

# **FINAL REPORT**

## **SEDIMENT SAMPLE RESULTS NSP/ASHLAND LAKEFRONT ASHLAND, WISCONSIN VOLUME I OF III**



*Prepared for*

Xcel Energy, Inc.

512 Nicollet Mall, 8th Floor

Minneapolis, MN 55401

June 7, 2001

# **URS**

URS

5250 East Terrace Drive, Suite I  
Madison, Wisconsin 53718

URS Project No. 05644-098

NSP/Ashland Lakefront Site – BRRTS# 02-02-000013



June 7, 2001

Mr. James R. Dunn  
Wisconsin Department of Natural Resources  
Northern Region Headquarters  
810 West Maple Street  
Spooner, WI 54801

RE: URS Project No. 05644-098  
NSP Ashland Lakefront Sediment Sample Results  
Xcel Energy, Inc., 301 Lake Shore Drive, Ashland, Wisconsin

Dear Mr. Dunn:

Please find enclosed results of sediment samples collected for the above referenced project. These samples were collected by URS between February 28 and March 8, 2001 to further characterize the extent of sediment contamination identified during a 1996 investigation completed by SEH Inc. Data collected during the recent investigation was also used to verify the previously calculated volume of product present in the sediment operable unit. This work was accomplished in accordance with the February 2, 2001 Work Plan approved by the WDNR in a February 13, 2001 letter.

Please call us at (608) 244-5656 should you have any questions.

Sincerely,

David P. Trainor, P.E., P.G.  
Principal

cc: Jerry Winslow  
Jim Musso  
Dave Crass

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**1.1 SITE DESCRIPTION**

The Ashland Lakefront Property is located in Section 33, Township 48 North, Range 4 West in Ashland County, Wisconsin as shown on Figure 1. The property consists of a flat terrace adjacent to the Chequamegon Bay shoreline. It is bounded by Prentice Avenue and a jetty extension of Prentice Avenue to the east, the Ellis Avenue and the marina extension of Ellis Avenue to the west, Chequamegon Bay to the north, and the Wisconsin Central Limited railway to the south. The property is owned by the City of Ashland, and is currently being utilized as a park (Kreher Park); a portion of the property is occupied by the City's former wastewater treatment plant.

The property has been the subject of numerous investigations. Previous investigations have identified fill at the Kreher Park portion of the property that ranges in thickness from 0 to 10 feet. The near shore sediments that have been the subject of this investigation range in thickness from 0 to 9 feet. The fill material and lake sediments are underlain by the Miller Creek Formation. In the Ashland area, the Miller Creek has been identified up to 50 feet in thickness. At Kreher Park, the Miller Creek ranges in thickness from 6 to 20 feet, increasing in thickness from south to north. The Miller Creek consists predominantly of a dense silty clay till with inter-bedded lenses of silt, sand, and gravel. The Miller Creek is underlain by the Copper Falls Formation which consists of granular cohesionless material. An artesian well located on the marina jetty was installed in the Copper Falls at a depth of more than 100 feet. The entire thickness of the Copper Falls has not been penetrated as part of any site investigation with borings advanced at Kreher Park, or on the NSP/Xcel Energy property to the south; it is believed to be up to 200 feet thick. The Copper Falls is underlain by Precambrian sandstones of the Oconto Group; the uppermost bedrock unit.

Previous investigations have identified contamination in Kreher park and in near shore bay sediments. Contaminated near shore sediments are located within the inlets created by the jetty and marina extension described above. The area of investigation described in this report is shown on Figure 2. General facility information is included in Table 1.

**1.2 SITE HISTORY**

The Kreher Park area was constructed of fill materials to create land for lumbering operations during the 19<sup>th</sup> century. Beginning in the mid to late 1800's the area was filled with a variety of fill materials including slab wood, concrete, demolition debris, municipal and industrial wastes, and earth fill. Schroeder Lumber Company occupied the property between 1901 and 1939, and operated a sawmill/wood processing facility. Ashland County acquired the property in 1939 and sued to eject Schroeder from the site. In 1942, Ashland County transferred title of the site to the City of Ashland, and the City has owned the land since that time. In the 1940's the City operated the northwest portion of Kreher Park as a waste disposal facility (landfill). In 1951, the City constructed a wastewater treatment plant on the property, and operated the plant until 1989. The marina extension of Ellis Avenue was completed in the mid 1980's. Currently, the property consists predominantly of a grass covered open area, a gravel overflow parking lot for the marina, and a service road. The former wastewater treatment plant is located along the shoreline north of the park; a boat landing is located east of the wastewater treatment plant jetty.

**1.3 PUPOSE AND SCOPE**

The purpose of this report is to present analytical constituent results of sediment samples collected from Chequamegon Bay adjacent to Kreher Park. This data has been used to better refine sediment characterization originally developed by Short Elliot Hendrickson (SEH) in 1996. Samples were collected from 59 borings advanced through winter ice to verify the lateral and vertical extent of sediment contamination. Samples were analyzed for volatile organic compounds (VOCs) and semi-volatile organic compounds (SVOCs). Samples were also collected to determine physical properties of sediments including density and pore water content. The results of these physical analyses are presented in this report. However, the interpretation of these results for purposes of determining product volumes in the sediments are the subject of a separate report being prepared by the Gas Technology Institute (GTI). In addition to samples collected for VOC, SVOC and physical analyses, representative samples were also submitted for separate laboratory fingerprinting analysis. GTI is utilizing the results of this fingerprinting to prepare yet a separate report on these results.

## **2.1 SAMPLE LOCATION SELECTION**

Sediment sample locations were selected based upon results of samples collected during the investigation completed in 1996 by SEH. A total of 59 sample locations in a regular grid pattern were selected in the area where contamination was previously identified. Each location was marked by Nelson Surveying of Ashland, Wisconsin on February 26 and 27, 2001 as shown on Figure 2.

## **2.2 COLLECTION OF SEDIMENT SAMPLES**

Sediment samples were collected from borings advanced through the ice at the pre-determined locations with a track mounted Geoprobe. After cutting a hole in the ice and measuring the water depth, this direct push drilling method was used to hydraulically advance a drill rod attached to a piston-sampling device at two-foot intervals. Each boring was extended a minimum of eight feet into the underlying sediments. Additional samples were collected below eight feet if the sample collected at the 6 to 8-foot interval had obvious signs of contamination. For each sample collected, a clear plastic liner was placed in the piston sampler. Recovered sediment samples were withdrawn from the piston sampler in the plastic liners. The liners were cut open, and the length of the sample interval recovered and a description of the sediment was recorded on field boring logs. Boring logs are included in Appendix A.

After the sediment core was recovered, the sample was sealed in a plastic bag, and allowed to warm. All samples were field screened for organic vapors with a photo-ionization detector (PID) equipped with a 10.6 eV lamp. (PID results are included on soil boring logs). Samples selected for laboratory analysis were then placed in laboratory provided containers as described below. Undisturbed core samples were also submitted for laboratory analysis to evaluate the physical properties of the sediment. These samples were submitted within the plastic liners sealed with end caps to maintain sample structure.

## **2.3 PHYSICAL PROPERTY SEDIMENT SAMPLE COLLECTION**

Representative soil samples were also selected for testing to evaluate the physical properties of contaminated sediment. Undisturbed core samples were collected from boring SD-3, SD-7, SD-8, SD-11, SD-23, SD-27, SD-30, SD-36, SD-46, SD-47, and SD-53. The weight, volume, and

dry weight of each core were used to determine the porosity and density of each sample. The water content and product content of each core was also determined by xylenes solvent addition followed by centrifuge. Laboratory services were provided by Test America of Watertown, Wisconsin. Laboratory results are summarized in Table 2, and laboratory reports are included in Appendix B.

## **2.4 LABORATORY ANALYSIS OF SEDIMENT SAMPLES**

Samples selected for laboratory analysis were placed in laboratory provided containers, held on ice, and shipped to Test America in Watertown, Wisconsin, a Wisconsin certified environmental laboratory, along with the completed chain-of-custody forms. Samples were analyzed for volatile organic compounds (VOCs) by Method 8260, and semi-volatile organic compounds (SVOCs) by Method 8270. Samples selected for fingerprint analysis were also analyzed for VOCs and SVOCs by META Environmental Laboratory, Inc. in Watertown, Massachusetts. These results are summarized in Table 3, and laboratory reports are included in Appendix C. Laboratory results for samples analyzed by Test America are summarized in Table 4, and laboratory reports are included in Appendix D.

### 3.1 NATURE AND EXTENT OF SEDIMENT CONTAMINATION

Constituents of concern identified from this investigation include VOCs and SVOCs characteristic of a coal tar/creosote origin. Naphthalene was detected as both a VOC and an SVOC (it is common to both test methods), and is the most common constituent detected. Isoconcentration contours of total SVOCs detected at each sample interval are shown on Figures 3A through 3E. Isoconcentration contours of total VOCs detected at each sample interval are shown on Figures 4A through 4E. Profiles showing sample locations are shown on Figures 5A through 5F.

Figures 3A and 3B show total SVOCs exceeding 1,000 mg/kg in samples collected at the 0 to 2 and 2 to 4-foot intervals at boring locations SD-44, SD-45, SD-46, SD-47, SD-52, SD-53, SD-54, SD-55, SD-56, and SD-59, located offshore near the open sewer drainage swale. Total SVOCs also exceeded 1,000 mg/kg in shallow sediment samples collected from three hot spots shown on these two figures; the SD-15/SD-26 (0-2 feet), SD-25 (2-4 feet), and SD-49 (2-4 feet) locations. The concentration of total SVOCs decreases at depths below 4 feet. Figure 3C shows total SVOCs exceeding 1,000 mg/kg in samples collected from the 4 to 6-foot interval at two hotspots. The first hotspot is located at the SD-21 boring; the second hotspot is located at the SD-25/SD-26/SD-36 borings. Figure 3D shows total SVOCs exceeding 1,000 mg/kg in the SD-36 sample, and 300 mg/kg in samples collected at the 6 to 8-foot interval in the SD-41, SD-48, and SD-51 samples. Figure 3E shows total SVOCs exceeding 1,000 mg/kg in the SD-50 sample. The remaining samples collected at this 8 to 10-foot interval yielded total SVOC concentrations exceeding 10 mg/kg in the SD-33, SD-54, and SD-55 samples; SVOCs were either detected below 10 mg/kg, or not detected in the remaining samples collected from this interval.

The contaminant distribution pattern concentration of total VOCs + naphthalene is similar to the contaminant distribution pattern of total SVOCs. Figures 4A and 4B show the highest concentrations of total VOCs + naphthalene in samples collected from borings advanced in the vicinity of the former open sewer drainage swale at depths between 0 and 4 feet. Total VOCs + naphthalene exceed 100,000 µg/kg in samples collected from borings SD-6, SD-14, SD-15, SD-21, SD-22, SD-25, SD-26, SD-31, SD-32, SD-33, SD-36, SD-44, SD-45, SD-46, SD-47, SD-52, SD-54, SD-55, SD-56, and SD-59. Lower but elevated concentrations were also detected in samples collected at the 2 to 4-foot interval at SD-9 and SD-49. Figure 4C shows the concentration of total VOCs + naphthalene exceeding 100,000 µg/kg in samples collected from the 4 to 6-foot interval in borings SD-57 and SD-58 located near the former open sewer drainage

swale. Elevated concentrations at this interval were also detected in samples collected from four hot spot areas. Three of these hot spot areas include boring locations SD-21, SD-33, and SD-50. The fourth hotspot is located north of the former waste water treatment plant and includes borings SD-16, SD-25, SD-26, SD-36, and SD-37. Figure 4D shows total VOCs + naphthalene exceeding 100,000  $\mu\text{g/L}$  in samples collected at the 6 to 8-foot interval from the SD-41 boring. Total VOCs + naphthalene exceeded 10,000  $\mu\text{g/kg}$  in the SD-50 sample (near SD-41), and in samples collected from borings SD-33, SD-34, SD-46, and SD-55 at the 6 to 8-foot interval. Figure 4E shows total VOCs + naphthalene exceeding 100,000  $\mu\text{g/L}$  in the SD-50 sample collected at the 8 to 10 foot interval.

In general, sample recovery was poor for the 0 to 2-foot interval. Sediment within this interval was very soft and difficult to recover by the sampling technique used. A layer of wood chips overlies native sediment throughout the study area. As shown on Figures 5A through 5F, the wood chip layer varies in thickness from 0 to 6-feet. Native sediment underlying the wood chip layer consists of interbedded layers of sand, silty sand, silt, and silty clay.

### **3.2 PHYSICAL PROPERTIES OF SEDIMENT**

Physical properties were determined on undisturbed core samples from borings SD-3, SD-7, SD-8, SD-11, SD-23, SD-27, SD-30, SD-36, SD-46, SD-47, and SD-53. The container and sample weight, sample volume, sample density, and dry weight of each core were measured. In addition, the core samples were also separated by centrifuge to determine the volumes of sediment, water, and product. The laboratory services for these analyses were provided by Test America of Watertown, Wisconsin. The laboratory results for these physical analyses along with the calculated porosity and centrifuge volumes are summarized in Table 2.

The sample dry and wet weight, volume, wet (bulk) density, dry weight, and product volume (weight %) were used in a series of calculations to determine the sample porosity,  $N$ . The method and equations used to calculate each sediment sample's porosity were taken from "Principles of Geotechnical Engineering", Braja M. Das, Fourth Edition, 1998.

#### **4.1 SUMMARY AND RESULTS**

Sediment samples were collected from 59 borings advanced through the ice in Chequamegon Bay offshore and near Kreher Park. This work was performed between February 28 and March 8, 2001 by URS. The purpose of the investigation was to further characterize previously identified contamination within near shore bay sediments located within the inlet created by the jetty and marina extension adjacent to Kreher Park. Previous site investigation results were presented in the July 1996 Sediment Investigation Report prepared by SEH, Inc.

Contamination identified during this investigation consists of VOCs and SVOCs. The highest concentration of VOCs and SVOCs were detected in soil samples collected near the former open sewer drainage swale at depths between 0 and 6 feet. Contaminants are present at deeper intervals, but the lateral extent of contamination at these deeper intervals is limited to isolated hot spot areas.

#### **4.2 CONCLUSIONS**

Results of this investigation confirm that the lateral extent of contamination identified during the 1996 SEH investigation is essentially accurate, given the type and number of samples collected. However, this investigation provides a more precise assessment of vertical contaminant distribution, especially with regard to the extent of hot spots. Therefore, the results of this investigation should be considered in the remedy selection process such that ultimate remedy is targeted and cost-effective.

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**TABLES**

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**Table 1**  
**General Facility Information**

**PROJECT TITLE:** Xcel Energy - Construction Documentation Report  
for the Interim Response Coal Tar Recovery System

**CURRENT OWNER:** Xcel Energy, Inc.

**PRIMARY CONTACT:** Mr. Jerry Winslow  
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**LABORATORY SERVICES:** Mr. Dan Milewsky  
Test America, Inc.  
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Watertown, Wisconsin 53904  
(920) 261-1660 (920) 261-8120 fax

Mr. David Mauro  
Meta Environmental, Inc.  
49 Claredon Street  
Watertown, Massachusetts 02472  
(617) 923-4662 (617) 923-4610 fax

**DRILLING SERVICES:** Ms. Kim Kapugi  
On-Site Environmental Services, Inc.  
P.O. Box 280  
Sun Prairie, Wisconsin 53590  
(608) 837-8992 (608) 837-5906 fax

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**TABLE 2**  
**SUMMARY OF PHYSICAL PROPERTIES OF SELECT SEDIMENT SAMPLES**

Sample I.D.	Sample Number	Sample Round	Total Weight (grams)	Total Volume (mL)	Container Weight (grams)	Specific Gravity of Sample	Wet Unit Weight (lb/CF)	Dry Weight Solids (%)	Solids Weight (grams)	Liquid Weight (grams)	Volume of Solids (mL)	Volume of Liquid (mL)	Specific Gravity of Solids	Dry Unit Weight gamma <sub>s</sub> (lb/CF)	Void Ratio	Porosity N	Centrifuge Sediments (wt-%)	Centrifuge Water (wt-%)	Centrifuge DNAPL (wt-%)	Sediment Type	Comments		
SD-3-04	428413	1	355	152	51	2.00	124.8	78.4	238	86	86	86	2.76	102.63	0.678	0.404	78.4	21.1	<0.5	CL-ML: Silt, sandy, clayey, medium dense, medium to coarse sand, light brown.	Slight Color in Xylenes		
		2																					Slight Color in Xylenes
		Average																78.4	21.4		0.3		
SD-07-04	429083	1	474	214	59	1.94	121.0	82.9	344	71	143	71	2.41	103.34	0.452	0.311	82.9	17.1	0	SP: Sand, medium grained, loose, reddish brown.	No Color in Xylenes		
		2																					No Color in Xylenes
		Average																82.9	17.1		0		
SD-8-06	429079	1	547	224	65	2.15	134.3	83.8	404	78	146	78	2.77	115.55	0.495	0.331	83.8	16.2	0	SP: Sand, fine to medium grained, loose, poorly graded, reddish brown.	No Color in Xylenes		
		2																					No Color in Xylenes
		Average																83.8	16.2		0.0		
SD-11-06	428410	1	318	132	53	1.99	124.3	83.7	220	43	89	43	2.47	106.90	0.442	0.308	83.7	16.3	0	ML: Silt, sandy, stiff trace gravel, reddish brown.	No Color in Xylenes		
		2																					No Color in Xylenes
		Average																83.7	16.3		0.0		
SD-17-04	429084	1	440	174	58	2.20	137.0	85.5	327	55	119	55	2.75	119.84	0.436	0.304	82.8	12.3	5	SP: Sand, fine grained, loose, poorly graded, medium dense, reddish brown.	Brown Oil in Xylenes		
		2																					Brown Oil in Xylenes
		Average																74.5	5.5		20		
SD-30-04	428412	1	612	282	71	2.06	128.8	77.7	420	121	141	121	2.97	105.35	0.781	0.432	77.7	21.8	<0.5	SP/SM: Sand, silty, wood fibers, loose, fine grained, brown.	Slight Color in Xylenes		
		2																					Slight Color in Xylenes
		Average																77.7	22.3		0		
SD-38-06	429081	1	485	212	80	2.00	125.1	84.8	360	85	147	85	2.45	108.59	0.405	0.288	83.7	14.3	2	CL: Clay, silty, trace sand and gravel, stiff, reddish brown.	Brown Oil in Xylenes		
		2																					Brown Oil in Xylenes
		Average																84.0	14.5		1.5		
SD-23-06	428411	1	316	126	49	2.09	130.2	82.0	219	48	80	48	2.74	110.31	0.549	0.355	82.0	19.0	0	SP: Sand, little silt, loose, fine grained, brown.	No Color in Xylenes		
		2																					No Color in Xylenes
		Average																82.0	18.0		0.0		
SD-46-06	429080	1	417	178	56	2.03	126.6	81.8	285	66	112	66	2.83	107.07	0.533	0.347	81.8	17.7	<0.5	ML: Silt, sandy, stiff, reddish brown.	Slight Color in Xylenes		
		2																					Slight Color in Xylenes
		Average																81.8	18.2		0		
SD-47-06	429082	1	444	192	62	1.99	124.2	80.4	307	75	117	75	2.82	103.80	0.576	0.366	79.3	19.7	2	SP: Sand, medium grained, loose, dark brown. (04 depth)	Brown Oil in Xylenes		
		2																					Brown Oil in Xylenes
		Average																78.8	18.3		3		
SD-53-04	428414	1	558	240	70	2.03	126.9	80.8	334	94	146	94	2.70	106.44	0.580	0.387	80.3	18.8	1	SP: Sand, some silt, coarse grained, medium dense, poorly graded, brown.	Some Color in Xylenes		
		2																					Some Color in Xylenes
		Average																80.3	18.8		1.0		
<b>Average</b>			459	194	60	2.06	128.8	82.3	327.5	71.5	122.0	71.5	2.88	109.3	0.531	0.344	81.1	17.2	1.7				

**TABLE 3  
META ENVIRONMENTAL- SEDMIMENT SAMPLE RESULTS**

Parameter	SD-9	SD-15	SD-34	SD-37	SD-47	SD-48	SD-50	SD-51	SD-54	SD-56
Depth	2-4	4-6	0-2	2-4	2-4	6-8	8-10	6-8	2-4	2-4
Solids (%)	54.0	81.0	85.0	74.0	80.0	85.0	85.0	79.0	75.0	61.0
VOCs										
Benzene	<0.10	<0.13	<0.12	<0.14	4.99	<0.11	0.64	<0.13	2.38	8.95
Toluene	0.70	<0.13	0.18	0.15	30.3	0.30	7.76	0.48	4.68	23.4
Ethylbenzene	6.33	1.54	5.34	3.20	64.6	3.07	28.4	3.16	23.0	50.2
m/p-Xylene	5.99	1.16	3.22	2.41	52.4	2.71	27.0	3.11	16.0	37.6
Stryene	0.80	<0.13	0.22	<0.14	2.41	0.22	3.28	0.21	0.58	1.78
o-Xylene	3.18	0.68	2.14	1.32	28.5	1.70	14.3	1.38	8.37	19.9
1,2,4-Trimethylbenzene	10.7	1.73	5.83	4.25	49.2	4.68	31.7	4.56	16.4	33.1
Total VOCs	27.70	5.11	16.93	11.33	232.40	12.68	113.08	12.90	71.41	174.93
SVOCs										
Naphthalene	116	30.7	210	62.5	1,280	54.0	859	56.1	318	974
2-Methylnaphthalene	117	27.5	86.3	58.9	1,070	53.3	733	55.2	258	786
1-Methylnaphthalene	90.0	18.7	58.1	41.6	783	40.1	546	43.1	114	172
Acenaphthylene	8.67	1.23	3.89	2.44	29.2	3.31	72.6	3.05	9.36	17.4
Acenaphthene	75.1	15.0	61.2	34.6	517	27.3	102	33.4	101	127
Dibenzofuran	9.97	1.57	3.18	3.99	33.5	4.44	25.7	4.33	10.2	24.6
Fluorene	38.2	6.43	24.9	16.1	89.7	13.3	77.3	15.8	47.5	63.1
Phenanthrene	94.2	16.8	65.3	36.2	556	32.0	541	38.9	107	406
Anthracene	41.2	7.32	24.9	16.7	250	13.8	211	16.1	47.6	63.7
Fluoranthene	41.0	6.05	29.0	13.0	65.5	12.3	69.9	15.4	42.1	50.4
Pyrene	54.3	7.89	41.0	16.9	77.3	16.3	90.9	20.4	57.5	62.7
Benzo(a)anthracene	22.6	3.08	14.1	6.87	33.3	6.68	36.9	7.82	21.3	26.6
Chrysene	20.3	2.77	12.8	6.07	29.6	5.90	33.6	7.18	19.7	22.9
Benzo(b)fluoranthene	10.7	1.35	5.49	3.15	15.2	2.95	14.8	2.86	8.72	10.6
Benzo(k)fluoranthene	10.4	1.51	7.74	3.16	13.7	3.29	19.4	4.23	10.7	11.5
Benzo(a)pyrene	19.4	2.43	13.1	5.31	25.6	5.61	32.0	6.38	19.4	19.0
Indeno (1,2,3-cd)pyrene	9.04	1.00	8.07	2.34	15.0	2.56	18.3	2.80	9.02	9.92
Dibenzo(a,h)anthracene	1.71	0.21	1.00	0.51	3.44	0.53	3.89	0.52	1.67	2.24
Benzo(g,h,i)perylene	8.11	0.88	5.56	1.94	11.8	2.12	16.4	2.48	8.17	7.27
TOTAL SVOCs	787.9	152.42	675.63	332.28	4898.84	299.79	3503.69	336.05	1210.94	2856.93

