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

Client Report For: Exxon Oil Spill 2013 1148-1165
Attention:
Client Address:
,

Report Date: April 19, 2013
LAB ID: AR13APR17-03
Comment:

Approved By:_____ Date:April 19, 2013

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

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

Client: Special Samples
Lab ID: 2013-1148
Client Sample ID: SAM 5-S/WS-017S
Collection Date: 4/16/2013 10:25:00 AM
Matrix: Water

Analyses

Dissolved Metals by EPA 200.8 ***EPA 200.8*** ***Batch: 13041811*** ***Run: 1***

	Result	Reporting Limit	MDL	Qual	Unit
Aluminum	21.8	20	20		ug/L
Antimony	<5	5	1.0		ug/L
Arsenic	<0.5	0.5	0.2		ug/L
Barium	11.5	2	0.4		ug/L
Beryllium	<0.1	0.1	0.04		ug/L
Boron	14.6	5	2.0		ug/L
Cadmium	<0.1	0.1	0.05		ug/L
Calcium	3.54	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	0.91	0.5	0.2		ug/L
Iron	127	20	5.0		ug/L
Lead	<0.3	0.3	0.02		ug/L
Magnesium	1.62	0.02	0.01		mg/L
Manganese	10.1	0.3	0.07		ug/L
Nickel	1.07	0.5	0.15		ug/L
Potassium	1.89	0.02	0.01		mg/L
Selenium	<1	1	0.2		ug/L
Silicon Dioxide	1.52	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	4.02	1	0.3		ug/L
Hardness	15.5	1	1.0		mg/L
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	Apr 17 2013 11:40AM				

Total Metals by EPA 200.8 ***EPA 200.8*** ***Batch: 13041813*** ***Run: 1***

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

Laboratory Contact: Jeff Ruehr
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501-682-0955

	Result	Reporting Limit	MDL	Qual	Unit
Aluminum	234	20	20		ug/L
Antimony	<10	10	5		ug/L
Arsenic	<1	1	0.5		ug/L
Barium	15.0	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	8.73	0.04	0.04		mg/L
Chromium	<1	1	0.3		ug/L
Cobalt	<1	1	0.5		ug/L
Copper	1.14	1	0.5		ug/L
Iron	585	20	10.0		ug/L
Lead	<1	1	0.1		ug/L
Magnesium	1.65	0.1	0.1		mg/L
Manganese	103	1	0.2		ug/L
Nickel	<2.5	2.5	0.5		ug/L
Potassium	2.03	1	0.05		mg/L
Selenium	<2	2	0.5		ug/L
Silver	<5	5	1.0		ug/L
Sodium	6.09	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	Apr 17 2013 5:54PM				
Prep By					
Prep Date/Time					

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

Laboratory Contact: Jeff Ruehr
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501-682-0955

Client: Special Samples
Lab ID: 2013-1149
Client Sample ID: SAM 5-B/WS-017B
Collection Date: 4/16/2013 10:35:00 AM
Matrix: Water

Analyses

Dissolved Metals by EPA 200.8 ***EPA 200.8*** ***Batch: 13041811*** ***Run: 1***

	Result	Reporting Limit	MDL	Qual	Unit
Aluminum	23.2	20	20		ug/L
Antimony	<5	5	1.0		ug/L
Arsenic	0.56	0.5	0.2		ug/L
Barium	11.3	2	0.4		ug/L
Beryllium	<0.1	0.1	0.04		ug/L
Boron	15.0	5	2.0		ug/L
Cadmium	<0.1	0.1	0.05		ug/L
Calcium	11.2	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	1.02	0.5	0.2		ug/L
Iron	133	20	5.0		ug/L
Lead	<0.3	0.3	0.02		ug/L
Magnesium	1.65	0.02	0.01		mg/L
Manganese	11.6	0.3	0.07		ug/L
Nickel	1.14	0.5	0.15		ug/L
Potassium	1.85	0.02	0.01		mg/L
Selenium	<1	1	0.2		ug/L
Silicon Dioxide	1.55	0.05	0.01		mg/L
Silver	<0.5	0.5	0.02		ug/L
Sodium	6.23	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	2.06	1	0.3		ug/L
Hardness	34.8	1	1.0		mg/L
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	Apr 17 2013 3:48PM				

Total Metals by EPA 200.8 ***EPA 200.8*** ***Batch: 13041813*** ***Run: 1***

	Result	Reporting	MDL	Qual	Unit

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

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		Limit		
Aluminum	267	20	20	ug/L
Antimony	<10	10	5	ug/L
Arsenic	<1	1	0.5	ug/L
Barium	15.2	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	6.46	0.04	0.04	mg/L
Chromium	<1	1	0.3	ug/L
Cobalt	<1	1	0.5	ug/L
Copper	1.21	1	0.5	ug/L
Iron	634	20	10.0	ug/L
Lead	<1	1	0.1	ug/L
Magnesium	1.66	0.1	0.1	mg/L
Manganese	109	1	0.2	ug/L
Nickel	<2.5	2.5	0.5	ug/L
Potassium	2.06	1	0.05	mg/L
Selenium	<2	2	0.5	ug/L
Silver	<5	5	1.0	ug/L
Sodium	6.12	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	3.08	3	2.0	ug/L
Dilution Factor	1			
Analyzed By	Robert Graddy			
Analysis Date/Time	Apr 17 2013 6:00PM			
Prep By				
Prep Date/Time				

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North Liitle Rock, AR 72118

Laboratory Contact: Jeff Ruehr
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Client: Special Samples
Lab ID: 2013-1150
Client Sample ID: SAM 4-S/WS-016S
Collection Date: 4/16/2013 11:25:00 AM
Matrix: Water

Analyses

Dissolved Metals by EPA 200.8 ***EPA 200.8*** ***Batch: 13041811*** ***Run: 1***

	Result	Reporting Limit	MDL	Qual	Unit
Aluminum	23.9	20	20		ug/L
Antimony	<5	5	1.0		ug/L
Arsenic	0.50	0.5	0.2		ug/L
Barium	11.3	2	0.4		ug/L
Beryllium	<0.1	0.1	0.04		ug/L
Boron	13.5	5	2.0		ug/L
Cadmium	<0.1	0.1	0.05		ug/L
Calcium	11.5	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	1.00	0.5	0.2		ug/L
Iron	122	20	5.0		ug/L
Lead	<0.3	0.3	0.02		ug/L
Magnesium	1.54	0.02	0.01		mg/L
Manganese	9.64	0.3	0.07		ug/L
Nickel	1.36	0.5	0.15		ug/L
Potassium	1.78	0.02	0.01		mg/L
Selenium	<1	1	0.2		ug/L
Silicon Dioxide	1.53	0.05	0.01		mg/L
Silver	<0.5	0.5	0.02		ug/L
Sodium	5.81	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	6.90	1	0.3		ug/L
Hardness	35.0	1	1.0		mg/L
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	Apr 17 2013 3:55PM				

Total Metals by EPA 200.8 ***EPA 200.8*** ***Batch: 13041813*** ***Run: 1***

	Result	Reporting	MDL	Qual	Unit

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

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		Limit		
Aluminum	272	20	20	ug/L
Antimony	<10	10	5	ug/L
Arsenic	<1	1	0.5	ug/L
Barium	15.4	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	8.85	0.04	0.04	mg/L
Chromium	<1	1	0.3	ug/L
Cobalt	<1	1	0.5	ug/L
Copper	1.11	1	0.5	ug/L
Iron	677	20	10.0	ug/L
Lead	<1	1	0.1	ug/L
Magnesium	1.52	0.1	0.1	mg/L
Manganese	131	1	0.2	ug/L
Nickel	<2.5	2.5	0.5	ug/L
Potassium	1.93	1	0.05	mg/L
Selenium	<2	2	0.5	ug/L
Silver	<5	5	1.0	ug/L
Sodium	5.61	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	4.64	3	2.0	ug/L
Dilution Factor	1			
Analyzed By	Robert Graddy			
Analysis Date/Time	Apr 17 2013 6:07PM			
Prep By				
Prep Date/Time				

Arkansas Department of Environmental Quality
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North Liitle Rock, AR 72118

Laboratory Contact: Jeff Ruehr
Ruehr@adeq.state.ar.us
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Client: Special Samples
Lab ID: 2013-1151
Client Sample ID: SAM 4-B/WS-016B
Collection Date: 4/16/2013 11:35:00 AM
Matrix: Water

Analyses

Dissolved Metals by EPA 200.8 ***EPA 200.8*** ***Batch: 13041811*** ***Run: 1***

	Result	Reporting Limit	MDL	Qual	Unit
Aluminum	22.8	20	20		ug/L
Antimony	<5	5	1.0		ug/L
Arsenic	<0.5	0.5	0.2		ug/L
Barium	11.2	2	0.4		ug/L
Beryllium	<0.1	0.1	0.04		ug/L
Boron	13.2	5	2.0		ug/L
Cadmium	<0.1	0.1	0.05		ug/L
Calcium	9.38	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	0.80	0.5	0.2		ug/L
Iron	119	20	5.0		ug/L
Lead	<0.3	0.3	0.02		ug/L
Magnesium	1.52	0.02	0.01		mg/L
Manganese	10.3	0.3	0.07		ug/L
Nickel	0.84	0.5	0.15		ug/L
Potassium	1.70	0.02	0.01		mg/L
Selenium	<1	1	0.2		ug/L
Silicon Dioxide	1.73	0.05	0.01		mg/L
Silver	<0.5	0.5	0.02		ug/L
Sodium	5.64	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	3.41	1	0.3		ug/L
Hardness	29.7	1	1.0		mg/L
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	Apr 18 2013 3:39PM				

Total Metals by EPA 200.8 ***EPA 200.8*** ***Batch: 13041813*** ***Run: 1***

	Result	Reporting	MDL	Qual	Unit

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

Laboratory Contact: Jeff Ruehr
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501-682-0955

		Limit		
Aluminum	287	20	20	ug/L
Antimony	<10	10	5	ug/L
Arsenic	<1	1	0.5	ug/L
Barium	15.8	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	9.1	0.04	0.04	mg/L
Chromium	<1	1	0.3	ug/L
Cobalt	<1	1	0.5	ug/L
Copper	1.07	1	0.5	ug/L
Iron	673	20	10.0	ug/L
Lead	<1	1	0.1	ug/L
Magnesium	1.57	0.1	0.1	mg/L
Manganese	131	1	0.2	ug/L
Nickel	<2.5	2.5	0.5	ug/L
Potassium	1.98	1	0.05	mg/L
Selenium	<2	2	0.5	ug/L
Silver	<5	5	1.0	ug/L
Sodium	5.72	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	Apr 17 2013 6:13PM			
Prep By				
Prep Date/Time				

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

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

Client: Special Samples
Lab ID: 2013-1152
Client Sample ID: SAM 3-S/WS-015S
Collection Date: 4/16/2013 12:25:00 PM
Matrix: Water

Analyses

Dissolved Metals by EPA 200.8 ***EPA 200.8*** ***Batch: 13041811*** ***Run: 1***

	Result	Reporting Limit	MDL	Qual	Unit
Aluminum	34.5	20	20		ug/L
Antimony	<5	5	1.0		ug/L
Arsenic	<0.5	0.5	0.2		ug/L
Barium	11.7	2	0.4		ug/L
Beryllium	<0.1	0.1	0.04		ug/L
Boron	12.7	5	2.0		ug/L
Cadmium	<0.1	0.1	0.05		ug/L
Calcium	8.47	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	0.84	0.5	0.2		ug/L
Iron	145	20	5.0		ug/L
Lead	<0.3	0.3	0.02		ug/L
Magnesium	1.47	0.02	0.01		mg/L
Manganese	42.0	0.3	0.07		ug/L
Nickel	0.95	0.5	0.15		ug/L
Potassium	1.74	0.02	0.01		mg/L
Selenium	<1	1	0.2		ug/L
Silicon Dioxide	2.04	0.05	0.01		mg/L
Silver	<0.5	0.5	0.02		ug/L
Sodium	5.20	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	7.00	1	0.3		ug/L
Hardness	27.2	1	1.0		mg/L
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	Apr 17 2013 12:05PM				

Total Metals by EPA 200.8 ***EPA 200.8*** ***Batch: 13041813*** ***Run: 1***

	Result	Reporting	MDL	Qual	Unit

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

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

		Limit		
Aluminum	296	20	20	ug/L
Antimony	<10	10	5	ug/L
Arsenic	<1	1	0.5	ug/L
Barium	16.0	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	11.4	0.04	0.04	mg/L
Chromium	<1	1	0.3	ug/L
Cobalt	<1	1	0.5	ug/L
Copper	1.15	1	0.5	ug/L
Iron	677	20	10.0	ug/L
Lead	<1	1	0.1	ug/L
Magnesium	1.50	0.1	0.1	mg/L
Manganese	156	1	0.2	ug/L
Nickel	<2.5	2.5	0.5	ug/L
Potassium	1.88	1	0.05	mg/L
Selenium	<2	2	0.5	ug/L
Silver	<5	5	1.0	ug/L
Sodium	5.26	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	4.40	3	2.0	ug/L
Dilution Factor	1			
Analyzed By	Robert Graddy			
Analysis Date/Time	Apr 17 2013 6:20PM			
Prep By				
Prep Date/Time				

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

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

Client: Special Samples
Lab ID: 2013-1153
Client Sample ID: SAM 3-B/WS-015B
Collection Date: 4/16/2013 12:35:00 PM
Matrix: Water

Analyses

Dissolved Metals by EPA 200.8 ***EPA 200.8*** ***Batch: 13041811*** ***Run: 1***

	Result	Reporting Limit	MDL	Qual	Unit
Aluminum	29.7	20	20		ug/L
Antimony	<5	5	1.0		ug/L
Arsenic	0.51	0.5	0.2		ug/L
Barium	11.9	2	0.4		ug/L
Beryllium	<0.1	0.1	0.04		ug/L
Boron	12.9	5	2.0		ug/L
Cadmium	<0.1	0.1	0.05		ug/L
Calcium	11.7	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	0.77	0.5	0.2		ug/L
Iron	146	20	5.0		ug/L
Lead	<0.3	0.3	0.02		ug/L
Magnesium	1.48	0.02	0.01		mg/L
Manganese	44.6	0.3	0.07		ug/L
Nickel	0.91	0.5	0.15		ug/L
Potassium	1.71	0.02	0.01		mg/L
Selenium	<1	1	0.2		ug/L
Silicon Dioxide	2.04	0.05	0.01		mg/L
Silver	<0.5	0.5	0.02		ug/L
Sodium	5.22	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	2.66	1	0.3		ug/L
Hardness	35.2	1	1.0		mg/L
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	Apr 17 2013 12:12PM				

Total Metals by EPA 200.8 ***EPA 200.8*** ***Batch: 13041813*** ***Run: 1***

	Result	Reporting	MDL	Qual	Unit

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

Laboratory Contact: Jeff Ruehr
Ruehr@adeq.state.ar.us
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		Limit		
Aluminum	264	20	20	ug/L
Antimony	<10	10	5	ug/L
Arsenic	<1	1	0.5	ug/L
Barium	15.7	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	11.7	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	651	20	10.0	ug/L
Lead	<1	1	0.1	ug/L
Magnesium	1.49	0.1	0.1	mg/L
Manganese	156	1	0.2	ug/L
Nickel	<2.5	2.5	0.5	ug/L
Potassium	1.84	1	0.05	mg/L
Selenium	<2	2	0.5	ug/L
Silver	<5	5	1.0	ug/L
Sodium	5.12	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	Apr 17 2013 6:26PM			
Prep By				
Prep Date/Time				

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

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

Client: Special Samples
Lab ID: 2013-1154
Client Sample ID: SAM 2-S/WS-014S
Collection Date: 4/16/2013 1:10:00 PM
Matrix: Water

