DATA VALIDATION REPORT PERFORMANCE VERIFICATION SAMPLING EVENT FEBRUARY 2009

Groundwater Migration
Control System
Sauget Area 2

Prepared for
Solutia Inc.
c/o Bill Johnson
575 Maryville Centre Drive
St. Louis, MO 63141

June 2009

URS Corporation
1001 Highlands Plaza Drive West, Suite 300
St. Louis, MO 63110
(314) 429-0100
Project #21561913

URS

June 22, 2009

Mr. Bill Johnson
Solutia Inc.
575 Maryville Centre Drive
St. Louis, Missouri 63141

Re: Data Validation Report Groundwater Migration Control System Surface Water and Sediment Sampling Event – February 2009 Sauget, Illinois URS Project No. 2152153

Dear Bill:

URS Corporation (URS) is pleased to present this Data Validation Report for surface water and sediment sampling, conducted as part of the Groundwater Migration Control System Performance Verification Sampling Program. This report provides:

1. A brief summary of field activities
2. A figure showing the sampling locations
3. Detection tables
4. Sample summary lists
5. Data validation checklists
6. Data tables
7. Qualifier definition tables.

SCOPE OF WORK

The surface water and sediment sampling field activities were conducted on February 25, 2009 in accordance with the Surface Water and Sediment Performance Verification Sampling Plan dated January 31, 2003. During the sampling event, surface water and sediment samples were collected from a total of five locations immediately adjacent to Site R, stations PDA-2, -3, -4, -5 and -9 as defined in the Menzie Curra sampling effort in 2000.

1001 Highland Plaza Drive West, Suite 300
St. Louis, MO 63110
Phone: 314.429.0100
Fax: 314.429.0462

Surface Water Monitoring

Surface water samples were collected at the sediment-water interface (within 1 foot of the bottom) at all stations. Because of the volumes required and sampling limitations due to the fast currents, a peristaltic pump system was utilized using decontaminated tubing at each sample location.

Surface water samples were submitted to the laboratory unfiltered and analyzed for VOCs, SVOCs, pesticides, herbicides and metals; a matrix spike/matrix spike duplicate (MS/MSD) sample was analyzed for VOCs, SVOCs, pesticides, herbicides, and metals. One trip blank was submitted and analyzed for VOCs.

VOC samples were collected by directly filling 3-40 mL VOA vials from the peristaltic pump tubing to minimize VOC and preservative loss. Samples for metals analysis were filtered and preserved at the laboratory and an additional sample was collected and submitted to the laboratory for trace metals analysis at each sample location. In addition, field measurements were recorded for temperature, pH dissolved oxygen and conductivity.

Surface water samples were appropriately labeled with the sample location, requested analysis, preservative, date and time sampled and sampler's initials. Samples were maintained at 4°C ± 2°C with ice and shipped in coolers to Severn Trent Laboratory (STL) in Savannah, Georgia. The chain-of-custody (COC) documentation was shipped with the samples to the laboratory.

Sediment Sampling

Sediment samples were collected using a Ponar Dredge sampler from the upper few inches (5 to 6 cm) at each sample location. This depth interval was selected as the zone most relevant of exposures to ecological receptors. Sediment samples were analyzed for VOCs, SVOCs, pesticides, herbicides, and metals; an equipment blank sample was analyzed for VOCs, SVOCs, pesticides, herbicides and metals.

URS

VOC samples were collected from the first grab using a 5 mL modified syringe/plunger. The plunger tube was inserted into the sediment below the surface and removed slowly to prevent sample loss. The plunger was then used to extrude the sample into pre-weighed sample vials. One sample vial contained sodium bisulfate preservative for low-level analysis and the other two vial contained methanol for high-level analysis. Sediment samples for all other parameters were collected from a composite of the upper few inches of sediment from additional grab samples at each sample location. Sediment was removed from the sampler and homogenized in a stainless steel bowl using a stainless steel spoon. Once the sediment was homogenized, sample containers were filled using the stainless steel spoon. All sampling equipment was decontaminated before moving to the next sample location.

Sediment samples were appropriately labeled with the sample location, requested analysis, preservative, date and time sampled and sampler's initials. Samples were maintained at 4°C ± 2°C with ice and shipped to Severn Trent Laboratory (STL) in Savannah, Georgia. The chain-of-custody (COC) documentation was shipped with the samples to the laboratory.

Should you have any questions or comments regarding this Data Validation Report, please do not hesitate to contact me at 314.429.0100

Very truly yours,

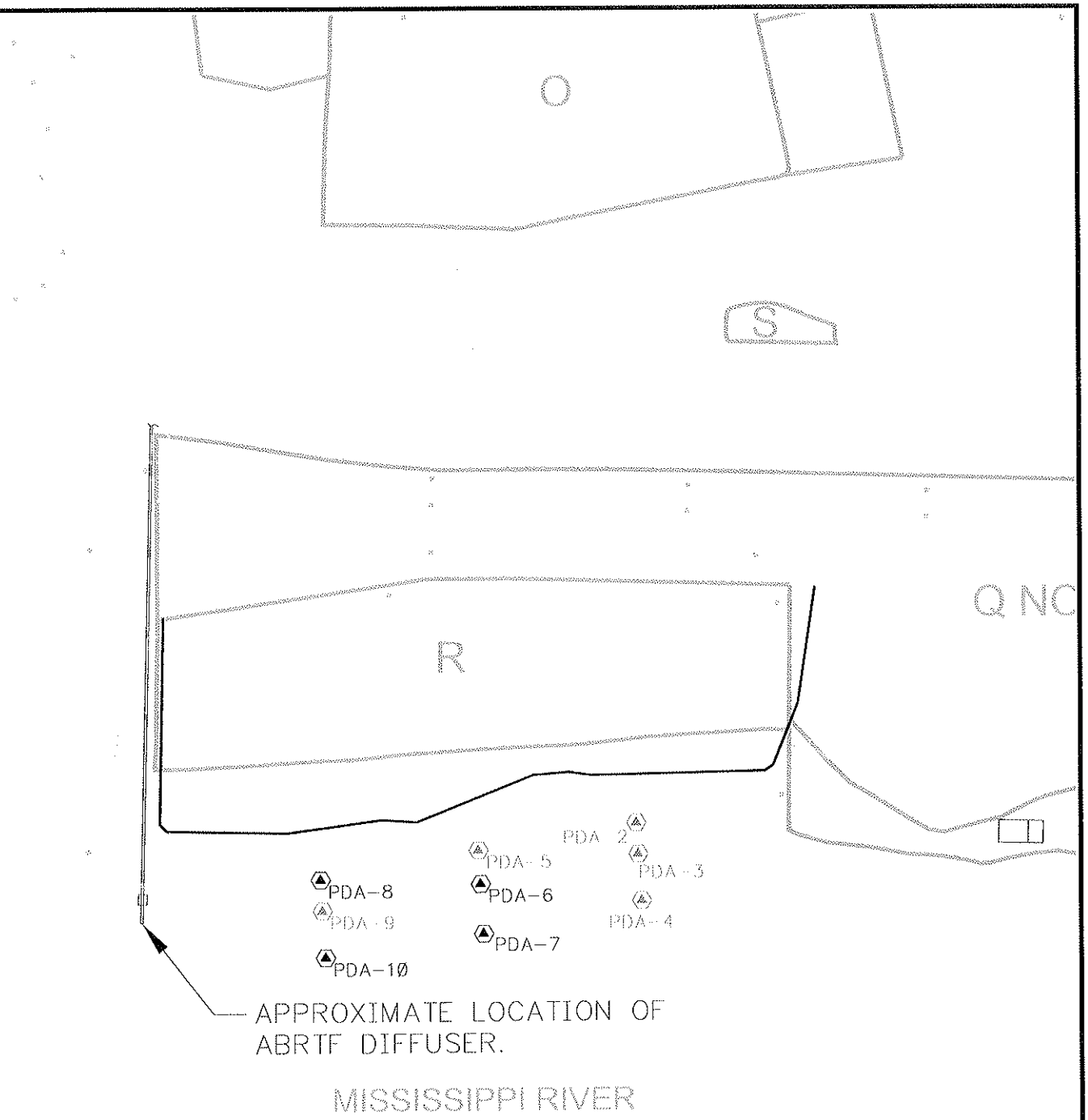
Robert Veenstra
Vice President

Enclousre

RBV/BH:mlr

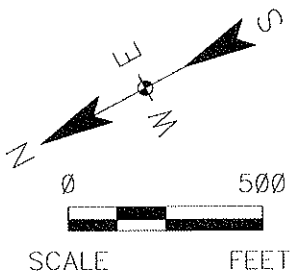
URS

Figure



LEGEND

- SURFACE WATER/SEDIMENT SAMPLE LOCATION (BARRIER WALL UAO)
- SURFACE WATER/SEDIMENT SAMPLE LOCATION (2000 MENZIE CURRA)



SAUGET AREA 2 GROUNDWATER MIGRATION CONTROL SYSTEM SAUGET, ILLINOIS	PROJECT NO. 21561391
URS	
DRN. BY:djd 6/16/09 DSGN. BY:ss CHKD. BY:	Surface Water & Sediment Sampling Locations February 2009
	FIG. NO. 1

File: X:\VALIDATION\GWCS SW-SED\SW & SED (SEPTEMBER 2009)\FIG 1 SURFACE WATER & SEDIMENT SAMPLING LOCATIONS (SEPT 08).DWG Last edited: 06/19/09 @ 07:55 a.m. WC-ST.LOUIS, MO

Detection Tables

Sauget Area 2
Groundwater Migration Control System
Surface Water Sample Detections
February 2009

Media	Sample ID	Sample Date	Group	Chemical	Result	Units	Lab Qualifiers	URS Qualifiers
Surface	SW-SA2-GMCS-2	2/25/2009	VOCs	Carbon Dioxide	92	ug/L	T B J N	
Surface	SW-SA2-GMCS-2	2/25/2009	Herbicides	Dichlorprop	0.25	ug/L	J p	
Surface	SW-SA2-GMCS-2	2/25/2009	Metals	Aluminum	2.5	mg/L		
Surface	SW-SA2-GMCS-2	2/25/2009	Metals	Barium	0.078	mg/L		
Surface	SW-SA2-GMCS-2	2/25/2009	Metals	Barium (Dissolved)	0.061	mg/L		
Surface	SW-SA2-GMCS-2	2/25/2009	Metals	Calcium	55	mg/L		
Surface	SW-SA2-GMCS-2	2/25/2009	Metals	Calcium (Dissolved)	57	mg/L		
Surface	SW-SA2-GMCS-2	2/25/2009	Metals	Chromium	0.0034	mg/L	J	
Surface	SW-SA2-GMCS-2	2/25/2009	Metals	Cobalt	0.00094	mg/L	J	
Surface	SW-SA2-GMCS-2	2/25/2009	Metals	Copper	0.0047	mg/L	J	
Surface	SW-SA2-GMCS-2	2/25/2009	Metals	Iron	2.7	mg/L		
Surface	SW-SA2-GMCS-2	2/25/2009	Metals	Iron (Dissolved)	0.045	mg/L	J	
Surface	SW-SA2-GMCS-2	2/25/2009	Metals	Magnesium	22	mg/L		
Surface	SW-SA2-GMCS-2	2/25/2009	Metals	Magnesium (Dissolved)	22	mg/L		
Surface	SW-SA2-GMCS-2	2/25/2009	Metals	Manganese	0.083	mg/L		
Surface	SW-SA2-GMCS-2	2/25/2009	Metals	Manganese (Dissolved)	0.0049	mg/L	J	
Surface	SW-SA2-GMCS-2	2/25/2009	Metals	Nickel	0.0031	mg/L	J	
Surface	SW-SA2-GMCS-2	2/25/2009	Metals	Nickel (Dissolved)	0.002	mg/L	J	
Surface	SW-SA2-GMCS-2	2/25/2009	Metals	Potassium	5.4	mg/L		
Surface	SW-SA2-GMCS-2	2/25/2009	Metals	Potassium (Dissolved)	5.1	mg/L		
Surface	SW-SA2-GMCS-2	2/25/2009	Metals	Sodium	33	mg/L		
Surface	SW-SA2-GMCS-2	2/25/2009	Metals	Sodium (Dissolved)	34	mg/L		
Surface	SW-SA2-GMCS-2	2/25/2009	Metals	Vanadium	0.0057	mg/L	J	
Surface	SW-SA2-GMCS-2	2/25/2009	Metals	Vanadium (Dissolved)	0.0018	mg/L	J	
Surface	SW-SA2-GMCS-2	2/25/2009	Metals	Zinc	0.014	mg/L	J	
Surface	SW-SA2-GMCS-3	2/25/2009	VOCs	Carbon Dioxide	87	ug/L	T B J N	
Surface	SW-SA2-GMCS-3	2/25/2009	VOCs	Sulfur dioxide	560	ug/L	T J N	
Surface	SW-SA2-GMCS-3	2/25/2009	Herbicides	Dichlorprop	0.24	ug/L	J p	
Surface	SW-SA2-GMCS-3	2/25/2009	Metals	Aluminum	2.7	mg/L		
Surface	SW-SA2-GMCS-3	2/25/2009	Metals	Antimony (Dissolved)	0.0054	mg/L	J	
Surface	SW-SA2-GMCS-3	2/25/2009	Metals	Barium	0.085	mg/L		
Surface	SW-SA2-GMCS-3	2/25/2009	Metals	Barium (Dissolved)	0.061	mg/L		
Surface	SW-SA2-GMCS-3	2/25/2009	Metals	Calcium	59	mg/L		
Surface	SW-SA2-GMCS-3	2/25/2009	Metals	Calcium (Dissolved)	56	mg/L		
Surface	SW-SA2-GMCS-3	2/25/2009	Metals	Chromium	0.0036	mg/L	J	
Surface	SW-SA2-GMCS-3	2/25/2009	Metals	Copper	0.0058	mg/L	J	

Sauget Area 2
Groundwater Migration Control System
Surface Water Sample Detections
February 2009

Media	Sample ID	Sample Date	Group	Chemical	Result	Units	Lab Qualifiers	URS Qualifiers
Surface	SW-SA2-GMCS-3	2/25/2009	Metals	Iron	3	mg/L		
Surface	SW-SA2-GMCS-3	2/25/2009	Metals	Iron (Dissolved)	0.052	mg/L		
Surface	SW-SA2-GMCS-3	2/25/2009	Metals	Lead	0.0035	mg/L	J	
Surface	SW-SA2-GMCS-3	2/25/2009	Metals	Magnesium	23	mg/L		
Surface	SW-SA2-GMCS-3	2/25/2009	Metals	Magnesium (Dissolved)	22	mg/L		
Surface	SW-SA2-GMCS-3	2/25/2009	Metals	Manganese	0.091	mg/L		
Surface	SW-SA2-GMCS-3	2/25/2009	Metals	Nickel	0.0045	mg/L	J	
Surface	SW-SA2-GMCS-3	2/25/2009	Metals	Potassium	5.9	mg/L		
Surface	SW-SA2-GMCS-3	2/25/2009	Metals	Potassium (Dissolved)	5.1	mg/L		
Surface	SW-SA2-GMCS-3	2/25/2009	Metals	Sodium	36	mg/L		
Surface	SW-SA2-GMCS-3	2/25/2009	Metals	Sodium (Dissolved)	35	mg/L		
Surface	SW-SA2-GMCS-3	2/25/2009	Metals	Vanadium	0.0065	mg/L	J	
Surface	SW-SA2-GMCS-3	2/25/2009	Metals	Zinc	0.015	mg/L	J	
Surface	SW-SA2-GMCS-4	2/25/2009	VOCs	Carbon Dioxide	88	ug/L	T B J N	
Surface	SW-SA2-GMCS-4	2/25/2009	Herbicides	Dichlorprop	0.31	ug/L	J p	
Surface	SW-SA2-GMCS-4	2/25/2009	Metals	Aluminum	3.1	mg/L		
Surface	SW-SA2-GMCS-4	2/25/2009	Metals	Barium	0.08	mg/L		
Surface	SW-SA2-GMCS-4	2/25/2009	Metals	Barium (Dissolved)	0.058	mg/L		
Surface	SW-SA2-GMCS-4	2/25/2009	Metals	Calcium	54	mg/L		
Surface	SW-SA2-GMCS-4	2/25/2009	Metals	Calcium (Dissolved)	53	mg/L		
Surface	SW-SA2-GMCS-4	2/25/2009	Metals	Chromium	0.0038	mg/L	J	
Surface	SW-SA2-GMCS-4	2/25/2009	Metals	Cobalt	0.0015	mg/L	J	
Surface	SW-SA2-GMCS-4	2/25/2009	Metals	Copper	0.01	mg/L	J	
Surface	SW-SA2-GMCS-4	2/25/2009	Metals	Iron	3.3	mg/L		
Surface	SW-SA2-GMCS-4	2/25/2009	Metals	Iron (Dissolved)	0.065	mg/L		
Surface	SW-SA2-GMCS-4	2/25/2009	Metals	Lead	0.003	mg/L	J	
Surface	SW-SA2-GMCS-4	2/25/2009	Metals	Magnesium	21	mg/L		
Surface	SW-SA2-GMCS-4	2/25/2009	Metals	Magnesium (Dissolved)	21	mg/L		
Surface	SW-SA2-GMCS-4	2/25/2009	Metals	Manganese	0.085	mg/L		
Surface	SW-SA2-GMCS-4	2/25/2009	Metals	Nickel	0.005	mg/L	J	
Surface	SW-SA2-GMCS-4	2/25/2009	Metals	Potassium	5.4	mg/L		
Surface	SW-SA2-GMCS-4	2/25/2009	Metals	Potassium (Dissolved)	4.8	mg/L		
Surface	SW-SA2-GMCS-4	2/25/2009	Metals	Sodium	32	mg/L		
Surface	SW-SA2-GMCS-4	2/25/2009	Metals	Sodium (Dissolved)	33	mg/L		
Surface	SW-SA2-GMCS-4	2/25/2009	Metals	Vanadium	0.0068	mg/L	J	
Surface	SW-SA2-GMCS-4	2/25/2009	Metals	Vanadium (Dissolved)	0.0018	mg/L	J	

Sauget Area 2
Groundwater Migration Control System
Surface Water Sample Detections
February 2009

Media	Sample ID	Sample Date	Group	Chemical	Result	Units	Lab Qualifiers	URS Qualifiers
Surface	SW-SA2-GMCS-4	2/25/2009	Metals	Zinc	0.019	mg/L	J	
Surface	SW-SA2-GMCS-5	2/25/2009	VOCs	Carbon Dioxide	92	ug/L	T B J N	
Surface	SW-SA2-GMCS-5	2/25/2009	VOCs	Sulfur dioxide	900	ug/L	T J N	
Surface	SW-SA2-GMCS-5	2/25/2009	Herbicides	Dichlorprop	0.41	ug/L	J	
Surface	SW-SA2-GMCS-5	2/25/2009	Metals	Aluminum	0.54	mg/L		J
Surface	SW-SA2-GMCS-5	2/25/2009	Metals	Barium	0.069	mg/L		
Surface	SW-SA2-GMCS-5	2/25/2009	Metals	Barium (Dissolved)	0.061	mg/L		
Surface	SW-SA2-GMCS-5	2/25/2009	Metals	Calcium	53	mg/L		
Surface	SW-SA2-GMCS-5	2/25/2009	Metals	Calcium (Dissolved)	56	mg/L		
Surface	SW-SA2-GMCS-5	2/25/2009	Metals	Copper	0.0038	mg/L	J	
Surface	SW-SA2-GMCS-5	2/25/2009	Metals	Iron	0.88	mg/L		J
Surface	SW-SA2-GMCS-5	2/25/2009	Metals	Iron (Dissolved)	0.073	mg/L		
Surface	SW-SA2-GMCS-5	2/25/2009	Metals	Lead	0.0034	mg/L	J	
Surface	SW-SA2-GMCS-5	2/25/2009	Metals	Magnesium	21	mg/L		
Surface	SW-SA2-GMCS-5	2/25/2009	Metals	Magnesium (Dissolved)	22	mg/L		
Surface	SW-SA2-GMCS-5	2/25/2009	Metals	Manganese	0.075	mg/L		
Surface	SW-SA2-GMCS-5	2/25/2009	Metals	Manganese (Dissolved)	0.0088	mg/L	J	
Surface	SW-SA2-GMCS-5	2/25/2009	Metals	Nickel	0.0021	mg/L	J	
Surface	SW-SA2-GMCS-5	2/25/2009	Metals	Nickel (Dissolved)	0.0022	mg/L	J	
Surface	SW-SA2-GMCS-5	2/25/2009	Metals	Potassium	4.9	mg/L		J
Surface	SW-SA2-GMCS-5	2/25/2009	Metals	Potassium (Dissolved)	5	mg/L		
Surface	SW-SA2-GMCS-5	2/25/2009	Metals	Sodium	32	mg/L		
Surface	SW-SA2-GMCS-5	2/25/2009	Metals	Sodium (Dissolved)	34	mg/L		
Surface	SW-SA2-GMCS-5	2/25/2009	Metals	Vanadium	0.0017	mg/L	J	
Surface	SW-SA2-GMCS-5	2/25/2009	Metals	Vanadium (Dissolved)	0.0017	mg/L	J	
Surface	SW-SA2-GMCS-5	2/25/2009	Metals	Zinc	0.011	mg/L	J	
Surface	SW-SA2-GMCS-9	2/25/2009	VOCs	Carbon Dioxide	85	ug/L	T B J N	
Surface	SW-SA2-GMCS-9	2/25/2009	Herbicides	Dichlorprop	0.24	ug/L	J p	
Surface	SW-SA2-GMCS-9	2/25/2009	Metals	Aluminum	2.6	mg/L		
Surface	SW-SA2-GMCS-9	2/25/2009	Metals	Barium	0.082	mg/L		
Surface	SW-SA2-GMCS-9	2/25/2009	Metals	Barium (Dissolved)	0.059	mg/L		
Surface	SW-SA2-GMCS-9	2/25/2009	Metals	Calcium	58	mg/L		
Surface	SW-SA2-GMCS-9	2/25/2009	Metals	Calcium (Dissolved)	55	mg/L		
Surface	SW-SA2-GMCS-9	2/25/2009	Metals	Chromium	0.0033	mg/L	J	
Surface	SW-SA2-GMCS-9	2/25/2009	Metals	Copper	0.0053	mg/L	J	
Surface	SW-SA2-GMCS-9	2/25/2009	Metals	Iron	2.8	mg/L		

Sauget Area 2
Groundwater Migration Control System
Surface Water Sample Detections
February 2009

Media	Sample ID	Sample Date	Group	Chemical	Result	Units	Lab Qualifiers	URS Qualifiers
Surface	SW-SA2-GMCS-9	2/25/2009	Metals	Iron (Dissolved)	0.05	mg/L	J	
Surface	SW-SA2-GMCS-9	2/25/2009	Metals	Lead	0.0037	mg/L	J	J
Surface	SW-SA2-GMCS-9	2/25/2009	Metals	Magnesium	23	mg/L		
Surface	SW-SA2-GMCS-9	2/25/2009	Metals	Magnesium (Dissolved)	22	mg/L		
Surface	SW-SA2-GMCS-9	2/25/2009	Metals	Manganese	0.088	mg/L		
Surface	SW-SA2-GMCS-9	2/25/2009	Metals	Nickel	0.0036	mg/L	J	
Surface	SW-SA2-GMCS-9	2/25/2009	Metals	Potassium	5.7	mg/L		
Surface	SW-SA2-GMCS-9	2/25/2009	Metals	Potassium (Dissolved)	4.9	mg/L		
Surface	SW-SA2-GMCS-9	2/25/2009	Metals	Sodium	34	mg/L		
Surface	SW-SA2-GMCS-9	2/25/2009	Metals	Sodium (Dissolved)	34	mg/L		
Surface	SW-SA2-GMCS-9	2/25/2009	Metals	Vanadium	0.006	mg/L	J	
Surface	SW-SA2-GMCS-9	2/25/2009	Metals	Zinc	0.017	mg/L	J	
Surface	SW-SA2-GMCS-9-DUP	2/25/2009	VOCs	Carbon Dioxide	89	ug/L	T B J N	
Surface	SW-SA2-GMCS-9-DUP	2/25/2009	Herbicides	Dichlorprop	0.16	ug/L	J p	
Surface	SW-SA2-GMCS-9-DUP	2/25/2009	Metals	Aluminum	3.1	mg/L		
Surface	SW-SA2-GMCS-9-DUP	2/25/2009	Metals	Barium	0.084	mg/L		
Surface	SW-SA2-GMCS-9-DUP	2/25/2009	Metals	Barium (Dissolved)	0.059	mg/L		
Surface	SW-SA2-GMCS-9-DUP	2/25/2009	Metals	Calcium	58	mg/L		
Surface	SW-SA2-GMCS-9-DUP	2/25/2009	Metals	Calcium (Dissolved)	56	mg/L		
Surface	SW-SA2-GMCS-9-DUP	2/25/2009	Metals	Chromium	0.0046	mg/L	J	
Surface	SW-SA2-GMCS-9-DUP	2/25/2009	Metals	Cobalt	0.00095	mg/L	J	
Surface	SW-SA2-GMCS-9-DUP	2/25/2009	Metals	Copper	0.0053	mg/L	J	
Surface	SW-SA2-GMCS-9-DUP	2/25/2009	Metals	Iron	3.2	mg/L		
Surface	SW-SA2-GMCS-9-DUP	2/25/2009	Metals	Iron (Dissolved)	0.056	mg/L		
Surface	SW-SA2-GMCS-9-DUP	2/25/2009	Metals	Lead	0.0024	mg/L	J	J
Surface	SW-SA2-GMCS-9-DUP	2/25/2009	Metals	Magnesium	23	mg/L		
Surface	SW-SA2-GMCS-9-DUP	2/25/2009	Metals	Magnesium (Dissolved)	22	mg/L		
Surface	SW-SA2-GMCS-9-DUP	2/25/2009	Metals	Manganese	0.09	mg/L		
Surface	SW-SA2-GMCS-9-DUP	2/25/2009	Metals	Manganese (Dissolved)	0.0028	mg/L	J	
Surface	SW-SA2-GMCS-9-DUP	2/25/2009	Metals	Nickel	0.0045	mg/L	J	
Surface	SW-SA2-GMCS-9-DUP	2/25/2009	Metals	Potassium	5.8	mg/L		
Surface	SW-SA2-GMCS-9-DUP	2/25/2009	Metals	Potassium (Dissolved)	4.9	mg/L		
Surface	SW-SA2-GMCS-9-DUP	2/25/2009	Metals	Sodium	36	mg/L		
Surface	SW-SA2-GMCS-9-DUP	2/25/2009	Metals	Sodium (Dissolved)	34	mg/L		
Surface	SW-SA2-GMCS-9-DUP	2/25/2009	Metals	Vanadium	0.0071	mg/L	J	
Surface	SW-SA2-GMCS-9-DUP	2/25/2009	Metals	Zinc	0.02	mg/L	J	

Sauget Area 2
Groundwater Migration Control System
Sediment Sample Detections
February 2009

Media	Sample ID	Sample Date	Group	Chemical	Result	Units	Lab Qualifiers	URS Qualifiers
Sediment	SED-SA2-GMCS-2	2/25/2009	VOCs	2-Butanone (MEK)	25	ug/Kg	J	J
Sediment	SED-SA2-GMCS-2	2/25/2009	VOCs	Benzene	100	ug/Kg		J
Sediment	SED-SA2-GMCS-2	2/25/2009	VOCs	Carbon Dioxide	6800	ug/Kg	T B J N	J
Sediment	SED-SA2-GMCS-2	2/25/2009	VOCs	Chlorobenzene	3100	ug/Kg	D	J
Sediment	SED-SA2-GMCS-2	2/25/2009	VOCs	Methyl N-Butyl Ketone	46	ug/Kg	J	J
Sediment	SED-SA2-GMCS-2	2/25/2009	VOCs	Toluene	14	ug/Kg	J	J
Sediment	SED-SA2-GMCS-2	2/25/2009	SVOCs	[1,1'-Biphenyl]-3-ol	6200	ug/Kg	T J N	
Sediment	SED-SA2-GMCS-2	2/25/2009	SVOCs	1,2-Dichlorobenzene	560	ug/Kg	J	
Sediment	SED-SA2-GMCS-2	2/25/2009	SVOCs	1,4-Dichlorobenzene	2600	ug/Kg	J	
Sediment	SED-SA2-GMCS-2	2/25/2009	Metals	Aluminum	6600	mg/Kg		
Sediment	SED-SA2-GMCS-2	2/25/2009	Metals	Antimony	0.38	mg/Kg	J	
Sediment	SED-SA2-GMCS-2	2/25/2009	Metals	Arsenic	3.2	mg/Kg		
Sediment	SED-SA2-GMCS-2	2/25/2009	Metals	Barium	150	mg/Kg		
Sediment	SED-SA2-GMCS-2	2/25/2009	Metals	Beryllium	0.35	mg/Kg	J	
Sediment	SED-SA2-GMCS-2	2/25/2009	Metals	Cadmium	0.34	mg/Kg	J	
Sediment	SED-SA2-GMCS-2	2/25/2009	Metals	Calcium	10000	mg/Kg		
Sediment	SED-SA2-GMCS-2	2/25/2009	Metals	Chromium	12	mg/Kg		
Sediment	SED-SA2-GMCS-2	2/25/2009	Metals	Cobalt	4.6	mg/Kg		
Sediment	SED-SA2-GMCS-2	2/25/2009	Metals	Copper	7.4	mg/Kg		
Sediment	SED-SA2-GMCS-2	2/25/2009	Metals	Iron	10000	mg/Kg	B	
Sediment	SED-SA2-GMCS-2	2/25/2009	Metals	Lead	13	mg/Kg		
Sediment	SED-SA2-GMCS-2	2/25/2009	Metals	Magnesium	3200	mg/Kg	B	
Sediment	SED-SA2-GMCS-2	2/25/2009	Metals	Manganese	240	mg/Kg		
Sediment	SED-SA2-GMCS-2	2/25/2009	Metals	Mercury	0.032	mg/Kg		
Sediment	SED-SA2-GMCS-2	2/25/2009	Metals	Nickel	12	mg/Kg		
Sediment	SED-SA2-GMCS-2	2/25/2009	Metals	Potassium	1100	mg/Kg		
Sediment	SED-SA2-GMCS-2	2/25/2009	Metals	Sodium	140	mg/Kg	J	
Sediment	SED-SA2-GMCS-2	2/25/2009	Metals	Vanadium	19	mg/Kg		
Sediment	SED-SA2-GMCS-2	2/25/2009	Metals	Zinc	64	mg/Kg		
Sediment	SED-SA2-GMCS-3	2/25/2009	VOCs	Carbon Dioxide	940	ug/Kg	T B J N	
Sediment	SED-SA2-GMCS-3	2/25/2009	VOCs	Carbon Disulfide	1.6	ug/Kg	J	
Sediment	SED-SA2-GMCS-3	2/25/2009	Herbicides	Dichlorprop	4.1	ug/Kg	J	
Sediment	SED-SA2-GMCS-3	2/25/2009	Metals	Aluminum	1200	mg/Kg		
Sediment	SED-SA2-GMCS-3	2/25/2009	Metals	Arsenic	1.5	mg/Kg		

Sauget Area 2
Groundwater Migration Control System
Sediment Sample Detections
February 2009

Media	Sample ID	Sample Date	Group	Chemical	Result	Units	Lab Qualifiers	URS Qualifiers
Sediment	SED-SA2-GMCS-3	2/25/2009	Metals	Barium	17	mg/Kg		
Sediment	SED-SA2-GMCS-3	2/25/2009	Metals	Beryllium	0.077	mg/Kg	J	
Sediment	SED-SA2-GMCS-3	2/25/2009	Metals	Calcium	670	mg/Kg		
Sediment	SED-SA2-GMCS-3	2/25/2009	Metals	Chromium	4.1	mg/Kg		
Sediment	SED-SA2-GMCS-3	2/25/2009	Metals	Cobalt	3.4	mg/Kg		
Sediment	SED-SA2-GMCS-3	2/25/2009	Metals	Copper	1.4	mg/Kg	J	
Sediment	SED-SA2-GMCS-3	2/25/2009	Metals	Iron	4500	mg/Kg	B	
Sediment	SED-SA2-GMCS-3	2/25/2009	Metals	Lead	2.5	mg/Kg		
Sediment	SED-SA2-GMCS-3	2/25/2009	Metals	Magnesium	690	mg/Kg	B	
Sediment	SED-SA2-GMCS-3	2/25/2009	Metals	Manganese	76	mg/Kg		
Sediment	SED-SA2-GMCS-3	2/25/2009	Metals	Nickel	8.4	mg/Kg		
Sediment	SED-SA2-GMCS-3	2/25/2009	Metals	Potassium	190	mg/Kg		
Sediment	SED-SA2-GMCS-3	2/25/2009	Metals	Vanadium	5.8	mg/Kg		
Sediment	SED-SA2-GMCS-3	2/25/2009	Metals	Zinc	11	mg/Kg		
Sediment	SED-SA2-GMCS-4	2/25/2009	VOCs	Carbon Dioxide	700	ug/Kg	T B J N	
Sediment	SED-SA2-GMCS-4	2/25/2009	Metals	Aluminum	830	mg/Kg		
Sediment	SED-SA2-GMCS-4	2/25/2009	Metals	Antimony	0.24	mg/Kg	J	
Sediment	SED-SA2-GMCS-4	2/25/2009	Metals	Arsenic	1.8	mg/Kg		
Sediment	SED-SA2-GMCS-4	2/25/2009	Metals	Barium	14	mg/Kg		
Sediment	SED-SA2-GMCS-4	2/25/2009	Metals	Beryllium	0.074	mg/Kg	J	
Sediment	SED-SA2-GMCS-4	2/25/2009	Metals	Calcium	470	mg/Kg		
Sediment	SED-SA2-GMCS-4	2/25/2009	Metals	Chromium	2.7	mg/Kg		
Sediment	SED-SA2-GMCS-4	2/25/2009	Metals	Cobalt	2.7	mg/Kg		
Sediment	SED-SA2-GMCS-4	2/25/2009	Metals	Copper	1	mg/Kg	J	
Sediment	SED-SA2-GMCS-4	2/25/2009	Metals	Iron	3700	mg/Kg	B	
Sediment	SED-SA2-GMCS-4	2/25/2009	Metals	Lead	2	mg/Kg		
Sediment	SED-SA2-GMCS-4	2/25/2009	Metals	Magnesium	400	mg/Kg	B	
Sediment	SED-SA2-GMCS-4	2/25/2009	Metals	Manganese	76	mg/Kg		
Sediment	SED-SA2-GMCS-4	2/25/2009	Metals	Nickel	6.1	mg/Kg		
Sediment	SED-SA2-GMCS-4	2/25/2009	Metals	Potassium	150	mg/Kg		
Sediment	SED-SA2-GMCS-4	2/25/2009	Metals	Vanadium	4.2	mg/Kg		
Sediment	SED-SA2-GMCS-4	2/25/2009	Metals	Zinc	7.2	mg/Kg		
Sediment	SED-SA2-GMCS-5	2/25/2009	VOCs	Carbon Dioxide	900	ug/Kg	T B J N	
Sediment	SED-SA2-GMCS-5	2/25/2009	VOCs	Chlorobenzene	1.7	ug/Kg	J	