All units report in mg/kg

**TABLE 4  
TEST AMERICA - SEDIMENT SAMPLE RESULTS**

Parameter (SVOCs-8270)	SD-1	SD-1	SD-1	SD-1	SD-2	SD-2	SD-2
Depth	0-2	2-4	4-6	6-8	2-4	4-6	6-8
Solids (%)	77.5	78.4	79.3	82.3	70.6	80.7	81.7
Acenaphthene	<0.43	<0.42	<0.42	<0.40	<0.47	<0.41	<0.40
Acenaphthylene	<0.43	<0.42	<0.42	<0.40	<0.47	<0.41	<0.40
Antracene	<0.43	<0.42	<0.42	<0.40	<0.47	<0.41	<0.40
Benzo(a)anthracene	<0.43	<0.42	<0.42	<0.40	<0.47	<0.41	<0.40
Benzo(b)fluoranthene	<0.43	<0.42	<0.42	<0.40	<0.47	<0.41	<0.40
Benzo(k)fluoranthene	<0.43	<0.42	<0.42	<0.40	<0.47	<0.41	<0.40
Benzo(g,h,l)perylene	<0.43	<0.42	<0.42	<0.40	<0.47	<0.41	<0.40
Benzo(a)pyrene	<0.43	<0.42	<0.42	<0.40	<0.47	<0.41	<0.40
Chrysene	<0.43	<0.42	<0.42	<0.40	<0.47	<0.41	<0.40
Dibenzo(a,h)anthracene	<0.43	<0.42	<0.42	<0.40	<0.47	<0.41	<0.40
Fluoranthene	<0.43	<0.42	<0.42	<0.40	<0.47	<0.41	<0.40
Fluorene	<0.43	<0.42	<0.42	<0.40	<0.47	<0.41	<0.40
Indeno (1,2,3-cd)pyrene	<0.43	<0.42	<0.42	<0.40	<0.47	<0.41	<0.40
2-Methylnaphthalene	<0.43	<0.42	<0.42	<0.40	<0.47	<0.41	<0.40
Naphthalene	<0.43	<0.42	<0.42	<0.40	<0.47	<0.41	<0.40
Phenanthrene	<0.43	<0.42	<0.42	<0.40	<0.47	<0.41	<0.40
Pyrene	<0.43	<0.42	<0.42	<0.40	<0.47	<0.41	<0.40
TOTAL PAHs	0	0	0	0	0	0	0

All units report in mg/kg

TABLE 4

## TEST AMERICA - SEDIMENT SAMPLE RESULTS

Parameter (VOCs-8260)	SD-1	SD-1	SD-1	SD-1	SD-2	SD-2	SD-2
	Depth 0-2	2-4	4-6	6-8	2-4	4-6	6-8
Benzene	<32	<32	<32	<30	<35	<31	<31
Bromobenzene	<32	<32	<32	<30	<35	<31	<31
Bromochloromethane	<32	<32	<32	<30	<35	<31	<31
Bromodichloromethane	<32	<32	<32	<30	<35	<31	<31
Bromoform	<32	<32	<32	<30	<35	<31	<31
Bromomethane	<129	<128	<126	<122	<142	<124	<122
n-Butylbenzene	<32	<32	<32	<30	<35	<31	<31
sec-Butylbenzene	<32	<32	<32	<30	<35	<31	<31
tert-Butylbenzene	<32	<32	<32	<30	<35	<31	<31
Carbon Tetrachloride	<32	<32	<32	<30	<35	<31	<31
Chlorobenzene	<32	<32	<32	<30	<35	<31	<31
Chlorodibromomethane	<32	<32	<32	<30	<35	<31	<31
Chloroethane	<45	<45	<44	<43	<50	<43	<43
Chloroform	<32	<32	<32	<30	<35	<31	<31
Chloromethane	<65	<64	<63	<61	<71	<62	<61
2-Chlorotoluene	<32	<32	<32	<30	<35	<31	<31
4-Chlorotoluene	<32	<32	<32	<30	<35	<31	<31
1,2-Dibromo-3-Chloropropane	<65	<64	<63	<61	<71	<62	<61
1,2-Dibromomethane (EDB)	<32	<32	<32	<30	<35	<31	<31
Dibromomethane	<32	<32	<32	<30	<35	<31	<31
1,2-Dichlorobenzene	<32	<32	<32	<30	<35	<31	<31
1,3-Dichlorobenzene	<32	<32	<32	<30	<35	<31	<31
1,4-Dichlorobenzene	<32	<32	<32	<30	<35	<31	<31
Dichlorodifluoromethane	<32	<32	<32	<30	<35	<31	<31
1,1-Dichloroethane	<32	<32	<32	<30	<35	<31	<31
1,2-Dichloroethane	<32	<32	<32	<30	<35	<31	<31
1,1-Dichloroethene	<32	<32	<32	<30	<35	<31	<31
cis-1,2-Dichloroethene	<32	<32	<32	<30	<35	<31	<31
trans-1,2-Dichloroethene	<32	<32	<32	<30	<35	<31	<31
1,2-Dichloropropane	<32	<32	<32	<30	<35	<31	<31
1,3-Dichloropropane	<32	<32	<32	<30	<35	<31	<31
2,2-Dichloropropane	<32	<32	<32	<30	<35	<31	<31
1,1-Dichloropropene	<32	<32	<32	<30	<35	<31	<31
cis-1,3-Dichloropropene	<32	<32	<32	<30	<35	<31	<31
trans-1,3-Dichloropropene	<32	<32	<32	<30	<35	<31	<31
Di-isopropyl ether	<32	<32	<32	<30	<35	<31	<31
Ethylbenzene	<32	<32	<32	<30	<35	<31	<31
Hexachlorobutadiene	<45	<45	<44	<43	<50	<43	<43
Isopropylbenzene	<32	<32	<32	<30	<35	<31	<31
p-Isopropyltoluene	<32	<32	<32	<30	<35	<31	<31
Methylene Chloride	<65	<64	164 L	134 L	<71	<62	<61
Methyl-t-butyl-ether	<32	<32	<32	<30	<35	<31	<31
Naphthalene	<32	<32	<32	<30	<35	<31	<31
n-Propylbenzene	<32	<32	<32	<30	<35	<31	<31
Styrene	<32	<32	<32	<30	<35	<31	<31
1,1,1,2-Tetrachloroethane	<32	<32	<32	<30	<35	<31	<31
1,1,2,2-Tetrachloroethane	<32	<32	<32	<30	<35	<31	<31
Tetrachloroethane	<32	<32	<32	<30	<35	<31	<31
Toluene		46	<32	<30	<35	<31	<31
1,2,3-Trichlorobenzene	<32	<32	<32	<30	<35	<31	<31
1,2,4-Trichlorobenzene	<32	<32	<32	<30	<35	<31	<31
1,1,1-Trichloroethane	<32	<32	<32	<30	<35	<31	<31
1,1,2-Trichloroethane	<32	<32	<32	<30	<35	<31	<31
Trichloroethene	<32	<32	<32	<30	<35	<31	<31
Trichlorofluoromethane	<32	<32	<32	<30	<35	<31	<31
1,2,3-Trichloropropane	<32	<32	<32	<30	<35	<31	<31
1,2,4-Trimethylbenzene	<32	<32	<32	<30	<35	<31	<31
1,3,5-Trimethylbenzene	<32	<32	<32	<30	<35	<31	<31
Vinyl Chloride	<32	<32	<32	<30	<35	<31	<31
Xylene, total	<45	<45	<44	<43	<50	<43	<43

TOTAL VOCs + Naphthalene

46

0

0

0

0

0

0

2 of 60

All units report in µg/kg

**TABLE 4  
TEST AMERICA - SEDIMENT SAMPLE RESULTS**

Parameter (SVOCs-8270)	SD-3	SD-3	SD-3	SD-3	SD-4	SD-4	SD-4	SD-4
Depth	0-2	2-4	4-6	6-8	0-2	2-4	4-6	6-8
Solids (%)	65.6	80.0	80.0	82.0	48.6	81.3	83.4	83.3
Acenaphthene	<0.50	<0.41	<0.41	<0.40	<0.68	<0.41	<0.40	<0.40
Acenaphthylene	<0.50	<0.41	<0.41	<0.40	<0.68	<0.41	<0.40	<0.40
Antracene	<0.50	<0.41	<0.41	<0.40	<0.68	<0.41	<0.40	<0.40
Benzo(a)anthracene	<0.50	<0.41	<0.41	<0.40	<0.68	<0.41	<0.40	<0.40
Benzo(b)fluoranthene	<0.50	<0.41	<0.41	<0.40	<0.68	<0.41	<0.40	<0.40
Benzo(k)fluoranthene	<0.50	<0.41	<0.41	<0.40	<0.68	<0.41	<0.40	<0.40
Benzo(g,h,l)perylene	<0.50	<0.41	<0.41	<0.40	<0.68	<0.41	<0.40	<0.40
Benzo(a)pyrene	<0.50	<0.41	<0.41	<0.40	<0.68	<0.41	<0.40	<0.40
Chrysene	<0.50	<0.41	<0.41	<0.40	<0.68	<0.41	<0.40	<0.40
Dibenzo(a,h)anthracene	<0.50	<0.41	<0.41	<0.40	<0.68	<0.41	<0.40	<0.40
Fluoranthene	0.5	<0.41	<0.41	<0.40	<0.68	<0.41	<0.40	<0.40
Fluorene	<0.50	<0.41	<0.41	<0.40	<0.68	<0.41	<0.40	<0.40
Indeno (1,2,3-cd)pyrene	<0.50	<0.41	<0.41	<0.40	<0.68	<0.41	<0.40	<0.40
2-Methylnaphthalene	<0.50	<0.41	<0.41	<0.40	<0.68	<0.41	<0.40	<0.40
Naphthalene	<0.50	<0.41	<0.41	<0.40	<0.68	<0.41	<0.40	<0.40
Phenanthrene	<0.50	<0.41	<0.41	<0.40	<0.68	<0.41	<0.40	<0.40
Pyrene	<0.50	<0.41	<0.41	<0.40	<0.68	<0.41	<0.40	<0.40
TOTAL PAHs	0.5	0	0	0	0	0	0	0

All units report in mg/kg

TABLE 4

## TEST AMERICA - SEDIMENT SAMPLE RESULTS

Parameter (VOCs-8260)	TEST AMERICA - SEDIMENT SAMPLE RESULTS							
	SD-3	SD-3	SD-3	SD-3	SD-4	SD-4	SD-4	SD-4
Depth	0-2	2-4	4-6	6-8	0-2	2-4	4-6	6-8
Benzene	<38	<31	<31	<30	<51	<31	<30	55
Bromobenzene	<38	<31	<31	<30	<51	<31	<30	<30
Bromochloromethane	<38	<31	<31	<30	<51	<31	<30	<30
Bromodichloromethane	<38	<31	<31	<30	<51	<31	<30	<30
Bromoform	<38	<31	<31	<30	<51	<31	<30	<30
Bromomethane	<152	<125	<125	<122	<206	<123	<120	<120
n-Butylbenzene	<38	<31	<31	<30	<51	<31	<30	<30
sec-Butylbenzene	<38	<31	<31	<30	<51	<31	<30	<30
tert-Butylbenzene	<38	<31	<31	<30	<51	<31	<30	<30
Carbon Tetrachloride	<38	<31	<31	<30	<51	<31	<30	<30
Chlorobenzene	<38	<31	<31	<30	<51	<31	<30	<30
Chlorodibromomethane	<38	<31	<31	<30	<51	<31	<30	<30
Chloroethane	<38	<44	<44	<43	<72	<43	<42	<42
Chloroform	<38	<31	<31	<30	<51	<31	<30	<30
Chloromethane	<76	<62	<62	<61	<100	<62	<60	<60
2-Chlorotoluene	<38	<31	<31	<30	<51	<31	<30	<30
4-Chlorotoluene	<38	<31	<31	<30	<51	<31	<30	<30
1,2-Dibromo-3-Chloropropane	<76	<62	<62	<61	<100	<62	<60	<60
1,2-Dibromomethane (EDB)	<38	<31	<31	<30	<51	<31	<30	<30
Dibromomethane	<38	<31	<31	<30	<51	<31	<30	<30
1,2-Dichlorobenzene	<38	<31	<31	<30	<51	<31	<30	<30
1,3-Dichlorobenzene	<38	<31	<31	<30	<51	<31	<30	<30
1,4-Dichlorobenzene	<38	<31	<31	<30	<51	<31	<30	<30
Dichlorodifluoromethane	<38	<31	<31	<30	<51	<31	<30	<30
1,1-Dichloroethane	<38	<31	<31	<30	<51	<31	<30	<30
1,2-Dichloroethane	<38	<31	<31	<30	<51	<31	<30	<30
1,1-Dichloroethene	<38	<31	<31	<30	<51	<31	<30	<30
cis-1,2-Dichloroethene	<38	<31	<31	<30	<51	<31	<30	<30
trans-1,2-Dichloroethene	<38	<31	<31	<30	<51	<31	<30	<30
1,2-Dichloropropane	<38	<31	<31	<30	<51	<31	<30	<30
1,3-Dichloropropane	<38	<31	<31	<30	<51	<31	<30	<30
2,2-Dichloropropane	<38	<31	<31	<30	<51	<31	<30	<30
1,1-Dichloropropene	<38	<31	<31	<30	<51	<31	<30	<30
cis-1,3-Dichloropropene	<38	<31	<31	<30	<51	<31	<30	<30
trans-1,3-Dichloropropene	<38	<31	<31	<30	<51	<31	<30	<30
Di-isopropyl ether	<38	<31	<31	<30	<51	<31	<30	<30
Ethylbenzene	<38	<31	<31	<30	<51	<31	<30	<30
Hexachlorobutadiene	<53	<44	<44	<43	<72	<43	<42	<42
Isopropylbenzene	<38	<31	<31	<30	<51	<31	<30	<30
p-Isopropyltoluene	1,520	<31	<31	<30	267	<31	<30	<30
Methylene Chloride	<76	88 L	<31	159 L	<100	<62	88 L	420
Methyl-t-butyl-ether	<38	<31	<31	<30	<51	<31	<30	<30
Naphthalene	<38	<31	<31	<30	<51	<31	<30	<30
n-Propylbenzene	<38	<31	<31	<30	<51	<31	<30	<30
Styrene	<38	<31	<31	<30	<51	<31	<30	<30
1,1,1,2-Tetrachloroethane	<38	<31	<31	<30	<51	<31	<30	<30
1,1,2,2-Tetrachloroethane	<38	<31	<31	<30	<51	<31	<30	<30
Tetrachloroethane	<38	<31	<31	<30	<51	<31	<30	<30
Toluene	<38	<31	<31	<30	391	<31	<30	<30
1,2,3-Trichlorobenzene	53	<31	<31	<30	<51	<31	<30	<30
1,2,4-Trichlorobenzene	<38	<31	<31	<30	<51	<31	<30	<30
1,1,1-Trichloroethane	<38	<31	<31	<30	<51	<31	<30	<30
1,1,2-Trichloroethane	<38	<31	<31	<30	<51	<31	<30	<30
Trichloroethene	<38	<31	<31	<30	<51	<31	<30	<30
Trichlorofluoromethane	<38	<31	<31	<30	<51	<31	<30	<30
1,2,3-Trichloropropane	<38	<31	<31	<30	<51	<31	<30	<30
1,2,4-Trimethylbenzene	<38	<31	<31	<30	<51	<31	<30	<30
1,3,5-Trimethylbenzene	<38	<31	<31	<30	<51	<31	<30	<30
Vinyl Chloride	<38	<31	<31	<30	<51	<31	<30	<30
Xylene, total	<53	<44	<44	<43	<72	<43	<42	<42

TOTAL VOCs + Naphthalene 1573 0 0 0 658 0 0 475

**TABLE 4  
TEST AMERICA - SEDIMENT SAMPLE RESULTS**

Parameter (SVOCs-8270)	SD-5	SD-5	SD-5	SD-6	SD-6	SD-6	SD-6
Depth	2-4	4-6	6-8	0-2	2-4	4-6	8-10
Solids (%)	73.0	75.2	80.7	49.6	78.2	80.7	85.2
Acenaphthene	<0.45	<0.44	<0.41	65	<0.63	<0.41	<0.39
Acenaphthylene	<0.45	<0.44	<0.41	6.0	<0.63	<0.41	<0.39
Antracene	<0.45	<0.44	<0.41	28	<0.63	<0.41	<0.39
Benzo(a)anthracene	<0.45	<0.44	<0.41	10	<0.63	<0.41	<0.39
Benzo(b)fluoranthene	<0.45	<0.44	<0.41	3.4	<0.63	<0.41	<0.39
Benzo(k)fluoranthene	<0.45	<0.44	<0.41	4.6	<0.63	<0.41	<0.39
Benzo(g,h,i)perylene	<0.45	<0.44	<0.41	<3.2	<0.63	<0.41	<0.39
Benzo(a)pyrene	<0.45	<0.44	<0.41	7.3	<0.63	<0.41	<0.39
Chrysene	<0.45	<0.44	<0.41	9.1	<0.63	<0.41	<0.39
Dibenzo(a,h)anthracene	<0.45	<0.44	<0.41	<0.67	<0.63	<0.41	<0.39
Fluoranthene	<0.45	<0.44	<0.41	26	<0.63	<0.41	<0.39
Fluorene	<0.45	<0.44	<0.41	30	<0.63	<0.41	<0.39
Indeno (1,2,3-cd)pyrene	<0.45	<0.44	<0.41	<3.2	<0.63	<0.41	<0.39
2-Methylnaphthalene	<0.45	<0.44	<0.41	160	0.66	<0.41	<0.39
Naphthalene	<0.45	<0.44	<0.41	222	0.97	<0.41	<0.39
Phenanthrene	<0.45	<0.44	<0.41	77	0.69	<0.41	<0.39
Pyrene	<0.45	<0.44	<0.41	34	<0.63	<0.41	<0.39
TOTAL PAHs	0	0	0	549	2.32	0	0

All units report in mg/kg



TABLE 4

## TEST AMERICA - SEDIMENT SAMPLE RESULTS

Parameter (VOCs-8260)	Depth	SD-5	SD-5	SD-5	SD-6	SD-6	SD-6	SD-6
		2-4	4-6	6-8	0-2	2-4	4-6	8-10
Benzene		<34	<33	<31	<10,100	<32	<31	<29
Bromobenzene		<34	<33	<31	<10,100	<32	<31	<29
Bromochloromethane		<34	<33	<31	<10,100	<32	<31	<29
Bromodichloromethane		<34	<33	<31	<10,100	<32	<31	<29
Bromoform		<34	<33	<31	<10,100	<32	<31	<29
Bromomethane		<137	<133	<124	<40,300	<128	<124	<117
n-Butylbenzene		<34	<33	<31	<10,100	<32	<31	<29
sec-Butylbenzene		<34	<33	<31	<10,100	<32	<31	<29
tert-Butylbenzene		<34	<33	<31	<10,100	<32	<31	<29
Carbon Tetrachloride		<34	<33	<31	<10,100	<32	<31	<29
Chlorobenzene		<34	<33	<31	<10,100	<32	<31	<29
Chlorodibromomethane		<34	<33	<31	<10,100	<32	<31	<29
Chloroethane		<48	<47	<43	<14,100	<45	<43	<41
Chloroform		<34	<33	<31	<10,100	<32	<31	<29
Chloromethane		<68	<66	<62	<20,200	<64	<62	<59
2-Chlorotolunene		<34	<33	<31	<10,100	<32	<31	<29
4-Chlorotolunene		<34	<33	<31	<10,100	<32	<31	<29
1,2-Dibromo-3-Chloropropane		<68	<66	<62	<20,200	<64	<62	<59
1,2-Dibromomethane (EDB)		<34	<33	<31	<10,100	<32	<31	<29
Dibromomethane		<34	<33	<31	<10,100	<32	<31	<29
1,2-Dichlorobenzene		<34	<33	<31	<10,100	<32	<31	<29
1,3-Dichlorobenzene		<34	<33	<31	<10,100	<32	<31	<29
1,4-Dichlorobenzene		<34	<33	<31	<10,100	<32	<31	<29
Dichlorodifluoromethane		<34	<33	<31	<10,100	<32	<31	<29
1,1-Dichloroethane		<34	<33	<31	<10,100	<32	<31	<29
1,2-Dichloroethane		<34	<33	<31	<10,100	<32	<31	<29
1,1-Dichloroethene		<34	<33	<31	<10,100	<32	<31	<29
cis-1,2-Dichloroethene		<34	<33	<31	<10,100	<32	<31	<29
trans-1,2-Dichloroethene		<34	<33	<31	<10,100	<32	<31	<29
1,2-Dichloropropane		<34	<33	<31	<10,100	<32	<31	<29
1,3-Dichloropropane		<34	<33	<31	<10,100	<32	<31	<29
2,2-Dichloropropane		<34	<33	<31	<10,100	<32	<31	<29
1,1-Dichloropropene		<34	<33	<31	<10,100	<32	<31	<29
cis-1,3-Dichloropropene		<34	<33	<31	<10,100	<32	<31	<29
trans-1,3-Dichloropropene		<34	<33	<31	<10,100	<32	<31	<29
Di-isopropyl ether		<34	<33	<31	<10,100	<32	<31	<29
Ethylbenzene		<34	<33	<31	<10,100	153	<31	<29
Hexachlorobutadiene		<48	<47	<43	<14,100	<45	<43	<41
Isopropylbenzene		<34	<33	<31	<10,100	<32	<31	<29
p-Isopropyltoluene		1,330	<33	<31	<10,100	<32	<31	<29
Methylene Chloride		<68	<66	<62	<20,200	73 L	90 L	73 L
Methyl-t-butyl-ether		<34	<33	<31	<10,100	<32	<31	<29
Naphthalene		<34	<33	<31	242,000	1,130	186	<29
n-Propylbenzene		<34	<33	<31	<10,100	<32	<31	<29
Styrene		<34	<33	<31	<10,100	<32	<31	<29
1,1,1,2-Tetrachloroethane		<34	<33	<31	<10,100	<32	<31	<29
1,1,2,2-Tetrachloroethane		<34	<33	<31	<10,100	<32	<31	<29
Tetrachloroethane		<34	<33	<31	<10,100	<32	<31	<29
Toluene		<34	<33	<31	<10,100	<32	<31	<29
1,2,3-Trichlorobenzene		<34	<33	<31	<10,100	<32	<31	<29
1,2,4-Trichlorobenzene		<34	<33	<31	<10,100	<32	<31	<29
1,1,1-Trichloroethane		<34	<33	<31	<10,100	<32	<31	<29
1,1,2-Trichloroethane		<34	<33	<31	<10,100	<32	<31	<29
Trichloroethene		<34	<33	<31	<10,100	<32	<31	<29
Trichlorofluoromethane		<34	<33	<31	<10,100	<32	<31	<29
1,2,3-Trichloropropane		<34	<33	<31	<10,100	<32	<31	<29
1,2,4-Trimethylbenzene		<34	<33	<31	<10,100	54	<31	<29
1,3,5-Trimethylbenzene		<34	<33	<31	<10,100	<32	<31	<29
Vinyl Chloride		<34	<33	<31	<10,100	<32	<31	<29
Xylene, total		<48	<47	<43	<14,100	141	<43	<41

