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CNC CHARLESTON
5090.3a

SEDIMENT SAMPLING REPORT FOR ZONE J WITH TRANSMITTAL LETTERS CNC CHARLESTON SC 5/5/2006
SPECTRA TECH, INC.

Engineering & Environmental Services

May 5, 2006

Kathy Stewart
NAVFAC
2155 Eagle Drive
North Charleston, SC 29406

Re: Zone J Sediment Sampling Report

Dear Ms. Stewart:

Spectra Tech Inc. is pleased to submit the Zone J Sediment Sampling Report, Revision 0. If you have any questions regarding this document please call me at (865)483-7210.

Sincerely,

Robb A. Unger, P.E.
Vice President

cc: Jerry Stamps
Dann Spariosu
Dean Williamson
John Litton
Dudley Patrick

132 Jefferson Court, Oak Ridge, Tennessee 37830 (865)483-7210 (865)483-7262 (fax)
www.spectratechinc.com

May 5, 2006

Dudley Patrick
NAVFAC
2155 Eagle Drive
North Charleston, SC 29406

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Engineering & Environmental Services

May 5, 2006

Mr. John Litton
SCDHEC
Bureau of Land and Waste Management
2600 Bull Street
Columbia, SC 29203

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Jerry Stamps
SCDHEC
8901 Farrow Rd., Suite 109
Bureau of Land and Waste Management
Columbia, SC 29203

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Engineering & Environmental Services

May 5, 2006

Dan Spariosu
USEPA, Region 4
61 Forsyth St. SW
Atlanta, GA 30303

Re: Zone J Sediment Sampling Report

Dear Mr. Spariosu:

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Engineering & Environmental Services

May 5, 2006

Dean Williamson
CH2M-Hill
PO Box 147009
Gainesville, FL 32614-7009

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ZONE J SEDIMENT SAMPLING REPORT
CHARLESTON NAVAL COMPLEX, NORTH CHARLESTON,SC

Prepared for:

Department of Navy
Naval Facilities Engineering Command
Southern Division
2155 Eagle Drive
North Charleston, South Carolina 29419-9010

Contract No. N62467-05-C-0106

May 5, 2006

ACRONYM LIST

AOC	Area of Concern
CLEAN	Comprehensive Long-Term Environmental Action Navy
CNC	Charleston Naval Complex
COPCs	Contaminants of Potential Concern
EnSafe	EnSafe Inc.
ERM	Environmental Risks Effects Range Median
RCRA	Resource Conservation and Recovery Act
RFI	RCRA Facility Investigation
SLERA	Screening Level Ecological Risk Assessment
Spectra Tech	Spectra Tech, Inc.
SWMU	Solid Waste Management Unit
U.S.	United States

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1.0 INTRODUCTION

This Sediment Sampling Report has been prepared for Zone J, at the Charleston Naval Complex (CNC) (Figure 1-1) as part of the United States (U.S.) Navy Comprehensive Long-Term Environmental Action Navy (CLEAN) program under the Resource Conservation and Recovery Act (RCRA). Zone J is currently under a RCRA Facility Investigation (RFI) and it was determined by the Navy in order to expedite the RFI process sediment samples would be collected in areas determined to be of concern during the Draft Zone J screening level ecological risk assessment (SLERA) process.

Baseline sediment samples were collected to help quantify typical levels of both naturally occurring inorganic constituents and wide-spread organic constituents (like polynuclear aromatic hydrocarbons and pesticides) in areas nearby, but not likely to have been influenced by historical activities at CNC. Once analytical data is validated sediment sample results will be presented in a technical memorandum and submitted to the U.S. Navy to be utilized in the problem formulation portion of the SLERA in the Final Zone J RFI.

Spectra Tech, Inc. (Spectra Tech) was contracted by the Navy to prepare this CR upon completion of the sediment sampling activities. The CLEAN contractor, EnSafe Inc. (EnSafe), was subcontracted by Spectra Tech to provide technical support.

1.1 Site Description

Zone J consists of the Cooper River, Shipyard Creek, and Noisette Creek, which adjoin CNC properties. The CNC is on the western shore of the Cooper River, approximately 6.75 miles upriver from Fort Sumter. Its 3.75-mile waterfront is dominated by 25 piers and five drydocks, and is protected along most of its length by a wooden and/or concrete seawall. Industrial areas along the CNC's shoreline were associated primarily with the repair and maintenance of large ships. Both Noisette Creek and Shipyard Creek are bordered by less industrial areas, but point-source discharges (i.e., National Pollution Discharge Elimination System outfalls) are also present in these tributaries. Numerous storm water and/or industrial outfalls are also along the CNC shoreline.

Each Zone J water body, although part of the same dynamic watershed, is distinctly different in size, flow, and level of near shore industrialization; therefore, it was considered necessary to segregate the data collected from each water body and assess the Cooper River,

Shipyard Creek, and Noisette Creek as separate entities. A comprehensive description of each Zone J water body, surrounding land uses, and known locations of near shore Area of Concern (AOC)/Solid Waste Management Unit (SWMU) is presented in Section 4.0 of the Final Zone J RFI Work Plan (EnSafe/Allen & Hoshell, 1996).

1.2 Site History

A major component of the Zone J investigation was the completion of SLERAs for each water body to evaluate the potential exposure pathways and identify potential contaminants of potential concern (COPCs) for storm water effluent and sediment ecological effects evaluations for each of the water bodies. SLERAs for the three water bodies were submitted in September 2003 with screening level COPCs being identified for storm water and sediment. Based on the outcome of the SLERAs, the Navy submitted a technical memorandum (Linkage between Charleston Naval Complex Upland AOCs/SWMUs to Analytical Data from Sediment Samples Collected During the Zone J RFI, EnSafe, 2004) to present the ecological evaluations for media sampled during the Zone J RFI and determine the potential for upland source linkage to the sediments in the Charleston water bodies.

Storm water effluent, surface water, soil, groundwater, and sediment samples were evaluated and hazard quotients were calculated for the sediments to demonstrate a worst case scenario, Environmental Risk effects range Median (ERM) quotients were also calculated for sediments. The findings of the memorandum identified five sediment locations with high ERM quotients (Category 4) with CNC upland source linkage (Figure 1-2). However, several data uncertainty, assumptions, and conclusions were made in developing the memorandum:

1. Background sediment samples were never collected, therefore sediment data was not initially screened against an agreed upon reference value. ERM quotient results are presented as a secondary screening number.

2. Storm water data collected was post-Navy operations. Any screening criteria exceedances could not be 100% tied to Navy operations.

3. Upper interval soil data were screened against ERM values to establish areas of potential contamination, not single point sources.

4. Ground water data were screened to determine if conditions exist that would require immediate action.

5. Upper interval soil and groundwater data were not screened against established CNC background values.

6. Excavated areas eliminate on-going potential for contamination to ERM sediments.

To expedite the ERA process, the Navy agreed to resample ERM Quotient Category 4 sediment locations and generate baseline sediment concentrations to evaluate post Navy sediment conditions in the water bodies.

2.0 Sediment Sampling and Analysis

Robb Unger of Spectra Tech and Julie Shaffer and Henry Fellers of EnSafe, performed sediment sampling and analysis on 13 December, 2005. As shown in the table below and in Figure 2.1, a total of 15 sediment sample locations were sampled and analyzed to evaluate post Navy sediment conditions. Of the 15, five confirmatory locations specified in Table 2-1, previously determined to be ERM Quotient Category 3 or 4 with potential CNC site linkages were re-sampled. Ten additional sample locations were identified, sampled and can be used as baseline sediment samples. These ten locations were collected from within the ebb and flow tide cycle (Figure 2-1) of the CNC, and in addition, the baseline locations were in areas with similar physical parameters to the sediments from the CNC locations. The locations were identified after a boat survey was conducted on 23 June, 2005 with representatives from United States Navy, South Carolina Department of Health and Environmental Control, South Carolina Department of Natural Resources, Spectra Tech, and EnSafe.

Table 2.1
Zone J Sediment Sample Locations
Charleston Naval Complex, Charleston, SC

Location	Parameters	Sample Date	Collection Depth	Coordinates Northing/ Easting
NOIM000402	Inorganics, Mercury, SVOCs, Pesticides and PCBs	12/13/2005	9 ft	379342.000/ 2316378.000
054M000102	Inorganics, Mercury, SVOCs, Pesticides and PCBs	12/13/2005	8 ft	377807.612/ 2317881.383
556M000702	Inorganics, Mercury, SVOCs, Pesticides and PCBs	12/13/2005	17 ft	375906.556 / 2318749.274

Table 2.1
Zone J Sediment Sample Locations
Charleston Naval Complex, Charleston, SC

Location	Parameters	Sample Date	Collection Depth	Coordinates Northing/ Easting
556M000502	Inorganics, Mercury, SVOCs, Pesticides and PCBs	12/13/2005	13 ft	373754.634/ 2320576.406
009M000402	Inorganics, Mercury, SVOCs, Pesticides and PCBs	12/13/2005	1 ft	369942.000/ 2321438.000
BSLM0001	Inorganics, Mercury, SVOCs, Pesticides and PCBs	12/13/2005	6 ft	393719.4297/ 2322986.0950
BSLM0002	Inorganics, Mercury, SVOCs, Pesticides and PCBs	12/13/2005	6 ft	391713.7076/ 2323242.8441
BSLM0003	Inorganics, Mercury, SVOCs, Pesticides and PCBs	12/13/2005	5 ft	374071.4861/ 2327138.3487
BSLM0004	Inorganics, Mercury, SVOCs, Pesticides and PCBs	12/13/2005	5 ft	372771.3427 / 2328073.0373
BSLM0005	Inorganics, Mercury, SVOCs, Pesticides and PCBs	12/13/2005	5 ft	359962.5104/ 2334165.5203
BSLM0006	Inorganics, Mercury, SVOCs, Pesticides and PCBs	12/13/2005	11 ft	370599.6049 / 2339520.2522
BSLM0007	Inorganics, Mercury, SVOCs, Pesticides and PCBs	12/13/2005	9 ft	375078.1807/ 2339840.8292
BSLM0008	Inorganics, Mercury, SVOCs, Pesticides and PCBs	12/13/2005	8 ft	342234.7783 / 2328512.2807
BSLM0009	Inorganics, Mercury, SVOCs, Pesticides and PCBs	12/13/2005	9 ft	382007.8651/ 2316863.9798
BSLM0010	Inorganics, Mercury, SVOCs, Pesticides and PCBs	12/13/2005	5 ft	353284.8072/ 2330210.3835

Notes:
SVOCs = Semi-volatile organic compounds
PCBs = Polychlorinated byphenyls

Sampling procedures followed the Environmental Science Division, Standard Operating Procedures and Quality Assurance Manual, which lists several acceptable sampling techniques (dredging, scooping, coring) for collecting sediment samples from surface water bodies and dry land areas, depending upon sampling objectives. All sediment sampling locations were reached by boat with the exception of 009M000402. Due to a fence along Tidewater Road, which borders the eastern shore of Shipyard Creek, access to location 009000402 via CNC property was not possible, therefore; the location was reached via the Macalloy Superfund site property that is on the western side of Shipyard Creek.

Sediment samples generally were collected from the top six inches once the sediment surface was encountered. The samples were collected using a ponar dredge sampler, a steel, clam-shell type scoop activated by a cantilevered system, and analyzed for inorganics, SVOCs, pesticides, and PCBs.

All sampling equipment, bowls, spatulas, spoons, etc. were pre-cleaned and used only once and the ponar dredge was initially decontaminated with nitric acid, isopropanol, distilled water, and Alconox and a final rinse of distilled water. During sampling activities the ponar dredge was decontaminated of visible sediment using pressurized sea water from the on-board wash-down system. Standard quality control and quality assurance measures for sampling collection and documentation were also followed. A chain-of-custody form accompanied the sample shipment to document the transfer of custody from the time and point of collection until delivery to the laboratory for analysis.

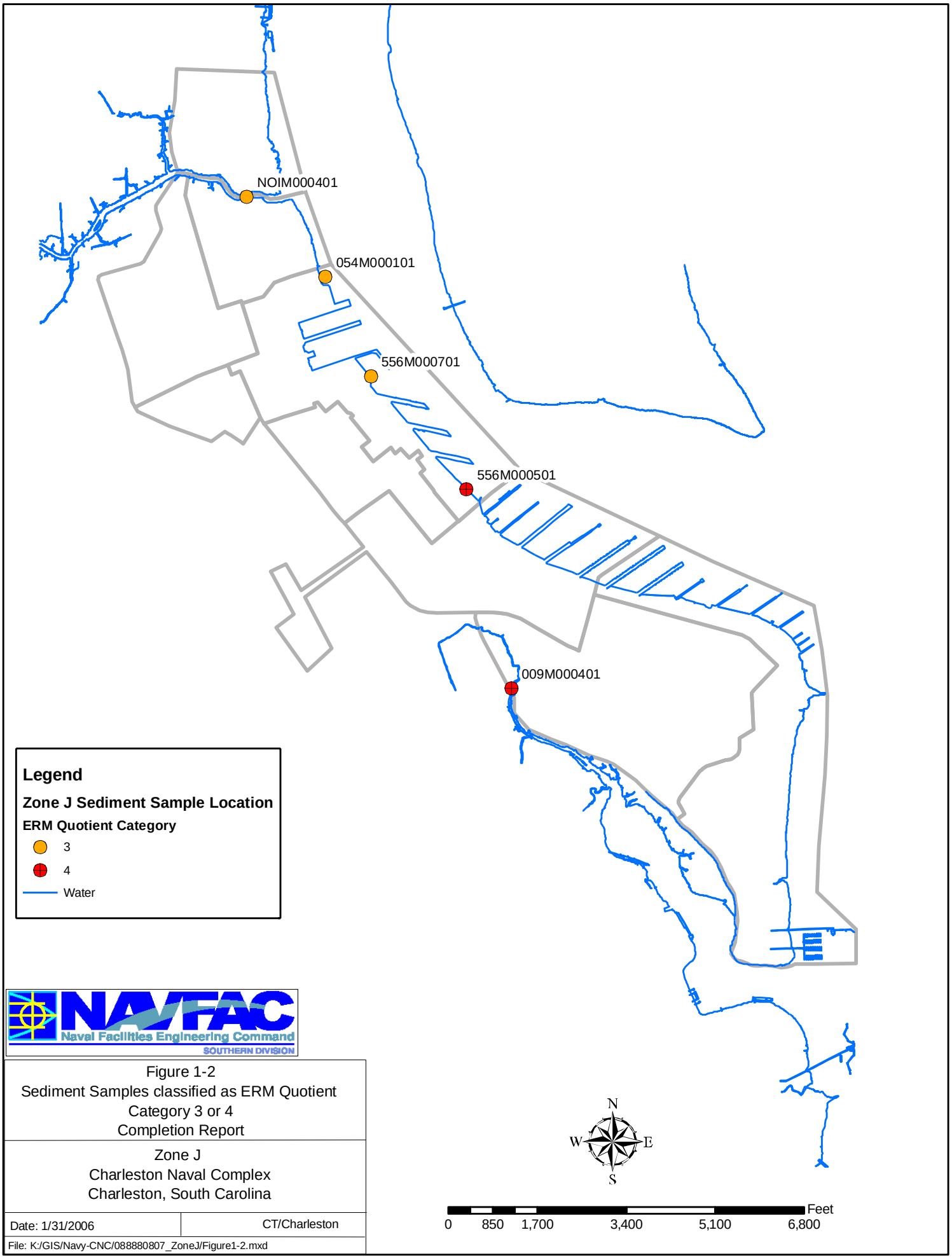


Figure 1-2
Sediment Samples classified as ERM Quotient Category 3 or 4
Completion Report

Zone J
Charleston Naval Complex
Charleston, South Carolina

Date: 1/31/2006	CT/Charleston

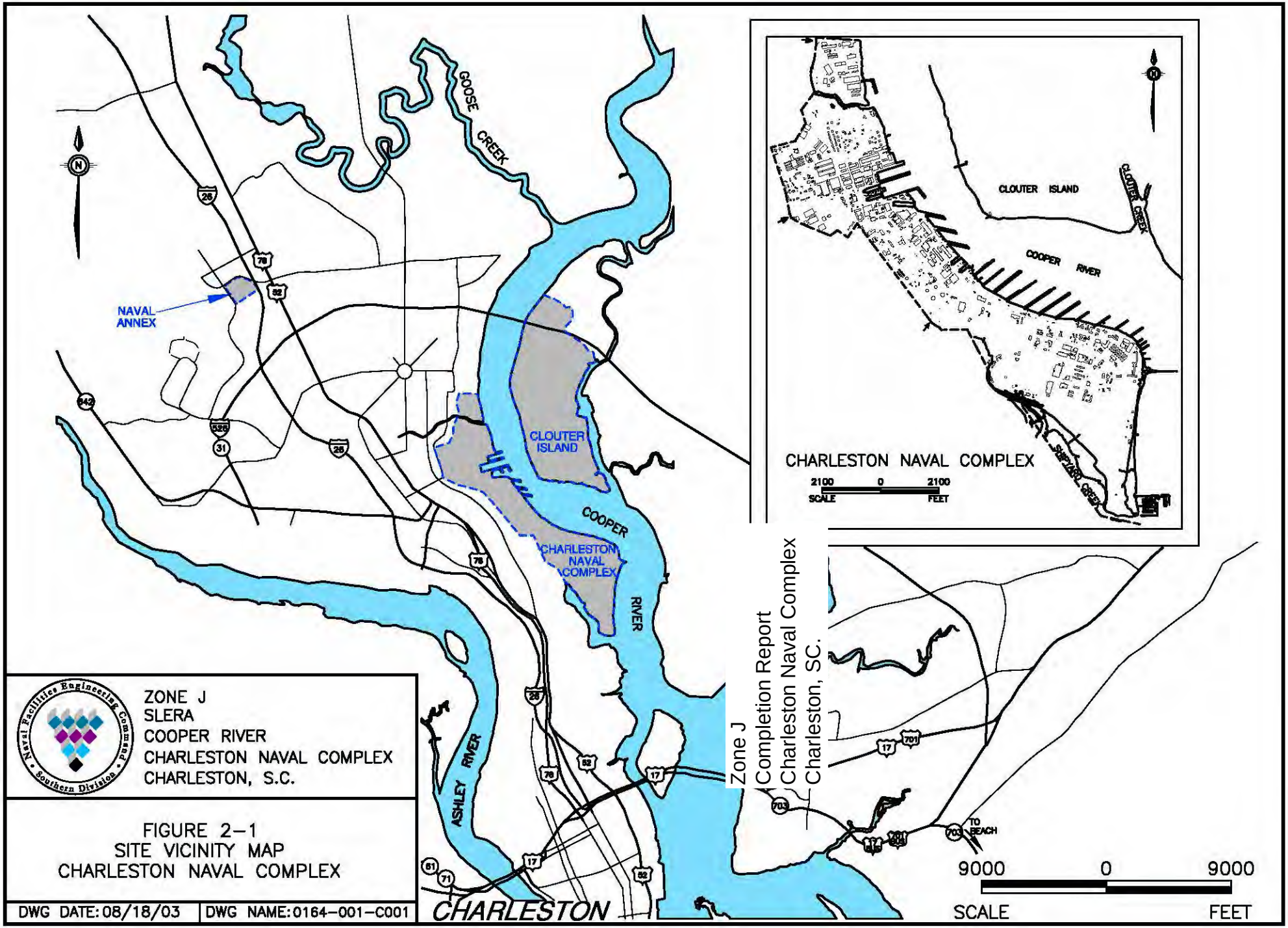
File: K:/GIS/Navy-CNC/088880807_ZoneJ/Figure1-2.mxd

Figure 2-1
Zone J Supplemental Sediment Samples

Charleston Naval Complex
Charleston, SC

Date: 2/2/06 | Drwn by: CT

File: K:/GIS/Navy-CNC/088880807_ZoneJ/figure2-1.mxd


GOOSE CREEK
NAVAL ANNEX
CLOUTER ISLAND
COOPER
CHARLESTON NAVAL COMPLEX
RIVER
ASHLEY RIVER
CHARLESTON
CLOUTER ISLAND
CLOUTER CREEK
COOPER RIVER
SHIPYARD CREEK
CHARLESTON NAVAL COMPLEX
2100 0 2100
SCALE FEET
TO BEACH
9000 0 9000
SCALE FEET
Zone J
Completion Report
Charleston Naval Complex
Charleston, SC.
Naval Facilities Engineering Command
Southern Division
ZONE J
SLERA
COOPER RIVER
CHARLESTON NAVAL COMPLEX
CHARLESTON, S.C.
FIGURE 2-1
SITE VICINITY MAP
CHARLESTON NAVAL COMPLEX
DWG DATE: 08/18/03
DWG NAME: 0164-001-C001

3.0 Analytical Results

Reference Locations

Ten reference locations were selected from outside of the influence of CNC effluent discharge and analyzed for metals, mercury, pesticides, and PCBs. Eighteen inorganic and 12 semi-volatile organic constituents were detected with the majority of the inorganic maximum concentrations (11 constituents) detected in sample BSLM00101. Of the 12 semi-volatile organic constituents detected, three constituents: acenaphthylene, anthracene, and benzo(a)anthracene were detected only once, at location BSLM000901, however; the estimated concentrations did exceed sediment screening values. The maximum concentrations for the remaining semi-volatile organic constituents were detected at location BSLM00901. No pesticide or PCB constituents were detected. Table 3-1 summarizes the analytical results for the reference sediment locations.

Locations BSLM000101 and BSLM000201 were the only samples that had inorganic detections exceeding sediment screening values. Arsenic and silver exceeded the screening values for both BSLM000101 and BSLM000201 and chromium exceeded the screening value for BSLM000101. Comparing semi-volatile detections to screening values, only locations BSLM000801 and BSLM000901 had constituents that exceeded screening values. Benzo(a)pyrene and chrysene detections exceeded sediment screening values in BSLM000801 and acenaphthylene, anthracene, benzo(a)anthracene, and benzo(a)pyrene had detections in BSLM000901 that exceeded screening values.

Primary Locations

Five primary locations were re-sampled based on ERM quotients and analyzed for metals, mercury, pesticides, and PCBs. Twenty inorganic and 14 semi-volatile organic constituents were detected with the majority of maximum inorganic concentrations detected at 556M000502 and the majority of maximum organic concentrations detected at 556M000702. Inorganic concentrations have trended upwards compared to the initial sampling event for the three Copper River locations 054M000102, 556M000502, and 556M000702, with 556M000502 having the most sediment screening value exceedances. However, for the two creek locations, 009M000402 and NOIM000402, the inorganic concentrations trended downwards with only barium and cadmium concentrations in 009M000402 showing an increase compared to the other constituents that have a sediment screening value.

Table 3-1
Reference Location Analytical Results

Chemical Name	Unit	Reference Range	Screening Value	BSLM000101		BSLM000201		BSLM000301		BSLM000401		BSLM000501		BSLM000601		BSLM000701		BSLM000801		BSLM000901		BSLM001001	
Inorganics	mg/kg																						
Aluminum	mg/kg	1600-27000	NSV	27000		19000		7700		1600		7900		4300		8300		14000		12000		5400	
Antimony	mg/kg	NV	12	5.1	U	7.2	U	3.3	U	2.8	U	3.2	U	3.2	U	3.1	U	4.1	U	4.1	U	2.9	U
Arsenic	mg/kg	0.98-15	7.24	**15**		**11**		3.8		0.98	J	5.9		2.4		3.6		**9**		5.2		3.2	
Barium	mg/kg	8.8-30	NSV	30		27		9.7		9.4		11		18		18		25		16		8.8	
Beryllium	mg/kg	0.12-1.5	NSV	1.5		1	J	0.35	J	0.12	J	0.42	J	0.23	J	0.36	J	0.67	J	0.51	J	0.33	J
Cadmium	mg/kg	NV	1	1.3	U	1.8	U	0.83	U	0.69	U	0.8	U	0.79	U	0.76	U	1	U	1	U	0.71	U
Calcium	mg/kg	3000-140000	NSV	3100		16000		19000		3000		40000		6400		4800		140000		19000		15000	
Chromium	mg/kg	4.5-56	52.3	**56**		42		16		4.5		17		10		15		21		23		13	
Cobalt	mg/kg	0.49-8.4	NSV	7.4		8.4		1.8		0.49	J	2		1.2	J	1.9		3.4		3.9		1.3	J
Copper	mg/kg	1.1-16	18.7	7.7		16		5.9		1.1	J	4.3		3.2		5.9		15		13		2.4	J
Iron	mg/kg	1800-33000	NSV	33000		22000		7900		1800		8900		5000		8600		14000		11000		5800	
Lead	mg/kg	2.7-21	30.2	14		15		6.7		2.7		4.9		4.3		8.6		21		9.8		3.4	
Magnesium	mg/kg	530-7100	NSV	7100		6300		2200		530		2800		1600		2100		3900		3700		1900	
Manganese	mg/kg	33-240	NSV	240		180		74		33		97		41		57		160		140		58	
Nickel	mg/kg	1.1-15	15.9	15		12	J	5.2	J	1.1	J	4.8	J	2.4	J	4.6	J	6.9	J	6.9	J	3.2	J
Potassium	mg/kg	240-4200	NSV	4200		2800		970		240		1200		690		1000		1800		1500		830	
Selenium	mg/kg	NV	NSV	6.4	U	9	U	4.1	U	3.5	U	4	U	4	U	3.8	U	5.2	U	5.1	U	3.6	U
Silver	mg/kg	NV	2	**2.6**	U	**3.6**	U	1.7	U	1.4	U	1.6	U	1.6	U	1.5	U	2.1	U	2.1	U	1.4	U
Sodium	mg/kg	2000-14000	NSV	10000		14000		5100		2000		6400		4600		5300		9900		7900		4200	
Thallium	mg/kg	NV	NSV	6.4	U	9	U	4.1	U	3.5	U	4	U	4	U	3.8	U	5.2	U	5.1	U	3.6	U
Vanadium	mg/kg	4.2-61	NSV	61		43		17		4.2		18		11		21		32		25		12	
Zinc	mg/kg	9.7-64	124	53		64		25		9.7		21		18		40		60		43		24	
Mercury	mg/kg	0.0053-0.11	0.13	0.035	J	0.059	J	0.031	J	0.0053	J	0.016	J	0.018	J	0.034		0.11		0.045		0.0078	J
Pesticides																							
4,4'-DDD	µg/Kg		3.3	93	U	120	U	61	U	48	U	56	U	53	U	55	U	70	U	76	U	49	U
4,4'-DDE	µg/Kg		3.3	93	U	120	U	61	U	48	U	56	U	53	U	55	U	70	U	76	U	49	U
4,4'-DDT	µg/Kg		3.3	93	U	120	U	61	U	48	U	56	U	53	U	55	U	70	U	76	U	49	U
Aldrin	µg/Kg		NSV	48	U	64	U	31	U	24	U	29	U	27	U	29	U	36	U	39	U	25	U
alpha-BHC	µg/Kg		NSV	48	U	64	U	31	U	24	U	29	U	27	U	29	U	36	U	39	U	25	U
beta-BHC	µg/Kg		NSV	48	U	64	U	31	U	24	U	29	U	27	U	29	U	36	U	39	U	25	U
Chlordane (technical)	µg/Kg		1.7	480	U	640	U	310	U	240	U	290	U	270	U	290	U	360	U	390	U	250	U
delta-BHC	µg/Kg		NSV	48	U	64	U	31	U	24	U	29	U	27	U	29	U	36	U	39	U	25	U
Dieldrin	µg/Kg		3.3	93	U	120	U	61	U	48	U	56	U	53	U	55	U	70	U	76	U	49	U
Endosulfan I	µg/Kg		NSV	48	U	64	U	31	U	24	U	29	U	27	U	29	U	36	U	39	U	25	U
Endosulfan II	µg/Kg		NSV	93	U	120	U	61	U	48	U	56	U	53	U	55	U	70	U	76	U	49	U
Endosulfan sulfate	µg/Kg		NSV	93	U	120	U	61	U	48	U	56	U	53	U	55	U	70	U	76	U	49	U
Endrin	µg/Kg		3.3	93	U	120	U	61	U	48	U	56	U	53	U	55	U	70	U	76	U	49	U
Endrin aldehyde	µg/Kg		3.3	93	U	120	U	61	U	48	U	56	U	53	U	55	U	70	U	76	U	49	U
Endrin ketone	µg/Kg		3.3	93	U	120	U	61	U	48	U	56	U	53	U	55	U	70	U	76	U	49	U
gamma-BHC (Lindane)	µg/Kg		3.3	48	U	64	U	31	U	24	U	29	U	27	U	29	U	36	U	39	U	25	U
Heptachlor	µg/Kg		NSV	48	U	64	U	31	U	24	U	29	U	27	U	29	U	36	U	39	U	25	U
Heptachlor epoxide	µg/Kg		NSV	48	U	64	U	31	U	24	U	29	U	27	U	29	U	36	U	39	U	25	U
Methoxychlor	µg/Kg		NSV	480	U	640	U	310	U	240	U	290	U	270	U	290	U	360	U	390	U	250	U
PCB-1016	µg/Kg		33	930	U	1200	U	610	U	480	U	560	U	530	U	550	U	700	U	760	U	490	U
PCB-1221	µg/Kg		67	1900	U	2500	U	1200	U	960	U	1100	U	1100	U	1100	U	1400	U	1500	U	990	U
PCB-1232	µg/Kg		33	930	U	1200	U	610	U	480	U	560	U	530	U	550	U	700	U	760	U	490	U
PCB-1242	µg/Kg		33	930	U	1200	U	610	U	480	U	560	U	530	U	550	U	700	U	760	U	490	U
PCB-1248	µg/Kg		33	930	U	1200	U	610	U	480	U	560	U	530	U	550	U	700	U	760	U	490	U
PCB-1254	µg/Kg		33	930	U	1200	U	610	U	480	U	560	U	530	U	550	U	700	U	760	U	490	U
PCB-1260	µg/Kg		33	930	U	1200	U	610	U	480	U	560	U	530	U	550	U	700	U	760	U	490	U
Toxaphene	µg/Kg		NSV	4800	U	6400	U	3100	U	2400	U	2900	U	2700	U	2900	U	3600	U	3900	U	2500	U
Semivolatile Organic Compounds																							
1,2,4-Trichlorobenzene	µg/Kg		NSV	930	U	1200	U	610	U	470	U	560	U	530	U	550	U	700	U	760	U	490	U
1,2-Dichlorobenzene	µg/Kg		NSV	930	U	1200	U	610	U	470	U	560	U	530	U	550	U	700	U	760	U	490	U
1,3-Dichlorobenzene	µg/Kg		NSV	930	U	1200	U	610	U	470	U	560	U	530	U	550	U	700	U	760	U	490	U
1,4-Dichlorobenzene	µg/Kg		NSV	930	U	1200	U	610	U	470	U	560	U	530	U	550	U	700	U	760	U	490	U
2,4,5-Trichlorophenol	µg/Kg		NSV	930	U	1200	U	610	U	470	U	560	U	530	U	550	U	700	U	760	U	490	U
2,4,6-Trichlorophenol	µg/Kg		NSV	930	U	1200	U	610	U	470	U	560	U	530	U	550	U	700	U	760	U	490	U
2,4-Dichlorophenol	µg/Kg		NSV	930	U	1200	U	610	U	470	U	560	U	530	U	550	U	700	U	760	U	490	U
2,4-Dimethylphenol	µg/Kg		NSV	930	U	1200	U	610	U	470	U	560	U	530	U	550	U	700	U	760	U	490	U
2,4-Dinitrophenol	µg/Kg		NSV	4800	U	6400	U	3100	U	2400	U	2900	U	2700	U	2900	U	3600	U	3900	U	2500	U
2,4-Dinitrotoluene	µg/Kg		NSV	930	U	1200	U	610	U	470	U	560	U	530	U	550	U	700	U	760	U	490	U
2,6-Dinitrotoluene	µg/Kg		NSV	930	U	1200	U	610	U	470	U	560	U	530	U	550	U	700	U	760	U	490	U

Table 3-1
Reference Location Analytical Results

Chemical Name	Unit	Reference Range	Screening Value	BSLM000101		BSLM000201		BSLM000301		BSLM000401		BSLM000501		BSLM000601		BSLM000701		BSLM000801		BSLM000901		BSLM001001	
Inorganics	mg/kg																						
2-Chloronaphthalene	µg/Kg		NSV	930	U	1200	U	610	U	470	U	560	U	530	U	550	U	700	U	760	U	490	U
2-Chlorophenol	µg/Kg		NSV	930	U	1200	U	610	U	470	U	560	U	530	U	550	U	700	U	760	U	490	U
2-Methylnaphthalene	µg/Kg		20.23	930	U	1200	U	610	U	470	U	560	U	530	U	550	U	700	U	760	U	490	U
2-Methylphenol	µg/Kg		NSV	930	U	1200	U	610	U	470	U	560	U	530	U	550	U	700	U	760	U	490	U
2-Nitroaniline	µg/Kg		NSV	4800	U	6400	U	3100	U	2400	U	2900	U	2700	U	2900	U	3600	U	3900	U	2500	U
2-Nitrophenol	µg/Kg		NSV	930	U	1200	U	610	U	470	U	560	U	530	U	550	U	700	U	760	U	490	U
3 & 4 Methylphenol	µg/Kg		NSV	930	U	1200	U	610	U	470	U	560	U	530	U	550	U	700	U	760	U	490	U
3,3'-Dichlorobenzidine	µg/Kg		NSV	1900	U	2500	U	1200	U	950	U	1100	U	1100	U	1100	U	1400	U	1500	U	980	U
3-Nitroaniline	µg/Kg		NSV	4800	U	6400	U	3100	U	2400	U	2900	U	2700	U	2900	U	3600	U	3900	U	2500	U
4,6-Dinitro-2-methylphenol	µg/Kg		NSV	4800	U	6400	U	3100	U	2400	U	2900	U	2700	U	2900	U	3600	U	3900	U	2500	U
4-Bromophenyl phenyl ether	µg/Kg		NSV	930	U	1200	U	610	U	470	U	560	U	530	U	550	U	700	U	760	U	490	U
4-Chloro-3-methylphenol	µg/Kg		NSV	930	U	1200	U	610	U	470	U	560	U	530	U	550	U	700	U	760	U	490	U
4-Chloroaniline	µg/Kg		NSV	1900	U	2500	U	1200	U	950	U	1100	U	1100	U	1100	U	1400	U	1500	U	980	U
4-Chlorophenyl phenyl ether	µg/Kg		NSV	930	U	1200	U	610	U	470	U	560	U	530	U	550	U	700	U	760	U	490	U
4-Nitroaniline	µg/Kg		NSV	4800	U	6400	U	3100	U	2400	U	2900	U	2700	U	2900	U	3600	U	3900	U	2500	U
4-Nitrophenol	µg/Kg		NSV	4800	U	6400	U	3100	U	2400	U	2900	U	2700	U	2900	U	3600	U	3900	U	2500	U
Acenaphthene	µg/Kg		6.71	930	U	1200	U	610	U	470	U	560	U	530	U	550	U	700	U	760	U	490	U
Acenaphthylene	µg/Kg	69	5.87	930	U	1200	U	610	U	470	U	560	U	530	U	550	U	700	U	**69**	J	490	U
Anthracene	µg/Kg	88	46.9	930	U	1200	U	610	U	470	U	560	U	530	U	550	U	700	U	**88**	J	490	U
Benzo[a]anthracene	µg/Kg	230	74.8	930	U	1200	U	610	U	470	U	560	U	530	U	550	U	700	U	**230**	J	490	U
Benzo[a]pyrene	µg/Kg	140-380	88.8	930	U	1200	U	610	U	470	U	560	U	530	U	550	U	**140**	J	**380**	J	490	U
Benzo[b]fluoranthene	µg/Kg	170-420	NSV	930	U	1200	U	610	U	470	U	560	U	530	U	550	U	170	J	420	J	490	U
Benzo[g,h,i]perylene	µg/Kg	69-200	NSV	930	U	1200	U	610	U	470	U	560	U	530	U	550	U	69	J	200	J	490	U
Benzo[k]fluoranthene	µg/Kg	140-330	NSV	930	U	1200	U	610	U	470	U	560	U	530	U	550	U	140	J	330	J	490	U
Bis(2-chloroethoxy)methane	µg/Kg		NSV	930	U	1200	U	610	U	470	U	560	U	530	U	550	U	700	U	760	U	490	U
Bis(2-chloroethyl)ether	µg/Kg		NSV	930	U	1200	U	610	U	470	U	560	U	530	U	550	U	700	U	760	U	490	U
Bis(2-ethylhexyl) phthalate	µg/Kg	58-180	182	140	J	170	J	610	U	58	J	560	U	530	U	65	J	700	U	180	J	81	J
bis(chloroisopropyl) ether	µg/Kg		NSV	930	U	1200	U	610	U	470	U	560	U	530	U	550	U	700	U	760	U	490	U
Butyl benzyl phthalate	µg/Kg		NSV	930	U	1200	U	610	U	470	U	560	U	530	U	550	U	700	U	760	U	490	U
Carbazole	µg/Kg		NSV	930	U	1200	U	610	U	470	U	560	U	530	U	550	U	700	U	760	U	490	U
Chrysene	µg/Kg	94-120	108	930	U	94	J	610	U	470	U	560	U	530	U	550	U	**120**	J	360	J	490	U
Dibenz(a,h)anthracene	µg/Kg		6.22	930	U	1200	U	610	U	470	U	560	U	530	U	550	U	700	U	760	U	490	U
Dibenzofuran	µg/Kg		NSV	930	U	1200	U	610	U	470	U	560	U	530	U	550	U	700	U	760	U	490	U
Diethyl phthalate	µg/Kg		NSV	930	U	1200	U	610	U	470	U	560	U	530	U	550	U	700	U	760	U	490	U
Dimethyl phthalate	µg/Kg		NSV	930	U	1200	U	610	U	470	U	560	U	530	U	550	U	700	U	760	U	490	U
Di-n-butyl phthalate	µg/Kg		NSV	930	U	1200	U	610	U	470	U	560	U	530	U	550	U	700	U	760	U	490	U
Di-n-octyl phthalate	µg/Kg		NSV	930	U	1200	U	610	U	470	U	560	U	530	U	550	U	700	U	760	U	490	U
Fluoranthene	µg/Kg	52-380	113	930	U	110	J	610	U	470	U	52	J	530	U	550	U	700	U	**380**	J	490	U
Fluorene	µg/Kg		21.2	930	U	1200	U	610	U	470	U	560	U	530	U	550	U	700	U	760	U	490	U
Hexachlorobenzene	µg/Kg		NSV	930	U	1200	U	610	U	470	U	560	U	530	U	550	U	700	U	760	U	490	U
Hexachlorobutadiene	µg/Kg		NSV	930	U	1200	U	610	U	470	U	560	U	530	U	550	U	700	U	760	U	490	U
Hexachlorocyclopentadiene	µg/Kg		NSV	930	U	1200	U	610	U	470	U	560	U	530	U	550	U	700	U	760	U	490	U
Hexachloroethane	µg/Kg		NSV	930	U	1200	U	610	U	470	U	560	U	530	U	550	U	700	U	760	U	490	U
Indeno[1,2,3-cd]pyrene	µg/Kg	61-190	NSV	930	U	1200	U	610	U	470	U	560	U	530	U	550	U	61	J	190	J	490	U
Isophorone	µg/Kg		NSV	930	U	1200	U	610	U	470	U	560	U	530	U	550	U	700	U	760	U	490	U
Naphthalene	µg/Kg		34.6	930	U	1200	U	610	U	470	U	560	U	530	U	550	U	700	U	760	U	490	U
Nitrobenzene	µg/Kg		NSV	930	U	1200	U	610	U	470	U	560	U	530	U	550	U	700	U	760	U	490	U
N-Nitrosodi-n-propylamine	µg/Kg		NSV	930	U	1200	U	610	U	470	U	560	U	530	U	550	U	700	U	760	U	490	U
N-Nitrosodiphenylamine	µg/Kg		NSV	930	U	1200	U	610	U	470	U	560	U	530	U	550	U	700	U	760	U	490	U
Pentachlorophenol	µg/Kg		NSV	4800	U	6400	U	3100	U	2400	U	2900	U	2700	U	2900	U	3600	U	3900	U	2500	U
Phenanthrene	µg/Kg		86.7	930	U	1200	U	610	U	470	U	560	U	530	U	550	U	700	U	760	U	490	U
Phenol	µg/Kg		NSV	930	U	1200	U	610	U	470	U	560	U	530	U	550	U	700	U	760	U	490	U
Pyrene	µg/Kg	50-510	153	930	U	**170**	J	610	U	470	U	50	J	530	U	550	U	52	J	**510**	J	490	U
Percent Moisture				65		73		46		31		41		38		41		53		57		33	

Notes:
mg/kg = Milligrams per Kilograms
µg/kg = Micrograms per Kilograms
J = Estimated
U = Non Detect
NV = No Value
NSV = No Screening Value

For the semi-volatile constituents overall concentrations have decreased, however, sediment screening value exceedances were still prevalent at all locations. Location 009M000402 actually had several semi-volatile constituents that showed detections during the 2005 event; however, those detections may have been suppressed in the initial event because quantitation limits were high necessitated by a high dilution factor. It should also be noted when comparing constituent concentrations for 009M000402 and 054M000102 to reference values, only bis(2-ethylhexyl)phthalate remained as a constituent that had concentrations exceeding the sediment reference value, however, detections are estimated values (J flagged).