Sauget Area 2
Groundwater Migration Control System
Sediment Sample Detections
February 2009

Media	Sample ID	Sample Date	Group	Chemical	Result	Units	Lab Qualifiers	URS Qualifiers
Sediment	SED-SA2-GMCS-5	2/25/2009	Pesticides	4,4'-DDD	0.87	ug/Kg	J	
Sediment	SED-SA2-GMCS-5	2/25/2009	Metals	Aluminum	2400	mg/Kg		
Sediment	SED-SA2-GMCS-5	2/25/2009	Metals	Antimony	0.67	mg/Kg	J	
Sediment	SED-SA2-GMCS-5	2/25/2009	Metals	Arsenic	3.7	mg/Kg		
Sediment	SED-SA2-GMCS-5	2/25/2009	Metals	Barium	37	mg/Kg		
Sediment	SED-SA2-GMCS-5	2/25/2009	Metals	Beryllium	0.18	mg/Kg	J	
Sediment	SED-SA2-GMCS-5	2/25/2009	Metals	Cadmium	0.25	mg/Kg	J	
Sediment	SED-SA2-GMCS-5	2/25/2009	Metals	Calcium	1100	mg/Kg		J
Sediment	SED-SA2-GMCS-5	2/25/2009	Metals	Chromium	7.8	mg/Kg		
Sediment	SED-SA2-GMCS-5	2/25/2009	Metals	Cobalt	6.1	mg/Kg		
Sediment	SED-SA2-GMCS-5	2/25/2009	Metals	Copper	1.7	mg/Kg	J	
Sediment	SED-SA2-GMCS-5	2/25/2009	Metals	Iron	9400	mg/Kg	B	
Sediment	SED-SA2-GMCS-5	2/25/2009	Metals	Lead	4.2	mg/Kg		
Sediment	SED-SA2-GMCS-5	2/25/2009	Metals	Magnesium	880	mg/Kg	B	J
Sediment	SED-SA2-GMCS-5	2/25/2009	Metals	Manganese	230	mg/Kg		
Sediment	SED-SA2-GMCS-5	2/25/2009	Metals	Nickel	15	mg/Kg		
Sediment	SED-SA2-GMCS-5	2/25/2009	Metals	Potassium	160	mg/Kg		
Sediment	SED-SA2-GMCS-5	2/25/2009	Metals	Sodium	110	mg/Kg	J	
Sediment	SED-SA2-GMCS-5	2/25/2009	Metals	Vanadium	11	mg/Kg		
Sediment	SED-SA2-GMCS-5	2/25/2009	Metals	Zinc	18	mg/Kg		
Sediment	SED-SA2-GMCS-9	2/25/2009	VOCs	Carbon Dioxide	910	ug/Kg	T B J N	
Sediment	SED-SA2-GMCS-9	2/25/2009	VOCs	Chlorobenzene	0.87	ug/Kg	J	
Sediment	SED-SA2-GMCS-9	2/25/2009	Metals	Aluminum	730	mg/Kg		
Sediment	SED-SA2-GMCS-9	2/25/2009	Metals	Arsenic	1.2	mg/Kg		
Sediment	SED-SA2-GMCS-9	2/25/2009	Metals	Barium	15	mg/Kg		
Sediment	SED-SA2-GMCS-9	2/25/2009	Metals	Beryllium	0.069	mg/Kg	J	
Sediment	SED-SA2-GMCS-9	2/25/2009	Metals	Cadmium	0.051	mg/Kg	J	
Sediment	SED-SA2-GMCS-9	2/25/2009	Metals	Calcium	790	mg/Kg		
Sediment	SED-SA2-GMCS-9	2/25/2009	Metals	Chromium	2.6	mg/Kg		
Sediment	SED-SA2-GMCS-9	2/25/2009	Metals	Cobalt	1.7	mg/Kg		
Sediment	SED-SA2-GMCS-9	2/25/2009	Metals	Copper	0.8	mg/Kg	J	
Sediment	SED-SA2-GMCS-9	2/25/2009	Metals	Iron	2900	mg/Kg	B	
Sediment	SED-SA2-GMCS-9	2/25/2009	Metals	Lead	1.7	mg/Kg		
Sediment	SED-SA2-GMCS-9	2/25/2009	Metals	Magnesium	430	mg/Kg	B	

Sauget Area 2
Groundwater Migration Control System
Sediment Sample Detections
February 2009

Media	Sample ID	Sample Date	Group	Chemical	Result	Units	Lab Qualifiers	URS Qualifiers
Sediment	SED-SA2-GMCS-9	2/25/2009	Metals	Manganese	72	mg/Kg		
Sediment	SED-SA2-GMCS-9	2/25/2009	Metals	Nickel	3.6	mg/Kg	J	
Sediment	SED-SA2-GMCS-9	2/25/2009	Metals	Potassium	150	mg/Kg		
Sediment	SED-SA2-GMCS-9	2/25/2009	Metals	Vanadium	3.5	mg/Kg		
Sediment	SED-SA2-GMCS-9	2/25/2009	Metals	Zinc	5.7	mg/Kg		
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	VOCs	Carbon Dioxide	800	ug/Kg	T B J N	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	Metals	Aluminum	1200	mg/Kg		
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	Metals	Antimony	0.25	mg/Kg	J	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	Metals	Arsenic	1.2	mg/Kg		
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	Metals	Barium	16	mg/Kg		
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	Metals	Beryllium	0.11	mg/Kg	J	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	Metals	Calcium	980	mg/Kg		
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	Metals	Chromium	3.8	mg/Kg		
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	Metals	Cobalt	2.9	mg/Kg		
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	Metals	Copper	0.89	mg/Kg	J	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	Metals	Iron	3600	mg/Kg	B	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	Metals	Lead	1.9	mg/Kg		
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	Metals	Magnesium	670	mg/Kg	B	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	Metals	Manganese	110	mg/Kg		
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	Metals	Nickel	7.1	mg/Kg		
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	Metals	Potassium	160	mg/Kg		
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	Metals	Vanadium	4.3	mg/Kg		
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	Metals	Zinc	11	mg/Kg		

URS

Sample Summary List

Sauget Area 2
Groundwater Migration Control System
SAS059
Sample Summary List
February 2009

SDG	Sample ID	Sample Date	VOCs	SVOCs	PCBs	Pesticides	Herbicides	Dioxins	Metals	Other
SAS059	SW-SA2-GMCS-STATION 2	9/25/09	X	X		X	X			
SAS059	SW-SA2-GMCS-STATION 3	9/25/09	X	X		X	X		X	
SAS059	SW-SA2-GMCS-STATION 4	9/25/09	X	X		X	X		X	
SAS059	SW-SA2-GMCS-STATION 5	9/25/09	X	X		X	X		X	
SAS059	SW-SA2-GMCS-STATION 9	9/25/09	X	X		X	X		X	

Checklists

DATA VALIDATION WORKSHEET
VOLATILE ORGANIC ANALYSIS

Reviewer:	Elizabeth Kunkel	**Project Name:**	Sauget - Area 2 Site R GMCS
Date:	5/19/2009	**Project Number:**	21562153.00001
Laboratory	Severn Trent Laboratory - Savannah	**SDG No.:**	SAS059
		Review Level:	Level IV

Major Anomalies:

No data was rejected.

Minor Anomalies:

Chlorobenzene was qualified (J) based on low surrogate recovery. Common laboratory contaminant, acetone, was qualified (U) using professional judgment. All VOC detects/nondetects were qualified U/UJ in sample SED-SA2-GMCS-2 usinf professional judgment. Analytes were qualified (UJ) based on continuing calibration %Ds outside of evaluation criteria.

Field IDs: SED-SA2-GMCS-3 SED-SA2-GMCS-2

1.0 Chain of Custody/Sample Condition

		Yes	No	NA
1.1	Do Chain-of-Custody forms list all samples analyzed	x		
1.2	Are all Chain-of-Custody forms signed, indicating sample chain-of-custody was maintained?	x		
1.3	Do the Traffic Reports, chain-of-custody, and lab narrative indicate any problems with sample receipt, condition of samples, analytical problems or special circumstances affecting the quality of the data?	x		

Note: Although not indicated in the laboratory case narrative, toluene was detected in the method blank. A VOC analyte was qualified based on low surrog recovery. VOC LCS recoveries were outside evaluation criteria.
Professional judgment was used to qualify common laboratory contaminant acetone.
Professional judgment was used to qualify all VOC detects/nondetects in sample, SED-SA2-GMCS-2 due to potential loss, volatilization due to the pre-preserved vials not be sufficiently sealed. Continuing calibration %Ds were outside evaluation criteria. These issues are addressed further in the appropriate sections below.
The cooler receipt form did not indicate any problems.

Field ID	Analyte	New RL	Qualification
SED-SA2-GMCS-2	All VOC detects/nondetects		J/UJ
SED-SA2-GMCS-2	Acetone		U

2.0 Holding Time/ Preservation (Code H)

		Yes	No	NA
2.1	Do sample preservation, collection and storage condition meet method requiremen	x		
	If sample preservation and/or temperature was inappropriate (i.e., <2° >6°C, etc.), comment in report. If unpreserved or temperature is outside the range 0° (but not frozen) to 10° flag all positive results with a "J" and all non-detects "UJ". If temperature exceeds 10°, flag positive detections "J" and non-detects "R".			
2.2	Have any technical holding times, determined from sampling to date of analysis, been exceeded? If yes, J(+)/UJ(-).		x	
	Matrix / Preserved / Aromatic / All others			
	Aqueous / No / 7 days / 14 days			
	Yes / 14 days / 14 days			
	Soil/Sediment / $4^{o}C \pm 2\ ^{o}C$ / 14 days / 14 days			
2.3	Have any technical holding times been grossly (twice the holding time) exceeded? If yes, J(+)/R(		x	

Note: All holding time criteria were met.

3.0 GC/MS Instrument Performance Check (Code T)

		Yes	No	NA
3.1	Are GC/MS Tuning and Mass Calibration forms present for bromofluorobenzene (BFB	x		
3.2	Have all samples been analyzed within twelve hours of the BFB tune? If no, flag R.	x		
3.3	Have ion abundance criteria for BFB been met for each instrument used? If no, flag J	x		

Note:

4.0 Blanks (Method Blanks, Field Blanks and Trip Blanks

(Code X - Field Blank Contamination, Code Y - Trip blank contamination, Code Z - Method blank contamination

		Yes	No	NA
4.1	Is a Method Blank Summary form present for each batch	x		
4.2	Do any method blanks have positive VOA results (TCL and/or TIC)?	x		
4.3	Do any field/trip rinse/equipment blanks have positive VOA results (TCL and/or TIC)?			x
	Action: Positive sample results <5X (or 10X for common volatile lab contaminants- methylene chloride, acetone, and 2-butanone) the blank concentration should be qualified "U". The result should be elevated to the RL for estimate (laboratory "J" flagged) concentrations.			
4.4	If Level IV, review raw data and verify all detections for blanks were reporte	x		

Note: Toluene (34 ug/kg) was detected in method blank 680-132155/17. Analytical data that were reported nondetect or at concentrations greater than five tim (5X) the associated blank concentration did not require qualification.

5.0 GC/MS Initial Calibration (Code C)

		Yes	No	NA
5.1	Are Initial Calibration summary forms present and complete for each instrument use	x		
5.2	Are CCCs linear applying either %RSD < 30% and all other compounds <15% or >0.990?	x		
	If not, J(+)/ UJ(-). In extreme cases, the reviewer may flag non-detects "R".			
5.3	Do any SPCC compounds have an RRF less than specification or any other compounds < 0.05 (use 0.01 for poor responders like ketones or alcohols)? If yes, J(+)/R(-).		x	
5.4	Is the lowest standard at the same concentration, or lower, as the RL reported? If not, elevate RL.	x		
5.5	If Level IV, recalculate a sample of RRFs and %RSDs to verify correct calculations are being mac	x		

Note:

6.0 Continuing Calibration (Code C)

		Yes	No	NA
6.1	Are Continuing Calibration Summary forms present and complete	x		
6.2	Has a continuing calibration standard been analyzed every 12 hours?	x		
6.3	Have all SPCCs and CCCs met method specifications? If not, comment in report, proceed to 6.4.	x		
6.4	Do any compounds have a % difference (or % drift for quantitation from a curve) (%D) between initial and continuing calibration RRF outside QC limits (%D < 20%)?	x		
	If yes, a marginal increase in response >20% then J(+) only; a decrease in response then J(+)/ UJ(-). For %D > 50%, flag R.			
6.5	Do any compounds have an RRF < 0.05 (use 0.01 for poor responders)? If yes, J(+)/R(-).		x	
6.6	If Level IV, calculate a sample of RFs and %Ds from ave RF to verify correct calculatior	x		

Note: Continuing calibration %Ds associated with the validated samples were outside evaluation criteria (20%) as listed in the table belc

CCV (Date and Time)	Analyte	% Drift or %D
3/7/2009 (10:56)	Dichlorodifluoromethane	23.9
3/7/2009 (10:56)	Chloroethane	52.5
3/7/2009 (10:56)	trans-1,2-Dichloroethene	-24.5
3/7/2009 (10:56)	cis-1,2-Dichloroethene	23.4
3/9/2009 (10:03)	Dichlorodifluoromethane	26.1
3/9/2009 (10:03)	Bromomethane	-22.5
3/9/2009 (10:03)	Chloroethane	20.3

Professional judgment was used to not reject or qualify chloroethane data for the validated samples run on 3/7/2009, due to an increase in response and chloroethane was nondetect in all validated samples.
Dichlorodifluoromethane, cis-1,2-dichloroethene, and chloroethane were nondetect in the validated samples; therefore no qualification was required for nondetect compounds with marginal increases in response.
Qualifications due to continuing calibration %D's are listed in the table below.

Field ID	Analyte	Code	Qualification
SED-SA2-GMCS-2	Bromomethane	C	UJ
SED-SA2-GMCS-3	Bromomethane	C	UJ
SED-SA2-GMCS-2	trans-1,2-Dichloroethene	C	UJ
SED-SA2-GMCS-3	trans-1,2-Dichloroethene	C	UJ

7.0 Surrogate Recovery (Code S)

		Yes	No	NA
7.1	Are all samples listed on the appropriate Surrogate Recovery Summary Form	x		
7.2	Are surrogate recoveries within acceptance criteria specified in the QAPP for all samples?	x		
7.3	If No in Section 7.2, were these sample(s) or method blank(s) reanalyzed?			x
7.4	If No in Section 7.3, is any sample dilution factor greater than 10? (Surrogate recoveries may be diluted out.)			x
	Note: If SMC recoveries do not meet acceptance criteria in samples chosen for the MS/MSD or diluted samples, then no			
	> UCL 10% to LCL < 10%			
	Positive J J J			
	Non-detect None UJ			

Note: Surrogate recovery for compounds 4-Bromofluorobenzene (64%) with criteria (65-124%), Dibromofluoromethane (63%) with criteria (65-124%), ar
Toluene-d_8 (56%) with criteria (65-132 %) was outside evaluation criteria in sample SED-SA2-GMCS-2 DL.
Surrogate recovery for compounds 4-Bromofluorobenzene (54%) with criteria (65-124%) and Toluene-d_8 (57%) with criteria (65-132%) was outside evaluation criteria in sample SED-SA2-GMCS-2 RADL.
Data was reported from SED-SA2-GMCS-2-RADL and not from SED-SA2-GMCS-2-DL.
Analytical data that required qualification based on surrogate data are included in the table below.

Field ID	Parameter	Analyte	Qualification
SED-SA2-GMCS-2-RADL	VOCs	Chlorobenzene	J

8.0 Matrix Spike/Matrix Spike Duplicate (MS/MSD) or one MS with a Sample Duplicate (Recovery - Code M, RPD - Code D)

		Yes	No	NA
8.1	Is a Matrix Spike/Matrix Spike Duplicate recovery form present		x	
8.2	Are MS/MSDs analyzed at the required frequency of one matrix spike per ten samples and a duplicate per twenty for each matrix?			x
8.3	Are all MS/MSD %Rs and RPDs within acceptance criteria Specified in the QAPP?			x
	Using informed professional judgment, the data reviewer should use the MS and MSD results in conjunction with other QC criteria and determine the need for qualification of the data for samples *from the same site/matrix* . Recoveries <10% may require rejection. RPD failures may be flagged "J" (+ only)			

Note: The validated samples were not chosen for MS/MSD analysis, however sample SED-SA2-GMCS-5 was spiked and analyzed for VO

9.0 Laboratory Control Sample (LCS/LCSD) (Recovery - Code L, RPD - Code E)

		Yes	No	NA
9.1	Is an LCS recovery form present'	x		
9.2	Is an LCS analyzed at the required frequency of one per twenty field samples for each matrix?	x		
9.3	Are all LCS %Rs and RPDs within acceptance criteria specified in the QAPP?		x	
9.4	If Level IV, verify the % recoveries are calculated correctly.	x		
	Action for specific compound outside the acceptance criteria: %R>UCL, J(+) only; <LCL, J(+)/UJ(-); <30% J(+)/R(-). RPD failures should be flagged "J" (+ only)			

Note: LCS recovery for cis-1,2-dichloroethene (149%) with criteria (58-143%) was outside evaluation criteria in LCS QC sample 680-132155/16. Cis-1,2-dichlorthene was nondetect in all validated samples associated with 680-132155/16; therefore, no qualification of data is required.

10.0 Internal Standards (Code I)

		Yes	No	NA
10.1	Are internal standard areas for every sample and blank within upper and lower QC limit:	x		
	Area > +100% / Area < -50% / Area < -10%			
	Positive: J / J / J			
	Non-detect: None / UJ / R			
Note:	The method specification is for the continuing calibration to be compared to the mid-point initial calibration, not sample to continuing calibration. Thus, if all other QC specifications are met for a given sample, using informed professional judgment, the reviewer may choose not to flag individual samples in this case.			
10.2	Are retention times of internal standards within 30 seconds of the associated calibration standard?	x		
	Action: The chromatogram must be examined to determine if any false positives or negatives exist. For shift of a large magnitude, the reviewer may consider partial or total rejection of the data for non-detects in that sample/fraction.			

Note: Internal standard area counts and retention times were within evaluation criteria.

11.0 TCL Identification (Code W)

		Yes	No	NA
11.1	Is the relative retention time (RRT) of each reported compound within 0.06 RRT units of the standard RRT in the continuing calibration?	x		
11.2	Are the three ions of greatest intensity present in the standard mass spectrum also present in the sample mass spectrum; and do sample and standard relative ion intensities agree within 30%?	x		

Note:

12.0 TCL/TIC Quantitation and Reported Detection limits (Code K)

		Yes	No	NA
12.1	Are RLs used consistent with those specified in the QAPI	x		
12.2	Are these limits adjusted to reflect dilutions and/ or percent solids as required?	x		
12.3	Are TIC ions greater than ten percent in the reference spectrum also present in the sample spectrum?			x
12.4	Are any positives reported that exceed the linear range of the instrument? If yes, than flag "J".		x	
12.5	If Level IV, calculate a sample of positive results to verify correct calculatio:	x		

Note:

13.0 Field Duplicate Samples (Code F)

		Yes	No	NA
13.1	Were any field duplicates submitted for VOC analysis		x	
13.2	Were all RPD or absolute difference values within the control limits outlined in the QAPP?			x
	Action: No qualifying action is taken based on field duplicate results, however the data validator should provide a qualitative assessment in the data validation report.			

Note:

14.0 Data Completeness

			Yes	No	NA
14.1	Is % completeness within the control limits? (Control limit: Check QAPP or use 95% for aqueous sample, 90% for so		x		
14.2	Number of samples:	2			
14.3	Number of target compounds in each analysis:	35			
14.4	Number of results rejected and not reported:	0			
	% Completeness = 100 x ((14.1 * 14.2) - 14.3) / (14.1 * 14.2)				
	% Completeness	**100**			

Note:

DATA VALIDATION WORKSHEET
SEMIVOLATILE ORGANIC ANALYSIS

Reviewer:	Elizabeth Kunkel	**Project Name:**	Sauget - Area 2 Site R GMCS
Date:	5/19/2009	**Project Number:**	21562153.00001
Laboratory	Severn Trent Laboratory - Savannah	**SDG No.:**	SAS059
		Review Level:	Level IV

Major Anomalies:

No data was rejected.

Minor Anomalies:

No data was qualified based on this data validation.

Field IDs: SED-SA2-GMCS-3 SED-SA2-GMCS-2

1.0 Chain of Custody/Sample Condition		Yes	No	NA
1.1	Do Chain-of-Custody forms list all samples analyzed?	x		
1.2	Are all Chain-of-Custody forms signed, indicating sample chain-of-custody was maintained?	x		
1.3	Do the Traffic Reports, chain-of-custody, and lab narrative indicate any problems with sample receipt, condition of samples, analytical problems or special circumstances affecting the quality of the data?	x		

Note: Although not indicated in the laboratory case narrative, analytes were detected in the method blank. Surrogates were diluted out and not recovered in sample SED-SA2-GMCS-2. Samples were diluted due to hight levels of target analytes. Continuing calibration %Ds were outside evaluation criteria.
These issues are addressed further in the appropriate sections below.
The cooler receipt form did not indicate any problems.

2.0 Holding Time/ Preservation (Code H)		Yes	No	NA
2.1	Do sample preservation, collection and storage condition meet method requirement?	x		
	If samples were not on ice or the ice was melted upon arrival at the laboratory and the temperature of the cooler was elevated (> 10 ^{o}C), then flag all positive results with a "J" and all non-detects "UJ".			
2.2	Have any technical holding times, determined from sampling to date of analysis, been exceeded? (See attached Holding Time Table for sample holding time) If yes, J(+)/UJ(-).		x	
	Extraction: Soil/Sediment 14 days - aqueous 7 days Analysis: 40 days			
2.3	Have any technical holding times grossly (twice the holding time) been exceeded? If yes, J(+)/R(-).		x	

Note: All holding times criteria were met.

3.0 GC/MS Instrument Performance Check (Code T)		Yes	No	NA
3.1	Are GC/MS Tuning and Mass Calibration forms present for DFTPP?	x		
3.2	Have all samples been analyzed within twelve hours of the tune?	x		
	If no, the data for the affected standards, blanks, field samples or QC samples are rejected "R".			
3.3	Have ion abundance criteria for DFTPP been met for each instrument used?	x		
	If no, all standards, blanks, field samples and QC samples are rejected "R".			

Note:

4.0 Blanks (Method Blanks and Field Blanks)

(Code X - Field Blank Contamination, Code Z - Method blank contamination)

		Yes	No	NA
4.1	Is a Method Blank Summary form present for each batch?	x		
4.2	Do any method/instrument/reagent blanks have positive results (TCL, and/or TIC)?		x	
4.3	Do any field equipment blanks have positive results (TCL, and/or TIC)?		x	
	Action: Positive sample results <5X (or 10X for phthalate contaminants) the blank concentration should be qualified "U" and the detection limit elevated to the RL for estimate concentrations.			
4.4	If Level IV, review raw data and verify all detections for blanks were reported.	x		

Note: The compounds benzo[b]fluoranthene (33 ug/kg), benzo[k]fluoranthene (27ug/kg), benzo[a]pyrene (36 ug/kg), indeno[1,2,3-cd]pyrene (45ug/kg), dibenz(a,h)anthracene (46 ug/kg), and benzo[g,h,i]perylene (50ug/kg) were detected in method blank 680-131603/21-A.
Analytical data that were reported nondetect or at concentrations greater than five times (5x) the associated blank concentration did not require qualification.

5.0 GC/MS Initial Calibration (Code C)

		Yes	No	NA
5.1	Are Initial Calibration summary forms present and complete for each instrument used?	x		
5.2	Are CCCs linear applying either %RSD 30% and all other compounds <15% or >0.990?		x	
	If not, J(+)/ UJ(-). In extreme cases, the reviewer may flag non-detects "R".			
5.3	Do any SPCC compounds have an RRF les than specification or any other compounds < 0.05 (use 0.01 for poor responders like amines and phenols)? If yes, J(+)/R(-).		x	
5.4	Is the lowest standard at the same concentration, or lower, as the RL reported? If not, elevate RL.	x		
5.5	If Level IV, recalculate a sample of RRFs and %RSDs to verify correct calculations are being made.	x		

Note:

6.0 Continuing Calibration (Code C)

		Yes	No	NA
6.1	Are Continuing Calibration Summary forms present and complete?	x		
6.2	Has a continuing calibration standard been analyzed every 12 hours?	x		
6.3	Have all SPCCs and CCCs met method specifications? If not, comment in report, proceed to 6.4.	x		
6.4	Do any compounds have a % difference (or % drift for quantitation from a curve) (%D) between initial and continuing calibration RRF outside QC limits (%D < 20%)?	x		
	If yes, a marginal increase in response >20% then J(+) only; a decrease in response then J(+)/ UJ(-). For %D > 50%, flag R.			
6.5	Do any compounds have an RRF < 0.05 (use 0.01 for poor responders)? If yes, J(+)/R(-).		x	
6.6	If Level IV, calculate a sample of RFs and %Ds from ave RF to verify correct calculations.	x		

Note: Continuing calibration %Ds associated with the validated samples were outside evaluation criteria (20%) as listed in the table below.

CCV (Date and Time)	Analyte	%D
3/6/2009 (9:32:00 AM)	2,4-Dinitrophenol	20.7
3/6/2009 (9:32:00 AM)	4-Nitrophenol	24.3
3/6/2009 (9:32:00 AM)	4,6-Dinitro-2-methylphenol	22.1

The analytes with %Ds above evaluation criteria indicating a high bias were nondetect in the validated samples; therefore, no qualification of the data was required.

7.0 Surrogate Recovery (Code S)

		Yes	No	NA
7.1	Are all samples listed on the appropriate Surrogate Recovery Summary Form ?	x		
7.2	Are surrogate recoveries within acceptance criteria specified in the QAPP for all samples and method blanks?		x	
7.3	Are more than one of either fraction outside the acceptance criteria?		x	
7.4	If Yes in Section 7.3, are these sample(s) or method blank(s) reanalyzed?			x
7.5	If Yes in Section 7.3, is any sample dilution factor greater than 10?			x
	Note: If SMC recoveries display unacceptable recoveries in the MS and/ or diluted samples, then no reanalysis is required and acids and base/ neutrals are assessed separately.			

	> UCL	10% to LCL	< 10%
Positive	J	J	J
Non-detect	None	UJ	R

Note: Surrogates were diluted out and not recovered in sample SED-SA2-GMCS-2.

8.0 Matrix Spike/Matrix Spike Duplicate (MS/MSD) or one MS with a Sample Duplicate (Recovery - Code M, RPD - Code D)

		Yes	No	NA
8.1	Is a Matrix Spike/Matrix Spike Duplicate recovery form present?		x	
8.2	Are MS/MSDs analyzed at the required frequency not to exceed twenty field samples for each matrix?			x
8.3	Are all MS/MSD %Rs and RPDs within acceptance criteria provided by the laboratory?			x
	Using informed professional judgment, the data reviewer should use the MS and MSD results in conjunction with other QC criteria and determine the need for qualification of the data for samples *from the same site/matrix*. Recoveries <10% may require rejection. RPD failures may be flagged "J" (+ only)			

Note: The validated samples were not chosen for MS/MSD analysis, however sample SED-SA2-GMCS-5 was spiked and analyzed for VOCs.

9.0 Laboratory Control Sample (LCS/LCSD) (Recovery - Code L, RPD - Code E)

		Yes	No	NA
9.1	Is an LCS recovery form present?	x		
9.2	Is LCS analyzed at the required frequency for each matrix?	x		
9.3	Are all LCS %Rs (and RPDs) within acceptance criteria?	x		
	Action for specific compound outside the acceptance criteria: %R>UCL, J(+) only; <LCL, J(+)/UJ(-); <30% J(+)/R(-). RPD failures should be flagged "J" (+ only)			
9.4	If Level IV, verify the % recoveries are calculated correctly.	x		

Note: All LCS recoveries were within evaluation criteria.

10.0 Internal Standards (Code I)

		Yes	No	NA
10.1	Are internal standard area of every sample and blank within upper and lower QC limits for each continuing calibration?	x		

	Area > +100%	Area < -50%	Area < -10%
Positive	J	J	J
Non-detect	None	UJ	R

Note: The method specification is for the continuing calibration to be compared to the mid-point initial calibration, not sample to continuing calibration. Thus, if all other QC specifications are met for a given sample, using informed professional judgment, the reviewer may choose not to flag individual samples in this case.

10.2	Are retention times of internal standards within 30 seconds of the associated calibration standard?	x		
	Action: The chromatogram must be examined to determine if any false positives or negatives exist. For shift of a large magnitude, the reviewer may consider partial or total rejection of the data for non-detects in that sample/fraction.			

Note: Internal standard area counts and retention times were within evaluation criteria.

11.0 TCL Identification (Code W)

		Yes	No	NA
11.1	Is the relative retention time (RRT) of each reported compound within 0.06 RRT units of the standard RRT in the continuing calibration?	x		
11.2	Are the three ions of greatest intensity present in the standard mass spectrum also present in the sample mass spectrum; and do sample and standard relative ion intensities agree within 30%?	x		

Note:

12.0 TCL/TIC Quantitation and Reported Detection limits (Code K)

		Yes	No	NA
12.1	Are RLs used consistent with those specified in the QAPP?	x		
12.2	Are these limits adjusted to reflect dilutions and/ or percent solids as required?	x		
12.3	Are TIC ions greater than ten percent in the reference spectrum also present in the sample spectrum?			x
12.4	Are any positives reported that exceed the linear range of the instrument? If yes, than flag "J".		x	
12.5	If Level IV, calculate a sample of positive results to verify correct calculations	x		

Note:

13.0 Field Duplicate Samples (Code F)

		Yes	No	NA
13.1	Were any field duplicates submitted for SVOC analysis?		x	
13.2	Were all RPD or absolute difference values within the control limits?			x
	No action is taken based on field duplicate results, however the data validator should provide a qualitative assessment in the data validation report.			

Note:

14.0 Data Completeness

			Yes	No	NA
14.1	Is % completeness within the control limits? (Control limit: Check QAPP or use 95% for aqueous sample, 90% for soil sample)		x		
14.2	Number of samples:	2			
14.3	Number of target compounds in each analysis:	65			
14.4	Number of results rejected and not reported:	0			
	% Completeness = 100 x ((14.1 x 14.2) - 14.3) / (14.1 x 14.2)				
	% Completeness	**100**			

Note:

DATA VALIDATION WORKSHEET
PESTICIDES ANALYSIS

Reviewer: Elizabeth Kunkel
Date: 5/20/2009
Laboratory Severn Trent Laboratory - Savannah

Project Name: Sauget - Area 2 Site R GM'S
Project Number: 21562153.00001
SDG No.: SAS059
Review Level: Level IV

Major Anomalies:
No data was rejected.

Minor Anomalies:
Analytes were qualified (UJ) based on surrogate recoveries.

Field IDs: SED-SA2-GMCS-3 SED-SA2-GMCS-2

1.0 Chain of Custody/Sample Condition

		Yes	No	NA
1.1	Do Chain-of-Custody forms list all samples analyzed?	x		
1.2	Are all Chain-of-Custody forms signed, indicating sample chain-of-custody was maintained?	x		
1.3	Do the Traffic Reports, chain-of-custody, and lab narrative indicate any problems with sample receipt, condition of samples, analytical problems or special circumstances affecting the quality of the data?	x		

Note: The laboratory case narrative indicated that samples were diluted due to complex matrix issues.
Pesticide surrogate recoveries were outside evaluation criteria
Continuing calibration %Ds were outside evaluation criteria, however the grand mean exception was applied to the continuing calibration standards.
These issues are addressed further in the appropriate sections below.
The cooler receipt form did not indicate any problems.