TOTAL VOCs + Naphthalene

1330

0

6 of 60

0 242000

1478

186

0

All units report in µg/kg

**TABLE 4  
TEST AMERICA - SEDIMENT SAMPLE RESULTS**

Parameter (SVOCs-8270)	SD-7	SD-7	SD-7	SD-7	SD-8	SD-8	SD-8
Depth	0-2	2-4	4-6	6-8	2-4	4-6	6-8
Solids (%)	70.9	77.7	85.4	82.2	77.9	80.5	82.6
Acenaphthene	34	<0.42	<0.39	<0.40	<0.42	<0.41	<0.40
Acenaphthylene	3.8	<0.42	<0.39	<0.40	<0.42	<0.41	<0.40
Anthracene	17	<0.42	<0.39	<0.40	<0.42	<0.41	<0.40
Benzo(a)anthracene	8.2	<0.42	<0.39	<0.40	<0.42	<0.41	<0.40
Benzo(b)fluoranthene	3.1	<0.42	<0.39	<0.40	<0.42	<0.41	<0.40
Benzo(k)fluoranthene	3.9	<0.42	<0.39	<0.40	<0.42	<0.41	<0.40
Benzo(g,h,i)perylene	2.7	<0.42	<0.39	<0.40	<0.42	<0.41	<0.40
Benzo(a)pyrene	6.2	<0.42	<0.39	<0.40	<0.42	<0.41	<0.40
Chrysene	7.2	<0.42	<0.39	<0.40	<0.42	<0.41	<0.40
Dibenzo(a,h)anthracene	<2.3	<0.42	<0.39	<0.40	<0.42	<0.41	<0.40
Fluoranthene	17	<0.42	<0.39	<0.40	<0.42	<0.41	<0.40
Fluorene	17	<0.42	<0.39	<0.40	<0.42	<0.41	<0.40
Indeno (1,2,3-cd)pyrene	2.5	<0.42	<0.39	<0.40	<0.42	<0.41	<0.40
2-Methylnaphthalene	69	<0.42	<0.39	<0.40	<0.42	<0.41	<0.40
Naphthalene	82	<0.42	<0.39	<0.40	<0.42	<0.41	<0.40
Phenanthrene	42	<0.42	<0.39	<0.40	<0.42	<0.41	<0.40
Pyrene	23	<0.42	<0.39	<0.40	<0.42	<0.41	<0.40
TOTAL PAHs	252.5	0	0	0	0	0	0

All units report in mg/kg

**TABLE 4**  
**TEST AMERICA - SEDIMENT SAMPLE RESULTS**

Parameter (VOCs-8260)	SD-7	SD-7	SD-7	SD-7	SD-8	SD-8	SD-8
Depth	0-2	2-4	4-6	6-8	2-4	4-6	6-8

Benzene	<3,530	<32	<29	<30	<36	<31	<30
Bromobenzene	<3,530	<32	<29	<30	<36	<31	<30
Bromochloromethane	<3,530	<32	<29	<30	<36	<31	<30
Bromodichloromethane	<3,530	<32	<29	<30	<36	<31	<30
Bromoform	<3,530	<32	<29	<30	<36	<31	<30
Bromomethane	<14,100	<129	<117	<122	<141	<124	<121
n-Butylbenzene	<3,530	<32	<29	<30	<36	<31	<30
sec-Butylbenzene	<3,530	<32	<29	<30	<36	<31	<30
tert-Butylbenzene	<3,530	<32	<29	<30	<36	<31	<30
Carbon Tetrachloride	<3,530	<32	<29	<30	<36	<31	<30
Chlorobenzene	<3,530	<32	<29	<30	<36	<31	<30
Chlorodibromomethane	<3,530	<32	<29	<30	<36	<31	<30
Chloroethane	<4,940	<45	<41	<43	<49	<43	<42
Chloroform	<3,530	<32	<29	<30	<36	<31	<30
Chloromethane	<7,050	<64	<59	<61	<71	<62	<61
2-Chlorotoluene	<3,530	<32	<29	<30	<36	<31	<30
4-Chlorotoluene	<3,530	<32	<29	<30	<36	<31	<30
1,2-Dibromo-3-Chloropropane	<7,050	<64	<59	<61	<71	<62	<61
1,2-Dibromomethane (EDB)	<3,530	<32	<29	<30	<36	<31	<30
Dibromomethane	<3,530	<32	<29	<30	<36	<31	<30
1,2-Dichlorobenzene	<3,530	<32	<29	<30	<36	<31	<30
1,3-Dichlorobenzene	<3,530	<32	<29	<30	<36	<31	<30
1,4-Dichlorobenzene	<3,530	<32	<29	<30	<36	<31	<30
Dichlorodifluoromethane	<3,530	<32	<29	<30	<36	<31	<30
1,1-Dichloroethane	<3,530	<32	<29	<30	<36	<31	<30
1,2-Dichloroethane	<3,530	<32	<29	<30	<36	<31	<30
1,1-Dichloroethene	<3,530	<32	<29	<30	<36	<31	<30
cis-1,2-Dichloroethene	<3,530	<32	<29	<30	<36	<31	<30
trans-1,2-Dichloroethene	<3,530	<32	<29	<30	<36	<31	<30
1,2-Dichloropropane	<3,530	<32	<29	<30	<36	<31	<30
1,3-Dichloropropane	<3,530	<32	<29	<30	<36	<31	<30
2,2-Dichloropropane	<3,530	<32	<29	<30	<36	<31	<30
1,1-Dichloropropene	<3,530	<32	<29	<30	<36	<31	<30
cis-1,3-Dichloropropene	<3,530	<32	<29	<30	<36	<31	<30
trans-1,3-Dichloropropene	<3,530	<32	<29	<30	<36	<31	<30
Di-isopropyl ether	<3,530	<32	<29	<30	<36	<31	<30
Ethylbenzene	<3,530		72	<30	<36	<31	<30
Hexachlorobutadiene	<4,940	<45	<41	<43	<49	<43	<42
Isopropylbenzene	<3,530	<32	<29	<30	<36	<31	<30
p-Isopropyltoluene	<3,530	<32	<29	<30	<36	<31	<30
Methylene Chloride	<7,050	<64		63 L	100 L	<71	65 L 85 L
Methyl-t-butyl-ether	<3,530	<32	<29	<30	<36	<31	<30
Naphthalene	59,200		656	<29	<30	<36	<31 <30
n-Propylbenzene	<3,530	<32	<29	<30	<36	<31	<30
Styrene	<3,530	<32	<29	<30	<36	<31	<30
1,1,1,2-Tetrachloroethane	<3,530	<32	<29	<30	<36	<31	<30
1,1,1,2,2-Tetrachloroethane	<3,530	<32	<29	<30	<36	<31	<30
Tetrachloroethane	<3,530	<32	<29	<30	<36	<31	<30
Toluene	<3,530	<32	<29	<30	<36	<31	<30
1,2,3-Trichlorobenzene	<3,530	<32	<29	<30	<36	<31	<30
1,2,4-Trichlorobenzene	<3,530	<32	<29	<30	<36	<31	<30
1,1,1-Trichloroethane	<3,530	<32	<29	<30	<36	<31	<30
1,1,2-Trichloroethane	<3,530	<32	<29	<30	<36	<31	<30
Trichloroethene	<3,530	<32	<29	<30	<36	<31	<30
Trichlorofluoromethane	<3,530	<32	<29	<30	<36	<31	<30
1,2,3-Trichloropropane	<3,530	<32	<29	<30	<36	<31	<30
1,2,4-Trimethylbenzene	3,670		33	<29	<30	<36	<31 <30
1,3,5-Trimethylbenzene	<3,530	<32	<29	<30	<36	<31	<30
Vinyl Chloride	<3,530	<32	<29	<30	<36	<31	<30
Xylene, total	<4,940		63	<41	<43	<49	<43 <42
TOTAL VOCs + Naphthalene	62870		824	0	0	0	0 0

**TABLE 4  
TEST AMERICA - SEDIMENT SAMPLE RESULTS**

Parameter (SVOCs-8270)	SD-9	SD-9	SD-10	SD-10
Depth	4-6	6-8	4-6	6-8
Solids (%)	80.3	83.7	78.3	80.8
Acenaphthene	0.57	<0.39	<0.42	<0.41
Acenaphthylene	<0.41	<0.39	<0.42	<0.41
Anthracene	<0.41	<0.39	<0.42	<0.41
Benzo(a)anthracene	<0.41	<0.39	<0.42	<0.41
Benzo(b)fluoranthene	<0.41	<0.39	<0.42	<0.41
Benzo(k)fluoranthene	<0.41	<0.39	<0.42	<0.41
Benzo(g,h,i)perylene	<0.41	<0.39	<0.42	<0.41
Benzo(a)pyrene	<0.41	<0.39	<0.42	<0.41
Chrysene	<0.41	<0.39	<0.42	<0.41
Dibenzo(a,h)anthracene	<0.41	<0.39	<0.42	<0.41
Fluoranthene	<0.41	<0.39	<0.42	<0.41
Fluorene	<0.41	<0.39	<0.42	<0.41
Indeno (1,2,3-cd)pyrene	<0.41	<0.39	<0.42	<0.41
2-Methylnaphthalene	1.1	<0.39	<0.42	<0.41
Naphthalene	1.5	<0.39	<0.42	<0.41
Phenanthrene	<0.41	<0.39	<0.42	<0.41
Pyrene	<0.41	<0.39	<0.42	<0.41
TOTAL PAHs	2.6	0	0	0

All units report in mg/kg

**TABLE 4**  
**TEST AMERICA - SEDIMENT SAMPLE RESULTS**  
Parameter (VOCs-8260)      SD-9      SD-9      SD-10      SD-10  
Depth      4-6      6-8      4-6      6-8

Benzene	<31	<30	<32	<31
Bromobenzene	<31	<30	<32	<31
Bromochloromethane	<31	<30	<32	<31
Bromodichloromethane	<31	<30	<32	<31
Bromoform	<31	<30	<32	<31
Bromomethane	<125	<119	<128	<124
n-Butylbenzene	<31	<30	<32	<31
sec-Butylbenzene	<31	<30	<32	<31
tert-Butylbenzene	<31	<30	<32	<31
Carbon Tetrachloride	<31	<30	<32	<31
Chlorobenzene	<31	<30	<32	<31
Chlorodibromomethane	<31	<30	<32	<31
Chloroethane	<44	<42	<45	<43
Chloroform	<31	<30	<32	<31
Chloromethane	<62	<60	<64	<62
2-Chlorotolunene	<31	<30	<32	<31
4-Chlorotolunene	<31	<30	<32	<31
1,2-Dibromo-3-Chloropropane	<62	<60	<64	<62
1,2-Dibromomethane (EDB)	<31	<30	<32	<31
Dibromomethane	<31	<30	<32	<31
1,2-Dichlorobenzene	<31	<30	<32	<31
1,3-Dichlorobenzene	<31	<30	<32	<31
1,4-Dichlorobenzene	<31	<30	<32	<31
Dichlorodifluoromethane	<31	<30	<32	<31
1,1-Dichloroethane	<31	<30	<32	<31
1,2-Dichloroethane	<31	<30	<32	<31
1,1-Dichloroethene	<31	<30	<32	<31
cis-1,2-Dichloroethene	<31	<30	<32	<31
trans-1,2-Dichloroethene	<31	<30	<32	<31
1,2-Dichloropropane	<31	<30	<32	<31
1,3-Dichloropropane	<31	<30	<32	<31
2,2-Dichloropropane	<31	<30	<32	<31
1,1-Dichloropropene	<31	<30	<32	<31
cis-1,3-Dichloropropene	<31	<30	<32	<31
trans-1,3-Dichloropropene	<31	<30	<32	<31
Di-isopropyl ether	<31	<30	<32	<31
Ethylbenzene		149	<32	<31
Hexachlorobutadiene	<44	<42	<45	<43
Isopropylbenzene	<31	<30	<32	<31
p-Isopropyltoluene		32		37
Methylene Chloride	<62	<60	84 L	120 L
Methyl-t-butyl-ether	<31	<30	<32	<31
Naphthalene		2,490	57	77
n-Propylbenzene	<31	<30	<32	<31
Styrene	<31	<30	<32	<31
1,1,1,2-Tetrachloroethane	<31	<30	<32	<31
1,1,2,2-Tetrachloroethane	<31	<30	<32	<31
Tetrachloroethane	<31	<30	<32	<31
Toluene	<31	<30	153	<31
1,2,3-Trichlorobenzene	<31	<30	<32	<31
1,2,4-Trichlorobenzene	<31	<30	<32	<31
1,1,1-Trichloroethane	<31	<30	<32	<31
1,1,2-Trichloroethane	<31	<30	<32	<31
Trichloroethene	<31	<30	<32	<31
Trichlorofluoromethane	<31	<30	<32	<31
1,2,3-Trichloropropane	<31	<30	<32	<31
1,2,4-Trimethylbenzene		137	<32	<31
1,3,5-Trimethylbenzene		54	<32	<31
Vinyl Chloride	<31	<30	<32	<31
Xylene, total		212	<42	92
TOTAL VOCs + Naphthalene		3074	57	359
		10 of 60		0

All units report in µg/kg

**TABLE 4  
TEST AMERICA - SEDIMENT SAMPLE RESULTS**

Parameter (SVOCs-8270)	SD-11	SD-11	SD-11	SD-11	SD-12	SD-12	SD-12
Depth	0-2	2-4	4-6	6-8	2-4	4-6	6-8
Solids (%)	70.8	77.2	80.5	84.0	75.9	84.9	83.5
Acenaphthene	1.1	<0.43	<0.41	<0.39	1.8	<0.39	<0.40
Acenaphthylene	0.49	<0.43	<0.41	<0.39	<0.43	<0.39	<0.40
Anthracene	1.1	<0.43	<0.41	<0.39	0.59	<0.39	<0.40
Benzo(a)anthracene	1.1	<0.43	<0.41	<0.39	<0.43	<0.39	<0.40
Benzo(b)fluoranthene	0.61	<0.43	<0.41	<0.39	<0.43	<0.39	<0.40
Benzo(k)fluoranthene	0.73	<0.43	<0.41	<0.39	<0.43	<0.39	<0.40
Benzo(g,h,i)perylene	0.58	<0.43	<0.41	<0.39	<0.43	<0.39	<0.40
Benzo(a)pyrene	1.2	<0.43	<0.41	<0.39	<0.43	<0.39	<0.40
Chrysene	1.2	<0.43	<0.41	<0.39	<0.43	<0.39	<0.40
Dibenzo(a,h)anthracene	<0.47	<0.43	<0.41	<0.39	<0.43	<0.39	<0.40
Fluoranthene	2.3	<0.43	<0.41	<0.39	0.99	<0.39	<0.40
Fluorene	<0.47	<0.43	<0.41	<0.39	0.75	<0.39	<0.40
Indeno (1,2,3-cd)pyrene	0.56	<0.43	<0.41	<0.39	<0.43	<0.39	<0.40
2-Methylnaphthalene	1.4	<0.43	<0.41	<0.39	2.8	<0.39	<0.40
Naphthalene	1.6	<0.43	<0.41	<0.39	5.9	<0.39	<0.40
Phenanthrene	3.4	<0.43	<0.41	<0.39	2.4	<0.39	<0.40
Pyrene	4.0	<0.43	<0.41	<0.39	1.4	<0.39	<0.40
TOTAL PAHs	13.26	0	0	0	14.24	0	0

All units reported in mg/kg

TABLE 4

## TEST AMERICA - SEDIMENT SAMPLE RESULTS

Parameter (VOCs-8260)	SD-11	SD-11	SD-11	SD-11	SD-12	SD-12	SD-12
	Depth	0-2	2-4	4-6	6-8	2-4	4-6
Benzene	<35	<32	<31	<30	<33	<29	<30
Bromobenzene	<35	<32	<31	<30	<33	<29	<30
Bromochloromethane	<35	<32	<31	<30	<33	<29	<30
Bromodichloromethane	<35	<32	<31	<30	<33	<29	<30
Bromoform	<35	<32	<31	<30	<33	<29	<30
Bromomethane	<141	<130	<124	<119	<132	<118	<120
n-Butylbenzene	<35	<32	<31	<30	<33	<29	<30
sec-Butylbenzene	<35	<32	<31	<30	<33	<29	<30
tert-Butylbenzene	<35	<32	<31	<30	<33	<29	<30
Carbon Tetrachloride	<35	<32	<31	<30	<33	<29	<30
Chlorobenzene	<35	<32	<31	<30	<33	<29	<30
Chlorodibromomethane	<35	<32	<31	<30	<33	<29	<30
Chloroethane	<49	<45	<43	<42	<46	<41	<42
Chloroform	<35	<32	<31	<30	<33	<29	<30
Chloromethane	<71	<65	<62	<60	<66	<59	<60
2-Chlorotoluene	<35	<32	<31	<30	<33	<29	<30
4-Chlorotoluene	<35	<32	<31	<30	<33	<29	<30
1,2-Dibromo-3-Chloropropane	<74	<65	<62	<60	<66	<59	<60
1,2-Dibromomethane (EDB)	<35	<32	<31	<30	<33	<29	<30
Dibromomethane	<35	<32	<31	<30	<33	<29	<30
1,2-Dichlorobenzene	<35	<32	<31	<30	<33	<29	<30
1,3-Dichlorobenzene	<35	<32	<31	<30	<33	<29	<30
1,4-Dichlorobenzene	<35	<32	<31	<30	<33	<29	<30
Dichlorodifluoromethane	<35	<32	<31	<30	<33	<29	<30
1,1-Dichloroethane	<35	<32	<31	<30	<33	<29	<30
1,2-Dichloroethane	<35	<32	<31	<30	<33	<29	<30
1,1-Dichloroethene	<35	<32	<31	<30	<33	<29	<30
cis-1,2-Dichloroethene	<35	<32	<31	<30	<33	<29	<30
trans-1,2-Dichloroethene	<35	<32	<31	<30	<33	<29	<30
1,2-Dichloropropane	<35	<32	<31	<30	<33	<29	<30
1,3-Dichloropropane	<35	<32	<31	<30	<33	<29	<30
2,2-Dichloropropane	<35	<32	<31	<30	<33	<29	<30
1,1-Dichloropropene	<35	<32	<31	<30	<33	<29	<30
cis-1,3-Dichloropropene	<35	<32	<31	<30	<33	<29	<30
trans-1,3-Dichloropropene	<35	<32	<31	<30	<33	<29	<30
Di-isopropyl ether	<35	<32	<31	<30	<33	<29	<30
Ethylbenzene	<35	<32	<31	<30	40	<29	<30
Hexachlorobutadiene	<49	<45	<43	<42	<46	<41	<42
Isopropylbenzene	<35	<32	<31	<30	<33	<29	<30
p-Isopropyltoluene	282	142	<31	<30	<33	<29	<30
Methylene Chloride	<71	<32	71 L	190 L	72	<29	68 L
Methyl-t-butyl-ether	<35	<32	<31	<30	<33	<29	<30
Naphthalene	<35	<32	<31	<30	2,110	<29	407
n-Propylbenzene	<35	<32	<31	<30	<33	<29	<30
Styrene	<35	<32	<31	<30	<33	<29	<30
1,1,1,2-Tetrachloroethane	<35	<32	<31	<30	<33	<29	<30
1,1,2,2-Tetrachloroethane	<35	<32	<31	<30	<33	<29	<30
Tetrachloroethane	<35	<32	<31	<30	<33	<29	<30
Toluene	75	36	<31	<30	<33	<29	<30
1,2,3-Trichlorobenzene	<35	<32	<31	<30	<33	<29	<30
1,2,4-Trichlorobenzene	<35	<32	<31	<30	<33	<29	<30
1,1,1-Trichloroethane	<35	<32	<31	<30	<33	<29	<30
1,1,2-Trichloroethane	<35	<32	<31	<30	<33	<29	<30
Trichloroethene	<35	<32	<31	<30	<33	<29	<30
Trichlorofluoromethane	<35	<32	<31	<30	<33	<29	<30
1,2,3-Trichloropropane	<35	<32	<31	<30	<33	<29	<30
1,2,4-Trimethylbenzene	<35	<32	<31	<30	91	<29	<30
1,3,5-Trimethylbenzene	<35	<32	<31	<30	<33	<29	<30
Vinyl Chloride	<35	<32	<31	<30	<33	<29	<30
Xylene, total	<49	<45	<43	<42	71	<41	<42
TOTAL VOCs + Naphthalene	357	178	0	0	2384	0	0

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All units report in µg/kg

**TABLE 4  
TEST AMERICA - SEDIMENT SAMPLE RESULTS**

Parameter (SVOCs-8270)	SD-13	SD-14	SD-14	SD-14	SD-14
Depth	2-4	0-2	2-4	4-6	6-8
Solids (%)	79.8	26.8	76.8	79.0	84.3
Acenaphthene	<0.41	130	39	3.4	<0.39
Acenaphthylene	<0.41	4.1	3.3	<0.42	<0.39
Antracene	<0.41	32	14	1.5	<0.39
Benzo(a)anthracene	<0.41	10	7.7	0.66	<0.39
Benzo(b)fluoranthene	<0.41	3.6	3.0	<0.42	<0.39
Benzo(k)fluoranthene	<0.41	4.9	4.0	<0.42	<0.39
Benzo(g,h,i)perylene	<0.41	<3.3	2.7	<0.42	<0.39
Benzo(a)pyrene	<0.41	7.5	6.1	0.52	<0.39
Chrysene	<0.41	9.3	6.9	0.56	<0.39
Dibenzo(a,h)anthracene	<0.41	<3.3	<0.65	<0.42	<0.39
Fluoranthene	<0.41	28	16	1.5	<0.39
Fluorene	<0.41	52	14	<0.42	<0.39
Indeno (1,2,3-cd)pyrene	<0.41	<3.3	2.6	<0.42	<0.39
2-Methylnaphthalene	<0.41	280	70	5.8	<0.39
Naphthalene	<0.41	410	79	6.6	<0.39
Phenanthrene	<0.41	130	49	4.3	<0.39
Pyrene	<0.41	36	<0.65	1.8	<0.39
TOTAL PAHs	0	936	230.6	20	0

All units reported in mg/kg



**TABLE 4**  
**TEST AMERICA - SEDIMENT SAMPLE RESULTS**  
Parameter (VOCs-8260)      SD-13      SD-14      SD-14      SD-14      SD-14