No pesticide or PCB constituents were detected. Table 3-2 summarizes and compares the analytical results from initial sampling and December 2005 events.

Table 3-2
CNC Sediment Location Analytical Results

Chemical Name	Unit	Reference Range	Screening Value	MDL	009M000401	009M000402		054M000101	054M000102		556M000501	556M000502		556M00701	556M000702		NOIM00401	NOIM000402	
Inorganics	mg/kg																		
Sample Date					**Sep-94**	**Dec-05**	Increase (+) Decrease (-)	**Nov-95**	**Dec-05**	Increase (+) Decrease (-)	**Nov-95**	**Dec-05**	Increase (+) Decrease (-)	**Nov-95**	**Dec-05**	Increase (+) Decrease (-)	**Jun-97**	**Dec-05**	Increase (+) Decrease (-)
Aluminum	mg/kg	1600-27000	NSV	12	20600	14000	-	2140	23000	+	2770	**35000**	+	8770	**31000**	+	7830	9500	-
Antimony	mg/kg	NV	12	1.2	**2.7J**	5.3U	-	**1.8J**	4.9U	-	**1.7J**	9.6U	-	1.6U	8.4U	NC	**1.1J**	3.8U	-
Arsenic	mg/kg	0.98-15	7.24	1.7	11.9	7	-	3.7	11	+	5.4	**18**	+	9.1	**19**	+	10.7	5.9	-
Barium	mg/kg	8.8-30	NSV	0.77	29.1	**37**	+	19.5J	**48**	+	27.4	**42**	+	15J	**93**	+	**44.4J**	14	-
Beryllium	mg/kg	0.12-1.5	NSV	0.044	0.94	0.64J	-	0.26J	1	+	0.49J	**1.5J**	+	0.59J	1.4J	+	**1.9**	0.46J	-
Cadmium	mg/kg	NV	1	0.56	**0.64J**	**1.6**	+	**0.3J**	**0.54J**	+	**0.29J**	2.4U	-	0.41U	2.1U	NC	**0.45J**	0.96U	-
Calcium	mg/kg	3000-140000	NSV	6.2	35400	20000	-	8800	11000	+	25300	29000	+	19800	40000	+	51200	2600	-
Chromium	mg/kg	4.5-56	52.3	0.33	**291**	**160**	-	28.4	51	+	36.7	**69**	+	20.9	**60**	+	25.3	20	-
Cobalt	mg/kg	0.49-8.4	NSV	0.44	5.7	3.9	-	2.9J	**10**	+	6.8	**10**	+	4.4J	**9.1**	+	**10.6J**	3.3	-
Copper	mg/kg	1.1-16	18.7	0.44	**141**	**54**	-	**83.1**	**140**	+	**1930**	**44**	-	**26.9**	**1200**	+	**127**	15	-
Iron	mg/kg	1800-33000	NSV	11	26000	15000	-	7170	26000	+	20300	**34000**	+	13300	**33000**	+	19200	11000	-
Lead	mg/kg	2.7-21	30.2	0.54	**107**	**71**	-	**87J**	**79**	-	**220**	**26**	-	13.4	**26**	+	**126**	**23**	-
Magnesium	mg/kg	530-7100	NSV	3.1	**7200**	4900	-	2080	6100	+	1820	**11000**	+	4460	**11000**	+	2400	2400	NC
Manganese	mg/kg	33-240	NSV	0.54	**274**	100	-	47.1	**390**	+	162	**400**	+	230	**650**	+	140	52	-
Nickel	mg/kg	1.1-15	15.9	0.67	**37.3**	**19**	-	**19.7**	**28**	+	**32.6J**	**20**	-	7.3J	**25**	+	**20.5**	5.6J	-
Potassium	mg/kg	240-4200	NSV	3.3	2470	1900	-	592U	2200	+	656J	**5000**	+	2190J	**4400**	+	1050J	1300	+
Selenium	mg/kg	NV	NSV	2.3	**0.56J**	6.7U	-	0.64U	6.1U	NC	0.6	12U	-	2U	11U	NC	0.91U	4.8U	NC
Silver	mg/kg	NV	2	0.25	0.46U	2.7U	NC	0.26U	**0.97J**	+	0.24U	4.8U	NC	0.81U	4.2U	NC	0.98U	1.9U	NC
Sodium	mg/kg	2000-14000	NSV	130	10600	8700	-	1350	9600	+	1060	**29000**	+	8530	**27000**	+	4420J	5600	+
Thallium	mg/kg	NV	NSV	3.3	0.52U	6.7U	NC	0.64U	6.1U	NC	0.6U	12U	NC	2U	11U	NC	1.6U	4.8U	NC
Vanadium	mg/kg	4.2-61	NSV	0.36	52.2	32	-	7.4	49	+	6.3J	**77**	+	25.3J	**71**	+	22.2	21	-
Zinc	mg/kg	9.7-64	124	1.9	**387**	**230**	-	**211J**	**680**	+	**774**	**120**	-	55.4	**600**	+	**718**	**100**	-
Mercury	mg/kg	0.0053-0.11	0.13	0.01	**0.69**	**0.15**	-	**0.52**	**0.23**	-	0.05	0.077J	+	0.09	0.074J	-	**0.16**	**0.14**	
Pesticides																			
4,4'-DDD	µg/Kg		3.3	8.5	**41J**	89U	-	NA	88U		3200U	180U	NC	10U	160U	NC	5.65U	72U	NC
4,4'-DDE	µg/Kg		3.3	8.5	**110**	89U	-	NA	88U		**7600**	180U	-	10U	160U	NC	5.65U	72U	NC
4,4'-DDT	µg/Kg		3.3	7.6	50U	89U	NC	NA	88U		3200U	180U	NC	10U	160U	NC	5.65U	72U	NC
Aldrin	µg/Kg		NSV	3.9	18J	46U	-	NA	45U		1700U	93U	NC	5.2U	83U	NC	2.91U	37U	NC
alpha-BHC	µg/Kg		NSV	15	20U	46U	NC	NA	45U		1700U	93U	NC	5.2U	83U	NC	2.91U	37U	NC
beta-BHC	µg/Kg		NSV	13	20U	46U	NC	NA	45U		1700U	93U	NC	5.2U	83U	NC	2.91U	37U	NC
Chlordane (technical)	µg/Kg		1.7	85	20U	460U	NC	NA	450U		1700U	930U	NC	5.2U	830U	NC	2.91U	370U	NC
delta-BHC	µg/Kg		NSV	6.5	20U	46U	NC	NA	45U		1700U	93U	NC	5.2U	83U	NC	2.91U	37U	NC
Dieldrin	µg/Kg		3.3	9.9	20U	89U	NC	NA	88U		3200U	180U	NC	10U	160U	NC	5.65U	72U	NC
Endosulfan I	µg/Kg		NSV	4.5	20U	46U	NC	NA	45U		1700U	93U	NC	5.2U	83U	NC	2.91U	37U	NC
Endosulfan II	µg/Kg		NSV	7.6	50U	89U	NC	NA	88U		3200U	180U	NC	10U	160U	NC	5.65U	72U	NC
Endosulfan sulfate	µg/Kg		NSV	10	50U	89U	NC	NA	88U		3200U	180U	NC	10U	160U	NC	5.65U	72U	NC
Endrin	µg/Kg		3.3	9	20U	89U	NC	NA	88U		3200U	180U	NC	10U	160U	NC	5.65U	72U	NC
Endrin aldehyde	µg/Kg		3.3	18	50U	89U	NC	NA	88U		3200U	180U	NC	10U	160U	NC	5.65U	72U	NC
Endrin ketone	µg/Kg		3.3	9	50U	89U	NC	NA	88U		3200U	180U	NC	10U	160U	NC	5.65U	72U	NC
gamma-BHC (Lindane)	µg/Kg		3.3	3.9	20UJ	46U	NC	NA	45U		1.7U	93U	NC	5.2U	83U	NC	2.91U	37U	NC
Heptachlor	µg/Kg		NSV	9	20U	46U	NC	NA	45U		1.7U	93U	NC	5.2U	83U	NC	2.91U	37U	NC
Heptachlor epoxide	µg/Kg		NSV	5.9	20U	46U	NC	NA	45U		1.7U	93U	NC	5.2U	83U	NC	2.91U	37U	NC
Methoxychlor	µg/Kg		NSV	13	200U	460U	NC	NA	450U		45	930U	-	52U	830U	NC	29.1U	370U	NC
PCB-1016	µg/Kg		33	190	200U	890U	NC	NA	880U		43U	1800U	NC	130U	1600U	NC	56.5U	720U	NC
PCB-1221	µg/Kg		67	190	200U	1800U	NC	NA	1800U		43U	3700U	NC	130U	3300U	NC	115U	1500U	NC
PCB-1232	µg/Kg		33	170	200U	890U	NC	NA	880U		43U	1800U	NC	130U	1600U	NC	56.5U	720U	NC
PCB-1242	µg/Kg		33	210	**200**	890U	NC	NA	880U		43U	1800U	NC	130U	1600U	NC	56.5U	720U	NC
PCB-1248	µg/Kg		33	230	**3000**	890U	NC	NA	880U		43U	1800U	NC	130U	1600U	NC	56.5U	720U	NC
PCB-1254	µg/Kg		33	150	**690**	890U	NC	NA	880U		87U	1800U	NC	270U	1600U	NC	56.5U	720U	NC
PCB-1260	µg/Kg		33	180	**770**	890U	NC	NA	880U		87U	1800U	NC	270U	1600U	NC	56.5U	720U	NC
Toxaphene	µg/Kg		NSV	340	900U	4600U	NC	NA	4500U		110U	9300U	NC	330U	8300U	NC	291U	3700U	NC
Semivolatile Organic Compounds																			
1,2,4-Trichlorobenzene	µg/Kg		NSV	59	NA	900U		850U	880U	NC	NA	1800U		NA	1600U		570U	720U	NC
1,2-Dichlorobenzene	µg/Kg		NSV	65	18000U	900U	NC	850U	880U	NC	1700U	1800U	NC	2600U	1600U	NC	570U	720U	NC
1,3-Dichlorobenzene	µg/Kg		NSV	73	18000U	900U	NC	850U	880U	NC	1700U	1800U	NC	2600U	1600U	NC	570U	720U	NC
1,4-Dichlorobenzene	µg/Kg		NSV	62	18000U	900U	NC	850U	880U	NC	1700U	1800U	NC	2600U	1600U	NC	570U	720U	NC
2,4,5-Trichlorophenol	µg/Kg		NSV	90	91000U	900U	NC	4100U	880U	NC	8300U	1800U	NC	13000U	1600U	NC	1400U	720U	NC
2,4,6-Trichlorophenol	µg/Kg		NSV	56	18000U	900U	NC	850U	880U	NC	1700U	1800U	NC	2600U	1600U	NC	570U	720U	NC
2,4-Dichlorophenol	µg/Kg		NSV	65	18000U	900U	NC	850U	880U	NC	1700U	1800U	NC	2600U	1600U	NC	570U	720U	NC
2,4-Dimethylphenol	µg/Kg		NSV	99	18000U	900U	NC	850U	880U	NC	1700U	1800U	NC	2600U	1600U	NC	570U	720U	NC
2,4-Dinitrophenol	µg/Kg		NSV	480	91000U	4600U	NC	4100U	4500U	NC	8300U	9300U	NC	13000U	8300U	NC	1400U	3700U	NC
2,4-Dinitrotoluene	µg/Kg		NSV	54	18000U	900U	NC	850U	880U	NC	1700U	1800U	NC	2600U	1600U	NC	570U	720U	NC
2,6-Dinitrotoluene	µg/Kg		NSV	93	18000U	900U	NC	850U	880U	NC	1700U	1800U	NC	2600U	1600U	NC	570U	720U	NC
2-Chloronaphthalene	µg/Kg		NSV	68	18000U	900U	NC	850U	880U	NC	1700U	1800U	NC	2600U	1600U	NC	570U	720U	NC
2-Chlorophenol	µg/Kg		NSV	76	18000U	900U	NC	850U	880U	NC	1700U	1800U	NC	2600U	1600U	NC	570U	720U	NC
2-Methylnaphthalene	µg/Kg		20.23	68	3600U	900U	NC	**220J**	880U	-	1700U	1800U	NC	2600U	**130J**	+	570U	720U	NC

Table 3-2
CNC Sediment Location Analytical Results

Chemical Name	Unit	Reference Range	Screening Value	MDL	009M000401	009M000402		054M000101	054M000102		556M000501	556M000502		556M00701	556M000702		NOIM00401	NOIM000402	
Inorganics	mg/kg																		
2-Methylphenol	µg/Kg		NSV	85	18000U	900U	NC	850U	880U	NC	1700U	1800U	NC	2600U	1600U	NC	570U	720U	NC
2-Nitroaniline	µg/Kg		NSV	65	91000U	4600	NC	4100U	4500U	NC	8300U	9300U	NC	13000U	8300U	NC	1400U	3700U	NC
2-Nitrophenol	µg/Kg		NSV	56	18000U	900U	NC	850U	880U	NC	1700U	1800U	NC	2600U	1600U	NC	570U	720U	NC
3 & 4 Methylphenol	µg/Kg		NSV	82	18000U	900U	NC	850U	880U	NC	1700U	1800U	NC	2600U	1600U	NC	570U	720U	NC
3,3'-Dichlorobenzidine	µg/Kg		NSV	85	36000U	1800U	NC	1700U	1800U	NC	3400U	3600U	NC	5300U	3200U	NC	570U	1400U	NC
3-Nitroaniline	µg/Kg		NSV	93	91000U	4600U	NC	4100U	4500U	NC	8300U	9300U	NC	13000U	8300U	NC	1400U	3700U	NC
4,6-Dinitro-2-methylphenol	µg/Kg		NSV	560	91000U	4600U	NC	4100U	4500U	NC	8300U	9300U	NC	13000U	8300U	NC	1400U	3700U	NC
4-Bromophenyl phenyl ether	µg/Kg		NSV	87	18000U	900U	NC	850U	880U	NC	1700U	1800U	NC	2600U	1600U	NC	570U	720U	NC
4-Chloro-3-methylphenol	µg/Kg		NSV	96	18000U	900U	NC	850U	880U	NC	1700U	1800U	NC	2600U	1600U	NC	570U	720U	NC
4-Chloroaniline	µg/Kg		NSV	73	18000U	1800U	NC	850U	1800U	NC	1700U	3600U	NC	2600U	3200U	NC	570U	1400U	NC
4-Chlorophenyl phenyl ether	µg/Kg		NSV	54	18000U	900U	NC	850U	880U	NC	1700U	1800U	NC	2600U	1600U	NC	570U	720U	NC
4-Nitroaniline	µg/Kg		NSV	48	91000U	4600U	NC	NA	4500U		8300U	9300U	NC	13000U	8300U	NC	1400U	3700U	NC
4-Nitrophenol	µg/Kg		NSV	590	91000U	4600U	NC	NA	4500U		8300U	9300U	NC	13000U	8300U	NC	1400U	3700U	NC
Acenaphthene	µg/Kg		6.71	54	3600U	900U	NC	**640J**	880U	-	**260J**	1800U	-	**690J**	**190J**	-	570U	720U	NC
Acenaphthylene	µg/Kg	69	5.87	48	3600U	900U	NC	850U	880U	NC	1700U	1800U	NC	2600U	1600U	NC	570U	720U	NC
Anthracene	µg/Kg	88	46.9	65	3600U	900U	NC	**1400**	880U	-	**1200J**	**280J**	-	**1200J**	**680J**	-	**610**	**150J**	-
Benzo[a]anthracene	µg/Kg	230	74.8	87	18000U	**100J**	+	**2600**	880U	-	**4300**	**520J**	-	**1800J**	**870J**	-	**1000**	**290J**	-
Benzo[a]pyrene	µg/Kg	140-380	88.8	54	18000U	**120J**	+	**2200**	78J	-	**3600**	**770J**	-	**1500J**	**670J**	-	**990**	**320J**	-
Benzo[b]fluoranthene	µg/Kg	170-420	NSV	73	18000U	230J	+	850U	99J	-	4300	**880J**	-	2600U	**670J**	-	**1200**	400J	-
Benzo[g,h,i]perylene	µg/Kg	69-200	NSV	65	18000U	100J	+	**1200**	880U	-	1800	**300J**	-	**710J**	**290J**	-	**210J**	**240J**	+
Benzo[k]fluoranthene	µg/Kg	140-330	NSV	100	18000UJ	110J	+	**3600**	880U	-	3200	**790J**	-	**2200J**	**700J**	-	**760**	**330J**	-
Bis(2-chloroethoxy)methane	µg/Kg		NSV	68	18000U	900U	NC	850U	880U	NC	1700U	1800U		2600U	1600U	NC	570U	720U	NC
Bis(2-chloroethyl)ether	µg/Kg		NSV	79	18000U	900U	NC	850U	880U	NC	1700U	1800U	NC	2600U	1600U	NC	570U	720U	NC
Bis(2-ethylhexyl) phthalate	µg/Kg	58-180	182	110	18000U	**230J**	+	850U	**230J**	+	1700U	**510J**	+	2600U	**780J**	+	**570U**	**460J**	-
bis(chloroisopropyl) ether	µg/Kg		NSV	99	NA	900U	NC	NA	880U		NA	1800U		NA	1600U		NA	720U	
Butyl benzyl phthalate	µg/Kg		NSV	76	18000U	900U	NC	850U	880U	NC	1700	1800U	-	2600U	1600U	NC	570U	720U	NC
Carbazole	µg/Kg		NSV	79	NA	900U	NC	NA	880U		NA	1800U		NA	1600U		570U	720U	NC
Chrysene	µg/Kg	94-360	108	71	18000U	**150J**	+	**2900**	100J	-	**5600**	**1000J**	-	**1900J**	**1100J**	-	**1500**	**380J**	-
Dibenz(a,h)anthracene	µg/Kg		6.22	68	18000U	900U	NC	**720J**	880U	-	**820J**	1800U	-	**360J**	1600U	-	**150J**	**66J**	-
Dibenzofuran	µg/Kg		NSV	54	18000U	900U	NC	590J	880U	-	1700U	1800U	NC	2600U	1600U	NC	570U	720U	NC
Diethyl phthalate	µg/Kg		NSV	62	18000U	900U	NC	850U	880U	NC	1700U	1800U	NC	2600U	1600U	NC	570U	720U	NC
Dimethyl phthalate	µg/Kg		NSV	54	18000U	900U	NC	850U	880U	NC	1700U	1800U	NC	2600U	1600U	NC	570U	720U	NC
Di-n-butyl phthalate	µg/Kg		NSV	79	18000U	900U	NC	850U	880U	NC	1700U	1800U	NC	2600U	1600U	NC	570U	720U	NC
Di-n-octyl phthalate	µg/Kg		NSV	87	18000U	900U	NC	850U	880U	NC	1700U	1800U	NC	290J	1600U	NC	570U	720U	NC
Fluoranthene	µg/Kg	52-380	113	73	**9500J**	**230J**	-	**6700**	**150J**	-	**14000**	**640J**	-	**4600**	**2000**	-	**1500**	**650J**	-
Fluorene	µg/Kg		21.2	62	3600U	900U	NC	**760J**	880U	-	1700U	1800U	NC	**520J**	1600U	-	570U	720U	NC
Hexachlorobenzene	µg/Kg		NSV	73	18000U	900U	NC	850U	880U	NC	1700U	1800U	NC	2600U	1600U	NC	570U	720U	NC
Hexachlorobutadiene	µg/Kg		NSV	56	18000U	900U	NC	850U	880U	NC	1700U	1800U	NC	2600U	1600U	NC	570U	720U	NC
Hexachlorocyclopentadiene	µg/Kg		NSV	230	18000U	900U	NC	850U	880U	NC	1700U	1800U	NC	2600U	1600U	NC	570U	720U	NC
Hexachloroethane	µg/Kg		NSV	56	18000U	900U	NC	850U	880U	NC	1700U	1800U	NC	2600U	1600U	NC	570U	720U	NC
Indeno[1,2,3-cd]pyrene	µg/Kg	61-190	NSV	73	18000U	86J	+	**1100**	880U	-	**1800**	**320J**	-	**690J**	**270J**	-	**270J**	**230J**	-
Isophorone	µg/Kg		NSV	62	18000U	900U	NC	850U	880U	NC	1700U	1800U	NC	2600U	1600U	NC	570U	720U	NC
Naphthalene	µg/Kg		34.6	54	18000U	900U	NC	**590J**	880U	-	1700U	1800U	NC	2600U	1600U	NC	570U	720U	NC
Nitrobenzene	µg/Kg		NSV	99	18000U	900U	NC	850U	880U	NC	1700U	1800U	NC	2600U	1600U	NC	570U	720U	NC
N-Nitrosodi-n-propylamine	µg/Kg		NSV	79	18000U	900U	NC	850U	880U	NC	1700U	1800U	NC	2600U	1600U	NC	570U	720U	NC
N-Nitrosodiphenylamine	µg/Kg		NSV	65	18000U	900U	NC	850U	880U	NC	1700U	1800U	NC	2600U	1600U	NC	570U	720U	NC
Pentachlorophenol	µg/Kg		NSV	230	18000U	4600U	NC	4100	4500U	-	8300	9300U	-	13000U	8300U	NC	1400U	3700U	NC
Phenanthrene	µg/Kg		86.7	82	18000U	900U	NC	6900	880U	-	**5700**	1800U	-	**2400J**	**370J**	-	83J	**110J**	+
Phenol	µg/Kg		NSV	85	18000U	900U	NC	850U	880U	NC	1700U	1800U	NC	2600U	1600U	NC	570U	720U	NC
Pyrene	µg/Kg	50-510	153	56	**6400J**	**230J**	-	**5600**	**200J**	-	**10000**	**1300J**	-	**4400**	**1400J**	-	**950**	**540J**	-
Percent Moisture						63			63			82			80			54	

Notes:

mg/kg = Milligrams per Kilograms
µg/kg = Micrograms per Kilograms
J = Estimated
U = Non Detect
NV = No Value
NSV = No Screening Value

4.0 Conclusions

Based on data validation review, data quality objectives have been met and no further qualification of the data is necessary.

Inorganic concentrations for the three Cooper River locations have increased since the initial sampling event in December 1995 with inorganic concentrations for Shipyard and Noisette Creek locations decreasing. Semi-volatile concentrations show an overall downward trend for all five locations; however, a majority of the detections still exceed a sediment screening value.

Appendix A
Analytical Hard Copy Data

SEVERN TRENT STL®

ANALYTICAL REPORT

Job Number: 680-11658-1

SDG Number: SA0C02

Job Description: ZONE J - CNC

For:

Spectra Tech
132 Jefferson Ct.
Oak Ridge, TN 37830

Attention: Mr. Robb Unger

Linda A. Wolfe

Linda Wolfe
Project Manager I
lwolfe@stl-inc.com
01/13/2006

cc: Mr. Charlie Vernoy

8081/8082 -Non-target matrix interference was present in all samples. The samples were subjected to a florisil cartridge clean-up as well as multiple copper clean-ups. The samples were initially analyzed undiluted directly following continuing calibration standards that passed all criteria. The undiluted run of the samples caused the instrument calibration standards analyzed after the samples to fail approximately 30 % low for all analytes. Additionally, the analysis of the undiluted samples resulted in approximately 80 % -4,4-DDT breakdown. All samples were re-analyzed at a dilution factor of 10. The continuing calibration standards after the diluted samples passed method criteria and data were reported from this run.

SEVERN TRENT STL®

EXECUTIVE SUMMARY - Detections

Client: Spectra Tech

Job Number: 680-11658-1
Sdg Number: SA0C02

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
680-11658-1	**BSLM000101**					
Bis(2-ethylhexyl) phthalate		140	J	930	ug/Kg	8270C
Aluminum		27000		51	mg/Kg	6010B
Arsenic		15		2.6	mg/Kg	6010B
Barium		30		2.6	mg/Kg	6010B
Beryllium		1.5		1.0	mg/Kg	6010B
Calcium		3100		130	mg/Kg	6010B
Cobalt		7.4		2.6	mg/Kg	6010B
Chromium		56	B	2.6	mg/Kg	6010B
Copper		7.7		5.1	mg/Kg	6010B
Iron		33000		13	mg/Kg	6010B
Potassium		4200	B	260	mg/Kg	6010B
Magnesium		7100		130	mg/Kg	6010B
Manganese		240		2.6	mg/Kg	6010B
Sodium		10000	B	260	mg/Kg	6010B
Nickel		15		10	mg/Kg	6010B
Lead		14		1.3	mg/Kg	6010B
Vanadium		61		2.6	mg/Kg	6010B
Zinc		53		5.1	mg/Kg	6010B
Mercury		0.035	J	0.052	mg/Kg	7471A
Percent Moisture		65		1.0	%	160.3
Percent Solids		35		1.0	%	160.3

SEVERN TRENT STL®

EXECUTIVE SUMMARY - Detections

Client: Spectra Tech

Job Number: 680-11658-1
Sdg Number: SA0C02

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
680-11658-2	**BSLM000201**					
Fluoranthene		110	J	1200	ug/Kg	8270C
Pyrene		170	J	1200	ug/Kg	8270C
Bis(2-ethylhexyl) phthalate		170	J	1200	ug/Kg	8270C
Chrysene		94	J	1200	ug/Kg	8270C
Aluminum		19000		72	mg/Kg	6010B
Arsenic		11		3.6	mg/Kg	6010B
Barium		27		3.6	mg/Kg	6010B
Beryllium		1.0	J	1.4	mg/Kg	6010B
Calcium		16000		180	mg/Kg	6010B
Cobalt		8.4		3.6	mg/Kg	6010B
Chromium		42	B	3.6	mg/Kg	6010B
Copper		16		7.2	mg/Kg	6010B
Iron		22000		18	mg/Kg	6010B
Potassium		2800	B	360	mg/Kg	6010B
Magnesium		6300		180	mg/Kg	6010B
Manganese		180		3.6	mg/Kg	6010B
Sodium		14000	B	360	mg/Kg	6010B
Nickel		12	J	14	mg/Kg	6010B
Lead		15		1.8	mg/Kg	6010B
Vanadium		43		3.6	mg/Kg	6010B
Zinc		64		7.2	mg/Kg	6010B
Mercury		0.059	J	0.074	mg/Kg	7471A
Percent Moisture		73		1.0	%	160.3
Percent Solids		27		1.0	%	160.3

SEVERN TRENT STL®

EXECUTIVE SUMMARY - Detections

Client: Spectra Tech

Job Number: 680-11658-1
Sdg Number: SA0C02

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
680-11658-3	**BSLM000901**					
Acenaphthylene		69	J	760	ug/Kg	8270C
Anthracene		88	J	760	ug/Kg	8270C
Fluoranthene		380	J	760	ug/Kg	8270C
Pyrene		510	J	760	ug/Kg	8270C
Benzo[a]anthracene		230	J	760	ug/Kg	8270C
Bis(2-ethylhexyl) phthalate		180	J	760	ug/Kg	8270C
Chrysene		360	J	760	ug/Kg	8270C
Benzo[b]fluoranthene		420	J	760	ug/Kg	8270C
Benzo[k]fluoranthene		330	J	760	ug/Kg	8270C
Benzo[a]pyrene		380	J	760	ug/Kg	8270C
Indeno[1,2,3-cd]pyrene		190	J	760	ug/Kg	8270C
Benzo[g,h,i]perylene		200	J	760	ug/Kg	8270C
Aluminum		12000		41	mg/Kg	6010B
Arsenic		5.2		2.1	mg/Kg	6010B
Barium		16		2.1	mg/Kg	6010B
Beryllium		0.51	J	0.82	mg/Kg	6010B
Calcium		19000		100	mg/Kg	6010B
Cobalt		3.9		2.1	mg/Kg	6010B
Chromium		23	B	2.1	mg/Kg	6010B
Copper		13		4.1	mg/Kg	6010B
Iron		11000		10	mg/Kg	6010B
Potassium		1500	B	210	mg/Kg	6010B
Magnesium		3700		100	mg/Kg	6010B
Manganese		140		2.1	mg/Kg	6010B
Sodium		7900	B	210	mg/Kg	6010B
Nickel		6.9	J	8.2	mg/Kg	6010B
Lead		9.8		1.0	mg/Kg	6010B
Vanadium		25		2.1	mg/Kg	6010B
Zinc		43		4.1	mg/Kg	6010B
Mercury		0.045		0.043	mg/Kg	7471A
Percent Moisture		57		1.0	%	160.3
Percent Solids		44		1.0	%	160.3

SEVERN TRENT STL®

EXECUTIVE SUMMARY - Detections

Client: Spectra Tech

Job Number: 680-11658-1
Sdg Number: SA0C02

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
680-11658-4	**054M000102**					
Fluoranthene		150	J	880	ug/Kg	8270C
Pyrene		200	J	880	ug/Kg	8270C
Bis(2-ethylhexyl) phthalate		230	J	880	ug/Kg	8270C
Chrysene		100	J	880	ug/Kg	8270C
Benzo[b]fluoranthene		99	J	880	ug/Kg	8270C
Benzo[a]pyrene		78	J	880	ug/Kg	8270C
Silver		0.97	J	2.4	mg/Kg	6010B
Aluminum		23000		49	mg/Kg	6010B
Arsenic		11		2.4	mg/Kg	6010B
Barium		48		2.4	mg/Kg	6010B
Beryllium		1.0		0.97	mg/Kg	6010B
Calcium		11000		120	mg/Kg	6010B
Cadmium		0.54	J	1.2	mg/Kg	6010B
Cobalt		10		2.4	mg/Kg	6010B
Chromium		51	B	2.4	mg/Kg	6010B
Copper		140		4.9	mg/Kg	6010B
Iron		26000		12	mg/Kg	6010B
Potassium		2200	B	240	mg/Kg	6010B
Magnesium		6100		120	mg/Kg	6010B
Manganese		390		2.4	mg/Kg	6010B
Sodium		9600	B	240	mg/Kg	6010B
Nickel		28		9.7	mg/Kg	6010B
Lead		79		1.2	mg/Kg	6010B
Vanadium		49		2.4	mg/Kg	6010B
Zinc		680		4.9	mg/Kg	6010B
Mercury		0.23		0.052	mg/Kg	7471A
Percent Moisture		63		1.0	%	160.3
Percent Solids		37		1.0	%	160.3

SEVERN TRENT STL®

EXECUTIVE SUMMARY - Detections

Client: Spectra Tech

Job Number: 680-11658-1
Sdg Number: SA0C02

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
680-11658-5	**556M000702**					
2-Methylnaphthalene		130	J	1600	ug/Kg	8270C
Acenaphthene		190	J	1600	ug/Kg	8270C
Phenanthrene		370	J	1600	ug/Kg	8270C
Anthracene		680	J	1600	ug/Kg	8270C
Fluoranthene		2000		1600	ug/Kg	8270C
Pyrene		1400	J	1600	ug/Kg	8270C
Benzo[a]anthracene		870	J	1600	ug/Kg	8270C
Bis(2-ethylhexyl) phthalate		780	J	1600	ug/Kg	8270C
Chrysene		1100	J	1600	ug/Kg	8270C
Benzo[b]fluoranthene		670	J	1600	ug/Kg	8270C
Benzo[k]fluoranthene		700	J	1600	ug/Kg	8270C
Benzo[a]pyrene		670	J	1600	ug/Kg	8270C
Indeno[1,2,3-cd]pyrene		270	J	1600	ug/Kg	8270C
Benzo[g,h,i]perylene		290	J	1600	ug/Kg	8270C
Aluminum		31000		84	mg/Kg	6010B
Arsenic		19		4.2	mg/Kg	6010B
Barium		93		4.2	mg/Kg	6010B
Beryllium		1.4	J	1.7	mg/Kg	6010B
Calcium		40000		210	mg/Kg	6010B
Cobalt		9.1		4.2	mg/Kg	6010B
Chromium		60	B	4.2	mg/Kg	6010B
Copper		1200		8.4	mg/Kg	6010B
Iron		33000		21	mg/Kg	6010B
Potassium		4400	B	420	mg/Kg	6010B
Magnesium		11000		210	mg/Kg	6010B
Manganese		650		4.2	mg/Kg	6010B
Sodium		27000	B	420	mg/Kg	6010B
Nickel		25		17	mg/Kg	6010B
Lead		26		2.1	mg/Kg	6010B
Vanadium		71		4.2	mg/Kg	6010B
Zinc		600		8.4	mg/Kg	6010B
Mercury		0.074	J	0.089	mg/Kg	7471A
Percent Moisture		80		1.0	%	160.3
Percent Solids		21		1.0	%	160.3

SEVERN TRENT STL®

EXECUTIVE SUMMARY - Detections

Client: Spectra Tech

Job Number: 680-11658-1
Sdg Number: SA0C02

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
680-11658-6	**556M000502**					
Anthracene		280	J	1800	ug/Kg	8270C
Fluoranthene		640	J	1800	ug/Kg	8270C
Pyrene		1300	J	1800	ug/Kg	8270C
Benzo[a]anthracene		520	J	1800	ug/Kg	8270C
Bis(2-ethylhexyl) phthalate		510	J	1800	ug/Kg	8270C
Chrysene		1000	J	1800	ug/Kg	8270C
Benzo[b]fluoranthene		880	J	1800	ug/Kg	8270C
Benzo[k]fluoranthene		790	J	1800	ug/Kg	8270C
Benzo[a]pyrene		770	J	1800	ug/Kg	8270C
Indeno[1,2,3-cd]pyrene		320	J	1800	ug/Kg	8270C
Benzo[g,h,i]perylene		300	J	1800	ug/Kg	8270C
Aluminum		35000		96	mg/Kg	6010B
Arsenic		18		4.8	mg/Kg	6010B
Barium		42		4.8	mg/Kg	6010B
Beryllium		1.5	J	1.9	mg/Kg	6010B
Calcium		29000		240	mg/Kg	6010B
Cobalt		10		4.8	mg/Kg	6010B
Chromium		69	B	4.8	mg/Kg	6010B
Copper		44		9.6	mg/Kg	6010B
Iron		34000		24	mg/Kg	6010B
Potassium		5000	B	480	mg/Kg	6010B
Magnesium		11000		240	mg/Kg	6010B
Manganese		400		4.8	mg/Kg	6010B
Sodium		29000	B	480	mg/Kg	6010B
Nickel		20		19	mg/Kg	6010B
Lead		26		2.4	mg/Kg	6010B
Vanadium		77		4.8	mg/Kg	6010B
Zinc		120		9.6	mg/Kg	6010B
Mercury		0.077	J	0.10	mg/Kg	7471A
Percent Moisture		82		1.0	%	160.3
Percent Solids		18		1.0	%	160.3

SEVERN TRENT STL®

EXECUTIVE SUMMARY - Detections

Client: Spectra Tech

Job Number: 680-11658-1
Sdg Number: SA0C02

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
680-11658-7	**BSLM000401**					
Bis(2-ethylhexyl) phthalate		58	J	470	ug/Kg	8270C
Aluminum		1600		28	mg/Kg	6010B
Arsenic		0.98	J	1.4	mg/Kg	6010B
Barium		9.4		1.4	mg/Kg	6010B
Beryllium		0.12	J	0.55	mg/Kg	6010B
Calcium		3000		69	mg/Kg	6010B
Cobalt		0.49	J	1.4	mg/Kg	6010B
Chromium		4.5	B	1.4	mg/Kg	6010B
Copper		1.1	J	2.8	mg/Kg	6010B
Iron		1800		6.9	mg/Kg	6010B
Potassium		240	B	140	mg/Kg	6010B
Magnesium		530		69	mg/Kg	6010B
Manganese		33		1.4	mg/Kg	6010B
Sodium		2000	B	140	mg/Kg	6010B
Nickel		1.1	J	5.5	mg/Kg	6010B
Lead		2.7		0.69	mg/Kg	6010B
Vanadium		4.2		1.4	mg/Kg	6010B
Zinc		9.7		2.8	mg/Kg	6010B
Mercury		0.0053	J	0.025	mg/Kg	7471A
Percent Moisture		31		1.0	%	160.3
Percent Solids		69		1.0	%	160.3
680-11658-8	**BSLM000301**					
Aluminum		7700		33	mg/Kg	6010B
Arsenic		3.8		1.7	mg/Kg	6010B
Barium		9.7		1.7	mg/Kg	6010B
Beryllium		0.35	J	0.66	mg/Kg	6010B
Calcium		19000		83	mg/Kg	6010B
Cobalt		1.8		1.7	mg/Kg	6010B
Chromium		16	B	1.7	mg/Kg	6010B
Copper		5.9		3.3	mg/Kg	6010B
Iron		7900		8.3	mg/Kg	6010B
Potassium		970	B	170	mg/Kg	6010B
Magnesium		2200		83	mg/Kg	6010B
Manganese		74		1.7	mg/Kg	6010B
Sodium		5100	B	170	mg/Kg	6010B
Nickel		5.2	J	6.6	mg/Kg	6010B
Lead		6.7		0.83	mg/Kg	6010B
Vanadium		17		1.7	mg/Kg	6010B
Zinc		25		3.3	mg/Kg	6010B
Mercury		0.031	J	0.033	mg/Kg	7471A
Percent Moisture		46		1.0	%	160.3
Percent Solids		54		1.0	%	160.3