2.0 Holding Time/ Preservation (Code h)

		Yes	No	NA
2.1	Do sample preservation, collection and storage condition meet method requirement?	x		
	If samples were not on ice or the ice was melted upon arrival at the laboratory and the temperature of the cooler was elevated (> 10 ^{o}C), then flag all positive results with a "J" and all non-detects "UJ".			
2.2	Have any technical holding times, determined from sampling to date of analysis, been exceeded? (See attached Holding Time Table for sample holding time) If yes, J(+)/UJ(-).		x	
	Extraction: Soil/Sediment 14 days - aqueous 7 days Analysis: 40 days			
2.3	Have any technical holding times grossly (twice the holding time) been exceeded? If yes, J(+)/R(-)		x	

Note: All holding times criteria were met

3.0 Blanks (Method Blanks and Field Blanks)

(Code x - Field Blank Contamination, Code z - Method blank contamination)

		Yes	No	NA
3.1	Is a Method Blank Summary form present for each batch?	x		
3.2	Do any method blanks have positive results (TCL)?		x	
3.3	Do any field/rinse/equipment blanks have positive results (TCL)?		x	
	Action: Positive sample results <5X the blank concentration should be qualified "U". The result should be elevated to the RL for estimate (laboratory "J" flagged) concentrations.			
3.4	If Level IV, review raw data and verify all detections for blanks were reported	x		

Note: All blank criteria were met.

4.0 GC/ECD Instrument Performance Check (Code b)

		Yes	No	NA
4.1	Are Endrin and 4,4'-DDT breakdown forms present?	x		
4.2	Have all samples been analyzed within twelve hours of the performance check sample?	x		
	If no, the data for the affected standards, blanks, field samples or QC samples are rejected "R".			
4.3	Have percent breakdown criteria (15%) for endrin and 4,4'-DDT been met?	x		
	If no, all standards, blanks, field samples and QC samples are rejected "R".			

Note:

5.0 Initial Calibration (Code r)

		Yes	No	NA
5.1	Are Initial Calibration summary forms present and complete for each instrument used?	x		
5.2	Are response factors stable (%RSD values < 20% or >0.995) over the concentration range of the instrument	x		
	If not, J(+)/ UJ(-). In extreme cases, the reviewer may flag non-detects "R"			
5.3	If Level IV, recalculate a sample of RRFs and %RSDs to verify correct calculations are being made	x		

Note:

6.0 Continuing Calibration (Code c)

		Yes	No	NA
6.1	Are Continuing Calibration Summary forms present and complete?	x		
6.2	Has a continuing calibration standard been analyzed every 12 hours?	x		
6.3	Do any compounds have a % difference (or % drift for quantitation from a curve) (%D) between initial and continuing calibration CF outside QC limits (%D < 15%)?	x		
	If yes, a marginal increase in response >20% then J(+) only; a decrease in response then J(+)/ UJ(-). For %D > 50%, flag R.			
6.4	If Level IV, calculate a sample of CFs and %Ds to verify correct calculations	x		

Note: The %Ds for the continuing calibration standards associated with the validated samples were outside evaluation criteria; therefore, the grand mean exception was applied to the associated standards. The rule is described in Method SW-846 and sates that when one or more compounds fails to meet acceptance criteria, the initial calibration (ICAL) may be used for quantitation if the average percent difference (%D) of all the compounds in the CCV is less than or equal to 15%. A calculation of the %D for each target compound and a calculation of the grand mean for specific CCVs was performed by the laboratory. All grand mean calculations were less than 15%. Recalculation of the RF and %D for one compound per standard was completed, and no errors incalculation were noted.

7.0 Surrogate Recovery (Code s)

		Yes	No	NA
7.1	Are all samples listed on the appropriate Surrogate Recovery Summary Form ?	x		
7.2	Are surrogate recoveries within acceptance criteria specified in the QAPP for all samples?		x	
7.3	If No in Section 7.2, were these sample(s) or method blank(s) reanalyzed?			x
7.4	If No in Section 7.3, is any sample dilution factor greater than 10? (Surrogate recoveries may be diluted out.)			x
	> UCL / 10% to LCL / < 10%			
	Positive: J / J / J			
	Non-detect: None / UJ / R			

Note: Surrogate recovery for DCB Decachlorobiphenyl (38%) with criteria 50-129% was outside evaluation criteria in sample SED-SA2-GMCS-2
Analytical data that required qualification based on surrogate data are included in the table below.

Field ID	Parameter	Analyte	Qualification
SED-SA2-GMCS-2	Pesticides	All Pesticides Nondetects	UJ

8.0 Matrix Spike/Matrix Spike Duplicate (MS/MSD) or one MS with a Sample Duplicate (Code m - recovery, Code d - RPD)

		Yes	No	NA
8.1	Is a Matrix Spike/Matrix Spike Duplicate recovery form present?		x	
8.2	Are MS/MSDs analyzed at the required frequency of one matrix spike per ten samples and a duplicate per twenty for each matrix?			x
8.3	Are all MS/MSD %Rs and RPDs within acceptance criteria Specified in the QAPP?			x
	Using informed professional judgment, the data reviewer should use the MS and MSD results in conjunction with other QC criteria and determine the need for qualification of the data for samples *from the same site/matrix* . Recoveries <10% may require rejection. RPD failures may be flagged "J" (+ only)			

Note: The validated samples were not chosen for MS/MSD analysis, however sample SED-SA2-GMCS-5 was spiked and analyzed for pesticides

9.0 Laboratory Control Sample (LCS/LCSD) (Code l - LCS recovery Code e - RPD)

		Yes	No	NA
9.1	Is an LCS recovery form present?	x		
9.2	Is an LCS analyzed at the required frequency of one per twenty field samples for each matrix?	x		
9.3	Are all LCS %Rs and RPDs within acceptance criteria specified in the QAPP?	x		
9.4	If Level IV, verify the % recoveries are calculated correctly	x		
	Action for specific compound outside the acceptance criteria: %R>UCL, J(+) only; <LCL, J(+)/UJ(-); <30% J(+)/R(-). RPD failures should be flagged "J" (+ only)			

Note: All LCS recoveries were within evaluation criteria.

10.0 TCL Identification (Code w)

		Yes	No	NA
10.1	Is the relative retention time (RRT) of each reported compound within 0.06 RRT units of the standard RRT in the continuing calibration?	x		

Note:

11.0 TCL Quantitation and Reported Detection limits (Code p)

		Yes	No	NA
11.1	Are RLs used consistent with those specified in the QAPP?	x		
11.2	Are these limits adjusted to reflect dilutions and/ or percent solids as required?	x		
11.3	Are any positives reported that exceed the linear range of the instrument? If yes, than flag "J".	x		
11.4	If Level IV, calculate a sample of positive results to verify correct calculation	x		

Note:

12.0 Field Duplicate Samples (Code f)

		Yes	No	NA
12.1	Were any field duplicates submitted for analysis?		x	
12.2	Were all RPD or absolute difference values within the control limits outlined in the QAPP?			x
	Action: No qualifying action is taken based on field duplicate results, however the data validator should provide a qualitative assessment in the data validation report.			

Note:

13.0 Data Completeness

			Yes	No	NA
13.1	Is % completeness within the control limits? (Control limit: Check QAPP or use 95% for aqueous sample, 90% for soil sample)		x		
13.2	Number of samples:	2			
13.3	Number of target compounds in each analysis:	21			
13.4	Number of results rejected and not reported:	0			
	% Completeness = 100 x ((13.1 x 13.2) - 13.3) / (13.1 x 13.2)				
	% Completeness	**100**			

Note:

DATA VALIDATION WORKSHEET
HERBICIDES ANALYSIS

Reviewer: Elizabeth Kunkel
Date: 5/21/2009
Laboratory Severn Trent Laboratory - Savannah

Project Name: Sauget - Area 2 Site R GMCS
Project Number: 21562153.00001
SDG No.: SAS059
Review Level: Level IV

Major Anomalies:

No data was rejected.

Minor Anomalies:

No data was qualified based on this data validation.

Field IDs: SED-SA2-GMCS-3 SED-SA2-GMCS-2

1.0 Chain of Custody/Sample Condition

		Yes	No	NA
1.1	Do Chain-of-Custody forms list all samples analyzed?	x		
1.2	Are all Chain-of-Custody forms signed, indicating sample chain-of-custody was maintained?	x		
1.3	Do the Traffic Reports, chain-of-custody, and lab narrative indicate any problems with sample receipt, condition of samples, analytical problems or special circumstances affecting the quality of the data?	x		

Note: Continuing calibration %Ds were outside evaluation criteria, however the grand mean exception was applied to the continuing calibration standards.
The cooler receipt form did not indicate any problems.

2.0 Holding Time/ Preservation (Code h)

		Yes	No	NA
2.1	Do sample preservation, collection and storage condition meet method requirement?	x		
	If samples were not on ice or the ice was melted upon arrival at the laboratory and the temperature of the cooler was elevated (> 10 ^{o}C), then flag all positive results with a "J" and all non-detects "UJ".			
2.2	Have any technical holding times, determined from sampling to date of analysis, been exceeded? (See attached Holding Time Table for sample holding time) If yes, J(+)/UJ(-).		x	
	Extraction: Soil/Sediment 14 days - aqueous 7 days Analysis: 40 days			
2.3	Have any technical holding times grossly (twice the holding time) been exceeded? If yes, J(+)/R(-).		x	

Note: All holding time criteria were met.

3.0 Blanks (Method Blanks and Field Blanks)

(Code x - Field Blank Contamination, Code z - Method blank contamination)

		Yes	No	NA
3.1	Is a Method Blank Summary form present for each batch?	x		
3.2	Do any method blanks have positive results?		x	
3.3	Do any field/rinse/equipment blanks have positive results?		x	
	Action: Positive sample results <5X the blank concentration should be qualified "U". The result should be elevated to the RL for estimate (laboratory "J" flagged) concentrations.			
3.4	If Level IV, review raw data and verify all detections for blanks were reported.	x		

Note: All blank criteria were met.

4.0 Initial Calibration (Code r)

		Yes	No	NA
4.1	Are Initial Calibration summary forms present and complete for each instrument used?	x		
4.2	Are calibration factors stable (%RSD values < 20% or >0.995) over the concentration range of the instrument	x		
	If not, J(+)/ UJ(-). In extreme cases, the reviewer may flag non-detects "R".			
4.3	If Level IV, recalculate a sample of RRFs and %RSDs to verify correct calculations are being made.	x		

Note:

5.0 Continuing Calibration (Code c)

		Yes	No	NA
5.1	Are Continuing Calibration Summary forms present and complete?	x		
5.2	Has a continuing calibration standard been analyzed every 12 hours?	x		
5.3	Do any compounds have a % difference (or % drift for quantitation from a curve) (%D) between initial and continuing calibration CF outside QC limits (%D < 20%)?	x		
	If yes, a marginal increase in response >20% then J(+) only; a decrease in response then J(+)/ UJ(-). For %D > 50%, flag R.			
5.5	If Level IV, calculate a sample of CFs and %Ds from ave CF to verify correct calculations.	x		

Note: The %Ds for the continuing calibration standards associated with the validated samples were outside evaluation criteria; therefore, the grand mean exception was applied to the associated standards. The rule is described in Method SW-846 and sates that when one or more compounds fails to meet acceptance criteria, the initial calibration (ICAL) may be used for quantitation if the average percent difference (%D) of all the compounds in the CCV is less than or equal to 15%. A calculation of the %D for each target compound and a calculation of the grand mean for specific CCVs was performed by the laboratory. All grand mean calculations were less than 15%.

Recalculation of the RF and %D for one compound per standard was completed, and no errors were noted.

6.0 Surrogate Recovery (Code s)

		Yes	No	NA
6.1	Are all samples listed on the appropriate Surrogate Recovery Summary Form ?	x		
6.2	Are surrogate recoveries within acceptance criteria specified in the QAPP for all samples?	x		
6.3	If No in Section 6.2, were these sample(s) or method blank(s) reanalyzed?			x
6.4	If No in Section 6.3, is any sample dilution factor greater than 10? (Surrogate recoveries may be diluted out.)			x
	> UCL / 10% to LCL / < 10%			
	Positive: J / J / J			
	Non-detect: None / UJ / R			

Note: All surrogate recoveries were within evaluation criteria.

7.0 Matrix Spike/Matrix Spike Duplicate (MS/MSD) or one MS with a Sample Duplicate (Code m - recovery, Code d - RPD)

		Yes	No	NA
7.1	Is a Matrix Spike/Matrix Spike Duplicate recovery form present?		x	
7.2	Are MS/MSDs analyzed at the required frequency of one matrix spike per ten samples and a duplicate per twenty for each matrix?			x
7.3	Are all MS/MSD %Rs and RPDs within acceptance criteria Specified in the QAPP?			x
	Using informed professional judgment, the data reviewer should use the MS and MSD results in conjunction with other QC criteria and determine the need for qualification of the data for samples *from the same site/matrix* . Recoveries <10% may require rejection. RPD failures may be flagged "J" (+ only)			

Note: The validated samples were not chosen for MS/MSD analysis, however sample SED-SA2-GMCS-5 was spiked and anlyzed for herbicides.

8.0 Laboratory Control Sample (LCS/LCSD) (Code l - LCS recovery Code e - RPD)

		Yes	No	NA
8.1	Is an LCS recovery form present?	x		
8.2	Is an LCS analyzed at the required frequency of one per twenty field samples for each matrix?	x		
8.3	Are all LCS %Rs and RPDs within acceptance criteria specified in the QAPP?	x		
8.4	If Level IV, verify the % recoveries are calculated correctly.	x		
	Action for specific compound outside the acceptance criteria: %R>UCL, J(+) only; <LCL, J(+)/UJ(-); <30% J(+)/R(-). RPD failures should be flagged "J" (+ only)			

Note: All LCS recoveries were within evaluation criteria.

9.0 TCL Identification (Code w)

		Yes	No	NA
9.1	Is the relative retention time (RRT) of each reported compound within 0.06 RRT units of the standard RRT in the continuing calibration?	x		

Note:

10.0 TCL Quantitation and Reported Detection limits (Code p)

		Yes	No	NA
10.1	Are RLs used consistent with those specified in the QAPP?	x		
10.2	Are these limits adjusted to reflect dilutions and/ or percent solids as required?	x		
10.3	Are any positives reported that exceed the linear range of the instrument? If yes, than flag "J".		x	
10.4	If Level IV, calculate a sample of positive results to verify correct calculations	x		

Note:

11.0 Field Duplicate Samples (Code f)

		Yes	No	NA
11.1	Were any field duplicates submitted for herbicide analysis?		x	
11.2	Were all RPD or absolute difference values within the control limits outlined in the QAPP?			x
	Action: No qualifying action is taken based on field duplicate results, however the data validator should provide a qualitative assessment in the data validation report.			

Note:

12.0 Data Completeness

			Yes	No	NA
12.1	Is % completeness within the control limits? (Control limit: Check QAPP or use 95% for aqueous sample, 90% for soil sample)		x		
12.2	Number of samples:	2			
12.3	Number of target compounds in each analysis:	10			
12.4	Number of results rejected and not reported:	0			
	% Completeness = 100 x ((12.1 x 12.2) - 12.3) / (12.1 x 12.2)				
	% Completeness	**100**			

Note:

DATA VALIDATION WORKSHEET - Level III Review
Inorganic - ICP, ICP-MS, GFAA, and CVAA

Reviewer: Elizabeth Kunkel
Date: 5/20/2009
Laboratory Severn Trent Laboratory - Savannal

Project Name: Sauget - Area 2 Site R GMCS
Project Number: 21562153.00001
SDG No.: SAS059
Review Level: Level IV

Major Anomalies:

No data was rejected.

Minor Anomalies:

No data was qualified based on this data validation

Field IDs: SED-SA2-GMCS-3 SED-SA2-GMCS-2

1.0 Chain of Custody/Sample Condition/Raw Data

		ICP			ICP-MS			GFAA			CVAA-Hg		
		Yes	No	NA	Yes	No	NA	Yes	No	NA	Yes	No	NA
1.1	Do Chain-of-Custody forms list all samples that were analyzed?	x									x		
1.2	Are all Chain-of-Custody forms signed, indicating sample chain-of-custody was maintained	x									x		
1.3	Do the traffic Reports, chain-of-custody, and lab narrative indicate any problems with sample receipt, condition of samples, analytical problems or special circumstances affecting the quality of the data?		x									x	
1.4	Does sample preservation, collection and storage meet method requirement? (water samples: with Nitric Acid to pH < 2, and soil/sediment samples: 4 °C ± 2 °C)	x									x		
1.5	Are the digestion logs present and complete with pH values, sample weights, dilutions, final volumes, % solids (for soil samples), and preparation dates? For any missing or incomplete documentation, contact the laboratory for explanation/resubmittal.	x									x		x

Note: Although not indicated in the laboratory case narrative, analytes were detected in the method blanl
These issues are addressed further in the appropriate sections below.
The cooler receipt form did not indicate any problems for the metals in this SDG.

2.0 Holding Time (Code h)

		ICP			ICP-MS			GFAA			CVAA-Hg		
		Yes	No	NA	Yes	No	NA	Yes	No	NA	Yes	No	NA
2.1	Have any technical holding times, determined from date of collection to date of analysis, been Action: J(+)/UJ(-). If the holding times are grossly exceeded (twice the holding time criteria J(+)/R(-).		x									x	

Note: All samples were analyzed within holding time criteria

3.0 Instrument Calibration (Code c)

		ICP			ICP-MS			GFAA			CVAA-Hg		
		Yes	No	NA	Yes	No	NA	Yes	No	NA	Yes	No	NA
3.1	Are sufficient standards included in the calibration curve? (ICP/ICP-MS: blank + one standard; GFAA: blank + three standards; CVAA: blank + five standards)	x									x		
3.2	Are the correlation coefficients > 0.995? (for GFAA and CVAA) Action: J(+)/UJ(-)	x									x		
3.3	Was an initial calibration verification (ICV) analyzed at the beginning of each analysis? Action: If no, use professional judgment to determine affect on the data and note in reviewer narrative.	x									x		
3.4	Was continuing calibration verification (CCV) performed every 10 analysis or every 2 hours, whichever is more frequent? Action: If no, use professional judgment to determine affect on the data and note in reviewer narrative.	x									x		
3.5	Are all calibration standard percent recoveries (ICV and CCV) within the control limits? Mercury (80%-120%) and other Metals (90%-110%).	x									x		

Action:

	R(+/-)	J(+)/UJ(-)	J(+)	R(+)
Mercury	< 65%	65% - 79%	121% - 135%	> 135%
Other Metals	< 75%	75% - 89%	111% - 125%	> 125%

Note:

4.0 Blanks (Code o - Calibration blank failure, Code p - Preparation blank failure, Code x - Field blank failure)

		ICP			ICP-MS			GFAA			CVAA-Hg		
		Yes	No	NA	Yes	No	NA	Yes	No	NA	Yes	No	NA
4.1	Were preparation blank (PB) prepared at the appropriate frequency (one per 20 samples, per batch, per matrix and per level)?	x									x		
4.2	Are there reported PB values > + IDL? Action: If yes, action level of 5 times the blank value are determined for positive and negative blank values.	x										x	
4.3	Were initial calibration blanks (ICB) analyzed? Action: If no, use professional judgment to determine affect on the data note in reviewer narrative.	x									x		
4.4	Were continuing calibration blanks (CCB) analyzed after every 10 samples or every 2 hours whichever is more frequent? Action: If no, use professional judgment to determine affect on the data to note in reviewer narrative.	x									x		
4.5	Are there reported ICB or CCB values > + IDL? Action: If yes, action level of 5 times the blank value are determined for positive and negative blank values.	x										x	
4.6	Are there samples with concentrations less than five times the highest level in associated blanks? Action: If yes, U at reported concentration.	x										x	
4.7	Are there samples with non-detect results or with concentrations less than five times the most negative value in associated blanks? Action; If yes, J(+)/UJ(-).		x									x	

Note: The compounds iron (3.3 mg/kg) and magnesium (0.84 mg/kg) were detected in method blank 680-131521/20-A. Analytical data was reported at concentration:
Chromium (0.0018 mg/kg) and antimony (0.0043 mg/kg) were detected in the continuing calibration blank CCB 680-131998/147 that bracketed the validated samples.
Antimony (0.0057 mg/L) was detected in the initial calibration blank.
Analytical data was reported at concentrations greater than five times (5X) the associated blank concentration; therefore did not require qualification.

5.0 ICP Interference Check Sample (ICS) (Code n)

		ICP			ICP-MS			GFAA			CVAA-Hg		
		Yes	No	NA	Yes	No	NA	Yes	No	NA	Yes	No	NA
5.1	Was ICS AB analyzed at beginning of each ICP run (or at least twice every 8 hours), and at the beginning or once every 8 hours (whichever is more frequent) for ICP-MS?	x											
5.2	Are the ICS AB recoveries within 80% - 120%?	x											
5.3	Are the results for unspiked analytes (in ICS A) < + IDL?	x											
5.4	If not, are the associated sample Al, Ca, Fe, and Mg concentrations less than the level in the ICS?			x									
	Action: Not Spiked Analytes: < -IDL UJ(-); > IDL J(+). Spiked analytes (ICS AB analytes): < 50% R(+/-); 50% - 79% J(+)/UJ(-); > 120% J(+)												

Note:

6.0 Laboratory Control Sample (LCS) (Code l - Recovery, Code e - RPD)

		ICP			ICP-MS			GFAA			CVAA-Hg		
		Yes	No	NA	Yes	No	NA	Yes	No	NA	Yes	No	NA
6.1	Was an LCS prepared and analyzed at the correct frequency (one per 20 samples, per batch, per matrix and per level)? Action: If no, J(+) any sample not associated with LCS results.	x									x		
6.2	Is any LCS recovery outside the control limits? (Aqueous limits: 80% - 120% - except Ag and Sb; Solid limits: as per EPA-EMSL/LV)		x									x	x
	Action: Solid: < LCL J(+)/UJ(-); > UCL J(+). Aqueous: < 50% R(+/-); 50% - 79% J(+)/UJ(-); > 120% J(+)												

Note: All recoveries were within evaluation criteria

7.0 Laboratory Duplicates (Code k)

		ICP			ICP-MS			GFAA			CVAA-Hg		
		Yes	No	NA	Yes	No	NA	Yes	No	NA	Yes	No	NA
7.1	Were Laboratory duplicates prepared and analyzed at the correct frequency (one per 20 samples, per batch, per matrix and per level)? Action: If no, J(÷), with professional judgment, analytes not associated with Duplicate results.		x									x	
7.2	Was a field blank used for the duplicate analysis? Action: If yes, J(+) with professional judgment. Note in worksheet.			x									x
7.3	Are all analyte duplicate results within control? (RPD values < 20% or difference < ± PQL for aqueous, and RPD < 35% or difference < ± 2 X PQL for solids)? Action: If no, J(+). Note: RPD criteria is used when both sample and duplicate results are > 5 X IDL.			x									x

Note:

8.0 Spike Sample Analysis -Pre-Digestion (Code m - Recovery, Code d - RPD)

		ICP			ICP-MS			GFAA			CVAA-Hg		
		Yes	No	NA	Yes	No	NA	Yes	No	NA	Yes	No	NA
8.1	Was a spiked sample prepared and analyzed at the correct frequency (one per 20 samples, per batch, per matrix and per level)? Action: If no, J(÷), with professional judgment, analytes not associated with matrix spike results.		x									x	
8.2	**Was a field blank used for the MS analysis? Action: If yes, J(+) with professional judgment. Note in worksheet.** Note: Matrix spike analysis may be performed on a field blank when it is the only aqueous sample in an SDG.			x									x
8.3	For all analytes with sample concentration < 4 x spike concentration, are spike recoveries within the control limit of 75-125%? (No control limit applies to analytes with concentration > 4 x spike concentration.)			x									x

	%R > 125%	30% < %R < 74%	%R < 30%
Positive	J	J	J
Non-detect	None	UJ	R

Note: The validated samples were not chosen for MS/MSD analysis, however sample SED-SA2-GMCS-5 was spiked and analyzed for metals

9.0 Instrument Detection Limits (IDL)

		ICP			ICP-MS			GFAA			CVAA-Hg		
		Yes	No	NA	Yes	No	NA	Yes	No	NA	Yes	No	NA
9.1	Are all IDL equal to or less than the reporting limits specified	x									x		

Note:

10.0 ICP Serial Dilutions (Code s)

		ICP			ICP-MS			GFAA			CVAA-Hg		
		Yes	No	NA	Yes	No	NA	Yes	No	NA	Yes	No	NA
10.1	Were serial dilutions performed?	x											
10.2	Was a five-fold dilution performed?	x											
10.3	Did the serial dilution results agree within 10% for analyte concentration > 50 x the IDL in the original sample? If no, J(+).			x									

Note:

11.0 Field Duplicate Samples (Code f)

		ICP			ICP-MS			GFAA			CVAA-Hg		
		Yes	No	NA	Yes	No	NA	Yes	No	NA	Yes	No	NA
11.1	Were any field duplicates submitted for metal analysis'		x									x	
11.2	Are all field duplicate results within control? (For aqueous sample, RPD values < 35% or difference < ± 2 x PQL and For solids, RPD < 50% or difference < ± 4 x PQL)			x									x

Note:

12.0 Result Verification (Code Q)

		ICP			ICP-MS			GFAA			CVAA-Hg		
		Yes	No	NA	Yes	No	NA	Yes	No	NA	Yes	No	NA
12.1	Were all results and detection limits for solid-matrix samples reported on a dry-weight basis	x									x		
12.2	Were all dilution reflected in the positive results and detection limits			x									x

Note:

13.0 Data Completeness

13.1	Is % completeness within the control limits? (Control limit: Check QAPP or use 95% for aqueous sample, 90% for soil sample)										
13.2	Number of samples:	2		0		0		2			
13.3	Number of target compounds in each analysis	22		0		0		1			
13.4	Number of results rejected and not reported	0		0		0		0			
	% Completeness = 100 x ((13.1 x 13.2) - 13.3) / (13.1 x 13.2)										
	% Completeness	**100**		**N/A**		**N/A**		**100**			

Note:

URS

Data Tables

Sauget Area 2
Groundwater Migration Control System
Surface Water Sample Results
February 2009

Media	Sample ID	Sample Date	Group	Chemical	Result	Units	Lab Qualifiers	URS Qualifiers
Surface Water	SW-SA2-GMCS-2	2/25/2009	VOCs	1,1,1-Trichloroethane	1	ug/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	VOCs	1,1,2,2-Tetrachloroethane	1	ug/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	VOCs	1,1,2-Trichloroethane	1	ug/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	VOCs	1,1-Dichloroethane	1	ug/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	VOCs	1,1-Dichloroethylene	1	ug/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	VOCs	1,2-Dichloroethane	1	ug/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	VOCs	1,2-Dichloroethene (total)	2	ug/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	VOCs	1,2-Dichloropropane	1	ug/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	VOCs	2-Butanone (MEK)	10	ug/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	VOCs	4-Methyl-2-pentanone (MIBK)	10	ug/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	VOCs	Acetone	25	ug/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	VOCs	Benzene	1	ug/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	VOCs	Bromodichloromethane	1	ug/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	VOCs	Bromoform	1	ug/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	VOCs	Bromomethane	1	ug/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	VOCs	Carbon Dioxide	92	ug/L	T B J N	
Surface Water	SW-SA2-GMCS-2	2/25/2009	VOCs	Carbon Disulfide	2	ug/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	VOCs	Carbon Tetrachloride	1	ug/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	VOCs	Chlorobenzene	1	ug/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	VOCs	Chlorodibromomethane	1	ug/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	VOCs	Chloroethane	1	ug/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	VOCs	Chloroform	1	ug/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	VOCs	Chloromethane	1	ug/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	VOCs	cis-1,2-Dichloroethene	1	ug/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	VOCs	cis-1,3-Dichloropropene	1	ug/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	VOCs	Dichloromethane	5	ug/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	VOCs	Ethylbenzene	1	ug/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	VOCs	Methyl N-Butyl Ketone	10	ug/L	U *	
Surface Water	SW-SA2-GMCS-2	2/25/2009	VOCs	Styrene (Monomer)	1	ug/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	VOCs	Tetrachloroethene	1	ug/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	VOCs	Toluene	1	ug/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	VOCs	trans-1,2-Dichloroethene	1	ug/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	VOCs	trans-1,3-Dichloropropene	1	ug/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	VOCs	Trichloroethene	1	ug/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	VOCs	Vinyl chloride	1	ug/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	VOCs	Xylenes, Total	2	ug/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	SVOCs	1,2,4-Trichlorobenzene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	SVOCs	1,2-Dichlorobenzene	9.7	ug/L	U	

Sauget Area 2
Groundwater Migration Control System
Surface Water Sample Results
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Surface Water	SW-SA2-GMCS-2	2/25/2009	VOCs	1,1,1-Trichloroethane	1	ug/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	SVOCs	1,3-Dichlorobenzene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	SVOCs	1,4-Dichlorobenzene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	SVOCs	2,2'-Oxybis(1-Chloropropane) (bis-2-chloroisopropyl ether)	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	SVOCs	2,4,5-Trichlorophenol	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	SVOCs	2,4,6-Trichlorophenol	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	SVOCs	2,4-Dichlorophenol	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	SVOCs	2,4-Dimethylphenol	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	SVOCs	2,4-Dinitrophenol	49	ug/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	SVOCs	2,4-Dinitrotoluene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	SVOCs	2,6-Dinitrotoluene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	SVOCs	2-Chloronaphthalene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	SVOCs	2-Chlorophenol	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	SVOCs	2-Methylnaphthalene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	SVOCs	2-Methylphenol (o-Cresol)	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	SVOCs	2-Nitroaniline	49	ug/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	SVOCs	2-Nitrophenol	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	SVOCs	3 & 4 Methylphenol	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	SVOCs	3,3'-Dichlorobenzidine	19	ug/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	SVOCs	3-Nitroaniline	49	ug/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	SVOCs	4,6-Dinitro-2-methylphenol	49	ug/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	SVOCs	4-Bromophenyl Phenyl Ether	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	SVOCs	4-Chloro-3-methylphenol	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	SVOCs	4-Chlorophenyl Phenyl Ether	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	SVOCs	4-Nitrophenol	49	ug/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	SVOCs	Acenaphthene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	SVOCs	Acenaphthylene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	SVOCs	Anthracene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	SVOCs	Benzo(a)anthracene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	SVOCs	Benzo(a)pyrene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	SVOCs	Benzo(b)fluoranthene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	SVOCs	Benzo(g,h,i)perylene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	SVOCs	Benzo(k)fluoranthene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	SVOCs	Benzyl Butyl Phthalate	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	SVOCs	bis(2-Chloroethoxy)methane	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	SVOCs	bis(2-Chloroethyl)ether	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	SVOCs	bis(2-Ethylhexyl)phthalate	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	SVOCs	Carbazole	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	SVOCs	Chrysene	9.7	ug/L	U	

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Surface Water Sample Results
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Surface Water	SW-SA2-GMCS-2	2/25/2009	VOCs	1,1,1-Trichloroethane	1	ug/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	SVOCs	Dibenzo(a,h)anthracene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	SVOCs	Dibenzofuran	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	SVOCs	Diethyl Phthalate	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	SVOCs	Dimethyl Phthalate	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	SVOCs	Di-n-butylphthalate	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	SVOCs	Di-n-octylphthalate	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	SVOCs	Dinoseb	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	SVOCs	Fluoranthene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	SVOCs	Fluorene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	SVOCs	Hexachlorobenzene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	SVOCs	Hexachlorobutadiene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	SVOCs	Hexachlorocyclopentadiene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	SVOCs	Hexachloroethane	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	SVOCs	Indeno(1,2,3-cd)pyrene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	SVOCs	Isophorone	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	SVOCs	Naphthalene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	SVOCs	Nitrobenzene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	SVOCs	N-Nitroso-di-n-propylamine	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	SVOCs	N-Nitrosodiphenylamine	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	SVOCs	P-Chloroaniline	19	ug/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	SVOCs	Phenanthrene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	SVOCs	Phenol	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	SVOCs	P-Nitroaniline	49	ug/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	SVOCs	Pyrene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	Pesticides	4,4'-DDD	0.097	ug/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	Pesticides	4,4'-DDE	0.097	ug/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	Pesticides	4,4'-DDT	0.097	ug/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	Pesticides	Aldrin	0.049	ug/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	Pesticides	alpha-BHC	0.049	ug/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	Pesticides	alpha-Chlordane	0.049	ug/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	Pesticides	beta-BHC	0.049	ug/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	Pesticides	delta-BHC	0.049	ug/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	Pesticides	Dieldrin	0.097	ug/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	Pesticides	Endosulfan I	0.049	ug/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	Pesticides	Endosulfan II	0.097	ug/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	Pesticides	Endosulfan Sulfate	0.097	ug/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	Pesticides	Endrin	0.097	ug/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	Pesticides	Endrin Aldehyde	0.097	ug/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	Pesticides	Endrin Ketone	0.097	ug/L	U	

Sauget Area 2
Groundwater Migration Control System
Surface Water Sample Results
February 2009