Analyses

Dissolved Metals by EPA 200.8 ***EPA 200.8*** ***Batch: 13041811*** ***Run: 1***

	Result	Reporting Limit	MDL	Qual	Unit
Aluminum	58.5	20	20		ug/L
Antimony	<5	5	1.0		ug/L
Arsenic	0.50	0.5	0.2		ug/L
Barium	13.1	2	0.4		ug/L
Beryllium	<0.1	0.1	0.04		ug/L
Boron	10.6	5	2.0		ug/L
Cadmium	<0.1	0.1	0.05		ug/L
Calcium	10.8	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	182	20	5.0		ug/L
Lead	<0.3	0.3	0.02		ug/L
Magnesium	1.31	0.02	0.01		mg/L
Manganese	82.5	0.3	0.07		ug/L
Nickel	0.91	0.5	0.15		ug/L
Potassium	1.52	0.02	0.01		mg/L
Selenium	<1	1	0.2		ug/L
Silicon Dioxide	2.92	0.05	0.01		mg/L
Silver	<0.5	0.5	0.02		ug/L
Sodium	3.87	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	8.56	1	0.3		ug/L
Hardness	32.4	1	1.0		mg/L
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	Apr 17 2013 12:18PM				

Total Metals by EPA 200.8 ***EPA 200.8*** ***Batch: 13041813*** ***Run: 1***

	Result	Reporting	MDL	Qual	Unit

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

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

		Limit		
Aluminum	385	20	20	ug/L
Antimony	<10	10	5	ug/L
Arsenic	<1	1	0.5	ug/L
Barium	16.8	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	10.3	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	604	20	10.0	ug/L
Lead	<1	1	0.1	ug/L
Magnesium	1.35	0.1	0.1	mg/L
Manganese	150	1	0.2	ug/L
Nickel	<2.5	2.5	0.5	ug/L
Potassium	1.69	1	0.05	mg/L
Selenium	<2	2	0.5	ug/L
Silver	<5	5	1.0	ug/L
Sodium	3.90	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	3.07	3	2.0	ug/L
Dilution Factor	1			
Analyzed By	Robert Graddy			
Analysis Date/Time	Apr 17 2013 6:32PM			
Prep By				
Prep Date/Time				

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

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

Client: Special Samples
Lab ID: 2013-1155

Client Sample ID: SAM 2-B/WS-014B
Collection Date: 4/16/2013 1:20:00 PM
Matrix: Water

Analyses

Dissolved Metals by EPA 200.8 ***EPA 200.8*** ***Batch: 13041811*** ***Run: 1***

	Result	Reporting Limit	MDL	Qual	Unit
Aluminum	49.6	20	20		ug/L
Antimony	<5	5	1.0		ug/L
Arsenic	0.54	0.5	0.2		ug/L
Barium	13.2	2	0.4		ug/L
Beryllium	<0.1	0.1	0.04		ug/L
Boron	11.9	5	2.0		ug/L
Cadmium	<0.1	0.1	0.05		ug/L
Calcium	10.7	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	178	20	5.0		ug/L
Lead	<0.3	0.3	0.02		ug/L
Magnesium	1.36	0.02	0.01		mg/L
Manganese	84.1	0.3	0.07		ug/L
Nickel	0.98	0.5	0.15		ug/L
Potassium	1.58	0.02	0.01		mg/L
Selenium	<1	1	0.2		ug/L
Silicon Dioxide	2.88	0.05	0.01		mg/L
Silver	<0.5	0.5	0.02		ug/L
Sodium	4.00	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	3.60	1	0.3		ug/L
Hardness	32.2	1	1.0		mg/L
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	Apr 17 2013 12:56PM				

Total Metals by EPA 200.8 ***EPA 200.8*** ***Batch: 13041813*** ***Run: 1***

	Result	Reporting	MDL	Qual	Unit

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

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

		Limit		
Aluminum	360	20	20	ug/L
Antimony	<10	10	5	ug/L
Arsenic	<1	1	0.5	ug/L
Barium	16.8	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	10.5	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	646	20	10.0	ug/L
Lead	<1	1	0.1	ug/L
Magnesium	1.37	0.1	0.1	mg/L
Manganese	158	1	0.2	ug/L
Nickel	<2.5	2.5	0.5	ug/L
Potassium	1.67	1	0.05	mg/L
Selenium	<2	2	0.5	ug/L
Silver	<5	5	1.0	ug/L
Sodium	3.98	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	Apr 17 2013 7:10PM			
Prep By				
Prep Date/Time				

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

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

Client: Special Samples
Lab ID: 2013-1156
Client Sample ID: SAM 1-S/WS-013S
Collection Date: 4/16/2013 2:20:00 PM
Matrix: Water

Analyses

Dissolved Metals by EPA 200.8 ***EPA 200.8*** ***Batch: 13041811*** ***Run: 1***

	Result	Reporting Limit	MDL	Qual	Unit
Aluminum	52.1	20	20		ug/L
Antimony	<5	5	1.0		ug/L
Arsenic	<0.5	0.5	0.2		ug/L
Barium	13.0	2	0.4		ug/L
Beryllium	<0.1	0.1	0.04		ug/L
Boron	9.90	5	2.0		ug/L
Cadmium	<0.1	0.1	0.05		ug/L
Calcium	10.2	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	0.77	0.5	0.2		ug/L
Iron	184	20	5.0		ug/L
Lead	<0.3	0.3	0.02		ug/L
Magnesium	1.25	0.02	0.01		mg/L
Manganese	108	0.3	0.07		ug/L
Nickel	0.89	0.5	0.15		ug/L
Potassium	1.43	0.02	0.01		mg/L
Selenium	<1	1	0.2		ug/L
Silicon Dioxide	3.06	0.05	0.01		mg/L
Silver	<0.5	0.5	0.02		ug/L
Sodium	3.31	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	6.21	1	0.3		ug/L
Hardness	30.6	1	1.0		mg/L
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	Apr 17 2013 1:03PM				

Total Metals by EPA 200.8 ***EPA 200.8*** ***Batch: 13041813*** ***Run: 1***

	Result	Reporting	MDL	Qual	Unit

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

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

		Limit		
Aluminum	417	20	20	ug/L
Antimony	<10	10	5	ug/L
Arsenic	<1	1	0.5	ug/L
Barium	16.8	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	10.4	0.04	0.04	mg/L
Chromium	<1	1	0.3	ug/L
Cobalt	<1	1	0.5	ug/L
Copper	1.04	1	0.5	ug/L
Iron	626	20	10.0	ug/L
Lead	<1	1	0.1	ug/L
Magnesium	1.28	0.1	0.1	mg/L
Manganese	160	1	0.2	ug/L
Nickel	<2.5	2.5	0.5	ug/L
Potassium	1.56	1	0.05	mg/L
Selenium	<2	2	0.5	ug/L
Silver	<5	5	1.0	ug/L
Sodium	3.32	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	3.87	3	2.0	ug/L
Dilution Factor	1			
Analyzed By	Robert Graddy			
Analysis Date/Time	Apr 17 2013 7:17PM			
Prep By				
Prep Date/Time				

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

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

Client: Special Samples
Lab ID: 2013-1157
Client Sample ID: SAM 1-B/WS-013B
Collection Date: 4/16/2013 2:30:00 PM
Matrix: Water

Analyses

Dissolved Metals by EPA 200.8 ***EPA 200.8*** ***Batch: 13041811*** ***Run: 1***

	Result	Reporting Limit	MDL	Qual	Unit
Aluminum	56.9	20	20		ug/L
Antimony	<5	5	1.0		ug/L
Arsenic	<0.5	0.5	0.2		ug/L
Barium	13.4	2	0.4		ug/L
Beryllium	<0.1	0.1	0.04		ug/L
Boron	9.58	5	2.0		ug/L
Cadmium	<0.1	0.1	0.05		ug/L
Calcium	10.00	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	199	20	5.0		ug/L
Lead	<0.3	0.3	0.02		ug/L
Magnesium	1.25	0.02	0.01		mg/L
Manganese	118	0.3	0.07		ug/L
Nickel	0.86	0.5	0.15		ug/L
Potassium	1.41	0.02	0.01		mg/L
Selenium	<1	1	0.2		ug/L
Silicon Dioxide	3.11	0.05	0.01		mg/L
Silver	<0.5	0.5	0.02		ug/L
Sodium	3.19	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	3.52	1	0.3		ug/L
Hardness	30.1	1	1.0		mg/L
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	Apr 17 2013 1:09PM				

Total Metals by EPA 200.8 ***EPA 200.8*** ***Batch: 13041813*** ***Run: 1***

	Result	Reporting	MDL	Qual	Unit

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

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

		Limit		
Aluminum	544	20	20	ug/L
Antimony	<10	10	5	ug/L
Arsenic	<1	1	0.5	ug/L
Barium	20.4	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	11.0	0.04	0.04	mg/L
Chromium	<1	1	0.3	ug/L
Cobalt	<1	1	0.5	ug/L
Copper	1.03	1	0.5	ug/L
Iron	1140	20	10.0	ug/L
Lead	<1	1	0.1	ug/L
Magnesium	1.30	0.1	0.1	mg/L
Manganese	217	1	0.2	ug/L
Nickel	<2.5	2.5	0.5	ug/L
Potassium	1.54	1	0.05	mg/L
Selenium	<2	2	0.5	ug/L
Silver	<5	5	1.0	ug/L
Sodium	3.18	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	Apr 17 2013 7:23PM			
Prep By				
Prep Date/Time				

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

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

Client: Special Samples
Lab ID: 2013-1158
Client Sample ID: FWS 2-S/WS-011S
Collection Date: 4/16/2013 3:10:00 PM
Matrix: Water

Analyses

Dissolved Metals by EPA 200.8 ***EPA 200.8*** ***Batch: 13041811*** ***Run: 1***

	Result	Reporting Limit	MDL	Qual	Unit
Aluminum	46.1	20	20		ug/L
Antimony	<5	5	1.0		ug/L
Arsenic	0.53	0.5	0.2		ug/L
Barium	13.0	2	0.4		ug/L
Beryllium	<0.1	0.1	0.04		ug/L
Boron	12.0	5	2.0		ug/L
Cadmium	<0.1	0.1	0.05		ug/L
Calcium	11.4	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	0.81	0.5	0.2		ug/L
Iron	152	20	5.0		ug/L
Lead	<0.3	0.3	0.02		ug/L
Magnesium	1.42	0.02	0.01		mg/L
Manganese	63	0.3	0.07		ug/L
Nickel	0.78	0.5	0.15		ug/L
Potassium	1.66	0.02	0.01		mg/L
Selenium	<1	1	0.2		ug/L
Silicon Dioxide	2.41	0.05	0.01		mg/L
Silver	<0.5	0.5	0.02		ug/L
Sodium	4.8	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	3.45	1	0.3		ug/L
Hardness	34.4	1	1.0		mg/L
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	Apr 17 2013 1:15PM				

Total Metals by EPA 200.8 ***EPA 200.8*** ***Batch: 13041813*** ***Run: 1***

	Result	Reporting	MDL	Qual	Unit

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

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

		Limit		
Aluminum	338	20	20	ug/L
Antimony	<10	10	5	ug/L
Arsenic	<1	1	0.5	ug/L
Barium	18.3	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	10.7	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	645	20	10.0	ug/L
Lead	<1	1	0.1	ug/L
Magnesium	1.43	0.1	0.1	mg/L
Manganese	181	1	0.2	ug/L
Nickel	<2.5	2.5	0.5	ug/L
Potassium	1.78	1	0.05	mg/L
Selenium	<2	2	0.5	ug/L
Silver	<5	5	1.0	ug/L
Sodium	4.77	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	Apr 17 2013 7:30PM			
Prep By				
Prep Date/Time				

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

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

Client: Special Samples
Lab ID: 2013-1159
Client Sample ID: FWS 2-B/WS-011B
Collection Date: 4/16/2013 3:20:00 PM
Matrix: Water

Analyses

Dissolved Metals by EPA 200.8 ***EPA 200.8*** ***Batch: 13041811*** ***Run: 1***

	Result	Reporting Limit	MDL	Qual	Unit
Aluminum	45.2	20	20		ug/L
Antimony	<5	5	1.0		ug/L
Arsenic	0.53	0.5	0.2		ug/L
Barium	12.8	2	0.4		ug/L
Beryllium	<0.1	0.1	0.04		ug/L
Boron	12.0	5	2.0		ug/L
Cadmium	<0.1	0.1	0.05		ug/L
Calcium	10.6	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	0.84	0.5	0.2		ug/L
Iron	152	20	5.0		ug/L
Lead	<0.3	0.3	0.02		ug/L
Magnesium	1.4	0.02	0.01		mg/L
Manganese	58.6	0.3	0.07		ug/L
Nickel	0.81	0.5	0.15		ug/L
Potassium	1.64	0.02	0.01		mg/L
Selenium	<1	1	0.2		ug/L
Silicon Dioxide	2.40	0.05	0.01		mg/L
Silver	<0.5	0.5	0.02		ug/L
Sodium	4.76	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	2.61	1	0.3		ug/L
Hardness	32.4	1	1.0		mg/L
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	Apr 17 2013 1:22PM				

Total Metals by EPA 200.8 ***EPA 200.8*** ***Batch: 13041813*** ***Run: 1***

	Result	Reporting	MDL	Qual	Unit

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

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

		Limit		
Aluminum	398	20	20	ug/L
Antimony	<10	10	5	ug/L
Arsenic	<1	1	0.5	ug/L
Barium	18.6	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	11.5	0.04	0.04	mg/L
Chromium	<1	1	0.3	ug/L
Cobalt	<1	1	0.5	ug/L
Copper	1.01	1	0.5	ug/L
Iron	668	20	10.0	ug/L
Lead	<1	1	0.1	ug/L
Magnesium	1.47	0.1	0.1	mg/L
Manganese	179	1	0.2	ug/L
Nickel	<2.5	2.5	0.5	ug/L
Potassium	1.82	1	0.05	mg/L
Selenium	<2	2	0.5	ug/L
Silver	<5	5	1.0	ug/L
Sodium	4.88	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	Apr 17 2013 7:36PM			
Prep By				
Prep Date/Time				

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

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

Client: Special Samples
Lab ID: 2013-1160
Client Sample ID: FWS 3-S/WS-012S
Collection Date: 4/16/2013 3:50:00 PM
Matrix: Water

Analyses

Dissolved Metals by EPA 200.8 ***EPA 200.8*** ***Batch: 13041811*** ***Run: 1***

	Result	Reporting Limit	MDL	Qual	Unit
Aluminum	81.5	20	20		ug/L
Antimony	<5	5	1.0		ug/L
Arsenic	0.71	0.5	0.2		ug/L
Barium	13.2	2	0.4		ug/L
Beryllium	<0.1	0.1	0.04		ug/L
Boron	12.6	5	2.0		ug/L
Cadmium	<0.1	0.1	0.05		ug/L
Calcium	10.8	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	0.98	0.5	0.2		ug/L
Iron	207	20	5.0		ug/L
Lead	<0.3	0.3	0.02		ug/L
Magnesium	1.40	0.02	0.01		mg/L
Manganese	174	0.3	0.07		ug/L
Nickel	0.98	0.5	0.15		ug/L
Potassium	1.66	0.02	0.01		mg/L
Selenium	<1	1	0.2		ug/L
Silicon Dioxide	2.68	0.05	0.01		mg/L
Silver	<0.5	0.5	0.02		ug/L
Sodium	4.74	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	2.46	1	0.3		ug/L
Hardness	32.8	1	1.0		mg/L
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	Apr 17 2013 1:28PM				

Total Metals by EPA 200.8 ***EPA 200.8*** ***Batch: 13041813*** ***Run: 1***

	Result	Reporting	MDL	Qual	Unit

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

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

		Limit		
Aluminum	1280	20	20	ug/L
Antimony	<10	10	5	ug/L
Arsenic	<1	1	0.5	ug/L
Barium	24.3	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	8.33	0.04	0.04	mg/L
Chromium	1.32	1	0.3	ug/L
Cobalt	<1	1	0.5	ug/L
Copper	1.43	1	0.5	ug/L
Iron	1310	20	10.0	ug/L
Lead	1.25	1	0.1	ug/L
Magnesium	1.53	0.1	0.1	mg/L
Manganese	275	1	0.2	ug/L
Nickel	<2.5	2.5	0.5	ug/L
Potassium	1.90	1	0.05	mg/L
Selenium	<2	2	0.5	ug/L
Silver	<5	5	1.0	ug/L
Sodium	4.70	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	5.40	3	2.0	ug/L
Dilution Factor	1			
Analyzed By	Robert Graddy			
Analysis Date/Time	Apr 17 2013 7:42PM			
Prep By				
Prep Date/Time				