	Depth	2-4	0-2	2-4	4-6	6-8
Benzene	<31	<18,700	<33	<32	<30	
Bromobenzene	<31	<18,700	<33	<32	<30	
Bromochloromethane	<31	<18,700	<33	<32	<30	
Bromodichloromethane	<31	<18,700	<33	<32	<30	
Bromoform	<31	<18,700	<33	<32	<30	
Bromomethane	<31	<18,700	<130	<127	<119	
n-Butylbenzene	<125	<74,600	<33	<32	<30	
sec-Butylbenzene	<31	<18,700	<33	<32	<30	
tert-Butylbenzene	<31	<18,700	<33	<32	<30	
Carbon Tetrachloride	<31	<18,700	<33	<32	<30	
Chlorobenzene	<31	<18,700	<33	<32	<30	
Chlorodibromomethane	<31	<18,700	<33	<32	<30	
Chloroethane	<44	<26,100	<46	<44	<42	
Chloroform	<31	<18,700	<33	<32	<30	
Chloromethane	<63	<37,300	<65	<63	<59	
2-Chlorotolunene	<31	<18,700	<33	<32	<30	
4-Chlorotolunene	<31	<18,700	<33	<32	<30	
1,2-Dibromo-3-Chloropropane	<63	<37,300	<65	<63	<59	
1,2-Dibromomethane (EDB)	<31	<18,700	<33	<32	<30	
Dibromomethane	<31	<18,700	<33	<32	<30	
1,2-Dichlorobenzene	<31	<18,700	<33	<32	<30	
1,3-Dichlorobenzene	<31	<18,700	<33	<32	<30	
1,4-Dichlorobenzene	<31	<18,700	<33	<32	<30	
Dichlorodifluoromethane	<31	<18,700	<33	<32	<30	
1,1-Dichloroethane	<31	<18,700	<33	<32	<30	
1,2-Dichloroethane	<31	<18,700	<33	<32	<30	
1,1-Dichloroethene	<31	<18,700	<33	<32	<30	
cis-1,2-Dichloroethene	<31	<18,700	<33	<32	<30	
trans-1,2-Dichloroethene	<31	<18,700	<33	<32	<30	
1,2-Dichloropropane	<31	<18,700	<33	<32	<30	
1,3-Dichloropropane	<31	<18,700	<33	<32	<30	
2,2-Dichloropropane	<31	<18,700	<33	<32	<30	
1,1-Dichloropropene	<31	<18,700	<33	<32	<30	
cis-1,3-Dichloropropene	<31	<18,700	<33	<32	<30	
trans-1,3-Dichloropropene	<31	<18,700	<33	<32	<30	
Di-isopropyl ether	<31	<18,700	<33	<32	<30	
Ethylbenzene	<31	<18,700	2,730	354	<30	
Hexachlorobutadiene	<44	<26,100	<46	<44	<42	
Isopropylbenzene	<31	<18,700	469	58	<30	
p-Isopropyltoluene	<31	<18,700	547	72	<30	
Methylene Chloride	<63	<37,300	120 L	<63	<59	
Methyl-t-butyl-ether	<31	<18,700	<33	<32	<30	
Naphthalene	<31	295,000	66,400	7,720	<30	
n-Propylbenzene	<31	<18,700	156	<32	<30	
Styrene	<31	<18,700	<33	<32	<30	
1,1,1,2-Tetrachloroethane	<31	<18,700	<33	<32	<30	
1,1,2,2-Tetrachloroethane	<31	<18,700	<33	<32	<30	
Tetrachloroethane	<31	<18,700	<33	<32	<30	
Toluene	<31	<18,700	<33	<32	<30	
1,2,3-Trichlorobenzene	<31	<18,700	<33	<32	<30	
1,2,4-Trichlorobenzene	<31	<18,700	<33	<32	<30	
1,1,1-Trichloroethane	<31	<18,700	<33	<32	<30	
1,1,2-Trichloroethane	<31	<18,700	<33	<32	<30	
Trichloroethene	<31	<18,700	<33	<32	<30	
Trichlorofluoromethane	<31	<18,700	<33	<32	<30	
1,2,3-Trichloropropane	<31	<18,700	<33	<32	<30	
1,2,4-Trimethylbenzene	<31	<18,700	2,600	342	<30	
1,3,5-Trimethylbenzene	<31	<18,700	820	120	<30	
Vinyl Chloride	<31	<18,700	<33	<32	<30	
Xylene, total	<44	<26,100	3,260	354	<42	
TOTAL VOCs + Naphthalene		0	295000	76982	9020	0

**TABLE 4  
TEST AMERICA - SEDIMENT SAMPLE RESULTS**

Parameter (SVOCs-8270)	SD-15	SD-15	SD-15	SD-16	SD-16	SD-16	SD-16	
	Depth	0-2	2-4	6-8	0-2	2-4	4-6	6-8
Solids (%)		46.5	76.2	88.2	60.1	89.4	85.6	82.6
Acenaphthene		73	45	<0.37	28	<0.37	18	<0.40
Acenaphthylene		<3.4	3.7	<0.37	<2.7	<0.37	1.8	<0.40
Antracene		32	18	<0.37	13	<0.37	7.0	<0.40
Benzo(a)anthracene		11	7.6	<0.37	5.5	<0.37	3.6	<0.40
Benzo(b)fluoranthene		<3.4	2.6	<0.37	<2.7	<0.37	1.3	<0.40
Benzo(k)fluoranthene		4.5	3.8	<0.37	2.7	<0.37	1.8	<0.40
Benzo(g,h,i)perylene		<3.4	2.5	<0.37	<2.7	<0.37	1.2	<0.40
Benzo(a)pyrene		6.9	5.6	<0.37	4.2	<0.37	2.7	<0.40
Chrysene		9.5	6.8	<0.37	5.2	<0.37	3.2	<0.40
Dibenzo(a,h)anthracene		<0.71	<2.1	<0.37	<2.7	<0.37	<0.39	<0.40
Fluoranthene		28	18	<0.37	13	<0.37	7.0	<0.40
Fluorene		34	26	<0.37	17	<0.37	6.9	<0.40
Indeno (1,2,3-cd)pyrene		<3.4	2.4	<0.37	<2.7	<0.37	1.2	<0.40
2-Methylnaphthalene		860	89	<0.37	52	0.41	30	<0.40
Naphthalene		1,180	110	<0.37	55	<0.37	33	<0.40
Phenanthrene		82	51	<0.37	37	<0.37	25	<0.40
Pyrene		37	21	<0.37	16	<0.37	8.2	<0.40
TOTAL PAHs		2221	317.4	0	190	0.41	111.3	0

All units reported in mg/kg

**TABLE 4**  
**TEST AMERICA - SEDIMENT SAMPLE RESULTS**

Parameter (VOCs-8260)	SD-15	SD-15	SD-15	SD-16	SD-16	SD-16	SD-16
	Depth	0-2	2-4	6-8	0-2	2-4	4-6

Benzene	<10,800	<1,570	<32	<42	<28	<14,000	<30
Bromobenzene	<10,800	<1,570	<32	<42	<28	<14,000	<30
Bromochloromethane	<10,800	<1,570	<32	<42	<28	<14,000	<30
Bromodichloromethane	<10,800	<1,570	<32	<42	<28	<14,000	<30
Bromoform	<10,800	<1,570	<32	<42	<28	<14,000	<30
Bromomethane	<43,000	<6,560	<125	<166	<112	<58,400	<121
n-Butylbenzene	<10,800	<1,570	<32	<42	<28	<14,000	<30
sec-Butylbenzene	<10,800	<1,570	<32	<42	<28	<14,000	<30
tert-Butylbenzene	<10,800	<1,570	<32	<42	<28	<14,000	<30
Carbon Tetrachloride	<10,800	<1,570	<32	<42	<28	<14,000	<30
Chlorobenzene	<10,800	<1,570	<32	<42	<28	<14,000	<30
Chlorodibromomethane	<10,800	<1,570	<32	<42	<28	<14,000	<30
Chloroethane	<15,100	<2,360	<43	<58	<39	<21,000	<42
Chloroform	<10,800	<1,570	<32	<42	<28	<14,000	<30
Chloromethane	<21,500	<3,280	<62	<83	<56	<29,200	<61
2-Chlorotolunene	<10,800	<1,570	<32	<42	<28	<14,000	<30
4-Chlorotolunene	<10,800	<1,570	<32	<42	<28	<14,000	<30
1,2-Dibromo-3-Chloropropane	<21,500	<3,280	<62	<83	<56	<29,200	<61
1,2-Dibromomethane (EDB)	<10,800	<1,570	<32	<42	<28	<14,000	<30
Dibromomethane	<10,800	<1,570	<32	<42	<28	<14,000	<30
1,2-Dichlorobenzene	<10,800	<1,570	<32	<42	<28	<14,000	<30
1,3-Dichlorobenzene	<10,800	<1,570	<32	<42	<28	<14,000	<30
1,4-Dichlorobenzene	<10,800	<1,570	<32	<42	<28	<14,000	<30
Dichlorodifluoromethane	<10,800	<1,570	<32	<42	<28	<14,000	<30
1,1-Dichloroethane	<10,800	<1,570	<32	<42	<28	<14,000	<30
1,2-Dichloroethane	<10,800	<1,570	<32	<42	<28	<14,000	<30
1,1-Dichloroethene	<10,800	<1,570	<32	<42	<28	<14,000	<30
cis-1,2-Dichloroethene	<10,800	<1,570	<32	<42	<28	<14,000	<30
trans-1,2-Dichloroethene	<10,800	<1,570	<32	<42	<28	<14,000	<30
1,2-Dichloropropane	<10,800	<1,570	<32	<42	<28	<14,000	<30
1,3-Dichloropropane	<10,800	<1,570	<32	<42	<28	<14,000	<30
2,2-Dichloropropane	<10,800	<1,570	<32	<42	<28	<14,000	<30
1,1-Dichloropropene	<10,800	<1,570	<32	<42	<28	<14,000	<30
cis-1,3-Dichloropropene	<10,800	<1,570	<32	<42	<28	<14,000	<30
trans-1,3-Dichloropropene	<10,800	<1,570	<32	<42	<28	<14,000	<30
Di-isopropyl ether	<10,800	<1,570	<32	<42	<28	<14,000	<30
Ethylbenzene	<10,800	<1,570	<32	2,000	179	30,400	<30
Hexachlorobutadiene	<15,100	<2,360	<43	<58	<39	<21,000	<42
Isopropylbenzene	<10,800	<1,570	<32	383	<28	<14,000	<30
p-Isopropyltoluene	<10,800	<1,570	<32	483	<28	<14,000	<30
Methylene Chloride	23,700 L	<3,280	<62	200 L	<56	<29,200	<61
Methyl-t-butyl-ether	<10,800	<1,570	<32	<42	<28	<14,000	<30
Naphthalene	301,000	52,500	204	91,500	872	1,060,000	169
n-Propylbenzene	<10,800	<1,570	<32	100	<28	<14,000	<30
Styrene	<10,800	<1,570	<32	<42	<28	<14,000	<30
1,1,1,2-Tetrachloroethane	<10,800	<1,570	<32	<42	<28	<14,000	<30
1,1,2,2-Tetrachloroethane	<10,800	<1,570	<32	<42	<28	<14,000	<30
Tetrachloroethane	<10,800	<1,570	<32	<42	<28	<14,000	<30
Toluene	<10,800	<1,570	<32	<42	<28	<14,000	<30
1,2,3-Trichlorobenzene	<10,800	<1,570	<32	<42	<28	<14,000	<30
1,2,4-Trichlorobenzene	<10,800	<1,570	<32	<42	<28	<14,000	<30
1,1,1-Trichloroethane	<10,800	<1,570	<32	<42	<28	<14,000	<30
1,1,2-Trichloroethane	<10,800	<1,570	<32	<42	<28	<14,000	<30
Trichloroethene	<10,800	<1,570	<32	<42	<28	<14,000	<30
Trichlorofluoromethane	<10,800	<1,570	<32	<42	<28	<14,000	<30
1,2,3-Trichloropropane	<10,800	<1,570	<32	<42	<28	<14,000	<30
1,2,4-Trimethylbenzene	<10,800	2,100	<32	2,160	49	37,400	<30
1,3,5-Trimethylbenzene	<10,800	<1,570	<32	666	<28	<14,000	<30
Vinyl Chloride	<10,800	<1,570	<32	<42	<28	<14,000	<30
Xylene, total	<15,100	<2,360	<43	2,330	179	<21,000	<42
<b>TOTAL VOCs + Naphthalene</b>	<b>301000</b>	<b>54600</b>	<b>204</b>	<b>99622</b>	<b>1279</b>	<b>1127800</b>	<b>169</b>

**TABLE 4  
TEST AMERICA - SEDIMENT SAMPLE RESULTS**

Parameter (SVOCs-8270)	SD-17	SD-17	SD-17	SD-18	SD-18
Depth	2-4	4-6	6-8	4-6	6-8
Solids (%)	81.8	84.8	83.6	79.6	81.3
Acenaphthene	<0.40	<0.39	<0.39	<0.41	<0.41
Acenaphthylene	<0.40	<0.39	<0.39	<0.41	<0.41
Antracene	<0.40	<0.39	<0.39	<0.41	<0.41
Benzo(a)anthracene	<0.40	<0.39	<0.39	<0.41	<0.41
Benzo(b)fluoranthene	<0.40	<0.39	<0.39	<0.41	<0.41
Benzo(k)fluoranthene	<0.40	<0.39	<0.39	<0.41	<0.41
Benzo(g,h,i)perylene	<0.40	<0.39	<0.39	<0.41	<0.41
Benzo(a)pyrene	<0.40	<0.39	<0.39	<0.41	<0.41
Chrysene	<0.40	<0.39	<0.39	<0.41	<0.41
Dibenzo(a,h)anthracene	<0.40	<0.39	<0.39	<0.41	<0.41
Fluoranthene	<0.40	<0.39	<0.39	<0.41	<0.41
Fluorene	<0.40	<0.39	<0.39	<0.41	<0.41
Indeno (1,2,3-cd)pyrene	<0.40	<0.39	<0.39	<0.41	<0.41
2-Methylnaphthalene	<0.40	<0.39	<0.39	<0.41	<0.41
Naphthalene	<0.40	<0.39	<0.39	1.6	<0.41
Phenanthrene	<0.40	<0.39	<0.39	<0.41	<0.41
Pyrene	<0.40	<0.39	<0.39	<0.41	<0.41
TOTAL PAHs	0	0	0	1.6	0

All units reported in mg/kg

**TABLE 4**  
**TEST AMERICA - SEDIMENT SAMPLE RESULTS**  
Parameter (VOCs-8260)      SD-17      SD-17      SD-17      SD-18      SD-18  
   Depth      2-4      4-6      6-8      4-6      6-8

Benzene	<34	<33	<33	<35	<31
Bromobenzene	<34	<33	<33	<35	<31
Bromochloromethane	<34	<33	<33	<35	<31
Bromodichloromethane	<34	<33	<33	<35	<31
Bromoform	<34	<33	<33	<35	<31
Bromomethane	<134	<130	<132	<138	<31
n-Butylbenzene	<34	<33	<33	<35	<123
sec-Butylbenzene	<34	<33	<33	<35	<31
tert-Butylbenzene	<34	<33	<33	<35	<31
Carbon Tetrachloride	<34	<33	<33	<35	<31
Chlorobenzene	<34	<33	<33	<35	<31
Chlorodibromomethane	<34	<33	<33	<35	<31
Chloroethane	<46	<45	<45	<48	<43
Chloroform	<34	<33	<33	<35	<31
Chloromethane	<67	<65	<66	<69	<62
2-Chlorotoluene	<34	<33	<33	<35	<31
4-Chlorotoluene	<34	<33	<33	<35	<31
1,2-Dibromo-3-Chloropropane	<67	<65	<66	<69	<62
1,2-Dibromomethane (EDB)	<34	<33	<33	<35	<31
Dibromomethane	<34	<33	<33	<35	<31
1,2-Dichlorobenzene	<34	<33	<33	<35	<31
1,3-Dichlorobenzene	<34	<33	<33	<35	<31
1,4-Dichlorobenzene	<34	<33	<33	<35	<31
Dichlorodifluoromethane	<34	<33	<33	<35	<31
1,1-Dichloroethane	<34	<33	<33	<35	<31
1,2-Dichloroethane	<34	<33	<33	<35	<31
1,1-Dichloroethene	<34	<33	<33	<35	<31
cis-1,2-Dichloroethene	<34	<33	<33	<35	<31
trans-1,2-Dichloroethene	<34	<33	<33	<35	<31
1,2-Dichloropropane	<34	<33	<33	<35	<31
1,3-Dichloropropane	<34	<33	<33	<35	<31
2,2-Dichloropropane	<34	<33	<33	<35	<31
1,1-Dichloropropene	<34	<33	<33	<35	<31
cis-1,3-Dichloropropene	<34	<33	<33	<35	<31
trans-1,3-Dichloropropene	<34	<33	<33	<35	<31
Di-isopropyl ether	<34	<33	<33	<35	<31
Ethylbenzene	<34	<33	<33	239	<31
Hexachlorobutadiene	<46	<45	<45	<48	<43
Isopropylbenzene	<34	<33	<33	<35	<31
p-Isopropyltoluene	<34	<33	<33	<35	<31
Methylene Chloride	77 L	86 L	81 L	<69	<62
Methyl-t-butyl-ether	<34	<33	<33	<35	<31
Naphthalene	95	38	<33	2,010	74
n-Propylbenzene	<34	<33	<33	<35	<31
Styrene	<34	<33	<33	<35	<31
1,1,1,2-Tetrachloroethane	<34	<33	<33	<35	<31
1,1,2,2-Tetrachloroethane	<34	<33	<33	<35	<31
Tetrachloroethane	<34	<33	<33	<35	<31
Toluene	<34	<33	<33	<35	<31
1,2,3-Trichlorobenzene	<34	<33	<33	<35	<31
1,2,4-Trichlorobenzene	<34	<33	<33	<35	<31
1,1,1-Trichloroethane	<34	<33	<33	<35	<31
1,1,2-Trichloroethane	<34	<33	<33	<35	<31
Trichloroethene	<34	<33	<33	<35	<31
Trichlorofluoromethane	<34	<33	<33	<35	<31
1,2,3-Trichloropropane	<34	<33	<33	<35	<31
1,2,4-Trimethylbenzene	<34	<33	<33	120	<31
1,3,5-Trimethylbenzene	<34	<33	<33	40	<31
Vinyl Chloride	<34	<33	<33	<35	<31
Xylene, total	<46	<45	<45	276	<43
TOTAL VOCs + Naphthalene	95	38	0	2685	74

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All units report in µg/kg

**TABLE 4  
TEST AMERICA - SEDIMENT SAMPLE RESULTS**

Parameter (SVOCs-8270)	SD-19	SD-19	SD-19	SD-19	SD-20	SD-20	SD-20	SD-20	
	Depth	0-2	2-4	4-6	6-8	0-2	2-4	4-6	6-8
Solids (%)		66.8	79.0	83.5	84.4	60.7	77.1	79.9	79.0
Acenaphthene	<2.4	<0.42	<0.40	<0.39	<10	<0.43	<0.41	<0.42	
Acenaphthylene	<2.4	<0.42	<0.40	<0.39	<10	<0.43	<0.41	<0.42	
Antracene	<2.4	<0.42	<0.40	<0.39	<10	<0.43	<0.41	<0.42	
Benzo(a)anthracene	<2.4	<0.42	<0.40	<0.39	<10	<0.43	<0.41	<0.42	
Benzo(b)fluoranthene	<2.4	<0.42	<0.40	<0.39	<10	<0.43	<0.41	<0.42	
Benzo(k)fluoranthene	<2.4	<0.42	<0.40	<0.39	<10	<0.43	<0.41	<0.42	
Benzo(g,h,i)perylene	<2.4	<0.42	<0.40	<0.39	<10	<0.43	<0.41	<0.42	
Benzo(a)pyrene	<2.4	<0.42	<0.40	<0.39	<10	<0.43	<0.41	<0.42	
Chrysene	<2.4	<0.42	<0.40	<0.39	<10	<0.43	<0.41	<0.42	
Dibenzo(a,h)anthracene	<2.4	<0.42	<0.40	<0.39	<10	<0.43	<0.41	<0.42	
Fluoranthene	<2.4	<0.42	<0.40	<0.39	<b>12</b>	<0.43	<0.41	<0.42	
Fluorene	<2.4	<0.42	<0.40	<0.39	<10	<0.43	<0.41	<0.42	
Indeno (1,2,3-cd)pyrene	<2.4	<0.42	<0.40	<0.39	<10	<0.43	<0.41	<0.42	
2-Methylnaphthalene	<2.4	<0.42	<0.40	<0.39	<10	<0.43	<0.41	<0.42	
Naphthalene	<2.4	<0.42	<0.40	<0.39	<10	<0.43	<0.41	<0.42	
Phenanthrene	<2.4	<0.42	<0.40	<0.39	<b>13</b>	<0.43	<0.41	<0.42	
Pyrene	<2.4	<0.42	<0.40	<0.39	<b>16</b>	<0.43	<0.41	<0.42	
TOTAL PAHs		0	0	0	0	41	0	0	0

All units reported in mg/kg

TABLE 4

## TEST AMERICA - SEDIMENT SAMPLE RESULTS

Parameter (VOCs-8260)	TEST AMERICA - SEDIMENT SAMPLE RESULTS							
	SD-19	SD-19	SD-19	SD-19	SD-20	SD-20	SD-20	SD-20
Depth	0-2	2-4	4-6	6-8	0-2	2-4	4-6	6-8
Benzene	<37	<35	<30	<30	<41	<32	<31	<32
Bromobenzene	<37	<35	<30	<30	<41	<32	<31	<32
Bromochloromethane	<37	<35	<30	<30	<41	<32	<31	<32
Bromodichloromethane	<37	<35	<30	<30	<41	<32	<31	<32
Bromoform	<37	<35	<30	<30	<41	<32	<31	<32
Bromomethane	<150	<139	<120	<118	<165	<130	<125	<127
n-Butylbenzene	<37	<35	<30	<30	<41	<32	<31	<32
sec-Butylbenzene	<37	<35	<30	<30	<41	<32	<31	<32
tert-Butylbenzene	<37	<35	<30	<30	<41	<32	<31	<32
Carbon Tetrachloride	<37	<35	<30	<30	<41	<32	<31	<32
Chlorobenzene	<37	<35	<30	<30	<41	<32	<31	<32
Chlorodibromomethane	<37	<35	<30	<30	<41	<32	<31	<32
Chloroethane	<52	<48	<42	<41	<58	<45	<44	<44
Chloroform	<37	<35	<30	<30	<41	<32	<31	<32
Chloromethane	<75	<70	<60	<58	<82	<65	<63	<63
2-Chlorotoluene	<37	<35	<30	<30	<41	<32	<31	<32
4-Chlorotoluene	<37	<35	<30	<30	<41	<32	<31	<32
1,2-Dibromo-3-Chloropropane	<75	<70	<60	<58	<82	<65	<63	<63
1,2-Dibromomethane (EDB)	<37	<35	<30	<30	<41	<32	<31	<32
Dibromomethane	<37	<35	<30	<30	<41	<32	<31	<32
1,2-Dichlorobenzene	<37	<35	<30	<30	<41	<32	<31	<32
1,3-Dichlorobenzene	<37	<35	<30	<30	<41	<32	<31	<32
1,4-Dichlorobenzene	<37	<35	<30	<30	<41	<32	<31	<32
Dichlorodifluoromethane	<37	<35	<30	<30	<41	<32	<31	<32
1,1-Dichloroethane	<37	<35	<30	<30	<41	<32	<31	<32
1,2-Dichloroethane	<37	<35	<30	<30	<41	<32	<31	<32
1,1-Dichloroethene	<37	<35	<30	<30	<41	<32	<31	<32
cis-1,2-Dichloroethene	<37	<35	<30	<30	<41	<32	<31	<32
trans-1,2-Dichloroethene	<37	<35	<30	<30	<41	<32	<31	<32
1,2-Dichloropropane	<37	<35	<30	<30	<41	<32	<31	<32
1,3-Dichloropropane	<37	<35	<30	<30	<41	<32	<31	<32
2,2-Dichloropropane	<37	<35	<30	<30	<41	<32	<31	<32
1,1-Dichloropropene	<37	<35	<30	<30	<41	<32	<31	<32
cis-1,3-Dichloropropene	<37	<35	<30	<30	<41	<32	<31	<32
trans-1,3-Dichloropropene	<37	<35	<30	<30	<41	<32	<31	<32
Di-isopropyl ether	<37	<35	<30	<30	<41	<32	<31	<32
Ethylbenzene	<37	<35	<30	<30	<41	<32	<31	<32
Hexachlorobutadiene	<52	<48	<42	<41	<58	<45	<44	<44
Isopropylbenzene	<37	<35	<30	<30	<41	<32	<31	<32
p-Isopropyltoluene	55	<35	<30	<30	264	<32	<31	<32
Methylene Chloride	120 L	99 L	100 L	118 L	<82	220 L	138 L	152 L
Methyl-t-butyl-ether	<37	<35	<30	<30	<41	<32	<31	<32
Naphthalene	<37	<35	<30	<30	82	<32	<31	<32
n-Propylbenzene	<37	<35	<30	<30	<41	<32	<31	<32
Styrene	<37	<35	<30	<30	<41	<32	<31	<32
1,1,1,2-Tetrachloroethane	<37	<35	<30	<30	<41	<32	<31	<32
1,1,2,2-Tetrachloroethane	<37	<35	<30	<30	<41	<32	<31	<32
Tetrachloroethane	<37	<35	<30	<30	<41	<32	<31	<32
Toluene	67	<35	<30	<30	160	<32	<31	<32
1,2,3-Trichlorobenzene	<37	<35	<30	<30	<41	<32	<31	<32
1,2,4-Trichlorobenzene	<37	<35	<30	<30	<41	<32	<31	<32
1,1,1-Trichloroethane	<37	<35	<30	<30	<41	<32	<31	<32
1,1,2-Trichloroethane	<37	<35	<30	<30	<41	<32	<31	<32
Trichloroethene	<37	<35	<30	<30	<41	<32	<31	<32
Trichlorofluoromethane	<37	<35	<30	<30	<41	<32	<31	<32
1,2,3-Trichloropropane	<37	<35	<30	<30	<41	<32	<31	<32
1,2,4-Trimethylbenzene	<37	<35	<30	<30	<41	<32	<31	<32
1,3,5-Trimethylbenzene	<37	<35	<30	<30	<41	<32	<31	<32
Vinyl Chloride	<37	<35	<30	<30	<41	<32	<31	<32
Xylene, total	<52	<48	<42	<41	<58	<45	<44	<44
TOTAL VOCs + Naphthalene	122	0	0	0	506	0	0	0

