Carbazole	<0.1	0.1	50	ug/L
Di-n-butyl phthalate	0.392	0.2	100	ug/L
Fluoranthene	<0.08	0.08	40	ug/L
Pyrene	<0.08	0.08	40	ug/L
Dimethylaminoazobenzene	<0.2	0.2	100	ug/L
Butyl benzyl phthalate	<0.3	0.3	150	ug/L
Benzo (a) anthracene	<0.1	0.1	50	ug/L
Chrysene	<0.1	0.1	50	ug/L
Bis(2-ethylhexyl)phthalate	<0.3	0.3	150	ug/L
Di-n-octyl phthalate	<0.3	0.3	150	ug/L
Benzo (b) fluoranthene	<0.16	0.16	80	ug/L
7,12-Dimethylbenz (a) anthracene	<0.2	0.2	100	ug/L
Benzo (k) fluoranthene	<0.16	0.16	80	ug/L
Benzo (a) pyrene	<0.16	0.16	80	ug/L
3-Methylcholanthrene	<0.2	0.2	100	ug/L
Indeno (1,2,3-cd) pyrene	<0.2	0.2	100	ug/L
Dibenzo (a,h) anthracene	<0.16	0.16	80	ug/L
Benzo (g,h,i) perylene	<0.16	0.16	80	ug/L
Initial Volume	500			mL
Final Volume	1			mL
Dilution Factor	1			
Analyzed By	Ed Harris			
Analysis Date/Time	6/3/2013 10:10 PM			
Prep By	Ed Harris			
Prep Date/Time	5/30/2013 13:00			

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Client: Special Samples

Client Sample ID: WS-019

Lab ID: 2013-1936

Collection Date: 5/29/2013

Matrix: Water

Analyses

Oil and Grease

EPA1664

Batch: 13060303 Run: 1

	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
Oil and Grease	<2.5	2.5	2.5		mg/L
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	05/13/2013 0800				

Semi-Volatiles by GC/MS

EPA 3510C/EPA 8270D

Batch: 13060401 Run: 1

	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
2-Fluorophenol (% Recovery)	14.7	40-110			%
Nitrobenzene-d5 (% Recovery)	46.5	50-110			%
2-Fluorobiphenyl (% Recovery)	39.8	50-110			%
2,4,6-Tribromophenol (% Recovery)	35.0	40-110			%
Terphenyl-d14 (% Recovery)	14.2	50-110			%
Methyl Methanesulfonate	<0.2	0.2	100		ug/L
Ethyl methanesulfonate	<0.2	0.2	100		ug/L
Phenol	<0.2	0.2	100		ug/L
Aniline	<0.2	0.2	100		ug/L
Bis(2-chloroethyl)ether	<0.2	0.2	100		ug/L
2-Chlorophenol	<0.2	0.2	100		ug/L
1,3-Dichlorobenzene	<0.12	0.12	60		ug/L
1,4-Dichlorobenzene	<0.12	0.12	60		ug/L
Benzyl alcohol	2.20	0.16	80		ug/L
1,2-Dichlorobenzene	<0.12	0.12	60		ug/L
2-Methylphenol	<0.1	0.1	50		ug/L
Acetophenone	<0.1	0.1	50		ug/L
4-Methylphenol	<0.1	0.1	50		ug/L
N-Nitrosodi-n-propylamine	<0.2	0.2	100		ug/L
Hexachloroethane	<0.2	0.2	100		ug/L
Nitrobenzene	<0.2	0.2	100		ug/L
N-Nitrosopiperidine	<0.2	0.2	100		ug/L
Isophorone	<0.1	0.1	50		ug/L

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Laboratory Contact: Jeff Ruehr
Ruehr@adeq.state.ar.us
501-682-0955

2-Nitrophenol	<0.3	0.3	150	ug/L
2,4-Dimethylphenol	<0.1	0.1	50	ug/L
Bis(2-chloroethoxy)methane	<0.2	0.2	100	ug/L
2,4-Dichlorophenol	<0.2	0.2	100	ug/L
1,2,4-Trichlorobenzene	<0.12	0.12	60	ug/L
Naphthalene	<0.08	0.08	40	ug/L
4-Chloroaniline	<0.1	0.1	50	ug/L
2,6-Dichlorophenol	<0.2	0.2	100	ug/L
Hexachlorobutadiene	<0.2	0.2	100	ug/L
N-Nitrosodibutylamine	<0.2	0.2	100	ug/L
4-Chloro-3-methylphenol	<0.16	0.16	80	ug/L
2-Methylnaphthalene	<0.1	0.1	50	ug/L
1,2,4,5-Tetrachlorobenzene	<0.1	0.1	50	ug/L
Hexachlorocyclopentadiene	<0.16	0.16	80	ug/L
2,4,6-Trichlorophenol	<0.2	0.2	100	ug/L
2,4,5-Trichlorophenol	<0.2	0.2	100	ug/L
2-Chloronaphthalene	<0.1	0.1	50	ug/L
1-Chloronaphthalene	<0.1	0.1	50	ug/L
2-Nitroaniline	<0.2	0.2	100	ug/L
Dimethyl phthalate	<0.2	0.2	100	ug/L
2,6-Dinitrotoluene	<0.2	0.2	100	ug/L
Acenaphthylene	<0.08	0.08	40	ug/L
3-Nitroaniline	<0.2	0.2	100	ug/L
Acenaphthene	<0.1	0.1	50	ug/L
2,4-Dinitrophenol	<4	4	2000	ug/L
Pentachlorobenzene	<0.12	0.12	60	ug/L
4-Nitrophenol	<2	2	1000	ug/L
Dibenzofuran	<0.1	0.1	50	ug/L
2,4-Dinitrotoluene	<0.2	0.2	100	ug/L
2,3,4,6-Tetrachlorophenol	<0.6	0.6	300	ug/L
Diethyl phthalate	<0.2	0.2	100	ug/L
Fluorene	<0.1	0.1	50	ug/L
4-Chlorophenyl phenyl ether	<0.1	0.1	50	ug/L
4-Nitroaniline	<0.2	0.2	100	ug/L
4,6-Dinitro-2-methylphenol	<6	6	3000	ug/L
Diphenylamine	<0.1	0.1	50	ug/L
Azobenzene	<0.08	0.08	40	ug/L
4-Bromophenyl phenyl ether	<0.2	0.2	100	ug/L
Hexachlorobenzene	<0.16	0.16	80	ug/L
Pentachlorophenol	<1	1	500	ug/L

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Pentachloronitrobenzene	<0.2	0.2	100	ug/L
Pronamide	<0.2	0.2	100	ug/L
Phenanthrene	<0.08	0.08	40	ug/L
Anthracene	<0.08	0.08	40	ug/L
Carbazole	<0.1	0.1	50	ug/L
Di-n-butyl phthalate	2.49	0.2	100	ug/L
Fluoranthene	<0.08	0.08	40	ug/L
Pyrene	<0.08	0.08	40	ug/L
Dimethylaminoazobenzene	<0.2	0.2	100	ug/L
Butyl benzyl phthalate	0.876	0.3	150	ug/L
Benzo (a) anthracene	<0.1	0.1	50	ug/L
Chrysene	<0.1	0.1	50	ug/L
Bis(2-ethylhexyl)phthalate	0.394	0.3	150	ug/L
Di-n-octyl phthalate	<0.3	0.3	150	ug/L
Benzo (b) fluoranthene	<0.16	0.16	80	ug/L
7,12-Dimethylbenz (a) anthracene	<0.2	0.2	100	ug/L
Benzo (k) fluoranthene	<0.16	0.16	80	ug/L
Benzo (a) pyrene	<0.16	0.16	80	ug/L
3-Methylcholanthrene	<0.2	0.2	100	ug/L
Indeno (1,2,3-cd) pyrene	<0.2	0.2	100	ug/L
Dibenzo (a,h) anthracene	<0.16	0.16	80	ug/L
Benzo (g,h,i) perylene	<0.16	0.16	80	ug/L
Initial Volume	500			mL
Final Volume	1			mL
Dilution Factor	1			
Analyzed By	Ed Harris			
Analysis Date/Time	6/3/2013 10:39 PM			
Prep By	Ed Harris			
Prep Date/Time	5/30/2013 13:00			

Arkansas Department of Environmental Quality
5301 Northshore Drive
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Laboratory Contact: Jeff Ruehr
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501-682-0955

Client: Special Samples

Client Sample ID: WS-BKG-002

Lab ID: 2013-1928

Collection Date: 5/29/2013

Matrix: Water

Analyses

Dissolved Metals by EPA 200.8

EPA 200.8

Batch: 13060601 Run: 1

	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
Aluminum	157	20	20		ug/L
Antimony	<5	5	1.0		ug/L
Arsenic	1.09	0.5	0.2		ug/L
Barium	26.6	2	0.4		ug/L
Beryllium	<0.1	0.1	0.04		ug/L
Boron	21.1	5	2.0		ug/L
Cadmium	<0.1	0.1	0.05		ug/L
Calcium	7.93	0.03	0.03		mg/L
Chromium	<0.5	0.5	0.05		ug/L
Cobalt	0.69	0.5	0.05		ug/L
Copper	1.48	0.5	0.2		ug/L
Iron	555	20	5.0		ug/L
Lead	0.51	0.3	0.02		ug/L
Magnesium	3.84	0.02	0.01		mg/L
Manganese	123	0.3	0.07		ug/L
Nickel	2.63	0.5	0.15		ug/L
Potassium	2.63	0.02	0.01		mg/L
Selenium	<1	1	0.2		ug/L
Silicon Dioxide	6.38	0.05	0.01		mg/L
Silver	<0.5	0.5	0.02		ug/L
Sodium	14.4	0.02	0.01		mg/L
Thallium	<0.5	0.5	0.005		ug/L
Vanadium	0.65	0.5	0.3		ug/L
Zinc	7.04	1	0.3		ug/L
Hardness	35.6	1	1.0		mg/L
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	Jun 5 2013 4:07PM				

Total Metals by EPA 200.8

EPA 200.8

Batch: 13061002 Run: 1

Result Reporting MDL Qual Unit

Arkansas Department of Environmental Quality
5301 Northshore Drive
North Little Rock, AR 72118

Laboratory Contact: Jeff Ruehr
Ruehr@adeq.state.ar.us
501-682-0955

		<u>Limit</u>		
Aluminum	873	20	20	ug/L
Antimony	<10	10	5	ug/L
Arsenic	1.55	1	0.5	ug/L
Barium	34.1	10	2.0	ug/L
Beryllium	<0.5	0.5	0.1	ug/L
Boron	<25	25	5.0	ug/L
Cadmium	<1	1	0.3	ug/L
Calcium	8.41	0.04	0.04	mg/L
Chromium	<1	1	0.3	ug/L
Cobalt	1.24	1	0.5	ug/L
Copper	2.19	1	0.5	ug/L
Iron	1840	20	10.0	ug/L
Lead	2.20	1	0.1	ug/L
Magnesium	3.69	0.1	0.1	mg/L
Manganese	171	1	0.2	ug/L
Nickel	3.05	2.5	0.5	ug/L
Potassium	2.78	1	0.05	mg/L
Selenium	<2	2	0.5	ug/L
Silver	<5	5	1.0	ug/L
Sodium	13.3	0.04	0.02	mg/L
Thallium	<2.5	2.5	0.05	ug/L
Vanadium	<2.5	2.5	1.0	ug/L
Zinc	11.6	3	2.0	ug/L
Dilution Factor	1			
Analyzed By	Robert Graddy			
Analysis Date/Time	Jun 6 2013 12:04PM			
Prep By				
Prep Date/Time				

Arkansas Department of Environmental Quality
5301 Northshore Drive
North Little Rock, AR 72118

Laboratory Contact: Jeff Ruehr
Ruehr@adeq.state.ar.us
501-682-0955

Client: Special Samples

Client Sample ID: WS-001

Lab ID: 2013-1929

Collection Date: 5/29/2013

Matrix: Water

Analyses

Dissolved Metals by EPA 200.8

EPA 200.8

Batch: 13060601 Run: 1

	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
Aluminum	1040	20	20		ug/L
Antimony	<5	5	1.0		ug/L
Arsenic	1.83	0.5	0.2		ug/L
Barium	23.3	2	0.4		ug/L
Beryllium	<0.1	0.1	0.04		ug/L
Boron	19.1	5	2.0		ug/L
Cadmium	<0.1	0.1	0.05		ug/L
Calcium	3.11	0.03	0.03		mg/L
Chromium	1.03	0.5	0.05		ug/L
Cobalt	1.32	0.5	0.05		ug/L
Copper	2.25	0.5	0.2		ug/L
Iron	887	20	5.0		ug/L
Lead	0.7	0.3	0.02		ug/L
Magnesium	1.71	0.02	0.01		mg/L
Manganese	401	0.3	0.07		ug/L
Nickel	2.72	0.5	0.15		ug/L
Potassium	3.14	0.02	0.01		mg/L
Selenium	<1	1	0.2		ug/L
Silicon Dioxide	7.36	0.05	0.01		mg/L
Silver	<0.5	0.5	0.02		ug/L
Sodium	5.6	0.02	0.01		mg/L
Thallium	<0.5	0.5	0.005		ug/L
Vanadium	1.81	0.5	0.3		ug/L
Zinc	5.01	1	0.3		ug/L
Hardness	14.8	1	1.0		mg/L
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	Jun 5 2013 4:13PM				

Total Metals by EPA 200.8

EPA 200.8

Batch: 13061002 Run: 2

<u>Result</u>	<u>Reporting</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
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Arkansas Department of Environmental Quality
5301 Northshore Drive
North Little Rock, AR 72118

Laboratory Contact: Jeff Ruehr
Ruehr@adeq.state.ar.us
501-682-0955

		<u>Limit</u>		
Aluminum	13200	400	20	ug/L
Iron	15500	400	10.0	ug/L
Dilution Factor	20			
Analyzed By	Robert Graddy			
Analysis Date/Time	Jun 6 2013 12:11PM			
Prep By				
Prep Date/Time				