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

Laboratory Contact: Jeff Ruehr
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Client: Special Samples
Lab ID: 2013-1161
Client Sample ID: FWS 3-B/WS-012B
Collection Date: 4/16/2013 4:00:00 PM
Matrix: Water

Analyses

Dissolved Metals by EPA 200.8 ***EPA 200.8*** ***Batch: 13041811*** ***Run: 1***

	Result	Reporting Limit	MDL	Qual	Unit
Aluminum	63.6	20	20		ug/L
Antimony	<5	5	1.0		ug/L
Arsenic	0.65	0.5	0.2		ug/L
Barium	13.0	2	0.4		ug/L
Beryllium	<0.1	0.1	0.04		ug/L
Boron	11.8	5	2.0		ug/L
Cadmium	<0.1	0.1	0.05		ug/L
Calcium	10.7	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	0.90	0.5	0.2		ug/L
Iron	195	20	5.0		ug/L
Lead	<0.3	0.3	0.02		ug/L
Magnesium	1.40	0.02	0.01		mg/L
Manganese	124	0.3	0.07		ug/L
Nickel	0.93	0.5	0.15		ug/L
Potassium	1.64	0.02	0.01		mg/L
Selenium	<1	1	0.2		ug/L
Silicon Dioxide	2.50	0.05	0.01		mg/L
Silver	<0.5	0.5	0.02		ug/L
Sodium	4.71	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	2.70	1	0.3		ug/L
Hardness	32.4	1	1.0		mg/L
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	Apr 17 2013 1:34PM				

Total Metals by EPA 200.8 ***EPA 200.8*** ***Batch: 13041813*** ***Run: 1***

	Result	Reporting	MDL	Qual	Unit

Arkansas Department of Environmental Quality
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North Liitle Rock, AR 72118

Laboratory Contact: Jeff Ruehr
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		Limit		
Aluminum	761	20	20	ug/L
Antimony	<10	10	5	ug/L
Arsenic	<1	1	0.5	ug/L
Barium	20.4	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	11.0	0.04	0.04	mg/L
Chromium	<1	1	0.3	ug/L
Cobalt	<1	1	0.5	ug/L
Copper	1.24	1	0.5	ug/L
Iron	980	20	10.0	ug/L
Lead	<1	1	0.1	ug/L
Magnesium	1.49	0.1	0.1	mg/L
Manganese	228	1	0.2	ug/L
Nickel	<2.5	2.5	0.5	ug/L
Potassium	1.82	1	0.05	mg/L
Selenium	<2	2	0.5	ug/L
Silver	<5	5	1.0	ug/L
Sodium	4.73	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	3.53	3	2.0	ug/L
Dilution Factor	1			
Analyzed By	Robert Graddy			
Analysis Date/Time	Apr 17 2013 7:49PM			
Prep By				
Prep Date/Time				

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North Liitle Rock, AR 72118

Laboratory Contact: Jeff Ruehr
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501-682-0955

Client: Special Samples
Lab ID: 2013-1162
Client Sample ID: FWS 1-S/WS-010S
Collection Date: 4/16/2013 4:25:00 PM
Matrix: Water

Analyses

Dissolved Metals by EPA 200.8 ***EPA 200.8*** ***Batch: 13041811*** ***Run: 1***

	Result	Reporting Limit	MDL	Qual	Unit
Aluminum	103	20	20		ug/L
Antimony	<5	5	1.0		ug/L
Arsenic	0.81	0.5	0.2		ug/L
Barium	15.3	2	0.4		ug/L
Beryllium	<0.1	0.1	0.04		ug/L
Boron	11.8	5	2.0		ug/L
Cadmium	<0.1	0.1	0.05		ug/L
Calcium	10.8	0.03	0.03		mg/L
Chromium	<0.5	0.5	0.05		ug/L
Cobalt	0.74	0.5	0.05		ug/L
Copper	0.98	0.5	0.2		ug/L
Iron	219	20	5.0		ug/L
Lead	<0.3	0.3	0.02		ug/L
Magnesium	1.40	0.02	0.01		mg/L
Manganese	357	0.3	0.07		ug/L
Nickel	1.14	0.5	0.15		ug/L
Potassium	1.67	0.02	0.01		mg/L
Selenium	<1	1	0.2		ug/L
Silicon Dioxide	3.20	0.05	0.01		mg/L
Silver	<0.5	0.5	0.02		ug/L
Sodium	4.66	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	3.78	1	0.3		ug/L
Hardness	32.8	1	1.0		mg/L
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	Apr 17 2013 1:41PM				

Total Metals by EPA 200.8 ***EPA 200.8*** ***Batch: 13041813*** ***Run: 1***

	Result	Reporting	MDL	Qual	Unit

Arkansas Department of Environmental Quality
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		Limit		
Aluminum	2990	20	20	ug/L
Antimony	<10	10	5	ug/L
Arsenic	1.35	1	0.5	ug/L
Barium	39.2	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	3.20	0.04	0.04	mg/L
Chromium	2.96	1	0.3	ug/L
Cobalt	1.78	1	0.5	ug/L
Copper	2.17	1	0.5	ug/L
Lead	2.86	1	0.1	ug/L
Magnesium	1.71	0.1	0.1	mg/L
Manganese	465	1	0.2	ug/L
Nickel	3.00	2.5	0.5	ug/L
Potassium	2.17	1	0.05	mg/L
Selenium	<2	2	0.5	ug/L
Silver	<5	5	1.0	ug/L
Sodium	4.73	0.04	0.02	mg/L
Thallium	<2.5	2.5	0.05	ug/L
Vanadium	4.24	2.5	1.0	ug/L
Zinc	9.49	3	2.0	ug/L
Dilution Factor	1			
Analyzed By	Robert Graddy			
Analysis Date/Time	Apr 17 2013 8:08PM			
Prep By				
Prep Date/Time				

Total Metals by EPA 200.8 ***EPA 200.8*** ***Batch: 13041813*** ***Run: 2***

	Result	Reporting Limit	MDL	Qual	Unit
Iron	2140	200	10.0		ug/L
Dilution Factor	10				
Analyzed By	Robert Graddy				
Analysis Date/Time	Apr 18 2013 1:52PM				
Prep By					
Prep Date/Time					

Arkansas Department of Environmental Quality
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Client: Special Samples
Lab ID: 2013-1163
Client Sample ID: FW1 1-B/WS-010B
Collection Date: 4/16/2013 4:35:00 PM
Matrix: Water

Analyses

Dissolved Metals by EPA 200.8 ***EPA 200.8*** ***Batch: 13041811*** ***Run: 1***

	Result	Reporting Limit	MDL	Qual	Unit
Aluminum	126	20	20		ug/L
Antimony	<5	5	1.0		ug/L
Arsenic	1.06	0.5	0.2		ug/L
Barium	17.2	2	0.4		ug/L
Beryllium	<0.1	0.1	0.04		ug/L
Boron	11.6	5	2.0		ug/L
Cadmium	<0.1	0.1	0.05		ug/L
Calcium	11.2	0.03	0.03		mg/L
Chromium	<0.5	0.5	0.05		ug/L
Cobalt	1.28	0.5	0.05		ug/L
Copper	1.11	0.5	0.2		ug/L
Iron	236	20	5.0		ug/L
Lead	<0.3	0.3	0.02		ug/L
Magnesium	1.38	0.02	0.01		mg/L
Manganese	546	0.3	0.07		ug/L
Nickel	1.34	0.5	0.15		ug/L
Potassium	1.71	0.02	0.01		mg/L
Selenium	<1	1	0.2		ug/L
Silicon Dioxide	3.59	0.05	0.01		mg/L
Silver	<0.5	0.5	0.02		ug/L
Sodium	4.56	0.02	0.01		mg/L
Thallium	<0.5	0.5	0.005		ug/L
Vanadium	0.51	0.5	0.3		ug/L
Zinc	6.49	1	0.3		ug/L
Hardness	33.7	1	1.0		mg/L
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	Apr 17 2013 1:47PM				

Total Metals by EPA 200.8 ***EPA 200.8*** ***Batch: 13041813*** ***Run: 1***

	Result	Reporting	MDL	Qual	Unit

Arkansas Department of Environmental Quality
5301 Northshore Drive
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Laboratory Contact: Jeff Ruehr
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		Limit		
Aluminum	2560	20	20	ug/L
Antimony	<10	10	5	ug/L
Arsenic	1.69	1	0.5	ug/L
Barium	51.2	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	6.43	0.04	0.04	mg/L
Chromium	2.44	1	0.3	ug/L
Cobalt	2.88	1	0.5	ug/L
Copper	2.97	1	0.5	ug/L
Lead	4.87	1	0.1	ug/L
Magnesium	1.77	0.1	0.1	mg/L
Manganese	688	1	0.2	ug/L
Nickel	3.81	2.5	0.5	ug/L
Potassium	2.00	1	0.05	mg/L
Selenium	<2	2	0.5	ug/L
Silver	<5	5	1.0	ug/L
Sodium	4.59	0.04	0.02	mg/L
Thallium	<2.5	2.5	0.05	ug/L
Vanadium	4.08	2.5	1.0	ug/L
Zinc	17.8	3	2.0	ug/L
Dilution Factor	1			
Analyzed By	Robert Graddy			
Analysis Date/Time	Apr 17 2013 8:14PM			
Prep By				
Prep Date/Time				

Total Metals by EPA 200.8 ***EPA 200.8*** ***Batch: 13041813*** ***Run: 2***

	Result	Reporting Limit	MDL	Qual	Unit
Iron	3760	200	10.0		ug/L
Dilution Factor	10				
Analyzed By	Robert Graddy				
Analysis Date/Time	Apr 18 2013 1:58PM				
Prep By					
Prep Date/Time					

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

Laboratory Contact: Jeff Ruehr
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Client: Special Samples
Lab ID: 2013-1164

Client Sample ID: Metals Field Blank
Collection Date: 4/16/2013 1:10:00 PM
Matrix: Water

Analyses

Dissolved Metals by EPA 200.8 ***EPA 200.8*** ***Batch: 13041811*** ***Run: 1***

	Result	Reporting Limit	MDL	Qual	Unit
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	<0.3	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	0.021	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	2.75	1	0.3		ug/L
Hardness	<1	1	1.0		mg/L
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	Apr 17 2013 2:06PM				

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

Laboratory Contact: Jeff Ruehr
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501-682-0955

Client: Special Samples
Lab ID: 2013-1148
Client Sample ID: SAM 5-S/WS-017S
Collection Date: 4/16/2013 10:25:00 AM
Matrix: Water

Analyses

Oil and Grease ***EPA1664*** ***Batch: 13041810*** ***Run: 1***

	Result	Reporting Limit	MDL	Qual	Unit
Oil and Grease	<2.5	2.5	2.5		mg/L
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	04/18/2013 1500				

Semi-Volatiles by GC/MS ***EPA 3510C/EPA 8270D*** ***Batch: 13041808*** ***Run: 1***

	Result	Reporting Limit	MDL	Qual	Unit
2-Fluorophenol (% Recovery)	30.1	40-110			%
Nitrobenzene-d5 (% Recovery)	82.6	50-110			%
2-Fluorobiphenyl (% Recovery)	75.4	50-110			%
2,4,6-Tribromophenol (% Recovery)	74.5	40-110			%
Terphenyl-d14 (% Recovery)	75.1	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	<0.16	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	4/17/2013 1:59 PM			
Prep By	Ed Harris			
Prep Date/Time	4/17/2013 08:00			

Arkansas Department of Environmental Quality
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North Liitle Rock, AR 72118

Laboratory Contact: Jeff Ruehr
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501-682-0955

Client: Special Samples
Lab ID: 2013-1149
Client Sample ID: SAM 5-B/WS-017B
Collection Date: 4/16/2013 10:35:00 AM
Matrix: Water

Analyses

Oil and Grease ***EPA1664*** ***Batch: 13041810*** ***Run: 1***

	Result	Reporting Limit	MDL	Qual	Unit
Oil and Grease	<2.5	2.5	2.5		mg/L
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	04/18/2013 1500				

Semi-Volatiles by GC/MS ***EPA 3510C/EPA 8270D*** ***Batch: 13041808*** ***Run: 1***

	Result	Reporting Limit	MDL	Qual	Unit
2-Fluorophenol (% Recovery)	36.5	40-110			%
Nitrobenzene-d5 (% Recovery)	83.7	50-110			%
2-Fluorobiphenyl (% Recovery)	76.3	50-110			%
2,4,6-Tribromophenol (% Recovery)	71.2	40-110			%
Terphenyl-d14 (% Recovery)	75.6	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	<0.16	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	4/17/2013 2:28 PM			
Prep By	Ed Harris			
Prep Date/Time	4/17/2013 08:00			

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Client: Special Samples
Lab ID: 2013-1150
Client Sample ID: SAM 4-S/WS-016S
Collection Date: 4/16/2013 11:25:00 AM
Matrix: Water

Analyses

Oil and Grease ***EPA1664*** ***Batch: 13041810*** ***Run: 1***

	Result	Reporting Limit	MDL	Qual	Unit
Oil and Grease	<2.5	2.5	2.5		mg/L
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	04/18/2013 1500				

Semi-Volatiles by GC/MS ***EPA 3510C/EPA 8270D*** ***Batch: 13041808*** ***Run: 1***

	Result	Reporting Limit	MDL	Qual	Unit
2-Fluorophenol (% Recovery)	38.2	40-110			%
Nitrobenzene-d5 (% Recovery)	81.8	50-110			%
2-Fluorobiphenyl (% Recovery)	71.0	50-110			%
2,4,6-Tribromophenol (% Recovery)	89.6	40-110			%
Terphenyl-d14 (% Recovery)	80.1	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	<0.16	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	4/17/2013 2:57 PM			
Prep By	Ed Harris			
Prep Date/Time	4/17/2013 08:00			

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Client: Special Samples
Lab ID: 2013-1151
Client Sample ID: SAM 4-B/WS-016B
Collection Date: 4/16/2013 11:35:00 AM
Matrix: Water

Analyses

Oil and Grease ***EPA1664*** ***Batch: 13041810*** ***Run: 1***

	Result	Reporting Limit	MDL	Qual	Unit
Oil and Grease	<2.5	2.5	2.5		mg/L
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	04/18/2013 1500				

Semi-Volatiles by GC/MS ***EPA 3510C/EPA 8270D*** ***Batch: 13041808*** ***Run: 1***

	Result	Reporting Limit	MDL	Qual	Unit
2-Fluorophenol (% Recovery)	40.6	40-110			%
Nitrobenzene-d5 (% Recovery)	86.0	50-110			%
2-Fluorobiphenyl (% Recovery)	76.7	50-110			%
2,4,6-Tribromophenol (% Recovery)	71.5	40-110			%
Terphenyl-d14 (% Recovery)	66.1	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	<0.16	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	4/17/2013 3:27 PM			
Prep By	Ed Harris			
Prep Date/Time	4/17/2013 08:00			

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Client: Special Samples
Lab ID: 2013-1152
Client Sample ID: SAM 3-S/WS-015S
Collection Date: 4/16/2013 12:25:00 PM
Matrix: Water

Analyses

Oil and Grease ***EPA1664*** ***Batch: 13041810*** ***Run: 1***

	Result	Reporting Limit	MDL	Qual	Unit
Oil and Grease	<2.5	2.5	2.5		mg/L
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	04/18/2013 1500				

Semi-Volatiles by GC/MS ***EPA 3510C/EPA 8270D*** ***Batch: 13041808*** ***Run: 1***

	Result	Reporting Limit	MDL	Qual	Unit
2-Fluorophenol (% Recovery)	33.9	40-110			%
Nitrobenzene-d5 (% Recovery)	93.0	50-110			%
2-Fluorobiphenyl (% Recovery)	85.7	50-110			%
2,4,6-Tribromophenol (% Recovery)	87.1	40-110			%
Terphenyl-d14 (% Recovery)	78.6	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	<0.16	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	4/17/2013 3:56 PM			
Prep By	Ed Harris			
Prep Date/Time	4/17/2013 08:00			