20 of 60

All units report in µg/kg

**TABLE 4  
TEST AMERICA - SEDIMENT SAMPLE RESULTS**

Parameter (SVOCs-8270)	SD-21	SD-21	SD-21	SD-21	SD-21	SD-22	SD-22	SD-22
Depth	0-2	2-4	4-5	7-8	9-10	0-2	2-4	4-6
Solids (%)	46.4	83.0	85.0	82.3	79.6	51.0	74.9	83.5
Acenaphthene	120	40	247	<0.40	<0.41	190	10	<0.40
Acenaphthylene	<11	3.5	14	<0.40	<0.41	<8.7	0.47	<0.40
Anthracene	43	14	81	<0.40	<0.41	57	3.2	<0.40
Benzo(a)anthracene	28	10	41	<0.40	<0.41	33	1.9	<0.40
Benzo(b)fluoranthene	11	4.2	15	<0.40	<0.41	15	0.81	<0.40
Benzo(k)fluoranthene	15	5.4	21	<0.40	<0.41	18	1.0	<0.40
Benzo(g,h,i)perylene	13	4.9	19	<0.40	<0.41	15	0.71	<0.40
Benzo(a)pyrene	30	11	38.8	<0.40	<0.41	31	1.9	<0.40
Chrysene	28	9.5	39	<0.40	<0.41	33	1.7	<0.40
Dibenzo(a,h)anthracene	<11	<1.9	3.6	<0.40	<0.41	<8.7	<0.44	<0.40
Fluoranthene	67	22	110	<0.40	<0.41	82	4.5	<0.40
Fluorene	52	19	110	<0.40	<0.41	92	5.2	<0.40
Indeno (1,2,3-cd)pyrene	13	4.3	18	<0.40	<0.41	12	0.60	<0.40
2-Methylnaphthalene	180	58	400	0.49	0.44	130	17	<0.40
Naphthalene	220	61	600	0.95	0.68	190	25	<0.40
Phenanthrene	150	58	294	<0.40	0.46	100	16	<0.40
Pyrene	99	33	153	<0.40	<0.41	140	6.9	<0.40
TOTAL PAHs	781	255.3	1685	1.44	1.58	746	75.2	0

All units report in mg/kg



TABLE 4

## TEST AMERICA - SEDIMENT SAMPLE RESULTS

Parameter (VOCs-8260)	SD-21			SD-22				
	Depth	0-2	2-4	4-5	7-8	9-10	0-2	2-4
Benzene	<54	<30	<1,410	<30	<31	<4,900	<3,340	<30
Bromobenzene	<54	<30	<1,410	<30	<31	<4,900	<3,340	<30
Bromochloromethane	<54	<30	<1,410	<30	<31	<4,900	<3,340	<30
Bromodichloromethane	<54	<30	<1,410	<30	<31	<4,900	<3,340	<30
Bromoform	<54	<30	<1,410	<30	<31	<4,900	<3,340	<30
Bromomethane	<216	<120	<5,880	<122	<126	<19,600	<13,400	<120
n-Butylbenzene	<54	<30	<1,410	<30	<31	<4,900	<3,340	<30
sec-Butylbenzene	<54	36	<1,410	<30	<31	<4,900	<3,340	<30
tert-Butylbenzene	<54	<30	<1,410	<30	<31	<4,900	<3,340	<30
Carbon Tetrachloride	<54	<30	<1,410	<30	<31	<4,900	<3,340	<30
Chlorobenzene	<54	<30	<1,410	<30	<31	<4,900	<3,340	<30
Chlorodibromomethane	<54	<30	<1,410	<30	<31	<4,900	<3,340	<30
Chloroethane	<75	<42	<1,410	<43	<44	<6,860	<4,670	<42
Chloroform	<54	<30	<1,410	<30	<31	<4,900	<3,340	<30
Chloromethane	<110	<60	<2,940	<61	<63	<9,800	<6,680	<60
2-Chlorotolunene	<54	<30	<1,410	<30	<31	<4,900	<3,340	<30
4-Chlorotolunene	<54	<30	<1,410	<30	<31	<4,900	<3,340	<30
1,2-Dibromo-3-Chloropropane	<110	<60	<2,940	<61	<63	<9,800	<6,680	<60
1,2-Dibromomethane (EDB)	<54	<30	<1,410	<30	<31	<4,900	<3,340	<30
Dibromomethane	<54	<30	<1,410	<30	<31	<4,900	<3,340	<30
1,2-Dichlorobenzene	<54	<30	<1,410	<30	<31	<4,900	<3,340	<30
1,3-Dichlorobenzene	<54	<30	<1,410	<30	<31	<4,900	<3,340	<30
1,4-Dichlorobenzene	<54	<30	<1,410	<30	<31	<4,900	<3,340	<30
Dichlorodifluoromethane	<54	<30	<1,410	<30	<31	<4,900	<3,340	<30
1,1-Dichloroethane	<54	<30	<1,410	<30	<31	<4,900	<3,340	<30
1,2-Dichloroethane	<54	<30	<1,410	<30	<31	<4,900	<3,340	<30
1,1-Dichloroethene	<54	<30	<1,410	<30	<31	<4,900	<3,340	<30
cis-1,2-Dichloroethene	<54	<30	<1,410	<30	<31	<4,900	<3,340	<30
trans-1,2-Dichloroethene	<54	<30	<1,410	<30	<31	<4,900	<3,340	<30
1,2-Dichloropropane	<54	<30	<1,410	<30	<31	<4,900	<3,340	<30
1,3-Dichloropropane	<54	<30	<1,410	<30	<31	<4,900	<3,340	<30
2,2-Dichloropropane	<54	<30	<1,410	<30	<31	<4,900	<3,340	<30
1,1-Dichloropropene	<54	<30	<1,410	<30	<31	<4,900	<3,340	<30
cis-1,3-Dichloropropene	<54	<30	<1,410	<30	<31	<4,900	<3,340	<30
trans-1,3-Dichloropropene	<54	<30	<1,410	<30	<31	<4,900	<3,340	<30
Di-isopropyl ether	<54	<30	<1,410	<30	<31	<4,900	<3,340	<30
Ethylbenzene	2,070	2,290	43,500	255	88	19,200	<3,340	<30
Hexachlorobutadiene	<75	<42	<2,120	<43	<31	<6,860	<4,670	<42
Isopropylbenzene	668	554	6,350	44	<31	<4,900	<3,340	<30
p-Isopropyltoluene	1,440	1,570	8,000	60	<31	<4,900	<3,340	<30
Methylene Chloride	<110	<60	<2,940	<61	100 L	25,500 L	8,410 L	81 L
Methyl-t-butyl-ether	<54	<30	<1,410	<30	<31	<4,900	<3,340	<30
Naphthalene	92,700	104,000	1,650,000	7,050	3,020	784,000	187,000	695
n-Propylbenzene	190	193	2,350	<30	<31	<4,900	<3,340	<30
Styrene	<54	<30	<1,410	<30	<31	<4,900	<3,340	<30
1,1,1,2-Tetrachloroethane	<54	<30	<1,410	<30	<31	<4,900	<3,340	<30
1,1,2,2-Tetrachloroethane	<54	<30	<1,410	<30	<31	<4,900	<3,340	<30
Tetrachloroethane	<54	<30	<1,410	<30	<31	<4,900	<3,340	<30
Toluene	80	40	3,060	<30	<31	<4,900	<3,340	<30
1,2,3-Trichlorobenzene	<54	<30	<1,410	<30	<31	<4,900	<3,340	<30
1,2,4-Trichlorobenzene	<54	<30	<1,410	<30	<31	<4,900	<3,340	<30
1,1,1-Trichloroethane	<54	<30	<1,410	<30	<31	<4,900	<3,340	<30
1,1,2-Trichloroethane	<54	<30	<1,410	<30	<31	<4,900	<3,340	<30
Trichloroethene	<54	<30	<1,410	<30	<31	<4,900	<3,340	<30
Trichlorofluoromethane	<54	<30	<1,410	<30	<31	<4,900	<3,340	<30
1,2,3-Trichloropropane	<54	<30	<1,410	<30	<31	<4,900	<3,340	<30
1,2,4-Trimethylbenzene	3,660	3,370	37,600	267	98	16,500	5,210	<30
1,3,5-Trimethylbenzene	884	988	6,940	56	<31	6,860	<3,340	<30
Vinyl Chloride	<54	<30	<1,410	<30	<31	<4,900	<3,340	<30
Xylene, total	2,590	2,770	43,500	255	90	11,200	<4,670	<42
TOTAL VOCs + Naphthalene	104,282	115,811	1,801,300	7,987	3,296	837,760	192,210	695

All units report in µg/kg

**TABLE 4  
TEST AMERICA - SEDIMENT SAMPLE RESULTS**

Parameter (SVOCs-8270) Depth	SD-22	SD-22	SD-23	SD-23	SD-23	SD-24	SD-24	SD-24
	6-8	8-10	0-2	2-4	6-8	2-4	4-6	6-8
Solids (%)	82.0	84.6	69.1	80.0	85.3	79.0	84.0	88.3
Acenaphthene	<0.40	<0.39	<0.48	<0.41	<0.39	<1.2	<0.39	<0.37
Acenaphthylene	<0.40	<0.39	<0.48	<0.41	<0.39	<1.2	<0.39	<0.37
Anthracene	<0.40	<0.39	<0.48	<0.41	<0.39	<1.2	<0.39	<0.37
Benzo(a)anthracene	<0.40	<0.39	<0.48	<0.41	<0.39	<1.2	<0.39	<0.37
Benzo(b)fluoranthene	<0.40	<0.39	<0.48	<0.41	<0.39	<1.2	<0.39	<0.37
Benzo(k)fluoranthene	<0.40	<0.39	<0.48	<0.41	<0.39	<1.2	<0.39	<0.37
Benzo(g,h,i)perylene	<0.40	<0.39	<0.48	<0.41	<0.39	<1.2	<0.39	<0.37
Benzo(a)pyrene	<0.40	<0.39	<0.48	<0.41	<0.39	<1.2	<0.39	<0.37
Chrysene	<0.40	<0.39	<0.48	<0.41	<0.39	<1.2	<0.39	<0.37
Dibenzo(a,h)anthracene	<0.40	<0.39	<0.48	<0.41	<0.39	<1.2	<0.39	<0.37
Fluoranthene	<0.40	<0.39	<0.48	<0.41	<0.39	<1.2	<0.39	<0.37
Fluorene	<0.40	<0.39	<0.48	<0.41	<0.39	<1.2	<0.39	<0.37
Indeno (1,2,3-cd)pyrene	<0.40	<0.39	<0.48	<0.41	<0.39	<1.2	<0.39	<0.37
2-Methylnaphthalene	<0.40	0.43	<0.48	<0.41	<0.39	<1.2	<0.39	<0.37
Naphthalene	<0.40	0.53	<0.48	<0.41	<0.39	<1.2	<0.39	<0.37
Phenanthrene	<0.40	0.56	<0.48	<0.41	<0.39	<1.2	<0.39	<0.37
Pyrene	<0.40	<0.39	<0.48	<0.41	<0.39	<1.2	<0.39	<0.37
TOTAL PAHs	0	1.52	0	0	0	0	0	0

All units report in mg/kg

TABLE 4

## TEST AMERICA - SEDIMENT SAMPLE RESULTS

Parameter (VOCs-8260)	SD-22		SD-23		SD-23		SD-24		SD-24	
	Depth	6-8	8-10	0-2	2-4	6-8	2-4	4-6	6-8	6-8
Benzene	<30	<30	<36	<31	<29	<32	<30	<32		
Bromobenzene	<30	<30	<36	<31	<29	<32	<30	<32		
Bromochloromethane	<30	<30	<36	<31	<29	<32	<30	<32		
Bromodichloromethane	<30	<30	<36	<31	<29	<32	<30	<32		
Bromoform	<30	<30	<36	<31	<29	<32	<30	<32		
Bromomethane	<122	<118	<145	<125	<117	<127	<119	<125		
n-Butylbenzene	<30	<30	<36	<31	<29	<32	<30	<32		
sec-Butylbenzene	<30	<30	<36	<31	<29	<32	<30	<32		
tert-Butylbenzene	<30	<30	<36	<31	<29	<32	<30	<32		
Carbon Tetrachloride	<30	<30	<36	<31	<29	<32	<30	<32		
Chlorobenzene	<30	<30	<36	<31	<29	<32	<30	<32		
Chlorodibromomethane	<30	<30	<36	<31	<29	<32	<30	<32		
Chloroethane	<43	<41	<51	<44	<41	<44	<42	<43		
Chloroform	<30	<30	<36	<31	<29	<32	<30	<32		
Chloromethane	<61	<59	<72	<62	<59	<63	<60	<62		
2-Chlorotolunene	<30	<30	<36	<31	<29	<32	<30	<32		
4-Chlorotolunene	<30	<30	<36	<31	<29	<32	<30	<32		
1,2-Dibromo-3-Chloropropane	<61	<59	<72	<62	<59	<63	<60	<62		
1,2-Dibromomethane (EDB)	<30	<30	<36	<31	<29	<32	<30	<32		
Dibromomethane	<30	<30	<36	<31	<29	<32	<30	<32		
1,2-Dichlorobenzene	<30	<30	<36	<31	<29	<32	<30	<32		
1,3-Dichlorobenzene	<30	<30	<36	<31	<29	<32	<30	<32		
1,4-Dichlorobenzene	<30	<30	<36	<31	<29	<32	<30	<32		
Dichlorodifluoromethane	<30	<30	<36	<31	<29	<32	<30	<32		
1,1-Dichloroethane	<30	<30	<36	<31	<29	<32	<30	<32		
1,2-Dichloroethane	<30	<30	<36	<31	<29	<32	<30	<32		
1,1-Dichloroethene	<30	<30	<36	<31	<29	<32	<30	<32		
cis-1,2-Dichloroethene	<30	<30	<36	<31	<29	<32	<30	<32		
trans-1,2-Dichloroethene	<30	<30	<36	<31	<29	<32	<30	<32		
1,2-Dichloropropane	<30	<30	<36	<31	<29	<32	<30	<32		
1,3-Dichloropropane	<30	<30	<36	<31	<29	<32	<30	<32		
2,2-Dichloropropane	<30	<30	<36	<31	<29	<32	<30	<32		
1,1-Dichloropropene	<30	<30	<36	<31	<29	<32	<30	<32		
cis-1,3-Dichloropropene	<30	<30	<36	<31	<29	<32	<30	<32		
trans-1,3-Dichloropropene	<30	<30	<36	<31	<29	<32	<30	<32		
Di-isopropyl ether	<30	<30	<36	<31	<29	<32	<30	<32		
Ethylbenzene	<30	<30	<36	<31	<29	<32	<30	<32		
Hexachlorobutadiene	<43	<41	<51	<44	<41	<44	<42	<43		
Isopropylbenzene	<30	<30	<36	<31	<29	<32	<30	<32		
p-Isopropyltoluene	<30	<30	120	<31	<29	<32	<30	<32		
Methylene Chloride	402	100 L	<72	<62	74 L	120 L	110 L	113 L		
Methyl-t-butyl-ether	<30	<30	<36	<31	<29	<32	<30	<32		
Naphthalene	683	284	62	78	<29	<32	<30	97		
n-Propylbenzene	<30	<30	<36	<31	<29	<32	<30	<32		
Styrene	<30	<30	<36	<31	<29	<32	<30	<32		
1,1,1,2-Tetrachloroethane	<30	<30	<36	<31	<29	<32	<30	<32		
1,1,2,2-Tetrachloroethane	<30	<30	<36	<31	<29	<32	<30	<32		
Tetrachloroethane	<30	<30	<36	<31	<29	<32	<30	<32		
Toluene	<30	<30	362	<31	<29	<32	<30	<32		
1,2,3-Trichlorobenzene	<30	<30	<36	<31	<29	<32	<30	<32		
1,2,4-Trichlorobenzene	<30	<30	<36	<31	<29	<32	<30	<32		
1,1,1-Trichloroethane	<30	<30	<36	<31	<29	<32	<30	<32		
1,1,2-Trichloroethane	<30	<30	<36	<31	<29	<32	<30	<32		
Trichloroethene	<30	<30	<36	<31	<29	<32	<30	<32		
Trichlorofluoromethane	<30	<30	<36	<31	<29	<32	<30	<32		
1,2,3-Trichloropropane	<30	<30	<36	<31	<29	<32	<30	<32		
1,2,4-Trimethylbenzene	<30	<30	<36	<31	<29	<32	<30	<32		
1,3,5-Trimethylbenzene	<30	<30	<36	<31	<29	<32	<30	<32		
Vinyl Chloride	<30	<30	<36	<31	<29	<32	<30	<32		
Xylene, total	<43	<41	<51	<44	<41	<44	<42	<43		
TOTAL VOCs + Naphthalene	1,085	284	544	78	0	0	0	97		

All units report in µg/kg

**TABLE 4  
TEST AMERICA - SEDIMENT SAMPLE RESULTS**

Parameter (SVOCs-8270) Depth	SD-25	SD-25	SD-25	SD-25	SD-25	SD-26	SD-26	SD-26	SD-26
	0-2	2-4	4-5	5-6	6-8	0-2	2-4	4-6	6-8
Solids (%)	73.0	79.8	80.1	84.4	77.4	51.4	77.8	84.7	82.6
Acenaphthene	32	226	824	1.2	0.47	160	110	401	<0.40
Acenaphthylene	<2.2	14	60	<0.39	<0.43	<15	6.7	28	<0.40
Antracene	13	83	250	0.51	<0.43	53	31	165	<0.40
Benzo(a)anthracene	6.4	35	125	<0.39	<0.43	<15	17	60	<0.40
Benzo(b)fluoranthene	2.6	15	51	<0.39	<0.43	<15	6.4	25	<0.40
Benzo(k)fluoranthene	3.4	18	64	<0.39	<0.43	<15	8.0	27	<0.40
Benzo(g,h,l)perylene	2.3	13	46	<0.39	<0.43	<15	5.4	20	<0.40
Benzo(a)pyrene	5.5	29	110	<0.39	<0.43	<15	13	45	<0.40
Chrysene	5.9	31	120	<0.39	<0.43	<15	14	53	<0.40
Dibenzo(a,h)anthracene	<2.2	3.5	<20	<0.39	<0.43	<15	<2.1	6.1	<0.40
Fluoranthene	13	85	262	0.58	<0.43	43	33	142	<0.40
Fluorene	16	125	400	0.73	<0.43	78	60	236	<0.40
Indeno (1,2,3-cd)pyrene	<2.2	11	39	<0.39	<0.43	<15	4.6	18	<0.40
2-Methylnaphthalene	49	338	1,370	1.2	<0.43	292	193	720	<0.40
Naphthalene	74	439	1,870	0.90	<0.43	525	257	850	<0.40
Phenanthrene	34	263	999	1.8	0.98	160	120	449	<0.40
Pyrene	19	6.4	362	0.86	0.50	56	42	12	<0.40
TOTAL PAHs	205	1267.4	5302	6.07	1.48	1154	709.6	2427	0