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EXECUTIVE SUMMARY - Detections

Client: Spectra Tech

Job Number: 680-11658-1
Sdg Number: SA0C02

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
680-11658-9	**BSLM001001**					
Bis(2-ethylhexyl) phthalate		81	J	490	ug/Kg	8270C
Aluminum		5400		29	mg/Kg	6010B
Arsenic		3.2		1.4	mg/Kg	6010B
Barium		8.8		1.4	mg/Kg	6010B
Beryllium		0.33	J	0.57	mg/Kg	6010B
Calcium		15000		71	mg/Kg	6010B
Cobalt		1.3	J	1.4	mg/Kg	6010B
Chromium		13	B	1.4	mg/Kg	6010B
Copper		2.4	J	2.9	mg/Kg	6010B
Iron		5800		7.1	mg/Kg	6010B
Potassium		830	B	140	mg/Kg	6010B
Magnesium		1900		71	mg/Kg	6010B
Manganese		58		1.4	mg/Kg	6010B
Sodium		4200	B	140	mg/Kg	6010B
Nickel		3.2	J	5.7	mg/Kg	6010B
Lead		3.4		0.71	mg/Kg	6010B
Vanadium		12		1.4	mg/Kg	6010B
Zinc		24		2.9	mg/Kg	6010B
Mercury		0.0078	J	0.025	mg/Kg	7471A
Percent Moisture		33		1.0	%	160.3
Percent Solids		67		1.0	%	160.3

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EXECUTIVE SUMMARY - Detections

Client: Spectra Tech

Job Number: 680-11658-1
Sdg Number: SA0C02

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
680-11658-10	**BSLM000801**					
Pyrene		52	J	700	ug/Kg	8270C
Chrysene		120	J	700	ug/Kg	8270C
Benzo[b]fluoranthene		170	J	700	ug/Kg	8270C
Benzo[k]fluoranthene		140	J	700	ug/Kg	8270C
Benzo[a]pyrene		140	J	700	ug/Kg	8270C
Indeno[1,2,3-cd]pyrene		61	J	700	ug/Kg	8270C
Benzo[g,h,i]perylene		69	J	700	ug/Kg	8270C
Aluminum		14000		41	mg/Kg	6010B
Arsenic		9.0		2.1	mg/Kg	6010B
Barium		25		2.1	mg/Kg	6010B
Beryllium		0.67	J	0.83	mg/Kg	6010B
Calcium		140000		100	mg/Kg	6010B
Cobalt		3.4		2.1	mg/Kg	6010B
Chromium		21	B	2.1	mg/Kg	6010B
Copper		15		4.1	mg/Kg	6010B
Iron		14000		10	mg/Kg	6010B
Potassium		1800	B	210	mg/Kg	6010B
Magnesium		3900		100	mg/Kg	6010B
Manganese		160		2.1	mg/Kg	6010B
Sodium		9900	B	210	mg/Kg	6010B
Nickel		6.9	J	8.3	mg/Kg	6010B
Lead		21		1.0	mg/Kg	6010B
Vanadium		32		2.1	mg/Kg	6010B
Zinc		60		4.1	mg/Kg	6010B
Mercury		0.11		0.037	mg/Kg	7471A
Percent Moisture		53		1.0	%	160.3
Percent Solids		47		1.0	%	160.3

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EXECUTIVE SUMMARY - Detections

Client: Spectra Tech

Job Number: 680-11658-1
Sdg Number: SA0C02

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
680-11658-11	**BSLM000501**					
Fluoranthene		52	J	560	ug/Kg	8270C
Pyrene		50	J	560	ug/Kg	8270C
Aluminum		7900		32	mg/Kg	6010B
Arsenic		5.9		1.6	mg/Kg	6010B
Barium		11		1.6	mg/Kg	6010B
Beryllium		0.42	J	0.64	mg/Kg	6010B
Calcium		40000		80	mg/Kg	6010B
Cobalt		2.0		1.6	mg/Kg	6010B
Chromium		17	B	1.6	mg/Kg	6010B
Copper		4.3		3.2	mg/Kg	6010B
Iron		8900		8.0	mg/Kg	6010B
Potassium		1200	B	160	mg/Kg	6010B
Magnesium		2800		80	mg/Kg	6010B
Manganese		97		1.6	mg/Kg	6010B
Sodium		6400	B	160	mg/Kg	6010B
Nickel		4.8	J	6.4	mg/Kg	6010B
Lead		4.9		0.80	mg/Kg	6010B
Vanadium		18		1.6	mg/Kg	6010B
Zinc		21		3.2	mg/Kg	6010B
Mercury		0.016	J	0.031	mg/Kg	7471A
Percent Moisture		41		1.0	%	160.3
Percent Solids		59		1.0	%	160.3
680-11658-12	**BSLM000701**					
Bis(2-ethylhexyl) phthalate		65	J	550	ug/Kg	8270C
Aluminum		8300		31	mg/Kg	6010B
Arsenic		3.6		1.5	mg/Kg	6010B
Barium		18		1.5	mg/Kg	6010B
Beryllium		0.36	J	0.61	mg/Kg	6010B
Calcium		4800		76	mg/Kg	6010B
Cobalt		1.9		1.5	mg/Kg	6010B
Chromium		15	B	1.5	mg/Kg	6010B
Copper		5.9		3.1	mg/Kg	6010B
Iron		8600		7.6	mg/Kg	6010B
Potassium		1000	B	150	mg/Kg	6010B
Magnesium		2100		76	mg/Kg	6010B
Manganese		57		1.5	mg/Kg	6010B
Sodium		5300	B	150	mg/Kg	6010B
Nickel		4.6	J	6.1	mg/Kg	6010B
Lead		8.6		0.76	mg/Kg	6010B
Vanadium		21		1.5	mg/Kg	6010B
Zinc		40		3.1	mg/Kg	6010B
Mercury		0.034		0.032	mg/Kg	7471A
Percent Moisture		41		1.0	%	160.3
Percent Solids		60		1.0	%	160.3

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EXECUTIVE SUMMARY - Detections

Client: Spectra Tech

Job Number: 680-11658-1
Sdg Number: SA0C02

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
680-11658-13	**BSLM000601**					
Aluminum		4300		32	mg/Kg	6010B
Arsenic		2.4		1.6	mg/Kg	6010B
Barium		18		1.6	mg/Kg	6010B
Beryllium		0.23	J	0.63	mg/Kg	6010B
Calcium		6400		79	mg/Kg	6010B
Cobalt		1.2	J	1.6	mg/Kg	6010B
Chromium		10	B	1.6	mg/Kg	6010B
Copper		3.2		3.2	mg/Kg	6010B
Iron		5000		7.9	mg/Kg	6010B
Potassium		690	B	160	mg/Kg	6010B
Magnesium		1600		79	mg/Kg	6010B
Manganese		41		1.6	mg/Kg	6010B
Sodium		4600	B	160	mg/Kg	6010B
Nickel		2.4	J	6.3	mg/Kg	6010B
Lead		4.3		0.79	mg/Kg	6010B
Vanadium		11		1.6	mg/Kg	6010B
Zinc		18		3.2	mg/Kg	6010B
Mercury		0.018	J	0.028	mg/Kg	7471A
Percent Moisture		38		1.0	%	160.3
Percent Solids		62		1.0	%	160.3

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EXECUTIVE SUMMARY - Detections

Client: Spectra Tech

Job Number: 680-11658-1
Sdg Number: SA0C02

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
680-11658-14	**NOIM000402**					
Phenanthrene		110	J	720	ug/Kg	8270C
Anthracene		150	J	720	ug/Kg	8270C
Fluoranthene		650	J	720	ug/Kg	8270C
Pyrene		540	J	720	ug/Kg	8270C
Benzo[a]anthracene		290	J	720	ug/Kg	8270C
Bis(2-ethylhexyl) phthalate		460	J	720	ug/Kg	8270C
Chrysene		380	J	720	ug/Kg	8270C
Benzo[b]fluoranthene		400	J	720	ug/Kg	8270C
Benzo[k]fluoranthene		330	J	720	ug/Kg	8270C
Benzo[a]pyrene		320	J	720	ug/Kg	8270C
Indeno[1,2,3-cd]pyrene		230	J	720	ug/Kg	8270C
Dibenz(a,h)anthracene		66	J	720	ug/Kg	8270C
Benzo[g,h,i]perylene		240	J	720	ug/Kg	8270C
Aluminum		9500		38	mg/Kg	6010B
Arsenic		5.9		1.9	mg/Kg	6010B
Barium		14		1.9	mg/Kg	6010B
Beryllium		0.46	J	0.77	mg/Kg	6010B
Calcium		2600		96	mg/Kg	6010B
Cobalt		3.3		1.9	mg/Kg	6010B
Chromium		20	B	1.9	mg/Kg	6010B
Copper		15		3.8	mg/Kg	6010B
Iron		11000		9.6	mg/Kg	6010B
Potassium		1300	B	190	mg/Kg	6010B
Magnesium		2400		96	mg/Kg	6010B
Manganese		52		1.9	mg/Kg	6010B
Sodium		5600	B	190	mg/Kg	6010B
Nickel		5.6	J	7.7	mg/Kg	6010B
Lead		23		0.96	mg/Kg	6010B
Vanadium		21		1.9	mg/Kg	6010B
Zinc		100		3.8	mg/Kg	6010B
Mercury		0.14		0.041	mg/Kg	7471A
Percent Moisture		54		1.0	%	160.3
Percent Solids		46		1.0	%	160.3

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EXECUTIVE SUMMARY - Detections

Client: Spectra Tech

Job Number: 680-11658-1
Sdg Number: SA0C02

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
680-11658-15	**009M000402**					
Fluoranthene		230	J	900	ug/Kg	8270C
Pyrene		230	J	900	ug/Kg	8270C
Benzo[a]anthracene		100	J	900	ug/Kg	8270C
Bis(2-ethylhexyl) phthalate		230	J	900	ug/Kg	8270C
Chrysene		150	J	900	ug/Kg	8270C
Benzo[b]fluoranthene		230	J	900	ug/Kg	8270C
Benzo[k]fluoranthene		110	J	900	ug/Kg	8270C
Benzo[a]pyrene		120	J	900	ug/Kg	8270C
Indeno[1,2,3-cd]pyrene		86	J	900	ug/Kg	8270C
Benzo[g,h,i]perylene		100	J	900	ug/Kg	8270C
Aluminum		14000		53	mg/Kg	6010B
Arsenic		7.0		2.7	mg/Kg	6010B
Barium		37		2.7	mg/Kg	6010B
Beryllium		0.64	J	1.1	mg/Kg	6010B
Calcium		20000		130	mg/Kg	6010B
Cadmium		1.6		1.3	mg/Kg	6010B
Cobalt		3.9		2.7	mg/Kg	6010B
Chromium		160	B	2.7	mg/Kg	6010B
Copper		54		5.3	mg/Kg	6010B
Iron		15000		13	mg/Kg	6010B
Potassium		1900	B	270	mg/Kg	6010B
Magnesium		4900		130	mg/Kg	6010B
Manganese		100		2.7	mg/Kg	6010B
Sodium		8700	B	270	mg/Kg	6010B
Nickel		19		11	mg/Kg	6010B
Lead		71		1.3	mg/Kg	6010B
Vanadium		32		2.7	mg/Kg	6010B
Zinc		230		5.3	mg/Kg	6010B
Mercury		0.15		0.052	mg/Kg	7471A
Percent Moisture		63		1.0	%	160.3
Percent Solids		37		1.0	%	160.3

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METHOD SUMMARY

Client: Spectra Tech

Job Number: 680-11658-1
Sdg Number: SA0C02

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)	STL-SAV	SW846 8270C	
Ultrasonic Extraction	STL-SAV		SW846 3550B
Organochlorine Pesticides & Polychlorinated Biphenyls by Gas Chromatography	STL-SAV	SW846 8081A_8082	
Ultrasonic Extraction	STL-SAV		SW846 3550B
Inductively Coupled Plasma - Atomic Emission Spectrometry	STL-SAV	SW846 6010B	
Acid Digestion of Sediments, Sludges, and Soils	STL-SAV		SW846 3050B
Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)	STL-SAV	SW846 7471A	
Mercury in Solid or Semi-Solid Waste (Manual	STL-SAV		SW846 7471A
Percent Moisture	STL-SAV	EPA 160.3	

LAB REFERENCES:

STL-SAV = STL-Savannah

METHOD REFERENCES:

EPA - US Environmental Protection Agency

SW846 - "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

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SAMPLE SUMMARY

Client: Spectra Tech

Job Number: 680-11658-1
Sdg Number: SA0C02

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
680-11658-1	BSLM000101	Solid	12/13/2005 1058	12/15/2005 0936
680-11658-2	BSLM000201	Solid	12/13/2005 1110	12/15/2005 0936
680-11658-3	BSLM000901	Solid	12/13/2005 1132	12/15/2005 0936
680-11658-4	054M000102	Solid	12/13/2005 1158	12/15/2005 0936
680-11658-5	556M000702	Solid	12/13/2005 1212	12/15/2005 0936
680-11658-6	556M000502	Solid	12/13/2005 1225	12/15/2005 0936
680-11658-7	BSLM000401	Solid	12/13/2005 1238	12/15/2005 0936
680-11658-8	BSLM000301	Solid	12/13/2005 1246	12/15/2005 0936
680-11658-9	BSLM001001	Solid	12/13/2005 1315	12/15/2005 0936
680-11658-10	BSLM000801	Solid	12/13/2005 1340	12/15/2005 0936
680-11658-11	BSLM000501	Solid	12/13/2005 1408	12/15/2005 0936
680-11658-12	BSLM000701	Solid	12/13/2005 1434	12/15/2005 0936
680-11658-13	BSLM000601	Solid	12/13/2005 1450	12/15/2005 0936
680-11658-14	NOIM000402	Solid	12/13/2005 1609	12/15/2005 0936
680-11658-15	009M000402	Solid	12/14/2005 1055	12/15/2005 0936

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Analytical Data

Client: Spectra Tech

Job Number: 680-11658-1
Sdg Number: SA0C02

Client Sample ID: **BSLM000101**

Lab Sample ID: 680-11658-1
Client Matrix: Solid % Moisture: 64.6

Date Sampled: 12/13/2005 1058
Date Received: 12/15/2005 0936

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 01/04/2006 1127
Date Prepared: 12/23/2005 0815

Analysis Batch: 680-32923
Prep Batch: 680-32028

Instrument ID: GC/MS SemiVolatiles - T
Lab File ID: t1751.d
Initial Weight/Volume: 30.04 g
Final Weight/Volume: 1.0 mL
Injection Volume:

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Phenol		930	U	85	930
Bis(2-chloroethyl)ether		930	U	79	930
2-Chlorophenol		930	U	76	930
1,3-Dichlorobenzene		930	U	73	930
1,4-Dichlorobenzene		930	U	62	930
1,2-Dichlorobenzene		930	U	65	930
2-Methylphenol		930	U	85	930
N-Nitrosodi-n-propylamine		930	U	79	930
Hexachloroethane		930	U	56	930
Nitrobenzene		930	U	99	930
Isophorone		930	U	62	930
2-Nitrophenol		930	U	56	930
2,4-Dimethylphenol		930	U	99	930
Bis(2-chloroethoxy)methane		930	U	68	930
2,4-Dichlorophenol		930	U	65	930
1,2,4-Trichlorobenzene		930	U	59	930
Naphthalene		930	U	54	930
4-Chloroaniline		1900	U	73	1900
Hexachlorobutadiene		930	U	56	930
4-Chloro-3-methylphenol		930	U	96	930
2-Methylnaphthalene		930	U	68	930
Hexachlorocyclopentadiene		930	U *	230	930
2,4,6-Trichlorophenol		930	U	56	930
2,4,5-Trichlorophenol		930	U	90	930
2-Chloronaphthalene		930	U	68	930
2-Nitroaniline		4800	U	65	4800
Dimethyl phthalate		930	U	54	930
Acenaphthylene		930	U	48	930
3-Nitroaniline		4800	U	93	4800
Acenaphthene		930	U	54	930
2,4-Dinitrophenol		4800	U	480	4800
4-Nitrophenol		4800	U	590	4800
Dibenzofuran		930	U	54	930
2,4-Dinitrotoluene		930	U	54	930
2,6-Dinitrotoluene		930	U	93	930
3 & 4 Methylphenol		930	U	82	930
Diethyl phthalate		930	U	62	930
4-Chlorophenyl phenyl ether		930	U	54	930
Fluorene		930	U	62	930
4-Nitroaniline		4800	U	48	4800
4,6-Dinitro-2-methylphenol		4800	U	560	4800
N-Nitrosodiphenylamine		930	U	65	930
4-Bromophenyl phenyl ether		930	U	87	930

SEVERN TRENT STL®

Analytical Data

Client: Spectra Tech

Job Number: 680-11658-1
Sdg Number: SA0C02

Client Sample ID: BSLM000101

Lab Sample ID: 680-11658-1
Client Matrix: Solid % Moisture: 64.6

Date Sampled: 12/13/2005 1058
Date Received: 12/15/2005 0936

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 01/04/2006 1127
Date Prepared: 12/23/2005 0815

Analysis Batch: 680-32923
Prep Batch: 680-32028

Instrument ID: GC/MS SemiVolatiles - T
Lab File ID: t1751.d
Initial Weight/Volume: 30.04 g
Final Weight/Volume: 1.0 mL
Injection Volume:

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Hexachlorobenzene		930	U	73	930
Pentachlorophenol		4800	U	230	4800
Phenanthrene		930	U	82	930
Anthracene		930	U	65	930
Di-n-butyl phthalate		930	U	79	930
Fluoranthene		930	U	73	930
Pyrene		930	U	56	930
Butyl benzyl phthalate		930	U	76	930
3,3'-Dichlorobenzidine		1900	U	85	1900
Benzo[a]anthracene		930	U	87	930
Bis(2-ethylhexyl) phthalate		140	J	110	930
Chrysene		930	U	71	930
Di-n-octyl phthalate		930	U	87	930
Benzo[b]fluoranthene		930	U	73	930
Benzo[k]fluoranthene		930	U	100	930
Benzo[a]pyrene		930	U	54	930
Indeno[1,2,3-cd]pyrene		930	U	73	930
Dibenz(a,h)anthracene		930	U	68	930
Benzo[g,h,i]perylene		930	U	65	930
Carbazole		930	U	79	930
bis(chloroisopropyl) ether		930	U	99	930

Surrogate	%Rec	Acceptance Limits
Phenol-d5	53	38 - 102
2-Fluorophenol	52	36 - 101
2,4,6-Tribromophenol	68	27 - 124
Nitrobenzene-d5	50	33 - 94
2-Fluorobiphenyl	51	38 - 104
Terphenyl-d14	59	40 - 129

SEVERN TRENT STL®

Analytical Data

Client: Spectra Tech

Job Number: 680-11658-1
Sdg Number: SA0C02

Client Sample ID: **BSLM000201**

Lab Sample ID: 680-11658-2
Client Matrix: Solid % Moisture: 73.4

Date Sampled: 12/13/2005 1110
Date Received: 12/15/2005 0936

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 01/04/2006 1153
Date Prepared: 12/23/2005 0815

Analysis Batch: 680-32923
Prep Batch: 680-32028

Instrument ID: GC/MS SemiVolatiles - T
Lab File ID: t1752.d
Initial Weight/Volume: 30.00 g
Final Weight/Volume: 1.0 mL
Injection Volume:

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Phenol		1200	U	110	1200
Bis(2-chloroethyl)ether		1200	U	110	1200
2-Chlorophenol		1200	U	100	1200
1,3-Dichlorobenzene		1200	U	98	1200
1,4-Dichlorobenzene		1200	U	83	1200
1,2-Dichlorobenzene		1200	U	86	1200
2-Methylphenol		1200	U	110	1200
N-Nitrosodi-n-propylamine		1200	U	110	1200
Hexachloroethane		1200	U	75	1200
Nitrobenzene		1200	U	130	1200
Isophorone		1200	U	83	1200
2-Nitrophenol		1200	U	75	1200
2,4-Dimethylphenol		1200	U	130	1200
Bis(2-chloroethoxy)methane		1200	U	90	1200
2,4-Dichlorophenol		1200	U	86	1200
1,2,4-Trichlorobenzene		1200	U	79	1200
Naphthalene		1200	U	71	1200
4-Chloroaniline		2500	U	98	2500
Hexachlorobutadiene		1200	U	75	1200
4-Chloro-3-methylphenol		1200	U	130	1200
2-Methylnaphthalene		1200	U	90	1200
Hexachlorocyclopentadiene		1200	U *	310	1200
2,4,6-Trichlorophenol		1200	U	75	1200
2,4,5-Trichlorophenol		1200	U	120	1200
2-Chloronaphthalene		1200	U	90	1200
2-Nitroaniline		6400	U	86	6400
Dimethyl phthalate		1200	U	71	1200
Acenaphthylene		1200	U	64	1200
3-Nitroaniline		6400	U	120	6400
Acenaphthene		1200	U	71	1200
2,4-Dinitrophenol		6400	U	640	6400
4-Nitrophenol		6400	U	790	6400
Dibenzofuran		1200	U	71	1200
2,4-Dinitrotoluene		1200	U	71	1200
2,6-Dinitrotoluene		1200	U	120	1200
3 & 4 Methylphenol		1200	U	110	1200
Diethyl phthalate		1200	U	83	1200
4-Chlorophenyl phenyl ether		1200	U	71	1200
Fluorene		1200	U	83	1200
4-Nitroaniline		6400	U	64	6400
4,6-Dinitro-2-methylphenol		6400	U	750	6400
N-Nitrosodiphenylamine		1200	U	86	1200
4-Bromophenyl phenyl ether		1200	U	120	1200

SEVERN TRENT STL®

Analytical Data

Client: Spectra Tech

Job Number: 680-11658-1
Sdg Number: SA0C02

Client Sample ID: BSLM000201

Lab Sample ID: 680-11658-2
Client Matrix: Solid % Moisture: 73.4

Date Sampled: 12/13/2005 1110
Date Received: 12/15/2005 0936

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 01/04/2006 1153
Date Prepared: 12/23/2005 0815

Analysis Batch: 680-32923
Prep Batch: 680-32028

Instrument ID: GC/MS SemiVolatiles - T
Lab File ID: t1752.d
Initial Weight/Volume: 30.00 g
Final Weight/Volume: 1.0 mL
Injection Volume:

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Hexachlorobenzene		1200	U	98	1200
Pentachlorophenol		6400	U	310	6400
Phenanthrene		1200	U	110	1200
Anthracene		1200	U	86	1200
Di-n-butyl phthalate		1200	U	110	1200
Fluoranthene		110	J	98	1200
Pyrene		170	J	75	1200
Butyl benzyl phthalate		1200	U	100	1200
3,3'-Dichlorobenzidine		2500	U	110	2500
Benzo[a]anthracene		1200	U	120	1200
Bis(2-ethylhexyl) phthalate		170	J	140	1200
Chrysene		94	J	94	1200
Di-n-octyl phthalate		1200	U	120	1200
Benzo[b]fluoranthene		1200	U	98	1200
Benzo[k]fluoranthene		1200	U	140	1200
Benzo[a]pyrene		1200	U	71	1200
Indeno[1,2,3-cd]pyrene		1200	U	98	1200
Dibenz(a,h)anthracene		1200	U	90	1200
Benzo[g,h,i]perylene		1200	U	86	1200
Carbazole		1200	U	110	1200
bis(chloroisopropyl) ether		1200	U	130	1200

Surrogate	%Rec	Acceptance Limits
Phenol-d5	56	38 - 102
2-Fluorophenol	52	36 - 101
2,4,6-Tribromophenol	71	27 - 124
Nitrobenzene-d5	51	33 - 94
2-Fluorobiphenyl	53	38 - 104
Terphenyl-d14	64	40 - 129

SEVERN TRENT STL®

Analytical Data

Client: Spectra Tech

Job Number: 680-11658-1
Sdg Number: SA0C02

Client Sample ID: **BSLM000901**

Lab Sample ID: 680-11658-3
Client Matrix: Solid % Moisture: 56.5

Date Sampled: 12/13/2005 1132
Date Received: 12/15/2005 0936

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 01/05/2006 1110
Date Prepared: 12/23/2005 0815

Analysis Batch: 680-32997
Prep Batch: 680-32028

Instrument ID: GC/MS SemiVolatiles - T
Lab File ID: t1789.d
Initial Weight/Volume: 30.09 g
Final Weight/Volume: 1.0 mL
Injection Volume:

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Phenol		760	U	69	760
Bis(2-chloroethyl)ether		760	U	64	760
2-Chlorophenol		760	U	62	760
1,3-Dichlorobenzene		760	U	60	760
1,4-Dichlorobenzene		760	U	50	760
1,2-Dichlorobenzene		760	U	53	760
2-Methylphenol		760	U	69	760
N-Nitrosodi-n-propylamine		760	U	64	760
Hexachloroethane		760	U	46	760
Nitrobenzene		760	U	80	760
Isophorone		760	U	50	760
2-Nitrophenol		760	U	46	760
2,4-Dimethylphenol		760	U	80	760
Bis(2-chloroethoxy)methane		760	U	55	760
2,4-Dichlorophenol		760	U	53	760
1,2,4-Trichlorobenzene		760	U	48	760
Naphthalene		760	U	44	760
4-Chloroaniline		1500	U	60	1500
Hexachlorobutadiene		760	U	46	760
4-Chloro-3-methylphenol		760	U	78	760
2-Methylnaphthalene		760	U	55	760
Hexachlorocyclopentadiene		760	U *	190	760
2,4,6-Trichlorophenol		760	U	46	760
2,4,5-Trichlorophenol		760	U	73	760
2-Chloronaphthalene		760	U	55	760
2-Nitroaniline		3900	U	53	3900
Dimethyl phthalate		760	U	44	760
Acenaphthylene		69	J	39	760
3-Nitroaniline		3900	U	76	3900
Acenaphthene		760	U	44	760
2,4-Dinitrophenol		3900	U	390	3900
4-Nitrophenol		3900	U	480	3900
Dibenzofuran		760	U	44	760
2,4-Dinitrotoluene		760	U	44	760
2,6-Dinitrotoluene		760	U	76	760
3 & 4 Methylphenol		760	U	66	760
Diethyl phthalate		760	U	50	760
4-Chlorophenyl phenyl ether		760	U	44	760
Fluorene		760	U	50	760
4-Nitroaniline		3900	U	39	3900
4,6-Dinitro-2-methylphenol		3900	U	460	3900
N-Nitrosodiphenylamine		760	U	53	760
4-Bromophenyl phenyl ether		760	U	71	760

SEVERN TRENT STL®

Analytical Data

Client: Spectra Tech

Job Number: 680-11658-1
Sdg Number: SA0C02

Client Sample ID: **BSLM000901**

Lab Sample ID: 680-11658-3
Client Matrix: Solid % Moisture: 56.5

Date Sampled: 12/13/2005 1132
Date Received: 12/15/2005 0936

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 01/05/2006 1110
Date Prepared: 12/23/2005 0815

Analysis Batch: 680-32997
Prep Batch: 680-32028

Instrument ID: GC/MS SemiVolatiles - T
Lab File ID: t1789.d
Initial Weight/Volume: 30.09 g
Final Weight/Volume: 1.0 mL
Injection Volume:

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Hexachlorobenzene		760	U	60	760
Pentachlorophenol		3900	U	190	3900
Phenanthrene		760	U	66	760
Anthracene		88	J	53	760
Di-n-butyl phthalate		760	U	64	760
Fluoranthene		380	J	60	760
Pyrene		510	J	46	760
Butyl benzyl phthalate		760	U	62	760
3,3'-Dichlorobenzidine		1500	U	69	1500
Benzo[a]anthracene		230	J	71	760
Bis(2-ethylhexyl) phthalate		180	J	87	760
Chrysene		360	J	57	760
Di-n-octyl phthalate		760	U	71	760
Benzo[b]fluoranthene		420	J	60	760
Benzo[k]fluoranthene		330	J	83	760
Benzo[a]pyrene		380	J	44	760
Indeno[1,2,3-cd]pyrene		190	J	60	760
Dibenz(a,h)anthracene		760	U	55	760
Benzo[g,h,i]perylene		200	J	53	760
Carbazole		760	U	64	760
bis(chloroisopropyl) ether		760	U	80	760

Surrogate	%Rec	Acceptance Limits
Phenol-d5	56	38 - 102
2-Fluorophenol	56	36 - 101
2,4,6-Tribromophenol	71	27 - 124
Nitrobenzene-d5	54	33 - 94
2-Fluorobiphenyl	57	38 - 104
Terphenyl-d14	69	40 - 129

SEVERN TRENT STL®

Analytical Data

Client: Spectra Tech

Job Number: 680-11658-1
Sdg Number: SA0C02

Client Sample ID: **054M000102**

Lab Sample ID: 680-11658-4
Client Matrix: Solid % Moisture: 62.7

Date Sampled: 12/13/2005 1158
Date Received: 12/15/2005 0936

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 01/04/2006 1244
Date Prepared: 12/23/2005 0815

Analysis Batch: 680-32923
Prep Batch: 680-32028

Instrument ID: GC/MS SemiVolatiles - T
Lab File ID: t1754.d
Initial Weight/Volume: 30.06 g
Final Weight/Volume: 1.0 mL
Injection Volume:

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Phenol		880	U	80	880
Bis(2-chloroethyl)ether		880	U	75	880
2-Chlorophenol		880	U	72	880
1,3-Dichlorobenzene		880	U	70	880
1,4-Dichlorobenzene		880	U	59	880
1,2-Dichlorobenzene		880	U	62	880
2-Methylphenol		880	U	80	880
N-Nitrosodi-n-propylamine		880	U	75	880
Hexachloroethane		880	U	54	880
Nitrobenzene		880	U	94	880
Isophorone		880	U	59	880
2-Nitrophenol		880	U	54	880
2,4-Dimethylphenol		880	U	94	880
Bis(2-chloroethoxy)methane		880	U	64	880
2,4-Dichlorophenol		880	U	62	880
1,2,4-Trichlorobenzene		880	U	56	880
Naphthalene		880	U	51	880
4-Chloroaniline		1800	U	70	1800
Hexachlorobutadiene		880	U	54	880
4-Chloro-3-methylphenol		880	U	91	880
2-Methylnaphthalene		880	U	64	880
Hexachlorocyclopentadiene		880	U *	220	880
2,4,6-Trichlorophenol		880	U	54	880
2,4,5-Trichlorophenol		880	U	86	880
2-Chloronaphthalene		880	U	64	880
2-Nitroaniline		4500	U	62	4500
Dimethyl phthalate		880	U	51	880
Acenaphthylene		880	U	45	880
3-Nitroaniline		4500	U	88	4500
Acenaphthene		880	U	51	880
2,4-Dinitrophenol		4500	U	450	4500
4-Nitrophenol		4500	U	560	4500
Dibenzofuran		880	U	51	880
2,4-Dinitrotoluene		880	U	51	880
2,6-Dinitrotoluene		880	U	88	880
3 & 4 Methylphenol		880	U	78	880
Diethyl phthalate		880	U	59	880
4-Chlorophenyl phenyl ether		880	U	51	880
Fluorene		880	U	59	880
4-Nitroaniline		4500	U	45	4500
4,6-Dinitro-2-methylphenol		4500	U	540	4500
N-Nitrosodiphenylamine		880	U	62	880
4-Bromophenyl phenyl ether		880	U	83	880

SEVERN TRENT STL®

Analytical Data

Client: Spectra Tech

Job Number: 680-11658-1
Sdg Number: SA0C02

Client Sample ID: 054M000102

Lab Sample ID: 680-11658-4
Client Matrix: Solid % Moisture: 62.7

Date Sampled: 12/13/2005 1158
Date Received: 12/15/2005 0936

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 01/04/2006 1244
Date Prepared: 12/23/2005 0815

Analysis Batch: 680-32923
Prep Batch: 680-32028

Instrument ID: GC/MS SemiVolatiles - T
Lab File ID: t1754.d
Initial Weight/Volume: 30.06 g
Final Weight/Volume: 1.0 mL
Injection Volume:

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Hexachlorobenzene		880	U	70	880
Pentachlorophenol		4500	U	220	4500
Phenanthrene		880	U	78	880
Anthracene		880	U	62	880
Di-n-butyl phthalate		880	U	75	880
Fluoranthene		150	J	70	880
Pyrene		200	J	54	880
Butyl benzyl phthalate		880	U	72	880
3,3'-Dichlorobenzidine		1800	U	80	1800
Benzo[a]anthracene		880	U	83	880
Bis(2-ethylhexyl) phthalate		230	J	100	880
Chrysene		100	J	67	880
Di-n-octyl phthalate		880	U	83	880
Benzo[b]fluoranthene		99	J	70	880
Benzo[k]fluoranthene		880	U	96	880
Benzo[a]pyrene		78	J	51	880
Indeno[1,2,3-cd]pyrene		880	U	70	880
Dibenz(a,h)anthracene		880	U	64	880
Benzo[g,h,i]perylene		880	U	62	880
Carbazole		880	U	75	880
bis(chloroisopropyl) ether		880	U	94	880

Surrogate	%Rec	Acceptance Limits
Phenol-d5	50	38 - 102
2-Fluorophenol	48	36 - 101
2,4,6-Tribromophenol	62	27 - 124
Nitrobenzene-d5	47	33 - 94
2-Fluorobiphenyl	48	38 - 104
Terphenyl-d14	61	40 - 129

SEVERN TRENT STL®

Analytical Data

Client: Spectra Tech

Job Number: 680-11658-1
Sdg Number: SA0C02

Client Sample ID: 556M000702

Lab Sample ID: 680-11658-5
Client Matrix: Solid % Moisture: 79.5

Date Sampled: 12/13/2005 1212
Date Received: 12/15/2005 0936

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 01/04/2006 1309
Date Prepared: 12/23/2005 0815

Analysis Batch: 680-32923
Prep Batch: 680-32028

Instrument ID: GC/MS SemiVolatiles - T
Lab File ID: t1755.d
Initial Weight/Volume: 30.04 g
Final Weight/Volume: 1.0 mL
Injection Volume:

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Phenol		1600	U	150	1600
Bis(2-chloroethyl)ether		1600	U	140	1600
2-Chlorophenol		1600	U	130	1600
1,3-Dichlorobenzene		1600	U	130	1600
1,4-Dichlorobenzene		1600	U	110	1600
1,2-Dichlorobenzene		1600	U	110	1600
2-Methylphenol		1600	U	150	1600
N-Nitrosodi-n-propylamine		1600	U	140	1600
Hexachloroethane		1600	U	97	1600
Nitrobenzene		1600	U	170	1600
Isophorone		1600	U	110	1600
2-Nitrophenol		1600	U	97	1600
2,4-Dimethylphenol		1600	U	170	1600
Bis(2-chloroethoxy)methane		1600	U	120	1600
2,4-Dichlorophenol		1600	U	110	1600
1,2,4-Trichlorobenzene		1600	U	100	1600
Naphthalene		1600	U	93	1600
4-Chloroaniline		3200	U	130	3200
Hexachlorobutadiene		1600	U	97	1600
4-Chloro-3-methylphenol		1600	U	170	1600
2-Methylnaphthalene		130	J	120	1600
Hexachlorocyclopentadiene		1600	U *	400	1600
2,4,6-Trichlorophenol		1600	U	97	1600
2,4,5-Trichlorophenol		1600	U	160	1600
2-Chloronaphthalene		1600	U	120	1600
2-Nitroaniline		8300	U	110	8300
Dimethyl phthalate		1600	U	93	1600
Acenaphthylene		1600	U	83	1600
3-Nitroaniline		8300	U	160	8300
Acenaphthene		190	J	93	1600
2,4-Dinitrophenol		8300	U	830	8300
4-Nitrophenol		8300	U	1000	8300
Dibenzofuran		1600	U	93	1600
2,4-Dinitrotoluene		1600	U	93	1600
2,6-Dinitrotoluene		1600	U	160	1600
3 & 4 Methylphenol		1600	U	140	1600
Diethyl phthalate		1600	U	110	1600
4-Chlorophenyl phenyl ether		1600	U	93	1600
Fluorene		1600	U	110	1600
4-Nitroaniline		8300	U	83	8300
4,6-Dinitro-2-methylphenol		8300	U	970	8300
N-Nitrosodiphenylamine		1600	U	110	1600
4-Bromophenyl phenyl ether		1600	U	150	1600

SEVERN TRENT STL®

Analytical Data

Client: Spectra Tech

Job Number: 680-11658-1
Sdg Number: SA0C02

Client Sample ID: 556M000702

Lab Sample ID: 680-11658-5
Client Matrix: Solid % Moisture: 79.5

Date Sampled: 12/13/2005 1212
Date Received: 12/15/2005 0936

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 01/04/2006 1309
Date Prepared: 12/23/2005 0815

Analysis Batch: 680-32923
Prep Batch: 680-32028

Instrument ID: GC/MS SemiVolatiles - T
Lab File ID: t1755.d
Initial Weight/Volume: 30.04 g
Final Weight/Volume: 1.0 mL
Injection Volume:

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Hexachlorobenzene		1600	U	130	1600
Pentachlorophenol		8300	U	400	8300
Phenanthrene		370	J	140	1600
Anthracene		680	J	110	1600
Di-n-butyl phthalate		1600	U	140	1600
Fluoranthene		2000		130	1600
Pyrene		1400	J	97	1600
Butyl benzyl phthalate		1600	U	130	1600
3,3'-Dichlorobenzidine		3200	U	150	3200
Benzo[a]anthracene		870	J	150	1600
Bis(2-ethylhexyl) phthalate		780	J	190	1600
Chrysene		1100	J	120	1600
Di-n-octyl phthalate		1600	U	150	1600
Benzo[b]fluoranthene		670	J	130	1600
Benzo[k]fluoranthene		700	J	180	1600
Benzo[a]pyrene		670	J	93	1600
Indeno[1,2,3-cd]pyrene		270	J	130	1600
Dibenz(a,h)anthracene		1600	U	120	1600
Benzo[g,h,i]perylene		290	J	110	1600
Carbazole		1600	U	140	1600
bis(chloroisopropyl) ether		1600	U	170	1600