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Client: Special Samples
Lab ID: 2013-1153
Client Sample ID: SAM 3-B/WS-015B
Collection Date: 4/16/2013 12:35:00 PM
Matrix: Water

Analyses

Oil and Grease ***EPA1664*** ***Batch: 13041810*** ***Run: 1***

	Result	Reporting Limit	MDL	Qual	Unit
Oil and Grease	<2.5	2.5	2.5		mg/L
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	04/18/2013 1500				

Semi-Volatiles by GC/MS ***EPA 3510C/EPA 8270D*** ***Batch: 13041808*** ***Run: 1***

	Result	Reporting Limit	MDL	Qual	Unit
2-Fluorophenol (% Recovery)	38.6	40-110			%
Nitrobenzene-d5 (% Recovery)	85.2	50-110			%
2-Fluorobiphenyl (% Recovery)	74.6	50-110			%
2,4,6-Tribromophenol (% Recovery)	84.0	40-110			%
Terphenyl-d14 (% Recovery)	83.4	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	<0.16	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	4/17/2013 4:25 PM			
Prep By	Ed Harris			
Prep Date/Time	4/17/2013 08:00			

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Client: Special Samples
Lab ID: 2013-1154
Client Sample ID: SAM 2-S/WS-014S
Collection Date: 4/16/2013 1:10:00 PM
Matrix: Water

Analyses

Oil and Grease ***EPA1664*** ***Batch: 13041810*** ***Run: 1***

	Result	Reporting Limit	MDL	Qual	Unit
Oil and Grease	<2.5	2.5	2.5		mg/L
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	04/18/2013 1500				

Semi-Volatiles by GC/MS ***EPA 3510C/EPA 8270D*** ***Batch: 13041808*** ***Run: 1***

	Result	Reporting Limit	MDL	Qual	Unit
2-Fluorophenol (% Recovery)	38.9	40-110			%
Nitrobenzene-d5 (% Recovery)	75.1	50-110			%
2-Fluorobiphenyl (% Recovery)	65.2	50-110			%
2,4,6-Tribromophenol (% Recovery)	78.9	40-110			%
Terphenyl-d14 (% Recovery)	72.9	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	<0.16	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	4/17/2013 6:12 PM			
Prep By	Ed Harris			
Prep Date/Time	4/17/2013 08:00			

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Client: Special Samples
Lab ID: 2013-1155
Client Sample ID: SAM 2-B/WS-014B
Collection Date: 4/16/2013 1:20:00 PM
Matrix: Water

Analyses

Oil and Grease ***EPA1664*** ***Batch: 13041810*** ***Run: 1***

	Result	Reporting Limit	MDL	Qual	Unit
Oil and Grease	<2.5	2.5	2.5		mg/L
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	04/18/2013 1500				

Semi-Volatiles by GC/MS ***EPA 3510C/EPA 8270D*** ***Batch: 13041808*** ***Run: 1***

	Result	Reporting Limit	MDL	Qual	Unit
2-Fluorophenol (% Recovery)	48.5	40-110			%
Nitrobenzene-d5 (% Recovery)	87.0	50-110			%
2-Fluorobiphenyl (% Recovery)	79.5	50-110			%
2,4,6-Tribromophenol (% Recovery)	80.6	40-110			%
Terphenyl-d14 (% Recovery)	76.4	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	<0.16	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	4/17/2013 8:10 PM			
Prep By	Ed Harris			
Prep Date/Time	4/17/2013 08:00			

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Client: Special Samples
Lab ID: 2013-1156
Client Sample ID: SAM 1-S/WS-013S
Collection Date: 4/16/2013 2:20:00 PM
Matrix: Water

Analyses

Oil and Grease ***EPA1664*** ***Batch: 13041810*** ***Run: 1***

	Result	Reporting Limit	MDL	Qual	Unit
Oil and Grease	<2.5	2.5	2.5		mg/L
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	04/18/2013 1500				

Semi-Volatiles by GC/MS ***EPA 3510C/EPA 8270D*** ***Batch: 13041808*** ***Run: 1***

	Result	Reporting Limit	MDL	Qual	Unit
2-Fluorophenol (% Recovery)	44.5	40-110			%
Nitrobenzene-d5 (% Recovery)	83.6	50-110			%
2-Fluorobiphenyl (% Recovery)	80.9	50-110			%
2,4,6-Tribromophenol (% Recovery)	83.7	40-110			%
Terphenyl-d14 (% Recovery)	67.8	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	<0.16	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	4/17/2013 8:40 PM			
Prep By	Ed Harris			
Prep Date/Time	4/17/2013 08:00			

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Client: Special Samples
Lab ID: 2013-1157
Client Sample ID: SAM 1-B/WS-013B
Collection Date: 4/16/2013 2:30:00 PM
Matrix: Water

Analyses

Oil and Grease ***EPA1664*** ***Batch: 13041810*** ***Run: 1***

	Result	Reporting Limit	MDL	Qual	Unit
Oil and Grease	<2.5	2.5	2.5		mg/L
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	04/18/2013 1500				

Semi-Volatiles by GC/MS ***EPA 3510C/EPA 8270D*** ***Batch: 13041808*** ***Run: 1***

	Result	Reporting Limit	MDL	Qual	Unit
2-Fluorophenol (% Recovery)	46.7	40-110			%
Nitrobenzene-d5 (% Recovery)	88.6	50-110			%
2-Fluorobiphenyl (% Recovery)	77.2	50-110			%
2,4,6-Tribromophenol (% Recovery)	72.9	40-110			%
Terphenyl-d14 (% Recovery)	81.5	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	<0.16	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	1.60	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	4/17/2013 9:09 PM			
Prep By	Ed Harris			
Prep Date/Time	4/17/2013 08:00			

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Client: Special Samples
Lab ID: 2013-1158
Client Sample ID: FWS 2-S/WS-011S
Collection Date: 4/16/2013 3:10:00 PM
Matrix: Water

Analyses

Oil and Grease ***EPA1664*** ***Batch: 13041810*** ***Run: 1***

	Result	Reporting Limit	MDL	Qual	Unit
Oil and Grease	<2.5	2.5	2.5		mg/L
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	04/18/2013 1500				

Semi-Volatiles by GC/MS ***EPA 3510C/EPA 8270D*** ***Batch: 13041808*** ***Run: 1***

	Result	Reporting Limit	MDL	Qual	Unit
2-Fluorophenol (% Recovery)	46.1	40-110			%
Nitrobenzene-d5 (% Recovery)	84.7	50-110			%
2-Fluorobiphenyl (% Recovery)	85.6	50-110			%
2,4,6-Tribromophenol (% Recovery)	71.6	40-110			%
Terphenyl-d14 (% Recovery)	77.2	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	<0.16	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	4/17/2013 9:39 PM			
Prep By	Ed Harris			
Prep Date/Time	4/17/2013 08:00			

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
Lab ID: 2013-1159
Client Sample ID: FWS 2-B/WS-011B
Collection Date: 4/16/2013 3:20:00 PM
Matrix: Water

Analyses

Oil and Grease ***EPA1664*** ***Batch: 13041810*** ***Run: 1***

	Result	Reporting Limit	MDL	Qual	Unit
Oil and Grease	<2.5	2.5	2.5		mg/L
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	04/18/2013 1500				

Semi-Volatiles by GC/MS ***EPA 3510C/EPA 8270D*** ***Batch: 13041808*** ***Run: 1***

	Result	Reporting Limit	MDL	Qual	Unit
2-Fluorophenol (% Recovery)	52.0	40-110			%
Nitrobenzene-d5 (% Recovery)	84.1	50-110			%
2-Fluorobiphenyl (% Recovery)	84.1	50-110			%
2,4,6-Tribromophenol (% Recovery)	76.8	40-110			%
Terphenyl-d14 (% Recovery)	81.5	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	<0.16	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	4/17/2013 10:09 PM			
Prep By	Ed Harris			
Prep Date/Time	4/17/2013 08:00			

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Client: Special Samples
Lab ID: 2013-1160
Client Sample ID: FWS 3-S/WS-012S
Collection Date: 4/16/2013 3:50:00 PM
Matrix: Water

Analyses

Oil and Grease ***EPA1664*** ***Batch: 13041810*** ***Run: 1***

	Result	Reporting Limit	MDL	Qual	Unit
Oil and Grease	<2.5	2.5	2.5		mg/L
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	04/18/2013 1500				

Semi-Volatiles by GC/MS ***EPA 3510C/EPA 8270D*** ***Batch: 13041808*** ***Run: 1***

	Result	Reporting Limit	MDL	Qual	Unit
2-Fluorophenol (% Recovery)	42.7	40-110			%
Nitrobenzene-d5 (% Recovery)	83.2	50-110			%
2-Fluorobiphenyl (% Recovery)	70.7	50-110			%
2,4,6-Tribromophenol (% Recovery)	67.0	40-110			%
Terphenyl-d14 (% Recovery)	77.1	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	<0.16	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	4/17/2013 10:38 PM			
Prep By	Ed Harris			
Prep Date/Time	4/17/2013 08:00			

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Client: Special Samples
Lab ID: 2013-1161
Client Sample ID: FWS 3-B/WS-012B
Collection Date: 4/16/2013 4:00:00 PM
Matrix: Water

Analyses

Oil and Grease ***EPA1664*** ***Batch: 13041810*** ***Run: 1***

	Result	Reporting Limit	MDL	Qual	Unit
Oil and Grease	<2.5	2.5	2.5		mg/L
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	04/18/2013 1500				

Semi-Volatiles by GC/MS ***EPA 3510C/EPA 8270D*** ***Batch: 13041812*** ***Run: 1***

	Result	Reporting Limit	MDL	Qual	Unit
2-Fluorophenol (% Recovery)	39.8	40-110			%
Nitrobenzene-d5 (% Recovery)	87.2	50-110			%
2-Fluorobiphenyl (% Recovery)	69.5	50-110			%
2,4,6-Tribromophenol (% Recovery)	68.9	40-110			%
Terphenyl-d14 (% Recovery)	75.8	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	<0.16	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	4/18/2013 10:05 AM			
Prep By	Ed Harris			
Prep Date/Time	4/17/2013 13:00			

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Laboratory Contact: Jeff Ruehr
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Client: Special Samples
Lab ID: 2013-1162
Client Sample ID: FWS 1-S/WS-010S
Collection Date: 4/16/2013 4:25:00 PM
Matrix: Water

Analyses

Oil and Grease ***EPA1664*** ***Batch: 13041810*** ***Run: 1***

	Result	Reporting Limit	MDL	Qual	Unit
Oil and Grease	<2.5	2.5	2.5		mg/L
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	04/18/2013 1500				

Semi-Volatiles by GC/MS ***EPA 3510C/EPA 8270D*** ***Batch: 13041812*** ***Run: 1***

	Result	Reporting Limit	MDL	Qual	Unit
2-Fluorophenol (% Recovery)	30.3	40-110			%
Nitrobenzene-d5 (% Recovery)	88.9	50-110			%
2-Fluorobiphenyl (% Recovery)	75.6	50-110			%
2,4,6-Tribromophenol (% Recovery)	53.8	40-110			%
Terphenyl-d14 (% Recovery)	74.2	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	<0.16	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	4/18/2013 10:34 AM			
Prep By	Ed Harris			
Prep Date/Time	4/17/2013 13:00			

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Client: Special Samples
Lab ID: 2013-1163
Client Sample ID: FW1 1-B/WS-010B
Collection Date: 4/16/2013 4:35:00 PM
Matrix: Water

Analyses

Oil and Grease ***EPA1664*** ***Batch: 13041810*** ***Run: 1***

	Result	Reporting Limit	MDL	Qual	Unit
Oil and Grease	<2.5	2.5	2.5		mg/L
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	04/18/2013 1500				

Semi-Volatiles by GC/MS ***EPA 3510C/EPA 8270D*** ***Batch: 13041812*** ***Run: 1***

	Result	Reporting Limit	MDL	Qual	Unit
2-Fluorophenol (% Recovery)	19.8	40-110			%
Nitrobenzene-d5 (% Recovery)	82.7	50-110			%
2-Fluorobiphenyl (% Recovery)	78.2	50-110			%
2,4,6-Tribromophenol (% Recovery)	30.7	40-110			%
Terphenyl-d14 (% Recovery)	70.0	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	<0.16	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	4/18/2013 11:03 AM			
Prep By	Ed Harris			
Prep Date/Time	4/17/2013 13:00			

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Client:	Special Samples	**Client Sample ID:**	SAM 5-S/WS-017S
Lab ID:	2013-1148	**Collection Date:**	4/16/2013 10:25:00 AM
		Matrix:	Water

Analyses

Turbidity ***EPA 180.1*** ***Batch: 13041802*** ***Run: 1***

	Result	Reporting Limit	MDL	Qual	Unit
Turbidity	8.55	0.02	0.02		NTU
Dilution Factor	1				
Analyzed By	Penny Semberski				
Analysis Date/Time	4/17/2013 12:17				

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Client:	Special Samples	**Client Sample ID:**	SAM 5-B/WS-017B
Lab ID:	2013-1149	**Collection Date:**	4/16/2013 10:35:00 AM
		Matrix:	Water

Analyses

Turbidity ***EPA 180.1*** ***Batch: 13041802*** ***Run: 1***

	Result	Reporting Limit	MDL	Qual	Unit
Turbidity	9.26	0.02	0.02		NTU
Dilution Factor	1				
Analyzed By	Penny Semberski				
Analysis Date/Time	4/17/2013 12:19				

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Client:	Special Samples	**Client Sample ID:**	SAM 4-S/WS-016S
Lab ID:	2013-1150	**Collection Date:**	4/16/2013 11:25:00 AM
		Matrix:	Water

Analyses

Turbidity ***EPA 180.1*** ***Batch: 13041802*** ***Run: 1***

	Result	Reporting Limit	MDL	Qual	Unit
Turbidity	9.98	0.02	0.02		NTU
Dilution Factor	1				
Analyzed By	Penny Semberski				
Analysis Date/Time	4/17/2013 12:22				

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Laboratory Contact: Jeff Ruehr
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Client:	Special Samples	**Client Sample ID:**	SAM 4-B/WS-016B
Lab ID:	2013-1151	**Collection Date:**	4/16/2013 11:35:00 AM
		Matrix:	Water

Analyses

Turbidity ***EPA 180.1*** ***Batch: 13041802*** ***Run: 1***

	Result	Reporting Limit	MDL	Qual	Unit
Turbidity	10.3	0.02	0.02		NTU
Dilution Factor	1				
Analyzed By	Penny Semberski				
Analysis Date/Time	4/17/2013 12:25				

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Client:	Special Samples	**Client Sample ID:**	SAM 3-S/WS-015S
Lab ID:	2013-1152	**Collection Date:**	4/16/2013 12:25:00 PM
		Matrix:	Water

Analyses

Turbidity ***EPA 180.1*** ***Batch: 13041802*** ***Run: 1***

	Result	Reporting Limit	MDL	Qual	Unit
Turbidity	9.56	0.02	0.02		NTU
Dilution Factor	1				
Analyzed By	Penny Semberski				
Analysis Date/Time	4/17/2013 12:29				

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Client:	Special Samples	**Client Sample ID:**	SAM 3-B/WS-015B
Lab ID:	2013-1153	**Collection Date:**	4/16/2013 12:35:00 PM
		Matrix:	Water

Analyses

Turbidity ***EPA 180.1*** ***Batch: 13041802*** ***Run: 1***

	Result	Reporting Limit	MDL	Qual	Unit
Turbidity	9.31	0.02	0.02		NTU
Dilution Factor	1				
Analyzed By	Angela H. Rice				
Analysis Date/Time	4/17/2013 12:34				

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Client:	Special Samples	**Client Sample ID:**	SAM 2-S/WS-014S
Lab ID:	2013-1154	**Collection Date:**	4/16/2013 1:10:00 PM
		Matrix:	Water

Analyses

Turbidity ***EPA 180.1*** ***Batch: 13041802*** ***Run: 1***

	Result	Reporting Limit	MDL	Qual	Unit
Turbidity	9.20	0.02	0.02		NTU
Dilution Factor	1				
Analyzed By	Angela H. Rice				
Analysis Date/Time	4/17/2013 12:37				