Total Metals by EPA 200.8

EPA 200.8

Batch: 13061002 Run: 1

	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
Antimony	<10	10	5		ug/L
Arsenic	4.91	1	0.5		ug/L
Barium	120	10	2.0		ug/L
Beryllium	0.90	0.5	0.1		ug/L
Boron	<25	25	5.0		ug/L
Cadmium	<1	1	0.3		ug/L
Calcium	4.77	0.04	0.04		mg/L
Chromium	8.73	1	0.3		ug/L
Cobalt	6.95	1	0.5		ug/L
Copper	5.98	1	0.5		ug/L
Lead	17.3	1	0.1		ug/L
Magnesium	3.02	0.1	0.1		mg/L
Manganese	819	1	0.2		ug/L
Nickel	9.94	2.5	0.5		ug/L
Potassium	3.55	1	0.05		mg/L
Selenium	<2	2	0.5		ug/L
Silver	<5	5	1.0		ug/L
Sodium	5.27	0.04	0.02		mg/L
Thallium	<2.5	2.5	0.05		ug/L
Vanadium	13.3	2.5	1.0		ug/L
Zinc	37.1	3	2.0		ug/L
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	Jun 6 2013 4:50PM				
Prep By					
Prep Date/Time					

Arkansas Department of Environmental Quality
5301 Northshore Drive
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Laboratory Contact: Jeff Ruehr
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501-682-0955

Client: Special Samples

Client Sample ID: WS-002

Lab ID: 2013-1930

Collection Date: 5/29/2013

Matrix: Water

Analyses

Dissolved Metals by EPA 200.8

EPA 200.8

Batch: 13060601 Run: 1

	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
Aluminum	<20	20	20		ug/L
Antimony	<5	5	1.0		ug/L
Arsenic	0.61	0.5	0.2		ug/L
Barium	8.87	2	0.4		ug/L
Beryllium	<0.1	0.1	0.04		ug/L
Boron	18.3	5	2.0		ug/L
Cadmium	<0.1	0.1	0.05		ug/L
Calcium	3.69	0.03	0.03		mg/L
Chromium	<0.5	0.5	0.05		ug/L
Cobalt	<0.5	0.5	0.05		ug/L
Copper	0.72	0.5	0.2		ug/L
Iron	37.6	20	5.0		ug/L
Lead	<0.3	0.3	0.02		ug/L
Magnesium	2.06	0.02	0.01		mg/L
Manganese	0.78	0.3	0.07		ug/L
Nickel	0.86	0.5	0.15		ug/L
Potassium	2.09	0.02	0.01		mg/L
Selenium	<1	1	0.2		ug/L
Silicon Dioxide	1.59	0.05	0.01		mg/L
Silver	<0.5	0.5	0.02		ug/L
Sodium	6.28	0.02	0.01		mg/L
Thallium	<0.5	0.5	0.005		ug/L
Vanadium	<0.5	0.5	0.3		ug/L
Zinc	1.15	1	0.3		ug/L
Hardness	17.7	1	1.0		mg/L
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	Jun 5 2013 4:19PM				

Total Metals by EPA 200.8

EPA 200.8

Batch: 13061002 Run: 1

Result Reporting MDL Qual Unit

Arkansas Department of Environmental Quality
5301 Northshore Drive
North Little Rock, AR 72118

Laboratory Contact: Jeff Ruehr
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501-682-0955

		<u>Limit</u>		
Aluminum	102	20	20	ug/L
Antimony	<10	10	5	ug/L
Arsenic	<1	1	0.5	ug/L
Barium	16.1	10	2.0	ug/L
Beryllium	<0.5	0.5	0.1	ug/L
Boron	<25	25	5.0	ug/L
Cadmium	<1	1	0.3	ug/L
Calcium	4.02	0.04	0.04	mg/L
Chromium	<1	1	0.3	ug/L
Cobalt	<1	1	0.5	ug/L
Copper	<1	1	0.5	ug/L
Iron	524	20	10.0	ug/L
Lead	<1	1	0.1	ug/L
Magnesium	1.94	0.1	0.1	mg/L
Manganese	288	1	0.2	ug/L
Nickel	<2.5	2.5	0.5	ug/L
Potassium	2.20	1	0.05	mg/L
Selenium	<2	2	0.5	ug/L
Silver	<5	5	1.0	ug/L
Sodium	5.37	0.04	0.02	mg/L
Thallium	<2.5	2.5	0.05	ug/L
Vanadium	<2.5	2.5	1.0	ug/L
Zinc	5.02	3	2.0	ug/L
Dilution Factor	1			
Analyzed By	Robert Graddy			
Analysis Date/Time	Jun 6 2013 12:17PM			
Prep By				
Prep Date/Time				

Arkansas Department of Environmental Quality
5301 Northshore Drive
North Little Rock, AR 72118

Laboratory Contact: Jeff Ruehr
Ruehr@adeq.state.ar.us
501-682-0955

Client: Special Samples

Client Sample ID: WS-003

Lab ID: 2013-1931

Collection Date: 5/29/2013

Matrix: Water

Analyses

Dissolved Metals by EPA 200.8

EPA 200.8

Batch: 13060601 Run: 1

	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
Aluminum	<20	20	20		ug/L
Antimony	<5	5	1.0		ug/L
Arsenic	0.56	0.5	0.2		ug/L
Barium	9.73	2	0.4		ug/L
Beryllium	<0.1	0.1	0.04		ug/L
Boron	18.2	5	2.0		ug/L
Cadmium	<0.1	0.1	0.05		ug/L
Calcium	3.76	0.03	0.03		mg/L
Chromium	<0.5	0.5	0.05		ug/L
Cobalt	<0.5	0.5	0.05		ug/L
Copper	0.68	0.5	0.2		ug/L
Iron	31.0	20	5.0		ug/L
Lead	<0.3	0.3	0.02		ug/L
Magnesium	2.06	0.02	0.01		mg/L
Manganese	0.89	0.3	0.07		ug/L
Nickel	0.81	0.5	0.15		ug/L
Potassium	2.06	0.02	0.01		mg/L
Selenium	<1	1	0.2		ug/L
Silicon Dioxide	1.80	0.05	0.01		mg/L
Silver	<0.5	0.5	0.02		ug/L
Sodium	6.16	0.02	0.01		mg/L
Thallium	<0.5	0.5	0.005		ug/L
Vanadium	<0.5	0.5	0.3		ug/L
Zinc	1.04	1	0.3		ug/L
Hardness	17.9	1	1.0		mg/L
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	Jun 5 2013 4:26PM				

Total Metals by EPA 200.8

EPA 200.8

Batch: 13061002 Run: 1

Result Reporting MDL Qual Unit

Arkansas Department of Environmental Quality
5301 Northshore Drive
North Little Rock, AR 72118

Laboratory Contact: Jeff Ruehr
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501-682-0955

		<u>Limit</u>		
Aluminum	129	20	20	ug/L
Antimony	<10	10	5	ug/L
Arsenic	<1	1	0.5	ug/L
Barium	19.5	10	2.0	ug/L
Beryllium	<0.5	0.5	0.1	ug/L
Boron	<25	25	5.0	ug/L
Cadmium	<1	1	0.3	ug/L
Calcium	4.10	0.04	0.04	mg/L
Chromium	<1	1	0.3	ug/L
Cobalt	<1	1	0.5	ug/L
Copper	<1	1	0.5	ug/L
Iron	589	20	10.0	ug/L
Lead	<1	1	0.1	ug/L
Magnesium	2.00	0.1	0.1	mg/L
Manganese	432	1	0.2	ug/L
Nickel	<2.5	2.5	0.5	ug/L
Potassium	2.19	1	0.05	mg/L
Selenium	<2	2	0.5	ug/L
Silver	<5	5	1.0	ug/L
Sodium	5.38	0.04	0.02	mg/L
Thallium	<2.5	2.5	0.05	ug/L
Vanadium	<2.5	2.5	1.0	ug/L
Zinc	<3	3	2.0	ug/L
Dilution Factor	1			
Analyzed By	Robert Graddy			
Analysis Date/Time	Jun 6 2013 12:23PM			
Prep By				
Prep Date/Time				

Arkansas Department of Environmental Quality
5301 Northshore Drive
North Little Rock, AR 72118

Laboratory Contact: Jeff Ruehr
Ruehr@adeq.state.ar.us
501-682-0955

Client: Special Samples

Client Sample ID: WS-004

Lab ID: 2013-1932

Collection Date: 5/29/2013

Matrix: Water

Analyses

Dissolved Metals by EPA 200.8

EPA 200.8

Batch: 13060601 Run: 1

	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
Aluminum	738	20	20		ug/L
Antimony	<5	5	1.0		ug/L
Arsenic	2.00	0.5	0.2		ug/L
Barium	18.7	2	0.4		ug/L
Beryllium	0.1	0.1	0.04		ug/L
Boron	17.4	5	2.0		ug/L
Cadmium	<0.1	0.1	0.05		ug/L
Calcium	2.75	0.03	0.03		mg/L
Chromium	0.82	0.5	0.05		ug/L
Cobalt	0.84	0.5	0.05		ug/L
Copper	3.19	0.5	0.2		ug/L
Iron	901	20	5.0		ug/L
Lead	1.13	0.3	0.02		ug/L
Magnesium	1.17	0.02	0.01		mg/L
Manganese	104	0.3	0.07		ug/L
Nickel	2.47	0.5	0.15		ug/L
Potassium	3.48	0.02	0.01		mg/L
Selenium	<1	1	0.2		ug/L
Silicon Dioxide	6.06	0.05	0.01		mg/L
Silver	<0.5	0.5	0.02		ug/L
Sodium	4.60	0.02	0.01		mg/L
Thallium	<0.5	0.5	0.005		ug/L
Vanadium	1.62	0.5	0.3		ug/L
Zinc	4.56	1	0.3		ug/L
Hardness	11.7	1	1.0		mg/L
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	Jun 5 2013 5:29PM				

Total Metals by EPA 200.8

EPA 200.8

Batch: 13061002 Run: 2

Result Reporting MDL Qual Unit

Arkansas Department of Environmental Quality
5301 Northshore Drive
North Little Rock, AR 72118

Laboratory Contact: Jeff Ruehr
Ruehr@adeq.state.ar.us
501-682-0955

		<u>Limit</u>		
Aluminum	13500	400	20	ug/L
Iron	17800	400	10.0	ug/L
Analyzed By	Robert Graddy			
Analysis Date/Time	Jun 6 2013 1:01PM			
Prep By				
Prep Date/Time				

Total Metals by EPA 200.8

EPA 200.8

Batch: 13061002 Run: 1

	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
Antimony	<10	10	5		ug/L
Arsenic	5.88	1	0.5		ug/L
Barium	136	10	2.0		ug/L
Beryllium	1.21	0.5	0.1		ug/L
Boron	<25	25	5.0		ug/L
Cadmium	<1	1	0.3		ug/L
Calcium	4.86	0.04	0.04		mg/L
Chromium	9.76	1	0.3		ug/L
Cobalt	7.86	1	0.5		ug/L
Copper	7.03	1	0.5		ug/L
Lead	23.4	1	0.1		ug/L
Magnesium	3.06	0.1	0.1		mg/L
Manganese	491	1	0.2		ug/L
Nickel	11.5	2.5	0.5		ug/L
Potassium	3.98	1	0.05		mg/L
Selenium	<2	2	0.5		ug/L
Silver	<5	5	1.0		ug/L
Sodium	5.11	0.04	0.02		mg/L
Thallium	<2.5	2.5	0.05		ug/L
Vanadium	15.4	2.5	1.0		ug/L
Zinc	48.7	3	2.0		ug/L
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	Jun 6 2013 4:56PM				
Prep By					
Prep Date/Time					

Arkansas Department of Environmental Quality
5301 Northshore Drive
North Little Rock, AR 72118

Laboratory Contact: Jeff Ruehr
Ruehr@adeq.state.ar.us
501-682-0955

Client: Special Samples

Client Sample ID: WS-006

Lab ID: 2013-1933

Collection Date: 5/29/2013

Matrix: Water

Analyses

Dissolved Metals by EPA 200.8

EPA 200.8

Batch: 13060601 Run: 1

	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
Aluminum	56.7	20	20		ug/L
Antimony	<5	5	1.0		ug/L
Arsenic	1.28	0.5	0.2		ug/L
Barium	12.7	2	0.4		ug/L
Beryllium	<0.1	0.1	0.04		ug/L
Boron	16.8	5	2.0		ug/L
Cadmium	<0.1	0.1	0.05		ug/L
Calcium	4.02	0.03	0.03		mg/L
Chromium	<0.5	0.5	0.05		ug/L
Cobalt	<0.5	0.5	0.05		ug/L
Copper	0.64	0.5	0.2		ug/L
Iron	131	20	5.0		ug/L
Lead	<0.3	0.3	0.02		ug/L
Magnesium	1.86	0.02	0.01		mg/L
Manganese	91.5	0.3	0.07		ug/L
Nickel	1.01	0.5	0.15		ug/L
Potassium	2.10	0.02	0.01		mg/L
Selenium	<1	1	0.2		ug/L
Silicon Dioxide	2.59	0.05	0.01		mg/L
Silver	<0.5	0.5	0.02		ug/L
Sodium	5.63	0.02	0.01		mg/L
Thallium	<0.5	0.5	0.005		ug/L
Vanadium	<0.5	0.5	0.3		ug/L
Zinc	7.57	1	0.3		ug/L
Hardness	17.7	1	1.0		mg/L
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	Jun 5 2013 5:35PM				

Total Metals by EPA 200.8

EPA 200.8

Batch: 13061002 Run: 1

Result Reporting MDL Qual Unit

Arkansas Department of Environmental Quality
5301 Northshore Drive
North Little Rock, AR 72118