Surrogate	%Rec	Acceptance Limits
Phenol-d5	57	38 - 102
2-Fluorophenol	54	36 - 101
2,4,6-Tribromophenol	75	27 - 124
Nitrobenzene-d5	53	33 - 94
2-Fluorobiphenyl	54	38 - 104
Terphenyl-d14	61	40 - 129

SEVERN TRENT STL®

Analytical Data

Client: Spectra Tech

Job Number: 680-11658-1
Sdg Number: SA0C02

Client Sample ID: 556M000502

Lab Sample ID: 680-11658-6
Client Matrix: Solid % Moisture: 81.8

Date Sampled: 12/13/2005 1225
Date Received: 12/15/2005 0936

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 01/04/2006 1335
Date Prepared: 12/23/2005 0815

Analysis Batch: 680-32923
Prep Batch: 680-32028

Instrument ID: GC/MS SemiVolatiles - T
Lab File ID: t1756.d
Initial Weight/Volume: 30.01 g
Final Weight/Volume: 1.0 mL
Injection Volume:

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Phenol		1800	U	160	1800
Bis(2-chloroethyl)ether		1800	U	150	1800
2-Chlorophenol		1800	U	150	1800
1,3-Dichlorobenzene		1800	U	140	1800
1,4-Dichlorobenzene		1800	U	120	1800
1,2-Dichlorobenzene		1800	U	130	1800
2-Methylphenol		1800	U	160	1800
N-Nitrosodi-n-propylamine		1800	U	150	1800
Hexachloroethane		1800	U	110	1800
Nitrobenzene		1800	U	190	1800
Isophorone		1800	U	120	1800
2-Nitrophenol		1800	U	110	1800
2,4-Dimethylphenol		1800	U	190	1800
Bis(2-chloroethoxy)methane		1800	U	130	1800
2,4-Dichlorophenol		1800	U	130	1800
1,2,4-Trichlorobenzene		1800	U	120	1800
Naphthalene		1800	U	100	1800
4-Chloroaniline		3600	U	140	3600
Hexachlorobutadiene		1800	U	110	1800
4-Chloro-3-methylphenol		1800	U	190	1800
2-Methylnaphthalene		1800	U	130	1800
Hexachlorocyclopentadiene		1800	U *	460	1800
2,4,6-Trichlorophenol		1800	U	110	1800
2,4,5-Trichlorophenol		1800	U	180	1800
2-Chloronaphthalene		1800	U	130	1800
2-Nitroaniline		9300	U	130	9300
Dimethyl phthalate		1800	U	100	1800
Acenaphthylene		1800	U	93	1800
3-Nitroaniline		9300	U	180	9300
Acenaphthene		1800	U	100	1800
2,4-Dinitrophenol		9300	U	930	9300
4-Nitrophenol		9300	U	1200	9300
Dibenzofuran		1800	U	100	1800
2,4-Dinitrotoluene		1800	U	100	1800
2,6-Dinitrotoluene		1800	U	180	1800
3 & 4 Methylphenol		1800	U	160	1800
Diethyl phthalate		1800	U	120	1800
4-Chlorophenyl phenyl ether		1800	U	100	1800
Fluorene		1800	U	120	1800
4-Nitroaniline		9300	U	93	9300
4,6-Dinitro-2-methylphenol		9300	U	1100	9300
N-Nitrosodiphenylamine		1800	U	130	1800
4-Bromophenyl phenyl ether		1800	U	170	1800

SEVERN TRENT STL®

Analytical Data

Client: Spectra Tech

Job Number: 680-11658-1
Sdg Number: SA0C02

Client Sample ID: 556M000502

Lab Sample ID: 680-11658-6
Client Matrix: Solid % Moisture: 81.8

Date Sampled: 12/13/2005 1225
Date Received: 12/15/2005 0936

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 01/04/2006 1335
Date Prepared: 12/23/2005 0815

Analysis Batch: 680-32923
Prep Batch: 680-32028

Instrument ID: GC/MS SemiVolatiles - T
Lab File ID: t1756.d
Initial Weight/Volume: 30.01 g
Final Weight/Volume: 1.0 mL
Injection Volume:

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Hexachlorobenzene		1800	U	140	1800
Pentachlorophenol		9300	U	460	9300
Phenanthrene		1800	U	160	1800
Anthracene		280	J	130	1800
Di-n-butyl phthalate		1800	U	150	1800
Fluoranthene		640	J	140	1800
Pyrene		1300	J	110	1800
Butyl benzyl phthalate		1800	U	150	1800
3,3'-Dichlorobenzidine		3600	U	160	3600
Benzo[a]anthracene		520	J	170	1800
Bis(2-ethylhexyl) phthalate		510	J	210	1800
Chrysene		1000	J	140	1800
Di-n-octyl phthalate		1800	U	170	1800
Benzo[b]fluoranthene		880	J	140	1800
Benzo[k]fluoranthene		790	J	200	1800
Benzo[a]pyrene		770	J	100	1800
Indeno[1,2,3-cd]pyrene		320	J	140	1800
Dibenz(a,h)anthracene		1800	U	130	1800
Benzo[g,h,i]perylene		300	J	130	1800
Carbazole		1800	U	150	1800
bis(chloroisopropyl) ether		1800	U	190	1800

Surrogate	%Rec	Acceptance Limits
Phenol-d5	51	38 - 102
2-Fluorophenol	50	36 - 101
2,4,6-Tribromophenol	66	27 - 124
Nitrobenzene-d5	49	33 - 94
2-Fluorobiphenyl	50	38 - 104
Terphenyl-d14	61	40 - 129

SEVERN TRENT STL®

Analytical Data

Client: Spectra Tech

Job Number: 680-11658-1
Sdg Number: SA0C02

Client Sample ID: **BSLM000401**

Lab Sample ID: 680-11658-7
Client Matrix: Solid % Moisture: 30.6

Date Sampled: 12/13/2005 1238
Date Received: 12/15/2005 0936

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 01/04/2006 1401
Date Prepared: 12/23/2005 0815

Analysis Batch: 680-32923
Prep Batch: 680-32028

Instrument ID: GC/MS SemiVolatiles - T
Lab File ID: t1757.d
Initial Weight/Volume: 30.04 g
Final Weight/Volume: 1.0 mL
Injection Volume:

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Phenol		470	U	43	470
Bis(2-chloroethyl)ether		470	U	40	470
2-Chlorophenol		470	U	39	470
1,3-Dichlorobenzene		470	U	37	470
1,4-Dichlorobenzene		470	U	32	470
1,2-Dichlorobenzene		470	U	33	470
2-Methylphenol		470	U	43	470
N-Nitrosodi-n-propylamine		470	U	40	470
Hexachloroethane		470	U	29	470
Nitrobenzene		470	U	50	470
Isophorone		470	U	32	470
2-Nitrophenol		470	U	29	470
2,4-Dimethylphenol		470	U	50	470
Bis(2-chloroethoxy)methane		470	U	35	470
2,4-Dichlorophenol		470	U	33	470
1,2,4-Trichlorobenzene		470	U	30	470
Naphthalene		470	U	27	470
4-Chloroaniline		950	U	37	950
Hexachlorobutadiene		470	U	29	470
4-Chloro-3-methylphenol		470	U	49	470
2-Methylnaphthalene		470	U	35	470
Hexachlorocyclopentadiene		470	U *	120	470
2,4,6-Trichlorophenol		470	U	29	470
2,4,5-Trichlorophenol		470	U	46	470
2-Chloronaphthalene		470	U	35	470
2-Nitroaniline		2400	U	33	2400
Dimethyl phthalate		470	U	27	470
Acenaphthylene		470	U	24	470
3-Nitroaniline		2400	U	47	2400
Acenaphthene		470	U	27	470
2,4-Dinitrophenol		2400	U	240	2400
4-Nitrophenol		2400	U	300	2400
Dibenzofuran		470	U	27	470
2,4-Dinitrotoluene		470	U	27	470
2,6-Dinitrotoluene		470	U	47	470
3 & 4 Methylphenol		470	U	42	470
Diethyl phthalate		470	U	32	470
4-Chlorophenyl phenyl ether		470	U	27	470
Fluorene		470	U	32	470
4-Nitroaniline		2400	U	24	2400
4,6-Dinitro-2-methylphenol		2400	U	290	2400
N-Nitrosodiphenylamine		470	U	33	470
4-Bromophenyl phenyl ether		470	U	45	470

SEVERN TRENT STL®

Analytical Data

Client: Spectra Tech

Job Number: 680-11658-1
Sdg Number: SA0C02

Client Sample ID: **BSLM000401**

Lab Sample ID: 680-11658-7
Client Matrix: Solid % Moisture: 30.6

Date Sampled: 12/13/2005 1238
Date Received: 12/15/2005 0936

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 01/04/2006 1401
Date Prepared: 12/23/2005 0815

Analysis Batch: 680-32923
Prep Batch: 680-32028

Instrument ID: GC/MS SemiVolatiles - T
Lab File ID: t1757.d
Initial Weight/Volume: 30.04 g
Final Weight/Volume: 1.0 mL
Injection Volume:

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Hexachlorobenzene		470	U	37	470
Pentachlorophenol		2400	U	120	2400
Phenanthrene		470	U	42	470
Anthracene		470	U	33	470
Di-n-butyl phthalate		470	U	40	470
Fluoranthene		470	U	37	470
Pyrene		470	U	29	470
Butyl benzyl phthalate		470	U	39	470
3,3'-Dichlorobenzidine		950	U	43	950
Benzo[a]anthracene		470	U	45	470
Bis(2-ethylhexyl) phthalate		58	J	55	470
Chrysene		470	U	36	470
Di-n-octyl phthalate		470	U	45	470
Benzo[b]fluoranthene		470	U	37	470
Benzo[k]fluoranthene		470	U	52	470
Benzo[a]pyrene		470	U	27	470
Indeno[1,2,3-cd]pyrene		470	U	37	470
Dibenz(a,h)anthracene		470	U	35	470
Benzo[g,h,i]perylene		470	U	33	470
Carbazole		470	U	40	470
bis(chloroisopropyl) ether		470	U	50	470

Surrogate	%Rec	Acceptance Limits
Phenol-d5	54	38 - 102
2-Fluorophenol	53	36 - 101
2,4,6-Tribromophenol	69	27 - 124
Nitrobenzene-d5	51	33 - 94
2-Fluorobiphenyl	54	38 - 104
Terphenyl-d14	67	40 - 129

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Analytical Data

Client: Spectra Tech

Job Number: 680-11658-1
Sdg Number: SA0C02

Client Sample ID: **BSLM000301**

Lab Sample ID: 680-11658-8
Client Matrix: Solid % Moisture: 46.0

Date Sampled: 12/13/2005 1246
Date Received: 12/15/2005 0936

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 01/04/2006 1427
Date Prepared: 12/23/2005 0815

Analysis Batch: 680-32923
Prep Batch: 680-32028

Instrument ID: GC/MS SemiVolatiles - T
Lab File ID: t1758.d
Initial Weight/Volume: 30.02 g
Final Weight/Volume: 1.0 mL
Injection Volume:

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Phenol		610	U	56	610
Bis(2-chloroethyl)ether		610	U	52	610
2-Chlorophenol		610	U	50	610
1,3-Dichlorobenzene		610	U	48	610
1,4-Dichlorobenzene		610	U	41	610
1,2-Dichlorobenzene		610	U	43	610
2-Methylphenol		610	U	56	610
N-Nitrosodi-n-propylamine		610	U	52	610
Hexachloroethane		610	U	37	610
Nitrobenzene		610	U	65	610
Isophorone		610	U	41	610
2-Nitrophenol		610	U	37	610
2,4-Dimethylphenol		610	U	65	610
Bis(2-chloroethoxy)methane		610	U	44	610
2,4-Dichlorophenol		610	U	43	610
1,2,4-Trichlorobenzene		610	U	39	610
Naphthalene		610	U	35	610
4-Chloroaniline		1200	U	48	1200
Hexachlorobutadiene		610	U	37	610
4-Chloro-3-methylphenol		610	U	63	610
2-Methylnaphthalene		610	U	44	610
Hexachlorocyclopentadiene		610	U *	150	610
2,4,6-Trichlorophenol		610	U	37	610
2,4,5-Trichlorophenol		610	U	59	610
2-Chloronaphthalene		610	U	44	610
2-Nitroaniline		3100	U	43	3100
Dimethyl phthalate		610	U	35	610
Acenaphthylene		610	U	31	610
3-Nitroaniline		3100	U	61	3100
Acenaphthene		610	U	35	610
2,4-Dinitrophenol		3100	U	310	3100
4-Nitrophenol		3100	U	390	3100
Dibenzofuran		610	U	35	610
2,4-Dinitrotoluene		610	U	35	610
2,6-Dinitrotoluene		610	U	61	610
3 & 4 Methylphenol		610	U	54	610
Diethyl phthalate		610	U	41	610
4-Chlorophenyl phenyl ether		610	U	35	610
Fluorene		610	U	41	610
4-Nitroaniline		3100	U	31	3100
4,6-Dinitro-2-methylphenol		3100	U	370	3100
N-Nitrosodiphenylamine		610	U	43	610
4-Bromophenyl phenyl ether		610	U	57	610

SEVERN TRENT STL®

Analytical Data

Client: Spectra Tech

Job Number: 680-11658-1
Sdg Number: SA0C02

Client Sample ID: **BSLM000301**

Lab Sample ID: 680-11658-8
Client Matrix: Solid % Moisture: 46.0

Date Sampled: 12/13/2005 1246
Date Received: 12/15/2005 0936

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 01/04/2006 1427
Date Prepared: 12/23/2005 0815

Analysis Batch: 680-32923
Prep Batch: 680-32028

Instrument ID: GC/MS SemiVolatiles - T
Lab File ID: t1758.d
Initial Weight/Volume: 30.02 g
Final Weight/Volume: 1.0 mL
Injection Volume:

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Hexachlorobenzene		610	U	48	610
Pentachlorophenol		3100	U	150	3100
Phenanthrene		610	U	54	610
Anthracene		610	U	43	610
Di-n-butyl phthalate		610	U	52	610
Fluoranthene		610	U	48	610
Pyrene		610	U	37	610
Butyl benzyl phthalate		610	U	50	610
3,3'-Dichlorobenzidine		1200	U	56	1200
Benzo[a]anthracene		610	U	57	610
Bis(2-ethylhexyl) phthalate		610	U	70	610
Chrysene		610	U	46	610
Di-n-octyl phthalate		610	U	57	610
Benzo[b]fluoranthene		610	U	48	610
Benzo[k]fluoranthene		610	U	67	610
Benzo[a]pyrene		610	U	35	610
Indeno[1,2,3-cd]pyrene		610	U	48	610
Dibenz(a,h)anthracene		610	U	44	610
Benzo[g,h,i]perylene		610	U	43	610
Carbazole		610	U	52	610
bis(chloroisopropyl) ether		610	U	65	610

Surrogate	%Rec	Acceptance Limits
Phenol-d5	58	38 - 102
2-Fluorophenol	57	36 - 101
2,4,6-Tribromophenol	69	27 - 124
Nitrobenzene-d5	55	33 - 94
2-Fluorobiphenyl	53	38 - 104
Terphenyl-d14	67	40 - 129

SEVERN TRENT STL®

Analytical Data

Client: Spectra Tech

Job Number: 680-11658-1
Sdg Number: SA0C02

Client Sample ID: **BSLM001001**

Lab Sample ID: 680-11658-9
Client Matrix: Solid % Moisture: 32.6

Date Sampled: 12/13/2005 1315
Date Received: 12/15/2005 0936

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 01/04/2006 1452
Date Prepared: 12/23/2005 0815

Analysis Batch: 680-32923
Prep Batch: 680-32028

Instrument ID: GC/MS SemiVolatiles - T
Lab File ID: t1759.d
Initial Weight/Volume: 30.06 g
Final Weight/Volume: 1.0 mL
Injection Volume:

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Phenol		490	U	44	490
Bis(2-chloroethyl)ether		490	U	41	490
2-Chlorophenol		490	U	40	490
1,3-Dichlorobenzene		490	U	38	490
1,4-Dichlorobenzene		490	U	33	490
1,2-Dichlorobenzene		490	U	34	490
2-Methylphenol		490	U	44	490
N-Nitrosodi-n-propylamine		490	U	41	490
Hexachloroethane		490	U	30	490
Nitrobenzene		490	U	52	490
Isophorone		490	U	33	490
2-Nitrophenol		490	U	30	490
2,4-Dimethylphenol		490	U	52	490
Bis(2-chloroethoxy)methane		490	U	36	490
2,4-Dichlorophenol		490	U	34	490
1,2,4-Trichlorobenzene		490	U	31	490
Naphthalene		490	U	28	490
4-Chloroaniline		980	U	38	980
Hexachlorobutadiene		490	U	30	490
4-Chloro-3-methylphenol		490	U	50	490
2-Methylnaphthalene		490	U	36	490
Hexachlorocyclopentadiene		490	U *	120	490
2,4,6-Trichlorophenol		490	U	30	490
2,4,5-Trichlorophenol		490	U	47	490
2-Chloronaphthalene		490	U	36	490
2-Nitroaniline		2500	U	34	2500
Dimethyl phthalate		490	U	28	490
Acenaphthylene		490	U	25	490
3-Nitroaniline		2500	U	49	2500
Acenaphthene		490	U	28	490
2,4-Dinitrophenol		2500	U	250	2500
4-Nitrophenol		2500	U	310	2500
Dibenzofuran		490	U	28	490
2,4-Dinitrotoluene		490	U	28	490
2,6-Dinitrotoluene		490	U	49	490
3 & 4 Methylphenol		490	U	43	490
Diethyl phthalate		490	U	33	490
4-Chlorophenyl phenyl ether		490	U	28	490
Fluorene		490	U	33	490
4-Nitroaniline		2500	U	25	2500
4,6-Dinitro-2-methylphenol		2500	U	300	2500
N-Nitrosodiphenylamine		490	U	34	490
4-Bromophenyl phenyl ether		490	U	46	490

SEVERN TRENT STL®

Analytical Data

Client: Spectra Tech

Job Number: 680-11658-1
Sdg Number: SA0C02

Client Sample ID: **BSLM001001**

Lab Sample ID: 680-11658-9
Client Matrix: Solid % Moisture: 32.6

Date Sampled: 12/13/2005 1315
Date Received: 12/15/2005 0936

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 01/04/2006 1452
Date Prepared: 12/23/2005 0815

Analysis Batch: 680-32923
Prep Batch: 680-32028

Instrument ID: GC/MS SemiVolatiles - T
Lab File ID: t1759.d
Initial Weight/Volume: 30.06 g
Final Weight/Volume: 1.0 mL
Injection Volume:

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Hexachlorobenzene		490	U	38	490
Pentachlorophenol		2500	U	120	2500
Phenanthrene		490	U	43	490
Anthracene		490	U	34	490
Di-n-butyl phthalate		490	U	41	490
Fluoranthene		490	U	38	490
Pyrene		490	U	30	490
Butyl benzyl phthalate		490	U	40	490
3,3'-Dichlorobenzidine		980	U	44	980
Benzo[a]anthracene		490	U	46	490
Bis(2-ethylhexyl) phthalate		81	J	56	490
Chrysene		490	U	37	490
Di-n-octyl phthalate		490	U	46	490
Benzo[b]fluoranthene		490	U	38	490
Benzo[k]fluoranthene		490	U	53	490
Benzo[a]pyrene		490	U	28	490
Indeno[1,2,3-cd]pyrene		490	U	38	490
Dibenz(a,h)anthracene		490	U	36	490
Benzo[g,h,i]perylene		490	U	34	490
Carbazole		490	U	41	490
bis(chloroisopropyl) ether		490	U	52	490

Surrogate	%Rec	Acceptance Limits
Phenol-d5	46	38 - 102
2-Fluorophenol	43	36 - 101
2,4,6-Tribromophenol	61	27 - 124
Nitrobenzene-d5	42	33 - 94
2-Fluorobiphenyl	45	38 - 104
Terphenyl-d14	61	40 - 129

SEVERN TRENT STL®

Analytical Data

Client: Spectra Tech

Job Number: 680-11658-1
Sdg Number: SA0C02

Client Sample ID: **BSLM000801**

Lab Sample ID: 680-11658-10
Client Matrix: Solid % Moisture: 52.7

Date Sampled: 12/13/2005 1340
Date Received: 12/15/2005 0936

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 01/05/2006 1136
Date Prepared: 12/23/2005 0815

Analysis Batch: 680-32997
Prep Batch: 680-32028

Instrument ID: GC/MS SemiVolatiles - T
Lab File ID: t1790.d
Initial Weight/Volume: 30.08 g
Final Weight/Volume: 1.0 mL
Injection Volume:

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Phenol		700	U	63	700
Bis(2-chloroethyl)ether		700	U	59	700
2-Chlorophenol		700	U	57	700
1,3-Dichlorobenzene		700	U	55	700
1,4-Dichlorobenzene		700	U	46	700
1,2-Dichlorobenzene		700	U	48	700
2-Methylphenol		700	U	63	700
N-Nitrosodi-n-propylamine		700	U	59	700
Hexachloroethane		700	U	42	700
Nitrobenzene		700	U	74	700
Isophorone		700	U	46	700
2-Nitrophenol		700	U	42	700
2,4-Dimethylphenol		700	U	74	700
Bis(2-chloroethoxy)methane		700	U	51	700
2,4-Dichlorophenol		700	U	48	700
1,2,4-Trichlorobenzene		700	U	44	700
Naphthalene		700	U	40	700
4-Chloroaniline		1400	U	55	1400
Hexachlorobutadiene		700	U	42	700
4-Chloro-3-methylphenol		700	U	72	700
2-Methylnaphthalene		700	U	51	700
Hexachlorocyclopentadiene		700	U *	180	700
2,4,6-Trichlorophenol		700	U	42	700
2,4,5-Trichlorophenol		700	U	67	700
2-Chloronaphthalene		700	U	51	700
2-Nitroaniline		3600	U	48	3600
Dimethyl phthalate		700	U	40	700
Acenaphthylene		700	U	36	700
3-Nitroaniline		3600	U	70	3600
Acenaphthene		700	U	40	700
2,4-Dinitrophenol		3600	U	360	3600
4-Nitrophenol		3600	U	440	3600
Dibenzofuran		700	U	40	700
2,4-Dinitrotoluene		700	U	40	700
2,6-Dinitrotoluene		700	U	70	700
3 & 4 Methylphenol		700	U	61	700
Diethyl phthalate		700	U	46	700
4-Chlorophenyl phenyl ether		700	U	40	700
Fluorene		700	U	46	700
4-Nitroaniline		3600	U	36	3600
4,6-Dinitro-2-methylphenol		3600	U	420	3600
N-Nitrosodiphenylamine		700	U	48	700
4-Bromophenyl phenyl ether		700	U	65	700

SEVERN TRENT STL®

Analytical Data

Client: Spectra Tech

Job Number: 680-11658-1
Sdg Number: SA0C02

Client Sample ID: BSLM000801

Lab Sample ID: 680-11658-10
Client Matrix: Solid % Moisture: 52.7

Date Sampled: 12/13/2005 1340
Date Received: 12/15/2005 0936

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 01/05/2006 1136
Date Prepared: 12/23/2005 0815

Analysis Batch: 680-32997
Prep Batch: 680-32028

Instrument ID: GC/MS SemiVolatiles - T
Lab File ID: t1790.d
Initial Weight/Volume: 30.08 g
Final Weight/Volume: 1.0 mL
Injection Volume:

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Hexachlorobenzene		700	U	55	700
Pentachlorophenol		3600	U	180	3600
Phenanthrene		700	U	61	700
Anthracene		700	U	48	700
Di-n-butyl phthalate		700	U	59	700
Fluoranthene		700	U	55	700
Pyrene		52	J	42	700
Butyl benzyl phthalate		700	U	57	700
3,3'-Dichlorobenzidine		1400	U	63	1400
Benzo[a]anthracene		700	U	65	700
Bis(2-ethylhexyl) phthalate		700	U	80	700
Chrysene		120	J	53	700
Di-n-octyl phthalate		700	U	65	700
Benzo[b]fluoranthene		170	J	55	700
Benzo[k]fluoranthene		140	J	76	700
Benzo[a]pyrene		140	J	40	700
Indeno[1,2,3-cd]pyrene		61	J	55	700
Dibenz(a,h)anthracene		700	U	51	700
Benzo[g,h,i]perylene		69	J	48	700
Carbazole		700	U	59	700
bis(chloroisopropyl) ether		700	U	74	700

Surrogate	%Rec	Acceptance Limits
Phenol-d5	50	38 - 102
2-Fluorophenol	50	36 - 101
2,4,6-Tribromophenol	61	27 - 124
Nitrobenzene-d5	45	33 - 94
2-Fluorobiphenyl	48	38 - 104
Terphenyl-d14	64	40 - 129

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Analytical Data

Client: Spectra Tech

Job Number: 680-11658-1
Sdg Number: SA0C02

Client Sample ID: BSLM000501

Lab Sample ID: 680-11658-11
Client Matrix: Solid % Moisture: 41.2

Date Sampled: 12/13/2005 1408
Date Received: 12/15/2005 0936

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 01/05/2006 1201
Date Prepared: 12/23/2005 0815

Analysis Batch: 680-32997
Prep Batch: 680-32028

Instrument ID: GC/MS SemiVolatiles - T
Lab File ID: t1791.d
Initial Weight/Volume: 30.04 g
Final Weight/Volume: 1.0 mL
Injection Volume:

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Phenol		560	U	51	560
Bis(2-chloroethyl)ether		560	U	48	560
2-Chlorophenol		560	U	46	560
1,3-Dichlorobenzene		560	U	44	560
1,4-Dichlorobenzene		560	U	37	560
1,2-Dichlorobenzene		560	U	39	560
2-Methylphenol		560	U	51	560
N-Nitrosodi-n-propylamine		560	U	48	560
Hexachloroethane		560	U	34	560
Nitrobenzene		560	U	59	560
Isophorone		560	U	37	560
2-Nitrophenol		560	U	34	560
2,4-Dimethylphenol		560	U	59	560
Bis(2-chloroethoxy)methane		560	U	41	560
2,4-Dichlorophenol		560	U	39	560
1,2,4-Trichlorobenzene		560	U	36	560
Naphthalene		560	U	32	560
4-Chloroaniline		1100	U	44	1100
Hexachlorobutadiene		560	U	34	560
4-Chloro-3-methylphenol		560	U	58	560
2-Methylnaphthalene		560	U	41	560
Hexachlorocyclopentadiene		560	U *	140	560
2,4,6-Trichlorophenol		560	U	34	560
2,4,5-Trichlorophenol		560	U	54	560
2-Chloronaphthalene		560	U	41	560
2-Nitroaniline		2900	U	39	2900
Dimethyl phthalate		560	U	32	560
Acenaphthylene		560	U	29	560
3-Nitroaniline		2900	U	56	2900
Acenaphthene		560	U	32	560
2,4-Dinitrophenol		2900	U	290	2900
4-Nitrophenol		2900	U	360	2900
Dibenzofuran		560	U	32	560
2,4-Dinitrotoluene		560	U	32	560
2,6-Dinitrotoluene		560	U	56	560
3 & 4 Methylphenol		560	U	49	560
Diethyl phthalate		560	U	37	560
4-Chlorophenyl phenyl ether		560	U	32	560
Fluorene		560	U	37	560
4-Nitroaniline		2900	U	29	2900
4,6-Dinitro-2-methylphenol		2900	U	340	2900
N-Nitrosodiphenylamine		560	U	39	560
4-Bromophenyl phenyl ether		560	U	53	560

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Analytical Data

Client: Spectra Tech

Job Number: 680-11658-1
Sdg Number: SA0C02

Client Sample ID: **BSLM000501**

Lab Sample ID: 680-11658-11
Client Matrix: Solid % Moisture: 41.2

Date Sampled: 12/13/2005 1408
Date Received: 12/15/2005 0936

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 01/05/2006 1201
Date Prepared: 12/23/2005 0815

Analysis Batch: 680-32997
Prep Batch: 680-32028

Instrument ID: GC/MS SemiVolatiles - T
Lab File ID: t1791.d
Initial Weight/Volume: 30.04 g
Final Weight/Volume: 1.0 mL
Injection Volume:

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Hexachlorobenzene		560	U	44	560
Pentachlorophenol		2900	U	140	2900
Phenanthrene		560	U	49	560
Anthracene		560	U	39	560
Di-n-butyl phthalate		560	U	48	560
Fluoranthene		52	J	44	560
Pyrene		50	J	34	560
Butyl benzyl phthalate		560	U	46	560
3,3'-Dichlorobenzidine		1100	U	51	1100
Benzo[a]anthracene		560	U	53	560
Bis(2-ethylhexyl) phthalate		560	U	65	560
Chrysene		560	U	42	560
Di-n-octyl phthalate		560	U	53	560
Benzo[b]fluoranthene		560	U	44	560
Benzo[k]fluoranthene		560	U	61	560
Benzo[a]pyrene		560	U	32	560
Indeno[1,2,3-cd]pyrene		560	U	44	560
Dibenz(a,h)anthracene		560	U	41	560
Benzo[g,h,i]perylene		560	U	39	560
Carbazole		560	U	48	560
bis(chloroisopropyl) ether		560	U	59	560

Surrogate	%Rec	Acceptance Limits
Phenol-d5	53	38 - 102
2-Fluorophenol	51	36 - 101
2,4,6-Tribromophenol	70	27 - 124
Nitrobenzene-d5	49	33 - 94
2-Fluorobiphenyl	49	38 - 104
Terphenyl-d14	70	40 - 129

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Analytical Data

Client: Spectra Tech

Job Number: 680-11658-1
Sdg Number: SA0C02

Client Sample ID: **BSLM000701**

Lab Sample ID: 680-11658-12
Client Matrix: Solid % Moisture: 40.5

Date Sampled: 12/13/2005 1434
Date Received: 12/15/2005 0936

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 01/04/2006 1608
Date Prepared: 12/23/2005 0815

Analysis Batch: 680-32923
Prep Batch: 680-32028

Instrument ID: GC/MS SemiVolatiles - T
Lab File ID: t1762.d
Initial Weight/Volume: 30.04 g
Final Weight/Volume: 1.0 mL
Injection Volume:

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Phenol		550	U	50	550
Bis(2-chloroethyl)ether		550	U	47	550
2-Chlorophenol		550	U	45	550
1,3-Dichlorobenzene		550	U	44	550
1,4-Dichlorobenzene		550	U	37	550
1,2-Dichlorobenzene		550	U	39	550
2-Methylphenol		550	U	50	550
N-Nitrosodi-n-propylamine		550	U	47	550
Hexachloroethane		550	U	34	550
Nitrobenzene		550	U	59	550
Isophorone		550	U	37	550
2-Nitrophenol		550	U	34	550
2,4-Dimethylphenol		550	U	59	550
Bis(2-chloroethoxy)methane		550	U	40	550
2,4-Dichlorophenol		550	U	39	550
1,2,4-Trichlorobenzene		550	U	35	550
Naphthalene		550	U	32	550
4-Chloroaniline		1100	U	44	1100
Hexachlorobutadiene		550	U	34	550
4-Chloro-3-methylphenol		550	U	57	550
2-Methylnaphthalene		550	U	40	550
Hexachlorocyclopentadiene		550	U *	140	550
2,4,6-Trichlorophenol		550	U	34	550
2,4,5-Trichlorophenol		550	U	54	550
2-Chloronaphthalene		550	U	40	550
2-Nitroaniline		2900	U	39	2900
Dimethyl phthalate		550	U	32	550
Acenaphthylene		550	U	29	550
3-Nitroaniline		2900	U	55	2900
Acenaphthene		550	U	32	550
2,4-Dinitrophenol		2900	U	290	2900
4-Nitrophenol		2900	U	350	2900
Dibenzofuran		550	U	32	550
2,4-Dinitrotoluene		550	U	32	550
2,6-Dinitrotoluene		550	U	55	550
3 & 4 Methylphenol		550	U	49	550
Diethyl phthalate		550	U	37	550
4-Chlorophenyl phenyl ether		550	U	32	550
Fluorene		550	U	37	550
4-Nitroaniline		2900	U	29	2900
4,6-Dinitro-2-methylphenol		2900	U	340	2900
N-Nitrosodiphenylamine		550	U	39	550
4-Bromophenyl phenyl ether		550	U	52	550

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Analytical Data

Client: Spectra Tech

Job Number: 680-11658-1
Sdg Number: SA0C02

Client Sample ID: BSLM000701

Lab Sample ID: 680-11658-12
Client Matrix: Solid % Moisture: 40.5

Date Sampled: 12/13/2005 1434
Date Received: 12/15/2005 0936

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 01/04/2006 1608
Date Prepared: 12/23/2005 0815

Analysis Batch: 680-32923
Prep Batch: 680-32028

Instrument ID: GC/MS SemiVolatiles - T
Lab File ID: t1762.d
Initial Weight/Volume: 30.04 g
Final Weight/Volume: 1.0 mL
Injection Volume:

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Hexachlorobenzene		550	U	44	550
Pentachlorophenol		2900	U	140	2900
Phenanthrene		550	U	49	550
Anthracene		550	U	39	550
Di-n-butyl phthalate		550	U	47	550
Fluoranthene		550	U	44	550
Pyrene		550	U	34	550
Butyl benzyl phthalate		550	U	45	550
3,3'-Dichlorobenzidine		1100	U	50	1100
Benzo[a]anthracene		550	U	52	550
Bis(2-ethylhexyl) phthalate		65	J	64	550
Chrysene		550	U	42	550
Di-n-octyl phthalate		550	U	52	550
Benzo[b]fluoranthene		550	U	44	550
Benzo[k]fluoranthene		550	U	60	550
Benzo[a]pyrene		550	U	32	550
Indeno[1,2,3-cd]pyrene		550	U	44	550
Dibenz(a,h)anthracene		550	U	40	550
Benzo[g,h,i]perylene		550	U	39	550
Carbazole		550	U	47	550
bis(chloroisopropyl) ether		550	U	59	550

Surrogate	%Rec	Acceptance Limits
Phenol-d5	44	38 - 102
2-Fluorophenol	43	36 - 101
2,4,6-Tribromophenol	65	27 - 124
Nitrobenzene-d5	45	33 - 94
2-Fluorobiphenyl	47	38 - 104
Terphenyl-d14	66	40 - 129

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Analytical Data

Client: Spectra Tech

Job Number: 680-11658-1
Sdg Number: SA0C02

Client Sample ID: BSLM000601

Lab Sample ID: 680-11658-13
Client Matrix: Solid % Moisture: 38.1

Date Sampled: 12/13/2005 1450
Date Received: 12/15/2005 0936

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 01/04/2006 1633
Date Prepared: 12/23/2005 0815

Analysis Batch: 680-32923
Prep Batch: 680-32028

Instrument ID: GC/MS SemiVolatiles - T
Lab File ID: t1763.d
Initial Weight/Volume: 30.03 g
Final Weight/Volume: 1.0 mL
Injection Volume:

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Phenol		530	U	48	530
Bis(2-chloroethyl)ether		530	U	45	530
2-Chlorophenol		530	U	44	530
1,3-Dichlorobenzene		530	U	42	530
1,4-Dichlorobenzene		530	U	36	530
1,2-Dichlorobenzene		530	U	37	530
2-Methylphenol		530	U	48	530
N-Nitrosodi-n-propylamine		530	U	45	530
Hexachloroethane		530	U	32	530
Nitrobenzene		530	U	56	530
Isophorone		530	U	36	530
2-Nitrophenol		530	U	32	530
2,4-Dimethylphenol		530	U	56	530
Bis(2-chloroethoxy)methane		530	U	39	530
2,4-Dichlorophenol		530	U	37	530
1,2,4-Trichlorobenzene		530	U	34	530
Naphthalene		530	U	31	530
4-Chloroaniline		1100	U	42	1100
Hexachlorobutadiene		530	U	32	530
4-Chloro-3-methylphenol		530	U	55	530
2-Methylnaphthalene		530	U	39	530
Hexachlorocyclopentadiene		530	U *	130	530
2,4,6-Trichlorophenol		530	U	32	530
2,4,5-Trichlorophenol		530	U	52	530
2-Chloronaphthalene		530	U	39	530
2-Nitroaniline		2700	U	37	2700
Dimethyl phthalate		530	U	31	530
Acenaphthylene		530	U	27	530
3-Nitroaniline		2700	U	53	2700
Acenaphthene		530	U	31	530
2,4-Dinitrophenol		2700	U	270	2700
4-Nitrophenol		2700	U	340	2700
Dibenzofuran		530	U	31	530
2,4-Dinitrotoluene		530	U	31	530
2,6-Dinitrotoluene		530	U	53	530
3 & 4 Methylphenol		530	U	47	530
Diethyl phthalate		530	U	36	530
4-Chlorophenyl phenyl ether		530	U	31	530
Fluorene		530	U	36	530
4-Nitroaniline		2700	U	27	2700
4,6-Dinitro-2-methylphenol		2700	U	320	2700
N-Nitrosodiphenylamine		530	U	37	530
4-Bromophenyl phenyl ether		530	U	50	530

SEVERN TRENT STL®

Analytical Data

Client: Spectra Tech

Job Number: 680-11658-1
Sdg Number: SA0C02

Client Sample ID: BSLM000601

Lab Sample ID: 680-11658-13
Client Matrix: Solid % Moisture: 38.1

Date Sampled: 12/13/2005 1450
Date Received: 12/15/2005 0936

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 01/04/2006 1633
Date Prepared: 12/23/2005 0815

Analysis Batch: 680-32923
Prep Batch: 680-32028

Instrument ID: GC/MS SemiVolatiles - T
Lab File ID: t1763.d
Initial Weight/Volume: 30.03 g
Final Weight/Volume: 1.0 mL
Injection Volume:

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Hexachlorobenzene		530	U	42	530
Pentachlorophenol		2700	U	130	2700
Phenanthrene		530	U	47	530
Anthracene		530	U	37	530
Di-n-butyl phthalate		530	U	45	530
Fluoranthene		530	U	42	530
Pyrene		530	U	32	530
Butyl benzyl phthalate		530	U	44	530
3,3'-Dichlorobenzidine		1100	U	48	1100
Benzo[a]anthracene		530	U	50	530
Bis(2-ethylhexyl) phthalate		530	U	61	530
Chrysene		530	U	40	530
Di-n-octyl phthalate		530	U	50	530
Benzo[b]fluoranthene		530	U	42	530
Benzo[k]fluoranthene		530	U	58	530
Benzo[a]pyrene		530	U	31	530
Indeno[1,2,3-cd]pyrene		530	U	42	530
Dibenz(a,h)anthracene		530	U	39	530
Benzo[g,h,i]perylene		530	U	37	530
Carbazole		530	U	45	530
bis(chloroisopropyl) ether		530	U	56	530

Surrogate	%Rec	Acceptance Limits
Phenol-d5	53	38 - 102
2-Fluorophenol	51	36 - 101
2,4,6-Tribromophenol	67	27 - 124
Nitrobenzene-d5	51	33 - 94
2-Fluorobiphenyl	53	38 - 104
Terphenyl-d14	69	40 - 129

SEVERN TRENT STL®

Analytical Data

Client: Spectra Tech

Job Number: 680-11658-1
Sdg Number: SA0C02

Client Sample ID: **NOIM000402**

Lab Sample ID: 680-11658-14
Client Matrix: Solid % Moisture: 54.3

Date Sampled: 12/13/2005 1609
Date Received: 12/15/2005 0936

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 01/04/2006 1659
Date Prepared: 12/23/2005 0815

Analysis Batch: 680-32923
Prep Batch: 680-32028

Instrument ID: GC/MS SemiVolatiles - T
Lab File ID: t1764.d
Initial Weight/Volume: 30.08 g
Final Weight/Volume: 1.0 mL
Injection Volume:

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Phenol		720	U	65	720
Bis(2-chloroethyl)ether		720	U	61	720
2-Chlorophenol		720	U	59	720
1,3-Dichlorobenzene		720	U	57	720
1,4-Dichlorobenzene		720	U	48	720
1,2-Dichlorobenzene		720	U	50	720
2-Methylphenol		720	U	65	720
N-Nitrosodi-n-propylamine		720	U	61	720
Hexachloroethane		720	U	44	720
Nitrobenzene		720	U	76	720
Isophorone		720	U	48	720
2-Nitrophenol		720	U	44	720
2,4-Dimethylphenol		720	U	76	720
Bis(2-chloroethoxy)methane		720	U	52	720
2,4-Dichlorophenol		720	U	50	720
1,2,4-Trichlorobenzene		720	U	46	720
Naphthalene		720	U	41	720
4-Chloroaniline		1400	U	57	1400
Hexachlorobutadiene		720	U	44	720
4-Chloro-3-methylphenol		720	U	74	720
2-Methylnaphthalene		720	U	52	720
Hexachlorocyclopentadiene		720	U *	180	720
2,4,6-Trichlorophenol		720	U	44	720
2,4,5-Trichlorophenol		720	U	70	720
2-Chloronaphthalene		720	U	52	720
2-Nitroaniline		3700	U	50	3700
Dimethyl phthalate		720	U	41	720
Acenaphthylene		720	U	37	720
3-Nitroaniline		3700	U	72	3700
Acenaphthene		720	U	41	720
2,4-Dinitrophenol		3700	U	370	3700
4-Nitrophenol		3700	U	460	3700
Dibenzofuran		720	U	41	720
2,4-Dinitrotoluene		720	U	41	720
2,6-Dinitrotoluene		720	U	72	720
3 & 4 Methylphenol		720	U	63	720
Diethyl phthalate		720	U	48	720
4-Chlorophenyl phenyl ether		720	U	41	720
Fluorene		720	U	48	720
4-Nitroaniline		3700	U	37	3700
4,6-Dinitro-2-methylphenol		3700	U	440	3700
N-Nitrosodiphenylamine		720	U	50	720
4-Bromophenyl phenyl ether		720	U	68	720

SEVERN TRENT STL®

Analytical Data

Client: Spectra Tech

Job Number: 680-11658-1
Sdg Number: SA0C02

Client Sample ID: **NOIM000402**

Lab Sample ID: 680-11658-14
Client Matrix: Solid % Moisture: 54.3

Date Sampled: 12/13/2005 1609
Date Received: 12/15/2005 0936

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 01/04/2006 1659
Date Prepared: 12/23/2005 0815

Analysis Batch: 680-32923
Prep Batch: 680-32028

Instrument ID: GC/MS SemiVolatiles - T
Lab File ID: t1764.d
Initial Weight/Volume: 30.08 g
Final Weight/Volume: 1.0 mL
Injection Volume:

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Hexachlorobenzene		720	U	57	720
Pentachlorophenol		3700	U	180	3700
Phenanthrene		110	J	63	720
Anthracene		150	J	50	720
Di-n-butyl phthalate		720	U	61	720
Fluoranthene		650	J	57	720
Pyrene		540	J	44	720
Butyl benzyl phthalate		720	U	59	720
3,3'-Dichlorobenzidine		1400	U	65	1400
Benzo[a]anthracene		290	J	68	720
Bis(2-ethylhexyl) phthalate		460	J	83	720
Chrysene		380	J	55	720
Di-n-octyl phthalate		720	U	68	720
Benzo[b]fluoranthene		400	J	57	720
Benzo[k]fluoranthene		330	J	79	720
Benzo[a]pyrene		320	J	41	720
Indeno[1,2,3-cd]pyrene		230	J	57	720
Dibenz(a,h)anthracene		66	J	52	720
Benzo[g,h,i]perylene		240	J	50	720
Carbazole		720	U	61	720
bis(chloroisopropyl) ether		720	U	76	720

Surrogate	%Rec	Acceptance Limits
Phenol-d5	55	38 - 102
2-Fluorophenol	54	36 - 101
2,4,6-Tribromophenol	71	27 - 124
Nitrobenzene-d5	53	33 - 94
2-Fluorobiphenyl	56	38 - 104
Terphenyl-d14	68	40 - 129

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Analytical Data

Client: Spectra Tech

Job Number: 680-11658-1
Sdg Number: SA0C02

Client Sample ID: 009M000402

Lab Sample ID: 680-11658-15
Client Matrix: Solid % Moisture: 63.2

Date Sampled: 12/14/2005 1055
Date Received: 12/15/2005 0936

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 01/04/2006 1724
Date Prepared: 12/23/2005 0815

Analysis Batch: 680-32923
Prep Batch: 680-32028

Instrument ID: GC/MS SemiVolatiles - T
Lab File ID: t1765.d
Initial Weight/Volume: 30.00 g
Final Weight/Volume: 1.0 mL
Injection Volume:

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Phenol		900	U	82	900
Bis(2-chloroethyl)ether		900	U	76	900
2-Chlorophenol		900	U	73	900
1,3-Dichlorobenzene		900	U	71	900
1,4-Dichlorobenzene		900	U	60	900
1,2-Dichlorobenzene		900	U	63	900
2-Methylphenol		900	U	82	900
N-Nitrosodi-n-propylamine		900	U	76	900
Hexachloroethane		900	U	54	900
Nitrobenzene		900	U	95	900
Isophorone		900	U	60	900
2-Nitrophenol		900	U	54	900
2,4-Dimethylphenol		900	U	95	900
Bis(2-chloroethoxy)methane		900	U	65	900
2,4-Dichlorophenol		900	U	63	900
1,2,4-Trichlorobenzene		900	U	57	900
Naphthalene		900	U	52	900
4-Chloroaniline		1800	U	71	1800
Hexachlorobutadiene		900	U	54	900
4-Chloro-3-methylphenol		900	U	92	900
2-Methylnaphthalene		900	U	65	900
Hexachlorocyclopentadiene		900	U *	230	900
2,4,6-Trichlorophenol		900	U	54	900
2,4,5-Trichlorophenol		900	U	87	900
2-Chloronaphthalene		900	U	65	900
2-Nitroaniline		4600	U	63	4600
Dimethyl phthalate		900	U	52	900
Acenaphthylene		900	U	46	900
3-Nitroaniline		4600	U	90	4600
Acenaphthene		900	U	52	900
2,4-Dinitrophenol		4600	U	460	4600
4-Nitrophenol		4600	U	570	4600
Dibenzofuran		900	U	52	900
2,4-Dinitrotoluene		900	U	52	900
2,6-Dinitrotoluene		900	U	90	900
3 & 4 Methylphenol		900	U	79	900
Diethyl phthalate		900	U	60	900
4-Chlorophenyl phenyl ether		900	U	52	900
Fluorene		900	U	60	900
4-Nitroaniline		4600	U	46	4600
4,6-Dinitro-2-methylphenol		4600	U	540	4600
N-Nitrosodiphenylamine		900	U	63	900
4-Bromophenyl phenyl ether		900	U	84	900

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Analytical Data

Client: Spectra Tech

Job Number: 680-11658-1
Sdg Number: SA0C02

Client Sample ID: **009M000402**

Lab Sample ID: 680-11658-15
Client Matrix: Solid % Moisture: 63.2

Date Sampled: 12/14/2005 1055
Date Received: 12/15/2005 0936

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 01/04/2006 1724
Date Prepared: 12/23/2005 0815

Analysis Batch: 680-32923
Prep Batch: 680-32028

Instrument ID: GC/MS SemiVolatiles - T
Lab File ID: t1765.d
Initial Weight/Volume: 30.00 g
Final Weight/Volume: 1.0 mL
Injection Volume:

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Hexachlorobenzene		900	U	71	900
Pentachlorophenol		4600	U	230	4600
Phenanthrene		900	U	79	900
Anthracene		900	U	63	900
Di-n-butyl phthalate		900	U	76	900
Fluoranthene		230	J	71	900
Pyrene		230	J	54	900
Butyl benzyl phthalate		900	U	73	900
3,3'-Dichlorobenzidine		1800	U	82	1800
Benzo[a]anthracene		100	J	84	900
Bis(2-ethylhexyl) phthalate		230	J	100	900
Chrysene		150	J	68	900
Di-n-octyl phthalate		900	U	84	900
Benzo[b]fluoranthene		230	J	71	900
Benzo[k]fluoranthene		110	J	98	900
Benzo[a]pyrene		120	J	52	900
Indeno[1,2,3-cd]pyrene		86	J	71	900
Dibenz(a,h)anthracene		900	U	65	900
Benzo[g,h,i]perylene		100	J	63	900
Carbazole		900	U	76	900
bis(chloroisopropyl) ether		900	U	95	900

Surrogate	%Rec	Acceptance Limits
Phenol-d5	47	38 - 102
2-Fluorophenol	45	36 - 101
2,4,6-Tribromophenol	61	27 - 124
Nitrobenzene-d5	43	33 - 94
2-Fluorobiphenyl	46	38 - 104
Terphenyl-d14	58	40 - 129

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Analytical Data

Client: Spectra Tech

Job Number: 680-11658-1
Sdg Number: SA0C02

Client Sample ID: **BSLM000101**

Lab Sample ID: 680-11658-1
Client Matrix: Solid % Moisture: 64.6

Date Sampled: 12/13/2005 1058
Date Received: 12/15/2005 0936

8081A_8082 Organochlorine Pesticides & Polychlorinated Biphenyls by Gas Chromatography

Method: 8081A_8082
Preparation: 3550B
Dilution: 10
Date Analyzed: 01/05/2006 0336
Date Prepared: 12/23/2005 0802

Analysis Batch: 680-33041
Prep Batch: 680-32022

Instrument ID: GC SemiVolatiles - M
Lab File ID: mja04043.d
Initial Weight/Volume: 30.04 g
Final Weight/Volume: 10 mL
Injection Volume:
Column ID: PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD		93	U	8.5	93
4,4'-DDE		93	U	8.5	93
4,4'-DDT		93	U	7.6	93
Aldrin		48	U	3.9	48
alpha-BHC		48	U	15	48
beta-BHC		48	U	13	48
Chlordane (technical)		480	U	85	480
delta-BHC		48	U	6.5	48
Dieldrin		93	U	9.9	93
Endosulfan I		48	U	4.5	48
Endosulfan II		93	U	7.6	93
Endosulfan sulfate		93	U	10	93
Endrin		93	U	9.0	93
Endrin aldehyde		93	U	18	93
Endrin ketone		93	U	9.0	93
gamma-BHC (Lindane)		48	U	3.9	48
Heptachlor		48	U	9.0	48
Heptachlor epoxide		48	U	5.9	48
Methoxychlor		480	U	13	480
PCB-1016		930	U	190	930
PCB-1221		1900	U	190	1900
PCB-1232		930	U	170	930
PCB-1242		930	U	210	930
PCB-1248		930	U	230	930
PCB-1254		930	U	150	930
PCB-1260		930	U	180	930
Toxaphene		4800	U	340	4800

Surrogate	%Rec		Acceptance Limits
DCB Decachlorobiphenyl	0	D	30 - 150
Tetrachloro-m-xylene	0	D	30 - 150

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Analytical Data

Client: Spectra Tech

Job Number: 680-11658-1
Sdg Number: SA0C02

Client Sample ID: **BSLM000201**

Lab Sample ID: 680-11658-2
Client Matrix: Solid % Moisture: 73.4

Date Sampled: 12/13/2005 1110
Date Received: 12/15/2005 0936

8081A_8082 Organochlorine Pesticides & Polychlorinated Biphenyls by Gas Chromatography

Method: 8081A_8082
Preparation: 3550B
Dilution: 10
Date Analyzed: 01/05/2006 0356
Date Prepared: 12/23/2005 0802

Analysis Batch: 680-33041
Prep Batch: 680-32022

Instrument ID: GC SemiVolatiles - M
Lab File ID: mja04044.d
Initial Weight/Volume: 30.03 g
Final Weight/Volume: 10 mL
Injection Volume:
Column ID: PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD		120	U	11	120
4,4'-DDE		120	U	11	120
4,4'-DDT		120	U	10	120
Aldrin		64	U	5.3	64
alpha-BHC		64	U	20	64
beta-BHC		64	U	18	64
Chlordane (technical)		640	U	110	640
delta-BHC		64	U	8.6	64
Dieldrin		120	U	13	120
Endosulfan I		64	U	6.0	64
Endosulfan II		120	U	10	120
Endosulfan sulfate		120	U	14	120
Endrin		120	U	12	120
Endrin aldehyde		120	U	24	120
Endrin ketone		120	U	12	120
gamma-BHC (Lindane)		64	U	5.3	64
Heptachlor		64	U	12	64
Heptachlor epoxide		64	U	7.9	64
Methoxychlor		640	U	18	640
PCB-1016		1200	U	250	1200
PCB-1221		2500	U	260	2500
PCB-1232		1200	U	230	1200
PCB-1242		1200	U	280	1200
PCB-1248		1200	U	300	1200
PCB-1254		1200	U	200	1200
PCB-1260		1200	U	240	1200
Toxaphene		6400	U	450	6400

Surrogate	%Rec		Acceptance Limits
DCB Decachlorobiphenyl	0	D	30 - 150
Tetrachloro-m-xylene	0	D	30 - 150

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Analytical Data

Client: Spectra Tech

Job Number: 680-11658-1
Sdg Number: SA0C02

Client Sample ID: **BSLM000901**

Lab Sample ID: 680-11658-3
Client Matrix: Solid % Moisture: 56.5

Date Sampled: 12/13/2005 1132
Date Received: 12/15/2005 0936

8081A_8082 Organochlorine Pesticides & Polychlorinated Biphenyls by Gas Chromatography

Method: 8081A_8082
Preparation: 3550B
Dilution: 10
Date Analyzed: 01/05/2006 0415
Date Prepared: 12/23/2005 0802

Analysis Batch: 680-33041
Prep Batch: 680-32022

Instrument ID: GC SemiVolatiles - M
Lab File ID: mja04045.d
Initial Weight/Volume: 30.07 g
Final Weight/Volume: 10 mL
Injection Volume:
Column ID: PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD		76	U	6.9	76
4,4'-DDE		76	U	6.9	76
4,4'-DDT		76	U	6.2	76
Aldrin		39	U	3.2	39
alpha-BHC		39	U	12	39
beta-BHC		39	U	11	39
Chlordane (technical)		390	U	69	390
delta-BHC		39	U	5.3	39
Dieldrin		76	U	8.0	76
Endosulfan I		39	U	3.7	39
Endosulfan II		76	U	6.2	76
Endosulfan sulfate		76	U	8.5	76
Endrin		76	U	7.3	76
Endrin aldehyde		76	U	15	76
Endrin ketone		76	U	7.3	76
gamma-BHC (Lindane)		39	U	3.2	39
Heptachlor		39	U	7.3	39
Heptachlor epoxide		39	U	4.8	39
Methoxychlor		390	U	11	390
PCB-1016		760	U	150	760
PCB-1221		1500	U	160	1500
PCB-1232		760	U	140	760
PCB-1242		760	U	170	760
PCB-1248		760	U	180	760
PCB-1254		760	U	120	760
PCB-1260		760	U	150	760
Toxaphene		3900	U	280	3900

Surrogate	%Rec		Acceptance Limits
DCB Decachlorobiphenyl	0	D	30 - 150
Tetrachloro-m-xylene	0	D	30 - 150

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Analytical Data

Client: Spectra Tech

Job Number: 680-11658-1
Sdg Number: SA0C02

Client Sample ID: **054M000102**

Lab Sample ID: 680-11658-4
Client Matrix: Solid % Moisture: 62.7

Date Sampled: 12/13/2005 1158
Date Received: 12/15/2005 0936

8081A_8082 Organochlorine Pesticides & Polychlorinated Biphenyls by Gas Chromatography

Method: 8081A_8082
Preparation: 3550B
Dilution: 10
Date Analyzed: 01/05/2006 0435
Date Prepared: 12/23/2005 0802

Analysis Batch: 680-33041
Prep Batch: 680-32022

Instrument ID: GC SemiVolatiles - M
Lab File ID: mja04046.d
Initial Weight/Volume: 30.09 g
Final Weight/Volume: 10 mL
Injection Volume:
Column ID: PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD		88	U	8.0	88
4,4'-DDE		88	U	8.0	88
4,4'-DDT		88	U	7.2	88
Aldrin		45	U	3.7	45
alpha-BHC		45	U	14	45
beta-BHC		45	U	13	45
Chlordane (technical)		450	U	80	450
delta-BHC		45	U	6.1	45
Dieldrin		88	U	9.4	88
Endosulfan I		45	U	4.3	45
Endosulfan II		88	U	7.2	88
Endosulfan sulfate		88	U	9.9	88
Endrin		88	U	8.6	88
Endrin aldehyde		88	U	17	88
Endrin ketone		88	U	8.6	88
gamma-BHC (Lindane)		45	U	3.7	45
Heptachlor		45	U	8.6	45
Heptachlor epoxide		45	U	5.6	45
Methoxychlor		450	U	13	450
PCB-1016		880	U	180	880
PCB-1221		1800	U	180	1800
PCB-1232		880	U	170	880
PCB-1242		880	U	200	880
PCB-1248		880	U	210	880
PCB-1254		880	U	140	880
PCB-1260		880	U	170	880
Toxaphene		4500	U	320	4500

Surrogate	%Rec		Acceptance Limits
DCB Decachlorobiphenyl	0	D	30 - 150
Tetrachloro-m-xylene	0	D	30 - 150

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Analytical Data

Client: Spectra Tech

Job Number: 680-11658-1
Sdg Number: SA0C02

Client Sample ID: 556M000702

Lab Sample ID: 680-11658-5
Client Matrix: Solid % Moisture: 79.5

Date Sampled: 12/13/2005 1212
Date Received: 12/15/2005 0936

8081A_8082 Organochlorine Pesticides & Polychlorinated Biphenyls by Gas Chromatography

Method: 8081A_8082
Preparation: 3550B
Dilution: 10
Date Analyzed: 01/05/2006 0454
Date Prepared: 12/23/2005 0802

Analysis Batch: 680-33041
Prep Batch: 680-32022

Instrument ID: GC SemiVolatiles - M
Lab File ID: mja04047.d
Initial Weight/Volume: 30.05 g
Final Weight/Volume: 10 mL
Injection Volume:
Column ID: PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD		160	U	15	160
4,4'-DDE		160	U	15	160
4,4'-DDT		160	U	13	160
Aldrin		83	U	6.8	83
alpha-BHC		83	U	25	83
beta-BHC		83	U	23	83
Chlordane (technical)		830	U	150	830
delta-BHC		83	U	11	83
Dieldrin		160	U	17	160
Endosulfan I		83	U	7.8	83
Endosulfan II		160	U	13	160
Endosulfan sulfate		160	U	18	160
Endrin		160	U	16	160
Endrin aldehyde		160	U	32	160
Endrin ketone		160	U	16	160
gamma-BHC (Lindane)		83	U	6.8	83
Heptachlor		83	U	16	83
Heptachlor epoxide		83	U	10	83
Methoxychlor		830	U	23	830
PCB-1016		1600	U	330	1600
PCB-1221		3300	U	330	3300
PCB-1232		1600	U	300	1600
PCB-1242		1600	U	370	1600
PCB-1248		1600	U	390	1600
PCB-1254		1600	U	250	1600
PCB-1260		1600	U	310	1600
Toxaphene		8300	U	580	8300

Surrogate	%Rec		Acceptance Limits
DCB Decachlorobiphenyl	0	D	30 - 150
Tetrachloro-m-xylene	0	D	30 - 150

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Analytical Data

Client: Spectra Tech

Job Number: 680-11658-1
Sdg Number: SA0C02

Client Sample ID: 556M000502

Lab Sample ID: 680-11658-6
Client Matrix: Solid % Moisture: 81.8

Date Sampled: 12/13/2005 1225
Date Received: 12/15/2005 0936

8081A_8082 Organochlorine Pesticides & Polychlorinated Biphenyls by Gas Chromatography

Method: 8081A_8082
Preparation: 3550B
Dilution: 10
Date Analyzed: 01/05/2006 0513
Date Prepared: 12/23/2005 0802

Analysis Batch: 680-33041
Prep Batch: 680-32022

Instrument ID: GC SemiVolatiles - M
Lab File ID: mja04048.d
Initial Weight/Volume: 30.02 g
Final Weight/Volume: 10 mL
Injection Volume:
Column ID: PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD		180	U	16	180
4,4'-DDE		180	U	16	180
4,4'-DDT		180	U	15	180
Aldrin		93	U	7.7	93
alpha-BHC		93	U	29	93
beta-BHC		93	U	26	93
Chlordane (technical)		930	U	160	930
delta-BHC		93	U	13	93
Dieldrin		180	U	19	180
Endosulfan I		93	U	8.8	93
Endosulfan II		180	U	15	180
Endosulfan sulfate		180	U	20	180
Endrin		180	U	18	180
Endrin aldehyde		180	U	36	180
Endrin ketone		180	U	18	180
gamma-BHC (Lindane)		93	U	7.7	93
Heptachlor		93	U	18	93
Heptachlor epoxide		93	U	12	93
Methoxychlor		930	U	26	930
PCB-1016		1800	U	370	1800
PCB-1221		3700	U	370	3700
PCB-1232		1800	U	340	1800
PCB-1242		1800	U	410	1800
PCB-1248		1800	U	440	1800
PCB-1254		1800	U	290	1800
PCB-1260		1800	U	350	1800
Toxaphene		9300	U	660	9300

Surrogate	%Rec		Acceptance Limits
DCB Decachlorobiphenyl	0	D	30 - 150
Tetrachloro-m-xylene	0	D	30 - 150

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Analytical Data

Client: Spectra Tech

Job Number: 680-11658-1
Sdg Number: SA0C02

Client Sample ID: **BSLM000401**

Lab Sample ID: 680-11658-7
Client Matrix: Solid % Moisture: 30.6

Date Sampled: 12/13/2005 1238
Date Received: 12/15/2005 0936

8081A_8082 Organochlorine Pesticides & Polychlorinated Biphenyls by Gas Chromatography

Method: 8081A_8082
Preparation: 3550B
Dilution: 10
Date Analyzed: 01/05/2006 0533
Date Prepared: 12/23/2005 0802

Analysis Batch: 680-33041
Prep Batch: 680-32022

Instrument ID: GC SemiVolatiles - M
Lab File ID: mja04049.d
Initial Weight/Volume: 30.02 g
Final Weight/Volume: 10 mL
Injection Volume:
Column ID: PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD		48	U	4.3	48
4,4'-DDE		48	U	4.3	48
4,4'-DDT		48	U	3.9	48
Aldrin		24	U	2.0	24
alpha-BHC		24	U	7.5	24
beta-BHC		24	U	6.8	24
Chlordane (technical)		240	U	43	240
delta-BHC		24	U	3.3	24
Dieldrin		48	U	5.0	48
Endosulfan I		24	U	2.3	24
Endosulfan II		48	U	3.9	48
Endosulfan sulfate		48	U	5.3	48
Endrin		48	U	4.6	48
Endrin aldehyde		48	U	9.4	48
Endrin ketone		48	U	4.6	48
gamma-BHC (Lindane)		24	U	2.0	24
Heptachlor		24	U	4.6	24
Heptachlor epoxide		24	U	3.0	24
Methoxychlor		240	U	6.8	240
PCB-1016		480	U	96	480
PCB-1221		960	U	98	960
PCB-1232		480	U	89	480
PCB-1242		480	U	110	480
PCB-1248		480	U	120	480
PCB-1254		480	U	75	480
PCB-1260		480	U	92	480
Toxaphene		2400	U	170	2400

Surrogate	%Rec		Acceptance Limits
DCB Decachlorobiphenyl	0	D	30 - 150
Tetrachloro-m-xylene	0	D	30 - 150

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Analytical Data

Client: Spectra Tech

Job Number: 680-11658-1
Sdg Number: SA0C02

Client Sample ID: **BSLM000301**

Lab Sample ID: 680-11658-8
Client Matrix: Solid % Moisture: 46.0

Date Sampled: 12/13/2005 1246
Date Received: 12/15/2005 0936

8081A_8082 Organochlorine Pesticides & Polychlorinated Biphenyls by Gas Chromatography

Method: 8081A_8082
Preparation: 3550B
Dilution: 10
Date Analyzed: 01/05/2006 0552
Date Prepared: 12/23/2005 0802

Analysis Batch: 680-33041
Prep Batch: 680-32022

Instrument ID: GC SemiVolatiles - M
Lab File ID: mja04050.d
Initial Weight/Volume: 30.03 g
Final Weight/Volume: 10 mL
Injection Volume:
Column ID: PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD		61	U	5.6	61
4,4'-DDE		61	U	5.6	61
4,4'-DDT		61	U	5.0	61
Aldrin		31	U	2.6	31
alpha-BHC		31	U	9.6	31
beta-BHC		31	U	8.7	31
Chlordane (technical)		310	U	56	310
delta-BHC		31	U	4.3	31
Dieldrin		61	U	6.5	61
Endosulfan I		31	U	3.0	31
Endosulfan II		61	U	5.0	61
Endosulfan sulfate		61	U	6.8	61
Endrin		61	U	5.9	61
Endrin aldehyde		61	U	12	61
Endrin ketone		61	U	5.9	61
gamma-BHC (Lindane)		31	U	2.6	31
Heptachlor		31	U	5.9	31
Heptachlor epoxide		31	U	3.9	31
Methoxychlor		310	U	8.7	310
PCB-1016		610	U	120	610
PCB-1221		1200	U	130	1200
PCB-1232		610	U	110	610
PCB-1242		610	U	140	610
PCB-1248		610	U	150	610
PCB-1254		610	U	96	610
PCB-1260		610	U	120	610
Toxaphene		3100	U	220	3100

Surrogate	%Rec		Acceptance Limits
DCB Decachlorobiphenyl	0	D	30 - 150
Tetrachloro-m-xylene	0	D	30 - 150

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Analytical Data

Client: Spectra Tech

Job Number: 680-11658-1
Sdg Number: SA0C02

Client Sample ID: **BSLM001001**

Lab Sample ID: 680-11658-9
Client Matrix: Solid % Moisture: 32.6

Date Sampled: 12/13/2005 1315
Date Received: 12/15/2005 0936

8081A_8082 Organochlorine Pesticides & Polychlorinated Biphenyls by Gas Chromatography

Method: 8081A_8082
Preparation: 3550B
Dilution: 10
Date Analyzed: 01/05/2006 0612
Date Prepared: 12/23/2005 0802

Analysis Batch: 680-33041
Prep Batch: 680-32022

Instrument ID: GC SemiVolatiles - M
Lab File ID: mja04051.d
Initial Weight/Volume: 30.07 g
Final Weight/Volume: 10 mL
Injection Volume:
Column ID: PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD		49	U	4.4	49
4,4'-DDE		49	U	4.4	49
4,4'-DDT		49	U	4.0	49
Aldrin		25	U	2.1	25
alpha-BHC		25	U	7.7	25
beta-BHC		25	U	7.0	25
Chlordane (technical)		250	U	44	250
delta-BHC		25	U	3.4	25
Dieldrin		49	U	5.2	49
Endosulfan I		25	U	2.4	25
Endosulfan II		49	U	4.0	49
Endosulfan sulfate		49	U	5.5	49
Endrin		49	U	4.7	49
Endrin aldehyde		49	U	9.6	49
Endrin ketone		49	U	4.7	49
gamma-BHC (Lindane)		25	U	2.1	25
Heptachlor		25	U	4.7	25
Heptachlor epoxide		25	U	3.1	25
Methoxychlor		250	U	7.0	250
PCB-1016		490	U	99	490
PCB-1221		990	U	100	990
PCB-1232		490	U	92	490
PCB-1242		490	U	110	490
PCB-1248		490	U	120	490
PCB-1254		490	U	77	490
PCB-1260		490	U	95	490
Toxaphene		2500	U	180	2500

Surrogate	%Rec		Acceptance Limits
DCB Decachlorobiphenyl	0	D	30 - 150
Tetrachloro-m-xylene	0	D	30 - 150

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Analytical Data

Client: Spectra Tech

Job Number: 680-11658-1
Sdg Number: SA0C02

Client Sample ID: BSLM000801

Lab Sample ID: 680-11658-10
Client Matrix: Solid % Moisture: 52.7

Date Sampled: 12/13/2005 1340
Date Received: 12/15/2005 0936

8081A_8082 Organochlorine Pesticides & Polychlorinated Biphenyls by Gas Chromatography

Method: 8081A_8082
Preparation: 3550B
Dilution: 10
Date Analyzed: 01/05/2006 0631
Date Prepared: 12/23/2005 0802

Analysis Batch: 680-33041
Prep Batch: 680-32022

Instrument ID: GC SemiVolatiles - M
Lab File ID: mja04052.d
Initial Weight/Volume: 30.08 g
Final Weight/Volume: 10 mL
Injection Volume:
Column ID: PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD		70	U	6.3	70
4,4'-DDE		70	U	6.3	70
4,4'-DDT		70	U	5.7	70
Aldrin		36	U	3.0	36
alpha-BHC		36	U	11	36
beta-BHC		36	U	9.9	36
Chlordane (technical)		360	U	63	360
delta-BHC		36	U	4.8	36
Dieldrin		70	U	7.4	70
Endosulfan I		36	U	3.4	36
Endosulfan II		70	U	5.7	70
Endosulfan sulfate		70	U	7.8	70
Endrin		70	U	6.7	70
Endrin aldehyde		70	U	14	70
Endrin ketone		70	U	6.7	70
gamma-BHC (Lindane)		36	U	3.0	36
Heptachlor		36	U	6.7	36
Heptachlor epoxide		36	U	4.4	36
Methoxychlor		360	U	9.9	360
PCB-1016		700	U	140	700
PCB-1221		1400	U	140	1400
PCB-1232		700	U	130	700
PCB-1242		700	U	160	700
PCB-1248		700	U	170	700
PCB-1254		700	U	110	700
PCB-1260		700	U	130	700
Toxaphene		3600	U	250	3600

Surrogate	%Rec		Acceptance Limits
DCB Decachlorobiphenyl	0	D	30 - 150
Tetrachloro-m-xylene	0	D	30 - 150

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Analytical Data

Client: Spectra Tech

Job Number: 680-11658-1
Sdg Number: SA0C02

Client Sample ID: BSLM000501

Lab Sample ID: 680-11658-11
Client Matrix: Solid % Moisture: 41.2

Date Sampled: 12/13/2005 1408
Date Received: 12/15/2005 0936

8081A_8082 Organochlorine Pesticides & Polychlorinated Biphenyls by Gas Chromatography

Method: 8081A_8082
Preparation: 3550B
Dilution: 10
Date Analyzed: 01/05/2006 0651
Date Prepared: 12/23/2005 0802

Analysis Batch: 680-33041
Prep Batch: 680-32022

Instrument ID: GC SemiVolatiles - M
Lab File ID: mja04053.d
Initial Weight/Volume: 30.08 g
Final Weight/Volume: 10 mL
Injection Volume:
Column ID: PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD		56	U	5.1	56
4,4'-DDE		56	U	5.1	56
4,4'-DDT		56	U	4.6	56
Aldrin		29	U	2.4	29
alpha-BHC		29	U	8.8	29
beta-BHC		29	U	8.0	29
Chlordane (technical)		290	U	51	290
delta-BHC		29	U	3.9	29
Dieldrin		56	U	5.9	56
Endosulfan I		29	U	2.7	29
Endosulfan II		56	U	4.6	56
Endosulfan sulfate		56	U	6.3	56
Endrin		56	U	5.4	56
Endrin aldehyde		56	U	11	56
Endrin ketone		56	U	5.4	56
gamma-BHC (Lindane)		29	U	2.4	29
Heptachlor		29	U	5.4	29
Heptachlor epoxide		29	U	3.6	29
Methoxychlor		290	U	8.0	290
PCB-1016		560	U	110	560
PCB-1221		1100	U	120	1100
PCB-1232		560	U	110	560
PCB-1242		560	U	130	560
PCB-1248		560	U	140	560
PCB-1254		560	U	88	560
PCB-1260		560	U	110	560
Toxaphene		2900	U	200	2900

Surrogate	%Rec		Acceptance Limits
DCB Decachlorobiphenyl	0	D	30 - 150
Tetrachloro-m-xylene	0	D	30 - 150

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Analytical Data

Client: Spectra Tech

Job Number: 680-11658-1
Sdg Number: SA0C02

Client Sample ID: **BSLM000701**

Lab Sample ID: 680-11658-12
Client Matrix: Solid % Moisture: 40.5

Date Sampled: 12/13/2005 1434
Date Received: 12/15/2005 0936

8081A_8082 Organochlorine Pesticides & Polychlorinated Biphenyls by Gas Chromatography

Method: 8081A_8082
Preparation: 3550B
Dilution: 10
Date Analyzed: 01/05/2006 0710
Date Prepared: 12/23/2005 0802

Analysis Batch: 680-33041
Prep Batch: 680-32022

Instrument ID: GC SemiVolatiles - M
Lab File ID: mja04054.d
Initial Weight/Volume: 30.04 g
Final Weight/Volume: 10 mL
Injection Volume:
Column ID: PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD		55	U	5.0	55
4,4'-DDE		55	U	5.0	55
4,4'-DDT		55	U	4.5	55
Aldrin		29	U	2.3	29
alpha-BHC		29	U	8.7	29
beta-BHC		29	U	7.9	29
Chlordane (technical)		290	U	50	290
delta-BHC		29	U	3.9	29
Dieldrin		55	U	5.9	55
Endosulfan I		29	U	2.7	29
Endosulfan II		55	U	4.5	55
Endosulfan sulfate		55	U	6.2	55
Endrin		55	U	5.4	55
Endrin aldehyde		55	U	11	55
Endrin ketone		55	U	5.4	55
gamma-BHC (Lindane)		29	U	2.3	29
Heptachlor		29	U	5.4	29
Heptachlor epoxide		29	U	3.5	29
Methoxychlor		290	U	7.9	290
PCB-1016		550	U	110	550
PCB-1221		1100	U	110	1100
PCB-1232		550	U	100	550
PCB-1242		550	U	130	550
PCB-1248		550	U	130	550
PCB-1254		550	U	87	550
PCB-1260		550	U	110	550
Toxaphene		2900	U	200	2900

Surrogate	%Rec		Acceptance Limits
DCB Decachlorobiphenyl	0	D	30 - 150
Tetrachloro-m-xylene	0	D	30 - 150

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Analytical Data

Client: Spectra Tech

Job Number: 680-11658-1
Sdg Number: SA0C02

Client Sample ID: **BSLM000601**

Lab Sample ID: 680-11658-13
Client Matrix: Solid % Moisture: 38.1

Date Sampled: 12/13/2005 1450
Date Received: 12/15/2005 0936

8081A_8082 Organochlorine Pesticides & Polychlorinated Biphenyls by Gas Chromatography

Method: 8081A_8082
Preparation: 3550B
Dilution: 10
Date Analyzed: 01/05/2006 0730
Date Prepared: 12/23/2005 0802

Analysis Batch: 680-33041
Prep Batch: 680-32022

Instrument ID: GC SemiVolatiles - M
Lab File ID: mja04055.d
Initial Weight/Volume: 30.04 g
Final Weight/Volume: 10 mL
Injection Volume:
Column ID: PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD		53	U	4.8	53
4,4'-DDE		53	U	4.8	53
4,4'-DDT		53	U	4.4	53
Aldrin		27	U	2.3	27
alpha-BHC		27	U	8.4	27
beta-BHC		27	U	7.6	27
Chlordane (technical)		270	U	48	270
delta-BHC		27	U	3.7	27
Dieldrin		53	U	5.6	53
Endosulfan I		27	U	2.6	27
Endosulfan II		53	U	4.4	53
Endosulfan sulfate		53	U	6.0	53
Endrin		53	U	5.2	53
Endrin aldehyde		53	U	10	53
Endrin ketone		53	U	5.2	53
gamma-BHC (Lindane)		27	U	2.3	27
Heptachlor		27	U	5.2	27
Heptachlor epoxide		27	U	3.4	27
Methoxychlor		270	U	7.6	270
PCB-1016		530	U	110	530
PCB-1221		1100	U	110	1100
PCB-1232		530	U	100	530
PCB-1242		530	U	120	530
PCB-1248		530	U	130	530
PCB-1254		530	U	84	530
PCB-1260		530	U	100	530
Toxaphene		2700	U	190	2700

Surrogate	%Rec		Acceptance Limits
DCB Decachlorobiphenyl	0	D	30 - 150
Tetrachloro-m-xylene	0	D	30 - 150

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Analytical Data

Client: Spectra Tech

Job Number: 680-11658-1
Sdg Number: SA0C02

Client Sample ID: NOIM000402

Lab Sample ID: 680-11658-14
Client Matrix: Solid % Moisture: 54.3

Date Sampled: 12/13/2005 1609
Date Received: 12/15/2005 0936

8081A_8082 Organochlorine Pesticides & Polychlorinated Biphenyls by Gas Chromatography

Method: 8081A_8082
Preparation: 3550B
Dilution: 10
Date Analyzed: 01/05/2006 0749
Date Prepared: 12/23/2005 0802