Surface Water	SW-SA2-GMCS-2	2/25/2009	VOCs	1,1,1-Trichloroethane	1	ug/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	Pesticides	gamma-BHC (Lindane)	0.049	ug/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	Pesticides	gamma-Chlordane	0.049	ug/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	Pesticides	Heptachlor	0.049	ug/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	Pesticides	Heptachlor Epoxide	0.049	ug/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	Pesticides	Methoxychlor	0.49	ug/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	Pesticides	Toxaphene	4.9	ug/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	Herbicides	2,4,5-T	0.48	ug/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	Herbicides	2,4,5-TP (Silvex)	0.48	ug/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	Herbicides	2,4-D	0.48	ug/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	Herbicides	2,4-DB	0.48	ug/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	Herbicides	Dalapon	9.5	ug/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	Herbicides	Dicamba	0.48	ug/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	Herbicides	Dichlorprop	0.25	ug/L	J p	
Surface Water	SW-SA2-GMCS-2	2/25/2009	Herbicides	MCPA (2-Methyl-4-Chlorophenoxyacetic Acid)	110	ug/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	Herbicides	MCPP	110	ug/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	Herbicides	Pentachlorophenol	0.24	ug/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	Metals	Aluminum	2.5	mg/L		
Surface Water	SW-SA2-GMCS-2	2/25/2009	Metals	Aluminum (Dissolved)	0.2	mg/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	Metals	Antimony	0.02	mg/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	Metals	Antimony (Dissolved)	0.02	mg/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	Metals	Arsenic	0.01	mg/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	Metals	Arsenic (Dissolved)	0.01	mg/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	Metals	Barium	0.078	mg/L		
Surface Water	SW-SA2-GMCS-2	2/25/2009	Metals	Barium (Dissolved)	0.061	mg/L		
Surface Water	SW-SA2-GMCS-2	2/25/2009	Metals	Beryllium	0.004	mg/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	Metals	Beryllium (Dissolved)	0.004	mg/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	Metals	Cadmium	0.005	mg/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	Metals	Cadmium (Dissolved)	0.005	mg/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	Metals	Calcium	55	mg/L		
Surface Water	SW-SA2-GMCS-2	2/25/2009	Metals	Calcium (Dissolved)	57	mg/L		
Surface Water	SW-SA2-GMCS-2	2/25/2009	Metals	Chromium	0.0034	mg/L	J	
Surface Water	SW-SA2-GMCS-2	2/25/2009	Metals	Chromium (Dissolved)	0.01	mg/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	Metals	Cobalt	0.0009	mg/L	J	
Surface Water	SW-SA2-GMCS-2	2/25/2009	Metals	Cobalt (Dissolved)	0.01	mg/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	Metals	Copper	0.0047	mg/L	J	
Surface Water	SW-SA2-GMCS-2	2/25/2009	Metals	Copper (Dissolved)	0.02	mg/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	Metals	Iron	2.7	mg/L		
Surface Water	SW-SA2-GMCS-2	2/25/2009	Metals	Iron (Dissolved)	0.045	mg/L	J	

Sauget Area 2
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Surface Water Sample Results
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Surface Water	SW-SA2-GMCS-2	2/25/2009	VOCs	1,1,1-Trichloroethane	1	ug/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	Metals	Lead	0.005	mg/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	Metals	Lead (Dissolved)	0.005	mg/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	Metals	Magnesium	22	mg/L		
Surface Water	SW-SA2-GMCS-2	2/25/2009	Metals	Magnesium (Dissolved)	22	mg/L		
Surface Water	SW-SA2-GMCS-2	2/25/2009	Metals	Manganese	0.083	mg/L		
Surface Water	SW-SA2-GMCS-2	2/25/2009	Metals	Manganese (Dissolved)	0.0049	mg/L	J	
Surface Water	SW-SA2-GMCS-2	2/25/2009	Metals	Mercury	0.0002	mg/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	Metals	Nickel	0.0031	mg/L	J	
Surface Water	SW-SA2-GMCS-2	2/25/2009	Metals	Nickel (Dissolved)	0.002	mg/L	J	
Surface Water	SW-SA2-GMCS-2	2/25/2009	Metals	Potassium	5.4	mg/L		
Surface Water	SW-SA2-GMCS-2	2/25/2009	Metals	Potassium (Dissolved)	5.1	mg/L		
Surface Water	SW-SA2-GMCS-2	2/25/2009	Metals	Selenium	0.01	mg/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	Metals	Selenium (Dissolved)	0.01	mg/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	Metals	Silver	0.01	mg/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	Metals	Silver (Dissolved)	0.01	mg/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	Metals	Sodium	33	mg/L		
Surface Water	SW-SA2-GMCS-2	2/25/2009	Metals	Sodium (Dissolved)	34	mg/L		
Surface Water	SW-SA2-GMCS-2	2/25/2009	Metals	Thallium	0.025	mg/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	Metals	Thallium (Dissolved)	0.025	mg/L	U	
Surface Water	SW-SA2-GMCS-2	2/25/2009	Metals	Vanadium	0.0057	mg/L	J	
Surface Water	SW-SA2-GMCS-2	2/25/2009	Metals	Vanadium (Dissolved)	0.0018	mg/L	J	
Surface Water	SW-SA2-GMCS-2	2/25/2009	Metals	Zinc	0.014	mg/L	J	
Surface Water	SW-SA2-GMCS-2	2/25/2009	Metals	Zinc (Dissolved)	0.02	mg/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	VOCs	1,1,1-Trichloroethane	1	ug/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	VOCs	1,1,2,2-Tetrachloroethane	1	ug/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	VOCs	1,1,2-Trichloroethane	1	ug/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	VOCs	1,1-Dichloroethane	1	ug/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	VOCs	1,1-Dichloroethylene	1	ug/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	VOCs	1,2-Dichloroethane	1	ug/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	VOCs	1,2-Dichloroethene (total)	2	ug/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	VOCs	1,2-Dichloropropane	1	ug/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	VOCs	2-Butanone (MEK)	10	ug/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	VOCs	4-Methyl-2-pentanone (MIBK)	10	ug/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	VOCs	Acetone	25	ug/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	VOCs	Benzene	1	ug/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	VOCs	Bromodichloromethane	1	ug/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	VOCs	Bromoform	1	ug/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	VOCs	Bromomethane	1	ug/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	VOCs	Carbon Dioxide	87	ug/L	T B J N	

Sauget Area 2
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Surface Water	SW-SA2-GMCS-2	2/25/2009	VOCs	1,1,1-Trichloroethane	1	ug/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	VOCs	Carbon Disulfide	2	ug/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	VOCs	Carbon Tetrachloride	1	ug/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	VOCs	Chlorobenzene	1	ug/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	VOCs	Chlorodibromomethane	1	ug/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	VOCs	Chloroethane	1	ug/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	VOCs	Chloroform	1	ug/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	VOCs	Chloromethane	1	ug/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	VOCs	cis-1,2-Dichloroethene	1	ug/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	VOCs	cis-1,3-Dichloropropene	1	ug/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	VOCs	Dichloromethane	5	ug/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	VOCs	Ethylbenzene	1	ug/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	VOCs	Methyl N-Butyl Ketone	10	ug/L	U *	
Surface Water	SW-SA2-GMCS-3	2/25/2009	VOCs	Styrene (Monomer)	1	ug/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	VOCs	Sulfur dioxide	560	ug/L	T J N	
Surface Water	SW-SA2-GMCS-3	2/25/2009	VOCs	Tetrachloroethene	1	ug/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	VOCs	Toluene	1	ug/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	VOCs	trans-1,2-Dichloroethene	1	ug/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	VOCs	trans-1,3-Dichloropropene	1	ug/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	VOCs	Trichloroethene	1	ug/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	VOCs	Vinyl chloride	1	ug/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	VOCs	Xylenes, Total	2	ug/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	SVOCs	1,2,4-Trichlorobenzene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	SVOCs	1,2-Dichlorobenzene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	SVOCs	1,3-Dichlorobenzene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	SVOCs	1,4-Dichlorobenzene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	SVOCs	2,2'-Oxybis(1-Chloropropane) (bis-2-chloroisopropyl ether)	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	SVOCs	2,4,5-Trichlorophenol	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	SVOCs	2,4,6-Trichlorophenol	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	SVOCs	2,4-Dichlorophenol	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	SVOCs	2,4-Dimethylphenol	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	SVOCs	2,4-Dinitrophenol	49	ug/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	SVOCs	2,4-Dinitrotoluene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	SVOCs	2,6-Dinitrotoluene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	SVOCs	2-Chloronaphthalene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	SVOCs	2-Chlorophenol	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	SVOCs	2-Methylnaphthalene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	SVOCs	2-Methylphenol (o-Cresol)	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	SVOCs	2-Nitroaniline	49	ug/L	U	

Sauget Area 2
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Surface Water Sample Results
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Surface Water	SW-SA2-GMCS-2	2/25/2009	VOCs	1,1,1-Trichloroethane	1	ug/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	SVOCs	2-Nitrophenol	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	SVOCs	3 & 4 Methylphenol	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	SVOCs	3,3'-Dichlorobenzidine	19	ug/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	SVOCs	3-Nitroaniline	49	ug/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	SVOCs	4,6-Dinitro-2-methylphenol	49	ug/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	SVOCs	4-Bromophenyl Phenyl Ether	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	SVOCs	4-Chloro-3-methylphenol	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	SVOCs	4-Chlorophenyl Phenyl Ether	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	SVOCs	4-Nitrophenol	49	ug/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	SVOCs	Acenaphthene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	SVOCs	Acenaphthylene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	SVOCs	Anthracene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	SVOCs	Benzo(a)anthracene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	SVOCs	Benzo(a)pyrene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	SVOCs	Benzo(b)fluoranthene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	SVOCs	Benzo(g,h,i)perylene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	SVOCs	Benzo(k)fluoranthene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	SVOCs	Benzyl Butyl Phthalate	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	SVOCs	bis(2-Chloroethoxy)methane	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	SVOCs	bis(2-Chloroethyl)ether	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	SVOCs	bis(2-Ethylhexyl)phthalate	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	SVOCs	Carbazole	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	SVOCs	Chrysene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	SVOCs	Dibenzo(a,h)anthracene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	SVOCs	Dibenzofuran	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	SVOCs	Diethyl Phthalate	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	SVOCs	Dimethyl Phthalate	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	SVOCs	Di-n-butylphthalate	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	SVOCs	Di-n-octylphthalate	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	SVOCs	Dinoseb	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	SVOCs	Fluoranthene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	SVOCs	Fluorene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	SVOCs	Hexachlorobenzene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	SVOCs	Hexachlorobutadiene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	SVOCs	Hexachlorocyclopentadiene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	SVOCs	Hexachloroethane	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	SVOCs	Indeno(1,2,3-cd)pyrene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	SVOCs	Isophorone	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	SVOCs	Naphthalene	9.7	ug/L	U	

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Surface Water Sample Results
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Surface Water	SW-SA2-GMCS-2	2/25/2009	VOCs	1,1,1-Trichloroethane	1	ug/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	SVOCs	Nitrobenzene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	SVOCs	N-Nitroso-di-n-propylamine	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	SVOCs	N-Nitrosodiphenylamine	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	SVOCs	P-Chloroaniline	19	ug/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	SVOCs	Phenanthrene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	SVOCs	Phenol	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	SVOCs	P-Nitroaniline	49	ug/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	SVOCs	Pyrene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	Pesticides	4,4'-DDD	0.097	ug/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	Pesticides	4,4'-DDE	0.097	ug/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	Pesticides	4,4'-DDT	0.097	ug/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	Pesticides	Aldrin	0.049	ug/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	Pesticides	alpha-BHC	0.049	ug/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	Pesticides	alpha-Chlordane	0.049	ug/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	Pesticides	beta-BHC	0.049	ug/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	Pesticides	delta-BHC	0.049	ug/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	Pesticides	Dieldrin	0.097	ug/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	Pesticides	Endosulfan I	0.049	ug/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	Pesticides	Endosulfan II	0.097	ug/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	Pesticides	Endosulfan Sulfate	0.097	ug/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	Pesticides	Endrin	0.097	ug/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	Pesticides	Endrin Aldehyde	0.097	ug/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	Pesticides	Endrin Ketone	0.097	ug/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	Pesticides	gamma-BHC (Lindane)	0.049	ug/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	Pesticides	gamma-Chlordane	0.049	ug/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	Pesticides	Heptachlor	0.049	ug/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	Pesticides	Heptachlor Epoxide	0.049	ug/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	Pesticides	Methoxychlor	0.49	ug/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	Pesticides	Toxaphene	4.9	ug/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	Herbicides	2,4,5-T	0.49	ug/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	Herbicides	2,4,5-TP (Silvex)	0.49	ug/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	Herbicides	2,4-D	0.49	ug/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	Herbicides	2,4-DB	0.49	ug/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	Herbicides	Dalapon	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	Herbicides	Dicamba	0.49	ug/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	Herbicides	Dichlorprop	0.24	ug/L	J p	
Surface Water	SW-SA2-GMCS-3	2/25/2009	Herbicides	MCPA (2-Methyl-4-Chlorophenoxyacetic Acid)	120	ug/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	Herbicides	MCPP	120	ug/L	U	

Sauget Area 2
Groundwater Migration Control System
Surface Water Sample Results
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Surface Water	SW-SA2-GMCS-2	2/25/2009	VOCs	1,1,1-Trichloroethane	1	ug/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	Herbicides	Pentachlorophenol	0.24	ug/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	Metals	Aluminum	2.7	mg/L		
Surface Water	SW-SA2-GMCS-3	2/25/2009	Metals	Aluminum (Dissolved)	0.2	mg/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	Metals	Antimony	0.02	mg/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	Metals	Antimony (Dissolved)	0.0054	mg/L	J	
Surface Water	SW-SA2-GMCS-3	2/25/2009	Metals	Arsenic	0.0053	mg/L	J	U
Surface Water	SW-SA2-GMCS-3	2/25/2009	Metals	Arsenic (Dissolved)	0.01	mg/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	Metals	Barium	0.085	mg/L		
Surface Water	SW-SA2-GMCS-3	2/25/2009	Metals	Barium (Dissolved)	0.061	mg/L		
Surface Water	SW-SA2-GMCS-3	2/25/2009	Metals	Beryllium	0.004	mg/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	Metals	Beryllium (Dissolved)	0.004	mg/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	Metals	Cadmium	0.005	mg/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	Metals	Cadmium (Dissolved)	0.005	mg/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	Metals	Calcium	59	mg/L		
Surface Water	SW-SA2-GMCS-3	2/25/2009	Metals	Calcium (Dissolved)	56	mg/L		
Surface Water	SW-SA2-GMCS-3	2/25/2009	Metals	Chromium	0.0036	mg/L	J	
Surface Water	SW-SA2-GMCS-3	2/25/2009	Metals	Chromium (Dissolved)	0.01	mg/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	Metals	Cobalt	0.01	mg/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	Metals	Cobalt (Dissolved)	0.01	mg/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	Metals	Copper	0.0058	mg/L	J	
Surface Water	SW-SA2-GMCS-3	2/25/2009	Metals	Copper (Dissolved)	0.02	mg/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	Metals	Iron	3	mg/L		
Surface Water	SW-SA2-GMCS-3	2/25/2009	Metals	Iron (Dissolved)	0.052	mg/L		
Surface Water	SW-SA2-GMCS-3	2/25/2009	Metals	Lead	0.0035	mg/L	J	
Surface Water	SW-SA2-GMCS-3	2/25/2009	Metals	Lead (Dissolved)	0.005	mg/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	Metals	Magnesium	23	mg/L		
Surface Water	SW-SA2-GMCS-3	2/25/2009	Metals	Magnesium (Dissolved)	22	mg/L		
Surface Water	SW-SA2-GMCS-3	2/25/2009	Metals	Manganese	0.091	mg/L		
Surface Water	SW-SA2-GMCS-3	2/25/2009	Metals	Manganese (Dissolved)	0.01	mg/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	Metals	Mercury	0.0002	mg/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	Metals	Nickel	0.0045	mg/L	J	
Surface Water	SW-SA2-GMCS-3	2/25/2009	Metals	Nickel (Dissolved)	0.04	mg/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	Metals	Potassium	5.9	mg/L		
Surface Water	SW-SA2-GMCS-3	2/25/2009	Metals	Potassium (Dissolved)	5.1	mg/L		
Surface Water	SW-SA2-GMCS-3	2/25/2009	Metals	Selenium	0.01	mg/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	Metals	Selenium (Dissolved)	0.01	mg/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	Metals	Silver	0.01	mg/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	Metals	Silver (Dissolved)	0.01	mg/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	Metals	Sodium	36	mg/L		

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Surface Water	SW-SA2-GMCS-2	2/25/2009	VOCs	1,1,1-Trichloroethane	1	ug/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	Metals	Sodium (Dissolved)	35	mg/L		
Surface Water	SW-SA2-GMCS-3	2/25/2009	Metals	Thallium	0.025	mg/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	Metals	Thallium (Dissolved)	0.025	mg/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	Metals	Vanadium	0.0065	mg/L	J	
Surface Water	SW-SA2-GMCS-3	2/25/2009	Metals	Vanadium (Dissolved)	0.01	mg/L	U	
Surface Water	SW-SA2-GMCS-3	2/25/2009	Metals	Zinc	0.015	mg/L	J	
Surface Water	SW-SA2-GMCS-3	2/25/2009	Metals	Zinc (Dissolved)	0.02	mg/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	VOCs	1,1,1-Trichloroethane	1	ug/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	VOCs	1,1,2,2-Tetrachloroethane	1	ug/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	VOCs	1,1,2-Trichloroethane	1	ug/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	VOCs	1,1-Dichloroethane	1	ug/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	VOCs	1,1-Dichloroethylene	1	ug/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	VOCs	1,2-Dichloroethane	1	ug/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	VOCs	1,2-Dichloroethene (total)	2	ug/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	VOCs	1,2-Dichloropropane	1	ug/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	VOCs	2-Butanone (MEK)	0.67	ug/L	J	U
Surface Water	SW-SA2-GMCS-4	2/25/2009	VOCs	4-Methyl-2-pentanone (MIBK)	10	ug/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	VOCs	Acetone	25	ug/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	VOCs	Benzene	1	ug/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	VOCs	Bromodichloromethane	1	ug/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	VOCs	Bromoform	1	ug/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	VOCs	Bromomethane	1	ug/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	VOCs	Carbon Dioxide	88	ug/L	T B J N	
Surface Water	SW-SA2-GMCS-4	2/25/2009	VOCs	Carbon Disulfide	2	ug/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	VOCs	Carbon Tetrachloride	1	ug/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	VOCs	Chlorobenzene	1	ug/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	VOCs	Chlorodibromomethane	1	ug/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	VOCs	Chloroethane	1	ug/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	VOCs	Chloroform	1	ug/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	VOCs	Chloromethane	1	ug/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	VOCs	cis-1,2-Dichloroethene	1	ug/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	VOCs	cis-1,3-Dichloropropene	1	ug/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	VOCs	Dichloromethane	5	ug/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	VOCs	Ethylbenzene	1	ug/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	VOCs	Methyl N-Butyl Ketone	10	ug/L	U *	
Surface Water	SW-SA2-GMCS-4	2/25/2009	VOCs	Styrene (Monomer)	1	ug/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	VOCs	Tetrachloroethene	1	ug/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	VOCs	Toluene	1	ug/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	VOCs	trans-1,2-Dichloroethene	1	ug/L	U	

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Surface Water	SW-SA2-GMCS-2	2/25/2009	VOCs	1,1,1-Trichloroethane	1	ug/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	VOCs	trans-1,3-Dichloropropene	1	ug/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	VOCs	Trichloroethene	1	ug/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	VOCs	Vinyl chloride	1	ug/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	VOCs	Xylenes, Total	2	ug/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	SVOCs	1,2,4-Trichlorobenzene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	SVOCs	1,2-Dichlorobenzene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	SVOCs	1,3-Dichlorobenzene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	SVOCs	1,4-Dichlorobenzene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	SVOCs	2,2'-Oxybis(1-Chloropropane) (bis-2-chloroisopropyl ether)	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	SVOCs	2,4,5-Trichlorophenol	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	SVOCs	2,4,6-Trichlorophenol	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	SVOCs	2,4-Dichlorophenol	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	SVOCs	2,4-Dimethylphenol	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	SVOCs	2,4-Dinitrophenol	49	ug/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	SVOCs	2,4-Dinitrotoluene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	SVOCs	2,6-Dinitrotoluene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	SVOCs	2-Chloronaphthalene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	SVOCs	2-Chlorophenol	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	SVOCs	2-Methylnaphthalene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	SVOCs	2-Methylphenol (o-Cresol)	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	SVOCs	2-Nitroaniline	49	ug/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	SVOCs	2-Nitrophenol	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	SVOCs	3 & 4 Methylphenol	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	SVOCs	3,3'-Dichlorobenzidine	19	ug/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	SVOCs	3-Nitroaniline	49	ug/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	SVOCs	4,6-Dinitro-2-methylphenol	49	ug/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	SVOCs	4-Bromophenyl Phenyl Ether	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	SVOCs	4-Chloro-3-methylphenol	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	SVOCs	4-Chlorophenyl Phenyl Ether	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	SVOCs	4-Nitrophenol	49	ug/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	SVOCs	Acenaphthene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	SVOCs	Acenaphthylene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	SVOCs	Anthracene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	SVOCs	Benzo(a)anthracene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	SVOCs	Benzo(a)pyrene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	SVOCs	Benzo(b)fluoranthene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	SVOCs	Benzo(g,h,i)perylene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	SVOCs	Benzo(k)fluoranthene	9.7	ug/L	U	

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Surface Water Sample Results
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Surface Water	SW-SA2-GMCS-2	2/25/2009	VOCs	1,1,1-Trichloroethane	1	ug/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	SVOCs	Benzyl Butyl Phthalate	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	SVOCs	bis(2-Chloroethoxy)methane	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	SVOCs	bis(2-Chloroethyl)ether	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	SVOCs	bis(2-Ethylhexyl)phthalate	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	SVOCs	Carbazole	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	SVOCs	Chrysene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	SVOCs	Dibenzo(a,h)anthracene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	SVOCs	Dibenzofuran	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	SVOCs	Diethyl Phthalate	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	SVOCs	Dimethyl Phthalate	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	SVOCs	Di-n-butylphthalate	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	SVOCs	Di-n-octylphthalate	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	SVOCs	Dinoseb	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	SVOCs	Fluoranthene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	SVOCs	Fluorene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	SVOCs	Hexachlorobenzene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	SVOCs	Hexachlorobutadiene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	SVOCs	Hexachlorocyclopentadiene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	SVOCs	Hexachloroethane	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	SVOCs	Indeno(1,2,3-cd)pyrene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	SVOCs	Isophorone	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	SVOCs	Naphthalene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	SVOCs	Nitrobenzene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	SVOCs	N-Nitroso-di-n-propylamine	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	SVOCs	N-Nitrosodiphenylamine	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	SVOCs	P-Chloroaniline	19	ug/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	SVOCs	Phenanthrene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	SVOCs	Phenol	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	SVOCs	P-Nitroaniline	49	ug/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	SVOCs	Pyrene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	Pesticides	4,4'-DDD	0.097	ug/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	Pesticides	4,4'-DDE	0.097	ug/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	Pesticides	4,4'-DDT	0.097	ug/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	Pesticides	Aldrin	0.049	ug/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	Pesticides	alpha-BHC	0.049	ug/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	Pesticides	alpha-Chlordane	0.049	ug/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	Pesticides	beta-BHC	0.049	ug/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	Pesticides	delta-BHC	0.049	ug/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	Pesticides	Dieldrin	0.097	ug/L	U	

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Surface Water	SW-SA2-GMCS-2	2/25/2009	VOCs	1,1,1-Trichloroethane	1	ug/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	Pesticides	Endosulfan I	0.049	ug/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	Pesticides	Endosulfan II	0.097	ug/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	Pesticides	Endosulfan Sulfate	0.097	ug/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	Pesticides	Endrin	0.097	ug/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	Pesticides	Endrin Aldehyde	0.097	ug/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	Pesticides	Endrin Ketone	0.097	ug/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	Pesticides	gamma-BHC (Lindane)	0.049	ug/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	Pesticides	gamma-Chlordane	0.049	ug/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	Pesticides	Heptachlor	0.049	ug/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	Pesticides	Heptachlor Epoxide	0.049	ug/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	Pesticides	Methoxychlor	0.49	ug/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	Pesticides	Toxaphene	4.9	ug/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	Herbicides	2,4,5-T	0.5	ug/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	Herbicides	2,4,5-TP (Silvex)	0.5	ug/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	Herbicides	2,4-D	0.5	ug/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	Herbicides	2,4-DB	0.5	ug/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	Herbicides	Dalapon	9.9	ug/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	Herbicides	Dicamba	0.5	ug/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	Herbicides	Dichlorprop	0.31	ug/L	J p	
Surface Water	SW-SA2-GMCS-4	2/25/2009	Herbicides	MCPA (2-Methyl-4-Chlorophenoxyacetic Acid)	120	ug/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	Herbicides	MCPP	120	ug/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	Herbicides	Pentachlorophenol	0.25	ug/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	Metals	Aluminum	3.1	mg/L		
Surface Water	SW-SA2-GMCS-4	2/25/2009	Metals	Aluminum (Dissolved)	0.2	mg/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	Metals	Antimony	0.02	mg/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	Metals	Antimony (Dissolved)	0.02	mg/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	Metals	Arsenic	0.01	mg/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	Metals	Arsenic (Dissolved)	0.01	mg/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	Metals	Barium	0.08	mg/L		
Surface Water	SW-SA2-GMCS-4	2/25/2009	Metals	Barium (Dissolved)	0.058	mg/L		
Surface Water	SW-SA2-GMCS-4	2/25/2009	Metals	Beryllium	0.004	mg/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	Metals	Beryllium (Dissolved)	0.004	mg/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	Metals	Cadmium	0.005	mg/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	Metals	Cadmium (Dissolved)	0.005	mg/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	Metals	Calcium	54	mg/L		
Surface Water	SW-SA2-GMCS-4	2/25/2009	Metals	Calcium (Dissolved)	53	mg/L		
Surface Water	SW-SA2-GMCS-4	2/25/2009	Metals	Chromium	0.0038	mg/L	J	
Surface Water	SW-SA2-GMCS-4	2/25/2009	Metals	Chromium (Dissolved)	0.01	mg/L	U	

Sauget Area 2
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Surface Water Sample Results
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Surface Water	SW-SA2-GMCS-2	2/25/2009	VOCs	1,1,1-Trichloroethane	1	ug/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	Metals	Cobalt	0.0015	mg/L	J	
Surface Water	SW-SA2-GMCS-4	2/25/2009	Metals	Cobalt (Dissolved)	0.01	mg/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	Metals	Copper	0.01	mg/L	J	
Surface Water	SW-SA2-GMCS-4	2/25/2009	Metals	Copper (Dissolved)	0.02	mg/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	Metals	Iron	3.3	mg/L		
Surface Water	SW-SA2-GMCS-4	2/25/2009	Metals	Iron (Dissolved)	0.065	mg/L		
Surface Water	SW-SA2-GMCS-4	2/25/2009	Metals	Lead	0.003	mg/L	J	
Surface Water	SW-SA2-GMCS-4	2/25/2009	Metals	Lead (Dissolved)	0.005	mg/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	Metals	Magnesium	21	mg/L		
Surface Water	SW-SA2-GMCS-4	2/25/2009	Metals	Magnesium (Dissolved)	21	mg/L		
Surface Water	SW-SA2-GMCS-4	2/25/2009	Metals	Manganese	0.085	mg/L		
Surface Water	SW-SA2-GMCS-4	2/25/2009	Metals	Manganese (Dissolved)	0.01	mg/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	Metals	Mercury	0.0002	mg/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	Metals	Nickel	0.005	mg/L	J	
Surface Water	SW-SA2-GMCS-4	2/25/2009	Metals	Nickel (Dissolved)	0.04	mg/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	Metals	Potassium	5.4	mg/L		
Surface Water	SW-SA2-GMCS-4	2/25/2009	Metals	Potassium (Dissolved)	4.8	mg/L		
Surface Water	SW-SA2-GMCS-4	2/25/2009	Metals	Selenium	0.01	mg/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	Metals	Selenium (Dissolved)	0.01	mg/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	Metals	Silver	0.01	mg/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	Metals	Silver (Dissolved)	0.01	mg/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	Metals	Sodium	32	mg/L		
Surface Water	SW-SA2-GMCS-4	2/25/2009	Metals	Sodium (Dissolved)	33	mg/L		
Surface Water	SW-SA2-GMCS-4	2/25/2009	Metals	Thallium	0.025	mg/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	Metals	Thallium (Dissolved)	0.025	mg/L	U	
Surface Water	SW-SA2-GMCS-4	2/25/2009	Metals	Vanadium	0.0068	mg/L	J	
Surface Water	SW-SA2-GMCS-4	2/25/2009	Metals	Vanadium (Dissolved)	0.0018	mg/L	J	
Surface Water	SW-SA2-GMCS-4	2/25/2009	Metals	Zinc	0.019	mg/L	J	
Surface Water	SW-SA2-GMCS-4	2/25/2009	Metals	Zinc (Dissolved)	0.02	mg/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	VOCs	1,1,1-Trichloroethane	1	ug/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	VOCs	1,1,2,2-Tetrachloroethane	1	ug/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	VOCs	1,1,2-Trichloroethane	1	ug/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	VOCs	1,1-Dichloroethane	1	ug/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	VOCs	1,1-Dichloroethylene	1	ug/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	VOCs	1,2-Dichloroethane	1	ug/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	VOCs	1,2-Dichloroethene (total)	2	ug/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	VOCs	1,2-Dichloropropane	1	ug/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	VOCs	2-Butanone (MEK)	10	ug/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	VOCs	4-Methyl-2-pentanone (MIBK)	10	ug/L	U	

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Surface Water	SW-SA2-GMCS-2	2/25/2009	VOCs	1,1,1-Trichloroethane	1	ug/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	VOCs	Acetone	25	ug/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	VOCs	Benzene	1	ug/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	VOCs	Bromodichloromethane	1	ug/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	VOCs	Bromoform	1	ug/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	VOCs	Bromomethane	1	ug/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	VOCs	Carbon Dioxide	92	ug/L	T B J N	
Surface Water	SW-SA2-GMCS-5	2/25/2009	VOCs	Carbon Disulfide	2	ug/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	VOCs	Carbon Tetrachloride	1	ug/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	VOCs	Chlorobenzene	1	ug/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	VOCs	Chlorodibromomethane	1	ug/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	VOCs	Chloroethane	1	ug/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	VOCs	Chloroform	1	ug/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	VOCs	Chloromethane	1	ug/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	VOCs	cis-1,2-Dichloroethene	1	ug/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	VOCs	cis-1,3-Dichloropropene	1	ug/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	VOCs	Dichloromethane	5	ug/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	VOCs	Ethylbenzene	1	ug/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	VOCs	Methyl N-Butyl Ketone	10	ug/L	U *	
Surface Water	SW-SA2-GMCS-5	2/25/2009	VOCs	Styrene (Monomer)	1	ug/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	VOCs	Sulfur dioxide	900	ug/L	T J N	
Surface Water	SW-SA2-GMCS-5	2/25/2009	VOCs	Tetrachloroethene	1	ug/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	VOCs	Toluene	1	ug/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	VOCs	trans-1,2-Dichloroethene	1	ug/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	VOCs	trans-1,3-Dichloropropene	1	ug/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	VOCs	Trichloroethene	1	ug/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	VOCs	Vinyl chloride	1	ug/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	VOCs	Xylenes, Total	2	ug/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	SVOCs	1,2,4-Trichlorobenzene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	SVOCs	1,2-Dichlorobenzene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	SVOCs	1,3-Dichlorobenzene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	SVOCs	1,4-Dichlorobenzene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	SVOCs	2,2'-Oxybis(1-Chloropropane) (bis-2-chloroisopropyl ether)	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	SVOCs	2,4,5-Trichlorophenol	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	SVOCs	2,4,6-Trichlorophenol	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	SVOCs	2,4-Dichlorophenol	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	SVOCs	2,4-Dimethylphenol	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	SVOCs	2,4-Dinitrophenol	49	ug/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	SVOCs	2,4-Dinitrotoluene	9.7	ug/L	U	

Surface Water	SW-SA2-GMCS-2	2/25/2009	VOCs	1,1,1-Trichloroethane	1	ug/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	SVOCs	2,6-Dinitrotoluene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	SVOCs	2-Chloronaphthalene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	SVOCs	2-Chlorophenol	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	SVOCs	2-Methylnaphthalene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	SVOCs	2-Methylphenol (o-Cresol)	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	SVOCs	2-Nitroaniline	49	ug/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	SVOCs	2-Nitrophenol	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	SVOCs	3 & 4 Methylphenol	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	SVOCs	3,3'-Dichlorobenzidine	19	ug/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	SVOCs	3-Nitroaniline	49	ug/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	SVOCs	4,6-Dinitro-2-methylphenol	49	ug/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	SVOCs	4-Bromophenyl Phenyl Ether	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	SVOCs	4-Chloro-3-methylphenol	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	SVOCs	4-Chlorophenyl Phenyl Ether	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	SVOCs	4-Nitrophenol	49	ug/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	SVOCs	Acenaphthene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	SVOCs	Acenaphthylene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	SVOCs	Anthracene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	SVOCs	Benzo(a)anthracene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	SVOCs	Benzo(a)pyrene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	SVOCs	Benzo(b)fluoranthene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	SVOCs	Benzo(g,h,i)perylene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	SVOCs	Benzo(k)fluoranthene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	SVOCs	Benzyl Butyl Phthalate	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	SVOCs	bis(2-Chloroethoxy)methane	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	SVOCs	bis(2-Chloroethyl)ether	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	SVOCs	bis(2-Ethylhexyl)phthalate	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	SVOCs	Carbazole	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	SVOCs	Chrysene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	SVOCs	Dibenzo(a,h)anthracene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	SVOCs	Dibenzofuran	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	SVOCs	Diethyl Phthalate	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	SVOCs	Dimethyl Phthalate	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	SVOCs	Di-n-butylphthalate	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	SVOCs	Di-n-octylphthalate	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	SVOCs	Dinoseb	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	SVOCs	Fluoranthene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	SVOCs	Fluorene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	SVOCs	Hexachlorobenzene	9.7	ug/L	U	