Laboratory Contact: Jeff Ruehr
Ruehr@adeq.state.ar.us
501-682-0955

		<u>Limit</u>		
Aluminum	544	20	20	ug/L
Antimony	<10	10	5	ug/L
Arsenic	2.35	1	0.5	ug/L
Barium	22.8	10	2.0	ug/L
Beryllium	<0.5	0.5	0.1	ug/L
Boron	<25	25	5.0	ug/L
Cadmium	<1	1	0.3	ug/L
Calcium	4.24	0.04	0.04	mg/L
Chromium	<1	1	0.3	ug/L
Cobalt	<1	1	0.5	ug/L
Copper	1.08	1	0.5	ug/L
Iron	1430	20	10.0	ug/L
Lead	<1	1	0.1	ug/L
Magnesium	2.08	0.1	0.1	mg/L
Manganese	520	1	0.2	ug/L
Nickel	<2.5	2.5	0.5	ug/L
Potassium	2.21	1	0.05	mg/L
Selenium	<2	2	0.5	ug/L
Silver	<5	5	1.0	ug/L
Sodium	5.84	0.04	0.02	mg/L
Thallium	<2.5	2.5	0.05	ug/L
Vanadium	<2.5	2.5	1.0	ug/L
Zinc	8.23	3	2.0	ug/L
Dilution Factor	1			
Analyzed By	Robert Graddy			
Analysis Date/Time	Jun 6 2013 1:08PM			
Prep By				
Prep Date/Time				

Arkansas Department of Environmental Quality
5301 Northshore Drive
North Little Rock, AR 72118

Laboratory Contact: Jeff Ruehr
Ruehr@adeq.state.ar.us
501-682-0955

Client: Special Samples

Client Sample ID: WS-007

Lab ID: 2013-1934

Collection Date: 5/29/2013

Matrix: Water

Analyses

Dissolved Metals by EPA 200.8

EPA 200.8

Batch: 13060601 Run: 1

	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
Aluminum	2000	20	20		ug/L
Antimony	<5	5	1.0		ug/L
Arsenic	2.56	0.5	0.2		ug/L
Barium	31.6	2	0.4		ug/L
Beryllium	0.17	0.1	0.04		ug/L
Boron	17.4	5	2.0		ug/L
Cadmium	<0.1	0.1	0.05		ug/L
Calcium	3.06	0.03	0.03		mg/L
Chromium	1.76	0.5	0.05		ug/L
Cobalt	1.82	0.5	0.05		ug/L
Copper	2.42	0.5	0.2		ug/L
Iron	1960	20	5.0		ug/L
Lead	2.56	0.3	0.02		ug/L
Magnesium	1.44	0.02	0.01		mg/L
Manganese	360	0.3	0.07		ug/L
Nickel	3.31	0.5	0.15		ug/L
Potassium	3.52	0.02	0.01		mg/L
Selenium	<1	1	0.2		ug/L
Silicon Dioxide	10.8	0.05	0.01		mg/L
Silver	<0.5	0.5	0.02		ug/L
Sodium	4.58	0.02	0.01		mg/L
Thallium	<0.5	0.5	0.005		ug/L
Vanadium	3.26	0.5	0.3		ug/L
Zinc	10.4	1	0.3		ug/L
Hardness	13.6	1	1.0		mg/L
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	Jun 5 2013 5:42PM				

Total Metals by EPA 200.8

EPA 200.8

Batch: 13061002 Run: 2

Result Reporting MDL Qual Unit

Arkansas Department of Environmental Quality
5301 Northshore Drive
North Little Rock, AR 72118

Laboratory Contact: Jeff Ruehr
Ruehr@adeq.state.ar.us
501-682-0955

		<u>Limit</u>		
Aluminum	13300	400	20	ug/L
Iron	16800	400	10.0	ug/L
Dilution Factor	20			
Analyzed By	Robert Graddy			
Analysis Date/Time	Jun 6 2013 1:14PM			
Prep By				
Prep Date/Time				

Total Metals by EPA 200.8

EPA 200.8

Batch: 13061002 Run: 1

	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
Antimony	<10	10	5		ug/L
Arsenic	5.64	1	0.5		ug/L
Barium	134	10	2.0		ug/L
Beryllium	1.13	0.5	0.1		ug/L
Boron	<25	25	5.0		ug/L
Cadmium	<1	1	0.3		ug/L
Calcium	4.56	0.04	0.04		mg/L
Chromium	10.4	1	0.3		ug/L
Cobalt	8.12	1	0.5		ug/L
Copper	6.79	1	0.5		ug/L
Lead	21.0	1	0.1		ug/L
Magnesium	3.15	0.1	0.1		mg/L
Manganese	684	1	0.2		ug/L
Nickel	11.8	2.5	0.5		ug/L
Potassium	3.86	1	0.05		mg/L
Selenium	<2	2	0.5		ug/L
Silver	<5	5	1.0		ug/L
Sodium	4.97	0.04	0.02		mg/L
Thallium	<2.5	2.5	0.05		ug/L
Vanadium	15.7	2.5	1.0		ug/L
Zinc	41.1	3	2.0		ug/L
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	Jun 6 2013 5:03PM				
Prep By					
Prep Date/Time					

Arkansas Department of Environmental Quality
5301 Northshore Drive
North Little Rock, AR 72118

Laboratory Contact: Jeff Ruehr
Ruehr@adeq.state.ar.us
501-682-0955

Client: Special Samples

Client Sample ID: WS-008

Lab ID: 2013-1935

Collection Date: 5/29/2013

Matrix: Water

Analyses

Dissolved Metals by EPA 200.8

EPA 200.8

Batch: 13060601 Run: 1

	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
Aluminum	<20	20	20		ug/L
Antimony	<5	5	1.0		ug/L
Arsenic	0.76	0.5	0.2		ug/L
Barium	51.7	2	0.4		ug/L
Beryllium	<0.1	0.1	0.04		ug/L
Boron	37.8	5	2.0		ug/L
Cadmium	<0.1	0.1	0.05		ug/L
Calcium	18.0	0.03	0.03		mg/L
Chromium	<0.5	0.5	0.05		ug/L
Cobalt	0.56	0.5	0.05		ug/L
Copper	1.45	0.5	0.2		ug/L
Iron	22.0	20	5.0		ug/L
Lead	<0.3	0.3	0.02		ug/L
Magnesium	9.26	0.02	0.01		mg/L
Manganese	289	0.3	0.07		ug/L
Nickel	3.09	0.5	0.15		ug/L
Potassium	3.18	0.02	0.01		mg/L
Selenium	<1	1	0.2		ug/L
Silicon Dioxide	5.05	0.05	0.01		mg/L
Silver	<0.5	0.5	0.02		ug/L
Sodium	18.6	0.02	0.01		mg/L
Thallium	<0.5	0.5	0.005		ug/L
Vanadium	<0.5	0.5	0.3		ug/L
Zinc	5.61	1	0.3		ug/L
Hardness	83.0	1	1.0		mg/L
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	Jun 5 2013 5:48PM				

Total Metals by EPA 200.8

EPA 200.8

Batch: 13061002 Run: 1

Result Reporting MDL Qual Unit

Arkansas Department of Environmental Quality
5301 Northshore Drive
North Little Rock, AR 72118

Laboratory Contact: Jeff Ruehr
Ruehr@adeq.state.ar.us
501-682-0955

		<u>Limit</u>		
Aluminum	989	20	20	ug/L
Antimony	<10	10	5	ug/L
Arsenic	1.04	1	0.5	ug/L
Barium	58.0	10	2.0	ug/L
Beryllium	<0.5	0.5	0.1	ug/L
Boron	38.3	25	5.0	ug/L
Cadmium	<1	1	0.3	ug/L
Calcium	18.6	0.04	0.04	mg/L
Chromium	1.12	1	0.3	ug/L
Cobalt	<1	1	0.5	ug/L
Copper	2.14	1	0.5	ug/L
Iron	806	20	10.0	ug/L
Lead	<1	1	0.1	ug/L
Magnesium	9.95	0.1	0.1	mg/L
Manganese	348	1	0.2	ug/L
Nickel	4.03	2.5	0.5	ug/L
Potassium	3.44	1	0.05	mg/L
Selenium	<2	2	0.5	ug/L
Silver	<5	5	1.0	ug/L
Sodium	20	0.04	0.02	mg/L
Thallium	<2.5	2.5	0.05	ug/L
Vanadium	<2.5	2.5	1.0	ug/L
Zinc	13.4	3	2.0	ug/L
Dilution Factor	1			
Analyzed By	Robert Graddy			
Analysis Date/Time	Jun 6 2013 1:21PM			
Prep By				
Prep Date/Time				

Arkansas Department of Environmental Quality
5301 Northshore Drive
North Little Rock, AR 72118

Laboratory Contact: Jeff Ruehr
Ruehr@adeq.state.ar.us
501-682-0955

Client: Special Samples

Client Sample ID: WS-019

Lab ID: 2013-1936

Collection Date: 5/29/2013

Matrix: Water

Analyses

Dissolved Metals by EPA 200.8

EPA 200.8

Batch: 13060601 Run: 1

	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
Aluminum	918	20	20		ug/L
Antimony	<5	5	1.0		ug/L
Arsenic	3.10	0.5	0.2		ug/L
Barium	25.2	2	0.4		ug/L
Beryllium	<0.1	0.1	0.04		ug/L
Boron	19.0	5	2.0		ug/L
Cadmium	<0.1	0.1	0.05		ug/L
Calcium	2.29	0.03	0.03		mg/L
Chromium	1.04	0.5	0.05		ug/L
Cobalt	2.50	0.5	0.05		ug/L
Copper	2.52	0.5	0.2		ug/L
Iron	974	20	5.0		ug/L
Lead	1.57	0.3	0.02		ug/L
Magnesium	1.08	0.02	0.01		mg/L
Manganese	539	0.3	0.07		ug/L
Nickel	2.81	0.5	0.15		ug/L
Potassium	3.29	0.02	0.01		mg/L
Selenium	<1	1	0.2		ug/L
Silicon Dioxide	5.10	0.05	0.01		mg/L
Silver	<0.5	0.5	0.02		ug/L
Sodium	4.58	0.02	0.01		mg/L
Thallium	<0.5	0.5	0.005		ug/L
Vanadium	2.14	0.5	0.3		ug/L
Zinc	12.9	1	0.3		ug/L
Hardness	10.1	1	1.0		mg/L
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	Jun 5 2013 5:55PM				

Total Metals by EPA 200.8

EPA 200.8

Batch: 13061002 Run: 2

Result Reporting MDL Qual Unit

Arkansas Department of Environmental Quality
5301 Northshore Drive
North Little Rock, AR 72118

Laboratory Contact: Jeff Ruehr
Ruehr@adeq.state.ar.us
501-682-0955

		<u>Limit</u>		
Aluminum	6210	2000	20	ug/L
Iron	14000	2000	10.0	ug/L
Manganese	4180	100	0.2	ug/L
Dilution Factor	100			
Analyzed By	Robert Graddy			
Analysis Date/Time	Jun 6 2013 1:27PM			
Prep By				
Prep Date/Time				

Total Metals by EPA 200.8

EPA 200.8

Batch: 13061002 Run: 1

	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
Antimony	<10	10	5		ug/L
Arsenic	8.81	1	0.5		ug/L
Barium	203	10	2.0		ug/L
Beryllium	0.82	0.5	0.1		ug/L
Boron	<25	25	5.0		ug/L
Cadmium	<1	1	0.3		ug/L
Calcium	7.11	0.04	0.04		mg/L
Chromium	7.45	1	0.3		ug/L
Cobalt	22.3	1	0.5		ug/L
Copper	12.7	1	0.5		ug/L
Lead	22.2	1	0.1		ug/L
Magnesium	3.95	0.1	0.1		mg/L
Nickel	11.5	2.5	0.5		ug/L
Potassium	8.99	1	0.05		mg/L
Selenium	<2	2	0.5		ug/L
Silver	<5	5	1.0		ug/L
Sodium	5.34	0.04	0.02		mg/L
Thallium	<2.5	2.5	0.05		ug/L
Vanadium	17.5	2.5	1.0		ug/L
Zinc	176	3	2.0		ug/L
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	Jun 6 2013 5:09PM				
Prep By					
Prep Date/Time					

Arkansas Department of Environmental Quality
5301 Northshore Drive
North Little Rock, AR 72118

Laboratory Contact: Jeff Ruehr
Ruehr@adeq.state.ar.us
501-682-0955

Client: Special Samples

Client Sample ID: Metals Field Blank

Lab ID: 2013-1937

Collection Date: 5/29/2013

Matrix: Water

Analyses

Dissolved Metals by EPA 200.8

EPA 200.8

Batch: 13060601 Run: 1

	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
Aluminum	<20	20	20		ug/L
Antimony	<5	5	1.0		ug/L
Arsenic	<0.5	0.5	0.2		ug/L
Barium	<2	2	0.4		ug/L
Beryllium	<0.1	0.1	0.04		ug/L
Boron	<5	5	2.0		ug/L
Cadmium	<0.1	0.1	0.05		ug/L
Calcium	<0.03	0.03	0.03		mg/L
Chromium	<0.5	0.5	0.05		ug/L
Cobalt	<0.5	0.5	0.05		ug/L
Copper	<0.5	0.5	0.2		ug/L
Iron	<20	20	5.0		ug/L
Lead	<0.3	0.3	0.02		ug/L
Magnesium	<0.02	0.02	0.01		mg/L
Manganese	0.37	0.3	0.07		ug/L
Nickel	<0.5	0.5	0.15		ug/L
Potassium	<0.02	0.02	0.01		mg/L
Selenium	<1	1	0.2		ug/L
Silicon Dioxide	<0.05	0.05	0.01		mg/L
Silver	<0.5	0.5	0.02		ug/L
Sodium	<0.02	0.02	0.01		mg/L
Thallium	<0.5	0.5	0.005		ug/L
Vanadium	<0.5	0.5	0.3		ug/L
Zinc	<1	1	0.3		ug/L
Hardness	<1	1	1.0		mg/L
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	Jun 5 2013 6:01PM				