Analysis Batch: 680-33041
Prep Batch: 680-32022

Instrument ID: GC SemiVolatiles - M
Lab File ID: mja04056.d
Initial Weight/Volume: 30.03 g
Final Weight/Volume: 10 mL
Injection Volume:
Column ID: PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD		72	U	6.6	72
4,4'-DDE		72	U	6.6	72
4,4'-DDT		72	U	5.9	72
Aldrin		37	U	3.1	37
alpha-BHC		37	U	11	37
beta-BHC		37	U	10	37
Chlordane (technical)		370	U	66	370
delta-BHC		37	U	5.0	37
Dieldrin		72	U	7.7	72
Endosulfan I		37	U	3.5	37
Endosulfan II		72	U	5.9	72
Endosulfan sulfate		72	U	8.1	72
Endrin		72	U	7.0	72
Endrin aldehyde		72	U	14	72
Endrin ketone		72	U	7.0	72
gamma-BHC (Lindane)		37	U	3.1	37
Heptachlor		37	U	7.0	37
Heptachlor epoxide		37	U	4.6	37
Methoxychlor		370	U	10	370
PCB-1016		720	U	150	720
PCB-1221		1500	U	150	1500
PCB-1232		720	U	140	720
PCB-1242		720	U	160	720
PCB-1248		720	U	170	720
PCB-1254		720	U	110	720
PCB-1260		720	U	140	720
Toxaphene		3700	U	260	3700

Surrogate	%Rec		Acceptance Limits
DCB Decachlorobiphenyl	0	D	30 - 150
Tetrachloro-m-xylene	0	D	30 - 150

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Analytical Data

Client: Spectra Tech

Job Number: 680-11658-1
Sdg Number: SA0C02

Client Sample ID: 009M000402

Lab Sample ID: 680-11658-15
Client Matrix: Solid % Moisture: 63.2

Date Sampled: 12/14/2005 1055
Date Received: 12/15/2005 0936

8081A_8082 Organochlorine Pesticides & Polychlorinated Biphenyls by Gas Chromatography

Method: 8081A_8082
Preparation: 3550B
Dilution: 10
Date Analyzed: 01/05/2006 0808
Date Prepared: 12/23/2005 0802

Analysis Batch: 680-33041
Prep Batch: 680-32022

Instrument ID: GC SemiVolatiles - M
Lab File ID: mja04057.d
Initial Weight/Volume: 30.08 g
Final Weight/Volume: 10 mL
Injection Volume:
Column ID: PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD		89	U	8.1	89
4,4'-DDE		89	U	8.1	89
4,4'-DDT		89	U	7.3	89
Aldrin		46	U	3.8	46
alpha-BHC		46	U	14	46
beta-BHC		46	U	13	46
Chlordane (technical)		460	U	81	460
delta-BHC		46	U	6.2	46
Dieldrin		89	U	9.5	89
Endosulfan I		46	U	4.3	46
Endosulfan II		89	U	7.3	89
Endosulfan sulfate		89	U	10	89
Endrin		89	U	8.7	89
Endrin aldehyde		89	U	18	89
Endrin ketone		89	U	8.7	89
gamma-BHC (Lindane)		46	U	3.8	46
Heptachlor		46	U	8.7	46
Heptachlor epoxide		46	U	5.7	46
Methoxychlor		460	U	13	460
PCB-1016		890	U	180	890
PCB-1221		1800	U	180	1800
PCB-1232		890	U	170	890
PCB-1242		890	U	200	890
PCB-1248		890	U	220	890
PCB-1254		890	U	140	890
PCB-1260		890	U	170	890
Toxaphene		4600	U	330	4600

Surrogate	%Rec		Acceptance Limits
DCB Decachlorobiphenyl	0	D	30 - 150
Tetrachloro-m-xylene	0	D	30 - 150

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Analytical Data

Client: Spectra Tech

Job Number: 680-11658-1
Sdg Number: SA0C02

Client Sample ID: BSLM000101

Lab Sample ID:	680-11658-1		Date Sampled:	12/13/2005 1058
Client Matrix:	Solid	% Moisture: 64.6	Date Received:	12/15/2005 0936

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method:	6010B	Analysis Batch: 680-32369	Instrument ID:	ICP/AES
Preparation:	3050B	Prep Batch: 680-31189	Lab File ID:	N/A
Dilution:	1.0		Initial Weight/Volume:	0.55 g
Date Analyzed:	12/28/2005 0519		Final Weight/Volume:	50 mL
Date Prepared:	12/16/2005 0838			

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Silver		2.6	U	0.25	2.6
Aluminum		27000		12	51
Arsenic		15		1.7	2.6
Barium		30		0.77	2.6
Beryllium		1.5		0.044	1.0
Calcium		3100		6.2	130
Cadmium		1.3	U	0.56	1.3
Cobalt		7.4		0.44	2.6
Chromium		56	B	0.33	2.6
Copper		7.7		0.44	5.1
Iron		33000		11	13
Potassium		4200	B	3.3	260
Magnesium		7100		3.1	130
Manganese		240		0.54	2.6
Sodium		10000	B	130	260
Nickel		15		0.67	10
Lead		14		0.54	1.3
Antimony		5.1	U	1.2	5.1
Selenium		6.4	U	2.3	6.4
Thallium		6.4	U	3.3	6.4
Vanadium		61		0.36	2.6
Zinc		53		1.9	5.1

7471A Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Method:	7471A	Analysis Batch: 680-31970	Instrument ID:	LEEMAN1
Preparation:	7471A	Prep Batch: 680-31625	Lab File ID:	N/A
Dilution:	1.0		Initial Weight/Volume:	1.08 g
Date Analyzed:	12/22/2005 0708		Final Weight/Volume:	50 mL
Date Prepared:	12/20/2005 1218			

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.035	J	0.010	0.052

SEVERN TRENT STL®

Analytical Data

Client: Spectra Tech

Job Number: 680-11658-1
Sdg Number: SA0C02

Client Sample ID: BSLM000201

Lab Sample ID: 680-11658-2
Client Matrix: Solid % Moisture: 73.4

Date Sampled: 12/13/2005 1110
Date Received: 12/15/2005 0936

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method: 6010B
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 12/28/2005 0543
Date Prepared: 12/16/2005 0838

Analysis Batch: 680-32369
Prep Batch: 680-31189

Instrument ID: ICP/AES
Lab File ID: N/A
Initial Weight/Volume: 0.52 g
Final Weight/Volume: 50 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Silver		3.6	U	0.36	3.6
Aluminum		19000		16	72
Arsenic		11		2.4	3.6
Barium		27		1.1	3.6
Beryllium		1.0	J	0.061	1.4
Calcium		16000		8.7	180
Cadmium		1.8	U	0.80	1.8
Cobalt		8.4		0.61	3.6
Chromium		42	B	0.47	3.6
Copper		16		0.61	7.2
Iron		22000		15	18
Potassium		2800	B	4.7	360
Magnesium		6300		4.3	180
Manganese		180		0.76	3.6
Sodium		14000	B	180	360
Nickel		12	J	0.94	14
Lead		15		0.76	1.8
Antimony		7.2	U	1.6	7.2
Selenium		9.0	U	3.3	9.0
Thallium		9.0	U	4.7	9.0
Vanadium		43		0.51	3.6
Zinc		64		2.7	7.2

7471A Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Method: 7471A
Preparation: 7471A
Dilution: 1.0
Date Analyzed: 12/22/2005 0710
Date Prepared: 12/20/2005 1218

Analysis Batch: 680-31970
Prep Batch: 680-31625

Instrument ID: LEEMAN1
Lab File ID: N/A
Initial Weight/Volume: 1.02 g
Final Weight/Volume: 50 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.059	J	0.015	0.074

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Analytical Data

Client: Spectra Tech

Job Number: 680-11658-1
Sdg Number: SA0C02

Client Sample ID: BSLM000901

Lab Sample ID:	680-11658-3			Date Sampled:	12/13/2005 1132
Client Matrix:	Solid	% Moisture: 56.5		Date Received:	12/15/2005 0936

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method:	6010B	Analysis Batch: 680-32369		Instrument ID:	ICP/AES
Preparation:	3050B	Prep Batch: 680-31189		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.56 g
Date Analyzed:	12/28/2005 0547			Final Weight/Volume:	50 mL
Date Prepared:	12/16/2005 0838				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Silver		2.1	U	0.20	2.1
Aluminum		12000		9.2	41
Arsenic		5.2		1.4	2.1
Barium		16		0.62	2.1
Beryllium		0.51	J	0.035	0.82
Calcium		19000		4.9	100
Cadmium		1.0	U	0.45	1.0
Cobalt		3.9		0.35	2.1
Chromium		23	B	0.27	2.1
Copper		13		0.35	4.1
Iron		11000		8.6	10
Potassium		1500	B	2.7	210
Magnesium		3700		2.5	100
Manganese		140		0.43	2.1
Sodium		7900	B	100	210
Nickel		6.9	J	0.53	8.2
Lead		9.8		0.43	1.0
Antimony		4.1	U	0.92	4.1
Selenium		5.1	U	1.8	5.1
Thallium		5.1	U	2.7	5.1
Vanadium		25		0.29	2.1
Zinc		43		1.5	4.1

7471A Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Method:	7471A	Analysis Batch: 680-31970		Instrument ID:	LEEMAN1
Preparation:	7471A	Prep Batch: 680-31625		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	1.07 g
Date Analyzed:	12/22/2005 0713			Final Weight/Volume:	50 mL
Date Prepared:	12/20/2005 1218				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.045		0.0086	0.043

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Analytical Data

Client: Spectra Tech

Job Number: 680-11658-1
Sdg Number: SA0C02

Client Sample ID: 054M000102

Lab Sample ID: 680-11658-4
Client Matrix: Solid % Moisture: 62.7

Date Sampled: 12/13/2005 1158
Date Received: 12/15/2005 0936

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method: 6010B
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 12/28/2005 0552
Date Prepared: 12/16/2005 0838

Analysis Batch: 680-32369
Prep Batch: 680-31189

Instrument ID: ICP/AES
Lab File ID: N/A
Initial Weight/Volume: 0.55 g
Final Weight/Volume: 50 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Silver		0.97	J	0.24	2.4
Aluminum		23000		11	49
Arsenic		11		1.6	2.4
Barium		48		0.73	2.4
Beryllium		1.0		0.041	0.97
Calcium		11000		5.8	120
Cadmium		0.54	J	0.54	1.2
Cobalt		10		0.41	2.4
Chromium		51	B	0.32	2.4
Copper		140		0.41	4.9
Iron		26000		10	12
Potassium		2200	B	3.2	240
Magnesium		6100		2.9	120
Manganese		390		0.51	2.4
Sodium		9600	B	120	240
Nickel		28		0.63	9.7
Lead		79		0.51	1.2
Antimony		4.9	U	1.1	4.9
Selenium		6.1	U	2.2	6.1
Thallium		6.1	U	3.2	6.1
Vanadium		49		0.34	2.4
Zinc		680		1.8	4.9

7471A Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Method: 7471A
Preparation: 7471A
Dilution: 1.0
Date Analyzed: 12/22/2005 0716
Date Prepared: 12/20/2005 1218

Analysis Batch: 680-31970
Prep Batch: 680-31625

Instrument ID: LEEMAN1
Lab File ID: N/A
Initial Weight/Volume: 1.03 g
Final Weight/Volume: 50 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.23		0.010	0.052

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Analytical Data

Client: Spectra Tech

Job Number: 680-11658-1
Sdg Number: SA0C02

Client Sample ID: 556M000702

Lab Sample ID:	680-11658-5			Date Sampled:	12/13/2005 1212
Client Matrix:	Solid	% Moisture: 79.5		Date Received:	12/15/2005 0936

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method:	6010B	Analysis Batch: 680-32369		Instrument ID:	ICP/AES
Preparation:	3050B	Prep Batch: 680-31189		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.58 g
Date Analyzed:	12/28/2005 0606			Final Weight/Volume:	50 mL
Date Prepared:	12/16/2005 0838				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Silver		4.2	U	0.42	4.2
Aluminum		31000		19	84
Arsenic		19		2.8	4.2
Barium		93		1.3	4.2
Beryllium		1.4	J	0.071	1.7
Calcium		40000		10	210
Cadmium		2.1	U	0.93	2.1
Cobalt		9.1		0.71	4.2
Chromium		60	B	0.55	4.2
Copper		1200		0.71	8.4
Iron		33000		18	21
Potassium		4400	B	5.5	420
Magnesium		11000		5.0	210
Manganese		650		0.88	4.2
Sodium		27000	B	210	420
Nickel		25		1.1	17
Lead		26		0.88	2.1
Antimony		8.4	U	1.9	8.4
Selenium		11	U	3.8	11
Thallium		11	U	5.5	11
Vanadium		71		0.59	4.2
Zinc		600		3.2	8.4

7471A Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Method:	7471A	Analysis Batch: 680-31970		Instrument ID:	LEEMAN1
Preparation:	7471A	Prep Batch: 680-31625		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	1.10 g
Date Analyzed:	12/22/2005 0718			Final Weight/Volume:	50 mL
Date Prepared:	12/20/2005 1218				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.074	J	0.018	0.089

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Analytical Data

Client: Spectra Tech

Job Number: 680-11658-1
Sdg Number: SA0C02

Client Sample ID: 556M000502

Lab Sample ID:	680-11658-6			Date Sampled:	12/13/2005 1225
Client Matrix:	Solid	% Moisture:	81.8	Date Received:	12/15/2005 0936

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method:	6010B	Analysis Batch: 680-32369		Instrument ID:	ICP/AES
Preparation:	3050B	Prep Batch: 680-31189		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.57 g
Date Analyzed:	12/28/2005 0611			Final Weight/Volume:	50 mL
Date Prepared:	12/16/2005 0838				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Silver		4.8	U	0.48	4.8
Aluminum		35000		22	96
Arsenic		18		3.2	4.8
Barium		42		1.4	4.8
Beryllium		1.5	J	0.082	1.9
Calcium		29000		12	240
Cadmium		2.4	U	1.1	2.4
Cobalt		10		0.82	4.8
Chromium		69	B	0.63	4.8
Copper		44		0.82	9.6
Iron		34000		20	24
Potassium		5000	B	6.3	480
Magnesium		11000		5.8	240
Manganese		400		1.0	4.8
Sodium		29000	B	240	480
Nickel		20		1.3	19
Lead		26		1.0	2.4
Antimony		9.6	U	2.2	9.6
Selenium		12	U	4.3	12
Thallium		12	U	6.3	12
Vanadium		77		0.67	4.8
Zinc		120		3.6	9.6

7471A Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Method:	7471A	Analysis Batch: 680-31970		Instrument ID:	LEEMAN1
Preparation:	7471A	Prep Batch: 680-31625		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	1.07 g
Date Analyzed:	12/22/2005 0721			Final Weight/Volume:	50 mL
Date Prepared:	12/20/2005 1218				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.077	J	0.021	0.10

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Analytical Data

Client: Spectra Tech

Job Number: 680-11658-1
Sdg Number: SA0C02

Client Sample ID: BSLM000401

Lab Sample ID: 680-11658-7
Client Matrix: Solid % Moisture: 30.6

Date Sampled: 12/13/2005 1238
Date Received: 12/15/2005 0936

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method: 6010B
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 12/28/2005 0616
Date Prepared: 12/16/2005 0838

Analysis Batch: 680-32369
Prep Batch: 680-31189

Instrument ID: ICP/AES
Lab File ID: N/A
Initial Weight/Volume: 0.52 g
Final Weight/Volume: 50 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Silver		1.4	U	0.14	1.4
Aluminum		1600		6.2	28
Arsenic		0.98	J	0.93	1.4
Barium		9.4		0.42	1.4
Beryllium		0.12	J	0.024	0.55
Calcium		3000		3.3	69
Cadmium		0.69	U	0.30	0.69
Cobalt		0.49	J	0.24	1.4
Chromium		4.5	B	0.18	1.4
Copper		1.1	J	0.24	2.8
Iron		1800		5.8	6.9
Potassium		240	B	1.8	140
Magnesium		530		1.7	69
Manganese		33		0.29	1.4
Sodium		2000	B	69	140
Nickel		1.1	J	0.36	5.5
Lead		2.7		0.29	0.69
Antimony		2.8	U	0.62	2.8
Selenium		3.5	U	1.2	3.5
Thallium		3.5	U	1.8	3.5
Vanadium		4.2		0.19	1.4
Zinc		9.7		1.0	2.8

7471A Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Method: 7471A
Preparation: 7471A
Dilution: 1.0
Date Analyzed: 12/22/2005 0723
Date Prepared: 12/20/2005 1218

Analysis Batch: 680-31970
Prep Batch: 680-31625

Instrument ID: LEEMAN1
Lab File ID: N/A
Initial Weight/Volume: 1.15 g
Final Weight/Volume: 50 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0053	J	0.0050	0.025

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Analytical Data

Client: Spectra Tech

Job Number: 680-11658-1
Sdg Number: SA0C02

Client Sample ID: BSLM000301

Lab Sample ID:	680-11658-8			Date Sampled:	12/13/2005 1246
Client Matrix:	Solid	% Moisture: 46.0		Date Received:	12/15/2005 0936

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method:	6010B	Analysis Batch: 680-32369		Instrument ID:	ICP/AES
Preparation:	3050B	Prep Batch: 680-31189		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.56 g
Date Analyzed:	12/28/2005 0620			Final Weight/Volume:	50 mL
Date Prepared:	12/16/2005 0838				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Silver		1.7	U	0.16	1.7
Aluminum		7700		7.4	33
Arsenic		3.8		1.1	1.7
Barium		9.7		0.50	1.7
Beryllium		0.35	J	0.028	0.66
Calcium		19000		4.0	83
Cadmium		0.83	U	0.36	0.83
Cobalt		1.8		0.28	1.7
Chromium		16	B	0.21	1.7
Copper		5.9		0.28	3.3
Iron		7900		6.9	8.3
Potassium		970	B	2.1	170
Magnesium		2200		2.0	83
Manganese		74		0.35	1.7
Sodium		5100	B	83	170
Nickel		5.2	J	0.43	6.6
Lead		6.7		0.35	0.83
Antimony		3.3	U	0.74	3.3
Selenium		4.1	U	1.5	4.1
Thallium		4.1	U	2.1	4.1
Vanadium		17		0.23	1.7
Zinc		25		1.2	3.3

7471A Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Method:	7471A	Analysis Batch: 680-31970		Instrument ID:	LEEMAN1
Preparation:	7471A	Prep Batch: 680-31625		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	1.13 g
Date Analyzed:	12/22/2005 0726			Final Weight/Volume:	50 mL
Date Prepared:	12/20/2005 1218				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.031	J	0.0066	0.033

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Analytical Data

Client: Spectra Tech

Job Number: 680-11658-1
Sdg Number: SA0C02

Client Sample ID: BSLM001001

Lab Sample ID:	680-11658-9			Date Sampled:	12/13/2005 1315
Client Matrix:	Solid	% Moisture: 32.6		Date Received:	12/15/2005 0936

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method:	6010B	Analysis Batch: 680-32369		Instrument ID:	ICP/AES
Preparation:	3050B	Prep Batch: 680-31189		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.52 g
Date Analyzed:	12/28/2005 0625			Final Weight/Volume:	50 mL
Date Prepared:	12/16/2005 0838				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Silver		1.4	U	0.14	1.4
Aluminum		5400		6.4	29
Arsenic		3.2		0.96	1.4
Barium		8.8		0.43	1.4
Beryllium		0.33	J	0.024	0.57
Calcium		15000		3.4	71
Cadmium		0.71	U	0.31	0.71
Cobalt		1.3	J	0.24	1.4
Chromium		13	B	0.19	1.4
Copper		2.4	J	0.24	2.9
Iron		5800		6.0	7.1
Potassium		830	B	1.9	140
Magnesium		1900		1.7	71
Manganese		58		0.30	1.4
Sodium		4200	B	71	140
Nickel		3.2	J	0.37	5.7
Lead		3.4		0.30	0.71
Antimony		2.9	U	0.64	2.9
Selenium		3.6	U	1.3	3.6
Thallium		3.6	U	1.9	3.6
Vanadium		12		0.20	1.4
Zinc		24		1.1	2.9

7471A Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Method:	7471A	Analysis Batch: 680-31970		Instrument ID:	LEEMAN1
Preparation:	7471A	Prep Batch: 680-31625		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	1.18 g
Date Analyzed:	12/22/2005 0734			Final Weight/Volume:	50 mL
Date Prepared:	12/20/2005 1218				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0078	J	0.0050	0.025

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Analytical Data

Client: Spectra Tech

Job Number: 680-11658-1
Sdg Number: SA0C02

Client Sample ID: BSLM000801

Lab Sample ID:	680-11658-10			Date Sampled:	12/13/2005 1340
Client Matrix:	Solid	% Moisture: 52.7		Date Received:	12/15/2005 0936

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method:	6010B	Analysis Batch: 680-32369		Instrument ID:	ICP/AES
Preparation:	3050B	Prep Batch: 680-31189		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.51 g
Date Analyzed:	12/28/2005 0630			Final Weight/Volume:	50 mL
Date Prepared:	12/16/2005 0838				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Silver		2.1	U	0.21	2.1
Aluminum		14000		9.3	41
Arsenic		9.0		1.4	2.1
Barium		25		0.62	2.1
Beryllium		0.67	J	0.035	0.83
Calcium		140000		5.0	100
Cadmium		1.0	U	0.46	1.0
Cobalt		3.4		0.35	2.1
Chromium		21	B	0.27	2.1
Copper		15		0.35	4.1
Iron		14000		8.7	10
Potassium		1800	B	2.7	210
Magnesium		3900		2.5	100
Manganese		160		0.44	2.1
Sodium		9900	B	100	210
Nickel		6.9	J	0.54	8.3
Lead		21		0.44	1.0
Antimony		4.1	U	0.93	4.1
Selenium		5.2	U	1.9	5.2
Thallium		5.2	U	2.7	5.2
Vanadium		32		0.29	2.1
Zinc		60		1.6	4.1

7471A Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Method:	7471A	Analysis Batch: 680-31970		Instrument ID:	LEEMAN1
Preparation:	7471A	Prep Batch: 680-31625		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	1.14 g
Date Analyzed:	12/22/2005 0737			Final Weight/Volume:	50 mL
Date Prepared:	12/20/2005 1218				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.11		0.0074	0.037

SEVERN TRENT STL®

Analytical Data

Client: Spectra Tech

Job Number: 680-11658-1
Sdg Number: SA0C02

Client Sample ID: BSLM000501

Lab Sample ID: 680-11658-11
Client Matrix: Solid % Moisture: 41.2

Date Sampled: 12/13/2005 1408
Date Received: 12/15/2005 0936

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method: 6010B
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 12/28/2005 0635
Date Prepared: 12/16/2005 0838

Analysis Batch: 680-32369
Prep Batch: 680-31189

Instrument ID: ICP/AES
Lab File ID: N/A
Initial Weight/Volume: 0.53 g
Final Weight/Volume: 50 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Silver		1.6	U	0.16	1.6
Aluminum		7900		7.2	32
Arsenic		5.9		1.1	1.6
Barium		11		0.48	1.6
Beryllium		0.42	J	0.027	0.64
Calcium		40000		3.9	80
Cadmium		0.80	U	0.35	0.80
Cobalt		2.0		0.27	1.6
Chromium		17	B	0.21	1.6
Copper		4.3		0.27	3.2
Iron		8900		6.7	8.0
Potassium		1200	B	2.1	160
Magnesium		2800		1.9	80
Manganese		97		0.34	1.6
Sodium		6400	B	80	160
Nickel		4.8	J	0.42	6.4
Lead		4.9		0.34	0.80
Antimony		3.2	U	0.72	3.2
Selenium		4.0	U	1.4	4.0
Thallium		4.0	U	2.1	4.0
Vanadium		18		0.22	1.6
Zinc		21		1.2	3.2

7471A Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Method: 7471A
Preparation: 7471A
Dilution: 1.0
Date Analyzed: 12/22/2005 0740
Date Prepared: 12/20/2005 1218

Analysis Batch: 680-31970
Prep Batch: 680-31625

Instrument ID: LEEMAN1
Lab File ID: N/A
Initial Weight/Volume: 1.08 g
Final Weight/Volume: 50 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.016	J	0.0063	0.031

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Analytical Data

Client: Spectra Tech

Job Number: 680-11658-1
Sdg Number: SA0C02

Client Sample ID: BSLM000701

Lab Sample ID:	680-11658-12	Date Sampled:	12/13/2005 1434
Client Matrix:	Solid % Moisture: 40.5	Date Received:	12/15/2005 0936

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method:	6010B	Analysis Batch: 680-32369		Instrument ID:	ICP/AES
Preparation:	3050B	Prep Batch: 680-31189		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.55 g
Date Analyzed:	12/28/2005 0639			Final Weight/Volume:	50 mL
Date Prepared:	12/16/2005 0838				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Silver		1.5	U	0.15	1.5
Aluminum		8300		6.9	31
Arsenic		3.6		1.0	1.5
Barium		18		0.46	1.5
Beryllium		0.36	J	0.026	0.61
Calcium		4800		3.7	76
Cadmium		0.76	U	0.34	0.76
Cobalt		1.9		0.26	1.5
Chromium		15	B	0.20	1.5
Copper		5.9		0.26	3.1
Iron		8600		6.4	7.6
Potassium		1000	B	2.0	150
Magnesium		2100		1.8	76
Manganese		57		0.32	1.5
Sodium		5300	B	76	150
Nickel		4.6	J	0.40	6.1
Lead		8.6		0.32	0.76
Antimony		3.1	U	0.69	3.1
Selenium		3.8	U	1.4	3.8
Thallium		3.8	U	2.0	3.8
Vanadium		21		0.21	1.5
Zinc		40		1.1	3.1

7471A Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Method:	7471A	Analysis Batch: 680-31970		Instrument ID:	LEEMAN1
Preparation:	7471A	Prep Batch: 680-31625		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	1.04 g
Date Analyzed:	12/22/2005 0742			Final Weight/Volume:	50 mL
Date Prepared:	12/20/2005 1218				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.034		0.0065	0.032

SEVERN TRENT STL®

Analytical Data

Client: Spectra Tech

Job Number: 680-11658-1
Sdg Number: SA0C02

Client Sample ID: BSLM000601

Lab Sample ID:	680-11658-13			Date Sampled:	12/13/2005 1450
Client Matrix:	Solid	% Moisture: 38.1		Date Received:	12/15/2005 0936

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method:	6010B	Analysis Batch: 680-32369		Instrument ID:	ICP/AES
Preparation:	3050B	Prep Batch: 680-31189		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.51 g
Date Analyzed:	12/28/2005 0653			Final Weight/Volume:	50 mL
Date Prepared:	12/16/2005 0838				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Silver		1.6	U	0.16	1.6
Aluminum		4300		7.1	32
Arsenic		2.4		1.1	1.6
Barium		18		0.48	1.6
Beryllium		0.23	J	0.027	0.63
Calcium		6400		3.8	79
Cadmium		0.79	U	0.35	0.79
Cobalt		1.2	J	0.27	1.6
Chromium		10	B	0.21	1.6
Copper		3.2		0.27	3.2
Iron		5000		6.7	7.9
Potassium		690	B	2.1	160
Magnesium		1600		1.9	79
Manganese		41		0.33	1.6
Sodium		4600	B	79	160
Nickel		2.4	J	0.41	6.3
Lead		4.3		0.33	0.79
Antimony		3.2	U	0.71	3.2
Selenium		4.0	U	1.4	4.0
Thallium		4.0	U	2.1	4.0
Vanadium		11		0.22	1.6
Zinc		18		1.2	3.2

7471A Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Method:	7471A	Analysis Batch: 680-31970		Instrument ID:	LEEMAN1
Preparation:	7471A	Prep Batch: 680-31625		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	1.17 g
Date Analyzed:	12/22/2005 0745			Final Weight/Volume:	50 mL
Date Prepared:	12/20/2005 1218				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.018	J	0.0055	0.028

SEVERN TRENT STL®

Analytical Data

Client: Spectra Tech

Job Number: 680-11658-1
Sdg Number: SA0C02

Client Sample ID: NOIM000402

Lab Sample ID:	680-11658-14			Date Sampled:	12/13/2005 1609
Client Matrix:	Solid	% Moisture: 54.3		Date Received:	12/15/2005 0936

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method:	6010B	Analysis Batch: 680-32369		Instrument ID:	ICP/AES
Preparation:	3050B	Prep Batch: 680-31189		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.57 g
Date Analyzed:	12/28/2005 0658			Final Weight/Volume:	50 mL
Date Prepared:	12/16/2005 0838				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Silver		1.9	U	0.19	1.9
Aluminum		9500		8.6	38
Arsenic		5.9		1.3	1.9
Barium		14		0.58	1.9
Beryllium		0.46	J	0.033	0.77
Calcium		2600		4.6	96
Cadmium		0.96	U	0.42	0.96
Cobalt		3.3		0.33	1.9
Chromium		20	B	0.25	1.9
Copper		15		0.33	3.8
Iron		11000		8.1	9.6
Potassium		1300	B	2.5	190
Magnesium		2400		2.3	96
Manganese		52		0.40	1.9
Sodium		5600	B	96	190
Nickel		5.6	J	0.50	7.7
Lead		23		0.40	0.96
Antimony		3.8	U	0.86	3.8
Selenium		4.8	U	1.7	4.8
Thallium		4.8	U	2.5	4.8
Vanadium		21		0.27	1.9
Zinc		100		1.4	3.8

7471A Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Method:	7471A	Analysis Batch: 680-31970		Instrument ID:	LEEMAN1
Preparation:	7471A	Prep Batch: 680-31625		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	1.08 g
Date Analyzed:	12/22/2005 0747			Final Weight/Volume:	50 mL
Date Prepared:	12/20/2005 1218				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.14		0.0081	0.041

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Analytical Data

Client: Spectra Tech

Job Number: 680-11658-1
Sdg Number: SA0C02

Client Sample ID: 009M000402

Lab Sample ID:	680-11658-15	Date Sampled:	12/14/2005 1055
Client Matrix:	Solid % Moisture: 63.2	Date Received:	12/15/2005 0936

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method:	6010B	Analysis Batch: 680-32369		Instrument ID:	ICP/AES
Preparation:	3050B	Prep Batch: 680-31189		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	0.51 g
Date Analyzed:	12/28/2005 0703			Final Weight/Volume:	50 mL
Date Prepared:	12/16/2005 0838				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Silver		2.7	U	0.26	2.7
Aluminum		14000		12	53
Arsenic		7.0		1.8	2.7
Barium		37		0.80	2.7
Beryllium		0.64	J	0.045	1.1
Calcium		20000		6.4	130
Cadmium		1.6		0.59	1.3
Cobalt		3.9		0.45	2.7
Chromium		160	B	0.35	2.7
Copper		54		0.45	5.3
Iron		15000		11	13
Potassium		1900	B	3.5	270
Magnesium		4900		3.2	130
Manganese		100		0.56	2.7
Sodium		8700	B	130	270
Nickel		19		0.69	11
Lead		71		0.56	1.3
Antimony		5.3	U	1.2	5.3
Selenium		6.7	U	2.4	6.7
Thallium		6.7	U	3.5	6.7
Vanadium		32		0.37	2.7
Zinc		230		2.0	5.3

7471A Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Method:	7471A	Analysis Batch: 680-31970		Instrument ID:	LEEMAN1
Preparation:	7471A	Prep Batch: 680-31625		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	1.04 g
Date Analyzed:	12/22/2005 0750			Final Weight/Volume:	50 mL
Date Prepared:	12/20/2005 1218				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.15		0.010	0.052

General Chemistry

Client Sample ID: **BSLM000101**

Lab Sample ID: 680-11658-1
Client Matrix: Solid

Date Sampled: 12/13/2005 1058
Date Received: 12/15/2005 0936

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	65		%	1.0	1.0	1.0	160.3
	Anly Batch: 680-31186	Date Analyzed	12/16/2005 0832				
Percent Solids	35		%	1.0	1.0	1.0	160.3
	Anly Batch: 680-31186	Date Analyzed	12/16/2005 0832				

Client Sample ID: **BSLM000201**

Lab Sample ID: 680-11658-2
Client Matrix: Solid

Date Sampled: 12/13/2005 1110
Date Received: 12/15/2005 0936

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	73		%	1.0	1.0	1.0	160.3
	Anly Batch: 680-31186	Date Analyzed	12/16/2005 0832				
Percent Solids	27		%	1.0	1.0	1.0	160.3
	Anly Batch: 680-31186	Date Analyzed	12/16/2005 0832				

Client Sample ID: **BSLM000901**

Lab Sample ID: 680-11658-3
Client Matrix: Solid

Date Sampled: 12/13/2005 1132
Date Received: 12/15/2005 0936

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	57		%	1.0	1.0	1.0	160.3
	Anly Batch: 680-31186	Date Analyzed	12/16/2005 0832				
Percent Solids	44		%	1.0	1.0	1.0	160.3
	Anly Batch: 680-31186	Date Analyzed	12/16/2005 0832				

Client Sample ID: **054M000102**

Lab Sample ID: 680-11658-4
Client Matrix: Solid

Date Sampled: 12/13/2005 1158
Date Received: 12/15/2005 0936

Client: Spectra Tech

Job Number: 680-11658-1
Sdg Number: SA0C02

General Chemistry

Client Sample ID: 054M000102

Lab Sample ID: 680-11658-4
Client Matrix: Solid

Date Sampled: 12/13/2005 1158
Date Received: 12/15/2005 0936

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	63		%	1.0	1.0	1.0	160.3
	Anly Batch: 680-31186	Date Analyzed	12/16/2005 0832				
Percent Solids	37		%	1.0	1.0	1.0	160.3
	Anly Batch: 680-31186	Date Analyzed	12/16/2005 0832				

Client Sample ID: 556M000702

Lab Sample ID: 680-11658-5
Client Matrix: Solid

Date Sampled: 12/13/2005 1212
Date Received: 12/15/2005 0936

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	80		%	1.0	1.0	1.0	160.3
	Anly Batch: 680-31186	Date Analyzed	12/16/2005 0832				
Percent Solids	21		%	1.0	1.0	1.0	160.3
	Anly Batch: 680-31186	Date Analyzed	12/16/2005 0832				

Client Sample ID: 556M000502

Lab Sample ID: 680-11658-6
Client Matrix: Solid

Date Sampled: 12/13/2005 1225
Date Received: 12/15/2005 0936

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	82		%	1.0	1.0	1.0	160.3
	Anly Batch: 680-31186	Date Analyzed	12/16/2005 0832				
Percent Solids	18		%	1.0	1.0	1.0	160.3
	Anly Batch: 680-31186	Date Analyzed	12/16/2005 0832				

Client Sample ID: BSLM000401

Lab Sample ID: 680-11658-7
Client Matrix: Solid

Date Sampled: 12/13/2005 1238
Date Received: 12/15/2005 0936

Client: Spectra Tech

Job Number: 680-11658-1
Sdg Number: SA0C02

General Chemistry

Client Sample ID: **BSLM000401**

Lab Sample ID: 680-11658-7
Client Matrix: Solid

Date Sampled: 12/13/2005 1238
Date Received: 12/15/2005 0936

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	31		%	1.0	1.0	1.0	160.3
	Anly Batch: 680-31186	Date Analyzed	12/16/2005 0832				
Percent Solids	69		%	1.0	1.0	1.0	160.3
	Anly Batch: 680-31186	Date Analyzed	12/16/2005 0832				

Client Sample ID: **BSLM000301**

Lab Sample ID: 680-11658-8
Client Matrix: Solid

Date Sampled: 12/13/2005 1246
Date Received: 12/15/2005 0936

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	46		%	1.0	1.0	1.0	160.3
	Anly Batch: 680-31186	Date Analyzed	12/16/2005 0832				
Percent Solids	54		%	1.0	1.0	1.0	160.3
	Anly Batch: 680-31186	Date Analyzed	12/16/2005 0832				

Client Sample ID: **BSLM001001**

Lab Sample ID: 680-11658-9
Client Matrix: Solid

Date Sampled: 12/13/2005 1315
Date Received: 12/15/2005 0936

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	33		%	1.0	1.0	1.0	160.3
	Anly Batch: 680-31186	Date Analyzed	12/16/2005 0832				
Percent Solids	67		%	1.0	1.0	1.0	160.3
	Anly Batch: 680-31186	Date Analyzed	12/16/2005 0832				

Client Sample ID: **BSLM000801**

Lab Sample ID: 680-11658-10
Client Matrix: Solid

Date Sampled: 12/13/2005 1340
Date Received: 12/15/2005 0936

General Chemistry

Client Sample ID: **BSLM000801**

Lab Sample ID: 680-11658-10
Client Matrix: Solid

Date Sampled: 12/13/2005 1340
Date Received: 12/15/2005 0936

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	53		%	1.0	1.0	1.0	160.3
	Anly Batch: 680-31186	Date Analyzed	12/16/2005 0832				
Percent Solids	47		%	1.0	1.0	1.0	160.3
	Anly Batch: 680-31186	Date Analyzed	12/16/2005 0832				

Client Sample ID: **BSLM000501**

Lab Sample ID: 680-11658-11
Client Matrix: Solid

Date Sampled: 12/13/2005 1408
Date Received: 12/15/2005 0936

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	41		%	1.0	1.0	1.0	160.3
	Anly Batch: 680-31186	Date Analyzed	12/16/2005 0832				
Percent Solids	59		%	1.0	1.0	1.0	160.3
	Anly Batch: 680-31186	Date Analyzed	12/16/2005 0832				

Client Sample ID: **BSLM000701**

Lab Sample ID: 680-11658-12
Client Matrix: Solid

Date Sampled: 12/13/2005 1434
Date Received: 12/15/2005 0936

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	41		%	1.0	1.0	1.0	160.3
	Anly Batch: 680-31186	Date Analyzed	12/16/2005 0832				
Percent Solids	60		%	1.0	1.0	1.0	160.3
	Anly Batch: 680-31186	Date Analyzed	12/16/2005 0832				

Client Sample ID: **BSLM000601**

Lab Sample ID: 680-11658-13
Client Matrix: Solid

Date Sampled: 12/13/2005 1450
Date Received: 12/15/2005 0936

Client: Spectra Tech

Job Number: 680-11658-1
Sdg Number: SA0C02

General Chemistry

Client Sample ID: **BSLM000601**

Lab Sample ID: 680-11658-13
Client Matrix: Solid

Date Sampled: 12/13/2005 1450
Date Received: 12/15/2005 0936

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	38		%	1.0	1.0	1.0	160.3
	Anly Batch: 680-31186	Date Analyzed	12/16/2005 0832				
Percent Solids	62		%	1.0	1.0	1.0	160.3
	Anly Batch: 680-31186	Date Analyzed	12/16/2005 0832				