Sauget Area 2
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Surface Water	SW-SA2-GMCS-2	2/25/2009	VOCs	1,1,1-Trichloroethane	1	ug/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	SVOCs	Hexachlorobutadiene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	SVOCs	Hexachlorocyclopentadiene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	SVOCs	Hexachloroethane	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	SVOCs	Indeno(1,2,3-cd)pyrene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	SVOCs	Isophorone	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	SVOCs	Naphthalene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	SVOCs	Nitrobenzene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	SVOCs	N-Nitroso-di-n-propylamine	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	SVOCs	N-Nitrosodiphenylamine	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	SVOCs	P-Chloroaniline	19	ug/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	SVOCs	Phenanthrene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	SVOCs	Phenol	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	SVOCs	P-Nitroaniline	49	ug/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	SVOCs	Pyrene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	Pesticides	4,4'-DDD	0.097	ug/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	Pesticides	4,4'-DDE	0.097	ug/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	Pesticides	4,4'-DDT	0.097	ug/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	Pesticides	Aldrin	0.049	ug/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	Pesticides	alpha-BHC	0.049	ug/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	Pesticides	alpha-Chlordane	0.049	ug/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	Pesticides	beta-BHC	0.049	ug/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	Pesticides	delta-BHC	0.049	ug/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	Pesticides	Dieldrin	0.097	ug/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	Pesticides	Endosulfan I	0.049	ug/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	Pesticides	Endosulfan II	0.097	ug/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	Pesticides	Endosulfan Sulfate	0.097	ug/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	Pesticides	Endrin	0.097	ug/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	Pesticides	Endrin Aldehyde	0.097	ug/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	Pesticides	Endrin Ketone	0.097	ug/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	Pesticides	gamma-BHC (Lindane)	0.049	ug/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	Pesticides	gamma-Chlordane	0.049	ug/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	Pesticides	Heptachlor	0.049	ug/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	Pesticides	Heptachlor Epoxide	0.049	ug/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	Pesticides	Methoxychlor	0.49	ug/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	Pesticides	Toxaphene	4.9	ug/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	Herbicides	2,4,5-T	0.49	ug/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	Herbicides	2,4,5-TP (Silvex)	0.49	ug/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	Herbicides	2,4-D	0.49	ug/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	Herbicides	2,4-DB	0.49	ug/L	U	

Sauget Area 2
Groundwater Migration Control System
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Surface Water	SW-SA2-GMCS-2	2/25/2009	VOCs	1,1,1-Trichloroethane	1	ug/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	Herbicides	Dalapon	9.8	ug/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	Herbicides	Dicamba	0.49	ug/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	Herbicides	Dichlorprop	0.41	ug/L	J	
Surface Water	SW-SA2-GMCS-5	2/25/2009	Herbicides	MCPA (2-Methyl-4-Chlorophenoxyacetic Acid)	120	ug/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	Herbicides	MCPP	120	ug/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	Herbicides	Pentachlorophenol	0.25	ug/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	Metals	Aluminum	0.54	mg/L		J
Surface Water	SW-SA2-GMCS-5	2/25/2009	Metals	Aluminum (Dissolved)	0.2	mg/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	Metals	Antimony	0.02	mg/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	Metals	Antimony (Dissolved)	0.02	mg/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	Metals	Arsenic	0.01	mg/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	Metals	Arsenic (Dissolved)	0.01	mg/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	Metals	Barium	0.069	mg/L		
Surface Water	SW-SA2-GMCS-5	2/25/2009	Metals	Barium (Dissolved)	0.061	mg/L		
Surface Water	SW-SA2-GMCS-5	2/25/2009	Metals	Beryllium	0.004	mg/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	Metals	Beryllium (Dissolved)	0.004	mg/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	Metals	Cadmium	0.005	mg/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	Metals	Cadmium (Dissolved)	0.005	mg/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	Metals	Calcium	53	mg/L		
Surface Water	SW-SA2-GMCS-5	2/25/2009	Metals	Calcium (Dissolved)	56	mg/L		
Surface Water	SW-SA2-GMCS-5	2/25/2009	Metals	Chromium	0.01	mg/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	Metals	Chromium (Dissolved)	0.01	mg/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	Metals	Cobalt	0.01	mg/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	Metals	Cobalt (Dissolved)	0.01	mg/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	Metals	Copper	0.0038	mg/L	J	
Surface Water	SW-SA2-GMCS-5	2/25/2009	Metals	Copper (Dissolved)	0.02	mg/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	Metals	Iron	0.88	mg/L		J
Surface Water	SW-SA2-GMCS-5	2/25/2009	Metals	Iron (Dissolved)	0.073	mg/L		
Surface Water	SW-SA2-GMCS-5	2/25/2009	Metals	Lead	0.0034	mg/L	J	
Surface Water	SW-SA2-GMCS-5	2/25/2009	Metals	Lead (Dissolved)	0.005	mg/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	Metals	Magnesium	21	mg/L		
Surface Water	SW-SA2-GMCS-5	2/25/2009	Metals	Magnesium (Dissolved)	22	mg/L		
Surface Water	SW-SA2-GMCS-5	2/25/2009	Metals	Manganese	0.075	mg/L		
Surface Water	SW-SA2-GMCS-5	2/25/2009	Metals	Manganese (Dissolved)	0.0088	mg/L	J	
Surface Water	SW-SA2-GMCS-5	2/25/2009	Metals	Mercury	0.0002	mg/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	Metals	Nickel	0.0021	mg/L	J	
Surface Water	SW-SA2-GMCS-5	2/25/2009	Metals	Nickel (Dissolved)	0.0022	mg/L	J	
Surface Water	SW-SA2-GMCS-5	2/25/2009	Metals	Potassium	4.9	mg/L		J

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Surface Water	SW-SA2-GMCS-2	2/25/2009	VOCs	1,1,1-Trichloroethane	1	ug/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	Metals	Potassium (Dissolved)	5	mg/L		
Surface Water	SW-SA2-GMCS-5	2/25/2009	Metals	Selenium	0.01	mg/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	Metals	Selenium (Dissolved)	0.01	mg/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	Metals	Silver	0.01	mg/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	Metals	Silver (Dissolved)	0.01	mg/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	Metals	Sodium	32	mg/L		
Surface Water	SW-SA2-GMCS-5	2/25/2009	Metals	Sodium (Dissolved)	34	mg/L		
Surface Water	SW-SA2-GMCS-5	2/25/2009	Metals	Thallium	0.025	mg/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	Metals	Thallium (Dissolved)	0.025	mg/L	U	
Surface Water	SW-SA2-GMCS-5	2/25/2009	Metals	Vanadium	0.0017	mg/L	J	
Surface Water	SW-SA2-GMCS-5	2/25/2009	Metals	Vanadium (Dissolved)	0.0017	mg/L	J	
Surface Water	SW-SA2-GMCS-5	2/25/2009	Metals	Zinc	0.011	mg/L	J	
Surface Water	SW-SA2-GMCS-5	2/25/2009	Metals	Zinc (Dissolved)	0.02	mg/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	VOCs	1,1,1-Trichloroethane	1	ug/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	VOCs	1,1,2,2-Tetrachloroethane	1	ug/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	VOCs	1,1,2-Trichloroethane	1	ug/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	VOCs	1,1-Dichloroethane	1	ug/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	VOCs	1,1-Dichloroethylene	1	ug/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	VOCs	1,2-Dichloroethane	1	ug/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	VOCs	1,2-Dichloroethene (total)	2	ug/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	VOCs	1,2-Dichloropropane	1	ug/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	VOCs	2-Butanone (MEK)	10	ug/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	VOCs	4-Methyl-2-pentanone (MIBK)	10	ug/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	VOCs	Acetone	25	ug/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	VOCs	Benzene	1	ug/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	VOCs	Bromodichloromethane	1	ug/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	VOCs	Bromoform	1	ug/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	VOCs	Bromomethane	1	ug/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	VOCs	Carbon Dioxide	85	ug/L	T B J N	
Surface Water	SW-SA2-GMCS-9	2/25/2009	VOCs	Carbon Disulfide	2	ug/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	VOCs	Carbon Tetrachloride	1	ug/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	VOCs	Chlorobenzene	1	ug/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	VOCs	Chlorodibromomethane	1	ug/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	VOCs	Chloroethane	1	ug/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	VOCs	Chloroform	1	ug/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	VOCs	Chloromethane	1	ug/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	VOCs	cis-1,2-Dichloroethene	1	ug/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	VOCs	cis-1,3-Dichloropropene	1	ug/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	VOCs	Dichloromethane	5	ug/L	U	

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Surface Water	SW-SA2-GMCS-2	2/25/2009	VOCs	1,1,1-Trichloroethane	1	ug/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	VOCs	Ethylbenzene	1	ug/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	VOCs	Methyl N-Butyl Ketone	10	ug/L	U *	
Surface Water	SW-SA2-GMCS-9	2/25/2009	VOCs	Styrene (Monomer)	1	ug/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	VOCs	Tetrachloroethene	1	ug/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	VOCs	Toluene	1	ug/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	VOCs	trans-1,2-Dichloroethene	1	ug/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	VOCs	trans-1,3-Dichloropropene	1	ug/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	VOCs	Trichloroethene	1	ug/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	VOCs	Vinyl chloride	1	ug/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	VOCs	Xylenes, Total	2	ug/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	SVOCs	1,2,4-Trichlorobenzene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	SVOCs	1,2-Dichlorobenzene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	SVOCs	1,3-Dichlorobenzene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	SVOCs	1,4-Dichlorobenzene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	SVOCs	2,2'-Oxybis(1-Chloropropane) (bis-2-chloroisopropyl ether)	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	SVOCs	2,4,5-Trichlorophenol	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	SVOCs	2,4,6-Trichlorophenol	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	SVOCs	2,4-Dichlorophenol	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	SVOCs	2,4-Dimethylphenol	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	SVOCs	2,4-Dinitrophenol	49	ug/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	SVOCs	2,4-Dinitrotoluene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	SVOCs	2,6-Dinitrotoluene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	SVOCs	2-Chloronaphthalene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	SVOCs	2-Chlorophenol	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	SVOCs	2-Methylnaphthalene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	SVOCs	2-Methylphenol (o-Cresol)	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	SVOCs	2-Nitroaniline	49	ug/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	SVOCs	2-Nitrophenol	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	SVOCs	3 & 4 Methylphenol	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	SVOCs	3,3'-Dichlorobenzidine	19	ug/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	SVOCs	3-Nitroaniline	49	ug/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	SVOCs	4,6-Dinitro-2-methylphenol	49	ug/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	SVOCs	4-Bromophenyl Phenyl Ether	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	SVOCs	4-Chloro-3-methylphenol	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	SVOCs	4-Chlorophenyl Phenyl Ether	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	SVOCs	4-Nitrophenol	49	ug/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	SVOCs	Acenaphthene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	SVOCs	Acenaphthylene	9.7	ug/L	U	

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Surface Water	SW-SA2-GMCS-2	2/25/2009	VOCs	1,1,1-Trichloroethane	1	ug/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	SVOCs	Anthracene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	SVOCs	Benzo(a)anthracene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	SVOCs	Benzo(a)pyrene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	SVOCs	Benzo(b)fluoranthene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	SVOCs	Benzo(g,h,i)perylene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	SVOCs	Benzo(k)fluoranthene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	SVOCs	Benzyl Butyl Phthalate	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	SVOCs	bis(2-Chloroethoxy)methane	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	SVOCs	bis(2-Chloroethyl)ether	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	SVOCs	bis(2-Ethylhexyl)phthalate	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	SVOCs	Carbazole	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	SVOCs	Chrysene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	SVOCs	Dibenzo(a,h)anthracene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	SVOCs	Dibenzofuran	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	SVOCs	Diethyl Phthalate	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	SVOCs	Dimethyl Phthalate	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	SVOCs	Di-n-butylphthalate	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	SVOCs	Di-n-octylphthalate	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	SVOCs	Dinoseb	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	SVOCs	Fluoranthene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	SVOCs	Fluorene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	SVOCs	Hexachlorobenzene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	SVOCs	Hexachlorobutadiene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	SVOCs	Hexachlorocyclopentadiene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	SVOCs	Hexachloroethane	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	SVOCs	Indeno(1,2,3-cd)pyrene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	SVOCs	Isophorone	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	SVOCs	Naphthalene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	SVOCs	Nitrobenzene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	SVOCs	N-Nitroso-di-n-propylamine	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	SVOCs	N-Nitrosodiphenylamine	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	SVOCs	P-Chloroaniline	19	ug/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	SVOCs	Phenanthrene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	SVOCs	Phenol	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	SVOCs	P-Nitroaniline	49	ug/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	SVOCs	Pyrene	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	Pesticides	4,4'-DDD	0.097	ug/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	Pesticides	4,4'-DDE	0.097	ug/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	Pesticides	4,4'-DDT	0.097	ug/L	U	

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Surface Water	SW-SA2-GMCS-2	2/25/2009	VOCs	1,1,1-Trichloroethane	1	ug/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	Pesticides	Aldrin	0.049	ug/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	Pesticides	alpha-BHC	0.049	ug/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	Pesticides	alpha-Chlordane	0.049	ug/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	Pesticides	beta-BHC	0.049	ug/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	Pesticides	delta-BHC	0.049	ug/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	Pesticides	Dieldrin	0.097	ug/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	Pesticides	Endosulfan I	0.049	ug/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	Pesticides	Endosulfan II	0.097	ug/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	Pesticides	Endosulfan Sulfate	0.097	ug/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	Pesticides	Endrin	0.097	ug/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	Pesticides	Endrin Aldehyde	0.097	ug/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	Pesticides	Endrin Ketone	0.097	ug/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	Pesticides	gamma-BHC (Lindane)	0.049	ug/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	Pesticides	gamma-Chlordane	0.049	ug/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	Pesticides	Heptachlor	0.049	ug/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	Pesticides	Heptachlor Epoxide	0.049	ug/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	Pesticides	Methoxychlor	0.49	ug/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	Pesticides	Toxaphene	4.9	ug/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	Herbicides	2,4,5-T	0.5	ug/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	Herbicides	2,4,5-TP (Silvex)	0.5	ug/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	Herbicides	2,4-D	0.5	ug/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	Herbicides	2,4-DB	0.5	ug/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	Herbicides	Dalapon	9.9	ug/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	Herbicides	Dicamba	0.5	ug/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	Herbicides	Dichlorprop	0.24	ug/L	J p	
Surface Water	SW-SA2-GMCS-9	2/25/2009	Herbicides	MCPA (2-Methyl-4-Chlorophenoxyacetic Acid)	120	ug/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	Herbicides	MCPP	120	ug/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	Herbicides	Pentachlorophenol	0.25	ug/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	Metals	Aluminum	2.6	mg/L		
Surface Water	SW-SA2-GMCS-9	2/25/2009	Metals	Aluminum (Dissolved)	0.2	mg/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	Metals	Antimony	0.02	mg/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	Metals	Antimony (Dissolved)	0.02	mg/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	Metals	Arsenic	0.0035	mg/L	J	U
Surface Water	SW-SA2-GMCS-9	2/25/2009	Metals	Arsenic (Dissolved)	0.01	mg/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	Metals	Barium	0.082	mg/L		
Surface Water	SW-SA2-GMCS-9	2/25/2009	Metals	Barium (Dissolved)	0.059	mg/L		
Surface Water	SW-SA2-GMCS-9	2/25/2009	Metals	Beryllium	0.004	mg/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	Metals	Beryllium (Dissolved)	0.004	mg/L	U	

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Surface Water	SW-SA2-GMCS-2	2/25/2009	VOCs	1,1,1-Trichloroethane	1	ug/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	Metals	Cadmium	0.005	mg/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	Metals	Cadmium (Dissolved)	0.005	mg/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	Metals	Calcium	58	mg/L		
Surface Water	SW-SA2-GMCS-9	2/25/2009	Metals	Calcium (Dissolved)	55	mg/L		
Surface Water	SW-SA2-GMCS-9	2/25/2009	Metals	Chromium	0.0033	mg/L	J	
Surface Water	SW-SA2-GMCS-9	2/25/2009	Metals	Chromium (Dissolved)	0.01	mg/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	Metals	Cobalt	0.01	mg/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	Metals	Cobalt (Dissolved)	0.01	mg/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	Metals	Copper	0.0053	mg/L	J	
Surface Water	SW-SA2-GMCS-9	2/25/2009	Metals	Copper (Dissolved)	0.02	mg/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	Metals	Iron	2.8	mg/L		
Surface Water	SW-SA2-GMCS-9	2/25/2009	Metals	Iron (Dissolved)	0.05	mg/L	J	
Surface Water	SW-SA2-GMCS-9	2/25/2009	Metals	Lead	0.0037	mg/L	J	J
Surface Water	SW-SA2-GMCS-9	2/25/2009	Metals	Lead (Dissolved)	0.005	mg/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	Metals	Magnesium	23	mg/L		
Surface Water	SW-SA2-GMCS-9	2/25/2009	Metals	Magnesium (Dissolved)	22	mg/L		
Surface Water	SW-SA2-GMCS-9	2/25/2009	Metals	Manganese	0.088	mg/L		
Surface Water	SW-SA2-GMCS-9	2/25/2009	Metals	Manganese (Dissolved)	0.01	mg/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	Metals	Mercury	0.0002	mg/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	Metals	Nickel	0.0036	mg/L	J	
Surface Water	SW-SA2-GMCS-9	2/25/2009	Metals	Nickel (Dissolved)	0.04	mg/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	Metals	Potassium	5.7	mg/L		
Surface Water	SW-SA2-GMCS-9	2/25/2009	Metals	Potassium (Dissolved)	4.9	mg/L		
Surface Water	SW-SA2-GMCS-9	2/25/2009	Metals	Selenium	0.01	mg/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	Metals	Selenium (Dissolved)	0.01	mg/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	Metals	Silver	0.01	mg/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	Metals	Silver (Dissolved)	0.01	mg/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	Metals	Sodium	34	mg/L		
Surface Water	SW-SA2-GMCS-9	2/25/2009	Metals	Sodium (Dissolved)	34	mg/L		
Surface Water	SW-SA2-GMCS-9	2/25/2009	Metals	Thallium	0.025	mg/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	Metals	Thallium (Dissolved)	0.025	mg/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	Metals	Vanadium	0.006	mg/L	J	
Surface Water	SW-SA2-GMCS-9	2/25/2009	Metals	Vanadium (Dissolved)	0.01	mg/L	U	
Surface Water	SW-SA2-GMCS-9	2/25/2009	Metals	Zinc	0.017	mg/L	J	
Surface Water	SW-SA2-GMCS-9	2/25/2009	Metals	Zinc (Dissolved)	0.02	mg/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	VOCs	1,1,1-Trichloroethane	1	ug/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	VOCs	1,1,2,2-Tetrachloroethane	1	ug/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	VOCs	1,1,2-Trichloroethane	1	ug/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	VOCs	1,1-Dichloroethane	1	ug/L	U	

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Surface Water Sample Results
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Surface Water	SW-SA2-GMCS-2	2/25/2009	VOCs	1,1,1-Trichloroethane	1	ug/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	VOCs	1,1-Dichloroethylene	1	ug/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	VOCs	1,2-Dichloroethane	1	ug/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	VOCs	1,2-Dichloroethene (total)	2	ug/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	VOCs	1,2-Dichloropropane	1	ug/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	VOCs	2-Butanone (MEK)	10	ug/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	VOCs	4-Methyl-2-pentanone (MIBK)	10	ug/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	VOCs	Acetone	25	ug/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	VOCs	Benzene	1	ug/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	VOCs	Bromodichloromethane	1	ug/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	VOCs	Bromoform	1	ug/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	VOCs	Bromomethane	1	ug/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	VOCs	Carbon Dioxide	89	ug/L	T B J N	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	VOCs	Carbon Disulfide	2	ug/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	VOCs	Carbon Tetrachloride	1	ug/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	VOCs	Chlorobenzene	1	ug/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	VOCs	Chlorodibromomethane	1	ug/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	VOCs	Chloroethane	1	ug/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	VOCs	Chloroform	1	ug/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	VOCs	Chloromethane	1	ug/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	VOCs	cis-1,2-Dichloroethene	1	ug/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	VOCs	cis-1,3-Dichloropropene	1	ug/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	VOCs	Dichloromethane	5	ug/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	VOCs	Ethylbenzene	1	ug/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	VOCs	Methyl N-Butyl Ketone	10	ug/L	U *	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	VOCs	Styrene (Monomer)	1	ug/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	VOCs	Tetrachloroethene	1	ug/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	VOCs	Toluene	1	ug/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	VOCs	trans-1,2-Dichloroethene	1	ug/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	VOCs	trans-1,3-Dichloropropene	1	ug/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	VOCs	Trichloroethene	1	ug/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	VOCs	Vinyl chloride	1	ug/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	VOCs	Xylenes, Total	2	ug/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	SVOCs	1,2,4-Trichlorobenzene	9.4	ug/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	SVOCs	1,2-Dichlorobenzene	9.4	ug/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	SVOCs	1,3-Dichlorobenzene	9.4	ug/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	SVOCs	1,4-Dichlorobenzene	9.4	ug/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	SVOCs	2,2'-Oxybis(1-Chloropropane) (bis-2-chloroisopropyl ether)	9.4	ug/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	SVOCs	2,4,5-Trichlorophenol	9.4	ug/L	U	

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Surface Water	SW-SA2-GMCS-2	2/25/2009	VOCs	1,1,1-Trichloroethane	1	ug/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	SVOCs	2,4,6-Trichlorophenol	9.4	ug/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	SVOCs	2,4-Dichlorophenol	9.4	ug/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	SVOCs	2,4-Dimethylphenol	9.4	ug/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	SVOCs	2,4-Dinitrophenol	47	ug/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	SVOCs	2,4-Dinitrotoluene	9.4	ug/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	SVOCs	2,6-Dinitrotoluene	9.4	ug/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	SVOCs	2-Chloronaphthalene	9.4	ug/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	SVOCs	2-Chlorophenol	9.4	ug/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	SVOCs	2-Methylnaphthalene	9.4	ug/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	SVOCs	2-Methylphenol (o-Cresol)	9.4	ug/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	SVOCs	2-Nitroaniline	47	ug/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	SVOCs	2-Nitrophenol	9.4	ug/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	SVOCs	3 & 4 Methylphenol	9.4	ug/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	SVOCs	3,3'-Dichlorobenzidine	19	ug/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	SVOCs	3-Nitroaniline	47	ug/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	SVOCs	4,6-Dinitro-2-methylphenol	47	ug/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	SVOCs	4-Bromophenyl Phenyl Ether	9.4	ug/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	SVOCs	4-Chloro-3-methylphenol	9.4	ug/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	SVOCs	4-Chlorophenyl Phenyl Ether	9.4	ug/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	SVOCs	4-Nitrophenol	47	ug/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	SVOCs	Acenaphthene	9.4	ug/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	SVOCs	Acenaphthylene	9.4	ug/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	SVOCs	Anthracene	9.4	ug/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	SVOCs	Benzo(a)anthracene	9.4	ug/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	SVOCs	Benzo(a)pyrene	9.4	ug/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	SVOCs	Benzo(b)fluoranthene	9.4	ug/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	SVOCs	Benzo(g,h,i)perylene	9.4	ug/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	SVOCs	Benzo(k)fluoranthene	9.4	ug/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	SVOCs	Benzyl Butyl Phthalate	9.4	ug/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	SVOCs	bis(2-Chloroethoxy)methane	9.4	ug/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	SVOCs	bis(2-Chloroethyl)ether	9.4	ug/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	SVOCs	bis(2-Ethylhexyl)phthalate	9.4	ug/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	SVOCs	Carbazole	9.4	ug/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	SVOCs	Chrysene	9.4	ug/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	SVOCs	Dibenzo(a,h)anthracene	9.4	ug/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	SVOCs	Dibenzofuran	9.4	ug/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	SVOCs	Diethyl Phthalate	9.4	ug/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	SVOCs	Dimethyl Phthalate	9.4	ug/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	SVOCs	Di-n-butylphthalate	9.4	ug/L	U	

Sauget Area 2
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Surface Water Sample Results
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Surface Water	SW-SA2-GMCS-2	2/25/2009	VOCs	1,1,1-Trichloroethane	1	ug/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	SVOCs	Di-n-octylphthalate	9.4	ug/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	SVOCs	Dinoseb	9.4	ug/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	SVOCs	Fluoranthene	9.4	ug/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	SVOCs	Fluorene	9.4	ug/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	SVOCs	Hexachlorobenzene	9.4	ug/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	SVOCs	Hexachlorobutadiene	9.4	ug/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	SVOCs	Hexachlorocyclopentadiene	9.4	ug/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	SVOCs	Hexachloroethane	9.4	ug/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	SVOCs	Indeno(1,2,3-cd)pyrene	9.4	ug/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	SVOCs	Isophorone	9.4	ug/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	SVOCs	Naphthalene	9.4	ug/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	SVOCs	Nitrobenzene	9.4	ug/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	SVOCs	N-Nitroso-di-n-propylamine	9.4	ug/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	SVOCs	N-Nitrosodiphenylamine	9.4	ug/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	SVOCs	P-Chloroaniline	19	ug/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	SVOCs	Phenanthrene	9.4	ug/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	SVOCs	Phenol	9.4	ug/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	SVOCs	P-Nitroaniline	47	ug/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	SVOCs	Pyrene	9.4	ug/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	Pesticides	4,4'-DDD	0.097	ug/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	Pesticides	4,4'-DDE	0.097	ug/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	Pesticides	4,4'-DDT	0.097	ug/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	Pesticides	Aldrin	0.049	ug/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	Pesticides	alpha-BHC	0.049	ug/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	Pesticides	alpha-Chlordane	0.049	ug/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	Pesticides	beta-BHC	0.049	ug/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	Pesticides	delta-BHC	0.049	ug/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	Pesticides	Dieldrin	0.097	ug/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	Pesticides	Endosulfan I	0.049	ug/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	Pesticides	Endosulfan II	0.097	ug/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	Pesticides	Endosulfan Sulfate	0.097	ug/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	Pesticides	Endrin	0.097	ug/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	Pesticides	Endrin Aldehyde	0.097	ug/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	Pesticides	Endrin Ketone	0.097	ug/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	Pesticides	gamma-BHC (Lindane)	0.049	ug/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	Pesticides	gamma-Chlordane	0.049	ug/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	Pesticides	Heptachlor	0.049	ug/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	Pesticides	Heptachlor Epoxide	0.049	ug/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	Pesticides	Methoxychlor	0.49	ug/L	U	

Sauget Area 2
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Surface Water	SW-SA2-GMCS-2	2/25/2009	VOCs	1,1,1-Trichloroethane	1	ug/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	Pesticides	Toxaphene	4.9	ug/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	Herbicides	2,4,5-T	0.49	ug/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	Herbicides	2,4,5-TP (Silvex)	0.49	ug/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	Herbicides	2,4-D	0.49	ug/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	Herbicides	2,4-DB	0.49	ug/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	Herbicides	Dalapon	9.7	ug/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	Herbicides	Dicamba	0.49	ug/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	Herbicides	Dichlorprop	0.16	ug/L	J p	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	Herbicides	MCPA (2-Methyl-4-Chlorophenoxyacetic Acid)	120	ug/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	Herbicides	MCPP	120	ug/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	Herbicides	Pentachlorophenol	0.24	ug/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	Metals	Aluminum	3.1	mg/L		
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	Metals	Aluminum (Dissolved)	0.2	mg/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	Metals	Antimony	0.02	mg/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	Metals	Antimony (Dissolved)	0.02	mg/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	Metals	Arsenic	0.01	mg/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	Metals	Arsenic (Dissolved)	0.01	mg/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	Metals	Barium	0.084	mg/L		
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	Metals	Barium (Dissolved)	0.059	mg/L		
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	Metals	Beryllium	0.004	mg/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	Metals	Beryllium (Dissolved)	0.004	mg/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	Metals	Cadmium	0.005	mg/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	Metals	Cadmium (Dissolved)	0.005	mg/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	Metals	Calcium	58	mg/L		
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	Metals	Calcium (Dissolved)	56	mg/L		
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	Metals	Chromium	0.0046	mg/L	J	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	Metals	Chromium (Dissolved)	0.01	mg/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	Metals	Cobalt	0.001	mg/L	J	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	Metals	Cobalt (Dissolved)	0.01	mg/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	Metals	Copper	0.0053	mg/L	J	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	Metals	Copper (Dissolved)	0.02	mg/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	Metals	Iron	3.2	mg/L		
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	Metals	Iron (Dissolved)	0.056	mg/L		
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	Metals	Lead	0.0024	mg/L	J	J
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	Metals	Lead (Dissolved)	0.005	mg/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	Metals	Magnesium	23	mg/L		
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	Metals	Magnesium (Dissolved)	22	mg/L		
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	Metals	Manganese	0.09	mg/L		

Sauget Area 2
Groundwater Migration Control System
Surface Water Sample Results
February 2009

Surface Water	SW-SA2-GMCS-2	2/25/2009	VOCs	1,1,1-Trichloroethane	1	ug/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	Metals	Manganese (Dissolved)	0.0028	mg/L	J	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	Metals	Mercury	0.0002	mg/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	Metals	Nickel	0.0045	mg/L	J	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	Metals	Nickel (Dissolved)	0.04	mg/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	Metals	Potassium	5.8	mg/L		
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	Metals	Potassium (Dissolved)	4.9	mg/L		
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	Metals	Selenium	0.01	mg/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	Metals	Selenium (Dissolved)	0.01	mg/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	Metals	Silver	0.01	mg/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	Metals	Silver (Dissolved)	0.01	mg/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	Metals	Sodium	36	mg/L		
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	Metals	Sodium (Dissolved)	34	mg/L		
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	Metals	Thallium	0.025	mg/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	Metals	Thallium (Dissolved)	0.025	mg/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	Metals	Vanadium	0.0071	mg/L	J	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	Metals	Vanadium (Dissolved)	0.01	mg/L	U	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	Metals	Zinc	0.02	mg/L	J	
Surface Water	SW-SA2-GMCS-9-DUP	2/25/2009	Metals	Zinc (Dissolved)	0.02	mg/L	U	

Sauget Area 2
Groundwater Migration Control System
Sediment Water Sample Results
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Media	Sample ID	Sample Date	Group	Chemical	Result	Units	Lab Qualifiers	URS Qualifiers
Sediment	SED-SA2-GMCS-2	2/25/2009	VOCs	1,1,1-Trichloroethane	39	ug/Kg	U	UJ
Sediment	SED-SA2-GMCS-2	2/25/2009	VOCs	1,1,2,2-Tetrachloroethane	39	ug/Kg	U	UJ
Sediment	SED-SA2-GMCS-2	2/25/2009	VOCs	1,1,2-Trichloroethane	39	ug/Kg	U	UJ
Sediment	SED-SA2-GMCS-2	2/25/2009	VOCs	1,1-Dichloroethane	39	ug/Kg	U	UJ
Sediment	SED-SA2-GMCS-2	2/25/2009	VOCs	1,1-Dichloroethylene	39	ug/Kg	U	UJ
Sediment	SED-SA2-GMCS-2	2/25/2009	VOCs	1,2-Dichloroethane	39	ug/Kg	U	UJ
Sediment	SED-SA2-GMCS-2	2/25/2009	VOCs	1,2-Dichloropropane	39	ug/Kg	U	UJ
Sediment	SED-SA2-GMCS-2	2/25/2009	VOCs	2-Butanone (MEK)	25	ug/Kg	J	J
Sediment	SED-SA2-GMCS-2	2/25/2009	VOCs	4-Methyl-2-pentanone (MIBK)	190	ug/Kg	U	UJ
Sediment	SED-SA2-GMCS-2	2/25/2009	VOCs	Acetone	120	ug/Kg	J	U
Sediment	SED-SA2-GMCS-2	2/25/2009	VOCs	Benzene	100	ug/Kg		J
Sediment	SED-SA2-GMCS-2	2/25/2009	VOCs	Bromodichloromethane	39	ug/Kg	U	UJ
Sediment	SED-SA2-GMCS-2	2/25/2009	VOCs	Bromoform	39	ug/Kg	U	UJ
Sediment	SED-SA2-GMCS-2	2/25/2009	VOCs	Bromomethane	39	ug/Kg	U	UJ
Sediment	SED-SA2-GMCS-2	2/25/2009	VOCs	Carbon Dioxide	6800	ug/Kg	T B J N	J
Sediment	SED-SA2-GMCS-2	2/25/2009	VOCs	Carbon Disulfide	39	ug/Kg	U	UJ
Sediment	SED-SA2-GMCS-2	2/25/2009	VOCs	Carbon Tetrachloride	39	ug/Kg	U	UJ
Sediment	SED-SA2-GMCS-2	2/25/2009	VOCs	Chlorobenzene	3100	ug/Kg	D	J
Sediment	SED-SA2-GMCS-2	2/25/2009	VOCs	Chlorodibromomethane	39	ug/Kg	U	UJ
Sediment	SED-SA2-GMCS-2	2/25/2009	VOCs	Chloroethane	39	ug/Kg	U	UJ
Sediment	SED-SA2-GMCS-2	2/25/2009	VOCs	Chloroform	39	ug/Kg	U	UJ
Sediment	SED-SA2-GMCS-2	2/25/2009	VOCs	Chloromethane	39	ug/Kg	U	UJ
Sediment	SED-SA2-GMCS-2	2/25/2009	VOCs	cis-1,2-Dichloroethene	39	ug/Kg	U	UJ
Sediment	SED-SA2-GMCS-2	2/25/2009	VOCs	cis-1,3-Dichloropropene	39	ug/Kg	U	UJ
Sediment	SED-SA2-GMCS-2	2/25/2009	VOCs	Dichloromethane	39	ug/Kg	U	UJ
Sediment	SED-SA2-GMCS-2	2/25/2009	VOCs	Ethylbenzene	39	ug/Kg	U	UJ
Sediment	SED-SA2-GMCS-2	2/25/2009	VOCs	Methyl N-Butyl Ketone	46	ug/Kg	J	J
Sediment	SED-SA2-GMCS-2	2/25/2009	VOCs	Styrene (Monomer)	39	ug/Kg	U	UJ
Sediment	SED-SA2-GMCS-2	2/25/2009	VOCs	Tetrachloroethene	39	ug/Kg	U	UJ
Sediment	SED-SA2-GMCS-2	2/25/2009	VOCs	Toluene	14	ug/Kg	J	J
Sediment	SED-SA2-GMCS-2	2/25/2009	VOCs	trans-1,2-Dichloroethene	39	ug/Kg	U	UJ
Sediment	SED-SA2-GMCS-2	2/25/2009	VOCs	trans-1,3-Dichloropropene	39	ug/Kg	U	UJ
Sediment	SED-SA2-GMCS-2	2/25/2009	VOCs	Trichloroethene	39	ug/Kg	U	UJ
Sediment	SED-SA2-GMCS-2	2/25/2009	VOCs	Vinyl chloride	39	ug/Kg	U	UJ
Sediment	SED-SA2-GMCS-2	2/25/2009	VOCs	Xylenes, Total	77	ug/Kg	U	UJ
Sediment	SED-SA2-GMCS-2	2/25/2009	SVOCs	[1,1'-Biphenyl]-3-ol	6200	ug/Kg	T J N	