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Client:	Special Samples	**Client Sample ID:**	SAM 2-B/WS-014B
Lab ID:	2013-1155	**Collection Date:**	4/16/2013 1:20:00 PM
		Matrix:	Water

Analyses

Turbidity ***EPA 180.1*** ***Batch: 13041802*** ***Run: 1***

	Result	Reporting Limit	MDL	Qual	Unit
Turbidity	9.23	0.02	0.02		NTU
Dilution Factor	1				
Analyzed By	Angela H. Rice				
Analysis Date/Time	4/17/2013 12:42				

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Client:	Special Samples	**Client Sample ID:**	SAM 1-S/WS-013S
Lab ID:	2013-1156	**Collection Date:**	4/16/2013 2:20:00 PM
		Matrix:	Water

Analyses

Turbidity ***EPA 180.1*** ***Batch: 13041802*** ***Run: 1***

	Result	Reporting Limit	MDL	Qual	Unit
Turbidity	9.64	0.02	0.02		NTU
Dilution Factor	1				
Analyzed By	Angela H. Rice				
Analysis Date/Time	4/17/2013 12:44				

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Client:	Special Samples	**Client Sample ID:**	SAM 1-B/WS-013B
Lab ID:	2013-1157	**Collection Date:**	4/16/2013 2:30:00 PM
		Matrix:	Water

Analyses

Turbidity ***EPA 180.1*** ***Batch: 13041802*** ***Run: 1***

	Result	Reporting Limit	MDL	Qual	Unit
Turbidity	15.4	0.02	0.02		NTU
Dilution Factor	1				
Analyzed By	Angela H. Rice				
Analysis Date/Time	4/17/2013 12:49				

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Client:	Special Samples	**Client Sample ID:**	FWS 2-S/WS-011S
Lab ID:	2013-1158	**Collection Date:**	4/16/2013 3:10:00 PM
		Matrix:	Water

Analyses

Turbidity ***EPA 180.1*** ***Batch: 13041802*** ***Run: 1***

	Result	Reporting Limit	MDL	Qual	Unit
Turbidity	10.4	0.02	0.02		NTU
Dilution Factor	1				
Analyzed By	Angela H. Rice				
Analysis Date/Time	4/17/2013 12:51				

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Client:	Special Samples	**Client Sample ID:**	FWS 2-B/WS-011B
Lab ID:	2013-1159	**Collection Date:**	4/16/2013 3:20:00 PM
		Matrix:	Water

Analyses

Turbidity ***EPA 180.1*** ***Batch: 13041802*** ***Run: 1***

	Result	Reporting Limit	MDL	Qual	Unit
Turbidity	10.8	0.02	0.02		NTU
Dilution Factor	1				
Analyzed By	Angela H. Rice				
Analysis Date/Time	4/17/2013 12:53				

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Laboratory Contact: Jeff Ruehr
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Client:	Special Samples	**Client Sample ID:**	FWS 3-S/WS-012S
Lab ID:	2013-1160	**Collection Date:**	4/16/2013 3:50:00 PM
		Matrix:	Water

Analyses

Turbidity ***EPA 180.1*** ***Batch: 13041802*** ***Run: 1***

	Result	Reporting Limit	MDL	Qual	Unit
Turbidity	47.3	0.02	0.02		NTU
Dilution Factor	1				
Analyzed By	Angela H. Rice				
Analysis Date/Time	4/17/2013 12:57				

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Client:	Special Samples	**Client Sample ID:**	FWS 3-B/WS-012B
Lab ID:	2013-1161	**Collection Date:**	4/16/2013 4:00:00 PM
		Matrix:	Water

Analyses

Turbidity ***EPA 180.1*** ***Batch: 13041802*** ***Run: 1***

	Result	Reporting Limit	MDL	Qual	Unit
Turbidity	27.9	0.02	0.02		NTU
Dilution Factor	1				
Analyzed By	Angela H. Rice				
Analysis Date/Time	4/17/2013 12:59				

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Client:	Special Samples	**Client Sample ID:**	FWS 1-S/WS-010S
Lab ID:	2013-1162	**Collection Date:**	4/16/2013 4:25:00 PM
		Matrix:	Water

Analyses

Turbidity ***EPA 180.1*** ***Batch: 13041802*** ***Run: 1***

	Result	Reporting Limit	MDL	Qual	Unit
Turbidity	128	0.02	0.02		NTU
Dilution Factor	1				
Analyzed By	Angela H. Rice				
Analysis Date/Time	4/17/2013 13:01				

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Client:	Special Samples	**Client Sample ID:**	FW1 1-B/WS-010B
Lab ID:	2013-1163	**Collection Date:**	4/16/2013 4:35:00 PM
		Matrix:	Water

Analyses

Turbidity ***EPA 180.1*** ***Batch: 13041802*** ***Run: 1***

	Result	Reporting Limit	MDL	Qual	Unit
Turbidity	202	0.02	0.02		NTU
Dilution Factor	1				
Analyzed By	Angela H. Rice				
Analysis Date/Time	4/17/2013 13:04				

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

Laboratory Contact: Jeff Ruehr
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501-682-0955

Client: Special Samples
Lab ID: 2013-1148
Client Sample ID: SAM 5-S/WS-017S
Collection Date: 4/16/2013 10:25:00 AM
Matrix: Water

Analyses

Volatile Organics by GCMS ***EPA 8260C*** ***Batch: 13041803*** ***Run: 1***

	Result	Reporting Limit	MDL	Qual	Unit
Dibromofluoromethane (% Recovery)	95.5	70-130			%
1,2-Dichloroethane-d4 (% Recovery)	90.1	70-130			%
Toluene-d8 (% Recovery)	96.6	70-130			%
4-Bromofluorobenzene (% Recovery)	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

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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	1.05	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	4/17/2013 10:36 AM			

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

Laboratory Contact: Jeff Ruehr
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501-682-0955

Client: Special Samples
Lab ID: 2013-1149
Client Sample ID: SAM 5-B/WS-017B
Collection Date: 4/16/2013 10:35:00 AM
Matrix: Water

Analyses

Volatile Organics by GCMS ***EPA 8260C*** ***Batch: 13041803*** ***Run: 1***

	Result	Reporting Limit	MDL	Qual	Unit
Dibromofluoromethane (% Recovery)	99.3	70-130			%
1,2-Dichloroethane-d4 (% Recovery)	92.9	70-130			%
Toluene-d8 (% Recovery)	92.7	70-130			%
4-Bromofluorobenzene (% Recovery)	98.3	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

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Toluene	0.584	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	0.514	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	4/17/2013 11:01 AM			

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5301 Northshore Drive
North Liitle Rock, AR 72118

Laboratory Contact: Jeff Ruehr
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501-682-0955

Client: Special Samples
Lab ID: 2013-1150
Client Sample ID: SAM 4-S/WS-016S
Collection Date: 4/16/2013 11:25:00 AM
Matrix: Water

Analyses

Volatile Organics by GCMS ***EPA 8260C*** ***Batch: 13041803*** ***Run: 1***

	Result	Reporting Limit	MDL	Qual	Unit
Dibromofluoromethane (% Recovery)	95.9	70-130			%
1,2-Dichloroethane-d4 (% Recovery)	93.3	70-130			%
Toluene-d8 (% Recovery)	94.1	70-130			%
4-Bromofluorobenzene (% Recovery)	99.4	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

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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	1.04	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	4/17/2013 11:26 AM			

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

Laboratory Contact: Jeff Ruehr
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Client: Special Samples
Lab ID: 2013-1151
Client Sample ID: SAM 4-B/WS-016B
Collection Date: 4/16/2013 11:35:00 AM
Matrix: Water

Analyses

Volatile Organics by GCMS ***EPA 8260C*** ***Batch: 13041803*** ***Run: 1***

	Result	Reporting Limit	MDL	Qual	Unit
Dibromofluoromethane (% Recovery)	96.9	70-130			%
1,2-Dichloroethane-d4 (% Recovery)	94.4	70-130			%
Toluene-d8 (% Recovery)	93.7	70-130			%
4-Bromofluorobenzene (% Recovery)	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

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5301 Northshore Drive
North Liitle Rock, AR 72118

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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	4/17/2013 11:52 AM			

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501-682-0955

Client: Special Samples
Lab ID: 2013-1152
Client Sample ID: SAM 3-S/WS-015S
Collection Date: 4/16/2013 12:25:00 PM
Matrix: Water

Analyses

Volatile Organics by GCMS ***EPA 8260C*** ***Batch: 13041803*** ***Run: 1***

	Result	Reporting Limit	MDL	Qual	Unit
Dibromofluoromethane (% Recovery)	96.8	70-130			%
1,2-Dichloroethane-d4 (% Recovery)	91.0	70-130			%
Toluene-d8 (% Recovery)	92.4	70-130			%
4-Bromofluorobenzene (% Recovery)	97.8	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

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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	4/17/2013 12:17 PM			

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Client: Special Samples
Lab ID: 2013-1153
Client Sample ID: SAM 3-B/WS-015B
Collection Date: 4/16/2013 12:35:00 PM
Matrix: Water

Analyses

Volatile Organics by GCMS ***EPA 8260C*** ***Batch: 13041803*** ***Run: 1***

	Result	Reporting Limit	MDL	Qual	Unit
Dibromofluoromethane (% Recovery)	95.7	70-130			%
1,2-Dichloroethane-d4 (% Recovery)	91.2	70-130			%
Toluene-d8 (% Recovery)	91.7	70-130			%
4-Bromofluorobenzene (% Recovery)	96.6	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

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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	4/17/2013 12:42 PM			

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Client: Special Samples
Lab ID: 2013-1154
Client Sample ID: SAM 2-S/WS-014S
Collection Date: 4/16/2013 1:10:00 PM
Matrix: Water

Analyses

Volatile Organics by GCMS ***EPA 8260C*** ***Batch: 13041803*** ***Run: 1***

	Result	Reporting Limit	MDL	Qual	Unit
Dibromofluoromethane (% Recovery)	98.4	70-130			%
1,2-Dichloroethane-d4 (% Recovery)	92.6	70-130			%
Toluene-d8 (% Recovery)	96.1	70-130			%
4-Bromofluorobenzene (% Recovery)	106	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

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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	4/17/2013 1:07 PM			

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Laboratory Contact: Jeff Ruehr
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Client: Special Samples
Lab ID: 2013-1155
Client Sample ID: SAM 2-B/WS-014B
Collection Date: 4/16/2013 1:20:00 PM
Matrix: Water

Analyses

Volatile Organics by GCMS ***EPA 8260C*** ***Batch: 13041803*** ***Run: 1***

	Result	Reporting Limit	MDL	Qual	Unit
Dibromofluoromethane (% Recovery)	95.1	70-130			%
1,2-Dichloroethane-d4 (% Recovery)	89.9	70-130			%
Toluene-d8 (% Recovery)	91.4	70-130			%
4-Bromofluorobenzene (% Recovery)	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

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Toluene	0.583	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	4/17/2013 4:04 PM			

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Laboratory Contact: Jeff Ruehr
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Client: Special Samples
Lab ID: 2013-1156
Client Sample ID: SAM 1-S/WS-013S
Collection Date: 4/16/2013 2:20:00 PM
Matrix: Water

Analyses

Volatile Organics by GCMS ***EPA 8260C*** ***Batch: 13041803*** ***Run: 1***

	Result	Reporting Limit	MDL	Qual	Unit
Dibromofluoromethane (% Recovery)	97.8	70-130			%
1,2-Dichloroethane-d4 (% Recovery)	92.4	70-130			%
Toluene-d8 (% Recovery)	91.9	70-130			%
4-Bromofluorobenzene (% Recovery)	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

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North Liitle Rock, AR 72118

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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	4/17/2013 4:30 PM			

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Laboratory Contact: Jeff Ruehr
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501-682-0955

Client: Special Samples
Lab ID: 2013-1157

Client Sample ID: SAM 1-B/WS-013B
Collection Date: 4/16/2013 2:30:00 PM
Matrix: Water

Analyses

Volatile Organics by GCMS ***EPA 8260C*** ***Batch: 13041803*** ***Run: 1***

	Result	Reporting Limit	MDL	Qual	Unit
Dibromofluoromethane (% Recovery)	99.6	70-130			%
1,2-Dichloroethane-d4 (% Recovery)	92.3	70-130			%
Toluene-d8 (% Recovery)	93.3	70-130			%
4-Bromofluorobenzene (% Recovery)	99.8	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

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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	4/17/2013 4:55 PM			

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Client: Special Samples
Lab ID: 2013-1158

Client Sample ID: FWS 2-S/WS-011S
Collection Date: 4/16/2013 3:10:00 PM
Matrix: Water

Analyses

Volatile Organics by GCMS ***EPA 8260C*** ***Batch: 13041803*** ***Run: 1***

	Result	Reporting Limit	MDL	Qual	Unit
Dibromofluoromethane (% Recovery)	98.3	70-130			%
1,2-Dichloroethane-d4 (% Recovery)	91.7	70-130			%
Toluene-d8 (% Recovery)	91.4	70-130			%
4-Bromofluorobenzene (% Recovery)	97.8	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

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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	4/17/2013 5:20 PM			

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

Client: Special Samples
Lab ID: 2013-1159
Client Sample ID: FWS 2-B/WS-011B
Collection Date: 4/16/2013 3:20:00 PM
Matrix: Water

Analyses

Volatile Organics by GCMS ***EPA 8260C*** ***Batch: 13041803*** ***Run: 1***

	Result	Reporting Limit	MDL	Qual	Unit
Dibromofluoromethane (% Recovery)	99.4	70-130			%
1,2-Dichloroethane-d4 (% Recovery)	93.1	70-130			%
Toluene-d8 (% Recovery)	93.2	70-130			%
4-Bromofluorobenzene (% Recovery)	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

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North Liitle Rock, AR 72118

Laboratory Contact: Jeff Ruehr
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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	4/17/2013 5:46 PM			

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Laboratory Contact: Jeff Ruehr
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Client: Special Samples
Lab ID: 2013-1160
Client Sample ID: FWS 3-S/WS-012S
Collection Date: 4/16/2013 3:50:00 PM
Matrix: Water

Analyses

Volatile Organics by GCMS ***EPA 8260C*** ***Batch: 13041803*** ***Run: 1***

	Result	Reporting Limit	MDL	Qual	Unit
Dibromofluoromethane (% Recovery)	98.2	70-130			%
1,2-Dichloroethane-d4 (% Recovery)	92.2	70-130			%
Toluene-d8 (% Recovery)	92.0	70-130			%
4-Bromofluorobenzene (% Recovery)	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

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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	4/17/2013 18:11			

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Client: Special Samples
Lab ID: 2013-1161
Client Sample ID: FWS 3-B/WS-012B
Collection Date: 4/16/2013 4:00:00 PM
Matrix: Water

Analyses

Volatile Organics by GCMS ***EPA 8260C*** ***Batch: 13041803*** ***Run: 1***

	Result	Reporting Limit	MDL	Qual	Unit
Dibromofluoromethane (% Recovery)	100	70-130			%
1,2-Dichloroethane-d4 (% Recovery)	95.6	70-130			%
Toluene-d8 (% Recovery)	94.3	70-130			%
4-Bromofluorobenzene (% Recovery)	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

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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	4/17/2013 8:18 PM			

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Client: Special Samples
Lab ID: 2013-1162

Client Sample ID: FWS 1-S/WS-010S
Collection Date: 4/16/2013 4:25:00 PM
Matrix: Water

Analyses

Volatile Organics by GCMS ***EPA 8260C*** ***Batch: 13041803*** ***Run: 1***

	Result	Reporting Limit	MDL	Qual	Unit
Dibromofluoromethane (% Recovery)	98.1	70-130			%
1,2-Dichloroethane-d4 (% Recovery)	91.9	70-130			%
Toluene-d8 (% Recovery)	93.5	70-130			%
4-Bromofluorobenzene (% Recovery)	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

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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	4/17/2013 8:43 PM			

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Client: Special Samples
Lab ID: 2013-1163
Client Sample ID: FW1 1-B/WS-010B
Collection Date: 4/16/2013 4:35:00 PM
Matrix: Water