Client Sample ID: **NOIM000402**

Lab Sample ID: 680-11658-14
Client Matrix: Solid

Date Sampled: 12/13/2005 1609
Date Received: 12/15/2005 0936

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	54		%	1.0	1.0	1.0	160.3
	Anly Batch: 680-31186	Date Analyzed	12/16/2005 0832				
Percent Solids	46		%	1.0	1.0	1.0	160.3
	Anly Batch: 680-31186	Date Analyzed	12/16/2005 0832				

Client Sample ID: **009M000402**

Lab Sample ID: 680-11658-15
Client Matrix: Solid

Date Sampled: 12/14/2005 1055
Date Received: 12/15/2005 0936

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	63		%	1.0	1.0	1.0	160.3
	Anly Batch: 680-31186	Date Analyzed	12/16/2005 0832				
Percent Solids	37		%	1.0	1.0	1.0	160.3
	Anly Batch: 680-31186	Date Analyzed	12/16/2005 0832				

DATA REPORTING QUALIFIERS

Client: Spectra Tech

Job Number: 680-11658-1
Sdg Number: SA0C02

Lab Section	Qualifier	Description
GC/MS Semi VOA		
	U	Analyte was not detected at or above the reporting limit.
	*	LCS, LCSD, MS, MSD, MD, or Surrogate exceeds the control limits
	N	MS, MSD: Spike recovery exceeds upper or lower control limits.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
GC Semi VOA		
	U	Analyte was not detected at or above the reporting limit.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
	D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution will be flagged with a D.
	P	The lower of the two values is reported when the % difference between the results of two GC columns is greater than 40%
Metals		
	U	Analyte was not detected at or above the reporting limit.
	B	Compound was found in the blank and sample.
	N	MS, MSD: Spike recovery exceeds upper or lower control limits.
	4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Client: Spectra Tech

Job Number: 680-11658-1
Sdg Number: SA0C02

QC Association Summary

Lab Sample ID	Client Sample ID	Client Matrix	Method	Prep Batch
GC/MS Semi VOA				
Prep Batch: 680-32028				
LCS 680-32028/17-A	Lab Control Spike	Solid	3550B	
MB 680-32028/16-A	Method Blank	Solid	3550B	
680-11658-1	BSLM000101	Solid	3550B	
680-11658-2	BSLM000201	Solid	3550B	
680-11658-2MS	Matrix Spike	Solid	3550B	
680-11658-2MSD	Matrix Spike Duplicate	Solid	3550B	
680-11658-3	BSLM000901	Solid	3550B	
680-11658-4	054M000102	Solid	3550B	
680-11658-5	556M000702	Solid	3550B	
680-11658-6	556M000502	Solid	3550B	
680-11658-7	BSLM000401	Solid	3550B	
680-11658-8	BSLM000301	Solid	3550B	
680-11658-9	BSLM001001	Solid	3550B	
680-11658-10	BSLM000801	Solid	3550B	
680-11658-11	BSLM000501	Solid	3550B	
680-11658-12	BSLM000701	Solid	3550B	
680-11658-13	BSLM000601	Solid	3550B	
680-11658-14	NOIM000402	Solid	3550B	
680-11658-15	009M000402	Solid	3550B	
Analysis Batch:680-32923				
LCS 680-32028/17-A	Lab Control Spike	Solid	8270C	680-32028
MB 680-32028/16-A	Method Blank	Solid	8270C	680-32028
680-11658-1	BSLM000101	Solid	8270C	680-32028
680-11658-2	BSLM000201	Solid	8270C	680-32028
680-11658-2MS	Matrix Spike	Solid	8270C	680-32028
680-11658-2MSD	Matrix Spike Duplicate	Solid	8270C	680-32028
680-11658-4	054M000102	Solid	8270C	680-32028
680-11658-5	556M000702	Solid	8270C	680-32028
680-11658-6	556M000502	Solid	8270C	680-32028
680-11658-7	BSLM000401	Solid	8270C	680-32028
680-11658-8	BSLM000301	Solid	8270C	680-32028
680-11658-9	BSLM001001	Solid	8270C	680-32028
680-11658-12	BSLM000701	Solid	8270C	680-32028
680-11658-13	BSLM000601	Solid	8270C	680-32028
680-11658-14	NOIM000402	Solid	8270C	680-32028
680-11658-15	009M000402	Solid	8270C	680-32028
Analysis Batch:680-32997				
680-11658-3	BSLM000901	Solid	8270C	680-32028
680-11658-10	BSLM000801	Solid	8270C	680-32028
680-11658-11	BSLM000501	Solid	8270C	680-32028

Client: Spectra Tech

Job Number: 680-11658-1
Sdg Number: SA0C02

QC Association Summary

Lab Sample ID	Client Sample ID	Client Matrix	Method	Prep Batch
GC Semi VOA				
Prep Batch: 680-32022				
LCS 680-32022/19-A	Lab Control Spike	Solid	3550B	
LCS 680-32022/24-A	Lab Control Spike	Solid	3550B	
MB 680-32022/18-A	Method Blank	Solid	3550B	
680-11658-1	BSLM000101	Solid	3550B	
680-11658-2	BSLM000201	Solid	3550B	
680-11658-3	BSLM000901	Solid	3550B	
680-11658-4	054M000102	Solid	3550B	
680-11658-5	556M000702	Solid	3550B	
680-11658-6	556M000502	Solid	3550B	
680-11658-7	BSLM000401	Solid	3550B	
680-11658-8	BSLM000301	Solid	3550B	
680-11658-9	BSLM001001	Solid	3550B	
680-11658-10	BSLM000801	Solid	3550B	
680-11658-11	BSLM000501	Solid	3550B	
680-11658-12	BSLM000701	Solid	3550B	
680-11658-13	BSLM000601	Solid	3550B	
680-11658-14	NOIM000402	Solid	3550B	
680-11658-15	009M000402	Solid	3550B	
Analysis Batch:680-33041				
LCS 680-32022/19-A	Lab Control Spike	Solid	8081A_8082	680-32022
LCS 680-32022/24-A	Lab Control Spike	Solid	8081A_8082	680-32022
MB 680-32022/18-A	Method Blank	Solid	8081A_8082	680-32022
680-11658-1	BSLM000101	Solid	8081A_8082	680-32022
680-11658-2	BSLM000201	Solid	8081A_8082	680-32022
680-11658-3	BSLM000901	Solid	8081A_8082	680-32022
680-11658-4	054M000102	Solid	8081A_8082	680-32022
680-11658-5	556M000702	Solid	8081A_8082	680-32022
680-11658-6	556M000502	Solid	8081A_8082	680-32022
680-11658-7	BSLM000401	Solid	8081A_8082	680-32022
680-11658-8	BSLM000301	Solid	8081A_8082	680-32022
680-11658-9	BSLM001001	Solid	8081A_8082	680-32022
680-11658-10	BSLM000801	Solid	8081A_8082	680-32022
680-11658-11	BSLM000501	Solid	8081A_8082	680-32022
680-11658-12	BSLM000701	Solid	8081A_8082	680-32022
680-11658-13	BSLM000601	Solid	8081A_8082	680-32022
680-11658-14	NOIM000402	Solid	8081A_8082	680-32022
680-11658-15	009M000402	Solid	8081A_8082	680-32022

Client: Spectra Tech

Job Number: 680-11658-1
Sdg Number: SA0C02

QC Association Summary

Lab Sample ID	Client Sample ID	Client Matrix	Method	Prep Batch
Metals				
Prep Batch: 680-31189				
LCS 680-31189/17-A	Lab Control Spike	Solid	3050B	
MB 680-31189/16-A	Method Blank	Solid	3050B	
680-11658-1	BSLM000101	Solid	3050B	
680-11658-1MS	Matrix Spike	Solid	3050B	
680-11658-1MSD	Matrix Spike Duplicate	Solid	3050B	
680-11658-2	BSLM000201	Solid	3050B	
680-11658-3	BSLM000901	Solid	3050B	
680-11658-4	054M000102	Solid	3050B	
680-11658-5	556M000702	Solid	3050B	
680-11658-6	556M000502	Solid	3050B	
680-11658-7	BSLM000401	Solid	3050B	
680-11658-8	BSLM000301	Solid	3050B	
680-11658-9	BSLM001001	Solid	3050B	
680-11658-10	BSLM000801	Solid	3050B	
680-11658-11	BSLM000501	Solid	3050B	
680-11658-12	BSLM000701	Solid	3050B	
680-11658-13	BSLM000601	Solid	3050B	
680-11658-14	NOIM000402	Solid	3050B	
680-11658-15	009M000402	Solid	3050B	
Prep Batch: 680-31625				
LCS 680-31625/24-A	Lab Control Spike	Solid	7471A	
MB 680-31625/23-A	Method Blank	Solid	7471A	
680-11658-1	BSLM000101	Solid	7471A	
680-11658-2	BSLM000201	Solid	7471A	
680-11658-3	BSLM000901	Solid	7471A	
680-11658-4	054M000102	Solid	7471A	
680-11658-5	556M000702	Solid	7471A	
680-11658-6	556M000502	Solid	7471A	
680-11658-7	BSLM000401	Solid	7471A	
680-11658-8	BSLM000301	Solid	7471A	
680-11658-9	BSLM001001	Solid	7471A	
680-11658-10	BSLM000801	Solid	7471A	
680-11658-11	BSLM000501	Solid	7471A	
680-11658-12	BSLM000701	Solid	7471A	
680-11658-13	BSLM000601	Solid	7471A	
680-11658-14	NOIM000402	Solid	7471A	
680-11658-15	009M000402	Solid	7471A	

Client: Spectra Tech

Job Number: 680-11658-1
Sdg Number: SA0C02

QC Association Summary

Lab Sample ID	Client Sample ID	Client Matrix	Method	Prep Batch
Metals				
Analysis Batch:680-32369				
LCS 680-31189/17-A	Lab Control Spike	Solid	6010B	680-31189
MB 680-31189/16-A	Method Blank	Solid	6010B	680-31189
680-11658-1	BSLM000101	Solid	6010B	680-31189
680-11658-1MS	Matrix Spike	Solid	6010B	680-31189
680-11658-1MSD	Matrix Spike Duplicate	Solid	6010B	680-31189
680-11658-2	BSLM000201	Solid	6010B	680-31189
680-11658-3	BSLM000901	Solid	6010B	680-31189
680-11658-4	054M000102	Solid	6010B	680-31189
680-11658-5	556M000702	Solid	6010B	680-31189
680-11658-6	556M000502	Solid	6010B	680-31189
680-11658-7	BSLM000401	Solid	6010B	680-31189
680-11658-8	BSLM000301	Solid	6010B	680-31189
680-11658-9	BSLM001001	Solid	6010B	680-31189
680-11658-10	BSLM000801	Solid	6010B	680-31189
680-11658-11	BSLM000501	Solid	6010B	680-31189
680-11658-12	BSLM000701	Solid	6010B	680-31189
680-11658-13	BSLM000601	Solid	6010B	680-31189
680-11658-14	NOIM000402	Solid	6010B	680-31189
680-11658-15	009M000402	Solid	6010B	680-31189
Analysis Batch:680-31970				
LCS 680-31625/24-A	Lab Control Spike	Solid	7471A	680-31625
MB 680-31625/23-A	Method Blank	Solid	7471A	680-31625
680-11658-1	BSLM000101	Solid	7471A	680-31625
680-11658-2	BSLM000201	Solid	7471A	680-31625
680-11658-3	BSLM000901	Solid	7471A	680-31625
680-11658-4	054M000102	Solid	7471A	680-31625
680-11658-5	556M000702	Solid	7471A	680-31625
680-11658-6	556M000502	Solid	7471A	680-31625
680-11658-7	BSLM000401	Solid	7471A	680-31625
680-11658-8	BSLM000301	Solid	7471A	680-31625
680-11658-9	BSLM001001	Solid	7471A	680-31625
680-11658-10	BSLM000801	Solid	7471A	680-31625
680-11658-11	BSLM000501	Solid	7471A	680-31625
680-11658-12	BSLM000701	Solid	7471A	680-31625
680-11658-13	BSLM000601	Solid	7471A	680-31625
680-11658-14	NOIM000402	Solid	7471A	680-31625
680-11658-15	009M000402	Solid	7471A	680-31625

Quality Control Results

Client: Spectra Tech

Job Number: 680-11658-1
Sdg Number: SA0C02

QC Association Summary

Lab Sample ID	Client Sample ID	Client Matrix	Method	Prep Batch
General Chemistry				
Analysis Batch:680-31186				
680-11658-1	BSLM000101	Solid	160.3	
680-11658-2	BSLM000201	Solid	160.3	
680-11658-3	BSLM000901	Solid	160.3	
680-11658-4	054M000102	Solid	160.3	
680-11658-5	556M000702	Solid	160.3	
680-11658-6	556M000502	Solid	160.3	
680-11658-7	BSLM000401	Solid	160.3	
680-11658-8	BSLM000301	Solid	160.3	
680-11658-9	BSLM001001	Solid	160.3	
680-11658-10	BSLM000801	Solid	160.3	
680-11658-11	BSLM000501	Solid	160.3	
680-11658-12	BSLM000701	Solid	160.3	
680-11658-13	BSLM000601	Solid	160.3	
680-11658-14	NOIM000402	Solid	160.3	
680-11658-15	009M000402	Solid	160.3	

Quality Control Results

Client: Spectra Tech

Job Number: 680-11658-1
Sdg Number: SA0C02

Surrogate Recovery Report

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Client Matrix: Solid

Lab Sample ID	Client Sample	(2FP) (%Rec)	(FBP) (%Rec)	(NBZ) (%Rec)	(PHL) (%Rec)	(TBP) (%Rec)	(TPH) (%Rec)
680-11658-2MS	BSLM000201	51	54	51	54	70	66
680-11658-2MSD	BSLM000201	45	47	45	48	62	58
LCS 680-32028/17-A	LCS	65	69	68	67	86	82
MB 680-32028/16-A	MB	67	68	65	66	68	79
680-11658-1	BSLM000101	52	51	50	53	68	59
680-11658-2	BSLM000201	52	53	51	56	71	64
680-11658-3	BSLM000901	56	57	54	56	71	69
680-11658-4	054M000102	48	48	47	50	62	61
680-11658-5	556M000702	54	54	53	57	75	61
680-11658-6	556M000502	50	50	49	51	66	61
680-11658-7	BSLM000401	53	54	51	54	69	67
680-11658-8	BSLM000301	57	53	55	58	69	67
680-11658-9	BSLM001001	43	45	42	46	61	61
680-11658-10	BSLM000801	50	48	45	50	61	64
680-11658-11	BSLM000501	51	49	49	53	70	70
680-11658-12	BSLM000701	43	47	45	44	65	66
680-11658-13	BSLM000601	51	53	51	53	67	69
680-11658-14	NOIM000402	54	56	53	55	71	68
680-11658-15	009M000402	45	46	43	47	61	58

Surrogate		Acceptance Limits
(2FP)	2-Fluorophenol	36 - 101
(FBP)	2-Fluorobiphenyl	38 - 104
(NBZ)	Nitrobenzene-d5	33 - 94
(PHL)	Phenol-d5	38 - 102
(TBP)	2,4,6-Tribromophenol	27 - 124
(TPH)	Terphenyl-d14	40 - 129

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Quality Control Results

Client: Spectra Tech

Job Number: 680-11658-1
Sdg Number: SA0C02

Surrogate Recovery Report

8081A 8082 Organochlorine Pesticides & Polychlorinated Biphenyls by Gas Chromatography

Client Matrix: Solid

Lab Sample ID	Client Sample	(DCB 1) (%Rec)	(TCX 1) (%Rec)
LCS 680-32022/19-A	LCS	98	93
MB 680-32022/18-A	MB	88	76
680-11658-1	BSLM000101	0 D	0 D
680-11658-2	BSLM000201	0 D	0 D
680-11658-3	BSLM000901	0 D	0 D
680-11658-4	054M000102	0 D	0 D
680-11658-5	556M000702	0 D	0 D
680-11658-6	556M000502	0 D	0 D
680-11658-7	BSLM000401	0 D	0 D
680-11658-8	BSLM000301	0 D	0 D
680-11658-9	BSLM001001	0 D	0 D
680-11658-10	BSLM000801	0 D	0 D
680-11658-11	BSLM000501	0 D	0 D
680-11658-12	BSLM000701	0 D	0 D
680-11658-13	BSLM000601	0 D	0 D
680-11658-14	NOIM000402	0 D	0 D
680-11658-15	009M000402	0 D	0 D

Surrogate		Acceptance Limits
(DCB 1)	DCB Decachlorobiphenyl	30 - 150
(TCX 1)	Tetrachloro-m-xylene	30 - 150

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Quality Control Results

Client: Spectra Tech

Job Number: 680-11658-1
Sdg Number: SA0C02

Method Blank - Batch: 680-32028

Method: 8270C
Preparation: 3550B

Lab Sample ID: MB 680-32028/16-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 01/04/2006 1102
Date Prepared: 12/23/2005 0815

Analysis Batch: 680-32923
Prep Batch: 680-32028
Units: ug/Kg

Instrument ID: GC/MS SemiVolatiles - T
Lab File ID: t1750.d
Initial Weight/Volume: 30.00 g
Final Weight/Volume: 1.0 mL
Injection Volume:

Analyte	Result	Qual	MDL	RL
Phenol	330	U	30	330
Bis(2-chloroethyl)ether	330	U	28	330
2-Chlorophenol	330	U	27	330
1,3-Dichlorobenzene	330	U	26	330
1,4-Dichlorobenzene	330	U	22	330
1,2-Dichlorobenzene	330	U	23	330
2-Methylphenol	330	U	30	330
N-Nitrosodi-n-propylamine	330	U	28	330
Hexachloroethane	330	U	20	330
Nitrobenzene	330	U	35	330
Isophorone	330	U	22	330
2-Nitrophenol	330	U	20	330
2,4-Dimethylphenol	330	U	35	330
Bis(2-chloroethoxy)methane	330	U	24	330
2,4-Dichlorophenol	330	U	23	330
1,2,4-Trichlorobenzene	330	U	21	330
Naphthalene	330	U	19	330
4-Chloroaniline	660	U	26	660
Hexachlorobutadiene	330	U	20	330
4-Chloro-3-methylphenol	330	U	34	330
2-Methylnaphthalene	330	U	24	330
Hexachlorocyclopentadiene	330	U	83	330
2,4,6-Trichlorophenol	330	U	20	330
2,4,5-Trichlorophenol	330	U	32	330
2-Chloronaphthalene	330	U	24	330
2-Nitroaniline	1700	U	23	1700
Dimethyl phthalate	330	U	19	330
Acenaphthylene	330	U	17	330
3-Nitroaniline	1700	U	33	1700
Acenaphthene	330	U	19	330
2,4-Dinitrophenol	1700	U	170	1700
4-Nitrophenol	1700	U	210	1700
Dibenzofuran	330	U	19	330
2,4-Dinitrotoluene	330	U	19	330
2,6-Dinitrotoluene	330	U	33	330
3 & 4 Methylphenol	330	U	29	330
Diethyl phthalate	330	U	22	330
4-Chlorophenyl phenyl ether	330	U	19	330
Fluorene	330	U	22	330
4-Nitroaniline	1700	U	17	1700
4,6-Dinitro-2-methylphenol	1700	U	200	1700

Calculations are performed before rounding to avoid round-off errors in calculated results.

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Quality Control Results

Client: Spectra Tech

Job Number: 680-11658-1
Sdg Number: SA0C02

Method Blank - Batch: 680-32028

Method: 8270C
Preparation: 3550B

Lab Sample ID: MB 680-32028/16-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 01/04/2006 1102
Date Prepared: 12/23/2005 0815

Analysis Batch: 680-32923
Prep Batch: 680-32028
Units: ug/Kg

Instrument ID: GC/MS SemiVolatiles - T
Lab File ID: t1750.d
Initial Weight/Volume: 30.00 g
Final Weight/Volume: 1.0 mL
Injection Volume:

Analyte	Result	Qual	MDL	RL
N-Nitrosodiphenylamine	330	U	23	330
4-Bromophenyl phenyl ether	330	U	31	330
Hexachlorobenzene	330	U	26	330
Pentachlorophenol	1700	U	83	1700
Phenanthrene	330	U	29	330
Anthracene	330	U	23	330
Di-n-butyl phthalate	330	U	28	330
Fluoranthene	330	U	26	330
Pyrene	330	U	20	330
Butyl benzyl phthalate	330	U	27	330
3,3'-Dichlorobenzidine	660	U	30	660
Benzo[a]anthracene	330	U	31	330
Bis(2-ethylhexyl) phthalate	330	U	38	330
Chrysene	330	U	25	330
Di-n-octyl phthalate	330	U	31	330
Benzo[b]fluoranthene	330	U	26	330
Benzo[k]fluoranthene	330	U	36	330
Benzo[a]pyrene	330	U	19	330
Indeno[1,2,3-cd]pyrene	330	U	26	330
Dibenz(a,h)anthracene	330	U	24	330
Benzo[g,h,i]perylene	330	U	23	330
Carbazole	330	U	28	330
bis(chloroisopropyl) ether	330	U	35	330

Surrogate	% Rec	Acceptance Limits
Phenol-d5	66	38 - 102
2-Fluorophenol	67	36 - 101
2,4,6-Tribromophenol	68	27 - 124
Nitrobenzene-d5	65	33 - 94
2-Fluorobiphenyl	68	38 - 104
Terphenyl-d14	79	40 - 129

Calculations are performed before rounding to avoid round-off errors in calculated results.

SEVERN TRENT STL®

Quality Control Results

Client: Spectra Tech

Job Number: 680-11658-1
Sdg Number: SA0C02

Laboratory Control Sample - Batch: 680-32028

Method: 8270C
Preparation: 3550B

Lab Sample ID: LCS 680-32028/17-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 01/04/2006 1750
Date Prepared: 12/23/2005 0815

Analysis Batch: 680-32923
Prep Batch: 680-32028
Units: ug/Kg

Instrument ID: GC/MS SemiVolatiles - T
Lab File ID: t1766.d
Initial Weight/Volume: 30.00 g
Final Weight/Volume: 1.0 mL
Injection Volume:

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Phenol	3330	2200	66	34 - 98	
Bis(2-chloroethyl)ether	3330	2100	63	30 - 98	
2-Chlorophenol	3330	2200	65	36 - 99	
1,3-Dichlorobenzene	3330	2000	60	34 - 90	
1,4-Dichlorobenzene	3330	2000	59	32 - 90	
1,2-Dichlorobenzene	3330	2100	62	35 - 93	
2-Methylphenol	3330	2300	69	38 - 107	
N-Nitrosodi-n-propylamine	3330	2300	69	24 - 108	
Hexachloroethane	3330	1700	51	31 - 88	
Nitrobenzene	3330	2200	67	33 - 106	
Isophorone	3330	2400	72	37 - 106	
2-Nitrophenol	3330	2300	68	38 - 104	
2,4-Dimethylphenol	3330	2400	73	40 - 112	
Bis(2-chloroethoxy)methane	3330	2400	72	38 - 106	
2,4-Dichlorophenol	3330	2400	73	43 - 108	
1,2,4-Trichlorobenzene	3330	2200	67	36 - 98	
Naphthalene	3330	2200	67	34 - 97	
4-Chloroaniline	3330	1800	55	7 - 103	
Hexachlorobutadiene	3330	2600	77	42 - 105	
4-Chloro-3-methylphenol	3330	2700	81	39 - 113	
2-Methylnaphthalene	3330	2400	72	39 - 104	
Hexachlorocyclopentadiene	3330	520	16	20 - 109	*
2,4,6-Trichlorophenol	3330	2500	75	44 - 113	
2,4,5-Trichlorophenol	3330	2600	78	46 - 116	
2-Chloronaphthalene	3330	2300	69	41 - 110	
2-Nitroaniline	3330	2700	80	38 - 124	
Dimethyl phthalate	3330	2600	77	43 - 114	
Acenaphthylene	3330	2500	75	41 - 112	
3-Nitroaniline	3330	2400	71	19 - 118	
Acenaphthene	3330	2400	72	36 - 108	
2,4-Dinitrophenol	3330	1200	37	1 - 131	J
4-Nitrophenol	3330	2800	83	21 - 132	
Dibenzofuran	3330	2500	74	44 - 108	
2,4-Dinitrotoluene	3330	2700	81	32 - 128	
2,6-Dinitrotoluene	3330	2600	79	38 - 128	
3 & 4 Methylphenol	3330	2300	69	37 - 106	
Diethyl phthalate	3330	2600	79	41 - 118	
4-Chlorophenyl phenyl ether	3330	2600	77	42 - 111	
Fluorene	3330	2600	77	37 - 113	
4-Nitroaniline	3330	2600	79	32 - 130	
4,6-Dinitro-2-methylphenol	3330	2200	65	11 - 142	
N-Nitrosodiphenylamine	3330	2600	78	16 - 113	

Calculations are performed before rounding to avoid round-off errors in calculated results.

SEVERN TRENT STL®

Quality Control Results

Client: Spectra Tech

Job Number: 680-11658-1
Sdg Number: SA0C02

Laboratory Control Sample - Batch: 680-32028

Method: 8270C
Preparation: 3550B

Lab Sample ID: LCS 680-32028/17-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 01/04/2006 1750
Date Prepared: 12/23/2005 0815

Analysis Batch: 680-32923
Prep Batch: 680-32028
Units: ug/Kg

Instrument ID: GC/MS SemiVolatiles - T
Lab File ID: t1766.d
Initial Weight/Volume: 30.00 g
Final Weight/Volume: 1.0 mL
Injection Volume:

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
4-Bromophenyl phenyl ether	3330	2300	68	38 - 106	
Hexachlorobenzene	3330	2600	79	46 - 115	
Pentachlorophenol	3330	2200	66	27 - 116	
Phenanthrene	3330	2600	77	47 - 114	
Anthracene	3330	2600	77	46 - 115	
Di-n-butyl phthalate	3330	2700	82	35 - 93	
Fluoranthene	3330	2800	84	41 - 124	
Pyrene	3330	2700	81	36 - 128	
Butyl benzyl phthalate	3330	2900	88	43 - 127	
3,3'-Dichlorobenzidine	3330	2500	76	1 - 118	
Benzo[a]anthracene	3330	2700	80	46 - 116	
Bis(2-ethylhexyl) phthalate	3330	2800	85	25 - 134	
Chrysene	3330	2600	79	46 - 118	
Di-n-octyl phthalate	3330	3100	93	43 - 129	
Benzo[b]fluoranthene	3330	2600	78	35 - 122	
Benzo[k]fluoranthene	3330	2600	78	36 - 124	
Benzo[a]pyrene	3330	2700	80	37 - 120	
Indeno[1,2,3-cd]pyrene	3330	2700	82	36 - 133	
Dibenz(a,h)anthracene	3330	2700	82	41 - 124	
Benzo[g,h,i]perylene	3330	2600	78	41 - 122	
Carbazole	3330	2600	79	47 - 118	
bis(chloroisopropyl) ether	3330	2200	65	16 - 116	

Surrogate	% Rec	Acceptance Limits
Phenol-d5	67	38 - 102
2-Fluorophenol	65	36 - 101
2,4,6-Tribromophenol	86	27 - 124
Nitrobenzene-d5	68	33 - 94
2-Fluorobiphenyl	69	38 - 104
Terphenyl-d14	82	40 - 129

Calculations are performed before rounding to avoid round-off errors in calculated results.

SEVERN TRENT STL®

Quality Control Results

Client: Spectra Tech

Job Number: 680-11658-1
Sdg Number: SA0C02

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-32028

Method: 8270C
Preparation: 3550B

MS Lab Sample ID:	680-11658-2	Analysis Batch: 680-32923	Instrument ID: GC/MS SemiVolatiles - T
Client Matrix:	Solid	Prep Batch: 680-32028	Lab File ID: t1767.d
Dilution:	1.0		Initial Weight/Volume: 30.00 g
Date Analyzed:	01/04/2006 1815		Final Weight/Volume: 1.0 mL
Date Prepared:	12/23/2005 0815		Injection Volume:

MSD Lab Sample ID:	680-11658-2	Analysis Batch: 680-32923	Instrument ID: GC/MS SemiVolatiles - T
Client Matrix:	Solid	Prep Batch: 680-32028	Lab File ID: t1768.d
Dilution:	1.0		Initial Weight/Volume: 30.05 g
Date Analyzed:	01/04/2006 1841		Final Weight/Volume: 1.0 mL
Date Prepared:	12/23/2005 0815		Injection Volume:

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Phenol	50	46	34 - 98	10	50		
Bis(2-chloroethyl)ether	47	42	30 - 98	13	50		
2-Chlorophenol	51	45	36 - 99	14	50		
1,3-Dichlorobenzene	40	35	34 - 90	14	50		
1,4-Dichlorobenzene	41	36	32 - 90	14	50		
1,2-Dichlorobenzene	44	38	35 - 93	15	50		
2-Methylphenol	54	48	38 - 107	11	50		
N-Nitrosodi-n-propylamine	53	48	24 - 108	11	50		
Hexachloroethane	28	27	31 - 88	4	50	N	N
Nitrobenzene	50	44	33 - 106	12	50		
Isophorone	55	48	37 - 106	13	50		
2-Nitrophenol	50	44	38 - 104	11	50		
2,4-Dimethylphenol	59	50	40 - 112	15	50		
Bis(2-chloroethoxy)methane	54	48	38 - 106	13	50		
2,4-Dichlorophenol	58	51	43 - 108	13	50		
1,2,4-Trichlorobenzene	49	43	36 - 98	13	50		
Naphthalene	50	45	34 - 97	12	50		
4-Chloroaniline	50	45	7 - 103	11	50		
Hexachlorobutadiene	54	47	42 - 105	14	50		
4-Chloro-3-methylphenol	64	56	39 - 113	13	50		
2-Methylnaphthalene	54	48	39 - 104	12	50		
Hexachlorocyclopentadiene	0	0	20 - 109	NC	50	U N	U N
2,4,6-Trichlorophenol	60	54	44 - 113	12	50		
2,4,5-Trichlorophenol	63	56	46 - 116	12	50		
2-Chloronaphthalene	54	47	41 - 110	14	50		
2-Nitroaniline	64	58	38 - 124	11	50		
Dimethyl phthalate	61	55	43 - 114	10	50		
Acenaphthylene	59	51	41 - 112	14	50		
3-Nitroaniline	60	56	19 - 118	7	50		
Acenaphthene	57	50	36 - 108	12	50		

Calculations are performed before rounding to avoid round-off errors in calculated results.

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Quality Control Results

Client: Spectra Tech

Job Number: 680-11658-1
Sdg Number: SA0C02

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-32028

Method: 8270C
Preparation: 3550B

MS Lab Sample ID:	680-11658-2	Analysis Batch: 680-32923	Instrument ID: GC/MS SemiVolatiles - T
Client Matrix:	Solid	Prep Batch: 680-32028	Lab File ID: t1767.d
Dilution:	1.0		Initial Weight/Volume: 30.00 g
Date Analyzed:	01/04/2006 1815		Final Weight/Volume: 1.0 mL
Date Prepared:	12/23/2005 0815		Injection Volume:

MSD Lab Sample ID:	680-11658-2	Analysis Batch: 680-32923	Instrument ID: GC/MS SemiVolatiles - T
Client Matrix:	Solid	Prep Batch: 680-32028	Lab File ID: t1768.d
Dilution:	1.0		Initial Weight/Volume: 30.05 g
Date Analyzed:	01/04/2006 1841		Final Weight/Volume: 1.0 mL
Date Prepared:	12/23/2005 0815		Injection Volume:

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
2,4-Dinitrophenol	55	51	1 - 131	7	50		
4-Nitrophenol	66	61	21 - 132	8	50		
Dibenzofuran	58	52	44 - 108	11	50		
2,4-Dinitrotoluene	66	59	32 - 128	11	50		
2,6-Dinitrotoluene	63	57	38 - 128	9	50		
3 & 4 Methylphenol	54	49	37 - 106	11	50		
Diethyl phthalate	64	58	41 - 118	11	50		
4-Chlorophenyl phenyl ether	61	53	42 - 111	14	50		
Fluorene	61	54	37 - 113	12	50		
4-Nitroaniline	61	57	32 - 130	7	50		
4,6-Dinitro-2-methylphenol	60	59	11 - 142	2	50		
N-Nitrosodiphenylamine	62	57	16 - 113	8	50		
4-Bromophenyl phenyl ether	54	50	38 - 106	8	50		
Hexachlorobenzene	61	56	46 - 115	8	50		
Pentachlorophenol	62	56	27 - 116	10	50		
Phenanthrene	61	55	47 - 114	10	50		
Anthracene	62	56	46 - 115	10	50		
Di-n-butyl phthalate	64	58	35 - 93	10	50		
Fluoranthene	65	60	41 - 124	8	50		
Pyrene	65	59	36 - 128	10	50		
Butyl benzyl phthalate	70	64	43 - 127	9	50		
3,3'-Dichlorobenzidine	73	67	1 - 118	9	50		
Benzo[a]anthracene	65	58	46 - 116	11	50		
Bis(2-ethylhexyl) phthalate	64	58	25 - 134	11	50		
Chrysene	63	57	46 - 118	10	50		
Di-n-octyl phthalate	70	63	43 - 129	10	50		
Benzo[b]fluoranthene	61	58	35 - 122	5	50		
Benzo[k]fluoranthene	64	52	36 - 124	21	50		
Benzo[a]pyrene	64	56	37 - 120	13	50		
Indeno[1,2,3-cd]pyrene	64	59	36 - 133	9	50		

Calculations are performed before rounding to avoid round-off errors in calculated results.

SEVERN TRENT STL®

Quality Control Results

Client: Spectra Tech

Job Number: 680-11658-1
Sdg Number: SA0C02

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-32028

Method: 8270C
Preparation: 3550B

MS Lab Sample ID:	680-11658-2	Analysis Batch: 680-32923	Instrument ID: GC/MS SemiVolatiles - T
Client Matrix:	Solid	Prep Batch: 680-32028	Lab File ID: t1767.d
Dilution:	1.0		Initial Weight/Volume: 30.00 g
Date Analyzed:	01/04/2006 1815		Final Weight/Volume: 1.0 mL
Date Prepared:	12/23/2005 0815		Injection Volume:

MSD Lab Sample ID:	680-11658-2	Analysis Batch: 680-32923	Instrument ID: GC/MS SemiVolatiles - T
Client Matrix:	Solid	Prep Batch: 680-32028	Lab File ID: t1768.d
Dilution:	1.0		Initial Weight/Volume: 30.05 g
Date Analyzed:	01/04/2006 1841		Final Weight/Volume: 1.0 mL
Date Prepared:	12/23/2005 0815		Injection Volume:

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Dibenz(a,h)anthracene	65	57	41 - 124	14	50		
Benzo[g,h,i]perylene	60	54	41 - 122	10	50		
Carbazole	62	57	47 - 118	8	50		
bis(chloroisopropyl) ether	49	43	16 - 116	11	50		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
Phenol-d5	54	48	38 - 102
2-Fluorophenol	51	45	36 - 101
2,4,6-Tribromophenol	70	62	27 - 124
Nitrobenzene-d5	51	45	33 - 94
2-Fluorobiphenyl	54	47	38 - 104
Terphenyl-d14	66	58	40 - 129

Calculations are performed before rounding to avoid round-off errors in calculated results.

SEVERN TRENT STL®

Quality Control Results

Client: Spectra Tech

Job Number: 680-11658-1
Sdg Number: SA0C02

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 680-32028

Method: 8270C
Preparation: 3550B

MS Lab Sample ID: 680-11658-2
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 01/04/2006 1815
Date Prepared: 12/23/2005 0815

Units: ug/Kg

MSD Lab Sample ID: 680-11658-2
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 01/04/2006 1841
Date Prepared: 12/23/2005 0815

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Phenol	1200	U	12500	12500	6300		5700	
Bis(2-chloroethyl)ether	1200	U	12500	12500	6000		5200	
2-Chlorophenol	1200	U	12500	12500	6400		5600	
1,3-Dichlorobenzene	1200	U	12500	12500	5000		4300	
1,4-Dichlorobenzene	1200	U	12500	12500	5100		4500	
1,2-Dichlorobenzene	1200	U	12500	12500	5500		4700	
2-Methylphenol	1200	U	12500	12500	6800		6000	
N-Nitrosodi-n-propylamine	1200	U	12500	12500	6600		6000	
Hexachloroethane	1200	U	12500	12500	3500	N	3400	N
Nitrobenzene	1200	U	12500	12500	6300		5500	
Isophorone	1200	U	12500	12500	6900		6000	
2-Nitrophenol	1200	U	12500	12500	6200		5600	
2,4-Dimethylphenol	1200	U	12500	12500	7400		6300	
Bis(2-chloroethoxy)methane	1200	U	12500	12500	6800		6000	
2,4-Dichlorophenol	1200	U	12500	12500	7200		6400	
1,2,4-Trichlorobenzene	1200	U	12500	12500	6200		5400	
Naphthalene	1200	U	12500	12500	6300		5600	
4-Chloroaniline	2500	U	12500	12500	6300		5700	
Hexachlorobutadiene	1200	U	12500	12500	6800		5900	
4-Chloro-3-methylphenol	1200	U	12500	12500	8000		7100	
2-Methylnaphthalene	1200	U	12500	12500	6700		5900	
Hexachlorocyclopentadiene	1200	U	12500	12500	1200	U N	1200	U N
2,4,6-Trichlorophenol	1200	U	12500	12500	7600		6700	
2,4,5-Trichlorophenol	1200	U	12500	12500	7800		7000	
2-Chloronaphthalene	1200	U	12500	12500	6800		5900	
2-Nitroaniline	6400	U	12500	12500	8100		7300	
Dimethyl phthalate	1200	U	12500	12500	7600		6900	
Acenaphthylene	1200	U	12500	12500	7400		6400	
3-Nitroaniline	6400	U	12500	12500	7500		6900	
Acenaphthene	1200	U	12500	12500	7100		6300	
2,4-Dinitrophenol	6400	U	12500	12500	6900		6400	
4-Nitrophenol	6400	U	12500	12500	8200		7600	
Dibenzofuran	1200	U	12500	12500	7300		6500	
2,4-Dinitrotoluene	1200	U	12500	12500	8200		7400	
2,6-Dinitrotoluene	1200	U	12500	12500	7900		7200	
3 & 4 Methylphenol	1200	U	12500	12500	6800		6100	
Diethyl phthalate	1200	U	12500	12500	8100		7300	
4-Chlorophenyl phenyl ether	1200	U	12500	12500	7600		6600	
Fluorene	1200	U	12500	12500	7700		6800	

Calculations are performed before rounding to avoid round-off errors in calculated results.