Arkansas Department of Environmental Quality
5301 Northshore Drive
North Little Rock, AR 72118

Laboratory Contact: Jeff Ruehr
Ruehr@adeq.state.ar.us
501-682-0955

Client: Special Samples

Client Sample ID: WS-BKG-002

Lab ID: 2013-1928

Collection Date: 5/29/2013

Matrix: Water

Analyses

<i>Turbidity</i>		<i>EPA 180.1</i>		<i>Batch: 13061107</i>		<i>Run: 1</i>	
		<u>Result</u>		<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
Turbidity		59.8		0.02	0.02		NTU
Dilution Factor		1					
Analyzed By		Penny Semberski					
Analysis Date/Time		5/30/2013 10:28					

Arkansas Department of Environmental Quality
5301 Northshore Drive
North Little Rock, AR 72118

Laboratory Contact: Jeff Ruehr
Ruehr@adeq.state.ar.us
501-682-0955

Client: Special Samples

Client Sample ID: WS-001

Lab ID: 2013-1929

Collection Date: 5/29/2013

Matrix: Water

Analyses

Turbidity

EPA 180.1

Batch: 13061107 Run: 1

	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
Turbidity	595	0.06	0.02		NTU
Dilution Factor	3				
Analyzed By	Penny Semberski				
Analysis Date/Time	5/30/2013 10:32				

Arkansas Department of Environmental Quality
5301 Northshore Drive
North Little Rock, AR 72118

Laboratory Contact: Jeff Ruehr
Ruehr@adeq.state.ar.us
501-682-0955

Client: Special Samples

Client Sample ID: WS-002

Lab ID: 2013-1930

Collection Date: 5/29/2013

Matrix: Water

Analyses

Turbidity

EPA 180.1

Batch: 13061107 Run: 1

	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
Turbidity	9.13	0.02	0.02		NTU
Dilution Factor	1				
Analyzed By	Penny Semberski				
Analysis Date/Time	5/30/2013 10:35				

Arkansas Department of Environmental Quality
5301 Northshore Drive
North Little Rock, AR 72118

Laboratory Contact: Jeff Ruehr
Ruehr@adeq.state.ar.us
501-682-0955

Client: Special Samples

Client Sample ID: WS-003

Lab ID: 2013-1931

Collection Date: 5/29/2013

Matrix: Water

Analyses

Turbidity

EPA 180.1

Batch: 13061107 Run: 1

	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
Turbidity	21.2	0.02	0.02		NTU
Dilution Factor	1				
Analyzed By	Penny Semberski				
Analysis Date/Time	5/30/2013 10:37				

Arkansas Department of Environmental Quality
5301 Northshore Drive
North Little Rock, AR 72118

Laboratory Contact: Jeff Ruehr
Ruehr@adeq.state.ar.us
501-682-0955

Client: Special Samples

Client Sample ID: WS-004

Lab ID: 2013-1932

Collection Date: 5/29/2013

Matrix: Water

Analyses

Turbidity

EPA 180.1

Batch: 13061107 Run: 1

	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
Turbidity	712	0.06	0.02		NTU
Dilution Factor	3				
Analyzed By	Penny Semberski				
Analysis Date/Time	5/30/2013 10:42				

Arkansas Department of Environmental Quality
5301 Northshore Drive
North Little Rock, AR 72118

Laboratory Contact: Jeff Ruehr
Ruehr@adeq.state.ar.us
501-682-0955

Client: Special Samples

Client Sample ID: WS-006

Lab ID: 2013-1933

Collection Date: 5/29/2013

Matrix: Water

Analyses

Turbidity

EPA 180.1

Batch: 13061107 Run: 1

	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
Turbidity	44.4	0.02	0.02		NTU
Dilution Factor	1				
Analyzed By	Penny Semberski				
Analysis Date/Time	5/30/2013 10:45				

Arkansas Department of Environmental Quality
5301 Northshore Drive
North Little Rock, AR 72118

Laboratory Contact: Jeff Ruehr
Ruehr@adeq.state.ar.us
501-682-0955

Client: Special Samples

Client Sample ID: WS-007

Lab ID: 2013-1934

Collection Date: 5/29/2013

Matrix: Water

Analyses

Turbidity

EPA 180.1

Batch: 13061107 Run: 1

	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
Turbidity	772	0.06	0.02		NTU
Dilution Factor	3				
Analyzed By	Penny Semberski				
Analysis Date/Time	5/30/2013 10:47				

Arkansas Department of Environmental Quality
5301 Northshore Drive
North Little Rock, AR 72118

Laboratory Contact: Jeff Ruehr
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Client: Special Samples

Client Sample ID: WS-008

Lab ID: 2013-1935

Collection Date: 5/29/2013

Matrix: Water

Analyses

Turbidity

EPA 180.1

Batch: 13061107 Run: 1

	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
Turbidity	32.6	0.02	0.02		NTU
Dilution Factor	1				
Analyzed By	Penny Semberski				
Analysis Date/Time	5/30/2013 10:49				

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Client: Special Samples

Client Sample ID: WS-019

Lab ID: 2013-1936

Collection Date: 5/29/2013

Matrix: Water

Analyses

Turbidity

EPA 180.1

Batch: 13061107 Run: 1

	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
Turbidity	3040	0.2	0.02		NTU
Dilution Factor	10				
Analyzed By	Penny Semberski				
Analysis Date/Time	5/30/2013 10:56				

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Analytical Quality Control Results Report

Batch: 13061107		Turbidity - water			
WS-003		LIMS ID: 2013-1931			
Turbidity - water DUP		Run: 1			
Parameter	Result	DL	RL	Accuracy Control	Precision Control
Turbidity	20.8 NTU	0.02	0.02		
Turbidity (RPD)	1.8 %				0 - 20
Dilution Factor	1				
Analyzed By	Penny Semberski				
Analysis Date/Time	5/30/2013 10:38				

Analytical Quality Control Results Report

Batch: 13060401	Semi-VOA water (Prep)
WS-003	LIMS ID: 2013-1931

Semi Volatiles - water DUP

Run: 1

Parameter	Result	DL	RL	Accuracy Control	Precision Control
Initial Volume	500 mL				
Final Volume	1 mL				
Prep By	Ed Harris				
Prep Date/Time	5/30/2013 13:00				
2-Fluorophenol (% Recovery)	26.7 %			40 - 110	
Nitrobenzene-d5 (% Recovery)	56.6 %			40 - 125	
2-Fluorobiphenyl (% Recovery)	58.9 %			40 - 110	
2,4,6-Tribromophenol (% Recovery)	64.5 %			40 - 110	
Terphenyl-d14 (% Recovery)	64.5 %			40 - 125	
Methyl Methanesulfonate	<0.2 ug/L	0.2	0.2		
Methyl Methanesulfonate (RPD)	0 %				0 - 40
Ethyl methanesulfonate (RPD)	0 %				0 - 40
Ethyl methanesulfonate	<0.2 ug/L	0.2	0.2		
Phenol	<0.2 ug/L	0.2	0.2		
Phenol (RPD)	36.0 %				0 - 40
Aniline (RPD)	0 %				0 - 40
Aniline	<0.2 ug/L	0.2	0.2		
Bis(2-chloroethyl)ether	<0.24 ug/L	0.2	0.24		
Bis(2-chloroethyl)ether (RPD)	0 %				0 - 40
2-Chlorophenol (RPD)	0 %				0 - 40
2-Chlorophenol	<0.2 ug/L	0.2	0.2		
1,3-Dichlorobenzene	<0.12 ug/L	0.12	0.12		
1,3-Dichlorobenzene (RPD)	0 %				0 - 40
1,4-Dichlorobenzene (RPD)	0 %				0 - 40
1,4-Dichlorobenzene	<0.12 ug/L	0.12	0.12		
Benzyl alcohol	0.190 ug/L	0.16	0.16		
Benzyl alcohol (RPD)	29.8 %				0 - 40
1,2-Dichlorobenzene (RPD)	0 %				0 - 40
1,2-Dichlorobenzene	<0.12 ug/L	0.12	0.12		
2-Methylphenol	<0.1 ug/L	0.1	0.1		
2-Methylphenol (RPD)	0 %				0 - 40
Acetophenone (RPD)	6.2 %				0 - 40
Acetophenone	<0.1 ug/L	0.1	0.1		

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4-Methylphenol	<0.1 ug/L	0.1	0.1	
4-Methylphenol (RPD)	0 %			0 - 40
N-Nitrosodi-n-propylamine (RPD)	0 %			0 - 40
N-Nitrosodi-n-propylamine	<0.2 ug/L	0.2	0.2	
Hexachloroethane	<0.2 ug/L	0.2	0.2	
Hexachloroethane (RPD)	0 %			0 - 40
Nitrobenzene (RPD)	0 %			0 - 40
Nitrobenzene	<0.2 ug/L	0.2	0.2	
N-Nitrosopiperidine	<0.2 ug/L	0.2	0.2	
N-Nitrosopiperidine (RPD)	0 %			0 - 40
Isophorone (RPD)	0 %			0 - 40
Isophorone	<0.1 ug/L	0.1	0.1	
2-Nitrophenol	<0.3 ug/L	0.3	0.3	
2-Nitrophenol (RPD)	0 %			0 - 40
2,4-Dimethylphenol (RPD)	0 %			0 - 40
2,4-Dimethylphenol	<0.1 ug/L	0.1	0.1	
Bis(2-chloroethoxy)methane	<0.2 ug/L	0.2	0.2	
Bis(2-chloroethoxy)methane (RPD)	0 %			0 - 40
2,4-Dichlorophenol (RPD)	0 %			0 - 40
2,4-Dichlorophenol	<0.2 ug/L	0.2	0.2	
1,2,4-Trichlorobenzene	<0.12 ug/L	0.12	0.12	
1,2,4-Trichlorobenzene (RPD)	0 %			0 - 40
Naphthalene (RPD)	0 %			0 - 40
Naphthalene	<0.08 ug/L	0.08	0.08	
4-Chloroaniline	<0.1 ug/L	0.1	0.1	
4-Chloroaniline (RPD)	0 %			0 - 40
2,6-Dichlorophenol (RPD)	0 %			0 - 40
2,6-Dichlorophenol	<0.2 ug/L	0.2	0.2	
Hexachlorobutadiene	<0.2 ug/L	0.2	0.2	
Hexachlorobutadiene (RPD)	0 %			0 - 40
N-Nitrosodibutylamine	<0.24 ug/L	0.2	0.24	
N-Nitrosodibutylamine (RPD)	0 %			0 - 40
4-Chloro-3-methylphenol (RPD)	0 %			0 - 40
4-Chloro-3-methylphenol	<0.16 ug/L	0.16	0.16	
2-Methylnaphthalene	<0.1 ug/L	0.1	0.1	
2-Methylnaphthalene (RPD)	0 %			0 - 40
1,2,4,5-Tetrachlorobenzene (RPD)	0 %			0 - 40
1,2,4,5-Tetrachlorobenzene	<0.1 ug/L	0.1	0.1	
Hexachlorocyclopentadiene	<0.16 ug/L	0.16	0.16	
Hexachlorocyclopentadiene (RPD)	0 %			0 - 40

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2,4,6-Trichlorophenol (RPD)	0 %			0 - 40
2,4,6-Trichlorophenol	<0.4 ug/L	0.2	0.4	
2,4,5-Trichlorophenol	<0.2 ug/L	0.2	0.2	
2,4,5-Trichlorophenol (RPD)	0 %			0 - 40
2-Chloronaphthalene (RPD)	0 %			0 - 40
2-Chloronaphthalene	<0.1 ug/L	0.1	0.1	
1-Chloronaphthalene	<0.1 ug/L	0.1	0.1	
1-Chloronaphthalene (RPD)	0 %			0 - 40
2-Nitroaniline (RPD)	0 %			0 - 40
2-Nitroaniline	<0.2 ug/L	0.2	0.2	
Dimethyl phthalate	<0.2 ug/L	0.2	0.2	
Dimethyl phthalate (RPD)	0 %			0 - 40
2,6-Dinitrotoluene (RPD)	0 %			0 - 40
2,6-Dinitrotoluene	<0.2 ug/L	0.2	0.2	
Acenaphthylene	<0.08 ug/L	0.08	0.08	
Acenaphthylene (RPD)	0 %			0 - 40
3-Nitroaniline (RPD)	200 %			0 - 40
3-Nitroaniline	<0.2 ug/L	0.2	0.2	
Acenaphthene	<0.1 ug/L	0.1	0.1	
Acenaphthene (RPD)	0 %			0 - 40
2,4-Dinitrophenol (RPD)	0 %			0 - 40
2,4-Dinitrophenol	<4 ug/L	4	4	
Pentachlorobenzene	<0.12 ug/L	0.12	0.12	
Pentachlorobenzene (RPD)	0 %			0 - 40
4-Nitrophenol (RPD)	0 %			0 - 40
4-Nitrophenol	<2 ug/L	2	2	
Dibenzofuran	<0.1 ug/L	0.1	0.1	
Dibenzofuran (RPD)	0 %			0 - 40
2,4-Dinitrotoluene (RPD)	0 %			0 - 40
2,4-Dinitrotoluene	<0.2 ug/L	0.2	0.2	
2,3,4,6-Tetrachlorophenol	<0.6 ug/L	0.6	0.6	
2,3,4,6-Tetrachlorophenol (RPD)	0 %			0 - 40
Diethyl phthalate (RPD)	0 %			0 - 40
Diethyl phthalate	<0.4 ug/L	0.2	0.4	
Fluorene	<0.1 ug/L	0.1	0.1	
Fluorene (RPD)	0 %			0 - 40
4-Chlorophenyl phenyl ether (RPD)	0 %			0 - 40
4-Chlorophenyl phenyl ether	<0.1 ug/L	0.1	0.1	
4-Nitroaniline	<0.3 ug/L	0.2	0.3	
4-Nitroaniline (RPD)	0 %			0 - 40