Analyses

Volatile Organics by GCMS ***EPA 8260C*** ***Batch: 13041803*** ***Run: 1***

	Result	Reporting Limit	MDL	Qual	Unit
Dibromofluoromethane (% Recovery)	100	70-130			%
1,2-Dichloroethane-d4 (% Recovery)	94.1	70-130			%
Toluene-d8 (% Recovery)	95.1	70-130			%
4-Bromofluorobenzene (% Recovery)	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

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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	4/17/2013 9:08 PM			

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Laboratory Contact: Jeff Ruehr
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Client: Special Samples
Lab ID: 2013-1165
Client Sample ID: Volatile Trip Blank
Collection Date: 4/16/2013 1:10:00 PM
Matrix: Water

Analyses

Volatile Organics by GCMS ***EPA 8260C*** ***Batch: 13041803*** ***Run: 1***

	Result	Reporting Limit	MDL	Qual	Unit
Dibromofluoromethane (% Recovery)	96.7	70-130			%
1,2-Dichloroethane-d4 (% Recovery)	92.3	70-130			%
Toluene-d8 (% Recovery)	92.4	70-130			%
4-Bromofluorobenzene (% Recovery)	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

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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	4/17/2013 9:33 PM			

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Analytical Quality Control Results Report

Batch: 13041812	Semi-VOA water (Prep)
MB	LIMS ID: 13041812-MB-01

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	4/17/2013 13:00				
2-Fluorophenol (% Recovery)	34.7 %			40 - 110	
Nitrobenzene-d5 (% Recovery)	85.2 %			40 - 125	
2-Fluorobiphenyl (% Recovery)	76.6 %			40 - 125	
2,4,6-Tribromophenol (% Recovery)	79.6 %			40 - 125	
Terphenyl-d14 (% Recovery)	78.4 %			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	<0.16 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		

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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
Phenanthrene	<0.08 ug/L	0.08	0.08
Anthracene	<0.08 ug/L	0.08	0.08

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Carbazole	<0.1 ug/L	0.1	0.1	
Di-n-butyl phthalate	0.697 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	4/17/2013 23:08			

LCS ***LIMS ID: 13041812-LCS-01***

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	4/17/2013 13:00				
2-Fluorophenol (% Recovery)	31.5 %			40 - 110	
Nitrobenzene-d5 (% Recovery)	88.4 %			50 - 125	
2-Fluorobiphenyl (% Recovery)	71.6 %			50 - 125	
2,4,6-Tribromophenol (% Recovery)	83.8 %			40 - 125	
Terphenyl-d14 (% Recovery)	85.7 %			50 - 125	
Methyl Methanesulfonate (% Recovery)	54.0 %			50 - 150	
Ethyl methanesulfonate (% Recovery)	79.2 %			50 - 150	
Phenol (% Recovery)	27.5 %			50 - 150	
Aniline (% Recovery)	55.8 %			50 - 150	
Bis(2-chloroethyl)ether (% Recovery)	88.7 %			50 - 150	

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2-Chlorophenol (% Recovery)	81.6 %	50 - 150
1,3-Dichlorobenzene (% Recovery)	69.4 %	50 - 150
1,4-Dichlorobenzene (% Recovery)	66.6 %	50 - 150
Benzyl alcohol (% Recovery)	74.3 %	50 - 150
1,2-Dichlorobenzene (% Recovery)	73.2 %	50 - 150
2-Methylphenol (% Recovery)	67.6 %	50 - 150
Acetophenone (% Recovery)	105 %	50 - 150
4-Methylphenol (% Recovery)	53.1 %	50 - 150
N-Nitrosodi-n-propylamine (% Recovery)	104 %	50 - 150
Hexachloroethane (% Recovery)	72.2 %	50 - 150
Nitrobenzene (% Recovery)	103 %	50 - 150
N-Nitrosopiperidine (% Recovery)	103 %	50 - 150
Isophorone (% Recovery)	104 %	50 - 150
2-Nitrophenol (% Recovery)	109 %	50 - 150
2,4-Dimethylphenol (% Recovery)	10.1 %	50 - 150
Bis(2-chloroethoxy)methane (% Recovery)	80.6 %	50 - 150
2,4-Dichlorophenol (% Recovery)	98.2 %	50 - 150
1,2,4-Trichlorobenzene (% Recovery)	85.4 %	50 - 150
Naphthalene (% Recovery)	95.5 %	50 - 150
4-Chloroaniline (% Recovery)	88.4 %	50 - 150
2,6-Dichlorophenol (% Recovery)	103 %	50 - 150
Hexachlorobutadiene (% Recovery)	67.6 %	50 - 150
N-Nitrosodibutylamine (% Recovery)	106 %	50 - 150
4-Chloro-3-methylphenol (% Recovery)	91.8 %	50 - 150
2-Methylnaphthalene (% Recovery)	97.6 %	50 - 150
1,2,4,5-Tetrachlorobenzene (% Recovery)	80.4 %	50 - 150
Hexachlorocyclopentadiene (% Recovery)	58.9 %	50 - 150
2,4,6-Trichlorophenol (% Recovery)	96.7 %	50 - 150
2,4,5-Trichlorophenol (% Recovery)	92.9 %	50 - 150
2-Chloronaphthalene (% Recovery)	83.8 %	50 - 150
1-Chloronaphthalene (% Recovery)	81.7 %	50 - 150
2-Nitroaniline (% Recovery)	98.3 %	50 - 150
Dimethyl phthalate (% Recovery)	58.2 %	50 - 150
2,6-Dinitrotoluene (% Recovery)	89.6 %	50 - 150
Acenaphthylene (% Recovery)	94.6 %	50 - 150
3-Nitroaniline (% Recovery)	91.4 %	50 - 150
Acenaphthene (% Recovery)	92.0 %	50 - 150
2,4-Dinitrophenol (% Recovery)	81.3 %	50 - 150
Pentachlorobenzene (% Recovery)	83.3 %	50 - 150
4-Nitrophenol (% Recovery)	31.0 %	50 - 150

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Dibenzofuran (% Recovery)	93.2 %	50 - 150
2,4-Dinitrotoluene (% Recovery)	97.5 %	50 - 150
2,3,4,6-Tetrachlorophenol (% Recovery)	94.7 %	50 - 150
Diethyl phthalate (% Recovery)	92.3 %	50 - 150
Fluorene (% Recovery)	92.7 %	50 - 150
4-Chlorophenyl phenyl ether (% Recovery)	96.1 %	50 - 150
4-Nitroaniline (% Recovery)	92.3 %	50 - 150
4,6-Dinitro-2-methylphenol (% Recovery)	102 %	50 - 150
Diphenylamine (% Recovery)	106 %	50 - 150
Azobenzene (% Recovery)	98.0 %	50 - 150
4-Bromophenyl phenyl ether (% Recovery)	92.1 %	50 - 150
Hexachlorobenzene (% Recovery)	86.9 %	50 - 150
Pentachlorophenol (% Recovery)	100 %	50 - 150
Pentachloronitrobenzene (% Recovery)	96.9 %	50 - 150
Pronamide (% Recovery)	108 %	50 - 150
Phenanthrene (% Recovery)	99.8 %	50 - 150
Anthracene (% Recovery)	97.3 %	50 - 150
Carbazole (% Recovery)	106 %	50 - 150
Di-n-butyl phthalate (% Recovery)	153 %	50 - 150
Fluoranthene (% Recovery)	110 %	50 - 150
Pyrene (% Recovery)	101 %	50 - 150
Dimethylaminoazobenzene (% Recovery)	105 %	50 - 150
Butyl benzyl phthalate (% Recovery)	87.6 %	50 - 150
Benzo (a) anthracene (% Recovery)	97.6 %	50 - 150
Chrysene (% Recovery)	106 %	50 - 150
Bis(2-ethylhexyl)phthalate (% Recovery)	107 %	50 - 150
Di-n-octyl phthalate (% Recovery)	104 %	50 - 150
Benzo (b) fluoranthene (% Recovery)	100 %	50 - 150
7,12-Dimethylbenz (a) anthracene (% Recovery)	82.5 %	50 - 150
Benzo (k) fluoranthene (% Recovery)	101 %	50 - 150
Benzo (a) pyrene (% Recovery)	94.2 %	50 - 150
3-Methylcholanthrene (% Recovery)	87.1 %	50 - 150
Indeno (1,2,3-cd) pyrene (% Recovery)	88.3 %	50 - 150
Dibenzo (a,h) anthracene (% Recovery)	89.1 %	50 - 150
Benzo (g,h,i) perylene (% Recovery)	80.8 %	50 - 150
Dilution Factor	1	
Analyzed By	Ed Harris	
Analysis Date/Time	4/18/2013 9:35	

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Analytical Quality Control Results Report

Batch: 13041808	Semi-VOA water (Prep)
SAM 2-S/WS-014S	LIMS ID: 2013-1154

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	4/17/2013 08:00				
2-Fluorophenol (% Recovery)	40.9 %			40 - 110	
Nitrobenzene-d5 (% Recovery)	85.2 %			40 - 125	
2-Fluorobiphenyl (% Recovery)	74.4 %			40 - 110	
2,4,6-Tribromophenol (% Recovery)	73.3 %			40 - 110	
Terphenyl-d14 (% Recovery)	74.7 %			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)	58.1 %				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	<0.16 ug/L	0.16	0.16		
Benzyl alcohol (RPD)	15.5 %				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)	0 %				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)	200 %				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 (RPD)	0 %				0 - 40
Hexachlorobutadiene	<0.2 ug/L	0.2	0.2		
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	<0.1 ug/L	0.1	0.1		
1,2,4,5-Tetrachlorobenzene (RPD)	0 %				0 - 40
Hexachlorocyclopentadiene (RPD)	0 %				0 - 40
Hexachlorocyclopentadiene	<0.16 ug/L	0.16	0.16		

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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)	0 %				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)	200 %				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

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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)	26.8 %				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)	84.4 %				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)	18.0 %				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	4/17/2013 6:42 PM				

SAM 2-S/WS-014S ***LIMS ID: 2013-1154***

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	4/17/2013 08:00				
2-Fluorophenol (% Recovery)	36.0 %			40 - 110	
Nitrobenzene-d5 (% Recovery)	83.9 %			40 - 125	
2-Fluorobiphenyl (% Recovery)	71.8 %			40 - 125	
2,4,6-Tribromophenol (% Recovery)	81.6 %			40 - 125	
Terphenyl-d14 (% Recovery)	75.9 %			40 - 125	
Phenol (% Recovery)	17.8 %			25 - 125	
2-Chlorophenol (% Recovery)	49.3 %			25 - 125	
1,4-Dichlorobenzene (% Recovery)	63.4 %			25 - 125	
N-Nitrosodi-n-propylamine (% Recovery)	91.7 %			25 - 125	
1,2,4-Trichlorobenzene (% Recovery)	82.2 %			25 - 125	
4-Chloro-3-methylphenol (% Recovery)	50.6 %			25 - 125	
Acenaphthene (% Recovery)	85.3 %			25 - 125	

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4-Nitrophenol (% Recovery)	22.1 %	25 - 125	
2,4-Dinitrotoluene (% Recovery)	82.7 %	25 - 125	
Pentachlorophenol (% Recovery)	75.0 %	25 - 125	
Pyrene (% Recovery)	83.8 %	25 - 125	
Dilution Factor	1		
Analyzed By	Ed Harris		
Analysis Date/Time	4/17/2013 7:11 PM		

SAM 2-S/WS-014S ***LIMS ID: 2013-1154***

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	4/17/2013 08:00				
2-Fluorophenol (% Recovery)	45.6 %			40 - 110	
Nitrobenzene-d5 (% Recovery)	84.4 %			40 - 125	
2-Fluorobiphenyl (% Recovery)	79.2 %			40 - 125	
2,4,6-Tribromophenol (% Recovery)	75.6 %			40 - 125	
Terphenyl-d14 (% Recovery)	80.4 %			40 - 125	
Phenol (% Recovery)	22.1 %			25 - 125	
Phenol (RPD)	21.4 %				0 - 40
2-Chlorophenol (% Recovery)	54.6 %			25 - 125	
2-Chlorophenol (RPD)	10.0 %				0 - 40
1,4-Dichlorobenzene (RPD)	24.9 %				0 - 40
1,4-Dichlorobenzene (% Recovery)	81.4 %			25 - 125	
N-Nitrosodi-n-propylamine (% Recovery)	91.1 %			25 - 125	
N-Nitrosodi-n-propylamine (RPD)	0.7 %				0 - 40
1,2,4-Trichlorobenzene (RPD)	3.6 %				0 - 40
1,2,4-Trichlorobenzene (% Recovery)	85.1 %			25 - 125	
4-Chloro-3-methylphenol (% Recovery)	48.3 %			25 - 125	
4-Chloro-3-methylphenol (RPD)	4.7 %				0 - 40
Acenaphthene (% Recovery)	86.5 %			25 - 125	
Acenaphthene (RPD)	1.3 %				0 - 40
4-Nitrophenol (% Recovery)	24.4 %			25 - 125	
4-Nitrophenol (RPD)	9.8 %				0 - 40
2,4-Dinitrotoluene (% Recovery)	79.7 %			25 - 125	
2,4-Dinitrotoluene (RPD)	3.6 %				0 - 40
Pentachlorophenol (% Recovery)	72.1 %			25 - 125	

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Pentachlorophenol (RPD)	3.9 %		0 - 40
Pyrene (% Recovery)	86.2 %	25 - 125	
Pyrene (RPD)	2.8 %		0 - 40
Dilution Factor	1		
Analyzed By	Ed Harris		
Analysis Date/Time	4/17/2013 7:41 PM		

MB ***LIMS ID: 13041808-MB-01***

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	4/17/2013 08:00				
2-Fluorophenol (% Recovery)	37.7 %			40 - 110	
Nitrobenzene-d5 (% Recovery)	82.3 %			40 - 125	
2-Fluorobiphenyl (% Recovery)	78.7 %			40 - 125	
2,4,6-Tribromophenol (% Recovery)	73.6 %			40 - 125	
Terphenyl-d14 (% Recovery)	87.8 %			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	<0.16 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		

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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	0.563 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	4/17/2013 13:01			

LCS ***LIMS ID: 13041808-LCS-01***

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	4/17/2013 08:00				
2-Fluorophenol (% Recovery)	32.7 %			40 - 110	
Nitrobenzene-d5 (% Recovery)	81.5 %			50 - 125	
2-Fluorobiphenyl (% Recovery)	65.7 %			50 - 125	
2,4,6-Tribromophenol (% Recovery)	77.3 %			40 - 125	
Terphenyl-d14 (% Recovery)	86.0 %			50 - 125	
Methyl Methanesulfonate (% Recovery)	60.2 %			50 - 150	
Ethyl methanesulfonate (% Recovery)	96.1 %			50 - 150	
Phenol (% Recovery)	32.7 %			50 - 150	