SEVERN TRENT STL®

Quality Control Results

Client: Spectra Tech

Job Number: 680-11658-1
Sdg Number: SA0C02

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 680-32028

Method: 8270C
Preparation: 3550B

MS Lab Sample ID: 680-11658-2
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 01/04/2006 1815
Date Prepared: 12/23/2005 0815

Units: ug/Kg

MSD Lab Sample ID: 680-11658-2
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 01/04/2006 1841
Date Prepared: 12/23/2005 0815

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
4-Nitroaniline	6400	U	12500	12500	7600	7100
4,6-Dinitro-2-methylphenol	6400	U	12500	12500	7600	7400
N-Nitrosodiphenylamine	1200	U	12500	12500	7800	7200
4-Bromophenyl phenyl ether	1200	U	12500	12500	6800	6300
Hexachlorobenzene	1200	U	12500	12500	7700	7100
Pentachlorophenol	6400	U	12500	12500	7700	7000
Phenanthrene	1200	U	12500	12500	7600	6900
Anthracene	1200	U	12500	12500	7800	7000
Di-n-butyl phthalate	1200	U	12500	12500	8100	7300
Fluoranthene	110	J	12500	12500	8300	7600
Pyrene	170	J	12500	12500	8300	7500
Butyl benzyl phthalate	1200	U	12500	12500	8800	8000
3,3'-Dichlorobenzidine	2500	U	12500	12500	9100	8300
Benzo[a]anthracene	1200	U	12500	12500	8100	7300
Bis(2-ethylhexyl) phthalate	170	J	12500	12500	8200	7400
Chrysene	94	J	12500	12500	7900	7200
Di-n-octyl phthalate	1200	U	12500	12500	8700	7900
Benzo[b]fluoranthene	1200	U	12500	12500	7700	7300
Benzo[k]fluoranthene	1200	U	12500	12500	8000	6500
Benzo[a]pyrene	1200	U	12500	12500	8000	7100
Indeno[1,2,3-cd]pyrene	1200	U	12500	12500	8000	7400
Dibenz(a,h)anthracene	1200	U	12500	12500	8200	7100
Benzo[g,h,i]perylene	1200	U	12500	12500	7500	6800
Carbazole	1200	U	12500	12500	7700	7100
bis(chloroisopropyl) ether	1200	U	12500	12500	6100	5400

Calculations are performed before rounding to avoid round-off errors in calculated results.

SEVERN TRENT STL®

Quality Control Results

Client: Spectra Tech

Job Number: 680-11658-1
Sdg Number: SA0C02

Method Blank - Batch: 680-32022

Method: 8081A_8082
Preparation: 3550B

Lab Sample ID: MB 680-32022/18-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 01/05/2006 0238
Date Prepared: 12/23/2005 0802

Analysis Batch: 680-33041
Prep Batch: 680-32022
Units: ug/Kg

Instrument ID: GC SemiVolatiles - M
Lab File ID: mja04040.d
Initial Weight/Volume: 30.00 g
Final Weight/Volume: 10 mL
Injection Volume:
Column ID: PRIMARY

Analyte	Result	Qual	MDL	RL
4,4'-DDD	3.3	U	0.30	3.3
4,4'-DDE	3.3	U	0.30	3.3
4,4'-DDT	3.3	U	0.27	3.3
Aldrin	1.7	U	0.14	1.7
alpha-BHC	1.7	U	0.52	1.7
beta-BHC	1.7	U	0.47	1.7
Chlordane (technical)	17	U	3.0	17
delta-BHC	1.7	U	0.23	1.7
Dieldrin	3.3	U	0.35	3.3
Endosulfan I	1.7	U	0.16	1.7
Endosulfan II	3.3	U	0.27	3.3
Endosulfan sulfate	3.3	U	0.37	3.3
Endrin	3.3	U	0.32	3.3
Endrin aldehyde	3.3	U	0.65	3.3
Endrin ketone	3.3	U	0.32	3.3
gamma-BHC (Lindane)	1.7	U	0.14	1.7
Heptachlor	1.7	U	0.32	1.7
Heptachlor epoxide	1.7	U	0.21	1.7
Methoxychlor	17	U	0.47	17
PCB-1016	33	U	6.7	33
PCB-1221	67	U	6.8	67
PCB-1232	33	U	6.2	33
PCB-1242	33	U	7.5	33
PCB-1248	33	U	8.0	33
PCB-1254	33	U	5.2	33
PCB-1260	33	U	6.4	33
Toxaphene	170	U	12	170

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl	88	30 - 150
Tetrachloro-m-xylene	76	30 - 150

Calculations are performed before rounding to avoid round-off errors in calculated results.

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Quality Control Results

Client: Spectra Tech

Job Number: 680-11658-1
Sdg Number: SA0C02

Laboratory Control Sample - Batch: 680-32022

Method: 8081A_8082
Preparation: 3550B

Lab Sample ID: LCS 680-32022/19-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 01/05/2006 0257
Date Prepared: 12/23/2005 0802

Analysis Batch: 680-33041
Prep Batch: 680-32022
Units: ug/Kg

Instrument ID: GC SemiVolatiles - M
Lab File ID: mja04041.d
Initial Weight/Volume: 30.00 g
Final Weight/Volume: 10 mL
Injection Volume:
Column ID: PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
4,4'-DDD	6.67	6.3	94	35 - 149	
4,4'-DDE	6.67	5.8	86	35 - 122	
4,4'-DDT	6.67	8.3	124	24 - 171	
Aldrin	3.33	3.4	101	26 - 139	
alpha-BHC	3.33	3.2	95	23 - 127	
beta-BHC	3.33	1.8	54	22 - 134	
delta-BHC	3.33	3.3	98	43 - 123	
Dieldrin	6.67	5.8	87	29 - 146	
Endosulfan I	3.33	2.9	87	31 - 124	
Endosulfan II	6.67	5.2	77	31 - 127	
Endosulfan sulfate	6.67	8.9	134	55 - 136	
Endrin	6.67	6.7	100	45 - 148	
Endrin aldehyde	6.67	6.3	94	36 - 123	
Endrin ketone	6.67	5.6	84	47 - 156	
gamma-BHC (Lindane)	3.33	3.0	89	16 - 144	
Heptachlor	3.33	3.5	106	19 - 150	
Heptachlor epoxide	3.33	3.2	97	43 - 132	
Methoxychlor	6.67	7.2	108	13 - 208	JP

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl	98	30 - 150
Tetrachloro-m-xylene	93	30 - 150

Laboratory Control Sample - Batch: 680-32022

Method: 8081A_8082
Preparation: 3550B

Lab Sample ID: LCS 680-32022/24-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 01/05/2006 0317
Date Prepared: 12/23/2005 0802

Analysis Batch: 680-33041
Prep Batch: 680-32022
Units: ug/Kg

Instrument ID: GC SemiVolatiles - M
Lab File ID: mja04042.d
Initial Weight/Volume: 30.01 g
Final Weight/Volume: 10 mL
Injection Volume:
Column ID: PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
PCB-1016	333	290	86	34 - 128	
PCB-1260	333	330	98	28 - 168	

Calculations are performed before rounding to avoid round-off errors in calculated results.

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Quality Control Results

Client: Spectra Tech

Job Number: 680-11658-1
Sdg Number: SA0C02

Method Blank - Batch: 680-31189

Method: 6010B
Preparation: 3050B

Lab Sample ID: MB 680-31189/16-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 12/28/2005 0510
Date Prepared: 12/16/2005 0838

Analysis Batch: 680-32369
Prep Batch: 680-31189
Units: mg/Kg

Instrument ID: ICP/AES
Lab File ID: N/A
Initial Weight/Volume: 0.50 g
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Silver	1.0	U	0.099	1.0
Aluminum	20	U	4.5	20
Arsenic	1.0	U	0.67	1.0
Barium	1.0	U	0.30	1.0
Beryllium	0.40	U	0.017	0.40
Calcium	50	U	2.4	50
Cadmium	0.50	U	0.22	0.50
Cobalt	1.0	U	0.17	1.0
Chromium	0.17	J	0.13	1.0
Copper	2.0	U	0.17	2.0
Iron	5.0	U	4.2	5.0
Potassium	2.6	J	1.3	100
Magnesium	50	U	1.2	50
Manganese	1.0	U	0.21	1.0
Sodium	70	J	50	100
Nickel	4.0	U	0.26	4.0
Lead	0.50	U	0.21	0.50
Antimony	2.0	U	0.45	2.0
Selenium	2.5	U	0.90	2.5
Thallium	2.5	U	1.3	2.5
Vanadium	1.0	U	0.14	1.0
Zinc	2.0	U	0.75	2.0

Calculations are performed before rounding to avoid round-off errors in calculated results.

SEVERN TRENT STL®

Quality Control Results

Client: Spectra Tech

Job Number: 680-11658-1
Sdg Number: SA0C02

Laboratory Control Sample - Batch: 680-31189

Method: 6010B
Preparation: 3050B

Lab Sample ID: LCS 680-31189/17-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 12/28/2005 0514
Date Prepared: 12/16/2005 0838

Analysis Batch: 680-32369
Prep Batch: 680-31189
Units: mg/Kg

Instrument ID: ICP/AES
Lab File ID: N/A
Initial Weight/Volume: 0.50 g
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Silver	5.00	4.4	88	75 - 125	
Aluminum	200	200	101	75 - 125	
Arsenic	200	190	93	75 - 125	
Barium	200	200	101	75 - 125	
Beryllium	5.00	4.9	98	75 - 125	
Calcium	500	500	99	75 - 125	
Cadmium	5.00	4.7	95	75 - 125	
Cobalt	50.0	49	98	75 - 125	
Chromium	20.0	20	100	75 - 125	
Copper	25.0	25	102	75 - 125	
Iron	109	100	96	75 - 125	
Potassium	500	490	97	75 - 125	
Magnesium	500	470	94	75 - 125	
Manganese	50.0	52	103	75 - 125	
Sodium	500	520	104	75 - 125	
Nickel	50.0	49	97	75 - 125	
Lead	50.0	48	96	75 - 125	
Antimony	50.0	46	92	75 - 125	
Selenium	200	180	90	75 - 125	
Thallium	200	190	97	75 - 125	
Vanadium	50.0	49	98	75 - 125	
Zinc	50.0	50	99	75 - 125	

Calculations are performed before rounding to avoid round-off errors in calculated results.

SEVERN TRENT STL®

Quality Control Results

Client: Spectra Tech

Job Number: 680-11658-1
Sdg Number: SA0C02

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-31189

Method: 6010B
Preparation: 3050B

MS Lab Sample ID:	680-11658-1	Analysis Batch: 680-32369	Instrument ID: ICP/AES
Client Matrix:	Solid	Prep Batch: 680-31189	Lab File ID: N/A
Dilution:	1.0		Initial Weight/Volume: 0.55 g
Date Analyzed:	12/28/2005 0533		Final Weight/Volume: 50 mL
Date Prepared:	12/16/2005 0838		

MSD Lab Sample ID:	680-11658-1	Analysis Batch: 680-32369	Instrument ID: ICP/AES
Client Matrix:	Solid	Prep Batch: 680-31189	Lab File ID: N/A
Dilution:	1.0		Initial Weight/Volume: 0.55 g
Date Analyzed:	12/28/2005 0538		Final Weight/Volume: 50 mL
Date Prepared:	12/16/2005 0838		

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Silver	84	87	75 - 125	3	20		
Aluminum	1630	1510	75 - 125	2	20	4	4
Arsenic	87	89	75 - 125	2	20		
Barium	97	99	75 - 125	2	20		
Beryllium	94	96	75 - 125	2	20		
Calcium	78	80	75 - 125	1	20		
Cadmium	93	97	75 - 125	4	20		
Cobalt	93	95	75 - 125	2	20		
Chromium	100	105	75 - 125	2	20	B	B
Copper	99	101	75 - 125	2	20		
Iron	645	1120	75 - 125	3	20	4	4
Potassium	88	84	75 - 125	1	20	B	B
Magnesium	91	102	75 - 125	2	20	4	4
Manganese	93	99	75 - 125	2	20		
Sodium	66	97	75 - 125	4	20	B 4	B 4
Nickel	92	95	75 - 125	3	20		
Lead	90	92	75 - 125	2	20		
Antimony	34	31	75 - 125	11	20	N	N
Selenium	86	88	75 - 125	2	20		
Thallium	93	95	75 - 125	2	20		
Vanadium	95	99	75 - 125	3	20		
Zinc	93	102	75 - 125	6	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

SEVERN TRENT STL®

Quality Control Results

Client: Spectra Tech

Job Number: 680-11658-1
Sdg Number: SA0C02

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 680-31189

Method: 6010B
Preparation: 3050B

MS Lab Sample ID: 680-11658-1
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 12/28/2005 0533
Date Prepared: 12/16/2005 0838

Units: mg/Kg

MSD Lab Sample ID: 680-11658-1
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 12/28/2005 0538
Date Prepared: 12/16/2005 0838

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Silver	2.6	U	12.8	12.8	11		11	
Aluminum	27000		514	514	36000	4	35000	4
Arsenic	15		514	514	460		470	
Barium	30		514	514	530		540	
Beryllium	1.5		12.8	12.8	14		14	
Calcium	3100		1280	1280	4100		4100	
Cadmium	1.3	U	12.8	12.8	12		12	
Cobalt	7.4		128	128	130		130	
Chromium	56		51.4	51.4	110	B	110	B
Copper	7.7		64.2	64.2	71		73	
Iron	33000		257	257	35000	4	36000	4
Potassium	4200		1280	1280	5300	B	5200	B
Magnesium	7100		1280	1280	8300	4	8400	4
Manganese	240		128	128	360		360	
Sodium	10000		1280	1280	11000	B 4	11000	B 4
Nickel	15		128	128	130		140	
Lead	14		128	128	130		130	
Antimony	5.1	U	128	128	44	N	39	N
Selenium	6.4	U	514	514	440		450	
Thallium	6.4	U	514	514	480		490	
Vanadium	61		128	128	180		190	
Zinc	53		128	128	170		180	

Calculations are performed before rounding to avoid round-off errors in calculated results.

SEVERN TRENT STL®

Quality Control Results

Client: Spectra Tech

Job Number: 680-11658-1
Sdg Number: SA0C02

Method Blank - Batch: 680-31625

Method: 7471A
Preparation: 7471A

Lab Sample ID: MB 680-31625/23-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 12/22/2005 0702
Date Prepared: 12/20/2005 1218

Analysis Batch: 680-31970
Prep Batch: 680-31625
Units: mg/Kg

Instrument ID: LEEMAN1
Lab File ID: N/A
Initial Weight/Volume: 1.00 g
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Mercury	0.020	U	0.0040	0.020

Laboratory Control Sample - Batch: 680-31625

Method: 7471A
Preparation: 7471A

Lab Sample ID: LCS 680-31625/24-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 12/22/2005 0705
Date Prepared: 12/20/2005 1218

Analysis Batch: 680-31970
Prep Batch: 680-31625
Units: mg/Kg

Instrument ID: LEEMAN1
Lab File ID: N/A
Initial Weight/Volume: 1.00 g
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.125	0.11	88	80 - 120	

Calculations are performed before rounding to avoid round-off errors in calculated results.

ENSAFE/Spectratech

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CHARLESTON,SC; CINCINNATI,OH; DALLAS,TX; JACKSON,TN; KNOXVILLE,TN; LANCASTER,PA; NASHVILLE,TN; NORFOLK,VA; PADUCAH,KY; PENSACOLA,FL; RALEIGH,NC; COLOGNE, GERMANY

CHAIN OF CUSTODY RECORD

PAGE 1 OF 1
PROJECT/JOB NO: 0164
COC NO:
PO NO:
REL NO:
LAB NAME: STL-Savannah

SEVERN TRENT STL®

CLIENT US Navy
LOCATION Zone J - CNC
SAMPLERS: (SIGNATURE) Julie Shaffer

PROJECT MANAGER Charlie Vernoy - EnSafe / Robb Unger - Spectratech
TELE/FAX NO. 865-483-7210 / 865-483-7262 (Spectra)

ANALYSIS REQUIRED

FIELD SAMPLE NUMBER	DATE	TIME	SAMPLE TYPE	TYPE/SIZE OF CONTAINER	PRESERVATION TEMP.	PRESERVATION CHEMICAL	NO. OF CONTAINERS	SVOC	pesticide/PCB	Metals								REMARKS
BSLM0001 01	12/13/05	1058	SD	500ml glass jar 250ml poly jar	4°C	None	2	X	X	X								
BSLM0002 01		1110					2	X	X	X								
BSLM0009 01		1132					2	X	X	X								
054M0001 02		1158					2	X	X	X								
556M0007 02		1212					2	X	X	X								
556M0005 02		1225					2	X	X	X								
BSLM0004 01		1238					2	X	X	X								
BSLM0003 01		1246					2	X	X	X								
BSLM0010 01		1315					2	X	X	X								
BSLM0008 01		1340					2	X	X	X								
BSLM0005 01		1408					2	X	X	X								
BSLM0007 01		1430					2	X	X	X								
BSLM0006 01		1450					2	X	X	X								
NOIM0004 02		1609					2	X	X	X								
009M0004 02	12/14/05	1055					2	X	X	X								680-11658

TEMP. 1.4/1.7

RELINQUISHER: Julie Shaffer	DATE 12/14/05	RECEIVER:	DATE	RELINQUISHER:	DATE	RECEIVER: K Conner	DATE 12/15/05
PRINTED: Julie Shaffer	TIME 1500	PRINTED:	TIME	PRINTED:	TIME	PRINTED: K Conner	TIME 0936
COMPANY: EnSafe		COMPANY:		COMPANY:		COMPANY: STL SAVANNAH	

METHOD OF SHIPMENT: FED-EX
SHIPMENT NO.
SEND RESULTS TO: Charlie Vernoy (EnSafe) + Robb Unger (Spectratech)

COMMENTS:

ANALYTICAL DATA RECEIVED BY (INITIALS/DATE)

ENSCOC2
REV. 05/98

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LOGIN SAMPLE RECEIPT CHECK LIST

Client: Spectra Tech

Job Number: 680-11658-1
Sdg Number: SA0C02

Login Number: 11658

Question	T/F/NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present	True	
Samples do not require splitting or compositing	True	

CASE NARATIVE
Pesticide Fraction (8081A)
STL Lab Reference No. / SDG: 680-11658 / SAOC02
Project: AOC 721 and ZONE J

SEVERN TRENT STL

I. RECEIPT

No exceptions were encountered unless a Sample Receipt Exception Report is attached to the Chain-of-Custody included with this data package.

II. HOLDING TIMES

A. Sample Preparation: All holding times were met.
B. Sample Analysis: All holding times were met.

III. METHODS

Preparation: SW-846 3550B
Cleanup: Florisil and copper
Analysis: SW-846 8081/8082A

IV. PREPARATION

Sample preparation proceeded normally. Samples were extracted in prep batch 680-32022.

V. ANALYSIS

A. Calibration: The initial calibration (ICAL) met all acceptance criteria.

The grand mean exception (GME) was applied to continuing calibration verification (CCV) standards in this package. This rule is described in Method SW-846 and states 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 %. The data are summarized on the Form VII for each clock. The Form VII includes the %D for each target compound and a calculation of the grand mean for that CCV.

B. Blanks: All acceptance criteria were met.

C. Surrogates: Due to the level of dilution required because of the presence of non-target matrix interferences, the surrogate recoveries could not be calculated for any of the samples in this package. These results have been denoted with an "0D" data qualifier on Form 2.

D. Spikes: A lab control standard (LCS) for organochlorine pesticides and an LCS for PCB (Aroclor 1016/1260) were extracted and analyzed along with the samples. All acceptance criteria were met.

E. Samples: Due to non-target matrix interferences, the samples in this package were analyzed and reported at a dilution of 10 (DF=10). The samples were subjected to Florisil and copper cleanups in an attempt to minimize the interferences and were analyzed initially at no dilution (DF=1). The capping CCV (CCV analyzed after the samples) for the "straight runs" (DF=1) exceeded the acceptance criteria for almost all of the pesticide target compounds. Endrin and DDT were especially affected by the samples' matrix interferences and the PCB capping CCV was also adversely impacted by the samples' matrices.

F. Other: None.

SEVERN TRENT STL

CASE NARRATIVE
TCL SEMI-VOLATILES (8270C) Fraction

STL Lab Reference No: 680-11658/ SDG No: SAOC02
CLIENT: ENSAFE

I. RECEIPT

The samples were received in good condition with cooler temperatures within acceptance criteria. No exceptions were encountered.

II. HOLDING TIMES

A. Sample Preparation: All holding times were met.

B. Sample Analysis: All holding times were met.

III. METHOD

Preparation: SW-846 3520C
Cleanup: N/A
Analysis: SW-846 8270

IV. PREPARATION

Sample preparation proceeded normally.

V. ANALYSIS

A. Calibration: All acceptance criteria were met.

B. Blanks: All acceptance criteria were met.

C. Surrogates: All acceptance criteria were met.

D. Spikes: Lab control sample was analyzed concurrently with client's samples. Spiking compound Hexachlorocyclopentadiene recovered outside of control limits in lab control sample 680-32028. This has been denoted on the LIMS report with a "*" data qualifier.

Sample 680-11685-2 was the batch matrix spike/matrix spike duplicate (MS/MSD). Compounds Hexachloroethane and Hexachlorocyclopentadiene recovered outside of control limits in MS/MSD. This has been denoted on the LIMS report with a "N" data qualifier.

E. Samples: In batch 32028 internal standards recovered outside of control limits in sample 680-11658-3. This has been denoted on the Form 8 with a "*" data qualifier.

F. Other: No additional exceptions were encountered during the analysis of the samples contained within this SDG.

CASE NARRATIVE
Metals Fraction

STL Lab Reference No: STL Log# 680-11658/ SDG# SA0C02

Project: Spectra Tech

I. RECEIPT

The samples were received in good condition with cooler temperatures within acceptance criteria. Please refer to attached custody cooler inspection form for exceptions.

II. HOLDING TIMES

A. Sample Preparation: All holding times were met.

B. Sample Analysis: All holding times were met.

III. METHOD

Preparation: 3050B/7471A
Cleanup: N/A
Analysis: SW-846/ 6010B/7471A

IV. PREPARATION

Sample preparation proceeded normally.

V. ANALYSIS

A. Calibration: All acceptance criteria were met.

B. Blanks: Due to J values (results between the MDL and RL) in the method blank, all associated sample results were flagged with a "B" qualifier for chromium, potassium, and sodium. All other acceptance criteria were met.

C. Spikes/Duplicate: Sample 680-11658-1 (BSLM000101) was used as the batch matrix spike/ matrix spike duplicate (MS/MSD) for the ICP metals analysis. The MS/MSD percent recoveries were outside of control limits for antimony. This is indicated by an "N" qualifier on the Form 5A and in the LIMS report. Due to abundance, the MS/MSD percent recoveries were outside of control limits for aluminum, iron, and sodium. This is indicated by a "4" qualifier in the LIMS report. All other acceptance criteria were met. A non-client sample was used as the batch MS/MSD for the mercury analysis. Forms 5A and 6 have been provided, but do not impact the reported data.

D. Post Spike/ Serial Dilution: A non-client sample was used as the batch serial dilution and post-digestion spike for the mercury analysis. In the initial analysis, the batch post-digestion spike percent recovery was outside of control limits. The post-digestion spike was reprepped and reanalyzed. The post-digestion spike percent recovery was within control limits for the reanalysis. All other acceptance criteria were met.

E. Samples: All acceptance criteria were met.

F. Other: All other acceptance criteria were met.

ENSAFE/Spectratech

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CHARLESTON, SC; CINCINNATI, OH; DALLAS, TX; JACKSON, TN; KNOXVILLE, TN; LANCASTER, PA; NASHVILLE, TN; NORFOLK, VA; PADUCAH, KY; PENSACOLA, FL; RALEIGH, NC; COLOGNE, GERMANY

CHAIN OF CUSTODY RECORD

PAGE 1 OF 1
PROJECT/JOB NO: 0164
COC NO:
PO NO:
REL NO:
LAB NAME: STL-Savannah

CLIENT: US Navy
LOCATION: Zone J - CNC
SAMPLERS: (SIGNATURE) Julie Shaffer

PROJECT MANAGER: Charlie Vernoy - EnSafe / Robb Unger - Spectratech
TELE/FAX NO.: 865-483-7210 / 865-483-7262 (Spectra)

ANALYSIS REQUIRED

FIELD SAMPLE NUMBER	DATE	TIME	SAMPLE TYPE	TYPE/SIZE OF CONTAINER	PRESERVATION TEMP.	PRESERVATION CHEMICAL	NO. OF CONTAINERS	SVOC	Pesticide/PCB	Metals							REMARKS
BSLM0001 01	12/13/05	1058	SD	500ml glass jar 250ml poly jar	4°C	None	2	X	X	X							
BSLM0002 01		1110					2	X	X	X							
BSLM0009 01		1132					2	X	X	X							
054M0001 02		1158					2	X	X	X							
556M0007 02		1212					2	X	X	X							
556M0005 02		1225					2	X	X	X							
BSLM0004 01		1238					2	X	X	X							
BSLM0003 01		1246					2	X	X	X							
BSLM0010 01		1315					2	X	X	X							TEMP. 1.4/1.7
BSLM0008 01		1340					2	X	X	X							
BSLM0005 01		1408					2	X	X	X							
BSLM0007 01		1430					2	X	X	X							
BSLM0006 01		1450					2	X	X	X							
NOIM0004 02		1609					2	X	X	X							
009M0004 02	12/14/05	1055					2	X	X	X							680-11658

RELINQUISHER:	DATE	RECEIVER:	DATE	RELINQUISHER:	DATE	RECEIVER:	DATE
Julie Shaffer	12/14/05					K Conner	12/15/05
PRINTED: Julie Shaffer	TIME 1500	PRINTED:	TIME	PRINTED:	TIME	PRINTED: K Conner	TIME 0936
COMPANY: EnSafe		COMPANY:		COMPANY:		COMPANY: STL SAVANNAH	

METHOD OF SHIPMENT: FED-EX
SHIPMENT NO.
SEND RESULTS TO: Charlie Vernoy (EnSafe) + Robb Unger (Spectratech)

COMMENTS:

ANALYTICAL DATA RECEIVED BY (INITIALS/DATE)

ENSCOC2
REV. 05/98

TRENT STL

COOLER RECEIPT AND INSPECTION FORM

Log Number: 680-11658

Number of Coolers Received: 2

Received By: K Conner

Date: 12/15/2005

Project Manager: L. Wolfe

Client: EnSafe

Courier: ✓ Fed EX ____ UPS ____ Client ____ Other

Cooler Temperature(s) Upon Receipt: 1.4/1.7

	YES	NO*
Is cooler temperature ≤6°C, with no frozen samples? NOTE: If >6°C and/or samples are frozen AND multiple coolers are received, list all samples associated with out-of-temp cooler(s).	✓	
Circle One: Did the samples arrive on **wet ice, blue ice, no ice,** or **other**? If other, then list:		
Are custody seals intact, if used? If no seals are used, then write NA in space provided:	✓	
Did samples arrive in good condition with no breakage?	✓	
Circle One: Type of packing used is: **vermiculite, bubble wrap,** or **other**. If other, then list:		
Is there a COC?	✓	
Circle One: Is the COC an **STL Savannah COC** or a **client COC**?		
Is the COC filled out completely?	✓	
Is the COC filled out in ink and signed?	✓	
Are all sample containers labeled?	✓	
Are all sample labels legible?	✓	
Are all samples listed on COC included in cooler?	✓	
Are all samples included in cooler listed on COC?	✓	
Do sample IDs on containers match sample IDs on COC?	✓	
Do containers contain sufficient volumes?	✓	

** All boxes checked 'NO' require PM notification and completion of next 2 sections.*

CUSTODY STAFF:

Describe all anomalous receipt situations in detail (attach additional sheets if necessary): _____

PM STAFF:

Client Contacted: ___ YES ___ NO

Contact: _____ Date: _____

Resolution: _____

PM Signature: LeR

FCU046:07.22.04:1

Appendix B
Data Validation Report

Spectra Tech Inc.
Engineering & Environmental Services

January 15, 2004

Robb Unger, Project Manager
SpectraTech, Inc.
132 Jefferson Court
Oak Ridge, TN 37830

Dear Mr. Unger,

The following narrative represents an Executive Summary of the Verification and Validation process for the Zone J Sampling Project Chemical Data Review.

Spectra Tech Inc. has performed 100% data verification and 100% data validation for chemical data that was collected to characterize the Zone J Sampling project. The original data deliverable included hard copy data packages and electronic data deliverables (EDDs) for single data package SAOCO2.

Analytical Chemistry Data

The following data from the Laboratory was used to complete a Level 4 Verification and Validation for Chemical parameters in accordance with the Zone J Sampling and Analysis Plan.

A common item noted in the report was the fact that matrix spike (MS) or matrix spike duplicates (MSDs) was not analyzed or reported for the Pesticide/PCB portion of the data package. The data packaged did contain matrix spike on the metals and semi-volatiles analytes and these are noted in the narrative of the validation report. The Sampling and Analysis Plan specified that a MS was to be provided for the SDGs although the MS/MSD sample was justified based on the matrix effects causing QC failure on the undiluted sample thus running a diluted sample to pass the QC for the sample column per-cent difference was justified. Also, where missing, there was no statement in the narrative section of the related laboratory reports explaining the absence of MS/MSD analyses and results.

Data Verification

100 % Verification was performed on the data package. The following data issues were documented on the attached Chemical Data Verification checklists.

- For polychlorinated biphenyls (PCBs), column confirmation percent difference (%D) form VIIs were included and reviewed with respect to the hard copy data packages,
- EDD and hard copy data package results and/or laboratory qualifier flags were provided and in agreement. Addition of Validation Qualifier codes were added as a deliverable on an Excel data base.

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www.spectratechinc.com

Data Validation

Data validation was performed for the data package. The following data issues were documented in the attached Data Validation report.

- For Pesticides/PCBs, there were two occurrences of the percent difference between the quantitation and confirmation GC columns was greater than the QC limit of 25%, and the Grand Mean Exception of SW-846 was used qualify the Continuing Calibration Verification (CCV);
- For total semi-volatile organics analysis (SVOAs), two compounds were disqualified due to low MS/MSD and LCS recoveries;
- For total metals, the Antimony results were qualified as UJ (Estimated undetected) due to MS/MSD recoveries that were outside QC limits.

Conclusion

Overall, the quality of the chemical and radiological analysis results for samples from this project were acceptable, with minimal qualification of results.

Sincerely,

Thomas G. Lee
QA Officer/Senior Engineer
Spectra Tech, Inc.

Chemical Analytical Data Validation Comments on Data for Sample Data Group (SDG) SAOCO2

Data for 15 soil samples was reported in this data package. The chain of custody was prepared by ENSAFE of Charleston, S.C. and transmitted with the samples to the STL in Savannah, GA. The soil samples were analyzed for polychlorinated biphenyls (PCBs), volatile organics analysis (VOAs), semi-volatile organics analysis (SVOAs), total metals, total mercury, and wet chemistry per-cent moisture content. All analyses were performed by Severn Trent Laboratories of Savannah. The analytical data were evaluated according to the guidance provided in the referenced methods from SW-846[1] for quality control issues, which could result in rejection of sample results. The validation was preformed in accordance with the specification and requirements of the Sampling and Analysis Plan for Zone J, Charleston Naval Facility (SAP). In addition, the Validation Specification used in the process include those contained in Spectra Tech Inc. procedure, STI-QA-100, *Data Validation Procedure* and the Data Verification Project Plan, *WESKEM WD-130*. Where there were discrepancies between the QC requirements in SW-846, the Spectra Tech, Inc. procedures, and the *WESKEM WD-130*, the QC requirements in STI-QA-100, *Data Validation Procedure* were followed.

The samples have the following Customer ID (Client sample) numbers:

1.	680-1658-1	(BSLM000101)
2.	680-1658-2	(BSLM000201)
3.	680-1658-3	(BSLM000901)
4.	680-1658-4	(054M000102)
5.	680-1658-5	(556M000702)
6.	680-1658-6	(556M000502)
7.	680-1658-7	(BSLM000401)
8.	680-1658-8	(BSLM000301)
9.	680-1658-9	(BSLM001001)
10.	680-1658-10	(BSLM000801)
11.	680-1658-11	(BSLM000501)
12.	680-1658-12	(BSLM000701)
13.	680-1658-13	(BSLM000601)
14.	680-1658-14	(NOIM000402)
15.	680-1658-15	(009M000402)

[1] "EPA Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," SW-846, Third Edition.

Polychlorinated Biphenyl's by Gas Chromatography

The above Samples were analyzed for total PCBs.

Holding Times

The holding time requirements were met. No rejection of results is recommended.

Calibration

The initial calibration criteria were met in the SDG , however continuing calibration verification (CCV) recoveries were excepted due to low recoveries in the CCV. The sample required dilution to pass the required %D column criteria due to matrix inference, thus the Grand Mean Exception of SW-846 was used for the continuing calibration verification (CCV) in this data package. Form VIIs were reviewed for percent difference for the compounds in the CCV to assure acceptance criteria of < 15 % for each clock. %D Range for the linear and 2nd order curves was from -4.6% for Aroclor 1016 to 15.1% for Aroclor 1260 for instrument SGMECD1 and -2.7% to 12.9% for Aroclor 1016 for instrument SGMECD2. The 4th run for Aroclor 1260 and the surrogate Decachlorobiphenyl (DCB) were outside of the acceptance criteria, all other were acceptable. The grand means were calculated for SGECD1 (8.31% D) target run were acceptable as were target runs for SGECD2. Based on the CCV calculations the initial and continuing calibration criteria were met. No rejection of results is recommended.

Blank

Blank criteria were met. No rejection of results is recommended.

Surrogate Recovery

The surrogate recoveries were met. No rejection of results is recommended.

Matrix Spike/Matrix Spike Duplicate (MS/MSD)

The MS/MSD recoveries were within acceptable limits. No rejection of results is recommended.

Laboratory Control Sample (LCS)

The LCS recoveries were acceptable. No rejection of results is recommended.

Organochlorine Pesticides by Gas Chromatography

The above Samples were analyzed for VOAs.

Holding Times

The holding time requirements were met. No rejection of results is recommended.

Calibration

Initial calibration was acceptable however matrix interference due to non target compounds caused the continuing calibration verification (CCV) to fail QC acceptance criteria (> 15% D) during undiluted sample runs, thus the sample was analyzed at a DF of 10. The Grand Mean Exception of SW-846 was used for the CCV in this data package. Form VIIs were reviewed for percent difference for the compounds in the CCV to assure acceptance criteria of < 15 % for each clock. %D Range for the linear and 2nd order curves was from -.5% for 4,4 DDE to 19.6% for Endrin aldehyde for instrument SGMECD1 and .8% Endrin to 17.0% for Endrin aldehyde for instrument SGMECD2. Compounds 4,4'-DDT, Endrin aldehyde, and Endrin keyton were outside of the acceptance criteria for instrument SGMEC2, all others were acceptable. Grand means were calculated for SGECD1 and SGECD2 target run (7.33% D) and were acceptable. Based on the CCV calculations the initial and continuing calibration criteria were met. No rejection of results is recommended.

Blank

Blank criteria were met. No rejection of results is recommended.

Surrogate Recovery

The surrogate recoveries were 0% due to dilution of the samples (DF=10) in this SDG. The undiluted samples were subjected to Florisil and Copper cleanup prior to the undiluted sample run without success. Acid cleanup was not attempted as this would have affected quantization of single peak pesticide compounds. Since the surrogates could not be evaluated due to dilution, no rejection of results is recommended.

Matrix Spike/Matrix Spike Duplicate (MS/MSD)

Matrix Spike/ Matrix Spike Duplicate were not run with these samples due to dilution of the samples necessary as a result of Matrix interference. MS/MSD could not be evaluated. LCS recoveries were acceptable. No qualification of results is recommended.

Laboratory Control Sample (LCS)

The LCS recoveries were acceptable. No rejection of results is recommended.

SVOAs

The above Samples were analyzed for SVOAs.

Holding Times

The holding time requirements were met. No rejection of results is recommended.

Calibration

The initial and continuing calibration criteria were met. No rejection of results is recommended.

Blank

Blank criteria were met. No rejection of results is recommended.

Surrogate Recovery

The surrogate recoveries were acceptable. No rejection of results is recommended.

Matrix Spike/Matrix Spike Duplicate (MS/MSD)

The MS/MSD recoveries and the RPDs were acceptable with the exception of Hexachloroethane and Hexachlorocyclopentadiene. See description under LCS. No rejection of results is recommended.

Laboratory Control Sample (LCS)

The LCS recoveries were acceptable except for two compounds (HCCPD and HCE). **LCS recoveries for Hexachlorocyclopentadiene (0, QC limit 20-109) and Hexachloroethane (28, QC limit 31-88) were outside the laboratory control limits for these compounds. Due to spike recoveries outside of the normal QC limits the Results for Hexachlorocyclopentadiene and Hexachloroethane are qualified as unusable (R) due to low LCS and MS/MSD recoveries. The remainder of the LCS recoveries were acceptable and no additional qualification is necessary.**

Metals and Total Mercury

All the samples identified in this SDG were analyzed for metals and total mercury.

Holding Times

The holding time requirements were met. No rejection of results is recommended.

Calibration

The initial and continuing calibration criteria were met. No rejection of results is recommended.

Blanks

The blank recoveries were acceptable. No rejection of results is recommended.

Matrix Spike/Matrix Spike Duplicate (MS/MSD)

The MS recoveries were acceptable for all elements except Aluminum (1633%), Antimony (34%), Iron (645%), and Sodium (66%). The MSD recoveries were acceptable for all elements

except Aluminum (1511%), Antimony (31%), and Iron (1124%). The sample chosen for the MS/MSD was BLSM000101. **The analyte concentration in the MS sample for Al, Fe and Na exceeded the spike amount by at least a factor of 4, so limits are not applied, however the quantization of Antimony in the sample was < 4X the spike. The RPDs were acceptable for these samples. The Antimony, results for all samples should be qualified as estimated undetected (UJ) due to MS/MSD recovery outside the QC limits.**

Laboratory Control Sample (LCS)

The LCS recoveries were acceptable. No rejection of results is recommended.

Wet Chemistry

The above Samples were analyzed for per-cent moisture. The results were evaluated for holding times, calibrations, matrix spike recoveries, and duplicate and laboratory control sample recoveries where applicable. Based on professional judgment, no rejection of results is recommended.

PREPARED BY: _____ **DATE:** 2/2/06

Validation Review

Validation summaries for each analysis are provided in this report. Raw data for each analysis was reviewed against the validation recommendations. There were no causes for rejection of any of the data. Validation findings was reviewed and found to be correct.

REVIEWED BY: _____ **DATE:** 02-02-06