4,6-Dinitro-2-methylphenol (RPD)	0 %			0 - 40
4,6-Dinitro-2-methylphenol	<6 ug/L	6	6	
Diphenylamine	<0.1 ug/L	0.1	0.1	
Diphenylamine (RPD)	0 %			0 - 40
Azobenzene (RPD)	0 %			0 - 40
Azobenzene	<0.08 ug/L	0.08	0.08	
4-Bromophenyl phenyl ether	<0.2 ug/L	0.2	0.2	
4-Bromophenyl phenyl ether (RPD)	0 %			0 - 40
Hexachlorobenzene (RPD)	0 %			0 - 40
Hexachlorobenzene	<0.16 ug/L	0.16	0.16	
Pentachlorophenol	<1 ug/L	1	1	
Pentachlorophenol (RPD)	0 %			0 - 40
Pentachloronitrobenzene (RPD)	0 %			0 - 40
Pentachloronitrobenzene	<0.2 ug/L	0.2	0.2	
Pronamide	<0.2 ug/L	0.2	0.2	
Pronamide (RPD)	0 %			0 - 40
Phenanthrene (RPD)	0 %			0 - 40
Phenanthrene	<0.08 ug/L	0.08	0.08	
Anthracene	<0.08 ug/L	0.08	0.08	
Anthracene (RPD)	0 %			0 - 40
Carbazole (RPD)	0 %			0 - 40
Carbazole	<0.1 ug/L	0.1	0.1	
Di-n-butyl phthalate	<0.2 ug/L	0.2	0.2	
Di-n-butyl phthalate (RPD)	0 %			0 - 40
Fluoranthene (RPD)	0 %			0 - 40
Fluoranthene	<0.08 ug/L	0.08	0.08	
Pyrene	<0.08 ug/L	0.08	0.08	
Pyrene (RPD)	0 %			0 - 40
Dimethylaminoazobenzene (RPD)	0 %			0 - 40
Dimethylaminoazobenzene	<0.2 ug/L	0.2	0.2	
Butyl benzyl phthalate	<0.4 ug/L	0.4	0.4	
Butyl benzyl phthalate (RPD)	0 %			0 - 40
Benzo (a) anthracene (RPD)	0 %			0 - 40
Benzo (a) anthracene	<0.1 ug/L	0.1	0.1	
Chrysene	<0.1 ug/L	0.1	0.1	
Chrysene (RPD)	0 %			0 - 40
Bis(2-ethylhexyl)phthalate (RPD)	200 %			0 - 40
Bis(2-ethylhexyl)phthalate	<0.3 ug/L	0.3	0.3	
Di-n-octyl phthalate	<0.3 ug/L	0.3	0.3	
Di-n-octyl phthalate (RPD)	200 %			0 - 40

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Benzo (b) fluoranthene (RPD)	0 %			0 - 40
Benzo (b) fluoranthene	<0.16 ug/L	0.16	0.16	
7,12-Dimethylbenz (a) anthracene	<0.2 ug/L	0.2	0.2	
7,12-Dimethylbenz (a) anthracene (RPD)	0 %			0 - 40
Benzo (k) fluoranthene (RPD)	0 %			0 - 40
Benzo (k) fluoranthene	<0.16 ug/L	0.16	0.16	
Benzo (a) pyrene	<0.16 ug/L	0.16	0.16	
Benzo (a) pyrene (RPD)	0 %			0 - 40
3-Methylcholanthrene (RPD)	0 %			0 - 40
3-Methylcholanthrene	<0.2 ug/L	0.2	0.2	
Indeno (1,2,3-cd) pyrene	<0.2 ug/L	0.2	0.2	
Indeno (1,2,3-cd) pyrene (RPD)	0 %			0 - 40
Dibenzo (a,h) anthracene (RPD)	0 %			0 - 40
Dibenzo (a,h) anthracene	<0.16 ug/L	0.16	0.16	
Benzo (g,h,i) perylene	<0.16 ug/L	0.16	0.16	
Benzo (g,h,i) perylene (RPD)	0 %			0 - 40
Dilution Factor	1			
Analyzed By	Ed Harris			
Analysis Date/Time	6/3/2013 7:12 PM			

WS-003	LIMS ID: 2013-1931
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Semi Volatiles - water MS

Run: 1

Parameter	Result	DL	RL	Accuracy Control	Precision Control
Initial Volume	500 mL				
Final Volume	1 mL				
Prep By	Ed Harris				
Prep Date/Time	5/30/2013 13:00				
2-Fluorophenol (% Recovery)	24.8 %			40 - 110	
Nitrobenzene-d5 (% Recovery)	56.3 %			40 - 125	
2-Fluorobiphenyl (% Recovery)	52.7 %			40 - 125	
2,4,6-Tribromophenol (% Recovery)	60.3 %			40 - 125	
Terphenyl-d14 (% Recovery)	60.7 %			40 - 125	
Phenol (% Recovery)	18.1 %			25 - 125	
2-Chlorophenol (% Recovery)	33.3 %			25 - 125	
1,4-Dichlorobenzene (% Recovery)	55.1 %			25 - 125	
N-Nitrosodi-n-propylamine (% Recovery)	68.8 %			25 - 125	
1,2,4-Trichlorobenzene (% Recovery)	59.4 %			25 - 125	
4-Chloro-3-methylphenol (% Recovery)	36.9 %			25 - 125	
Acenaphthene (% Recovery)	62.2 %			25 - 125	

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4-Nitrophenol (% Recovery)	25.0 %	25 - 125
2,4-Dinitrotoluene (% Recovery)	60.4 %	25 - 125
Pentachlorophenol (% Recovery)	58.2 %	25 - 125
Pyrene (% Recovery)	65.1 %	25 - 125
Dilution Factor	1	
Analyzed By	Ed Harris	
Analysis Date/Time	6/3/2013 7:42 PM	

WS-003	LIMS ID: 2013-1931
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Semi Volatiles - water MSD

Run: 1

Parameter	Result	DL	RL	Accuracy Control	Precision Control
Initial Volume	500 mL				
Final Volume	1 mL				
Prep By	Ed Harris				
Prep Date/Time	5/30/2013 13:00				
2-Fluorophenol (% Recovery)	27.9 %			40 - 110	
Nitrobenzene-d5 (% Recovery)	59.3 %			40 - 125	
2-Fluorobiphenyl (% Recovery)	57.1 %			40 - 125	
2,4,6-Tribromophenol (% Recovery)	59.2 %			40 - 125	
Terphenyl-d14 (% Recovery)	59.1 %			40 - 125	
Phenol (% Recovery)	19.0 %			25 - 125	
Phenol (RPD)	4.7 %				0 - 40
2-Chlorophenol (% Recovery)	36.7 %			25 - 125	
2-Chlorophenol (RPD)	9.9 %				0 - 40
1,4-Dichlorobenzene (RPD)	7.6 %				0 - 40
1,4-Dichlorobenzene (% Recovery)	59.4 %			25 - 125	
N-Nitrosodi-n-propylamine (% Recovery)	70.5 %			25 - 125	
N-Nitrosodi-n-propylamine (RPD)	2.5 %				0 - 40
1,2,4-Trichlorobenzene (RPD)	4.1 %				0 - 40
1,2,4-Trichlorobenzene (% Recovery)	61.8 %			25 - 125	
4-Chloro-3-methylphenol (% Recovery)	35.5 %			25 - 125	
4-Chloro-3-methylphenol (RPD)	3.8 %				0 - 40
Acenaphthene (% Recovery)	63.7 %			25 - 125	
Acenaphthene (RPD)	2.4 %				0 - 40
4-Nitrophenol (% Recovery)	24.9 %			25 - 125	
4-Nitrophenol (RPD)	0.3 %				0 - 40
2,4-Dinitrotoluene (% Recovery)	65.2 %			25 - 125	
2,4-Dinitrotoluene (RPD)	7.7 %				0 - 40
Pentachlorophenol (% Recovery)	56.4 %			25 - 125	

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Pentachlorophenol (RPD)	3.1 %	0 - 40
Pyrene (% Recovery)	63.7 %	25 - 125
Pyrene (RPD)	2.1 %	0 - 40
Dilution Factor	1	
Analyzed By	Ed Harris	
Analysis Date/Time	6/3/2013 8:12 PM	

MB	LIMS ID: 13060401-MB-01
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Semi Volatiles - water MB

Run: 1

Parameter	Result	DL	RL	Accuracy Control	Precision Control
Initial Volume	500 mL				
Final Volume	1 mL				
Prep By	Ed Harris				
Prep Date/Time	5/30/2013 13:00				
2-Fluorophenol (% Recovery)	32.7 %			40 - 110	
Nitrobenzene-d5 (% Recovery)	66.7 %			40 - 125	
2-Fluorobiphenyl (% Recovery)	58.4 %			40 - 125	
2,4,6-Tribromophenol (% Recovery)	59.2 %			40 - 125	
Terphenyl-d14 (% Recovery)	63.3 %			40 - 125	
Methyl Methanesulfonate	<0.2 ug/L	0.2	0.2		
Ethyl methanesulfonate	<0.2 ug/L	0.2	0.2		
Phenol	<0.2 ug/L	0.2	0.2		
Aniline	<0.2 ug/L	0.2	0.2		
Bis(2-chloroethyl)ether	<0.2 ug/L	0.2	0.2		
2-Chlorophenol	<0.2 ug/L	0.2	0.2		
1,3-Dichlorobenzene	<0.12 ug/L	0.12	0.12		
1,4-Dichlorobenzene	<0.12 ug/L	0.12	0.12		
Benzyl alcohol	2.65 ug/L	0.16	0.16		
1,2-Dichlorobenzene	<0.12 ug/L	0.12	0.12		
2-Methylphenol	<0.1 ug/L	0.1	0.1		
Acetophenone	<0.1 ug/L	0.1	0.1		
4-Methylphenol	<0.1 ug/L	0.1	0.1		
N-Nitrosodi-n-propylamine	<0.2 ug/L	0.2	0.2		
Hexachloroethane	<0.2 ug/L	0.2	0.2		
Nitrobenzene	<0.2 ug/L	0.2	0.2		
N-Nitrosopiperidine	<0.2 ug/L	0.2	0.2		
Isophorone	<0.1 ug/L	0.1	0.1		
2-Nitrophenol	<0.3 ug/L	0.3	0.3		
2,4-Dimethylphenol	<0.1 ug/L	0.1	0.1		

Bis(2-chloroethoxy)methane	<0.2 ug/L	0.2	0.2
2,4-Dichlorophenol	<0.2 ug/L	0.2	0.2
1,2,4-Trichlorobenzene	<0.12 ug/L	0.12	0.12
Naphthalene	<0.08 ug/L	0.08	0.08
4-Chloroaniline	<0.1 ug/L	0.1	0.1
2,6-Dichlorophenol	<0.2 ug/L	0.2	0.2
Hexachlorobutadiene	<0.2 ug/L	0.2	0.2
N-Nitrosodibutylamine	<0.2 ug/L	0.2	0.2
4-Chloro-3-methylphenol	<0.16 ug/L	0.16	0.16
2-Methylnaphthalene	<0.12 ug/L	0.12	0.12
1,2,4,5-Tetrachlorobenzene	<0.1 ug/L	0.1	0.1
Hexachlorocyclopentadiene	<0.16 ug/L	0.16	0.16
2,4,6-Trichlorophenol	<0.2 ug/L	0.2	0.2
2,4,5-Trichlorophenol	<0.2 ug/L	0.2	0.2
2-Chloronaphthalene	<0.1 ug/L	0.1	0.1
1-Chloronaphthalene	<0.1 ug/L	0.1	0.1
2-Nitroaniline	<0.2 ug/L	0.2	0.2
Dimethyl phthalate	<0.2 ug/L	0.2	0.2
2,6-Dinitrotoluene	<0.2 ug/L	0.2	0.2
Acenaphthylene	<0.08 ug/L	0.08	0.08
3-Nitroaniline	<0.2 ug/L	0.2	0.2
Acenaphthene	<0.1 ug/L	0.1	0.1
2,4-Dinitrophenol	<4 ug/L	4	4
Pentachlorobenzene	<0.12 ug/L	0.12	0.12
4-Nitrophenol	<2 ug/L	2	2
Dibenzofuran	<0.1 ug/L	0.1	0.1
2,4-Dinitrotoluene	<0.2 ug/L	0.2	0.2
2,3,4,6-Tetrachlorophenol	<0.6 ug/L	0.6	0.6
Diethyl phthalate	<0.2 ug/L	0.2	0.2
Fluorene	<0.1 ug/L	0.1	0.1
4-Chlorophenyl phenyl ether	<0.1 ug/L	0.1	0.1
4-Nitroaniline	<0.2 ug/L	0.2	0.2
4,6-Dinitro-2-methylphenol	<6 ug/L	6	6
Diphenylamine	<0.1 ug/L	0.1	0.1
Azobenzene	<0.08 ug/L	0.08	0.08
4-Bromophenyl phenyl ether	<0.2 ug/L	0.2	0.2
Hexachlorobenzene	<0.16 ug/L	0.16	0.16
Pentachlorophenol	<1 ug/L	1	1
Pentachloronitrobenzene	<0.2 ug/L	0.2	0.2
Pronamide	<0.2 ug/L	0.2	0.2