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Groundwater Migration Control System
Sediment Water Sample Results
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Media	Sample ID	Sample Date	Group	Chemical	Result	Units	Lab Qualifiers	URS Qualifiers
Sediment	SED-SA2-GMCS-2	2/25/2009	SVOCs	1,2,4-Trichlorobenzene	5600	ug/Kg	U	
Sediment	SED-SA2-GMCS-2	2/25/2009	SVOCs	1,2-Dichlorobenzene	560	ug/Kg	J	
Sediment	SED-SA2-GMCS-2	2/25/2009	SVOCs	1,3-Dichlorobenzene	5600	ug/Kg	U	
Sediment	SED-SA2-GMCS-2	2/25/2009	SVOCs	1,4-Dichlorobenzene	2600	ug/Kg	J	
Sediment	SED-SA2-GMCS-2	2/25/2009	SVOCs	2,2'-Oxybis(1-Chloropropane) (bis-2-chloroisopropyl ether)	5600	ug/Kg	U	
Sediment	SED-SA2-GMCS-2	2/25/2009	SVOCs	2,4,5-Trichlorophenol	5600	ug/Kg	U	
Sediment	SED-SA2-GMCS-2	2/25/2009	SVOCs	2,4,6-Trichlorophenol	5600	ug/Kg	U	
Sediment	SED-SA2-GMCS-2	2/25/2009	SVOCs	2,4-Dichlorophenol	5600	ug/Kg	U	
Sediment	SED-SA2-GMCS-2	2/25/2009	SVOCs	2,4-Dimethylphenol	5600	ug/Kg	U	
Sediment	SED-SA2-GMCS-2	2/25/2009	SVOCs	2,4-Dinitrophenol	29000	ug/Kg	U	
Sediment	SED-SA2-GMCS-2	2/25/2009	SVOCs	2,4-Dinitrotoluene	5600	ug/Kg	U	
Sediment	SED-SA2-GMCS-2	2/25/2009	SVOCs	2,6-Dinitrotoluene	5600	ug/Kg	U	
Sediment	SED-SA2-GMCS-2	2/25/2009	SVOCs	2-Chloronaphthalene	5600	ug/Kg	U	
Sediment	SED-SA2-GMCS-2	2/25/2009	SVOCs	2-Chlorophenol	5600	ug/Kg	U	
Sediment	SED-SA2-GMCS-2	2/25/2009	SVOCs	2-Methylnaphthalene	5600	ug/Kg	U	
Sediment	SED-SA2-GMCS-2	2/25/2009	SVOCs	2-Methylphenol (o-Cresol)	5600	ug/Kg	U	
Sediment	SED-SA2-GMCS-2	2/25/2009	SVOCs	2-Nitroaniline	29000	ug/Kg	U	
Sediment	SED-SA2-GMCS-2	2/25/2009	SVOCs	2-Nitrophenol	5600	ug/Kg	U	
Sediment	SED-SA2-GMCS-2	2/25/2009	SVOCs	3 & 4 Methylphenol	5600	ug/Kg	U	
Sediment	SED-SA2-GMCS-2	2/25/2009	SVOCs	3,3'-Dichlorobenzidine	11000	ug/Kg	U	
Sediment	SED-SA2-GMCS-2	2/25/2009	SVOCs	3-Nitroaniline	29000	ug/Kg	U	
Sediment	SED-SA2-GMCS-2	2/25/2009	SVOCs	4,6-Dinitro-2-methylphenol	29000	ug/Kg	U	
Sediment	SED-SA2-GMCS-2	2/25/2009	SVOCs	4-Bromophenyl Phenyl Ether	5600	ug/Kg	U	
Sediment	SED-SA2-GMCS-2	2/25/2009	SVOCs	4-Chloro-3-methylphenol	5600	ug/Kg	U	
Sediment	SED-SA2-GMCS-2	2/25/2009	SVOCs	4-Chlorophenyl Phenyl Ether	5600	ug/Kg	U	
Sediment	SED-SA2-GMCS-2	2/25/2009	SVOCs	4-Nitrophenol	29000	ug/Kg	U	
Sediment	SED-SA2-GMCS-2	2/25/2009	SVOCs	Acenaphthene	5600	ug/Kg	U	
Sediment	SED-SA2-GMCS-2	2/25/2009	SVOCs	Acenaphthylene	5600	ug/Kg	U	
Sediment	SED-SA2-GMCS-2	2/25/2009	SVOCs	Anthracene	5600	ug/Kg	U	
Sediment	SED-SA2-GMCS-2	2/25/2009	SVOCs	Benzo(a)anthracene	5600	ug/Kg	U	
Sediment	SED-SA2-GMCS-2	2/25/2009	SVOCs	Benzo(a)pyrene	5600	ug/Kg	U	
Sediment	SED-SA2-GMCS-2	2/25/2009	SVOCs	Benzo(b)fluoranthene	5600	ug/Kg	U	
Sediment	SED-SA2-GMCS-2	2/25/2009	SVOCs	Benzo(g,h,i)perylene	5600	ug/Kg	U	
Sediment	SED-SA2-GMCS-2	2/25/2009	SVOCs	Benzo(k)fluoranthene	5600	ug/Kg	U	
Sediment	SED-SA2-GMCS-2	2/25/2009	SVOCs	Benzyl Butyl Phthalate	5600	ug/Kg	U	

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Sediment Water Sample Results
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Media	Sample ID	Sample Date	Group	Chemical	Result	Units	Lab Qualifiers	URS Qualifiers
Sediment	SED-SA2-GMCS-2	2/25/2009	SVOCs	bis(2-Chloroethoxy)methane	5600	ug/Kg	U	
Sediment	SED-SA2-GMCS-2	2/25/2009	SVOCs	bis(2-Chloroethyl)ether	5600	ug/Kg	U	
Sediment	SED-SA2-GMCS-2	2/25/2009	SVOCs	bis(2-Ethylhexyl)phthalate	5600	ug/Kg	U	
Sediment	SED-SA2-GMCS-2	2/25/2009	SVOCs	Carbazole	5600	ug/Kg	U	
Sediment	SED-SA2-GMCS-2	2/25/2009	SVOCs	Chrysene	5600	ug/Kg	U	
Sediment	SED-SA2-GMCS-2	2/25/2009	SVOCs	Dibenzo(a,h)anthracene	5600	ug/Kg	U	
Sediment	SED-SA2-GMCS-2	2/25/2009	SVOCs	Dibenzofuran	5600	ug/Kg	U	
Sediment	SED-SA2-GMCS-2	2/25/2009	SVOCs	Diethyl Phthalate	5600	ug/Kg	U	
Sediment	SED-SA2-GMCS-2	2/25/2009	SVOCs	Dimethyl Phthalate	5600	ug/Kg	U	
Sediment	SED-SA2-GMCS-2	2/25/2009	SVOCs	Di-n-butylphthalate	5600	ug/Kg	U	
Sediment	SED-SA2-GMCS-2	2/25/2009	SVOCs	Di-n-octylphthalate	5600	ug/Kg	U	
Sediment	SED-SA2-GMCS-2	2/25/2009	SVOCs	Dinoseb	5600	ug/Kg	U	
Sediment	SED-SA2-GMCS-2	2/25/2009	SVOCs	Fluoranthene	5600	ug/Kg	U	
Sediment	SED-SA2-GMCS-2	2/25/2009	SVOCs	Fluorene	5600	ug/Kg	U	
Sediment	SED-SA2-GMCS-2	2/25/2009	SVOCs	Hexachlorobenzene	5600	ug/Kg	U	
Sediment	SED-SA2-GMCS-2	2/25/2009	SVOCs	Hexachlorobutadiene	5600	ug/Kg	U	
Sediment	SED-SA2-GMCS-2	2/25/2009	SVOCs	Hexachlorocyclopentadiene	5600	ug/Kg	U	
Sediment	SED-SA2-GMCS-2	2/25/2009	SVOCs	Hexachloroethane	5600	ug/Kg	U	
Sediment	SED-SA2-GMCS-2	2/25/2009	SVOCs	Indeno(1,2,3-cd)pyrene	5600	ug/Kg	U	
Sediment	SED-SA2-GMCS-2	2/25/2009	SVOCs	Isophorone	5600	ug/Kg	U	
Sediment	SED-SA2-GMCS-2	2/25/2009	SVOCs	Naphthalene	5600	ug/Kg	U	
Sediment	SED-SA2-GMCS-2	2/25/2009	SVOCs	Nitrobenzene	5600	ug/Kg	U	
Sediment	SED-SA2-GMCS-2	2/25/2009	SVOCs	N-Nitroso-di-n-propylamine	5600	ug/Kg	U	
Sediment	SED-SA2-GMCS-2	2/25/2009	SVOCs	N-Nitrosodiphenylamine	5600	ug/Kg	U	
Sediment	SED-SA2-GMCS-2	2/25/2009	SVOCs	P-Chloroaniline	11000	ug/Kg	U	
Sediment	SED-SA2-GMCS-2	2/25/2009	SVOCs	Phenanthrene	5600	ug/Kg	U	
Sediment	SED-SA2-GMCS-2	2/25/2009	SVOCs	Phenol	5600	ug/Kg	U	
Sediment	SED-SA2-GMCS-2	2/25/2009	SVOCs	P-Nitroaniline	29000	ug/Kg	U	
Sediment	SED-SA2-GMCS-2	2/25/2009	SVOCs	Pyrene	5600	ug/Kg	U	
Sediment	SED-SA2-GMCS-2	2/25/2009	Pesticides	4,4'-DDD	28	ug/Kg	U	UJ
Sediment	SED-SA2-GMCS-2	2/25/2009	Pesticides	4,4'-DDE	28	ug/Kg	U	UJ
Sediment	SED-SA2-GMCS-2	2/25/2009	Pesticides	4,4'-DDT	28	ug/Kg	U	UJ
Sediment	SED-SA2-GMCS-2	2/25/2009	Pesticides	Aldrin	14	ug/Kg	U	UJ
Sediment	SED-SA2-GMCS-2	2/25/2009	Pesticides	alpha-BHC	14	ug/Kg	U	UJ
Sediment	SED-SA2-GMCS-2	2/25/2009	Pesticides	alpha-Chlordane	14	ug/Kg	U	UJ
Sediment	SED-SA2-GMCS-2	2/25/2009	Pesticides	beta-BHC	14	ug/Kg	U	UJ

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Media	Sample ID	Sample Date	Group	Chemical	Result	Units	Lab Qualifiers	URS Qualifiers
Sediment	SED-SA2-GMCS-2	2/25/2009	Pesticides	delta-BHC	14	ug/Kg	U	UJ
Sediment	SED-SA2-GMCS-2	2/25/2009	Pesticides	Dieldrin	28	ug/Kg	U	UJ
Sediment	SED-SA2-GMCS-2	2/25/2009	Pesticides	Endosulfan I	14	ug/Kg	U	UJ
Sediment	SED-SA2-GMCS-2	2/25/2009	Pesticides	Endosulfan II	28	ug/Kg	U	UJ
Sediment	SED-SA2-GMCS-2	2/25/2009	Pesticides	Endosulfan Sulfate	28	ug/Kg	U	UJ
Sediment	SED-SA2-GMCS-2	2/25/2009	Pesticides	Endrin	28	ug/Kg	U	UJ
Sediment	SED-SA2-GMCS-2	2/25/2009	Pesticides	Endrin Aldehyde	28	ug/Kg	U	UJ
Sediment	SED-SA2-GMCS-2	2/25/2009	Pesticides	Endrin Ketone	28	ug/Kg	U	UJ
Sediment	SED-SA2-GMCS-2	2/25/2009	Pesticides	gamma-BHC (Lindane)	14	ug/Kg	U	UJ
Sediment	SED-SA2-GMCS-2	2/25/2009	Pesticides	gamma-Chlordane	14	ug/Kg	U	UJ
Sediment	SED-SA2-GMCS-2	2/25/2009	Pesticides	Heptachlor	14	ug/Kg	U	UJ
Sediment	SED-SA2-GMCS-2	2/25/2009	Pesticides	Heptachlor Epoxide	14	ug/Kg	U	UJ
Sediment	SED-SA2-GMCS-2	2/25/2009	Pesticides	Methoxychlor	140	ug/Kg	U	UJ
Sediment	SED-SA2-GMCS-2	2/25/2009	Pesticides	Toxaphene	1400	ug/Kg	U	UJ
Sediment	SED-SA2-GMCS-2	2/25/2009	Herbicides	2,4,5-T	14	ug/Kg	U	
Sediment	SED-SA2-GMCS-2	2/25/2009	Herbicides	2,4,5-TP (Silvex)	14	ug/Kg	U	
Sediment	SED-SA2-GMCS-2	2/25/2009	Herbicides	2,4-D	14	ug/Kg	U	
Sediment	SED-SA2-GMCS-2	2/25/2009	Herbicides	2,4-DB	14	ug/Kg	U	
Sediment	SED-SA2-GMCS-2	2/25/2009	Herbicides	Dalapon	560	ug/Kg	U	
Sediment	SED-SA2-GMCS-2	2/25/2009	Herbicides	Dicamba	14	ug/Kg	U	
Sediment	SED-SA2-GMCS-2	2/25/2009	Herbicides	Dichlorprop	14	ug/Kg	U	
Sediment	SED-SA2-GMCS-2	2/25/2009	Herbicides	MCPA (2-Methyl-4-Chlorophenoxyacetic Acid)	3400	ug/Kg	U	
Sediment	SED-SA2-GMCS-2	2/25/2009	Herbicides	MCPP	3400	ug/Kg	U	
Sediment	SED-SA2-GMCS-2	2/25/2009	Herbicides	Pentachlorophenol	14	ug/Kg	U	
Sediment	SED-SA2-GMCS-2	2/25/2009	Metals	Aluminum	6600	mg/Kg		
Sediment	SED-SA2-GMCS-2	2/25/2009	Metals	Antimony	0.38	mg/Kg	J	
Sediment	SED-SA2-GMCS-2	2/25/2009	Metals	Arsenic	3.2	mg/Kg		
Sediment	SED-SA2-GMCS-2	2/25/2009	Metals	Barium	150	mg/Kg		
Sediment	SED-SA2-GMCS-2	2/25/2009	Metals	Beryllium	0.35	mg/Kg	J	
Sediment	SED-SA2-GMCS-2	2/25/2009	Metals	Cadmium	0.34	mg/Kg	J	
Sediment	SED-SA2-GMCS-2	2/25/2009	Metals	Calcium	10000	mg/Kg		
Sediment	SED-SA2-GMCS-2	2/25/2009	Metals	Chromium	12	mg/Kg		
Sediment	SED-SA2-GMCS-2	2/25/2009	Metals	Cobalt	4.6	mg/Kg		
Sediment	SED-SA2-GMCS-2	2/25/2009	Metals	Copper	7.4	mg/Kg		
Sediment	SED-SA2-GMCS-2	2/25/2009	Metals	Iron	10000	mg/Kg	B	

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Groundwater Migration Control System
Sediment Water Sample Results
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Media	Sample ID	Sample Date	Group	Chemical	Result	Units	Lab Qualifiers	URS Qualifiers
Sediment	SED-SA2-GMCS-2	2/25/2009	Metals	Lead	13	mg/Kg		
Sediment	SED-SA2-GMCS-2	2/25/2009	Metals	Magnesium	3200	mg/Kg	B	
Sediment	SED-SA2-GMCS-2	2/25/2009	Metals	Manganese	240	mg/Kg		
Sediment	SED-SA2-GMCS-2	2/25/2009	Metals	Mercury	0.032	mg/Kg		
Sediment	SED-SA2-GMCS-2	2/25/2009	Metals	Nickel	12	mg/Kg		
Sediment	SED-SA2-GMCS-2	2/25/2009	Metals	Potassium	1100	mg/Kg		
Sediment	SED-SA2-GMCS-2	2/25/2009	Metals	Selenium	4	mg/Kg	U	
Sediment	SED-SA2-GMCS-2	2/25/2009	Metals	Silver	1.6	mg/Kg	U	
Sediment	SED-SA2-GMCS-2	2/25/2009	Metals	Sodium	140	mg/Kg	J	
Sediment	SED-SA2-GMCS-2	2/25/2009	Metals	Thallium	4	mg/Kg	U	
Sediment	SED-SA2-GMCS-2	2/25/2009	Metals	Vanadium	19	mg/Kg		
Sediment	SED-SA2-GMCS-2	2/25/2009	Metals	Zinc	64	mg/Kg		
Sediment	SED-SA2-GMCS-3	2/25/2009	VOCs	1,1,1-Trichloroethane	5.2	ug/Kg	U	
Sediment	SED-SA2-GMCS-3	2/25/2009	VOCs	1,1,2,2-Tetrachloroethane	5.2	ug/Kg	U	
Sediment	SED-SA2-GMCS-3	2/25/2009	VOCs	1,1,2-Trichloroethane	5.2	ug/Kg	U	
Sediment	SED-SA2-GMCS-3	2/25/2009	VOCs	1,1-Dichloroethane	5.2	ug/Kg	U	
Sediment	SED-SA2-GMCS-3	2/25/2009	VOCs	1,1-Dichloroethylene	5.2	ug/Kg	U	
Sediment	SED-SA2-GMCS-3	2/25/2009	VOCs	1,2-Dichloroethane	5.2	ug/Kg	U	
Sediment	SED-SA2-GMCS-3	2/25/2009	VOCs	1,2-Dichloropropane	5.2	ug/Kg	U	
Sediment	SED-SA2-GMCS-3	2/25/2009	VOCs	2-Butanone (MEK)	26	ug/Kg	U	
Sediment	SED-SA2-GMCS-3	2/25/2009	VOCs	4-Methyl-2-pentanone (MIBK)	26	ug/Kg	U	
Sediment	SED-SA2-GMCS-3	2/25/2009	VOCs	Acetone	52	ug/Kg	U	
Sediment	SED-SA2-GMCS-3	2/25/2009	VOCs	Benzene	5.2	ug/Kg	U	
Sediment	SED-SA2-GMCS-3	2/25/2009	VOCs	Bromodichloromethane	5.2	ug/Kg	U	
Sediment	SED-SA2-GMCS-3	2/25/2009	VOCs	Bromoform	5.2	ug/Kg	U	
Sediment	SED-SA2-GMCS-3	2/25/2009	VOCs	Bromomethane	5.2	ug/Kg	U	UJ
Sediment	SED-SA2-GMCS-3	2/25/2009	VOCs	Carbon Dioxide	940	ug/Kg	T B J N	
Sediment	SED-SA2-GMCS-3	2/25/2009	VOCs	Carbon Disulfide	1.6	ug/Kg	J	
Sediment	SED-SA2-GMCS-3	2/25/2009	VOCs	Carbon Tetrachloride	5.2	ug/Kg	U	
Sediment	SED-SA2-GMCS-3	2/25/2009	VOCs	Chlorobenzene	5.2	ug/Kg	U	
Sediment	SED-SA2-GMCS-3	2/25/2009	VOCs	Chlorodibromomethane	5.2	ug/Kg	U	
Sediment	SED-SA2-GMCS-3	2/25/2009	VOCs	Chloroethane	5.2	ug/Kg	U	
Sediment	SED-SA2-GMCS-3	2/25/2009	VOCs	Chloroform	5.2	ug/Kg	U	
Sediment	SED-SA2-GMCS-3	2/25/2009	VOCs	Chloromethane	5.2	ug/Kg	U	
Sediment	SED-SA2-GMCS-3	2/25/2009	VOCs	cis-1,2-Dichloroethene	5.2	ug/Kg	U	
Sediment	SED-SA2-GMCS-3	2/25/2009	VOCs	cis-1,3-Dichloropropene	5.2	ug/Kg	U	

Sauget Area 2
Groundwater Migration Control System
Sediment Water Sample Results
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Media	Sample ID	Sample Date	Group	Chemical	Result	Units	Lab Qualifiers	URS Qualifiers
Sediment	SED-SA2-GMCS-3	2/25/2009	VOCs	Dichloromethane	5.2	ug/Kg	U	
Sediment	SED-SA2-GMCS-3	2/25/2009	VOCs	Ethylbenzene	5.2	ug/Kg	U	
Sediment	SED-SA2-GMCS-3	2/25/2009	VOCs	Methyl N-Butyl Ketone	26	ug/Kg	U	
Sediment	SED-SA2-GMCS-3	2/25/2009	VOCs	Styrene (Monomer)	5.2	ug/Kg	U	
Sediment	SED-SA2-GMCS-3	2/25/2009	VOCs	Tetrachloroethene	5.2	ug/Kg	U	
Sediment	SED-SA2-GMCS-3	2/25/2009	VOCs	Toluene	5.2	ug/Kg	U	
Sediment	SED-SA2-GMCS-3	2/25/2009	VOCs	trans-1,2-Dichloroethene	5.2	ug/Kg	U	UJ
Sediment	SED-SA2-GMCS-3	2/25/2009	VOCs	trans-1,3-Dichloropropene	5.2	ug/Kg	U	
Sediment	SED-SA2-GMCS-3	2/25/2009	VOCs	Trichloroethene	5.2	ug/Kg	U	
Sediment	SED-SA2-GMCS-3	2/25/2009	VOCs	Vinyl chloride	5.2	ug/Kg	U	
Sediment	SED-SA2-GMCS-3	2/25/2009	VOCs	Xylenes, Total	10	ug/Kg	U	
Sediment	SED-SA2-GMCS-3	2/25/2009	SVOCs	1,2,4-Trichlorobenzene	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-3	2/25/2009	SVOCs	1,2-Dichlorobenzene	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-3	2/25/2009	SVOCs	1,3-Dichlorobenzene	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-3	2/25/2009	SVOCs	1,4-Dichlorobenzene	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-3	2/25/2009	SVOCs	2,2'-Oxybis(1-Chloropropane) (bis-2-chloroisopropyl ether)	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-3	2/25/2009	SVOCs	2,4,5-Trichlorophenol	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-3	2/25/2009	SVOCs	2,4,6-Trichlorophenol	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-3	2/25/2009	SVOCs	2,4-Dichlorophenol	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-3	2/25/2009	SVOCs	2,4-Dimethylphenol	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-3	2/25/2009	SVOCs	2,4-Dinitrophenol	2000	ug/Kg	U	
Sediment	SED-SA2-GMCS-3	2/25/2009	SVOCs	2,4-Dinitrotoluene	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-3	2/25/2009	SVOCs	2,6-Dinitrotoluene	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-3	2/25/2009	SVOCs	2-Chloronaphthalene	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-3	2/25/2009	SVOCs	2-Chlorophenol	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-3	2/25/2009	SVOCs	2-Methylnaphthalene	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-3	2/25/2009	SVOCs	2-Methylphenol (o-Cresol)	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-3	2/25/2009	SVOCs	2-Nitroaniline	2000	ug/Kg	U	
Sediment	SED-SA2-GMCS-3	2/25/2009	SVOCs	2-Nitrophenol	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-3	2/25/2009	SVOCs	3 & 4 Methylphenol	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-3	2/25/2009	SVOCs	3,3'-Dichlorobenzidine	780	ug/Kg	U	
Sediment	SED-SA2-GMCS-3	2/25/2009	SVOCs	3-Nitroaniline	2000	ug/Kg	U	
Sediment	SED-SA2-GMCS-3	2/25/2009	SVOCs	4,6-Dinitro-2-methylphenol	2000	ug/Kg	U	
Sediment	SED-SA2-GMCS-3	2/25/2009	SVOCs	4-Bromophenyl Phenyl Ether	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-3	2/25/2009	SVOCs	4-Chloro-3-methylphenol	390	ug/Kg	U	

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Media	Sample ID	Sample Date	Group	Chemical	Result	Units	Lab Qualifiers	URS Qualifiers
Sediment	SED-SA2-GMCS-3	2/25/2009	SVOCs	4-Chlorophenyl Phenyl Ether	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-3	2/25/2009	SVOCs	4-Nitrophenol	2000	ug/Kg	U	
Sediment	SED-SA2-GMCS-3	2/25/2009	SVOCs	Acenaphthene	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-3	2/25/2009	SVOCs	Acenaphthylene	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-3	2/25/2009	SVOCs	Anthracene	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-3	2/25/2009	SVOCs	Benzo(a)anthracene	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-3	2/25/2009	SVOCs	Benzo(a)pyrene	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-3	2/25/2009	SVOCs	Benzo(b)fluoranthene	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-3	2/25/2009	SVOCs	Benzo(g,h,i)perylene	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-3	2/25/2009	SVOCs	Benzo(k)fluoranthene	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-3	2/25/2009	SVOCs	Benzyl Butyl Phthalate	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-3	2/25/2009	SVOCs	bis(2-Chloroethoxy)methane	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-3	2/25/2009	SVOCs	bis(2-Chloroethyl)ether	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-3	2/25/2009	SVOCs	bis(2-Ethylhexyl)phthalate	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-3	2/25/2009	SVOCs	Carbazole	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-3	2/25/2009	SVOCs	Chrysene	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-3	2/25/2009	SVOCs	Dibenzo(a,h)anthracene	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-3	2/25/2009	SVOCs	Dibenzofuran	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-3	2/25/2009	SVOCs	Diethyl Phthalate	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-3	2/25/2009	SVOCs	Dimethyl Phthalate	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-3	2/25/2009	SVOCs	Di-n-butylphthalate	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-3	2/25/2009	SVOCs	Di-n-octylphthalate	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-3	2/25/2009	SVOCs	Dinoseb	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-3	2/25/2009	SVOCs	Fluoranthene	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-3	2/25/2009	SVOCs	Fluorene	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-3	2/25/2009	SVOCs	Hexachlorobenzene	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-3	2/25/2009	SVOCs	Hexachlorobutadiene	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-3	2/25/2009	SVOCs	Hexachlorocyclopentadiene	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-3	2/25/2009	SVOCs	Hexachloroethane	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-3	2/25/2009	SVOCs	Indeno(1,2,3-cd)pyrene	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-3	2/25/2009	SVOCs	Isophorone	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-3	2/25/2009	SVOCs	Naphthalene	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-3	2/25/2009	SVOCs	Nitrobenzene	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-3	2/25/2009	SVOCs	N-Nitroso-di-n-propylamine	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-3	2/25/2009	SVOCs	N-Nitrosodiphenylamine	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-3	2/25/2009	SVOCs	P-Chloroaniline	780	ug/Kg	U	

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Media	Sample ID	Sample Date	Group	Chemical	Result	Units	Lab Qualifiers	URS Qualifiers
Sediment	SED-SA2-GMCS-3	2/25/2009	SVOCs	Phenanthrene	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-3	2/25/2009	SVOCs	Phenol	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-3	2/25/2009	SVOCs	P-Nitroaniline	2000	ug/Kg	U	
Sediment	SED-SA2-GMCS-3	2/25/2009	SVOCs	Pyrene	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-3	2/25/2009	Pesticides	4,4'-DDD	3.9	ug/Kg	U	
Sediment	SED-SA2-GMCS-3	2/25/2009	Pesticides	4,4'-DDE	3.9	ug/Kg	U	
Sediment	SED-SA2-GMCS-3	2/25/2009	Pesticides	4,4'-DDT	3.9	ug/Kg	U	
Sediment	SED-SA2-GMCS-3	2/25/2009	Pesticides	Aldrin	2	ug/Kg	U	
Sediment	SED-SA2-GMCS-3	2/25/2009	Pesticides	alpha-BHC	2	ug/Kg	U	
Sediment	SED-SA2-GMCS-3	2/25/2009	Pesticides	alpha-Chlordane	2	ug/Kg	U	
Sediment	SED-SA2-GMCS-3	2/25/2009	Pesticides	beta-BHC	2	ug/Kg	U	
Sediment	SED-SA2-GMCS-3	2/25/2009	Pesticides	delta-BHC	2	ug/Kg	U	
Sediment	SED-SA2-GMCS-3	2/25/2009	Pesticides	Dieldrin	3.9	ug/Kg	U	
Sediment	SED-SA2-GMCS-3	2/25/2009	Pesticides	Endosulfan I	2	ug/Kg	U	
Sediment	SED-SA2-GMCS-3	2/25/2009	Pesticides	Endosulfan II	3.9	ug/Kg	U	
Sediment	SED-SA2-GMCS-3	2/25/2009	Pesticides	Endosulfan Sulfate	3.9	ug/Kg	U	
Sediment	SED-SA2-GMCS-3	2/25/2009	Pesticides	Endrin	3.9	ug/Kg	U	
Sediment	SED-SA2-GMCS-3	2/25/2009	Pesticides	Endrin Aldehyde	3.9	ug/Kg	U	
Sediment	SED-SA2-GMCS-3	2/25/2009	Pesticides	Endrin Ketone	3.9	ug/Kg	U	
Sediment	SED-SA2-GMCS-3	2/25/2009	Pesticides	gamma-BHC (Lindane)	2	ug/Kg	U	
Sediment	SED-SA2-GMCS-3	2/25/2009	Pesticides	gamma-Chlordane	2	ug/Kg	U	
Sediment	SED-SA2-GMCS-3	2/25/2009	Pesticides	Heptachlor	2	ug/Kg	U	
Sediment	SED-SA2-GMCS-3	2/25/2009	Pesticides	Heptachlor Epoxide	2	ug/Kg	U	
Sediment	SED-SA2-GMCS-3	2/25/2009	Pesticides	Methoxychlor	20	ug/Kg	U	
Sediment	SED-SA2-GMCS-3	2/25/2009	Pesticides	Toxaphene	200	ug/Kg	U	
Sediment	SED-SA2-GMCS-3	2/25/2009	Herbicides	2,4,5-T	9.8	ug/Kg	U	
Sediment	SED-SA2-GMCS-3	2/25/2009	Herbicides	2,4,5-TP (Silvex)	9.8	ug/Kg	U	
Sediment	SED-SA2-GMCS-3	2/25/2009	Herbicides	2,4-D	9.8	ug/Kg	U	
Sediment	SED-SA2-GMCS-3	2/25/2009	Herbicides	2,4-DB	9.8	ug/Kg	U	
Sediment	SED-SA2-GMCS-3	2/25/2009	Herbicides	Dalapon	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-3	2/25/2009	Herbicides	Dicamba	9.8	ug/Kg	U	
Sediment	SED-SA2-GMCS-3	2/25/2009	Herbicides	Dichlorprop	4.1	ug/Kg	J	
Sediment	SED-SA2-GMCS-3	2/25/2009	Herbicides	MCPA (2-Methyl-4-Chlorophenoxyacetic Acid)	2400	ug/Kg	U	
Sediment	SED-SA2-GMCS-3	2/25/2009	Herbicides	MCPP	2400	ug/Kg	U	
Sediment	SED-SA2-GMCS-3	2/25/2009	Herbicides	Pentachlorophenol	9.8	ug/Kg	U	