All units report in mg/kg

TABLE 4

## TEST AMERICA - SEDIMENT SAMPLE RESULTS

Parameter (VOCs-8260)	SD-25	SD-25	SD-25	SD-25	SD-25	SD-26	SD-26	SD-26	SD-26
	Depth 0-2	2-4	4-5	5-6	6-8	0-2	2-4	4-6	6-8
Benzene	<3,420	<3,130	<6,240	100	50	<4,860	<32,100	<29,500	36
Bromobenzene	<3,420	<3,130	<6,240	<30	<36	<4,860	<32,100	<29,500	<30
Bromochloromethane	<3,420	<3,130	<6,240	<30	<36	<4,860	<32,100	<29,500	<30
Bromodichloromethane	<3,420	<3,130	<6,240	<30	<36	<4,860	<32,100	<29,500	<30
Bromofom	<3,420	<3,130	<6,240	<30	<36	<4,860	<32,100	<29,500	<30
Bromomethane	<13,700	<12,500	<25,000	<118	<142	<19,500	<129,000	<118,000	<121
n-Butylbenzene	<3,420	<3,130	<6,240	<30	<36	<4,860	<32,100	<29,500	<30
sec-Butylbenzene	<3,420	<3,130	<6,240	<30	<36	<4,860	<32,100	<29,500	<30
tert-Butylbenzene	<3,420	<3,130	<6,240	<30	<36	<4,860	<32,100	<29,500	<30
Carbon Tetrachloride	<3,420	<3,130	<6,240	<30	<36	<4,860	<32,100	<29,500	<30
Chlorobenzene	<3,420	<3,130	<6,240	<30	<36	<4,860	<32,100	<29,500	<30
Chlorodibromomethane	<3,420	<3,130	<6,240	<30	<36	<4,860	<32,100	<29,500	<30
Chloroethane	<4,790	<4,390	<8,740	<41	<49	<6,810	<45,000	<41,300	<42
Chloroform	<3,420	<3,130	<6,240	<30	<36	<4,860	<32,100	<29,500	<30
Chloromethane	<6,850	<6,270	<12,500	<59	<71	<9,730	<64,300	<59,000	<61
2-Chlorotolunene	<3,420	<3,130	<6,240	<30	<36	<4,860	<32,100	<29,500	<30
4-Chlorotolunene	<3,420	<3,130	<6,240	<30	<36	<4,860	<32,100	<29,500	<30
1,2-Dibromo-3-Chloropropane	<6,850	<6,270	<12,500	<59	<71	<9,730	<64,300	<59,000	<61
1,2-Dibromomethane (EDB)	<3,420	<3,130	<6,240	<30	<36	<4,860	<32,100	<29,500	<30
Dibromomethane	<3,420	<3,130	<6,240	<30	<36	<4,860	<32,100	<29,500	<30
1,2-Dichlorobenzene	<3,420	<3,130	<6,240	<30	<36	<4,860	<32,100	<29,500	<30
1,3-Dichlorobenzene	<3,420	<3,130	<6,240	<30	<36	<4,860	<32,100	<29,500	<30
1,4-Dichlorobenzene	<3,420	<3,130	<6,240	<30	<36	<4,860	<32,100	<29,500	<30
Dichlorodifluoromethane	<3,420	<3,130	<6,240	<30	<36	<4,860	<32,100	<29,500	<30
1,1-Dichloroethane	<3,420	<3,130	<6,240	<30	<36	<4,860	<32,100	<29,500	<30
1,2-Dichloroethane	<3,420	<3,130	<6,240	<30	<36	<4,860	<32,100	<29,500	<30
1,1-Dichloroethene	<3,420	<3,130	<6,240	<30	<36	<4,860	<32,100	<29,500	<30
cis-1,2-Dichloroethene	<3,420	<3,130	<6,240	<30	<36	<4,860	<32,100	<29,500	<30
trans-1,2-Dichloroethene	<3,420	<3,130	<6,240	<30	<36	<4,860	<32,100	<29,500	<30
1,2-Dichloropropane	<3,420	<3,130	<6,240	<30	<36	<4,860	<32,100	<29,500	<30
1,3-Dichloropropane	<3,420	<3,130	<6,240	<30	<36	<4,860	<32,100	<29,500	<30
2,2-Dichloropropane	<3,420	<3,130	<6,240	<30	<36	<4,860	<32,100	<29,500	<30
1,1-Dichloropropene	<3,420	<3,130	<6,240	<30	<36	<4,860	<32,100	<29,500	<30
cis-1,3-Dichloropropene	<3,420	<3,130	<6,240	<30	<36	<4,860	<32,100	<29,500	<30
trans-1,3-Dichloropropene	<3,420	<3,130	<6,240	<30	<36	<4,860	<32,100	<29,500	<30
Di-isopropyl ether	<3,420	<3,130	<6,240	<30	<36	<4,860	<32,100	<29,500	<30
Ethylbenzene	4,520	17,500	23,700	344	120	8,950	<32,100	61,400	34
Hexachlorobutadiene	<4,790	<4,390	<8,740	<41	<49	<6,810	<45,000	<41,300	<42
Isopropylbenzene	<3,420	<3,130	<6,240	38	<36	<4,860	<32,100	<29,500	<30
p-Isopropyltoluene	<3,420	<3,130	<6,240	38	<36	<4,860	<32,100	<29,500	<30
Methylene Chloride	7,950 L	7,890 L	<12,500	118 L	90 L	25,300 L	308,000 L	153,000 L	94 L
Methyl-t-butyl-ether	<3,420	<3,130	<6,240	<30	<36	<4,860	<32,100	<29,500	<30
Naphthalene	112,000	313,000	612,000	5,810	2,200	214,000	540,000	1,300,000	291
n-Propylbenzene	<3,420	<3,130	<6,240	<30	<36	<4,860	<32,100	<29,500	<30
Styrene	<3,420	<3,130	<6,240	<30	<36	<4,860	<32,100	<29,500	<30
1,1,1,2-Tetrachloroethane	<3,420	<3,130	<6,240	<30	<36	<4,860	<32,100	<29,500	<30
1,1,1,2-Tetrachloroethane	<3,420	<3,130	<6,240	<30	<36	<4,860	<32,100	<29,500	<30
Tetrachloroethane	<3,420	<3,130	<6,240	<30	<36	<4,860	<32,100	<29,500	<30
Toluene	<3,420	<3,130	<6,240	120	44	<4,860	<32,100	<29,500	36
1,2,3-Trichlorobenzene	<3,420	<3,130	<6,240	<30	<36	<4,860	<32,100	<29,500	<30
1,2,4-Trichlorobenzene	<3,420	<3,130	<6,240	<30	<36	<4,860	<32,100	<29,500	<30
1,1,1-Trichloroethane	<3,420	<3,130	<6,240	<30	<36	<4,860	<32,100	<29,500	<30
1,1,2-Trichloroethane	<3,420	<3,130	<6,240	<30	<36	<4,860	<32,100	<29,500	<30
Trichloroethene	<3,420	<3,130	<6,240	<30	<36	<4,860	<32,100	<29,500	<30
Trichlorofluoromethane	<3,420	<3,130	<6,240	<30	<36	<4,860	<32,100	<29,500	<30
1,2,3-Trichloropropane	<3,420	<3,130	<6,240	<30	<36	<4,860	<32,100	<29,500	<30
1,2,4-Trimethylbenzene	4,110	12,300	21,200	213	80	8,170	<32,100	44,900	<30
1,3,5-Trimethylbenzene	<3,420	<3,130	8,360	43	<36	<4,860	<32,100	<29,500	<30
Vinyl Chloride	<3,420	<3,130	<6,240	<30	<36	<4,860	<32,100	<29,500	<30
Xylene, total	<4,790	18,800	22,500	379	129	10,500	<45,000	70,800	<42
TOTAL VOCs + Naphthalene	120,630	361,600	687,760	7,085	2,623	241,620	540,000	1,477,100	397

All units report in µg/kg

**TABLE 4**  
**TEST AMERICA - SEDIMENT SAMPLE RESULTS**

Parameter (SVOCs-8270)	SD-27	SD-27	SD-27	SD-27	SD-28	SD-28	SD-28	SD-28	
Depth	0-2	2-4	4-6	6-8	0-2	2-4	4-6	6-8	
Solids (%)	37.9	80.4	78.3	83.0	30.4	70.6	77.6	80.9	
Acenaphthene	<2.2	<0.41	<0.42	<0.40	<1.1	4.1	<0.43	<0.41	
Acenaphthylene	<2.2	<0.41	<0.42	<0.40	<1.1	<0.47	<0.43	<0.41	
Antracene	<2.2	<0.41	<0.42	<0.40	<1.1	1.1	<0.43	<0.41	
Benzo(a)anthracene	<2.2	<0.41	<0.42	<0.40	<1.1	<0.47	<0.43	<0.41	
Benzo(b)fluoranthene	<2.2	<0.41	<0.42	<0.40	<1.1	<0.47	<0.43	<0.41	
Benzo(k)fluoranthene	<2.2	<0.41	<0.42	<0.40	<1.1	<0.47	<0.43	<0.41	
Benzo(g,h,i)perylene	<2.2	<0.41	<0.42	<0.40	<1.1	<0.47	<0.43	<0.41	
Benzo(a)pyrene	<2.2	<0.41	<0.42	<0.40	<1.1	<0.47	<0.43	<0.41	
Chrysene	<2.2	<0.41	<0.42	<0.40	<1.1	<0.47	<0.43	<0.41	
Dibenzo(a,h)anthracene	<2.2	<0.41	<0.42	<0.40	<1.1	<0.47	<0.43	<0.41	
Fluoranthene		2.6	<0.41	<0.42	<0.40	<1.1	0.78	<0.41	
Fluorene	<2.2	<0.41	<0.42	<0.40	<1.1	2.1	<0.43	<0.41	
Indeno (1,2,3-cd)pyrene	<2.2	<0.41	<0.42	<0.40	<1.1	<0.47	<0.43	<0.41	
2-Methylnaphthalene	<2.2	<0.41	<0.42	<0.40	<1.1	8.4	<0.43	<0.41	
Naphthalene	<2.2	<0.41	<0.42	<0.40	2.3	18	<0.43	<0.41	
Phenanthrene	<2.2	<0.41	<0.42	<0.40	<1.1	4.4	<0.43	<0.41	
Pyrene		3.4	<0.41	<0.42	<0.40	<1.1	0.95	<0.41	
TOTAL PAHs		6	0	0	0	2.3	34.63	0	0

All units report in mg/kg

TABLE 4

## TEST AMERICA - SEDIMENT SAMPLE RESULTS

Parameter (VOCs-8260)	TEST AMERICA - SEDIMENT SAMPLE RESULTS							
	SD-27	SD-27	SD-27	SD-27	SD-28	SD-28	SD-28	SD-28
Depth	0-2	2-4	4-6	6-8	0-2	2-4	4-6	6-8
Benzene	<66	<35	<36	<34	<82	<354	<32	<31
Bromobenzene	<66	<35	<36	<34	<82	<354	<32	<31
Bromochloromethane	<66	<35	<36	<34	<82	<354	<32	<31
Bromodichloromethane	<66	<35	<36	<34	<82	<354	<32	<31
Bromoform	<66	<35	<36	<34	<82	<354	<32	<31
Bromomethane	<264	<137	<140	<133	<329	<1,420	<129	<124
n-Butylbenzene	<66	<35	<36	<34	<82	<354	<32	<31
sec-Butylbenzene	<66	<35	<36	<34	<82	<354	<32	<31
tert-Butylbenzene	<66	<35	<36	<34	<82	<354	<32	<31
Carbon Tetrachloride	<66	<35	<36	<34	<82	<354	<32	<31
Chlorobenzene	<66	<35	<36	<34	<82	<354	<32	<31
Chlorodibromomethane	<66	<35	<36	<34	<82	<354	<32	<31
Chloroethane	<92	<47	<49	<46	<120	<496	<45	<43
Chloroform	<66	<35	<36	<34	<82	<354	<32	<31
Chloromethane	<130	<68	<70	<66	<160	<708	<64	<62
2-Chlorotoluene	<66	<35	<36	<34	<82	<354	<32	<31
4-Chlorotoluene	<66	<35	<36	<34	<82	<354	<32	<31
1,2-Dibromo-3-Chloropropane	<130	<68	<70	<66	<160	<708	<64	<62
1,2-Dibromomethane (EDB)	<66	<35	<36	<34	<82	<354	<32	<31
Dibromomethane	<66	<35	<36	<34	<82	<354	<32	<31
1,2-Dichlorobenzene	<66	<35	<36	<34	<82	<354	<32	<31
1,3-Dichlorobenzene	<66	<35	<36	<34	<82	<354	<32	<31
1,4-Dichlorobenzene	<66	<35	<36	<34	<82	<354	<32	<31
Dichlorodifluoromethane	<66	<35	<36	<34	<82	<354	<32	<31
1,1-Dichloroethane	<66	<35	<36	<34	<82	<354	<32	<31
1,2-Dichloroethane	<66	<35	<36	<34	<82	<354	<32	<31
1,1-Dichloroethene	<66	<35	<36	<34	<82	<354	<32	<31
cis-1,2-Dichloroethene	<66	<35	<36	<34	<82	<354	<32	<31
trans-1,2-Dichloroethene	<66	<35	<36	<34	<82	<354	<32	<31
1,2-Dichloropropane	<66	<35	<36	<34	<82	<354	<32	<31
1,3-Dichloropropane	<66	<35	<36	<34	<82	<354	<32	<31
2,2-Dichloropropane	<66	<35	<36	<34	<82	<354	<32	<31
1,1-Dichloropropene	<66	<35	<36	<34	<82	<354	<32	<31
cis-1,3-Dichloropropene	<66	<35	<36	<34	<82	<354	<32	<31
trans-1,3-Dichloropropene	<66	<35	<36	<34	<82	<354	<32	<31
Di-isopropyl ether	<66	<35	<36	<34	<82	<354	<32	<31
Ethylbenzene	<66	<35	<36	<34	<82	<354	<32	<31
Hexachlorobutadiene	<92	<47	<49	<46	<120	<496	<45	<43
Isopropylbenzene	<66	<35	<36	<34	<82	<354	<32	<31
p-Isopropyltoluene	2,480	<35	<36	<34	<82	<354	<32	<31
Methylene Chloride	<130	120 L	<70	217 L	190 L	992 L	<64	<62
Methyl-t-butyl-ether	<66	<35	<36	<34	<82	<354	<32	<31
Naphthalene	110	61	<36	<34	559	4,390	1,420	<31
n-Propylbenzene	<66	<35	<36	<34	<82	<354	<32	<31
Styrene	<66	<35	<36	<34	<82	<354	<32	<31
1,1,1,2-Tetrachloroethane	<66	<35	<36	<34	<82	<354	<32	<31
1,1,2,2-Tetrachloroethane	<66	<35	<36	<34	<82	<354	<32	<31
Tetrachloroethane	<66	<35	<36	<34	<82	<354	<32	<31
Toluene	739	<35	<36	<34	<82	<354	<32	<31
1,2,3-Trichlorobenzene	<66	<35	<36	<34	<82	<354	<32	<31
1,2,4-Trichlorobenzene	<66	<35	<36	<34	<82	<354	<32	<31
1,1,1-Trichloroethane	<66	<35	<36	<34	<82	<354	<32	<31
1,1,2-Trichloroethane	<66	<35	<36	<34	<82	<354	<32	<31
Trichloroethene	<66	<35	<36	<34	<82	<354	<32	<31
Trichlorofluoromethane	<66	<35	<36	<34	<82	<354	<32	<31
1,2,3-Trichloropropane	<66	<35	<36	<34	<82	<354	<32	<31
1,2,4-Trimethylbenzene	<66	<35	<36	<34	99	<354	120	<31
1,3,5-Trimethylbenzene	<66	<35	<36	<34	<82	<354	<32	<31
Vinyl Chloride	<66	<35	<36	<34	<82	<354	<32	<31
Xylene, total	<92	<47	<49	<46	<120	<496	54	<43
TOTAL VOCs + Naphthalene	3,329	61	0	0	658	4,390	1,594	0

All units report in µg/kg

**TABLE 4  
TEST AMERICA - SEDIMENT SAMPLE RESULTS**

Parameter (SVOCs-8270)	SD-29	SD-29	SD-29	SD-29	SD-30	SD-30	SD-30	SD-30
Depth	0-2	2-4	4-6	6-8	0-2	2-4	4-6	6-8
Solids (%)	42.2	39.0	65.3	82.7	28.7	65.6	82.3	80.4
Acenaphthene	<3.8	<4.1	<0.52	<0.40	<10	<b>0.91</b>	<0.40	<0.41
Acenaphthylene	<3.8	<4.1	<0.52	<0.40	<10	<0.50	<0.40	<0.41
Antracene	<3.8	<4.1	<0.52	<0.40	<10	<b>0.79</b>	<0.40	<0.41
Benzo(a)anthracene	<3.8	<4.1	<0.52	<0.40	<10	<b>1.8</b>	<0.40	<0.41
Benzo(b)fluoranthene	<3.8	<4.1	<0.52	<0.40	<10	<b>0.95</b>	<0.40	<0.41
Benzo(k)fluoranthene	<3.8	<4.1	<0.52	<0.40	<10	<b>0.98</b>	<0.40	<0.41
Benzo(g,h,i)perylene	<3.8	<4.1	<0.52	<0.40	<10	<b>0.88</b>	<0.40	<0.41
Benzo(a)pyrene	<3.8	<4.1	<0.52	<0.40	<10	<b>1.5</b>	<0.40	<0.41
Chrysene	<3.8	<4.1	<0.52	<0.40	<10	<b>1.8</b>	<0.40	<0.41
Dibenzo(a,h)anthracene	<3.8	<4.1	<0.52	<0.40	<10	<0.50	<0.40	<0.41
Fluoranthene	<3.8	<4.1	<0.52	<0.40	<b>13</b>	<b>2.9</b>	<0.40	<0.41
Fluorene	<3.8	<4.1	<0.52	<0.40	<10	<b>0.56</b>	<0.40	<0.41
Indeno (1,2,3-cd)pyrene	<3.8	<4.1	<0.52	<0.40	<10	<b>0.72</b>	<0.40	<0.41
2-Methylnaphthalene	<3.8	<4.1	<0.52	<0.40	<10	<b>1.0</b>	<0.40	<0.41
Naphthalene	<3.8	<4.1	<0.52	<0.40	<10	<b>1.2</b>	<0.40	<0.41
Phenanthrene	<3.8	<4.1	<0.52	<0.40	<b>14</b>	<b>2.4</b>	<0.40	<0.41
Pyrene	<3.8	<4.1	<0.52	<0.40	<10	<b>5.0</b>	<0.40	<0.41
<b>TOTAL PAHs</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>27</b>	<b>13.78</b>	<b>0</b>	<b>0</b>

All units report in mg/kg



TABLE 4

## TEST AMERICA - SEDIMENT SAMPLE RESULTS

Parameter (VOCs-8260)	TEST AMERICA - SEDIMENT SAMPLE RESULTS							
	SD-29	SD-29	SD-29	SD-29	SD-30	SD-30	SD-30	SD-30
Depth	0-2	2-4	4-6	6-8	0-2	2-4	4-6	6-8
Benzene	<59	<64	<39	<30	<87	<38	<30	<31
Bromobenzene	<59	<64	<39	<30	<87	<38	<30	<31
Bromochloromethane	<59	<64	<39	<30	<87	<38	<30	<31
Bromodichloromethane	<59	<64	<39	<30	<87	<38	<30	<31
Bromoform	<59	<64	<39	<30	<87	<38	<30	<31
Bromomethane	<237	<256	<158	<121	<348	<152	<122	<124
n-Butylbenzene	<59	<64	<39	<30	<87	<38	<30	<31
sec-Butylbenzene	<59	<64	<39	<30	<87	<38	<30	<31
tert-Butylbenzene	<59	<64	<39	<30	<87	<38	<30	<31
Carbon Tetrachloride	<59	<64	<39	<30	<87	<38	<30	<31
Chlorobenzene	<59	<64	<39	<30	<87	<38	<30	<31
Chlorodibromomethane	<59	<64	<39	<30	<87	<38	<30	<31
Chloroethane	<83	<90	<55	<42	<120	<53	<43	<44
Chloroform	<59	<64	<39	<30	<87	<38	<30	<31
Chloromethane	<120	<130	<79	<60	<170	<76	<61	<62
2-Chlorotoluene	<59	<64	<39	<30	<87	<38	<30	<31
4-Chlorotoluene	<59	<64	<39	<30	<87	<38	<30	<31
1,2-Dibromo-3-Chloropropane	<120	<130	<79	<60	<170	<76	<61	<62
1,2-Dibromomethane (EDB)	<59	<64	<39	<30	<87	<38	<30	<31
Dibromomethane	<59	<64	<39	<30	<87	<38	<30	<31
1,2-Dichlorobenzene	<59	<64	<39	<30	<87	<38	<30	<31
1,3-Dichlorobenzene	<59	<64	<39	<30	<87	<38	<30	<31
1,4-Dichlorobenzene	<59	<64	<39	<30	<87	<38	<30	<31
Dichlorodifluoromethane	<59	<64	<39	<30	<87	<38	<30	<31
1,1-Dichloroethane	<59	<64	<39	<30	<87	<38	<30	<31
1,2-Dichloroethane	<59	<64	<39	<30	<87	<38	<30	<31
1,1-Dichloroethene	<59	<64	<39	<30	<87	<38	<30	<31
cis-1,2-Dichloroethene	<59	<64	<39	<30	<87	<38	<30	<31
trans-1,2-Dichloroethene	<59	<64	<39	<30	<87	<38	<30	<31
1,2-Dichloropropane	<59	<64	<39	<30	<87	<38	<30	<31
1,3-Dichloropropane	<59	<64	<39	<30	<87	<38	<30	<31
2,2-Dichloropropane	<59	<64	<39	<30	<87	<38	<30	<31
1,1-Dichloropropene	<59	<64	<39	<30	<87	<38	<30	<31
cis-1,3-Dichloropropene	<59	<64	<39	<30	<87	<38	<30	<31
trans-1,3-Dichloropropene	<59	<64	<39	<30	<87	<38	<30	<31
Di-isopropyl ether	<59	<64	<39	<30	<87	<38	<30	<31
Ethylbenzene	<59	<64	<39	<30	<87	<38	<30	<31
Hexachlorobutadiene	<83	<90	<55	<42	<170	<53	<43	<44
Isopropylbenzene	<59	<64	<39	<30	<87	<38	<30	<31
p-Isopropyltoluene	<59	<64	76	<30	160	99	<30	<31
Methylene Chloride	210 L	256 L	140 L	100 L	170 L	<76	110 L	137 L
Methyl-t-butyl-ether	<59	<64	<39	<30	<87	<38	<30	<31
Naphthalene	<59	<64	<39	<30	240	58	<30	<31
n-Propylbenzene	<59	<64	<39	<30	<87	<38	<30	<31
Styrene	<59	<64	<39	<30	<87	<38	<30	<31
1,1,1,2-Tetrachloroethane	<59	<64	<39	<30	<87	<38	<30	<31
1,1,1,2-Tetrachloroethane	<59	<64	<39	<30	<87	<38	<30	<31
Tetrachloroethane	<59	<64	<39	<30	<87	<38	<30	<31
Toluene	<59	<64	44	<30	100	120	<30	<31
1,2,3-Trichlorobenzene	<59	<64	<39	<30	<87	<38	<30	<31
1,2,4-Trichlorobenzene	<59	<64	<39	<30	<87	<38	<30	<31
1,1,1-Trichloroethane	<59	<64	<39	<30	<87	<38	<30	<31
1,1,2-Trichloroethane	<59	<64	<39	<30	<87	<38	<30	<31
Trichloroethene	<59	<64	<39	<30	<87	<38	<30	<31
Trichlorofluoromethane	<59	<64	<39	<30	<87	<38	<30	<31
1,2,3-Trichloropropane	<59	<64	<39	<30	<87	<38	<30	<31
1,2,4-Trimethylbenzene	<59	<64	<39	<30	<87	<38	<30	<31
1,3,5-Trimethylbenzene	<59	<64	<39	<30	<87	<38	<30	<31
Vinyl Chloride	<59	<64	<39	<30	<87	<38	<30	<31
Xylene, total	<83	<90	<55	<42	<120	<53	<43	<44
TOTAL VOCs + Naphthalene	0	0	120	0	500	277	0	0