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Phenanthrene	<0.08 ug/L	0.08	0.08
Anthracene	<0.08 ug/L	0.08	0.08
Carbazole	<0.1 ug/L	0.1	0.1
Di-n-butyl phthalate	0.523 ug/L	0.2	0.2
Fluoranthene	<0.08 ug/L	0.08	0.08
Pyrene	<0.08 ug/L	0.08	0.08
Dimethylaminoazobenzene	<0.2 ug/L	0.2	0.2
Butyl benzyl phthalate	<0.3 ug/L	0.3	0.3
Benzo (a) anthracene	<0.2 ug/L	0.2	0.2
Chrysene	<0.1 ug/L	0.1	0.1
Bis(2-ethylhexyl)phthalate	<0.3 ug/L	0.3	0.3
Di-n-octyl phthalate	<0.3 ug/L	0.3	0.3
Benzo (b) fluoranthene	<0.16 ug/L	0.16	0.16
7,12-Dimethylbenz (a) anthracene	<0.2 ug/L	0.2	0.2
Benzo (k) fluoranthene	<0.16 ug/L	0.16	0.16
Benzo (a) pyrene	<0.16 ug/L	0.16	0.16
3-Methylcholanthrene	<0.2 ug/L	0.2	0.2
Indeno (1,2,3-cd) pyrene	<0.2 ug/L	0.2	0.2
Dibenzo (a,h) anthracene	<0.16 ug/L	0.16	0.16
Benzo (g,h,i) perylene	<0.16 ug/L	0.16	0.16
Dilution Factor	1		
Analyzed By	Ed Harris		
Analysis Date/Time	6/3/2013 16:16		

LCS	LIMS ID: 13060401-LCS-01
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Semi Volatiles - water LCS

Run: 1

Parameter	Result	DL	RL	Accuracy Control	Precision Control
Initial Volume	500 mL				
Final Volume	1 mL				
Prep By	Ed Harris				
Prep Date/Time	5/30/2013 13:00				
2-Fluorophenol (% Recovery)	40.3 %			40 - 110	
Nitrobenzene-d5 (% Recovery)	76.6 %			50 - 125	
2-Fluorobiphenyl (% Recovery)	70.0 %			50 - 125	
2,4,6-Tribromophenol (% Recovery)	81.3 %			40 - 125	
Terphenyl-d14 (% Recovery)	74.5 %			50 - 125	
Methyl Methanesulfonate (% Recovery)	77.2 %			50 - 150	
Ethyl methanesulfonate (% Recovery)	65.8 %			50 - 150	
Phenol (% Recovery)	41.3 %			50 - 150	

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Aniline (% Recovery)	65.0 %	50 - 150
Bis(2-chloroethyl)ether (% Recovery)	88.6 %	50 - 150
2-Chlorophenol (% Recovery)	83.8 %	50 - 150
1,3-Dichlorobenzene (% Recovery)	56.2 %	50 - 150
1,4-Dichlorobenzene (% Recovery)	61.6 %	50 - 150
Benzyl alcohol (% Recovery)	140 %	50 - 150
1,2-Dichlorobenzene (% Recovery)	67.8 %	50 - 150
2-Methylphenol (% Recovery)	63.5 %	50 - 150
Acetophenone (% Recovery)	77.4 %	50 - 150
4-Methylphenol (% Recovery)	55.7 %	50 - 150
N-Nitrosodi-n-propylamine (% Recovery)	80.9 %	50 - 150
Hexachloroethane (% Recovery)	55.1 %	50 - 150
Nitrobenzene (% Recovery)	79.7 %	50 - 150
N-Nitrosopiperidine (% Recovery)	84.4 %	50 - 150
Isophorone (% Recovery)	79.5 %	50 - 150
2-Nitrophenol (% Recovery)	81.1 %	50 - 150
2,4-Dimethylphenol (% Recovery)	1.0 %	50 - 150
Bis(2-chloroethoxy)methane (% Recovery)	72.3 %	50 - 150
2,4-Dichlorophenol (% Recovery)	78.3 %	50 - 150
1,2,4-Trichlorobenzene (% Recovery)	62.0 %	50 - 150
Naphthalene (% Recovery)	69.9 %	50 - 150
4-Chloroaniline (% Recovery)	75.8 %	50 - 150
2,6-Dichlorophenol (% Recovery)	77.8 %	50 - 150
Hexachlorobutadiene (% Recovery)	50.8 %	50 - 150
N-Nitrosodibutylamine (% Recovery)	85.7 %	50 - 150
4-Chloro-3-methylphenol (% Recovery)	74.3 %	50 - 150
2-Methylnaphthalene (% Recovery)	70.1 %	50 - 150
1,2,4,5-Tetrachlorobenzene (% Recovery)	62.7 %	50 - 150
Hexachlorocyclopentadiene (% Recovery)	73.2 %	50 - 150
2,4,6-Trichlorophenol (% Recovery)	84.0 %	50 - 150
2,4,5-Trichlorophenol (% Recovery)	86.0 %	50 - 150
2-Chloronaphthalene (% Recovery)	69.3 %	50 - 150
1-Chloronaphthalene (% Recovery)	68.2 %	50 - 150
2-Nitroaniline (% Recovery)	70.0 %	50 - 150
Dimethyl phthalate (% Recovery)	73.7 %	50 - 150
2,6-Dinitrotoluene (% Recovery)	84.3 %	50 - 150
Acenaphthylene (% Recovery)	71.0 %	50 - 150
3-Nitroaniline (% Recovery)	74.0 %	50 - 150
Acenaphthene (% Recovery)	69.5 %	50 - 150
2,4-Dinitrophenol (% Recovery)	89.5 %	50 - 150

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Pentachlorobenzene (% Recovery)	68.6 %	50 - 150
4-Nitrophenol (% Recovery)	36.6 %	50 - 150
Dibenzofuran (% Recovery)	74.0 %	50 - 150
2,4-Dinitrotoluene (% Recovery)	81.3 %	50 - 150
2,3,4,6-Tetrachlorophenol (% Recovery)	81.6 %	50 - 150
Diethyl phthalate (% Recovery)	80.8 %	50 - 150
Fluorene (% Recovery)	79.5 %	50 - 150
4-Chlorophenyl phenyl ether (% Recovery)	72.5 %	50 - 150
4-Nitroaniline (% Recovery)	78.4 %	50 - 150
4,6-Dinitro-2-methylphenol (% Recovery)	89.0 %	50 - 150
Diphenylamine (% Recovery)	73.5 %	50 - 150
Azobenzene (% Recovery)	73.7 %	50 - 150
4-Bromophenyl phenyl ether (% Recovery)	67.4 %	50 - 150
Hexachlorobenzene (% Recovery)	72.2 %	50 - 150
Pentachlorophenol (% Recovery)	84.3 %	50 - 150
Pentachloronitrobenzene (% Recovery)	78.6 %	50 - 150
Pronamide (% Recovery)	82.8 %	50 - 150
Phenanthrene (% Recovery)	75.3 %	50 - 150
Anthracene (% Recovery)	70.6 %	50 - 150
Carbazole (% Recovery)	77.0 %	50 - 150
Di-n-butyl phthalate (% Recovery)	111 %	50 - 150
Fluoranthene (% Recovery)	71.7 %	50 - 150
Pyrene (% Recovery)	64.6 %	50 - 150
Dimethylaminoazobenzene (% Recovery)	69.5 %	50 - 150
Butyl benzyl phthalate (% Recovery)	74.4 %	50 - 150
Benzo (a) anthracene (% Recovery)	82.1 %	50 - 150
Chrysene (% Recovery)	82.3 %	50 - 150
Bis(2-ethylhexyl)phthalate (% Recovery)	75.6 %	50 - 150
Di-n-octyl phthalate (% Recovery)	76.7 %	50 - 150
Benzo (b) fluoranthene (% Recovery)	80.9 %	50 - 150
7,12-Dimethylbenz (a) anthracene (% Recovery)	79.3 %	50 - 150
Benzo (k) fluoranthene (% Recovery)	94.2 %	50 - 150
Benzo (a) pyrene (% Recovery)	87.6 %	50 - 150
3-Methylcholanthrene (% Recovery)	77.6 %	50 - 150
Indeno (1,2,3-cd) pyrene (% Recovery)	73.7 %	50 - 150
Dibenzo (a,h) anthracene (% Recovery)	82.6 %	50 - 150
Benzo (g,h,i) perylene (% Recovery)	86.9 %	50 - 150
Dilution Factor	1	
Analyzed By	Ed Harris	
Analysis Date/Time	6/3/2013 16:45	

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Analytical Quality Control Results Report

Batch: 13060316	VOA - water
WS-003	LIMS ID: 2013-1931

Volatiles - water DUP

Run: 1

Parameter	Result	DL	RL	Accuracy Control	Precision Control
Dibromofluoromethane (% Recovery)	100 %			70 - 130	
1,2-Dichloroethane-d4 (% Recovery)	92.6 %			70 - 130	
Toluene-d8 (% Recovery)	91.0 %			70 - 130	
4-Bromofluorobenzene (% Recovery)	101 %			70 - 130	
Dichlorodifluoromethane (RPD)	0 %				0 - 20
Dichlorodifluoromethane	<1.12 ug/L	1.12	1.12		
Chloromethane	<0.58 ug/L	0.58	0.58		
Chloromethane (RPD)	0 %				0 - 20
Vinyl chloride (RPD)	0 %				0 - 20
Vinyl chloride	<0.82 ug/L	0.82	0.82		
Bromomethane (RPD)	0 %				0 - 20
Bromomethane	<3.9 ug/L	3.9	3.9		
Chloroethane	<2.68 ug/L	2.68	2.68		
Chloroethane (RPD)	0 %				0 - 20
Trichlorofluoromethane	<0.51 ug/L	0.51	0.51		
Trichlorofluoromethane (RPD)	0 %				0 - 20
1,1-Dichloroethene (RPD)	0 %				0 - 20
1,1-Dichloroethene	<0.43 ug/L	0.43	0.43		
Acetone	<10.5 ug/L	10.5	10.5		
Acetone (RPD)	0 %				0 - 20
Methylene chloride (RPD)	2.7 %				0 - 20
Methylene chloride	<2.5 ug/L	2.5	2.5		
Methyl tert-butyl ether	<0.83 ug/L	0.83	0.83		
Methyl tert-butyl ether (RPD)	0 %				0 - 20
trans-1,2-Dichloroethene (RPD)	0 %				0 - 20
trans-1,2-Dichloroethene	<0.59 ug/L	0.59	0.59		
1,1-Dichloroethane	<0.42 ug/L	0.42	0.42		
1,1-Dichloroethane (RPD)	0 %				0 - 20
Methyl ethyl ketone (RPD)	0 %				0 - 20
Methyl ethyl ketone	<12.8 ug/L	12.8	12.8		
cis-1,2-Dichloroethene	<1.15 ug/L	1.15	1.15		
cis-1,2-Dichloroethene (RPD)	0 %				0 - 20
2,2-Dichloropropane (RPD)	0 %				0 - 20

2,2-Dichloropropane	<0.81 ug/L	0.81	0.81
Bromochloromethane	<0.66 ug/L	0.66	0.66
Bromochloromethane (RPD)	0 %		0 - 20
Chloroform (RPD)	0 %		0 - 20
Chloroform	<0.27 ug/L	0.27	0.27
1,1,1-Trichloroethane	<0.46 ug/L	0.46	0.46
1,1,1-Trichloroethane (RPD)	0 %		0 - 20
1,1-Dichloropropene (RPD)	0 %		0 - 20
1,1-Dichloropropene	<0.59 ug/L	0.59	0.59
Carbon tetrachloride	<0.6 ug/L	0.6	0.6
Carbon tetrachloride (RPD)	0 %		0 - 20
Benzene (RPD)	0 %		0 - 20
Benzene	<0.66 ug/L	0.66	0.66
1,2-Dichloroethane	<1.15 ug/L	1.15	1.15
1,2-Dichloroethane (RPD)	0 %		0 - 20
Trichloroethene	<0.6 ug/L	0.6	0.6
Trichloroethene (RPD)	0 %		0 - 20
1,2-Dichloropropane (RPD)	0 %		0 - 20
1,2-Dichloropropane	<0.98 ug/L	0.98	0.98
Dibromomethane	<1.78 ug/L	1.78	1.78
Dibromomethane (RPD)	0 %		0 - 20
Bromodichloromethane (RPD)	0 %		0 - 20
Bromodichloromethane	<0.65 ug/L	0.65	0.65
cis-1,3-Dichloropropene	<0.86 ug/L	0.86	0.86
cis-1,3-Dichloropropene (RPD)	0 %		0 - 20
Methyl isobutyl ketone (RPD)	0 %		0 - 20
Methyl isobutyl ketone	<8.1 ug/L	8.1	8.1
Toluene	0.571 ug/L	0.57	0.57
Toluene (RPD)	0.9 %		0 - 20
trans-1,3-Dichloropropene (RPD)	0 %		0 - 20
trans-1,3-Dichloropropene	<0.84 ug/L	0.84	0.84
1,1,2-Trichloroethane	<0.78 ug/L	0.78	0.78
1,1,2-Trichloroethane (RPD)	0 %		0 - 20
2-Hexanone (RPD)	0 %		0 - 20
2-Hexanone	<9.5 ug/L	9.5	9.5
Tetrachloroethene (RPD)	0 %		0 - 20
Tetrachloroethene	<0.96 ug/L	0.96	0.96
1,3-Dichloropropane (RPD)	0 %		0 - 20
1,3-Dichloropropane	<0.94 ug/L	0.94	0.94
Dibromochloromethane	<1.25 ug/L	1.25	1.25