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Media	Sample ID	Sample Date	Group	Chemical	Result	Units	Lab Qualifiers	URS Qualifiers
Sediment	SED-SA2-GMCS-3	2/25/2009	Metals	Aluminum	1200	mg/Kg		
Sediment	SED-SA2-GMCS-3	2/25/2009	Metals	Antimony	2.3	mg/Kg	U	
Sediment	SED-SA2-GMCS-3	2/25/2009	Metals	Arsenic	1.5	mg/Kg		
Sediment	SED-SA2-GMCS-3	2/25/2009	Metals	Barium	17	mg/Kg		
Sediment	SED-SA2-GMCS-3	2/25/2009	Metals	Beryllium	0.077	mg/Kg	J	
Sediment	SED-SA2-GMCS-3	2/25/2009	Metals	Cadmium	0.57	mg/Kg	U	
Sediment	SED-SA2-GMCS-3	2/25/2009	Metals	Calcium	670	mg/Kg		
Sediment	SED-SA2-GMCS-3	2/25/2009	Metals	Chromium	4.1	mg/Kg		
Sediment	SED-SA2-GMCS-3	2/25/2009	Metals	Cobalt	3.4	mg/Kg		
Sediment	SED-SA2-GMCS-3	2/25/2009	Metals	Copper	1.4	mg/Kg	J	
Sediment	SED-SA2-GMCS-3	2/25/2009	Metals	Iron	4500	mg/Kg	B	
Sediment	SED-SA2-GMCS-3	2/25/2009	Metals	Lead	2.5	mg/Kg		
Sediment	SED-SA2-GMCS-3	2/25/2009	Metals	Magnesium	690	mg/Kg	B	
Sediment	SED-SA2-GMCS-3	2/25/2009	Metals	Manganese	76	mg/Kg		
Sediment	SED-SA2-GMCS-3	2/25/2009	Metals	Mercury	0.021	mg/Kg	U	
Sediment	SED-SA2-GMCS-3	2/25/2009	Metals	Nickel	8.4	mg/Kg		
Sediment	SED-SA2-GMCS-3	2/25/2009	Metals	Potassium	190	mg/Kg		
Sediment	SED-SA2-GMCS-3	2/25/2009	Metals	Selenium	2.8	mg/Kg	U	
Sediment	SED-SA2-GMCS-3	2/25/2009	Metals	Silver	1.1	mg/Kg	U	
Sediment	SED-SA2-GMCS-3	2/25/2009	Metals	Sodium	110	mg/Kg	U	
Sediment	SED-SA2-GMCS-3	2/25/2009	Metals	Thallium	2.8	mg/Kg	U	
Sediment	SED-SA2-GMCS-3	2/25/2009	Metals	Vanadium	5.8	mg/Kg		
Sediment	SED-SA2-GMCS-3	2/25/2009	Metals	Zinc	11	mg/Kg		
Sediment	SED-SA2-GMCS-4	2/25/2009	VOCs	1,1,1-Trichloroethane	5.5	ug/Kg	U	
Sediment	SED-SA2-GMCS-4	2/25/2009	VOCs	1,1,2,2-Tetrachloroethane	5.5	ug/Kg	U	
Sediment	SED-SA2-GMCS-4	2/25/2009	VOCs	1,1,2-Trichloroethane	5.5	ug/Kg	U	
Sediment	SED-SA2-GMCS-4	2/25/2009	VOCs	1,1-Dichloroethane	5.5	ug/Kg	U	
Sediment	SED-SA2-GMCS-4	2/25/2009	VOCs	1,1-Dichloroethylene	5.5	ug/Kg	U	
Sediment	SED-SA2-GMCS-4	2/25/2009	VOCs	1,2-Dichloroethane	5.5	ug/Kg	U	
Sediment	SED-SA2-GMCS-4	2/25/2009	VOCs	1,2-Dichloropropane	5.5	ug/Kg	U	
Sediment	SED-SA2-GMCS-4	2/25/2009	VOCs	2-Butanone (MEK)	27	ug/Kg	U	
Sediment	SED-SA2-GMCS-4	2/25/2009	VOCs	4-Methyl-2-pentanone (MIBK)	27	ug/Kg	U	
Sediment	SED-SA2-GMCS-4	2/25/2009	VOCs	Acetone	55	ug/Kg	U	
Sediment	SED-SA2-GMCS-4	2/25/2009	VOCs	Benzene	5.5	ug/Kg	U	
Sediment	SED-SA2-GMCS-4	2/25/2009	VOCs	Bromodichloromethane	5.5	ug/Kg	U	
Sediment	SED-SA2-GMCS-4	2/25/2009	VOCs	Bromoform	5.5	ug/Kg	U	

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Media	Sample ID	Sample Date	Group	Chemical	Result	Units	Lab Qualifiers	URS Qualifiers
Sediment	SED-SA2-GMCS-4	2/25/2009	VOCs	Bromomethane	5.5	ug/Kg	U	
Sediment	SED-SA2-GMCS-4	2/25/2009	VOCs	Carbon Dioxide	700	ug/Kg	T B J N	
Sediment	SED-SA2-GMCS-4	2/25/2009	VOCs	Carbon Disulfide	5.5	ug/Kg	U	
Sediment	SED-SA2-GMCS-4	2/25/2009	VOCs	Carbon Tetrachloride	5.5	ug/Kg	U	
Sediment	SED-SA2-GMCS-4	2/25/2009	VOCs	Chlorobenzene	5.5	ug/Kg	U	
Sediment	SED-SA2-GMCS-4	2/25/2009	VOCs	Chlorodibromomethane	5.5	ug/Kg	U	
Sediment	SED-SA2-GMCS-4	2/25/2009	VOCs	Chloroethane	5.5	ug/Kg	U	
Sediment	SED-SA2-GMCS-4	2/25/2009	VOCs	Chloroform	5.5	ug/Kg	U	
Sediment	SED-SA2-GMCS-4	2/25/2009	VOCs	Chloromethane	5.5	ug/Kg	U	
Sediment	SED-SA2-GMCS-4	2/25/2009	VOCs	cis-1,2-Dichloroethene	5.5	ug/Kg	U	
Sediment	SED-SA2-GMCS-4	2/25/2009	VOCs	cis-1,3-Dichloropropene	5.5	ug/Kg	U	
Sediment	SED-SA2-GMCS-4	2/25/2009	VOCs	Dichloromethane	5.5	ug/Kg	U	
Sediment	SED-SA2-GMCS-4	2/25/2009	VOCs	Ethylbenzene	5.5	ug/Kg	U	
Sediment	SED-SA2-GMCS-4	2/25/2009	VOCs	Methyl N-Butyl Ketone	27	ug/Kg	U	
Sediment	SED-SA2-GMCS-4	2/25/2009	VOCs	Styrene (Monomer)	5.5	ug/Kg	U	
Sediment	SED-SA2-GMCS-4	2/25/2009	VOCs	Tetrachloroethene	5.5	ug/Kg	U	
Sediment	SED-SA2-GMCS-4	2/25/2009	VOCs	Toluene	5.5	ug/Kg	U	
Sediment	SED-SA2-GMCS-4	2/25/2009	VOCs	trans-1,2-Dichloroethene	5.5	ug/Kg	U	
Sediment	SED-SA2-GMCS-4	2/25/2009	VOCs	trans-1,3-Dichloropropene	5.5	ug/Kg	U	
Sediment	SED-SA2-GMCS-4	2/25/2009	VOCs	Trichloroethene	5.5	ug/Kg	U	
Sediment	SED-SA2-GMCS-4	2/25/2009	VOCs	Vinyl chloride	5.5	ug/Kg	U	
Sediment	SED-SA2-GMCS-4	2/25/2009	VOCs	Xylenes, Total	11	ug/Kg	U	
Sediment	SED-SA2-GMCS-4	2/25/2009	SVOCs	1,2,4-Trichlorobenzene	380	ug/Kg	U	
Sediment	SED-SA2-GMCS-4	2/25/2009	SVOCs	1,2-Dichlorobenzene	380	ug/Kg	U	
Sediment	SED-SA2-GMCS-4	2/25/2009	SVOCs	1,3-Dichlorobenzene	380	ug/Kg	U	
Sediment	SED-SA2-GMCS-4	2/25/2009	SVOCs	1,4-Dichlorobenzene	380	ug/Kg	U	
Sediment	SED-SA2-GMCS-4	2/25/2009	SVOCs	2,2'-Oxybis(1-Chloropropane) (bis-2-chloroisopropyl ether)	380	ug/Kg	U	
Sediment	SED-SA2-GMCS-4	2/25/2009	SVOCs	2,4,5-Trichlorophenol	380	ug/Kg	U	
Sediment	SED-SA2-GMCS-4	2/25/2009	SVOCs	2,4,6-Trichlorophenol	380	ug/Kg	U	
Sediment	SED-SA2-GMCS-4	2/25/2009	SVOCs	2,4-Dichlorophenol	380	ug/Kg	U	
Sediment	SED-SA2-GMCS-4	2/25/2009	SVOCs	2,4-Dimethylphenol	380	ug/Kg	U	
Sediment	SED-SA2-GMCS-4	2/25/2009	SVOCs	2,4-Dinitrophenol	1900	ug/Kg	U	
Sediment	SED-SA2-GMCS-4	2/25/2009	SVOCs	2,4-Dinitrotoluene	380	ug/Kg	U	
Sediment	SED-SA2-GMCS-4	2/25/2009	SVOCs	2,6-Dinitrotoluene	380	ug/Kg	U	
Sediment	SED-SA2-GMCS-4	2/25/2009	SVOCs	2-Chloronaphthalene	380	ug/Kg	U	

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Media	Sample ID	Sample Date	Group	Chemical	Result	Units	Lab Qualifiers	URS Qualifiers
Sediment	SED-SA2-GMCS-4	2/25/2009	SVOCs	2-Chlorophenol	380	ug/Kg	U	
Sediment	SED-SA2-GMCS-4	2/25/2009	SVOCs	2-Methylnaphthalene	380	ug/Kg	U	
Sediment	SED-SA2-GMCS-4	2/25/2009	SVOCs	2-Methylphenol (o-Cresol)	380	ug/Kg	U	
Sediment	SED-SA2-GMCS-4	2/25/2009	SVOCs	2-Nitroaniline	1900	ug/Kg	U	
Sediment	SED-SA2-GMCS-4	2/25/2009	SVOCs	2-Nitrophenol	380	ug/Kg	U	
Sediment	SED-SA2-GMCS-4	2/25/2009	SVOCs	3 & 4 Methylphenol	380	ug/Kg	U	
Sediment	SED-SA2-GMCS-4	2/25/2009	SVOCs	3,3'-Dichlorobenzidine	750	ug/Kg	U	
Sediment	SED-SA2-GMCS-4	2/25/2009	SVOCs	3-Nitroaniline	1900	ug/Kg	U	
Sediment	SED-SA2-GMCS-4	2/25/2009	SVOCs	4,6-Dinitro-2-methylphenol	1900	ug/Kg	U	
Sediment	SED-SA2-GMCS-4	2/25/2009	SVOCs	4-Bromophenyl Phenyl Ether	380	ug/Kg	U	
Sediment	SED-SA2-GMCS-4	2/25/2009	SVOCs	4-Chloro-3-methylphenol	380	ug/Kg	U	
Sediment	SED-SA2-GMCS-4	2/25/2009	SVOCs	4-Chlorophenyl Phenyl Ether	380	ug/Kg	U	
Sediment	SED-SA2-GMCS-4	2/25/2009	SVOCs	4-Nitrophenol	1900	ug/Kg	U	
Sediment	SED-SA2-GMCS-4	2/25/2009	SVOCs	Acenaphthene	380	ug/Kg	U	
Sediment	SED-SA2-GMCS-4	2/25/2009	SVOCs	Acenaphthylene	380	ug/Kg	U	
Sediment	SED-SA2-GMCS-4	2/25/2009	SVOCs	Anthracene	380	ug/Kg	U	
Sediment	SED-SA2-GMCS-4	2/25/2009	SVOCs	Benzo(a)anthracene	380	ug/Kg	U	
Sediment	SED-SA2-GMCS-4	2/25/2009	SVOCs	Benzo(a)pyrene	380	ug/Kg	U	
Sediment	SED-SA2-GMCS-4	2/25/2009	SVOCs	Benzo(b)fluoranthene	380	ug/Kg	U	
Sediment	SED-SA2-GMCS-4	2/25/2009	SVOCs	Benzo(g,h,i)perylene	380	ug/Kg	U	
Sediment	SED-SA2-GMCS-4	2/25/2009	SVOCs	Benzo(k)fluoranthene	380	ug/Kg	U	
Sediment	SED-SA2-GMCS-4	2/25/2009	SVOCs	Benzyl Butyl Phthalate	380	ug/Kg	U	
Sediment	SED-SA2-GMCS-4	2/25/2009	SVOCs	bis(2-Chloroethoxy)methane	380	ug/Kg	U	
Sediment	SED-SA2-GMCS-4	2/25/2009	SVOCs	bis(2-Chloroethyl)ether	380	ug/Kg	U	
Sediment	SED-SA2-GMCS-4	2/25/2009	SVOCs	bis(2-Ethylhexyl)phthalate	380	ug/Kg	U	
Sediment	SED-SA2-GMCS-4	2/25/2009	SVOCs	Carbazole	380	ug/Kg	U	
Sediment	SED-SA2-GMCS-4	2/25/2009	SVOCs	Chrysene	380	ug/Kg	U	
Sediment	SED-SA2-GMCS-4	2/25/2009	SVOCs	Dibenzo(a,h)anthracene	380	ug/Kg	U	
Sediment	SED-SA2-GMCS-4	2/25/2009	SVOCs	Dibenzofuran	380	ug/Kg	U	
Sediment	SED-SA2-GMCS-4	2/25/2009	SVOCs	Diethyl Phthalate	380	ug/Kg	U	
Sediment	SED-SA2-GMCS-4	2/25/2009	SVOCs	Dimethyl Phthalate	380	ug/Kg	U	
Sediment	SED-SA2-GMCS-4	2/25/2009	SVOCs	Di-n-butylphthalate	380	ug/Kg	U	
Sediment	SED-SA2-GMCS-4	2/25/2009	SVOCs	Di-n-octylphthalate	380	ug/Kg	U	
Sediment	SED-SA2-GMCS-4	2/25/2009	SVOCs	Dinoseb	380	ug/Kg	U	
Sediment	SED-SA2-GMCS-4	2/25/2009	SVOCs	Fluoranthene	380	ug/Kg	U	
Sediment	SED-SA2-GMCS-4	2/25/2009	SVOCs	Fluorene	380	ug/Kg	U	

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Media	Sample ID	Sample Date	Group	Chemical	Result	Units	Lab Qualifiers	URS Qualifiers
Sediment	SED-SA2-GMCS-4	2/25/2009	SVOCs	Hexachlorobenzene	380	ug/Kg	U	
Sediment	SED-SA2-GMCS-4	2/25/2009	SVOCs	Hexachlorobutadiene	380	ug/Kg	U	
Sediment	SED-SA2-GMCS-4	2/25/2009	SVOCs	Hexachlorocyclopentadiene	380	ug/Kg	U	
Sediment	SED-SA2-GMCS-4	2/25/2009	SVOCs	Hexachloroethane	380	ug/Kg	U	
Sediment	SED-SA2-GMCS-4	2/25/2009	SVOCs	Indeno(1,2,3-cd)pyrene	380	ug/Kg	U	
Sediment	SED-SA2-GMCS-4	2/25/2009	SVOCs	Isophorone	380	ug/Kg	U	
Sediment	SED-SA2-GMCS-4	2/25/2009	SVOCs	Naphthalene	380	ug/Kg	U	
Sediment	SED-SA2-GMCS-4	2/25/2009	SVOCs	Nitrobenzene	380	ug/Kg	U	
Sediment	SED-SA2-GMCS-4	2/25/2009	SVOCs	N-Nitroso-di-n-propylamine	380	ug/Kg	U	
Sediment	SED-SA2-GMCS-4	2/25/2009	SVOCs	N-Nitrosodiphenylamine	380	ug/Kg	U	
Sediment	SED-SA2-GMCS-4	2/25/2009	SVOCs	P-Chloroaniline	750	ug/Kg	U	
Sediment	SED-SA2-GMCS-4	2/25/2009	SVOCs	Phenanthrene	380	ug/Kg	U	
Sediment	SED-SA2-GMCS-4	2/25/2009	SVOCs	Phenol	380	ug/Kg	U	
Sediment	SED-SA2-GMCS-4	2/25/2009	SVOCs	P-Nitroaniline	1900	ug/Kg	U	
Sediment	SED-SA2-GMCS-4	2/25/2009	SVOCs	Pyrene	380	ug/Kg	U	
Sediment	SED-SA2-GMCS-4	2/25/2009	Pesticides	4,4'-DDD	3.7	ug/Kg	U	
Sediment	SED-SA2-GMCS-4	2/25/2009	Pesticides	4,4'-DDE	3.7	ug/Kg	U	
Sediment	SED-SA2-GMCS-4	2/25/2009	Pesticides	4,4'-DDT	3.7	ug/Kg	U	
Sediment	SED-SA2-GMCS-4	2/25/2009	Pesticides	Aldrin	1.9	ug/Kg	U	
Sediment	SED-SA2-GMCS-4	2/25/2009	Pesticides	alpha-BHC	1.9	ug/Kg	U	
Sediment	SED-SA2-GMCS-4	2/25/2009	Pesticides	alpha-Chlordane	1.9	ug/Kg	U	
Sediment	SED-SA2-GMCS-4	2/25/2009	Pesticides	beta-BHC	1.9	ug/Kg	U	
Sediment	SED-SA2-GMCS-4	2/25/2009	Pesticides	delta-BHC	1.9	ug/Kg	U	
Sediment	SED-SA2-GMCS-4	2/25/2009	Pesticides	Dieldrin	3.7	ug/Kg	U	
Sediment	SED-SA2-GMCS-4	2/25/2009	Pesticides	Endosulfan I	1.9	ug/Kg	U	
Sediment	SED-SA2-GMCS-4	2/25/2009	Pesticides	Endosulfan II	3.7	ug/Kg	U	
Sediment	SED-SA2-GMCS-4	2/25/2009	Pesticides	Endosulfan Sulfate	3.7	ug/Kg	U	
Sediment	SED-SA2-GMCS-4	2/25/2009	Pesticides	Endrin	3.7	ug/Kg	U	
Sediment	SED-SA2-GMCS-4	2/25/2009	Pesticides	Endrin Aldehyde	3.7	ug/Kg	U	
Sediment	SED-SA2-GMCS-4	2/25/2009	Pesticides	Endrin Ketone	3.7	ug/Kg	U	
Sediment	SED-SA2-GMCS-4	2/25/2009	Pesticides	gamma-BHC (Lindane)	1.9	ug/Kg	U	
Sediment	SED-SA2-GMCS-4	2/25/2009	Pesticides	gamma-Chlordane	1.9	ug/Kg	U	
Sediment	SED-SA2-GMCS-4	2/25/2009	Pesticides	Heptachlor	1.9	ug/Kg	U	
Sediment	SED-SA2-GMCS-4	2/25/2009	Pesticides	Heptachlor Epoxide	1.9	ug/Kg	U	
Sediment	SED-SA2-GMCS-4	2/25/2009	Pesticides	Methoxychlor	19	ug/Kg	U	
Sediment	SED-SA2-GMCS-4	2/25/2009	Pesticides	Toxaphene	190	ug/Kg	U	

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Media	Sample ID	Sample Date	Group	Chemical	Result	Units	Lab Qualifiers	URS Qualifiers
Sediment	SED-SA2-GMCS-4	2/25/2009	Herbicides	2,4,5-T	9.4	ug/Kg	U	
Sediment	SED-SA2-GMCS-4	2/25/2009	Herbicides	2,4,5-TP (Silvex)	9.4	ug/Kg	U	
Sediment	SED-SA2-GMCS-4	2/25/2009	Herbicides	2,4-D	9.4	ug/Kg	U	
Sediment	SED-SA2-GMCS-4	2/25/2009	Herbicides	2,4-DB	9.4	ug/Kg	U	
Sediment	SED-SA2-GMCS-4	2/25/2009	Herbicides	Dalapon	380	ug/Kg	U	
Sediment	SED-SA2-GMCS-4	2/25/2009	Herbicides	Dicamba	9.4	ug/Kg	U	
Sediment	SED-SA2-GMCS-4	2/25/2009	Herbicides	Dichlorprop	9.4	ug/Kg	U	
Sediment	SED-SA2-GMCS-4	2/25/2009	Herbicides	MCPA (2-Methyl-4-Chlorophenoxyacetic Acid)	2300	ug/Kg	U	
Sediment	SED-SA2-GMCS-4	2/25/2009	Herbicides	MCPP	2300	ug/Kg	U	
Sediment	SED-SA2-GMCS-4	2/25/2009	Herbicides	Pentachlorophenol	9.4	ug/Kg	U	
Sediment	SED-SA2-GMCS-4	2/25/2009	Metals	Aluminum	830	mg/Kg		
Sediment	SED-SA2-GMCS-4	2/25/2009	Metals	Antimony	0.24	mg/Kg	J	
Sediment	SED-SA2-GMCS-4	2/25/2009	Metals	Arsenic	1.8	mg/Kg		
Sediment	SED-SA2-GMCS-4	2/25/2009	Metals	Barium	14	mg/Kg		
Sediment	SED-SA2-GMCS-4	2/25/2009	Metals	Beryllium	0.074	mg/Kg	J	
Sediment	SED-SA2-GMCS-4	2/25/2009	Metals	Cadmium	0.57	mg/Kg	U	
Sediment	SED-SA2-GMCS-4	2/25/2009	Metals	Calcium	470	mg/Kg		
Sediment	SED-SA2-GMCS-4	2/25/2009	Metals	Chromium	2.7	mg/Kg		
Sediment	SED-SA2-GMCS-4	2/25/2009	Metals	Cobalt	2.7	mg/Kg		
Sediment	SED-SA2-GMCS-4	2/25/2009	Metals	Copper	1	mg/Kg	J	
Sediment	SED-SA2-GMCS-4	2/25/2009	Metals	Iron	3700	mg/Kg	B	
Sediment	SED-SA2-GMCS-4	2/25/2009	Metals	Lead	2	mg/Kg		
Sediment	SED-SA2-GMCS-4	2/25/2009	Metals	Magnesium	400	mg/Kg	B	
Sediment	SED-SA2-GMCS-4	2/25/2009	Metals	Manganese	76	mg/Kg		
Sediment	SED-SA2-GMCS-4	2/25/2009	Metals	Mercury	0.023	mg/Kg	U	
Sediment	SED-SA2-GMCS-4	2/25/2009	Metals	Nickel	6.1	mg/Kg		
Sediment	SED-SA2-GMCS-4	2/25/2009	Metals	Potassium	150	mg/Kg		
Sediment	SED-SA2-GMCS-4	2/25/2009	Metals	Selenium	2.8	mg/Kg	U	
Sediment	SED-SA2-GMCS-4	2/25/2009	Metals	Silver	1.1	mg/Kg	U	
Sediment	SED-SA2-GMCS-4	2/25/2009	Metals	Sodium	110	mg/Kg	U	
Sediment	SED-SA2-GMCS-4	2/25/2009	Metals	Thallium	2.8	mg/Kg	U	
Sediment	SED-SA2-GMCS-4	2/25/2009	Metals	Vanadium	4.2	mg/Kg		
Sediment	SED-SA2-GMCS-4	2/25/2009	Metals	Zinc	7.2	mg/Kg		
Sediment	SED-SA2-GMCS-5	2/25/2009	VOCs	1,1,1-Trichloroethane	4.9	ug/Kg	U	
Sediment	SED-SA2-GMCS-5	2/25/2009	VOCs	1,1,2,2-Tetrachloroethane	4.9	ug/Kg	U	

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Media	Sample ID	Sample Date	Group	Chemical	Result	Units	Lab Qualifiers	URS Qualifiers
Sediment	SED-SA2-GMCS-5	2/25/2009	VOCs	1,1,2-Trichloroethane	4.9	ug/Kg	U	
Sediment	SED-SA2-GMCS-5	2/25/2009	VOCs	1,1-Dichloroethane	4.9	ug/Kg	U	
Sediment	SED-SA2-GMCS-5	2/25/2009	VOCs	1,1-Dichloroethylene	4.9	ug/Kg	U	
Sediment	SED-SA2-GMCS-5	2/25/2009	VOCs	1,2-Dichloroethane	4.9	ug/Kg	U	
Sediment	SED-SA2-GMCS-5	2/25/2009	VOCs	1,2-Dichloropropane	4.9	ug/Kg	U	
Sediment	SED-SA2-GMCS-5	2/25/2009	VOCs	2-Butanone (MEK)	25	ug/Kg	U	
Sediment	SED-SA2-GMCS-5	2/25/2009	VOCs	4-Methyl-2-pentanone (MIBK)	25	ug/Kg	U	
Sediment	SED-SA2-GMCS-5	2/25/2009	VOCs	Acetone	4.5	ug/Kg	J	U
Sediment	SED-SA2-GMCS-5	2/25/2009	VOCs	Benzene	4.9	ug/Kg	U	
Sediment	SED-SA2-GMCS-5	2/25/2009	VOCs	Bromodichloromethane	4.9	ug/Kg	U	
Sediment	SED-SA2-GMCS-5	2/25/2009	VOCs	Bromoform	4.9	ug/Kg	U	
Sediment	SED-SA2-GMCS-5	2/25/2009	VOCs	Bromomethane	4.9	ug/Kg	U	
Sediment	SED-SA2-GMCS-5	2/25/2009	VOCs	Carbon Dioxide	900	ug/Kg	T B J N	
Sediment	SED-SA2-GMCS-5	2/25/2009	VOCs	Carbon Disulfide	4.9	ug/Kg	U	
Sediment	SED-SA2-GMCS-5	2/25/2009	VOCs	Carbon Tetrachloride	4.9	ug/Kg	U	
Sediment	SED-SA2-GMCS-5	2/25/2009	VOCs	Chlorobenzene	1.7	ug/Kg	J	
Sediment	SED-SA2-GMCS-5	2/25/2009	VOCs	Chlorodibromomethane	4.9	ug/Kg	U	
Sediment	SED-SA2-GMCS-5	2/25/2009	VOCs	Chloroethane	4.9	ug/Kg	U	
Sediment	SED-SA2-GMCS-5	2/25/2009	VOCs	Chloroform	4.9	ug/Kg	U	
Sediment	SED-SA2-GMCS-5	2/25/2009	VOCs	Chloromethane	4.9	ug/Kg	U	
Sediment	SED-SA2-GMCS-5	2/25/2009	VOCs	cis-1,2-Dichloroethene	4.9	ug/Kg	U	
Sediment	SED-SA2-GMCS-5	2/25/2009	VOCs	cis-1,3-Dichloropropene	4.9	ug/Kg	U	
Sediment	SED-SA2-GMCS-5	2/25/2009	VOCs	Dichloromethane	4.9	ug/Kg	U	
Sediment	SED-SA2-GMCS-5	2/25/2009	VOCs	Ethylbenzene	4.9	ug/Kg	U	
Sediment	SED-SA2-GMCS-5	2/25/2009	VOCs	Methyl N-Butyl Ketone	25	ug/Kg	U	
Sediment	SED-SA2-GMCS-5	2/25/2009	VOCs	Styrene (Monomer)	4.9	ug/Kg	U	
Sediment	SED-SA2-GMCS-5	2/25/2009	VOCs	Tetrachloroethene	4.9	ug/Kg	U	
Sediment	SED-SA2-GMCS-5	2/25/2009	VOCs	Toluene	4.9	ug/Kg	U	
Sediment	SED-SA2-GMCS-5	2/25/2009	VOCs	trans-1,2-Dichloroethene	4.9	ug/Kg	U	
Sediment	SED-SA2-GMCS-5	2/25/2009	VOCs	trans-1,3-Dichloropropene	4.9	ug/Kg	U	
Sediment	SED-SA2-GMCS-5	2/25/2009	VOCs	Trichloroethene	4.9	ug/Kg	U	
Sediment	SED-SA2-GMCS-5	2/25/2009	VOCs	Vinyl chloride	4.9	ug/Kg	U	
Sediment	SED-SA2-GMCS-5	2/25/2009	VOCs	Xylenes, Total	9.8	ug/Kg	U	
Sediment	SED-SA2-GMCS-5	2/25/2009	SVOCs	1,2,4-Trichlorobenzene	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-5	2/25/2009	SVOCs	1,2-Dichlorobenzene	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-5	2/25/2009	SVOCs	1,3-Dichlorobenzene	390	ug/Kg	U	

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Media	Sample ID	Sample Date	Group	Chemical	Result	Units	Lab Qualifiers	URS Qualifiers
Sediment	SED-SA2-GMCS-5	2/25/2009	SVOCs	1,4-Dichlorobenzene	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-5	2/25/2009	SVOCs	2,2'-Oxybis(1-Chloropropane) (bis-2-chloroisopropyl ether)	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-5	2/25/2009	SVOCs	2,4,5-Trichlorophenol	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-5	2/25/2009	SVOCs	2,4,6-Trichlorophenol	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-5	2/25/2009	SVOCs	2,4-Dichlorophenol	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-5	2/25/2009	SVOCs	2,4-Dimethylphenol	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-5	2/25/2009	SVOCs	2,4-Dinitrophenol	2000	ug/Kg	U	
Sediment	SED-SA2-GMCS-5	2/25/2009	SVOCs	2,4-Dinitrotoluene	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-5	2/25/2009	SVOCs	2,6-Dinitrotoluene	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-5	2/25/2009	SVOCs	2-Chloronaphthalene	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-5	2/25/2009	SVOCs	2-Chlorophenol	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-5	2/25/2009	SVOCs	2-Methylnaphthalene	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-5	2/25/2009	SVOCs	2-Methylphenol (o-Cresol)	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-5	2/25/2009	SVOCs	2-Nitroaniline	2000	ug/Kg	U	
Sediment	SED-SA2-GMCS-5	2/25/2009	SVOCs	2-Nitrophenol	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-5	2/25/2009	SVOCs	3 & 4 Methylphenol	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-5	2/25/2009	SVOCs	3,3'-Dichlorobenzidine	770	ug/Kg	U	
Sediment	SED-SA2-GMCS-5	2/25/2009	SVOCs	3-Nitroaniline	2000	ug/Kg	U	
Sediment	SED-SA2-GMCS-5	2/25/2009	SVOCs	4,6-Dinitro-2-methylphenol	2000	ug/Kg	U	
Sediment	SED-SA2-GMCS-5	2/25/2009	SVOCs	4-Bromophenyl Phenyl Ether	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-5	2/25/2009	SVOCs	4-Chloro-3-methylphenol	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-5	2/25/2009	SVOCs	4-Chlorophenyl Phenyl Ether	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-5	2/25/2009	SVOCs	4-Nitrophenol	2000	ug/Kg	U	
Sediment	SED-SA2-GMCS-5	2/25/2009	SVOCs	Acenaphthene	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-5	2/25/2009	SVOCs	Acenaphthylene	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-5	2/25/2009	SVOCs	Anthracene	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-5	2/25/2009	SVOCs	Benzo(a)anthracene	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-5	2/25/2009	SVOCs	Benzo(a)pyrene	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-5	2/25/2009	SVOCs	Benzo(b)fluoranthene	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-5	2/25/2009	SVOCs	Benzo(g,h,i)perylene	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-5	2/25/2009	SVOCs	Benzo(k)fluoranthene	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-5	2/25/2009	SVOCs	Benzyl Butyl Phthalate	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-5	2/25/2009	SVOCs	bis(2-Chloroethoxy)methane	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-5	2/25/2009	SVOCs	bis(2-Chloroethyl)ether	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-5	2/25/2009	SVOCs	bis(2-Ethylhexyl)phthalate	390	ug/Kg	U	

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Media	Sample ID	Sample Date	Group	Chemical	Result	Units	Lab Qualifiers	URS Qualifiers
Sediment	SED-SA2-GMCS-5	2/25/2009	SVOCs	Carbazole	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-5	2/25/2009	SVOCs	Chrysene	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-5	2/25/2009	SVOCs	Dibenzo(a,h)anthracene	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-5	2/25/2009	SVOCs	Dibenzofuran	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-5	2/25/2009	SVOCs	Diethyl Phthalate	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-5	2/25/2009	SVOCs	Dimethyl Phthalate	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-5	2/25/2009	SVOCs	Di-n-butylphthalate	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-5	2/25/2009	SVOCs	Di-n-octylphthalate	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-5	2/25/2009	SVOCs	Dinoseb	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-5	2/25/2009	SVOCs	Fluoranthene	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-5	2/25/2009	SVOCs	Fluorene	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-5	2/25/2009	SVOCs	Hexachlorobenzene	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-5	2/25/2009	SVOCs	Hexachlorobutadiene	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-5	2/25/2009	SVOCs	Hexachlorocyclopentadiene	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-5	2/25/2009	SVOCs	Isophorone	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-5	2/25/2009	SVOCs	Naphthalene	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-5	2/25/2009	SVOCs	Nitrobenzene	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-5	2/25/2009	SVOCs	N-Nitroso-di-n-propylamine	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-5	2/25/2009	SVOCs	N-Nitrosodiphenylamine	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-5	2/25/2009	SVOCs	P-Chloroaniline	770	ug/Kg	U	
Sediment	SED-SA2-GMCS-5	2/25/2009	SVOCs	Phenanthrene	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-5	2/25/2009	SVOCs	Phenol	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-5	2/25/2009	SVOCs	P-Nitroaniline	2000	ug/Kg	U	
Sediment	SED-SA2-GMCS-5	2/25/2009	SVOCs	Pyrene	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-5	2/25/2009	Pesticides	4,4'-DDD	0.87	ug/Kg	J	
Sediment	SED-SA2-GMCS-5	2/25/2009	Pesticides	4,4'-DDE	3.9	ug/Kg	U	
Sediment	SED-SA2-GMCS-5	2/25/2009	Pesticides	4,4'-DDT	3.9	ug/Kg	U	
Sediment	SED-SA2-GMCS-5	2/25/2009	Pesticides	Aldrin	2	ug/Kg	U	
Sediment	SED-SA2-GMCS-5	2/25/2009	Pesticides	alpha-BHC	2	ug/Kg	U	
Sediment	SED-SA2-GMCS-5	2/25/2009	Pesticides	alpha-Chlordane	2	ug/Kg	U	
Sediment	SED-SA2-GMCS-5	2/25/2009	Pesticides	beta-BHC	2	ug/Kg	U	
Sediment	SED-SA2-GMCS-5	2/25/2009	Pesticides	delta-BHC	2	ug/Kg	U	
Sediment	SED-SA2-GMCS-5	2/25/2009	Pesticides	Dieldrin	3.9	ug/Kg	U	
Sediment	SED-SA2-GMCS-5	2/25/2009	Pesticides	Endosulfan I	2	ug/Kg	U	