All units report in µg/kg

**TABLE 4  
TEST AMERICA - SEDIMENT SAMPLE RESULTS**

Parameter (SVOCs-8270)	SD-31	SD-31	SD-31	SD-31	SD-32	SD-32	SD-32	SD-32
Depth	2-4	4-6	8-10	12-14	2-4	4-6	6-8	10-12
Solids (%)	77.3	81.2	77.0	80.7	75.2	83.0	79.5	80.5
Acenaphthene	26	<0.41	<0.43	<0.41	7.3	<0.40	<0.42	<0.41
Acenaphthylene	<2.1	<0.41	<0.43	<0.41	<2.1	<0.40	<0.42	<0.41
Anthracene	8.4	<0.41	<0.43	<0.41	2.3	<0.40	<0.42	<0.41
Benzo(a)anthracene	3.9	<0.41	<0.43	<0.41	<2.1	<0.40	<0.42	<0.41
Benzo(b)fluoranthene	<2.1	<0.41	<0.43	<0.41	<2.1	<0.40	<0.42	<0.41
Benzo(k)fluoranthene	<2.1	<0.41	<0.43	<0.41	<2.1	<0.40	<0.42	<0.41
Benzo(g,h,i)perylene	<2.1	<0.41	<0.43	<0.41	<2.1	<0.40	<0.42	<0.41
Benzo(a)pyrene	3.6	<0.41	<0.43	<0.41	<2.1	<0.40	<0.42	<0.41
Chrysene	3.9	<0.41	<0.43	<0.41	<2.1	<0.40	<0.42	<0.41
Dibenzo(a,h)anthracene	<2.1	<0.41	<0.43	<0.41	<2.1	<0.40	<0.42	<0.41
Fluoranthene	9.6	<0.41	<0.43	<0.41	2.8	<0.40	<0.42	<0.41
Fluorene	13	<0.41	<0.43	<0.41	3.5	<0.40	<0.42	<0.41
Indeno (1,2,3-cd)pyrene	<2.1	<0.41	<0.43	<0.41	<2.1	<0.40	<0.42	<0.41
2-Methylnaphthalene	43	0.59	<0.43	<0.41	10	<0.40	<0.42	<0.41
Naphthalene	80	1.4	<0.43	<0.41	16	<0.40	<0.42	<0.41
Phenanthrene	30	<0.41	<0.43	<0.41	8.9	0.46	<0.42	<0.41
Pyrene	16	<0.41	<0.43	<0.41	4.4	<0.40	<0.42	<0.41
TOTAL PAHs	191.6	1.99	0	0	45.6	0.46	0	0

All units reported in mg/kg

TABLE 4

## TEST AMERICA - SEDIMENT SAMPLE RESULTS

Parameter (VOCs-8260)	TEST AMERICA - SEDIMENT SAMPLE RESULTS							
	SD-31	SD-31	SD-31	SD-31	SD-32	SD-32	SD-32	SD-32
Depth	2-4	4-6	8-10	12-14	2-4	4-6	6-8	10-12
Benzene	<3,230	<31	<32	<31	<3,320	<30	40	<31
Bromobenzene	<3,230	<31	<32	<31	<3,320	<30	<31	<31
Bromochloromethane	<3,230	<31	<32	<31	<3,320	<30	<31	<31
Bromodichloromethane	<3,230	<31	<32	<31	<3,320	<30	<31	<31
Bromoform	<3,230	<31	<32	<31	<3,320	<30	<31	<31
Bromomethane	<12,900	<123	<130	<124	<13,300	<120	<126	<124
n-Butylbenzene	<3,230	<31	<32	<31	<3,320	<30	<31	<31
sec-Butylbenzene	<3,230	<31	<32	<31	<3,320	<30	<31	<31
tert-Butylbenzene	<3,230	<31	<32	<31	<3,320	<30	<31	<31
Carbon Tetrachloride	<3,230	<31	<32	<31	<3,320	<30	<31	<31
Chlorobenzene	<3,230	<31	<32	<31	<3,320	<30	<31	<31
Chlorodibromomethane	<3,230	<31	<32	<31	<3,320	<30	<31	<31
Chloroethane	<4,530	<43	<45	<43	<4,650	<42	<44	<43
Chloroform	<3,230	<31	<32	<31	<3,320	<30	<31	<31
Chloromethane	<6,470	<62	<65	<62	<6,650	<60	<63	<62
2-Chlorotoluene	<3,230	<31	<32	<31	<3,320	<30	<31	<31
4-Chlorotoluene	<3,230	<31	<32	<31	<3,320	<30	<31	<31
1,2-Dibromo-3-Chloropropane	<6,470	<62	<65	<62	<6,650	<60	<63	<62
1,2-Dibromomethane (EDB)	<3,230	<31	<32	<31	<3,320	<30	<31	<31
Dibromomethane	<3,230	<31	<32	<31	<3,320	<30	<31	<31
1,2-Dichlorobenzene	<3,230	<31	<32	<31	<3,320	<30	<31	<31
1,3-Dichlorobenzene	<3,230	<31	<32	<31	<3,320	<30	<31	<31
1,4-Dichlorobenzene	<3,230	<31	<32	<31	<3,320	<30	<31	<31
Dichlorodifluoromethane	<3,230	<31	<32	<31	<3,320	<30	<31	<31
1,1-Dichloroethane	<3,230	<31	<32	<31	<3,320	<30	<31	<31
1,2-Dichloroethane	<3,230	<31	<32	<31	<3,320	<30	<31	<31
1,1-Dichloroethene	<3,230	<31	<32	<31	<3,320	<30	<31	<31
cis-1,2-Dichloroethene	<3,230	<31	<32	<31	<3,320	<30	<31	<31
trans-1,2-Dichloroethene	<3,230	<31	<32	<31	<3,320	<30	<31	<31
1,2-Dichloropropane	<3,230	<31	<32	<31	<3,320	<30	<31	<31
1,3-Dichloropropane	<3,230	<31	<32	<31	<3,320	<30	<31	<31
2,2-Dichloropropane	<3,230	<31	<32	<31	<3,320	<30	<31	<31
1,1-Dichloropropene	<3,230	<31	<32	<31	<3,320	<30	<31	<31
cis-1,3-Dichloropropene	<3,230	<31	<32	<31	<3,320	<30	<31	<31
trans-1,3-Dichloropropene	<3,230	<31	<32	<31	<3,320	<30	<31	<31
Di-isopropyl ether	<3,230	<31	<32	<31	<3,320	<30	<31	<31
Ethylbenzene	25,900	68	<32	<31	30,600	53	38	<31
Hexachlorobutadiene	<4,530	<43	<45	<43	<4,650	<42	<44	<43
Isopropylbenzene	<3,230	<31	<32	<31	<3,320	<30	<31	<31
p-Isopropyltoluene	<3,230	<31	<32	<31	<3,320	<30	<31	<31
Methylene Chloride	18,100 L	123 L	130 L	136 L	19,900 L	289 L	277 L	149 L
Methyl-t-butyl-ether	<3,230	<31	<32	<31	<3,320	<30	<31	<31
Naphthalene	401,000	505	<32	33	665,000	1,450	314	57
n-Propylbenzene	<3,230	<31	<32	<31	<3,320	<30	<31	<31
Styrene	<3,230	<31	<32	<31	<3,320	<30	<31	<31
1,1,1,2-Tetrachloroethane	<3,230	<31	<32	<31	<3,320	<30	<31	<31
1,1,1,2,2-Tetrachloroethane	<3,230	<31	<32	<31	<3,320	<30	<31	<31
Tetrachloroethane	<3,230	<31	<32	<31	<3,320	<30	<31	<31
Toluene	<3,230	<31	<32	<31	5,320	<30	36	<31
1,2,3-Trichlorobenzene	<3,230	<31	<32	<31	<3,320	<30	<31	<31
1,2,4-Trichlorobenzene	<3,230	<31	<32	<31	<3,320	<30	<31	<31
1,1,1-Trichloroethane	<3,230	<31	<32	<31	<3,320	<30	<31	<31
1,1,2-Trichloroethane	<3,230	<31	<32	<31	<3,320	<30	<31	<31
Trichloroethene	<3,230	<31	<32	<31	<3,320	<30	<31	<31
Trichlorofluoromethane	<3,230	<31	<32	<31	<3,320	<30	<31	<31
1,2,3-Trichloropropane	<3,230	<31	<32	<31	<3,320	<30	<31	<31
1,2,4-Trimethylbenzene	12,500	<31	<32	<31	16,000	<30	<31	<31
1,3,5-Trimethylbenzene	<3,230	<31	<32	<31	6,120	<30	<31	<31
Vinyl Chloride	<3,230	<31	<32	<31	<3,320	<30	<31	<31
Xylene, total	22,000	54	<45	<43	22,600	53	<44	<43
TOTAL VOCs + Naphthalene	461,400	627	0	33	745,640	1,556	428	57

All units report in µg/kg

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**TABLE 4**  
**TEST AMERICA - SEDIMENT SAMPLE RESULTS**

Parameter (SVOCs-8270)	SD-33	SD-33	SD-33	SD-33	SD-33	SD-34	SD-34	SD-34
Depth	0-2	2-4	4-6	6-8	8-10	2-4	4-6	6-8
Solids (%)	77.3	75.3	82.6	83.2	80.7	80.3	81.0	80.0
Acenaphthene	36	31	133	6.1	<0.41	2.4	0.69	0.66
Acenaphthylene	1.8	2.0	9.8	<0.76	<0.41	<0.41	<0.41	<0.41
Anthracene	10	8.0	39	2.0	<0.41	0.76	<0.41	<0.41
Benzo(a)anthracene	7.1	5.4	23	1.1	<0.41	<0.41	<0.41	<0.41
Benzo(b)fluoranthene	2.7	2.1	8.7	<0.76	<0.41	<0.41	<0.41	<0.41
Benzo(k)fluoranthene	3.8	2.9	12	<0.76	<0.41	<0.41	<0.41	<0.41
Benzo(g,h,l)perylene	3.1	2.4	9.9	<0.76	<0.41	<0.41	<0.41	<0.41
Benzo(a)pyrene	6.6	5.0	22	0.94	<0.41	<0.41	<0.41	<0.41
Chrysene	6.7	5.0	22	1.0	<0.41	<0.41	<0.41	<0.41
Dibenzo(a,h)anthracene	0.57	0.46	<3.9	<0.76	<0.41	<0.41	<0.41	<0.41
Fluoranthene	18	13	54	2.9	<0.41	0.91	0.42	<0.41
Fluorene	13	9.6	58	2.9	<0.41	1.2	<0.41	<0.41
Indeno (1,2,3-cd)pyrene	2.8	2.3	9.1	<0.76	<0.41	<0.41	<0.41	<0.41
2-Methylnaphthalene	45	44	206	7.3	<0.41	3.7	0.70	0.91
Naphthalene	52	70	339	9.9	<0.41	6.8	0.62	1.1
Phenanthrene	50	39	169	8.4	<0.41	3.1	1.4	0.85
Pyrene	26	19	74	4.1	<0.41	1.2	0.58	<0.41
TOTAL PAHs	206.8	196.9	909.1	35.5	0	16.91	3.72	2.86

All units reported in mg/kg

TABLE 4

## TEST AMERICA - SEDIMENT SAMPLE RESULTS

Parameter (VOCs-8260)	TEST AMERICA - SEDIMENT SAMPLE RESULTS								
	SD-33	SD-33	SD-33	SD-33	SD-33	SD-34	SD-34	SD-34	SD-34
Depth	0-2	2-4	4-6	6-8	8-10	2-4	4-6	6-8	6-8
Benzene	<323	40	<30	<30	<31	87	<31	<625	<625
Bromobenzene	<323	<33	<30	<30	<31	<31	<31	<625	<625
Bromochloromethane	<323	<33	<30	<30	<31	<31	<31	<625	<625
Bromodichloromethane	<323	<33	<30	<30	<31	<31	<31	<625	<625
Bromoform	<323	<33	<30	<30	<31	<31	<31	<625	<625
Bromomethane	<1,290	<133	<121	<120	<124	<125	<123	<2,500	<2,500
n-Butylbenzene	<323	<33	<30	<30	<31	<31	<31	<625	<625
sec-Butylbenzene	<323	<33	<30	<30	<31	<31	<31	<625	<625
tert-Butylbenzene	<323	<33	<30	<30	<31	<31	<31	<625	<625
Carbon Tetrachloride	<323	<33	<30	<30	<31	<31	<31	<625	<625
Chlorobenzene	<323	<33	<30	<30	<31	<31	<31	<625	<625
Chlorodibromomethane	<323	<33	<30	<30	<31	<31	<31	<625	<625
Chloroethane	<453	<46	<42	<42	<43	<44	<43	<875	<875
Chloroform	<323	<33	<30	<30	<31	<31	<31	<625	<625
Chloromethane	<647	<66	<61	<60	<62	<62	<62	<1,250	<1,250
2-Chlorotoluene	<323	<33	<30	<30	<31	<31	<31	<625	<625
4-Chlorotoluene	<323	<33	<30	<30	<31	<31	<31	<625	<625
1,2-Dibromo-3-Chloropropane	<647	<66	<61	<61	<62	<62	<62	<1,250	<1,250
1,2-Dibromomethane (EDB)	<323	<33	<30	<30	<31	<31	<31	<625	<625
Dibromomethane	<323	<33	<30	<30	<31	<31	<31	<625	<625
1,2-Dichlorobenzene	<323	<33	<30	<30	<31	<31	<31	<625	<625
1,3-Dichlorobenzene	<323	<33	<30	<30	<31	<31	<31	<625	<625
1,4-Dichlorobenzene	<323	<33	<30	<30	<31	<31	<31	<625	<625
Dichlorodifluoromethane	<323	<33	<30	<30	<31	<31	<31	<625	<625
1,1-Dichloroethane	<323	<33	<30	<30	<31	<31	<31	<625	<625
1,2-Dichloroethane	<323	<33	<30	<30	<31	<31	<31	<625	<625
1,1-Dichloroethene	<323	<33	<30	<30	<31	<31	<31	<625	<625
cis-1,2-Dichloroethene	<323	<33	<30	<30	<31	<31	<31	<625	<625
trans-1,2-Dichloroethene	<323	<33	<30	<30	<31	<31	<31	<625	<625
1,2-Dichloropropane	<323	<33	<30	<30	<31	<31	<31	<625	<625
1,3-Dichloropropane	<323	<33	<30	<30	<31	<31	<31	<625	<625
2,2-Dichloropropane	<323	<33	<30	<30	<31	<31	<31	<625	<625
1,1-Dichloropropene	<323	<33	<30	<30	<31	<31	<31	<625	<625
cis-1,3-Dichloropropene	<323	<33	<30	<30	<31	<31	<31	<625	<625
trans-1,3-Dichloropropene	<323	<33	<30	<30	<31	<31	<31	<625	<625
Di-isopropyl ether	<323	<33	<30	<30	<31	<31	<31	<625	<625
Ethylbenzene	1,810	677	157	697	<31	1,020	84	<625	<625
Hexachlorobutadiene	<453	<46	<42	<42	<43	<44	<43	<875	<875
Isopropylbenzene	440	53	<30	79	<31	85	<31	<625	<625
p-Isopropyltoluene	1,220	58	<30	110	<31	62	<31	<625	<625
Methylene Chloride	<647	<66	<61	<60	<62	110 L	<62	1,500 L	1,500 L
Methyl-t-butyl-ether	<323	<33	<30	<30	<31	<31	<31	<625	<625
Naphthalene	181,000	19,900	3,270,000	27,600	110	19,900	1,140	11,800	11,800
n-Propylbenzene	<323	<33	<30	<30	<31	<31	<31	<625	<625
Styrene	<323	<33	<30	<30	<31	<31	<31	<625	<625
1,1,1,2-Tetrachloroethane	<323	<33	<30	<30	<31	<31	<31	<625	<625
1,1,2,2-Tetrachloroethane	<323	<33	<30	<30	<31	<31	<31	<625	<625
Tetrachloroethane	<323	<33	<30	<30	<31	<31	<31	<625	<625
Toluene	<323	35	<30	72	<31	224	<31	<625	<625
1,2,3-Trichlorobenzene	<323	<33	<30	<30	<31	<31	<31	<625	<625
1,2,4-Trichlorobenzene	<323	<33	<30	<30	<31	<31	<31	<625	<625
1,1,1-Trichloroethane	<323	<33	<30	<30	<31	<31	<31	<625	<625
1,1,2-Trichloroethane	<323	<33	<30	<30	<31	<31	<31	<625	<625
Trichloroethene	<323	<33	<30	<30	<31	<31	<31	<625	<625
Trichlorofluoromethane	<323	<33	<30	<30	<31	<31	<31	<625	<625
1,2,3-Trichloropropane	<323	<33	<30	<30	<31	<31	<31	<625	<625
1,2,4-Trimethylbenzene	3,100	305	98	517	<31	486	<31	<625	<625
1,3,5-Trimethylbenzene	1,030	110	39	180	<31	149	<31	<625	<625
Vinyl Chloride	<323	<33	<30	<30	<31	<31	<31	<625	<625
Xylene, total	1,550	584	133	625	<43	996	48	<875	<875
TOTAL VOCs + Naphthalene	190,150	21,762	3,270,427	29,880	110	23,009	1,272	11,800	11,800

All units report in µg/kg

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**TABLE 4  
TEST AMERICA - SEDIMENT SAMPLE RESULTS**

Parameter (SVOCs-8270)	SD-35	SD-35	SD-35	SD-35	SD-36	SD-36	SD-36	SD-36
Depth	2-4	4-6	6-8	8-10	2-4	4-6	6-8	8-10
Solids (%)	81.2	82.0	82.0	89.9	85.2	86.5	68.7	80.8
Acenaphthene	0.97	4.4	<0.40	<0.37	72	370	247	<0.41
Acenaphthylene	<0.41	0.4	<0.40	<0.37	3.9	28	22	<0.41
Anthracene	<0.41	1.6	<0.40	<0.37	21	173	82	<0.41
Benzo(a)anthracene	<0.41	1.0	<0.40	<0.37	9.9	71	39	<0.41
Benzo(b)fluoranthene	<0.41	<0.40	<0.40	<0.37	4.0	27	16	<0.41
Benzo(k)fluoranthene	<0.41	0.52	<0.40	<0.37	5.4	25	19	<0.41
Benzo(g,h,i)perylene	<0.41	0.44	<0.40	<0.37	3.4	18	13	<0.41
Benzo(a)pyrene	<0.41	1.0	<0.40	<0.37	8.2	43	31	<0.41
Chrysene	<0.41	0.98	<0.40	<0.37	9.2	66	36	<0.41
Dibenzo(a,h)anthracene	<0.41	<0.40	<0.40	<0.37	1.1	6.4	<4.7	<0.41
Fluoranthene	<0.41	2.6	<0.40	<0.37	21	150	84	<0.41
Fluorene	<0.41	2.2	<0.40	<0.37	33	243	160	<0.41
Indeno (1,2,3-cd)pyrene	<0.41	<0.40	<0.40	<0.37	3.4	17	11	<0.41
2-Methylnaphthalene	1.4	5.0	<0.40	<0.37	129	786	466	<0.41
Naphthalene	3.6	6.5	<0.40	<0.37	164	1,030	582	<0.41
Phenanthrene	1.1	6.5	0.90	<0.37	81	405	291	<0.41
Pyrene	0.43	3.5	0.41	<0.37	29	208	100	<0.41
TOTAL PAHs	6.53	26.3	1.31	0	460.4	2839	1694	0

All units reported in mg/kg

TABLE 4

## TEST AMERICA - SEDIMENT SAMPLE RESULTS

Parameter (VOCs-8260)	TEST AMERICA - SEDIMENT SAMPLE RESULTS								
	SD-35 Depth	SD-35 2-4	SD-35 4-6	SD-35 6-8	SD-35 8-10	SD-36 2-4	SD-36 4-6	SD-36 6-8	SD-36 8-10
Benzene		31	<305	<30	<31	1,290	<28,900	786	100
Bromobenzene		<31	<305	<30	<31	<329	<28,900	<364	<31
Bromochloromethane		<31	<305	<30	<31	<329	<28,900	<364	<31
Bromodichloromethane		<31	<305	<30	<31	<329	<28,900	<364	<31
Bromoform		<31	<305	<30	<31	<329	<28,900	<364	<31
Bromomethane		<123	<1,200	<122	<122	<1,290	<116,000	<1,460	<124
n-Butylbenzene		<31	<305	<30	<31	<329	<28,900	<364	<31
sec-Butylbenzene		<31	<305	<30	<31	<329	<28,900	<364	<31
tert-Butylbenzene		<31	<305	<30	<31	<329	<28,900	<364	<31
Carbon Tetrachloride		<31	<305	<30	<31	<329	<28,900	<364	<31
Chlorobenzene		<31	<305	<30	<31	<329	<28,900	<364	<31
Chlorodibromomethane		<31	<305	<30	<31	<329	<28,900	<364	<31
Chloroethane		<43	<427	<43	<42	<446	<40,500	<509	<43
Chloroform		<31	<305	<30	<31	<329	<28,900	<364	<31
Chloromethane		<62	<610	<61	<61	<646	<57,800	<728	<62
2-Chlorotoluene		<31	<305	<30	<31	<329	<28,900	<364	<31
4-Chlorotoluene		<31	<305	<30	<31	<329	<28,900	<364	<31
1,2-Dibromo-3-Chloropropane		<62	<610	<61	<61	<646	<57,800	<728	<62
1,2-Dibromomethane (EDB)		<31	<305	<30	<31	<329	<28,900	<364	<31
Dibromomethane		<31	<305	<30	<31	<329	<28,900	<364	<31
1,2-Dichlorobenzene		<31	<305	<30	<31	<329	<28,900	<364	<31
1,3-Dichlorobenzene		<31	<305	<30	<31	<329	<28,900	<364	<31
1,4-Dichlorobenzene		<31	<305	<30	<31	<329	<28,900	<364	<31
Dichlorodifluoromethane		<31	<305	<30	<31	<329	<28,900	<364	<31
1,1-Dichloroethane		<31	<305	<30	<31	<329	<28,900	<364	<31
1,2-Dichloroethane		<31	<305	<30	<31	<329	<28,900	<364	<31
1,1-Dichloroethene		<31	<305	<30	<31	<329	<28,900	<364	<31
cis-1,2-Dichloroethene		<31	<305	<30	<31	<329	<28,900	<364	<31
trans-1,2-Dichloroethene		<31	<305	<30	<31	<329	<28,900	<364	<31
1,2-Dichloropropane		<31	<305	<30	<31	<329	<28,900	<364	<31
1,3-Dichloropropane		<31	<305	<30	<31	<329	<28,900	<364	<31
2,2-Dichloropropane		<31	<305	<30	<31	<329	<28,900	<364	<31
1,1-Dichloropropene		<31	<305	<30	<31	<329	<28,900	<364	<31
cis-1,3-Dichloropropene		<31	<305	<30	<31	<329	<28,900	<364	<31
trans-1,3-Dichloropropene		<31	<305	<30	<31	<329	<28,900	<364	<31
Di-isopropyl ether		<31	<305	<30	<31	<329	<28,900	<364	<31
Ethylbenzene		419	378	<30	<31	17,600	90,200	7,130	161
Hexachlorobutadiene		<43	<427	<43	<42	<446	<40,500	<509	<43
Isopropylbenzene		32	<305	<30	<31	2,110	<28,900	859	<31
p-Isopropyltoluene		<31	<305	<30	<31	1,640	<28,900	611	<31
Methylene Chloride		67 L	3,170	207 L	133 L	1,530 L	173,000 L	2,040 L	110 L
Methyl-t-butyl-ether		<31	<305	<30	<31	<329	<28,900	<364	<31
Naphthalene		8,870	24,400	951	145	305,000	1,730,000	125,000	1,360
n-Propylbenzene		<31	<305	<30	<31	798	<28,900	<364	<31
Styrene		<31	<305	<30	<31	<329	<28,900	<364	<31
1,1,1,2-Tetrachloroethane		<31	<305	<30	<31	<329	<28,900	<364	<31
1,1,2,2-Tetrachloroethane		<31	<305	<30	<31	<329	<28,900	<364	<31
Tetrachloroethane		<31	<305	<30	<31	<329	<28,900	<364	<31
Toluene		224	<305	<30	<31	2,350	32,400	3,060	69
1,2,3-Trichlorobenzene		<31	<305	<30	<31	<329	<28,900	<364	<31
1,2,4-Trichlorobenzene		<31	<305	<30	<31	<329	<28,900	<364	<31
1,1,1-Trichloroethane		<31	<305	<30	<31	<329	<28,900	<364	<31
1,1,2-Trichloroethane		<31	<305	<30	<31	<329	<28,900	<364	<31
Trichloroethene		<31	<305	<30	<31	<329	<28,900	<364	<31
Trichlorofluoromethane		<31	<305	<30	<31	<329	<28,900	<364	<31
1,2,3-Trichloropropane		<31	<305	<30	<31	<329	<28,900	<364	<31
1,2,4-Trimethylbenzene		172	439	<30	<31	12,900	60,100	4,950	50
1,3,5-Trimethylbenzene		60	<305	<30	<31	3,050	<28,900	1,340	<31
Vinyl Chloride		<31	<305	<30	<31	<329	<28,900	<364	<31
Xylene, total		369	<427	<43	<42	20,000	104,000	8,010	186
TOTAL VOCs + Naphthalene		10,177	28,387	951	145	366,738	2,016,700	151,746	1,926