Dibromochloromethane (RPD)	0 %			0 - 20
1,2-Dibromoethane (EDB) (RPD)	0 %			0 - 20
1,2-Dibromoethane (EDB)	<0.68 ug/L	0.68	0.68	
Chlorobenzene	<0.62 ug/L	0.62	0.62	
Chlorobenzene (RPD)	0 %			0 - 20
Ethylbenzene (RPD)	0 %			0 - 20
Ethylbenzene	<0.51 ug/L	0.51	0.51	
1,1,1,2-Tetrachloroethane	<0.57 ug/L	0.57	0.57	
1,1,1,2-Tetrachloroethane (RPD)	0 %			0 - 20
m,p-Xylene (RPD)	0 %			0 - 20
m,p-Xylene	<1.2 ug/L	1.2	1.2	
o-Xylene	<0.5 ug/L	0.5	0.5	
o-Xylene (RPD)	0 %			0 - 20
Styrene	<0.53 ug/L	0.53	0.53	
Styrene (RPD)	0 %			0 - 20
Bromoform (RPD)	0 %			0 - 20
Bromoform	<1.56 ug/L	1.56	1.56	
Isopropylbenzene	<0.59 ug/L	0.59	0.59	
Isopropylbenzene (RPD)	0 %			0 - 20
1,1,2,2-Tetrachloroethane (RPD)	0 %			0 - 20
1,1,2,2-Tetrachloroethane	<0.39 ug/L	0.39	0.39	
1,2,3-Trichloropropane (RPD)	0 %			0 - 20
1,2,3-Trichloropropane	<1.83 ug/L	1.83	1.83	
n-Propylbenzene	<0.49 ug/L	0.49	0.49	
n-Propylbenzene (RPD)	0 %			0 - 20
Bromobenzene (RPD)	0 %			0 - 20
Bromobenzene	<0.5 ug/L	0.5	0.5	
1,3,5-Trimethylbenzene	<0.3 ug/L	0.3	0.3	
1,3,5-Trimethylbenzene (RPD)	0 %			0 - 20
2-Chlorotoluene (RPD)	0 %			0 - 20
2-Chlorotoluene	<0.66 ug/L	0.66	0.66	
4-Chlorotoluene	<0.8 ug/L	0.8	0.8	
4-Chlorotoluene (RPD)	0 %			0 - 20
tert-Butylbenzene (RPD)	0 %			0 - 20
tert-Butylbenzene	<0.85 ug/L	0.85	0.85	
1,2,4-Trimethylbenzene (RPD)	0 %			0 - 20
1,2,4-Trimethylbenzene	<0.46 ug/L	0.46	0.46	
sec-Butylbenzene	<0.63 ug/L	0.63	0.63	
sec-Butylbenzene (RPD)	0 %			0 - 20
p-Isopropyltoluene (RPD)	0 %			0 - 20

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p-Isopropyltoluene	<0.59 ug/L	0.59	0.59
1,3-Dichlorobenzene	<0.7 ug/L	0.7	0.7
1,3-Dichlorobenzene (RPD)	0 %		0 - 20
1,4-Dichlorobenzene (RPD)	0 %		0 - 20
1,4-Dichlorobenzene	<0.53 ug/L	0.53	0.53
n-Butylbenzene	<0.72 ug/L	0.72	0.72
n-Butylbenzene (RPD)	0 %		0 - 20
1,2-Dichlorobenzene (RPD)	0 %		0 - 20
1,2-Dichlorobenzene	<0.7 ug/L	0.7	0.7
1,2-Dibromo-3-chloropropane	<0.86 ug/L	0.86	0.86
1,2-Dibromo-3-chloropropane (RPD)	0 %		0 - 20
1,2,4-Trichlorobenzene (RPD)	0 %		0 - 20
1,2,4-Trichlorobenzene	<1.14 ug/L	1.14	1.14
Naphthalene	<1.53 ug/L	1.53	1.53
Naphthalene (RPD)	0 %		0 - 20
1,2,3-Trichlorobenzene (RPD)	0 %		0 - 20
1,2,3-Trichlorobenzene	<1.3 ug/L	1.3	1.3
Dilution Factor	1		
Analyzed By	Jeff Ruehr		
Analysis Date/Time	5/30/2013 8:17 PM		

WS-003	LIMS ID: 2013-1931
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Volatiles - water MS

Run: 1

Parameter	Result	DL	RL	Accuracy Control	Precision Control
Dibromofluoromethane (% Recovery)	100 %			70 - 130	
1,2-Dichloroethane-d4 (% Recovery)	95.7 %			70 - 130	
Toluene-d8 (% Recovery)	98.4 %			70 - 130	
4-Bromofluorobenzene (% Recovery)	105 %			70 - 130	
1,1-Dichloroethene (% Recovery)	89.2 %			70 - 130	
Benzene (% Recovery)	87.8 %			70 - 130	
Trichloroethene (% Recovery)	83.9 %			70 - 130	
Toluene (% Recovery)	84.8 %			70 - 130	
Chlorobenzene (% Recovery)	89.2 %			70 - 130	
Dilution Factor	1				
Analyzed By	Jeff Ruehr				
Analysis Date/Time	5/30/2013 8:42 PM				

WS-003	LIMS ID: 2013-1931
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Volatiles - water MSD

Run: 1

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<i>Parameter</i>	<i>Result</i>	<i>DL</i>	<i>RL</i>	<i>Accuracy Control</i>	<i>Precision Control</i>
Dibromofluoromethane (% Recovery)	102 %			70 - 130	
1,2-Dichloroethane-d4 (% Recovery)	95.6 %			70 - 130	
Toluene-d8 (% Recovery)	94.9 %			70 - 130	
4-Bromofluorobenzene (% Recovery)	105 %			70 - 130	
1,1-Dichloroethene (RPD)	3.1 %				0 - 20
1,1-Dichloroethene (% Recovery)	92.0 %			70 - 130	
Benzene (RPD)	1.7 %				0 - 20
Benzene (% Recovery)	89.3 %			70 - 130	
Trichloroethene (% Recovery)	86.9 %			70 - 130	
Trichloroethene (RPD)	3.6 %				0 - 20
Toluene (% Recovery)	81.7 %			70 - 130	
Toluene (RPD)	3.6 %				0 - 20
Chlorobenzene (RPD)	3.1 %				0 - 20
Chlorobenzene (% Recovery)	86.5 %			70 - 130	
Dilution Factor	1				
Analyzed By	Jeff Ruehr				
Analysis Date/Time	5/30/2013 9:08 PM				

LCS	LIMS ID: 13060316-LCS-01
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Volatiles - water LCS

Run: 1

<i>Parameter</i>	<i>Result</i>	<i>DL</i>	<i>RL</i>	<i>Accuracy Control</i>	<i>Precision Control</i>
Dibromofluoromethane (% Recovery)	96.8 %			70 - 130	
1,2-Dichloroethane-d4 (% Recovery)	94.5 %			70 - 130	
Toluene-d8 (% Recovery)	97.3 %			70 - 130	
4-Bromofluorobenzene (% Recovery)	96.5 %			70 - 130	
Dichlorodifluoromethane (% Recovery)	113 %			60 - 130	
Chloromethane (% Recovery)	84.3 %			60 - 130	
Vinyl chloride (% Recovery)	92.5 %			60 - 130	
Bromomethane (% Recovery)	54.4 %			60 - 130	
Chloroethane (% Recovery)	82.1 %			60 - 130	
Trichlorofluoromethane (% Recovery)	91.8 %			60 - 130	
1,1-Dichloroethene (% Recovery)	94.2 %			60 - 130	
Acetone (% Recovery)	101 %			60 - 130	
Methylene chloride (% Recovery)	95.9 %			60 - 130	
Methyl tert-butyl ether (% Recovery)	92.6 %			60 - 130	
trans-1,2-Dichloroethene (% Recovery)	92.0 %			60 - 130	
1,1-Dichloroethane (% Recovery)	92.5 %			60 - 130	

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Methyl ethyl ketone (% Recovery)	100 %	60 - 130
cis-1,2-Dichloroethene (% Recovery)	94.4 %	60 - 130
2,2-Dichloropropane (% Recovery)	91.9 %	60 - 130
Bromochloromethane (% Recovery)	94.2 %	60 - 130
Chloroform (% Recovery)	93.8 %	60 - 130
1,1,1-Trichloroethane (% Recovery)	93.0 %	60 - 130
1,1-Dichloropropene (% Recovery)	89.5 %	60 - 130
Carbon tetrachloride (% Recovery)	93.5 %	60 - 130
Benzene (% Recovery)	92.8 %	60 - 130
1,2-Dichloroethane (% Recovery)	92.9 %	60 - 130
Trichloroethene (% Recovery)	90.4 %	60 - 130
1,2-Dichloropropane (% Recovery)	95.5 %	60 - 130
Dibromomethane (% Recovery)	94.9 %	60 - 130
Bromodichloromethane (% Recovery)	98.3 %	60 - 130
cis-1,3-Dichloropropene (% Recovery)	101 %	60 - 130
Methyl isobutyl ketone (% Recovery)	96.1 %	60 - 130
Toluene (% Recovery)	96.4 %	60 - 130
trans-1,3-Dichloropropene (% Recovery)	102 %	60 - 130
1,1,2-Trichloroethane (% Recovery)	94.8 %	60 - 130
2-Hexanone (% Recovery)	99.4 %	60 - 130
Tetrachloroethene (% Recovery)	92.8 %	60 - 130
1,3-Dichloropropane (% Recovery)	96.0 %	60 - 130
Dibromochloromethane (% Recovery)	97.9 %	60 - 130
1,2-Dibromoethane (EDB) (% Recovery)	96.9 %	60 - 130
Chlorobenzene (% Recovery)	98.2 %	60 - 130
Ethylbenzene (% Recovery)	92.2 %	60 - 130
1,1,1,2-Tetrachloroethane (% Recovery)	95.0 %	60 - 130
m,p-Xylene (% Recovery)	97.0 %	60 - 130
o-Xylene (% Recovery)	99.3 %	60 - 130
Styrene (% Recovery)	93.5 %	60 - 130
Bromoform (% Recovery)	97.3 %	60 - 130
Isopropylbenzene (% Recovery)	112 %	60 - 130
1,1,2,2-Tetrachloroethane (% Recovery)	100 %	60 - 130
1,2,3-Trichloropropane (% Recovery)	100 %	60 - 130
n-Propylbenzene (% Recovery)	93.1 %	60 - 130
Bromobenzene (% Recovery)	93.9 %	60 - 130
1,3,5-Trimethylbenzene (% Recovery)	97.9 %	60 - 130
2-Chlorotoluene (% Recovery)	93.4 %	60 - 130
4-Chlorotoluene (% Recovery)	96.1 %	60 - 130
tert-Butylbenzene (% Recovery)	88.5 %	60 - 130

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1,2,4-Trimethylbenzene (% Recovery)	94.0 %	60 - 130
sec-Butylbenzene (% Recovery)	98.2 %	60 - 130
p-Isopropyltoluene (% Recovery)	89.1 %	60 - 130
1,3-Dichlorobenzene (% Recovery)	95.1 %	60 - 130
1,4-Dichlorobenzene (% Recovery)	90.1 %	60 - 130
n-Butylbenzene (% Recovery)	90.2 %	60 - 130
1,2-Dichlorobenzene (% Recovery)	96.6 %	60 - 130
1,2-Dibromo-3-chloropropane (% Recovery)	99.9 %	60 - 130
1,2,4-Trichlorobenzene (% Recovery)	93.3 %	60 - 130
Naphthalene (% Recovery)	97.7 %	60 - 130
1,2,3-Trichlorobenzene (% Recovery)	95.1 %	60 - 130
Dilution Factor	1	
Analyzed By	Jeff Ruehr	
Analysis Date/Time	5/30/2013 8:32	

Analytical Quality Control Results Report

Batch: 13060303	Oil and Grease - water
WS-003	LIMS ID: 2013-1931

Oil and Grease - water DUP

Run: 1

Parameter	Result	DL	RL	Accuracy Control	Precision Control
Oil and Grease	<2.5 mg/L	2.5	2.5		
Oil and Grease (RPD)	0 %				0 - 20
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	05/13/2013 0800				

WS-003	LIMS ID: 2013-1931
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Oil and Grease - water MS

Run: 1

Parameter	Result	DL	RL	Accuracy Control	Precision Control
Oil and Grease (% Recovery)	97.5 %			70 - 130	
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	05/13/2013 0800				

WS-003	LIMS ID: 2013-1931
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Oil and Grease - water MSD

Run: 1

Parameter	Result	DL	RL	Accuracy Control	Precision Control
Oil and Grease (% Recovery)	102 %			70 - 130	
Oil and Grease (RPD)	4.3 %				0 - 20
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	05/13/2013 0800				

MB	LIMS ID: 13060303-MB-01
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Oil and Grease - water MB

Run: 1

Parameter	Result	DL	RL	Accuracy Control	Precision Control
Oil and Grease	<2.5 mg/L	2.5	2.5		
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	05/13/2013 0800				

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LCS	LIMS ID: 13060303-LCS-01
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Oil and Grease - water LCS

Run: 1

Parameter	Result	DL	RL	Accuracy Control	Precision Control
Oil and Grease (% Recovery)	108 %			70 - 130	
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	05/13/2013 0800				

MB	LIMS ID: 13060303-MB-02
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Oil and Grease - water MB

Run: 1

Parameter	Result	DL	RL	Accuracy Control	Precision Control
Oil and Grease	<2.5 mg/L	2.5	2.5		
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	05/13/2013 0800				

LCS	LIMS ID: 13060303-LCS-02
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Oil and Grease - water LCS

Run: 1

Parameter	Result	DL	RL	Accuracy Control	Precision Control
Oil and Grease (% Recovery)	81.8 %			70 - 130	
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	05/13/2013 0800				