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Media	Sample ID	Sample Date	Group	Chemical	Result	Units	Lab Qualifiers	URS Qualifiers
Sediment	SED-SA2-GMCS-5	2/25/2009	Pesticides	Endosulfan II	3.9	ug/Kg	U	
Sediment	SED-SA2-GMCS-5	2/25/2009	Pesticides	Endosulfan Sulfate	3.9	ug/Kg	U	
Sediment	SED-SA2-GMCS-5	2/25/2009	Pesticides	Endrin	3.9	ug/Kg	U	
Sediment	SED-SA2-GMCS-5	2/25/2009	Pesticides	Endrin Aldehyde	3.9	ug/Kg	U	
Sediment	SED-SA2-GMCS-5	2/25/2009	Pesticides	Endrin Ketone	3.9	ug/Kg	U	
Sediment	SED-SA2-GMCS-5	2/25/2009	Pesticides	gamma-BHC (Lindane)	2	ug/Kg	U	
Sediment	SED-SA2-GMCS-5	2/25/2009	Pesticides	gamma-Chlordane	2	ug/Kg	U	
Sediment	SED-SA2-GMCS-5	2/25/2009	Pesticides	Heptachlor	2	ug/Kg	U	
Sediment	SED-SA2-GMCS-5	2/25/2009	Pesticides	Heptachlor Epoxide	2	ug/Kg	U	
Sediment	SED-SA2-GMCS-5	2/25/2009	Pesticides	Methoxychlor	20	ug/Kg	U	
Sediment	SED-SA2-GMCS-5	2/25/2009	Pesticides	Toxaphene	200	ug/Kg	U	
Sediment	SED-SA2-GMCS-5	2/25/2009	Herbicides	2,4,5-T	9.8	ug/Kg	U	
Sediment	SED-SA2-GMCS-5	2/25/2009	Herbicides	2,4,5-TP (Silvex)	9.8	ug/Kg	U	
Sediment	SED-SA2-GMCS-5	2/25/2009	Herbicides	2,4-D	9.8	ug/Kg	U	
Sediment	SED-SA2-GMCS-5	2/25/2009	Herbicides	2,4-DB	9.8	ug/Kg	U	
Sediment	SED-SA2-GMCS-5	2/25/2009	Herbicides	Dalapon	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-5	2/25/2009	Herbicides	Dicamba	9.8	ug/Kg	U	
Sediment	SED-SA2-GMCS-5	2/25/2009	Herbicides	Dichlorprop	9.8	ug/Kg	U	
Sediment	SED-SA2-GMCS-5	2/25/2009	Herbicides	MCPA (2-Methyl-4-Chlorophenoxyacetic Acid)	2400	ug/Kg	U	
Sediment	SED-SA2-GMCS-5	2/25/2009	Herbicides	MCPP	2400	ug/Kg	U	
Sediment	SED-SA2-GMCS-5	2/25/2009	Herbicides	Pentachlorophenol	9.8	ug/Kg	U	
Sediment	SED-SA2-GMCS-5	2/25/2009	Metals	Aluminum	2400	mg/Kg		
Sediment	SED-SA2-GMCS-5	2/25/2009	Metals	Antimony	0.67	mg/Kg	J	
Sediment	SED-SA2-GMCS-5	2/25/2009	Metals	Arsenic	3.7	mg/Kg		
Sediment	SED-SA2-GMCS-5	2/25/2009	Metals	Barium	37	mg/Kg		
Sediment	SED-SA2-GMCS-5	2/25/2009	Metals	Beryllium	0.18	mg/Kg	J	
Sediment	SED-SA2-GMCS-5	2/25/2009	Metals	Cadmium	0.25	mg/Kg	J	
Sediment	SED-SA2-GMCS-5	2/25/2009	Metals	Calcium	1100	mg/Kg		J
Sediment	SED-SA2-GMCS-5	2/25/2009	Metals	Chromium	7.8	mg/Kg		
Sediment	SED-SA2-GMCS-5	2/25/2009	Metals	Cobalt	6.1	mg/Kg		
Sediment	SED-SA2-GMCS-5	2/25/2009	Metals	Copper	1.7	mg/Kg	J	
Sediment	SED-SA2-GMCS-5	2/25/2009	Metals	Iron	9400	mg/Kg	B	
Sediment	SED-SA2-GMCS-5	2/25/2009	Metals	Lead	4.2	mg/Kg		
Sediment	SED-SA2-GMCS-5	2/25/2009	Metals	Magnesium	880	mg/Kg	B	J
Sediment	SED-SA2-GMCS-5	2/25/2009	Metals	Manganese	230	mg/Kg		

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Media	Sample ID	Sample Date	Group	Chemical	Result	Units	Lab Qualifiers	URS Qualifiers
Sediment	SED-SA2-GMCS-5	2/25/2009	Metals	Mercury	0.021	mg/Kg	U	
Sediment	SED-SA2-GMCS-5	2/25/2009	Metals	Nickel	15	mg/Kg		
Sediment	SED-SA2-GMCS-5	2/25/2009	Metals	Potassium	160	mg/Kg		
Sediment	SED-SA2-GMCS-5	2/25/2009	Metals	Selenium	2.8	mg/Kg	U	
Sediment	SED-SA2-GMCS-5	2/25/2009	Metals	Silver	1.1	mg/Kg	U	
Sediment	SED-SA2-GMCS-5	2/25/2009	Metals	Sodium	110	mg/Kg	J	
Sediment	SED-SA2-GMCS-5	2/25/2009	Metals	Thallium	2.8	mg/Kg	U	
Sediment	SED-SA2-GMCS-5	2/25/2009	Metals	Vanadium	11	mg/Kg		
Sediment	SED-SA2-GMCS-5	2/25/2009	Metals	Zinc	18	mg/Kg		
Sediment	SED-SA2-GMCS-9	2/25/2009	VOCs	1,1,1-Trichloroethane	4.6	ug/Kg	U	
Sediment	SED-SA2-GMCS-9	2/25/2009	VOCs	1,1,2,2-Tetrachloroethane	4.6	ug/Kg	U	
Sediment	SED-SA2-GMCS-9	2/25/2009	VOCs	1,1,2-Trichloroethane	4.6	ug/Kg	U	
Sediment	SED-SA2-GMCS-9	2/25/2009	VOCs	1,1-Dichloroethane	4.6	ug/Kg	U	
Sediment	SED-SA2-GMCS-9	2/25/2009	VOCs	1,1-Dichloroethylene	4.6	ug/Kg	U	
Sediment	SED-SA2-GMCS-9	2/25/2009	VOCs	1,2-Dichloroethane	4.6	ug/Kg	U	
Sediment	SED-SA2-GMCS-9	2/25/2009	VOCs	1,2-Dichloropropane	4.6	ug/Kg	U	
Sediment	SED-SA2-GMCS-9	2/25/2009	VOCs	2-Butanone (MEK)	23	ug/Kg	U	
Sediment	SED-SA2-GMCS-9	2/25/2009	VOCs	4-Methyl-2-pentanone (MIBK)	23	ug/Kg	U	
Sediment	SED-SA2-GMCS-9	2/25/2009	VOCs	Acetone	4.6	ug/Kg	J	U
Sediment	SED-SA2-GMCS-9	2/25/2009	VOCs	Benzene	4.6	ug/Kg	U	
Sediment	SED-SA2-GMCS-9	2/25/2009	VOCs	Bromodichloromethane	4.6	ug/Kg	U	
Sediment	SED-SA2-GMCS-9	2/25/2009	VOCs	Bromoform	4.6	ug/Kg	U	
Sediment	SED-SA2-GMCS-9	2/25/2009	VOCs	Bromomethane	4.6	ug/Kg	U	
Sediment	SED-SA2-GMCS-9	2/25/2009	VOCs	Carbon Dioxide	910	ug/Kg	T B J N	
Sediment	SED-SA2-GMCS-9	2/25/2009	VOCs	Carbon Disulfide	4.6	ug/Kg	U	
Sediment	SED-SA2-GMCS-9	2/25/2009	VOCs	Carbon Tetrachloride	4.6	ug/Kg	U	
Sediment	SED-SA2-GMCS-9	2/25/2009	VOCs	Chlorobenzene	0.87	ug/Kg	J	
Sediment	SED-SA2-GMCS-9	2/25/2009	VOCs	Chlorodibromomethane	4.6	ug/Kg	U	
Sediment	SED-SA2-GMCS-9	2/25/2009	VOCs	Chloroethane	4.6	ug/Kg	U	
Sediment	SED-SA2-GMCS-9	2/25/2009	VOCs	Chloroform	4.6	ug/Kg	U	
Sediment	SED-SA2-GMCS-9	2/25/2009	VOCs	Chloromethane	4.6	ug/Kg	U	
Sediment	SED-SA2-GMCS-9	2/25/2009	VOCs	cis-1,2-Dichloroethene	4.6	ug/Kg	U	
Sediment	SED-SA2-GMCS-9	2/25/2009	VOCs	cis-1,3-Dichloropropene	4.6	ug/Kg	U	
Sediment	SED-SA2-GMCS-9	2/25/2009	VOCs	Dichloromethane	4.6	ug/Kg	U	
Sediment	SED-SA2-GMCS-9	2/25/2009	VOCs	Ethylbenzene	4.6	ug/Kg	U	
Sediment	SED-SA2-GMCS-9	2/25/2009	VOCs	Methyl N-Butyl Ketone	23	ug/Kg	U	

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Media	Sample ID	Sample Date	Group	Chemical	Result	Units	Lab Qualifiers	URS Qualifiers
Sediment	SED-SA2-GMCS-9	2/25/2009	VOCs	Styrene (Monomer)	4.6	ug/Kg	U	
Sediment	SED-SA2-GMCS-9	2/25/2009	VOCs	Tetrachloroethene	4.6	ug/Kg	U	
Sediment	SED-SA2-GMCS-9	2/25/2009	VOCs	Toluene	4.6	ug/Kg	U	
Sediment	SED-SA2-GMCS-9	2/25/2009	VOCs	trans-1,2-Dichloroethene	4.6	ug/Kg	U	
Sediment	SED-SA2-GMCS-9	2/25/2009	VOCs	trans-1,3-Dichloropropene	4.6	ug/Kg	U	
Sediment	SED-SA2-GMCS-9	2/25/2009	VOCs	Trichloroethene	4.6	ug/Kg	U	
Sediment	SED-SA2-GMCS-9	2/25/2009	VOCs	Vinyl chloride	4.6	ug/Kg	U	
Sediment	SED-SA2-GMCS-9	2/25/2009	VOCs	Xylenes, Total	9.3	ug/Kg	U	
Sediment	SED-SA2-GMCS-9	2/25/2009	SVOCs	1,2,4-Trichlorobenzene	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-9	2/25/2009	SVOCs	1,2-Dichlorobenzene	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-9	2/25/2009	SVOCs	1,3-Dichlorobenzene	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-9	2/25/2009	SVOCs	1,4-Dichlorobenzene	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-9	2/25/2009	SVOCs	2,2'-Oxybis(1-Chloropropane) (bis-2-chloroisopropyl ether)	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-9	2/25/2009	SVOCs	2,4,5-Trichlorophenol	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-9	2/25/2009	SVOCs	2,4,6-Trichlorophenol	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-9	2/25/2009	SVOCs	2,4-Dichlorophenol	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-9	2/25/2009	SVOCs	2,4-Dimethylphenol	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-9	2/25/2009	SVOCs	2,4-Dinitrophenol	2000	ug/Kg	U	
Sediment	SED-SA2-GMCS-9	2/25/2009	SVOCs	2,4-Dinitrotoluene	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-9	2/25/2009	SVOCs	2,6-Dinitrotoluene	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-9	2/25/2009	SVOCs	2-Chloronaphthalene	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-9	2/25/2009	SVOCs	2-Chlorophenol	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-9	2/25/2009	SVOCs	2-Methylnaphthalene	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-9	2/25/2009	SVOCs	2-Methylphenol (o-Cresol)	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-9	2/25/2009	SVOCs	2-Nitroaniline	2000	ug/Kg	U	
Sediment	SED-SA2-GMCS-9	2/25/2009	SVOCs	2-Nitrophenol	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-9	2/25/2009	SVOCs	3 & 4 Methylphenol	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-9	2/25/2009	SVOCs	3,3'-Dichlorobenzidine	780	ug/Kg	U	
Sediment	SED-SA2-GMCS-9	2/25/2009	SVOCs	3-Nitroaniline	2000	ug/Kg	U	
Sediment	SED-SA2-GMCS-9	2/25/2009	SVOCs	4,6-Dinitro-2-methylphenol	2000	ug/Kg	U	
Sediment	SED-SA2-GMCS-9	2/25/2009	SVOCs	4-Bromophenyl Phenyl Ether	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-9	2/25/2009	SVOCs	4-Chloro-3-methylphenol	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-9	2/25/2009	SVOCs	4-Chlorophenyl Phenyl Ether	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-9	2/25/2009	SVOCs	4-Nitrophenol	2000	ug/Kg	U	
Sediment	SED-SA2-GMCS-9	2/25/2009	SVOCs	Acenaphthene	390	ug/Kg	U	

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Media	Sample ID	Sample Date	Group	Chemical	Result	Units	Lab Qualifiers	URS Qualifiers
Sediment	SED-SA2-GMCS-9	2/25/2009	SVOCs	Acenaphthylene	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-9	2/25/2009	SVOCs	Anthracene	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-9	2/25/2009	SVOCs	Benzo(a)anthracene	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-9	2/25/2009	SVOCs	Benzo(a)pyrene	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-9	2/25/2009	SVOCs	Benzo(b)fluoranthene	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-9	2/25/2009	SVOCs	Benzo(g,h,i)perylene	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-9	2/25/2009	SVOCs	Benzo(k)fluoranthene	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-9	2/25/2009	SVOCs	Benzyl Butyl Phthalate	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-9	2/25/2009	SVOCs	bis(2-Chloroethoxy)methane	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-9	2/25/2009	SVOCs	bis(2-Chloroethyl)ether	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-9	2/25/2009	SVOCs	bis(2-Ethylhexyl)phthalate	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-9	2/25/2009	SVOCs	Carbazole	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-9	2/25/2009	SVOCs	Chrysene	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-9	2/25/2009	SVOCs	Dibenzo(a,h)anthracene	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-9	2/25/2009	SVOCs	Dibenzofuran	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-9	2/25/2009	SVOCs	Diethyl Phthalate	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-9	2/25/2009	SVOCs	Dimethyl Phthalate	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-9	2/25/2009	SVOCs	Di-n-butylphthalate	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-9	2/25/2009	SVOCs	Di-n-octylphthalate	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-9	2/25/2009	SVOCs	Dinoseb	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-9	2/25/2009	SVOCs	Fluoranthene	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-9	2/25/2009	SVOCs	Fluorene	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-9	2/25/2009	SVOCs	Hexachlorobenzene	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-9	2/25/2009	SVOCs	Hexachlorobutadiene	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-9	2/25/2009	SVOCs	Hexachlorocyclopentadiene	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-9	2/25/2009	SVOCs	Hexachloroethane	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-9	2/25/2009	SVOCs	Indeno(1,2,3-cd)pyrene	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-9	2/25/2009	SVOCs	Isophorone	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-9	2/25/2009	SVOCs	Naphthalene	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-9	2/25/2009	SVOCs	Nitrobenzene	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-9	2/25/2009	SVOCs	N-Nitroso-di-n-propylamine	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-9	2/25/2009	SVOCs	N-Nitrosodiphenylamine	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-9	2/25/2009	SVOCs	P-Chloroaniline	780	ug/Kg	U	
Sediment	SED-SA2-GMCS-9	2/25/2009	SVOCs	Phenanthrene	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-9	2/25/2009	SVOCs	Phenol	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-9	2/25/2009	SVOCs	P-Nitroaniline	2000	ug/Kg	U	

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Media	Sample ID	Sample Date	Group	Chemical	Result	Units	Lab Qualifiers	URS Qualifiers
Sediment	SED-SA2-GMCS-9	2/25/2009	SVOCs	Pyrene	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-9	2/25/2009	Pesticides	4,4'-DDD	3.9	ug/Kg	U	
Sediment	SED-SA2-GMCS-9	2/25/2009	Pesticides	4,4'-DDE	3.9	ug/Kg	U	
Sediment	SED-SA2-GMCS-9	2/25/2009	Pesticides	4,4'-DDT	3.9	ug/Kg	U	
Sediment	SED-SA2-GMCS-9	2/25/2009	Pesticides	Aldrin	2	ug/Kg	U	
Sediment	SED-SA2-GMCS-9	2/25/2009	Pesticides	alpha-BHC	2	ug/Kg	U	
Sediment	SED-SA2-GMCS-9	2/25/2009	Pesticides	alpha-Chlordane	2	ug/Kg	U	
Sediment	SED-SA2-GMCS-9	2/25/2009	Pesticides	beta-BHC	2	ug/Kg	U	
Sediment	SED-SA2-GMCS-9	2/25/2009	Pesticides	delta-BHC	2	ug/Kg	U	
Sediment	SED-SA2-GMCS-9	2/25/2009	Pesticides	Dieldrin	3.9	ug/Kg	U	
Sediment	SED-SA2-GMCS-9	2/25/2009	Pesticides	Endosulfan I	2	ug/Kg	U	
Sediment	SED-SA2-GMCS-9	2/25/2009	Pesticides	Endosulfan II	3.9	ug/Kg	U	
Sediment	SED-SA2-GMCS-9	2/25/2009	Pesticides	Endosulfan Sulfate	3.9	ug/Kg	U	
Sediment	SED-SA2-GMCS-9	2/25/2009	Pesticides	Endrin	3.9	ug/Kg	U	
Sediment	SED-SA2-GMCS-9	2/25/2009	Pesticides	Endrin Aldehyde	3.9	ug/Kg	U	
Sediment	SED-SA2-GMCS-9	2/25/2009	Pesticides	Endrin Ketone	3.9	ug/Kg	U	
Sediment	SED-SA2-GMCS-9	2/25/2009	Pesticides	gamma-BHC (Lindane)	2	ug/Kg	U	
Sediment	SED-SA2-GMCS-9	2/25/2009	Pesticides	gamma-Chlordane	2	ug/Kg	U	
Sediment	SED-SA2-GMCS-9	2/25/2009	Pesticides	Heptachlor	2	ug/Kg	U	
Sediment	SED-SA2-GMCS-9	2/25/2009	Pesticides	Heptachlor Epoxide	2	ug/Kg	U	
Sediment	SED-SA2-GMCS-9	2/25/2009	Pesticides	Methoxychlor	20	ug/Kg	U	
Sediment	SED-SA2-GMCS-9	2/25/2009	Pesticides	Toxaphene	200	ug/Kg	U	
Sediment	SED-SA2-GMCS-9	2/25/2009	Herbicides	2,4,5-T	9.9	ug/Kg	U	
Sediment	SED-SA2-GMCS-9	2/25/2009	Herbicides	2,4,5-TP (Silvex)	9.9	ug/Kg	U	
Sediment	SED-SA2-GMCS-9	2/25/2009	Herbicides	2,4-D	9.9	ug/Kg	U	
Sediment	SED-SA2-GMCS-9	2/25/2009	Herbicides	2,4-DB	9.9	ug/Kg	U	
Sediment	SED-SA2-GMCS-9	2/25/2009	Herbicides	Dalapon	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-9	2/25/2009	Herbicides	Dicamba	9.9	ug/Kg	U	
Sediment	SED-SA2-GMCS-9	2/25/2009	Herbicides	Dichlorprop	9.9	ug/Kg	U	
Sediment	SED-SA2-GMCS-9	2/25/2009	Herbicides	MCPA (2-Methyl-4-Chlorophenoxyacetic Acid)	2400	ug/Kg	U	
Sediment	SED-SA2-GMCS-9	2/25/2009	Herbicides	MCPP	2400	ug/Kg	U	
Sediment	SED-SA2-GMCS-9	2/25/2009	Herbicides	Pentachlorophenol	9.9	ug/Kg	U	
Sediment	SED-SA2-GMCS-9	2/25/2009	Metals	Aluminum	730	mg/Kg		
Sediment	SED-SA2-GMCS-9	2/25/2009	Metals	Antimony	2.3	mg/Kg	U	
Sediment	SED-SA2-GMCS-9	2/25/2009	Metals	Arsenic	1.2	mg/Kg		

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Media	Sample ID	Sample Date	Group	Chemical	Result	Units	Lab Qualifiers	URS Qualifiers
Sediment	SED-SA2-GMCS-9	2/25/2009	Metals	Barium	15	mg/Kg		
Sediment	SED-SA2-GMCS-9	2/25/2009	Metals	Beryllium	0.069	mg/Kg	J	
Sediment	SED-SA2-GMCS-9	2/25/2009	Metals	Cadmium	0.051	mg/Kg	J	
Sediment	SED-SA2-GMCS-9	2/25/2009	Metals	Calcium	790	mg/Kg		
Sediment	SED-SA2-GMCS-9	2/25/2009	Metals	Chromium	2.6	mg/Kg		
Sediment	SED-SA2-GMCS-9	2/25/2009	Metals	Cobalt	1.7	mg/Kg		
Sediment	SED-SA2-GMCS-9	2/25/2009	Metals	Copper	0.8	mg/Kg	J	
Sediment	SED-SA2-GMCS-9	2/25/2009	Metals	Iron	2900	mg/Kg	B	
Sediment	SED-SA2-GMCS-9	2/25/2009	Metals	Lead	1.7	mg/Kg		
Sediment	SED-SA2-GMCS-9	2/25/2009	Metals	Magnesium	430	mg/Kg	B	
Sediment	SED-SA2-GMCS-9	2/25/2009	Metals	Manganese	72	mg/Kg		
Sediment	SED-SA2-GMCS-9	2/25/2009	Metals	Mercury	0.022	mg/Kg	U	
Sediment	SED-SA2-GMCS-9	2/25/2009	Metals	Nickel	3.6	mg/Kg	J	
Sediment	SED-SA2-GMCS-9	2/25/2009	Metals	Potassium	150	mg/Kg		
Sediment	SED-SA2-GMCS-9	2/25/2009	Metals	Selenium	2.9	mg/Kg	U	
Sediment	SED-SA2-GMCS-9	2/25/2009	Metals	Silver	1.2	mg/Kg	U	
Sediment	SED-SA2-GMCS-9	2/25/2009	Metals	Sodium	120	mg/Kg	U	
Sediment	SED-SA2-GMCS-9	2/25/2009	Metals	Thallium	2.9	mg/Kg	U	
Sediment	SED-SA2-GMCS-9	2/25/2009	Metals	Vanadium	3.5	mg/Kg		
Sediment	SED-SA2-GMCS-9	2/25/2009	Metals	Zinc	5.7	mg/Kg		
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	VOCs	1,1,1-Trichloroethane	5	ug/Kg	U	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	VOCs	1,1,2,2-Tetrachloroethane	5	ug/Kg	U	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	VOCs	1,1,2-Trichloroethane	5	ug/Kg	U	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	VOCs	1,1-Dichloroethane	5	ug/Kg	U	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	VOCs	1,1-Dichloroethylene	5	ug/Kg	U	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	VOCs	1,2-Dichloroethane	5	ug/Kg	U	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	VOCs	1,2-Dichloropropane	5	ug/Kg	U	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	VOCs	2-Butanone (MEK)	25	ug/Kg	U	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	VOCs	4-Methyl-2-pentanone (MIBK)	25	ug/Kg	U	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	VOCs	Acetone	5.2	ug/Kg	J	U
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	VOCs	Benzene	5	ug/Kg	U	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	VOCs	Bromodichloromethane	5	ug/Kg	U	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	VOCs	Bromoform	5	ug/Kg	U	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	VOCs	Bromomethane	5	ug/Kg	U	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	VOCs	Carbon Dioxide	800	ug/Kg	T B J N	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	VOCs	Carbon Disulfide	5	ug/Kg	U	

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Groundwater Migration Control System
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Media	Sample ID	Sample Date	Group	Chemical	Result	Units	Lab Qualifiers	URS Qualifiers
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	VOCs	Carbon Tetrachloride	5	ug/Kg	U	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	VOCs	Chlorobenzene	5	ug/Kg	U	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	VOCs	Chlorodibromomethane	5	ug/Kg	U	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	VOCs	Chloroethane	5	ug/Kg	U	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	VOCs	Chloroform	5	ug/Kg	U	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	VOCs	Chloromethane	5	ug/Kg	U	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	VOCs	cis-1,2-Dichloroethene	5	ug/Kg	U	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	VOCs	cis-1,3-Dichloropropene	5	ug/Kg	U	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	VOCs	Dichloromethane	5	ug/Kg	U	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	VOCs	Ethylbenzene	5	ug/Kg	U	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	VOCs	Methyl N-Butyl Ketone	25	ug/Kg	U	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	VOCs	Styrene (Monomer)	5	ug/Kg	U	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	VOCs	Tetrachloroethene	5	ug/Kg	U	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	VOCs	Toluene	5	ug/Kg	U	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	VOCs	trans-1,2-Dichloroethene	5	ug/Kg	U	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	VOCs	trans-1,3-Dichloropropene	5	ug/Kg	U	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	VOCs	Trichloroethene	5	ug/Kg	U	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	VOCs	Vinyl chloride	5	ug/Kg	U	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	VOCs	Xylenes, Total	10	ug/Kg	U	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	SVOCs	1,2,4-Trichlorobenzene	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	SVOCs	1,2-Dichlorobenzene	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	SVOCs	1,3-Dichlorobenzene	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	SVOCs	1,4-Dichlorobenzene	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	SVOCs	2,2'-Oxybis(1-Chloropropane) (bis-2-chloroisopropyl ether)	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	SVOCs	2,4,5-Trichlorophenol	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	SVOCs	2,4,6-Trichlorophenol	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	SVOCs	2,4-Dichlorophenol	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	SVOCs	2,4-Dimethylphenol	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	SVOCs	2,4-Dinitrophenol	2000	ug/Kg	U	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	SVOCs	2,4-Dinitrotoluene	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	SVOCs	2,6-Dinitrotoluene	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	SVOCs	2-Chloronaphthalene	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	SVOCs	2-Chlorophenol	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	SVOCs	2-Methylnaphthalene	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	SVOCs	2-Methylphenol (o-Cresol)	390	ug/Kg	U	

Sauget Area 2
Groundwater Migration Control System
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Media	Sample ID	Sample Date	Group	Chemical	Result	Units	Lab Qualifiers	URS Qualifiers
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	SVOCs	2-Nitroaniline	2000	ug/Kg	U	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	SVOCs	2-Nitrophenol	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	SVOCs	3 & 4 Methylphenol	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	SVOCs	3,3'-Dichlorobenzidine	780	ug/Kg	U	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	SVOCs	3-Nitroaniline	2000	ug/Kg	U	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	SVOCs	4,6-Dinitro-2-methylphenol	2000	ug/Kg	U	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	SVOCs	4-Bromophenyl Phenyl Ether	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	SVOCs	4-Chloro-3-methylphenol	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	SVOCs	4-Chlorophenyl Phenyl Ether	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	SVOCs	4-Nitrophenol	2000	ug/Kg	U	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	SVOCs	Acenaphthene	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	SVOCs	Acenaphthylene	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	SVOCs	Anthracene	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	SVOCs	Benzo(a)anthracene	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	SVOCs	Benzo(a)pyrene	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	SVOCs	Benzo(b)fluoranthene	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	SVOCs	Benzo(g,h,i)perylene	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	SVOCs	Benzo(k)fluoranthene	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	SVOCs	Benzyl Butyl Phthalate	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	SVOCs	bis(2-Chloroethoxy)methane	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	SVOCs	bis(2-Chloroethyl)ether	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	SVOCs	bis(2-Ethylhexyl)phthalate	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	SVOCs	Carbazole	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	SVOCs	Chrysene	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	SVOCs	Dibenzo(a,h)anthracene	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	SVOCs	Dibenzofuran	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	SVOCs	Diethyl Phthalate	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	SVOCs	Dimethyl Phthalate	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	SVOCs	Di-n-butylphthalate	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	SVOCs	Di-n-octylphthalate	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	SVOCs	Dinoseb	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	SVOCs	Fluoranthene	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	SVOCs	Fluorene	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	SVOCs	Hexachlorobenzene	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	SVOCs	Hexachlorobutadiene	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	SVOCs	Hexachlorocyclopentadiene	390	ug/Kg	U	

Sauget Area 2
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Media	Sample ID	Sample Date	Group	Chemical	Result	Units	Lab Qualifiers	URS Qualifiers
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	SVOCs	Hexachloroethane	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	SVOCs	Indeno(1,2,3-cd)pyrene	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	SVOCs	Isophorone	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	SVOCs	Naphthalene	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	SVOCs	Nitrobenzene	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	SVOCs	N-Nitroso-di-n-propylamine	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	SVOCs	N-Nitrosodiphenylamine	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	SVOCs	P-Chloroaniline	780	ug/Kg	U	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	SVOCs	Phenanthrene	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	SVOCs	Phenol	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	SVOCs	P-Nitroaniline	2000	ug/Kg	U	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	SVOCs	Pyrene	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	Pesticides	4,4'-DDD	3.9	ug/Kg	U	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	Pesticides	4,4'-DDE	3.9	ug/Kg	U	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	Pesticides	4,4'-DDT	3.9	ug/Kg	U	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	Pesticides	Aldrin	2	ug/Kg	U	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	Pesticides	alpha-BHC	2	ug/Kg	U	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	Pesticides	alpha-Chlordane	2	ug/Kg	U	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	Pesticides	beta-BHC	2	ug/Kg	U	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	Pesticides	delta-BHC	2	ug/Kg	U	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	Pesticides	Dieldrin	3.9	ug/Kg	U	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	Pesticides	Endosulfan I	2	ug/Kg	U	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	Pesticides	Endosulfan II	3.9	ug/Kg	U	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	Pesticides	Endosulfan Sulfate	3.9	ug/Kg	U	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	Pesticides	Endrin	3.9	ug/Kg	U	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	Pesticides	Endrin Aldehyde	3.9	ug/Kg	U	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	Pesticides	Endrin Ketone	3.9	ug/Kg	U	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	Pesticides	gamma-BHC (Lindane)	2	ug/Kg	U	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	Pesticides	gamma-Chlordane	2	ug/Kg	U	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	Pesticides	Heptachlor	2	ug/Kg	U	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	Pesticides	Heptachlor Epoxide	2	ug/Kg	U	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	Pesticides	Methoxychlor	20	ug/Kg	U	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	Pesticides	Toxaphene	200	ug/Kg	U	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	Herbicides	2,4,5-T	9.8	ug/Kg	U	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	Herbicides	2,4,5-TP (Silvex)	9.8	ug/Kg	U	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	Herbicides	2,4-D	9.8	ug/Kg	U	

Sauget Area 2
Groundwater Migration Control System
Sediment Water Sample Results
February 2009

Media	Sample ID	Sample Date	Group	Chemical	Result	Units	Lab Qualifiers	URS Qualifiers
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	Herbicides	2,4-DB	9.8	ug/Kg	U	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	Herbicides	Dalapon	390	ug/Kg	U	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	Herbicides	Dicamba	9.8	ug/Kg	U	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	Herbicides	Dichlorprop	9.8	ug/Kg	U	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	Herbicides	MCPA (2-Methyl-4-Chlorophenoxyacetic Acid)	2400	ug/Kg	U	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	Herbicides	MCPP	2400	ug/Kg	U	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	Herbicides	Pentachlorophenol	9.8	ug/Kg	U	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	Metals	Aluminum	1200	mg/Kg		
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	Metals	Antimony	0.25	mg/Kg	J	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	Metals	Arsenic	1.2	mg/Kg		
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	Metals	Barium	16	mg/Kg		
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	Metals	Beryllium	0.11	mg/Kg	J	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	Metals	Cadmium	0.51	mg/Kg	U	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	Metals	Calcium	980	mg/Kg		
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	Metals	Chromium	3.8	mg/Kg		
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	Metals	Cobalt	2.9	mg/Kg		
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	Metals	Copper	0.89	mg/Kg	J	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	Metals	Iron	3600	mg/Kg	B	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	Metals	Lead	1.9	mg/Kg		
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	Metals	Magnesium	670	mg/Kg	B	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	Metals	Manganese	110	mg/Kg		
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	Metals	Mercury	0.02	mg/Kg	U	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	Metals	Nickel	7.1	mg/Kg		
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	Metals	Potassium	160	mg/Kg		
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	Metals	Selenium	2.5	mg/Kg	U	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	Metals	Silver	1	mg/Kg	U	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	Metals	Sodium	100	mg/Kg	U	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	Metals	Thallium	2.5	mg/Kg	U	
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	Metals	Vanadium	4.3	mg/Kg		
Sediment	SED-SA2-GMCS-9-DUP	2/25/2009	Metals	Zinc	11	mg/Kg		

URS

Qualifier Definition Table

Sauget Area 2
Groundwater Migration Control System
STL Data Qualifier Definitions

Qualifier	Definition	Notes
Organic Chemicals		
*	LCS, LCSD, MS, MSD, MD or Surrogate exceeds the control limits	
A	Tentatively identified compound (TIC) is a suspected aldol condensation product.	Only present in SA-O-1-SB-3 (SDG G53070192) for 1,2,3,4,7,8-HxCDD.
B	Compound is found in the associated method blank.	
CON	Confirmation Analysis	
D	Concentrations identified from analysis of the sample at a secondary dilution.	
E	Compounds whose concentrations exceed the upper calibration range of the instrument for that analysis.	
J	Estimated value - result reported is less than the reporting limit but greater than the instrument detection limit.	
P	Greater than 25% (40% for CLP) difference for detected concentrations between the two GC columns	
U	Compound analyzed for but not detected at a concentration above the reporting limit.	
Inorganic Chemical		
B	Compound is found in the associated method blank.	
J	Estimated value - result reported is less than the reporting limit but greater than the instrument detection limit.	
S	Indicates that the Method of Standard Additions (MSA) determined the reported value.	
U	Compound analyzed for but not detected at a concentration above the reporting limit.	
JA	Compound tentatively identified, suing theoretical ratios.	