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Aniline (% Recovery)	62.7 %	50 - 150
Bis(2-chloroethyl)ether (% Recovery)	101 %	50 - 150
2-Chlorophenol (% Recovery)	89.3 %	50 - 150
1,3-Dichlorobenzene (% Recovery)	73.5 %	50 - 150
1,4-Dichlorobenzene (% Recovery)	70.9 %	50 - 150
Benzyl alcohol (% Recovery)	81.7 %	50 - 150
1,2-Dichlorobenzene (% Recovery)	74.7 %	50 - 150
2-Methylphenol (% Recovery)	77.0 %	50 - 150
Acetophenone (% Recovery)	99.7 %	50 - 150
4-Methylphenol (% Recovery)	65.3 %	50 - 150
N-Nitrosodi-n-propylamine (% Recovery)	98.7 %	50 - 150
Hexachloroethane (% Recovery)	66.4 %	50 - 150
Nitrobenzene (% Recovery)	100 %	50 - 150
N-Nitrosopiperidine (% Recovery)	106 %	50 - 150
Isophorone (% Recovery)	102 %	50 - 150
2-Nitrophenol (% Recovery)	101 %	50 - 150
2,4-Dimethylphenol (% Recovery)	8.7 %	50 - 150
Bis(2-chloroethoxy)methane (% Recovery)	80.3 %	50 - 150
2,4-Dichlorophenol (% Recovery)	99.5 %	50 - 150
1,2,4-Trichlorobenzene (% Recovery)	79.1 %	50 - 150
Naphthalene (% Recovery)	87.1 %	50 - 150
4-Chloroaniline (% Recovery)	89.1 %	50 - 150
2,6-Dichlorophenol (% Recovery)	102 %	50 - 150
Hexachlorobutadiene (% Recovery)	64.4 %	50 - 150
N-Nitrosodibutylamine (% Recovery)	106 %	50 - 150
4-Chloro-3-methylphenol (% Recovery)	90.4 %	50 - 150
2-Methylnaphthalene (% Recovery)	92.0 %	50 - 150
1,2,4,5-Tetrachlorobenzene (% Recovery)	80.8 %	50 - 150
Hexachlorocyclopentadiene (% Recovery)	69.1 %	50 - 150
2,4,6-Trichlorophenol (% Recovery)	117 %	50 - 150
2,4,5-Trichlorophenol (% Recovery)	99.5 %	50 - 150
2-Chloronaphthalene (% Recovery)	87.3 %	50 - 150
1-Chloronaphthalene (% Recovery)	86.2 %	50 - 150
2-Nitroaniline (% Recovery)	103 %	50 - 150
Dimethyl phthalate (% Recovery)	97.9 %	50 - 150
2,6-Dinitrotoluene (% Recovery)	101 %	50 - 150
Acenaphthylene (% Recovery)	96.2 %	50 - 150
3-Nitroaniline (% Recovery)	102 %	50 - 150
Acenaphthene (% Recovery)	92.8 %	50 - 150
2,4-Dinitrophenol (% Recovery)	108 %	50 - 150

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Pentachlorobenzene (% Recovery)	87.6 %	50 - 150
4-Nitrophenol (% Recovery)	36.4 %	50 - 150
Dibenzofuran (% Recovery)	98.8 %	50 - 150
2,4-Dinitrotoluene (% Recovery)	103 %	50 - 150
2,3,4,6-Tetrachlorophenol (% Recovery)	97.0 %	50 - 150
Diethyl phthalate (% Recovery)	111 %	50 - 150
Fluorene (% Recovery)	94.6 %	50 - 150
4-Chlorophenyl phenyl ether (% Recovery)	97.1 %	50 - 150
4-Nitroaniline (% Recovery)	105 %	50 - 150
4,6-Dinitro-2-methylphenol (% Recovery)	102 %	50 - 150
Diphenylamine (% Recovery)	92.2 %	50 - 150
Azobenzene (% Recovery)	92.0 %	50 - 150
4-Bromophenyl phenyl ether (% Recovery)	88.4 %	50 - 150
Hexachlorobenzene (% Recovery)	93.7 %	50 - 150
Pentachlorophenol (% Recovery)	98.8 %	50 - 150
Pentachloronitrobenzene (% Recovery)	95.0 %	50 - 150
Pronamide (% Recovery)	105 %	50 - 150
Phenanthrene (% Recovery)	94.0 %	50 - 150
Anthracene (% Recovery)	99.8 %	50 - 150
Carbazole (% Recovery)	102 %	50 - 150
Di-n-butyl phthalate (% Recovery)	136 %	50 - 150
Fluoranthene (% Recovery)	103 %	50 - 150
Pyrene (% Recovery)	98.0 %	50 - 150
Dimethylaminoazobenzene (% Recovery)	100 %	50 - 150
Butyl benzyl phthalate (% Recovery)	105 %	50 - 150
Benzo (a) anthracene (% Recovery)	104 %	50 - 150
Chrysene (% Recovery)	112 %	50 - 150
Bis(2-ethylhexyl)phthalate (% Recovery)	103 %	50 - 150
Di-n-octyl phthalate (% Recovery)	99.2 %	50 - 150
Benzo (b) fluoranthene (% Recovery)	113 %	50 - 150
7,12-Dimethylbenz (a) anthracene (% Recovery)	96.5 %	50 - 150
Benzo (k) fluoranthene (% Recovery)	101 %	50 - 150
Benzo (a) pyrene (% Recovery)	108 %	50 - 150
3-Methylcholanthrene (% Recovery)	104 %	50 - 150
Indeno (1,2,3-cd) pyrene (% Recovery)	114 %	50 - 150
Dibenzo (a,h) anthracene (% Recovery)	114 %	50 - 150
Benzo (g,h,i) perylene (% Recovery)	116 %	50 - 150
Dilution Factor	1	
Analyzed By	Ed Harris	
Analysis Date/Time	4/17/2013 13:30	

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Analytical Quality Control Results Report

Batch: 13041803	VOA - water
SAM 2-S/WS-014S	LIMS ID: 2013-1154

Volatiles - water DUP — *Run: 1*

Parameter	Result	DL	RL	Accuracy Control	Precision Control
Dibromofluoromethane (% Recovery)	99.4 %			70 - 130	
1,2-Dichloroethane-d4 (% Recovery)	92.0 %			70 - 130	
Toluene-d8 (% Recovery)	94.6 %			70 - 130	
4-Bromofluorobenzene (% Recovery)	103 %			70 - 130	
Dichlorodifluoromethane	<1.12 ug/L	1.12	1.12		
Dichlorodifluoromethane (RPD)	0 %				0 - 20
Chloromethane (RPD)	0 %				0 - 20
Chloromethane	<0.58 ug/L	0.58	0.58		
Vinyl chloride	<0.82 ug/L	0.82	0.82		
Vinyl chloride (RPD)	0 %				0 - 20
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	<0.43 ug/L	0.43	0.43		
1,1-Dichloroethene (RPD)	0 %				0 - 20
Acetone	<10.5 ug/L	10.5	10.5		
Acetone (RPD)	200 %				0 - 20
Methylene chloride (RPD)	0 %				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 (RPD)	0 %				0 - 20
1,1-Dichloroethane	<0.42 ug/L	0.42	0.42		
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

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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	<0.59 ug/L	0.59	0.59		
1,1-Dichloropropene (RPD)	0 %				0 - 20
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	<0.57 ug/L	0.57	0.57		
Toluene (RPD)	0 %				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	<0.96 ug/L	0.96	0.96		
Tetrachloroethene (RPD)	0 %				0 - 20
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		

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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 (RPD)	0 %				0 - 20
1,1,1,2-Tetrachloroethane	<0.57 ug/L	0.57	0.57		
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 (RPD)	0 %				0 - 20
Styrene	<0.53 ug/L	0.53	0.53		
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 (RPD)	0 %				0 - 20
n-Propylbenzene	<0.49 ug/L	0.49	0.49		
Bromobenzene	<0.5 ug/L	0.5	0.5		
Bromobenzene (RPD)	0 %				0 - 20
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 (RPD)	0 %				0 - 20
4-Chlorotoluene	<0.8 ug/L	0.8	0.8		
tert-Butylbenzene	<0.85 ug/L	0.85	0.85		
tert-Butylbenzene (RPD)	0 %				0 - 20
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 (RPD)	0 %				0 - 20
1,3-Dichlorobenzene	<0.7 ug/L	0.7	0.7		
1,4-Dichlorobenzene	<0.53 ug/L	0.53	0.53		
1,4-Dichlorobenzene (RPD)	0 %				0 - 20
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	<1.3 ug/L	1.3	1.3		
1,2,3-Trichlorobenzene (RPD)	0 %				0 - 20
Dilution Factor	1				
Analyzed By	Jeff Ruehr				
Analysis Date/Time	4/17/2013 1:33 PM				

SAM 2-S/WS-014S ***LIMS ID: 2013-1154***

Volatiles - water MS ***Run: 1***

Parameter	***Result***	***DL***	***RL***	***Accuracy Control***	***Precision Control***
Dibromofluoromethane (% Recovery)	95.7 %			70 - 130	
1,2-Dichloroethane-d4 (% Recovery)	93.2 %			70 - 130	
Toluene-d8 (% Recovery)	91.9 %			70 - 130	
4-Bromofluorobenzene (% Recovery)	100 %			70 - 130	
1,1-Dichloroethene (% Recovery)	96.6 %			70 - 130	
Benzene (% Recovery)	97.1 %			70 - 130	
Trichloroethene (% Recovery)	92.0 %			70 - 130	
Toluene (% Recovery)	90.1 %			70 - 130	
Chlorobenzene (% Recovery)	95.5 %			70 - 130	
Dilution Factor	1				
Analyzed By	Jeff Ruehr				
Analysis Date/Time	4/17/2013 15:14				

SAM 2-S/WS-014S ***LIMS ID: 2013-1154***

Volatiles - water MSD ***Run: 1***

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Parameter	Result	DL	RL	Accuracy Control	Precision Control
Dibromofluoromethane (% Recovery)	96.0 %			70 - 130	
1,2-Dichloroethane-d4 (% Recovery)	91.9 %			70 - 130	
Toluene-d8 (% Recovery)	90.9 %			70 - 130	
4-Bromofluorobenzene (% Recovery)	96.3 %			70 - 130	
1,1-Dichloroethene (% Recovery)	97.0 %			70 - 130	
1,1-Dichloroethene (RPD)	0.4 %				0 - 20
Benzene (RPD)	2.0 %				0 - 20
Benzene (% Recovery)	95.2 %			70 - 130	
Trichloroethene (% Recovery)	90.7 %			70 - 130	
Trichloroethene (RPD)	1.3 %				0 - 20
Toluene (% Recovery)	86.3 %			70 - 130	
Toluene (RPD)	4.4 %				0 - 20
Chlorobenzene (% Recovery)	88.2 %			70 - 130	
Chlorobenzene (RPD)	8.0 %				0 - 20
Dilution Factor	1				
Analyzed By	Jeff Ruehr				
Analysis Date/Time	4/17/2013 2:23 PM				

LCS ***LIMS ID: 13041803-LCS-01***

Volatiles - water LCS ***Run: 1***

Parameter	Result	DL	RL	Accuracy Control	Precision Control
Dibromofluoromethane (% Recovery)	102 %			70 - 130	
1,2-Dichloroethane-d4 (% Recovery)	102 %			70 - 130	
Toluene-d8 (% Recovery)	101 %			70 - 130	
4-Bromofluorobenzene (% Recovery)	104 %			70 - 130	
Dichlorodifluoromethane (% Recovery)	85.1 %			60 - 130	
Chloromethane (% Recovery)	93.2 %			60 - 130	
Vinyl chloride (% Recovery)	96.7 %			60 - 130	
Bromomethane (% Recovery)	71.5 %			60 - 130	
Chloroethane (% Recovery)	69.8 %			60 - 130	
Trichlorofluoromethane (% Recovery)	99.2 %			60 - 130	
1,1-Dichloroethene (% Recovery)	101 %			60 - 130	
Acetone (% Recovery)	102 %			60 - 130	
Methylene chloride (% Recovery)	104 %			60 - 130	
Methyl tert-butyl ether (% Recovery)	102 %			60 - 130	
trans-1,2-Dichloroethene (% Recovery)	103 %			60 - 130	
1,1-Dichloroethane (% Recovery)	104 %			60 - 130	

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Methyl ethyl ketone (% Recovery)	103 %	60 - 130
cis-1,2-Dichloroethene (% Recovery)	105 %	60 - 130
2,2-Dichloropropane (% Recovery)	104 %	60 - 130
Bromochloromethane (% Recovery)	106 %	60 - 130
Chloroform (% Recovery)	104 %	60 - 130
1,1,1-Trichloroethane (% Recovery)	104 %	60 - 130
1,1-Dichloropropene (% Recovery)	100 %	60 - 130
Carbon tetrachloride (% Recovery)	103 %	60 - 130
Benzene (% Recovery)	104 %	60 - 130
1,2-Dichloroethane (% Recovery)	104 %	60 - 130
Trichloroethene (% Recovery)	103 %	60 - 130
1,2-Dichloropropane (% Recovery)	102 %	60 - 130
Dibromomethane (% Recovery)	103 %	60 - 130
Bromodichloromethane (% Recovery)	104 %	60 - 130
cis-1,3-Dichloropropene (% Recovery)	101 %	60 - 130
Methyl isobutyl ketone (% Recovery)	102 %	60 - 130
Toluene (% Recovery)	101 %	60 - 130
trans-1,3-Dichloropropene (% Recovery)	100 %	60 - 130
1,1,2-Trichloroethane (% Recovery)	102 %	60 - 130
2-Hexanone (% Recovery)	105 %	60 - 130
Tetrachloroethene (% Recovery)	104 %	60 - 130
1,3-Dichloropropane (% Recovery)	103 %	60 - 130
Dibromochloromethane (% Recovery)	101 %	60 - 130
1,2-Dibromoethane (EDB) (% Recovery)	103 %	60 - 130
Chlorobenzene (% Recovery)	103 %	60 - 130
Ethylbenzene (% Recovery)	98.6 %	60 - 130
1,1,1,2-Tetrachloroethane (% Recovery)	105 %	60 - 130
m,p-Xylene (% Recovery)	97.2 %	60 - 130
o-Xylene (% Recovery)	103 %	60 - 130
Styrene (% Recovery)	99.3 %	60 - 130
Bromoform (% Recovery)	101 %	60 - 130
Isopropylbenzene (% Recovery)	102 %	60 - 130
1,1,2,2-Tetrachloroethane (% Recovery)	104 %	60 - 130
1,2,3-Trichloropropane (% Recovery)	106 %	60 - 130
n-Propylbenzene (% Recovery)	96.6 %	60 - 130
Bromobenzene (% Recovery)	99.3 %	60 - 130
1,3,5-Trimethylbenzene (% Recovery)	102 %	60 - 130
2-Chlorotoluene (% Recovery)	103 %	60 - 130
4-Chlorotoluene (% Recovery)	103 %	60 - 130
tert-Butylbenzene (% Recovery)	103 %	60 - 130

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1,2,4-Trimethylbenzene (% Recovery)	101 %	60 - 130
sec-Butylbenzene (% Recovery)	95.0 %	60 - 130
p-Isopropyltoluene (% Recovery)	101 %	60 - 130
1,3-Dichlorobenzene (% Recovery)	102 %	60 - 130
1,4-Dichlorobenzene (% Recovery)	102 %	60 - 130
n-Butylbenzene (% Recovery)	100 %	60 - 130
1,2-Dichlorobenzene (% Recovery)	101 %	60 - 130
1,2-Dibromo-3-chloropropane (% Recovery)	102 %	60 - 130
1,2,4-Trichlorobenzene (% Recovery)	102 %	60 - 130
Naphthalene (% Recovery)	105 %	60 - 130
1,2,3-Trichlorobenzene (% Recovery)	103 %	60 - 130
Dilution Factor	1	
Analyzed By	Jeff Ruehr	
Analysis Date/Time	4/17/2013 8:30	

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Analytical Quality Control Results Report

Batch: 13041811	ICP Metals - water (Diss.)
SAM 2-S/WS-014S	LIMS ID: 2013-1154

ICP Metals - water (Dissolved) DUP — Run: 1

Parameter	Result	DL	RL	Accuracy Control	Precision Control
Aluminum	53.2 ug/L	20	20		
Aluminum (RPD)	9.6 %				0 - 20
Antimony (RPD)	0 %				0 - 20
Antimony	<5 ug/L	1	5		
Arsenic	0.51 ug/L	0.2	0.5		
Arsenic (RPD)	1.0 %				0 - 20
Barium (RPD)	0.8 %				0 - 20
Barium	13.0 ug/L	0.4	2		
Beryllium	<0.1 ug/L	0.04	0.1		
Beryllium (RPD)	36.4 %				0 - 20
Boron (RPD)	1.5 %				0 - 20
Boron	10.4 ug/L	2	5		
Cadmium (RPD)	0 %				0 - 20
Cadmium	<0.1 ug/L	0.05	0.1		
Calcium	10.9 mg/L	0.03	0.03		
Calcium (RPD)	0.8 %				0 - 20
Chromium (RPD)	8.4 %				0 - 20
Chromium	<0.5 ug/L	0.05	0.5		
Cobalt	<0.5 ug/L	0.05	0.5		
Cobalt (RPD)	2.5 %				0 - 20
Copper (RPD)	5.0 %				0 - 20
Copper	0.68 ug/L	0.2	0.5		
Iron	180 ug/L	5	20		
Iron (RPD)	1.0 %				0 - 20
Lead (RPD)	2.2 %				0 - 20
Lead	<0.3 ug/L	0.02	0.3		
Magnesium	1.32 mg/L	0.01	0.02		
Magnesium (RPD)	0.7 %				0 - 20
Manganese	83 ug/L	0.07	0.3		
Manganese (RPD)	0.2 %				0 - 20
Nickel	0.90 ug/L	0.15	0.5		
Nickel (RPD)	0.6 %				0 - 20
Potassium	1.50 mg/L	0.01	0.02		