Analytical Quality Control Results Report

Batch: 13060601	ICP Metals - water (Diss.)
WS-003	LIMS ID: 2013-1931

ICP Metals - water (Dissolved) DUP

Run: 1

Parameter	Result	DL	RL	Accuracy Control	Precision Control
Aluminum	23.4 ug/L	20	20		
Aluminum (RPD)	84.5 %				0 - 20
Antimony (RPD)	93.3 %				0 - 20
Antimony	<5 ug/L	1	5		
Arsenic	0.57 ug/L	0.2	0.5		
Arsenic (RPD)	1.6 %				0 - 20
Barium (RPD)	2.5 %				0 - 20
Barium	9.49 ug/L	0.4	2		
Beryllium	<0.1 ug/L	0.04	0.1		
Beryllium (RPD)	66.7 %				0 - 20
Boron (RPD)	16.4 %				0 - 20
Boron	21.5 ug/L	2	5		
Cadmium	<0.1 ug/L	0.05	0.1		
Cadmium (RPD)	0 %				0 - 20
Calcium (RPD)	1.5 %				0 - 20
Calcium	3.71 mg/L	0.03	0.03		
Chromium	<0.5 ug/L	0.05	0.5		
Chromium (RPD)	23.1 %				0 - 20
Cobalt (RPD)	8.7 %				0 - 20
Cobalt	<0.5 ug/L	0.05	0.5		
Copper	0.70 ug/L	0.2	0.5		
Copper (RPD)	2.9 %				0 - 20
Iron (RPD)	4.1 %				0 - 20
Iron	32.3 ug/L	5	20		
Lead	<0.3 ug/L	0.02	0.3		
Lead (RPD)	59.6 %				0 - 20
Magnesium (RPD)	1.7 %				0 - 20
Magnesium	2.03 mg/L	0.01	0.02		
Manganese	0.84 ug/L	0.07	0.3		
Manganese (RPD)	5.4 %				0 - 20
Nickel (RPD)	2.9 %				0 - 20
Nickel	0.79 ug/L	0.15	0.5		
Potassium	2.02 mg/L	0.01	0.02		

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Potassium (RPD)	2.4 %			0 - 20
Selenium (RPD)	0.9 %			0 - 20
Selenium	<1 ug/L	0.2	1	
Silicon Dioxide	1.76 mg/L	0.01	0.05	
Silicon Dioxide (RPD)	2.0 %			0 - 20
Silver	<0.5 ug/L	0.02	0.5	
Silver (RPD)	0 %			0 - 20
Sodium	6.05 mg/L	0.01	0.02	
Sodium (RPD)	1.8 %			0 - 20
Thallium (RPD)	0 %			0 - 20
Thallium	<0.5 ug/L	0	0.5	
Vanadium (RPD)	36.1 %			0 - 20
Vanadium	<0.5 ug/L	0.3	0.5	
Zinc	1.64 ug/L	0.3	1	
Zinc (RPD)	44.7 %			0 - 20
Hardness	18 mg/L	1	1	
Hardness (RPD)	2 %			0 - 20
Dilution Factor	1			
Analyzed By	Robert Graddy			
Analysis Date/Time	Jun 5 2013 4:32PM			

WS-003	LIMS ID: 2013-1931
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ICP Metals - water (Dissolved) MS

Run: 1

Parameter	Result	DL	RL	Accuracy Control	Precision Control
Aluminum (% Recovery)	102 %			70 - 130	
Antimony (% Recovery)	97.3 %			70 - 130	
Arsenic (% Recovery)	106 %			70 - 130	
Barium (% Recovery)	92.0 %			70 - 130	
Beryllium (% Recovery)	102 %			70 - 130	
Boron (% Recovery)	106 %			70 - 130	
Cadmium (% Recovery)	101 %			70 - 130	
Calcium (% Recovery)	87.0 %			70 - 130	
Chromium (% Recovery)	109 %			70 - 130	
Cobalt (% Recovery)	106 %			70 - 130	
Copper (% Recovery)	107 %			70 - 130	
Iron (% Recovery)	108 %			70 - 130	
Lead (% Recovery)	95.7 %			70 - 130	
Magnesium (% Recovery)	109 %			70 - 130	
Manganese (% Recovery)	110 %			70 - 130	

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Nickel (% Recovery)	100 %	70 - 130
Potassium (% Recovery)	90.7 %	70 - 130
Selenium (% Recovery)	108 %	70 - 130
Silver (% Recovery)	89.7 %	70 - 130
Sodium (% Recovery)	119 %	70 - 130
Thallium (% Recovery)	96.3 %	70 - 130
Vanadium (% Recovery)	107 %	70 - 130
Zinc (% Recovery)	112 %	70 - 130
Dilution Factor	1	
Analyzed By	Robert Graddy	
Analysis Date/Time	Jun 5 2013 4:38PM	

WS-003	LIMS ID: 2013-1931
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ICP Metals - water (Dissolved) MSD

Run: 1

Parameter	Result	DL	RL	Accuracy Control	Precision Control
Aluminum (% Recovery)	104 %			70 - 130	
Aluminum (RPD)	2.0 %				0 - 20
Antimony (% Recovery)	98.9 %			70 - 130	
Antimony (RPD)	1.6 %				0 - 20
Arsenic (% Recovery)	105 %			70 - 130	
Arsenic (RPD)	0.8 %				0 - 20
Barium (% Recovery)	93.1 %			70 - 130	
Barium (RPD)	1.2 %				0 - 20
Beryllium (% Recovery)	101 %			70 - 130	
Beryllium (RPD)	0.3 %				0 - 20
Boron (% Recovery)	108 %			70 - 130	
Boron (RPD)	1.7 %				0 - 20
Cadmium (% Recovery)	103 %			70 - 130	
Cadmium (RPD)	1.9 %				0 - 20
Calcium (% Recovery)	88.6 %			70 - 130	
Calcium (RPD)	1.3 %				0 - 20
Chromium (% Recovery)	110 %			70 - 130	
Chromium (RPD)	0.9 %				0 - 20
Cobalt (% Recovery)	107 %			70 - 130	
Cobalt (RPD)	0.7 %				0 - 20
Copper (% Recovery)	108 %			70 - 130	
Copper (RPD)	0.8 %				0 - 20
Iron (% Recovery)	109 %			70 - 130	
Iron (RPD)	1.0 %				0 - 20

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Lead (% Recovery)	95.2 %	70 - 130	
Lead (RPD)	0.4 %		0 - 20
Magnesium (% Recovery)	111 %	70 - 130	
Magnesium (RPD)	1.4 %		0 - 20
Manganese (% Recovery)	110 %	70 - 130	
Manganese (RPD)	0.1 %		0 - 20
Nickel (% Recovery)	110 %	70 - 130	
Nickel (RPD)	0.3 %		0 - 20
Potassium (% Recovery)	92.0 %	70 - 130	
Potassium (RPD)	1.2 %		0 - 20
Selenium (% Recovery)	108 %	70 - 130	
Selenium (RPD)	0.5 %		0 - 20
Silver (% Recovery)	90.5 %	70 - 130	
Silver (RPD)	0.8 %		0 - 20
Sodium (% Recovery)	122 %	70 - 130	
Sodium (RPD)	2.0 %		0 - 20
Thallium (% Recovery)	96.6 %	70 - 130	
Thallium (RPD)	0.3 %		0 - 20
Vanadium (% Recovery)	108 %	70 - 130	
Vanadium (RPD)	0.7 %		0 - 20
Zinc (% Recovery)	113 %	70 - 130	
Zinc (RPD)	0.3 %		0 - 20
Dilution Factor	1		
Analyzed By	Robert Graddy		
Analysis Date/Time	Jun 5 2013 4:45PM		

Analytical Quality Control Results Report

Batch: 13061002	ICP Metals - water (total)
WS-003	LIMS ID: 2013-1931

ICP Metals - water (Total) DUP

Run: 1

Parameter	Result	DL	RL	Accuracy Control	Precision Control
Aluminum	284 ug/L	20	20		
Aluminum (RPD)	75.3 %				0 - 20
Antimony (RPD)	0 %				0 - 20
Antimony	<10 ug/L	5	10		
Arsenic	1.19 ug/L	0.5	1		
Arsenic (RPD)	17.4 %				0 - 20
Barium (RPD)	14.5 %				0 - 20
Barium	22.5 ug/L	2	10		
Beryllium	<0.5 ug/L	0.1	0.5		
Beryllium (RPD)	127 %				0 - 20
Boron (RPD)	1.8 %				0 - 20
Boron	<25 ug/L	5	25		
Cadmium	<1 ug/L	0.3	1		
Cadmium (RPD)	0 %				0 - 20
Calcium (RPD)	0.1 %				0 - 20
Calcium	4.10 mg/L	0.04	0.04		
Chromium	9.67 ug/L	0.3	1		
Chromium (RPD)	192 %				0 - 20
Cobalt (RPD)	62.5 %				0 - 20
Cobalt	<1 ug/L	0.5	1		
Copper	6.76 ug/L	0.5	1		
Copper (RPD)	155 %				0 - 20
Iron (RPD)	37.4 %				0 - 20
Iron	860 ug/L	10	20		
Lead	1.73 ug/L	0.1	1		
Lead (RPD)	94.9 %				0 - 20
Magnesium (RPD)	2.1 %				0 - 20
Magnesium	2.04 mg/L	0.1	0.1		
Manganese	520 ug/L	0.2	1		
Manganese (RPD)	19 %				0 - 20
Nickel (RPD)	170 %				0 - 20
Nickel	11 ug/L	0.5	2.5		
Potassium	2.20 mg/L	0.05	1		

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Potassium (RPD)	0 %			0 - 20
Selenium (RPD)	29.4 %			0 - 20
Selenium	<2 ug/L	0.5	2	
Silver	<5 ug/L	1	5	
Silver (RPD)	815 %			0 - 20
Sodium	5.39 mg/L	0.02	0.04	
Sodium (RPD)	0.2 %			0 - 20
Thallium (RPD)	0 %			0 - 20
Thallium	<2.5 ug/L	0.05	2.5	
Vanadium (RPD)	45.1 %			0 - 20
Vanadium	<2.5 ug/L	1	2.5	
Zinc	3.34 ug/L	2	3	
Zinc (RPD)	72.2 %			0 - 20
Dilution Factor	1			
Analyzed By	Robert Graddy			
Analysis Date/Time	Jun 6 2013 12:30PM			

WS-003	LIMS ID: 2013-1931
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ICP Metals - water (Total) MS

Run: 1

Parameter	Result	DL	RL	Accuracy Control	Precision Control
Aluminum (% Recovery)	132 %			70 - 130	
Antimony (% Recovery)	96.0 %			70 - 130	
Arsenic (% Recovery)	101 %			70 - 130	
Barium (% Recovery)	99.0 %			70 - 130	
Beryllium (% Recovery)	97.2 %			70 - 130	
Boron (% Recovery)	101 %			70 - 130	
Cadmium (% Recovery)	99.6 %			70 - 130	
Calcium (% Recovery)	98.4 %			70 - 130	
Chromium (% Recovery)	104 %			70 - 130	
Cobalt (% Recovery)	103 %			70 - 130	
Copper (% Recovery)	104 %			70 - 130	
Iron (% Recovery)	115 %			70 - 130	
Lead (% Recovery)	100 %			70 - 130	
Magnesium (% Recovery)	104 %			70 - 130	
Manganese (% Recovery)	89 %			70 - 130	
Nickel (% Recovery)	100 %			70 - 130	
Potassium (% Recovery)	99.3 %			70 - 130	
Selenium (% Recovery)	95.7 %			70 - 130	
Silver (% Recovery)	94.2 %			70 - 130	

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Sodium (% Recovery)	110 %	70 - 130
Thallium (% Recovery)	101 %	70 - 130
Vanadium (% Recovery)	103 %	70 - 130
Zinc (% Recovery)	99.7 %	70 - 130
Dilution Factor	1	
Analyzed By	Robert Graddy	
Analysis Date/Time	Jun 6 2013 12:36PM	

WS-003	LIMS ID: 2013-1931
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ICP Metals - water (Total) MSD

Run: 1

Parameter	Result	DL	RL	Accuracy Control	Precision Control
Aluminum (% Recovery)	134 %			70 - 130	
Aluminum (RPD)	1.7 %				0 - 20
Antimony (% Recovery)	96.5 %			70 - 130	
Antimony (RPD)	0.5 %				0 - 20
Arsenic (% Recovery)	102 %			70 - 130	
Arsenic (RPD)	0.9 %				0 - 20
Barium (% Recovery)	99.5 %			70 - 130	
Barium (RPD)	0.5 %				0 - 20
Beryllium (% Recovery)	98.5 %			70 - 130	
Beryllium (RPD)	1.3 %				0 - 20
Boron (% Recovery)	102 %			70 - 130	
Boron (RPD)	1.0 %				0 - 20
Cadmium (% Recovery)	99.7 %			70 - 130	
Cadmium (RPD)	0.1 %				0 - 20
Calcium (% Recovery)	100 %			70 - 130	
Calcium (RPD)	1.4 %				0 - 20
Chromium (% Recovery)	102 %			70 - 130	
Chromium (RPD)	1.6 %				0 - 20
Cobalt (% Recovery)	102 %			70 - 130	
Cobalt (RPD)	0.9 %				0 - 20
Copper (% Recovery)	103 %			70 - 130	
Copper (RPD)	0.7 %				0 - 20
Iron (% Recovery)	109 %			70 - 130	
Iron (RPD)	1.4 %				0 - 20
Lead (% Recovery)	101 %			70 - 130	
Lead (RPD)	0.6 %				0 - 20
Magnesium (% Recovery)	103 %			70 - 130	
Magnesium (RPD)	0.2 %				0 - 20

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Manganese (% Recovery)	73 %	70 - 130	
Manganese (RPD)	1.1 %		0 - 20
Nickel (% Recovery)	100 %	70 - 130	
Nickel (RPD)	1.5 %		0 - 20
Potassium (% Recovery)	101 %	70 - 130	
Potassium (RPD)	1.1 %		0 - 20
Selenium (% Recovery)	96.6 %	70 - 130	
Selenium (RPD)	0.9 %		0 - 20
Silver (% Recovery)	94.0 %	70 - 130	
Silver (RPD)	0.2 %		0 - 20
Sodium (% Recovery)	109 %	70 - 130	
Sodium (RPD)	0.5 %		0 - 20
Thallium (% Recovery)	102 %	70 - 130	
Thallium (RPD)	1.0 %		0 - 20
Vanadium (% Recovery)	102 %	70 - 130	
Vanadium (RPD)	1.2 %		0 - 20
Zinc (% Recovery)	99.5 %	70 - 130	
Zinc (RPD)	0.2 %		0 - 20
Dilution Factor	1		
Analysis Date/Time	Jun 6 2013 12:55PM		
Analyzed By	Robert Graddy		