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Potassium (RPD)	1.3 %				0 - 20
Selenium (RPD)	12.2 %				0 - 20
Selenium	<1 ug/L	0.2	1		
Silicon Dioxide	2.85 mg/L	0.01	0.05		
Silicon Dioxide (RPD)	2.6 %				0 - 20
Silver (RPD)	0 %				0 - 20
Silver	<0.5 ug/L	0.02	0.5		
Sodium	3.90 mg/L	0.01	0.02		
Sodium (RPD)	0.7 %				0 - 20
Thallium	<0.5 ug/L	0	0.5		
Thallium (RPD)	0 %				0 - 20
Vanadium (RPD)	50.7 %				0 - 20
Vanadium	<0.5 ug/L	0.3	0.5		
Zinc	9.48 ug/L	0.3	1		
Zinc (RPD)	10.2 %				0 - 20
Hardness (RPD)	0 %				0 - 20
Hardness	33 mg/L	1	1		
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	Apr 17 2013 12:24PM				

SAM 2-S/WS-014S ***LIMS ID: 2013-1154***

ICP Metals - water (Dissolved) MS ***Run: 1***

Parameter	*Result*	*DL*	*RL*	*Accuracy Control*	*Precision Control*
Aluminum (% Recovery)	90.7 %			70 - 130	
Antimony (% Recovery)	95.9 %			70 - 130	
Arsenic (% Recovery)	110 %			70 - 130	
Barium (% Recovery)	93.4 %			70 - 130	
Beryllium (% Recovery)	100 %			70 - 130	
Boron (% Recovery)	83.7 %			70 - 130	
Cadmium (% Recovery)	98.3 %			70 - 130	
Calcium (% Recovery)	7.8 %			70 - 130	
Chromium (% Recovery)	97.2 %			70 - 130	
Cobalt (% Recovery)	97.4 %			70 - 130	
Copper (% Recovery)	99.0 %			70 - 130	
Iron (% Recovery)	96.7 %			70 - 130	
Lead (% Recovery)	95.0 %			70 - 130	
Magnesium (% Recovery)	95.8 %			70 - 130	
Manganese (% Recovery)	95 %			70 - 130	

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Nickel (% Recovery)	98 %	70 - 130	
Potassium (% Recovery)	90.6 %	70 - 130	
Selenium (% Recovery)	120 %	70 - 130	
Silver (% Recovery)	89.6 %	70 - 130	
Sodium (% Recovery)	98.8 %	70 - 130	
Thallium (% Recovery)	94.5 %	70 - 130	
Vanadium (% Recovery)	97.9 %	70 - 130	
Zinc (% Recovery)	106 %	70 - 130	
Dilution Factor	1		
Analyzed By	Robert Graddy		
Analysis Date/Time	Apr 17 2013 12:31PM		

SAM 2-S/WS-014S ***LIMS ID: 2013-1154***

ICP Metals - water (Dissolved) MSD ***Run: 1***

Parameter	*Result*	*DL*	*RL*	*Accuracy Control*	*Precision Control*
Aluminum (% Recovery)	91.8 %			70 - 130	
Aluminum (RPD)	1.1 %				0 - 20
Antimony (% Recovery)	95.6 %			70 - 130	
Antimony (RPD)	0.3 %				0 - 20
Arsenic (% Recovery)	105 %			70 - 130	
Arsenic (RPD)	4.5 %				0 - 20
Barium (% Recovery)	93.4 %			70 - 130	
Barium (RPD)	0 %				0 - 20
Beryllium (% Recovery)	99.2 %			70 - 130	
Beryllium (RPD)	1.1 %				0 - 20
Boron (% Recovery)	83.1 %			70 - 130	
Boron (RPD)	0.6 %				0 - 20
Cadmium (% Recovery)	99.0 %			70 - 130	
Cadmium (RPD)	0.6 %				0 - 20
Calcium (% Recovery)	9.5 %			70 - 130	
Calcium (RPD)	1.5 %				0 - 20
Chromium (% Recovery)	95.8 %			70 - 130	
Chromium (RPD)	1.4 %				0 - 20
Cobalt (% Recovery)	95.6 %			70 - 130	
Cobalt (RPD)	1.8 %				0 - 20
Copper (% Recovery)	97.9 %			70 - 130	
Copper (RPD)	1.2 %				0 - 20
Iron (% Recovery)	92.9 %			70 - 130	
Iron (RPD)	2.0 %				0 - 20

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Lead (% Recovery)	94.4 %	70 - 130	
Lead (RPD)	0.7 %		0 - 20
Magnesium (% Recovery)	95.4 %	70 - 130	
Magnesium (RPD)	0.4 %		0 - 20
Manganese (% Recovery)	88 %	70 - 130	
Manganese (RPD)	1.9 %		0 - 20
Nickel (% Recovery)	96 %	70 - 130	
Nickel (RPD)	2.1 %		0 - 20
Potassium (% Recovery)	92.1 %	70 - 130	
Potassium (RPD)	1.4 %		0 - 20
Selenium (% Recovery)	115 %	70 - 130	
Selenium (RPD)	4.3 %		0 - 20
Silver (% Recovery)	89.1 %	70 - 130	
Silver (RPD)	0.5 %		0 - 20
Sodium (% Recovery)	97.5 %	70 - 130	
Sodium (RPD)	0.9 %		0 - 20
Thallium (% Recovery)	93.5 %	70 - 130	
Thallium (RPD)	1.1 %		0 - 20
Vanadium (% Recovery)	95.8 %	70 - 130	
Vanadium (RPD)	2.1 %		0 - 20
Zinc (% Recovery)	104 %	70 - 130	
Zinc (RPD)	1.1 %		0 - 20
Dilution Factor	1		
Analyzed By	Robert Graddy		
Analysis Date/Time	Apr 17 2013 12:50PM		

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Analytical Quality Control Results Report

Batch: 13041810 — Oil and Grease - water

SAM 2-S/WS-014S — **LIMS ID: 2013-1154**

Oil and Grease - water DUP — **Run: 1**

Parameter	Result	DL	RL	Accuracy Control	Precision Control
Oil and Grease (RPD)	120 %				0 - 20
Oil and Grease	<2.5 mg/L	2.5	2.5		
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	04/18/2013 1500				

SAM 2-S/WS-014S — **LIMS ID: 2013-1154**

Oil and Grease - water MS — **Run: 1**

Parameter	Result	DL	RL	Accuracy Control	Precision Control
Oil and Grease (% Recovery)	100 %			70 - 130	
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	04/18/2013 1500				

SAM 2-S/WS-014S — **LIMS ID: 2013-1154**

Oil and Grease - water MSD — **Run: 1**

Parameter	Result	DL	RL	Accuracy Control	Precision Control
Oil and Grease (% Recovery)	90.5 %			70 - 130	
Oil and Grease (RPD)	9.9 %				0 - 20
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	04/18/2013 1500				

MB — **LIMS ID: 13041810-MB-01**

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	04/18/2013 1500				

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LCS					***LIMS ID: 13041810-LCS-01***
Oil and Grease - water LCS					***Run: 1***
Parameter	***Result***	***DL***	***RL***	***Accuracy Control***	***Precision Control***
Oil and Grease (% Recovery)	88.0 %			70 - 130	
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	04/18/2013 1500				

MB					***LIMS ID: 13041810-MB-02***
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	04/18/2013 1500				

LCS					***LIMS ID: 13041810-LCS-02***
Oil and Grease - water LCS					***Run: 1***
Parameter	***Result***	***DL***	***RL***	***Accuracy Control***	***Precision Control***
Oil and Grease (% Recovery)	91.3 %			70 - 130	
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	04/18/2013 1500				

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Analytical Quality Control Results Report

Batch: 13041802	***Turbidity - water***
SAM 2-S/WS-014S	***LIMS ID: 2013-1154***

Turbidity - water DUP ***Run: 1***

Parameter	*Result*	*DL*	*RL*	*Accuracy Control*	*Precision Control*
Turbidity	9.23 NTU	0.02	0.02		
Turbidity (RPD)	0.4 %				0 - 20
Dilution Factor	1				
Analyzed By	Angela H. Rice				
Analysis Date/Time	4/17/2013 12:40				

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Analytical Quality Control Results Report

Batch: 13041813	ICP Metals - water (total)
SAM 2-S/WS-014S	LIMS ID: 2013-1154

ICP Metals - water (Total) DUP — Run: 1

Parameter	Result	DL	RL	Accuracy Control	Precision Control
Aluminum	422 ug/L	20	20		
Aluminum (RPD)	9.2 %				0 - 20
Antimony (RPD)	0 %				0 - 20
Antimony	<10 ug/L	5	10		
Arsenic	<1 ug/L	0.5	1		
Arsenic (RPD)	4.0 %				0 - 20
Barium (RPD)	2.8 %				0 - 20
Barium	17.2 ug/L	2	10		
Beryllium	<0.5 ug/L	0.1	0.5		
Beryllium (RPD)	3.8 %				0 - 20
Boron (RPD)	1.2 %				0 - 20
Boron	<25 ug/L	5	25		
Cadmium (RPD)	100 %				0 - 20
Cadmium	<1 ug/L	0.3	1		
Calcium	11.1 mg/L	0.04	0.04		
Calcium (RPD)	7.5 %				0 - 20
Chromium (RPD)	4.2 %				0 - 20
Chromium	<1 ug/L	0.3	1		
Cobalt	<1 ug/L	0.5	1		
Cobalt (RPD)	3.1 %				0 - 20
Copper	<1 ug/L	0.5	1		
Copper (RPD)	0.5 %				0 - 20
Iron (RPD)	5.8 %				0 - 20
Iron	640 ug/L	10	20		
Lead	<1 ug/L	0.1	1		
Lead (RPD)	2.2 %				0 - 20
Magnesium (RPD)	1.6 %				0 - 20
Magnesium	1.37 mg/L	0.1	0.1		
Manganese	150 ug/L	0.2	1		
Manganese (RPD)	2.2 %				0 - 20
Nickel (RPD)	4.6 %				0 - 20
Nickel	<2.5 ug/L	0.5	2.5		
Potassium	1.70 mg/L	0.05	1		

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Potassium (RPD)	0.9 %				0 - 20
Selenium (RPD)	2.2 %				0 - 20
Selenium	<2 ug/L	0.5	2		
Silver	<5 ug/L	1	5		
Silver (RPD)	0 %				0 - 20
Sodium (RPD)	0.3 %				0 - 20
Sodium	3.92 mg/L	0.02	0.04		
Thallium	<2.5 ug/L	0.05	2.5		
Thallium (RPD)	0 %				0 - 20
Vanadium (RPD)	9.7 %				0 - 20
Vanadium	<2.5 ug/L	1	2.5		
Zinc	3.20 ug/L	2	3		
Zinc (RPD)	4.1 %				0 - 20
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	Apr 17 2013 6:51PM				

SAM 2-S/WS-014S ***LIMS ID: 2013-1154***

ICP Metals - water (Total) MS ***Run: 1***

Parameter	*Result*	*DL*	*RL*	*Accuracy Control*	*Precision Control*
Aluminum (% Recovery)	97.9 %			70 - 130	
Antimony (% Recovery)	89.9 %			70 - 130	
Arsenic (% Recovery)	93.7 %			70 - 130	
Barium (% Recovery)	94.4 %			70 - 130	
Beryllium (% Recovery)	94.6 %			70 - 130	
Boron (% Recovery)	79.5 %			70 - 130	
Cadmium (% Recovery)	94.4 %			70 - 130	
Calcium (% Recovery)	17.6 %			70 - 130	
Chromium (% Recovery)	93.0 %			70 - 130	
Cobalt (% Recovery)	94.8 %			70 - 130	
Copper (% Recovery)	94.6 %			70 - 130	
Iron (% Recovery)	104 %			70 - 130	
Lead (% Recovery)	96.4 %			70 - 130	
Magnesium (% Recovery)	93.3 %			70 - 130	
Manganese (% Recovery)	82 %			70 - 130	
Nickel (% Recovery)	94 %			70 - 130	
Potassium (% Recovery)	94.7 %			70 - 130	
Selenium (% Recovery)	89.7 %			70 - 130	
Silver (% Recovery)	90.1 %			70 - 130	

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Sodium (% Recovery)	95.8 %		70 - 130
Thallium (% Recovery)	95.4 %		70 - 130
Vanadium (% Recovery)	93.9 %		70 - 130
Zinc (% Recovery)	93.2 %		70 - 130
Dilution Factor	1		
Analyzed By	Robert Graddy		
Analysis Date/Time	Apr 17 2013 6:58PM		

SAM 2-S/WS-014S ***LIMS ID: 2013-1154***

ICP Metals - water (Total) MSD ***Run: 1***

Parameter	*Result*	*DL*	*RL*	*Accuracy Control*	*Precision Control*
Aluminum (% Recovery)	100 %			70 - 130	
Aluminum (RPD)	1.2 %				0 - 20
Antimony (% Recovery)	90.7 %			70 - 130	
Antimony (RPD)	0.8 %				0 - 20
Arsenic (% Recovery)	93.1 %			70 - 130	
Arsenic (RPD)	0.6 %				0 - 20
Barium (% Recovery)	95.2 %			70 - 130	
Barium (RPD)	0.9 %				0 - 20
Beryllium (% Recovery)	94.8 %			70 - 130	
Beryllium (RPD)	0.1 %				0 - 20
Boron (% Recovery)	79.6 %			70 - 130	
Boron (RPD)	0.1 %				0 - 20
Cadmium (% Recovery)	95.2 %			70 - 130	
Cadmium (RPD)	0.9 %				0 - 20
Calcium (% Recovery)	16.3 %			70 - 130	
Calcium (RPD)	1.1 %				0 - 20
Chromium (% Recovery)	93.6 %			70 - 130	
Chromium (RPD)	0.6 %				0 - 20
Cobalt (% Recovery)	94.6 %			70 - 130	
Cobalt (RPD)	0.2 %				0 - 20
Copper (% Recovery)	95.3 %			70 - 130	
Copper (RPD)	0.8 %				0 - 20
Iron (% Recovery)	106 %			70 - 130	
Iron (RPD)	0.6 %				0 - 20
Lead (% Recovery)	96.4 %			70 - 130	
Lead (RPD)	0 %				0 - 20
Magnesium (% Recovery)	93.7 %			70 - 130	
Magnesium (RPD)	0.4 %				0 - 20

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Manganese (% Recovery)	83 %	70 - 130	
Manganese (RPD)	0.3 %		0 - 20
Nickel (% Recovery)	94 %	70 - 130	
Nickel (RPD)	1.0 %		0 - 20
Potassium (% Recovery)	93.7 %	70 - 130	
Potassium (RPD)	0.9 %		0 - 20
Selenium (% Recovery)	91.0 %	70 - 130	
Selenium (RPD)	1.4 %		0 - 20
Silver (% Recovery)	90.7 %	70 - 130	
Silver (RPD)	0.7 %		0 - 20
Sodium (% Recovery)	96.2 %	70 - 130	
Sodium (RPD)	0.3 %		0 - 20
Thallium (% Recovery)	95.4 %	70 - 130	
Thallium (RPD)	0 %		0 - 20
Vanadium (% Recovery)	94.5 %	70 - 130	
Vanadium (RPD)	0.7 %		0 - 20
Zinc (% Recovery)	93.2 %	70 - 130	
Zinc (RPD)	0 %		0 - 20
Dilution Factor	1		
Analysis Date/Time	Apr 17 2013 7:04PM		
Analyzed By	Robert Graddy		