All units report in µg/kg

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**TABLE 4  
TEST AMERICA - SEDIMENT SAMPLE RESULTS**

Parameter (SVOCs-8270)	SD-37	SD-37	SD-37	SD-38	SD-38	SD-38	SD-38
Depth	0-2	4-6	6-8	0-2	2-4	4-6	6-8
Solids (%)	37.3	80.5	80.8	19.7	74.8	80.6	79.8
Acenaphthene	<21	149	<0.41	<4.8	<0.44	<0.86	<0.41
Acenaphthylene	<21	15	<0.41	<4.8	<0.44	<0.86	<0.41
Antracene	<21	66	<0.41	<4.8	<0.44	<0.86	<0.41
Benzo(a)anthracene	<21	22	<0.41	<4.8	<0.44	<0.86	<0.41
Benzo(b)fluoranthene	<21	8.2	<0.41	<4.8	<0.44	<0.86	<0.41
Benzo(k)fluoranthene	<21	12	<0.41	<4.8	<0.44	<0.86	<0.41
Benzo(g,h,i)perylene	<21	7.3	<0.41	<4.8	<0.44	<0.86	<0.41
Benzo(a)pyrene	<21	17	<0.41	<4.8	<0.44	<0.86	<0.41
Chrysene	<21	21	<0.41	<4.8	<0.44	<0.86	<0.41
Dibenzo(a,h)anthracene	<21	2.4	<0.41	<4.8	<0.44	<0.86	<0.41
Fluoranthene	<21	45	<0.41	<4.8	<0.44	<0.86	<0.41
Fluorene	<21	93	<0.41	<4.8	<0.44	<0.86	<0.41
Indeno (1,2,3-cd)pyrene	<21	6.6	<0.41	<4.8	<0.44	<0.86	<0.41
2-Methylnaphthalene	<21	273	<0.41	<4.8	<0.44	<0.86	<0.41
Naphthalene	<21	323	<0.41	6.1	<0.44	<0.86	<0.41
Phenanthrene	<21	174	<0.41	<4.8	<0.44	<0.86	<0.41
Pyrene	<21	75	<0.41	<4.8	<0.44	<0.86	<0.41
<b>TOTAL PAHs</b>	0	989.6	0	6.1	0	0	0

All units reported in mg/kg



**TABLE 4**  
**TEST AMERICA - SEDIMENT SAMPLE RESULTS**

Parameter (VOCs-8260)	SD-37	SD-37	SD-37	SD-38	SD-38	SD-38	SD-38
	Depth	0-2	4-6	6-8	0-2	2-4	4-6
Benzene	<67	<31,100	89	<130	<33	<35	<35
Bromobenzene	<67	<31,100	<31	<130	<33	<35	<35
Bromochloromethane	<67	<31,100	<31	<130	<33	<35	<35
Bromodichloromethane	<67	<31,100	<31	<130	<33	<35	<35
Bromoform	<67	<31,100	<31	<130	<33	<35	<35
Bromomethane	<268	<124,000	<124	<508	<134	<136	<138
n-Butylbenzene	<67	<31,100	<31	<130	<33	<35	<35
sec-Butylbenzene	<67	<31,100	<31	<130	<33	<35	<35
tert-Butylbenzene	<67	<31,100	<31	<130	<33	<35	<35
Carbon Tetrachloride	<67	<31,100	<31	<130	<33	<35	<35
Chlorobenzene	<67	<31,100	<31	<130	<33	<35	<35
Chlorodibromomethane	<67	<31,100	<31	<130	<33	<35	<35
Chloroethane	<94	<43,500	<43	<180	<47	<47	<48
Chloroform	<67	<31,100	<31	<130	<33	<35	<35
Chloromethane	<130	<62,100	<62	<250	<67	<68	<69
2-Chlorotoluene	<67	<31,100	<31	<130	<33	<35	<35
4-Chlorotoluene	<67	<31,100	<31	<130	<33	<35	<35
1,2-Dibromo-3-Chloropropane	<130	<62,100	<62	<250	<67	<68	<69
1,2-Dibromomethane (EDB)	<67	<31,100	<31	<130	<33	<35	<35
Dibromomethane	<67	<31,100	<31	<130	<33	<35	<35
1,2-Dichlorobenzene	<67	<31,100	<31	<130	<33	<35	<35
1,3-Dichlorobenzene	<67	<31,100	<31	<130	<33	<35	<35
1,4-Dichlorobenzene	<67	<31,100	<31	<130	<33	<35	<35
Dichlorodifluoromethane	<67	<31,100	<31	<130	<33	<35	<35
1,1-Dichloroethane	<67	<31,100	<31	<130	<33	<35	<35
1,2-Dichloroethane	<67	<31,100	<31	<130	<33	<35	<35
1,1-Dichloroethene	<67	<31,100	<31	<130	<33	<35	<35
cis-1,2-Dichloroethene	<67	<31,100	<31	<130	<33	<35	<35
trans-1,2-Dichloroethene	<67	<31,100	<31	<130	<33	<35	<35
1,2-Dichloropropane	<67	<31,100	<31	<130	<33	<35	<35
1,3-Dichloropropane	<67	<31,100	<31	<130	<33	<35	<35
2,2-Dichloropropane	<67	<31,100	<31	<130	<33	<35	<35
1,1-Dichloropropene	<67	<31,100	<31	<130	<33	<35	<35
cis-1,3-Dichloropropene	<67	<31,100	<31	<130	<33	<35	<35
trans-1,3-Dichloropropene	<67	<31,100	<31	<130	<33	<35	<35
Di-isopropyl ether	<67	<31,100	<31	<130	<33	<35	<35
Ethylbenzene	<67	<31,100	235	<130	<33	<35	<35
Hexachlorobutadiene	<94	<43,500	<43	<180	<47	<47	<48
Isopropylbenzene	<67	<31,100	<31	<130	<33	<35	<35
p-Isopropyltoluene	160	<31,100	<31	914	227	<35	<35
Methylene Chloride	<160	161,000 L	100 L	<250	<67	<68	<69
Methyl-t-butyl-ether	<67	<31,100	<31	<130	<33	<35	<35
Naphthalene	590	770,000	1,490	<130	<33	<35	<35
n-Propylbenzene	<67	<31,100	<31	<130	<33	<35	<35
Styrene	<67	<31,100	<31	<130	<33	<35	<35
1,1,1,2-Tetrachloroethane	<67	<31,100	<31	<130	<33	<35	<35
1,1,1,2,2-Tetrachloroethane	<67	<31,100	<31	<130	<33	<35	<35
Tetrachloroethane	<67	<31,100	<31	<130	<33	<35	<35
Toluene	180	<31,100	48	2,230	267	<35	<35
1,2,3-Trichlorobenzene	<67	<31,100	<31	<130	<33	<35	<35
1,2,4-Trichlorobenzene	<67	<31,100	<31	<130	<33	<35	<35
1,1,1-Trichloroethane	<67	<31,100	<31	<130	<33	<35	<35
1,1,2-Trichloroethane	<67	<31,100	<31	<130	<33	<35	<35
Trichloroethene	<67	<31,100	<31	<130	<33	<35	<35
Trichlorofluoromethane	<67	<31,100	<31	<130	<33	<35	<35
1,2,3-Trichloropropane	<67	<31,100	<31	<130	<33	<35	<35
1,2,4-Trimethylbenzene	322	<31,100	54	<130	<33	<35	<35
1,3,5-Trimethylbenzene	<67	<31,100	<31	<130	<33	<35	<35
Vinyl Chloride	<67	<31,100	<31	<130	<33	<35	<35
Xylene, total	<94	<43,500	235	<180	<47	<47	<48
TOTAL VOCs + Naphthalene		1,252	770,000	2,151	3,144	494	0

All units report in µg/kg

**TABLE 4  
TEST AMERICA - SEDIMENT SAMPLE RESULTS**

Parameter (SVOCs-8270)	SD-39	SD-39	SD-39	SD-39	SD-40	SD-40	SD-40
Depth	0-2	2-4	4-6	6-8	2-4	4-6	6-8
Solids (%)	32.8	82.6	79.5	82.3	76.5	80.6	82.7
Acenaphthene	<12	<0.80	<2.0	<0.40	<0.43	<0.41	<0.40
Acenaphthylene	<12	<0.80	<2.0	<0.40	<0.43	<0.41	<0.40
Antracene	<12	<0.80	<2.0	<0.40	<0.43	<0.41	<0.40
Benzo(a)anthracene	<12	<0.80	<2.0	<0.40	<0.43	<0.41	<0.40
Benzo(b)fluoranthene	<12	<0.80	<2.0	<0.40	<0.43	<0.41	<0.40
Benzo(k)fluoranthene	<12	<0.80	<2.0	<0.40	<0.43	<0.41	<0.40
Benzo(g,h,i)perylene	<12	<0.80	<2.0	<0.40	<0.43	<0.41	<0.40
Benzo(a)pyrene	<12	<0.80	<2.0	<0.40	<0.43	<0.41	<0.40
Chrysene	<12	<0.80	<2.0	<0.40	<0.43	<0.41	<0.40
Dibenzo(a,h)anthracene	<12	<0.80	<2.0	<0.40	<0.43	<0.41	<0.40
Fluoranthene	<12	<0.80	<2.0	<0.40	<0.43	<0.41	<0.40
Fluorene	<12	<0.80	<2.0	<0.40	<0.43	<0.41	<0.40
Indeno (1,2,3-cd)pyrene	<12	<0.80	<2.0	<0.40	<0.43	<0.41	<0.40
2-Methylnaphthalene	<12	<0.80	<2.0	<0.40	<0.43	<0.41	<0.40
Naphthalene	<12	<0.80	<2.0	<0.40	<0.43	<0.41	<0.40
Phenanthrene	<12	<0.80	<2.0	<0.40	<0.43	<0.41	<0.40
Pyrene	<12	<0.80	<2.0	<0.40	<0.43	<0.41	<0.40
TOTAL PAHs	0	0	0	0	0	0	0

All units reported in mg/kg

TABLE 4

## TEST AMERICA - SEDIMENT SAMPLE RESULTS

Parameter (VOCs-8260)	SD-39	SD-39	SD-39	SD-39	SD-40	SD-40	SD-40	
	Depth	0-2	2-4	4-6	6-8	2-4	4-6	6-8
Benzene	<76	<30	<31	<30	<33	<31	<34	
Bromobenzene	<76	<30	<31	<30	<33	<31	<34	
Bromochloromethane	<76	<30	<31	<30	<33	<31	<34	
Bromodichloromethane	<76	<30	<31	<30	<33	<31	<34	
Bromoform	<76	<30	<31	<30	<33	<31	<34	
Bromomethane	<305	<121	<126	<122	<131	<124	<133	
n-Butylbenzene	<76	<30	<31	<30	<33	<31	<34	
sec-Butylbenzene	<76	<30	<31	<30	<33	<31	<34	
tert-Butylbenzene	<76	<30	<31	<30	<33	<31	<34	
Carbon Tetrachloride	<76	<30	<31	<30	<33	<31	<34	
Chlorobenzene	<76	<30	<31	<30	<33	<31	<34	
Chlorodibromomethane	<76	<30	<31	<30	<33	<31	<34	
Chloroethane	<110	<42	<44	<43	<46	<43	<46	
Chloroform	<76	<30	<31	<30	<33	<31	<34	
Chloromethane	<150	<61	<63	<61	<65	<62	<67	
2-Chlorotoluene	<76	<30	<31	<30	<33	<31	<34	
4-Chlorotoluene	<76	<30	<31	<30	<33	<31	<34	
1,2-Dibromo-3-Chloropropane	<150	<61	<63	<61	<65	<62	<67	
1,2-Dibromomethane (EDB)	<76	<30	<31	<30	<33	<31	<34	
Dibromomethane	<76	<30	<31	<30	<33	<31	<34	
1,2-Dichlorobenzene	<76	<30	<31	<30	<33	<31	<34	
1,3-Dichlorobenzene	<76	<30	<31	<30	<33	<31	<34	
1,4-Dichlorobenzene	<76	<30	<31	<30	<33	<31	<34	
Dichlorodifluoromethane	<76	<30	<31	<30	<33	<31	<34	
1,1-Dichloroethane	<76	<30	<31	<30	<33	<31	<34	
1,2-Dichloroethane	<76	<30	<31	<30	<33	<31	<34	
1,1-Dichloroethene	<76	<30	<31	<30	<33	<31	<34	
cis-1,2-Dichloroethene	<76	<30	<31	<30	<33	<31	<34	
trans-1,2-Dichloroethene	<76	<30	<31	<30	<33	<31	<34	
1,2-Dichloropropane	<76	<30	<31	<30	<33	<31	<34	
1,3-Dichloropropane	<76	<30	<31	<30	<33	<31	<34	
2,2-Dichloropropane	<76	<30	<31	<30	<33	<31	<34	
1,1-Dichloropropene	<76	<30	<31	<30	<33	<31	<34	
cis-1,3-Dichloropropene	<76	<30	<31	<30	<33	<31	<34	
trans-1,3-Dichloropropene	<76	<30	<31	<30	<33	<31	<34	
Di-isopropyl ether	<76	<30	<31	<30	<33	<31	<34	
Ethylbenzene	<76	<30	<31	<30	<33	<31	<34	
Hexachlorobutadiene	<110	<42	<44	<43	<46	<43	<46	
Isopropylbenzene	<76	<30	<31	<30	<33	<31	<34	
p-Isopropyltoluene	140	<30	<31	<30	<33	<31	<34	
Methylene Chloride	<150	80 L	65 L	<61	93 L	<62	<67	
Methyl-t-butyl-ether	<76	<30	<31	<30	<33	<31	<34	
Naphthalene	<76	<30	<31	<30	34	60	<34	
n-Propylbenzene	<76	<30	<31	<30	<33	<31	<34	
Styrene	<76	<30	<31	<30	<33	<31	<34	
1,1,1,2-Tetrachloroethane	<76	<30	<31	<30	<33	<31	<34	
1,1,2,2-Tetrachloroethane	<76	<30	<31	<30	<33	<31	<34	
Tetrachloroethane	<76	<30	<31	<30	<33	<31	<34	
Toluene	610	<30	<31	<30	37	<31	<34	
1,2,3-Trichlorobenzene	<76	<30	<31	<30	<33	<31	<34	
1,2,4-Trichlorobenzene	<76	<30	<31	<30	<33	<31	<34	
1,1,1-Trichloroethane	<76	<30	<31	<30	<33	<31	<34	
1,1,2-Trichloroethane	<76	<30	<31	<30	<33	<31	<34	
Trichloroethene	<76	<30	<31	<30	<33	<31	<34	
Trichlorofluoromethane	<76	<30	<31	<30	<33	<31	<34	
1,2,3-Trichloropropane	<76	<30	<31	<30	<33	<31	<34	
1,2,4-Trimethylbenzene	<76	<30	<31	<30	<33	<31	<34	
1,3,5-Trimethylbenzene	<76	<30	<31	<30	<33	<31	<34	
Vinyl Chloride	<76	<30	<31	<30	<33	<31	<34	
Xylene, total	<110	<42	<44	<43	<46	<43	<46	
TOTAL VOCs + Naphthalene		750	0	0	0	71	60	0

All units report in µg/kg

40 of 60

**TABLE 4  
TEST AMERICA - SEDIMENT SAMPLE RESULTS**

Parameter (SVOCs-8270)	SD-41	SD-41	SD-41	SD-42	SD-42	SD-42	SD-42
Depth	6-7	7-8	8-10	0-2	2-4	4-6	6-8
Solids (%)	74.4	83.5	87.3	32.1	38.6	77.0	79.6
Acenaphthene	94	<0.40	<0.38	<20	1.0	<0.43	<0.41
Acenaphthylene	13	<0.40	<0.38	<20	0.93	<0.43	<0.41
Antracene	46	<0.40	<0.38	<20	<0.85	<0.43	<0.41
Benzo(a)anthracene	24	<0.40	<0.38	25	0.91	<0.43	<0.41
Benzo(b)fluoranthene	9.0	<0.40	<0.38	<20	<0.85	<0.43	<0.41
Benzo(k)fluoranthene	12	<0.40	<0.38	<20	<0.85	<0.43	<0.41
Benzo(g,h,i)perylene	8.9	<0.40	<0.38	<20	<0.85	<0.43	<0.41
Benzo(a)pyrene	19	<0.40	<0.38	26	0.88	<0.43	<0.41
Chrysene	22	<0.40	<0.38	25	<0.85	<0.43	<0.41
Dibenzo(a,h)anthracene	<4.2	<0.40	<0.38	<20	<0.85	<0.43	<0.41
Fluoranthene	55	<0.40	<0.38	37	1.9	<0.43	<0.41
Fluorene	48	<0.40	<0.38	<20	<0.85	<0.43	<0.41
Indeno (1,2,3-cd)pyrene	8.1	<0.40	<0.38	<20	<0.85	<0.43	<0.41
2-Methylnaphthalene	110	<0.40	<0.38	<20	1.7	<0.43	<0.41
Naphthalene	110	<0.40	<0.38	27	4.4	<0.43	<0.41
Phenanthrene	91	1.0	<0.38	31	2.5	<0.43	<0.41
Pyrene	62	0.42	<0.38	50	2.8	<0.43	<0.41
TOTAL PAHs	484.1	1.42	0	145	13.3	0	0

All units reported in mg/kg

**TABLE 4**  
**TEST AMERICA - SEDIMENT SAMPLE RESULTS**

Parameter (VOCs-8260)	SD-41	SD-41	SD-41	SD-42	SD-42	SD-42	SD-42
	Depth	6-7	7-8	8-10	0-2	2-4	4-6
Benzene	<6,720	<30	<29	<78	<65	<32	<31
Bromobenzene	<6,720	<30	<29	<78	<65	<32	<31
Bromochloromethane	<6,720	<30	<29	<78	<65	<32	<31
Bromodichloromethane	<6,720	<30	<29	<78	<65	<32	<31
Bromoform	<6,720	<30	<29	<78	<65	<32	<31
Bromomethane	<29,900	<120	<115	<312	<259	<130	<126
n-Butylbenzene	<6,720	<30	<29	<78	<65	<32	<31
sec-Butylbenzene	<6,720	<30	<29	<78	<65	<32	<31
tert-Butylbenzene	<6,720	<30	<29	<78	<65	<32	<31
Carbon Tetrachloride	<6,720	<30	<29	<78	<65	<32	<31
Chlorobenzene	<6,720	<30	<29	<78	<65	<32	<31
Chlorodibromomethane	<6,720	<30	<29	<78	<65	<32	<31
Chloroethane	<9,410	<42	<40	<110	<91	<45	<44
Chloroform	<6,720	<30	<29	<78	<65	<32	<31
Chloromethane	<13,400	<60	<57	<160	<130	<65	<63
2-Chlorotolunene	<6,720	<30	<29	<78	<65	<32	<31
4-Chlorotolunene	<6,720	<30	<29	<78	<65	<32	<31
1,2-Dibromo-3-Chloropropane	<13,400	<60	<57	<160	<130	<65	<63
1,2-Dibromomethane (EDB)	<6,720	<30	<29	<78	<65	<32	<31
Dibromomethane	<6,720	<30	<29	<78	<65	<32	<31
1,2-Dichlorobenzene	<6,720	<30	<29	<78	<65	<32	<31
1,3-Dichlorobenzene	<6,720	<30	<29	<78	<65	<32	<31
1,4-Dichlorobenzene	<6,720	<30	<29	<78	<65	<32	<31
Dichlorodifluoromethane	<6,720	<30	<29	<78	<65	<32	<31
1,1-Dichloroethane	<6,720	<30	<29	<78	<65	<32	<31
1,2-Dichloroethane	<6,720	<30	<29	<78	<65	<32	<31
1,1-Dichloroethene	<6,720	<30	<29	<78	<65	<32	<31
cis-1,2-Dichloroethene	<6,720	<30	<29	<78	<65	<32	<31
trans-1,2-Dichloroethene	<6,720	<30	<29	<78	<65	<32	<31
1,2-Dichloropropane	<6,720	<30	<29	<78	<65	<32	<31
1,3-Dichloropropane	<6,720	<30	<29	<78	<65	<32	<31
2,2-Dichloropropane	<6,720	<30	<29	<78	<65	<32	<31
1,1-Dichloropropene	<6,720	<30	<29	<78	<65	<32	<31
cis-1,3-Dichloropropene	<6,720	<30	<29	<78	<65	<32	<31
trans-1,3-Dichloropropene	<6,720	<30	<29	<78	<65	<32	<31
Di-isopropyl ether	<6,720	<30	<29	<78	<65	<32	<31
Ethylbenzene	<6,720	<30	<29	<78	<65	<32	<31
Hexachlorobutadiene	<9,410	<42	<40	<110	<91	<45	<44
Isopropylbenzene	<6,720	<30	<29	<78	<65	<32	<31
p-Isopropyltoluene	<6,720	<30	<29		779	170	<31
Methylene Chloride	<13,400	90 L	85 L	<160		130 L	<63
Methyl-t-butyl-ether	<6,720	<30	<29	<78	<65	<32	<31
Naphthalene	282,000	467	<29		374	250	<31
n-Propylbenzene	<6,720	<30	<29	<78	<65	<32	<31
Styrene	<6,720	<30	<29	<78	<65	<32	<31
1,1,1,2-Tetrachloroethane	<6,720	<30	<29	<78	<65	<32	<31
1,1,2,2-Tetrachloroethane	<6,720	<30	<29	<78	<65	<32	<31
Tetrachloroethane	<6,720	<30	<29	<78	<65	<32	<31
Toluene	<6,720	<30	<29		170	363	<31
1,2,3-Trichlorobenzene	<6,720	<30	<29	<78	<65	<32	<31
1,2,4-Trichlorobenzene	<6,720	<30	<29	<78	<65	<32	<31
1,1,1-Trichloroethane	<6,720	<30	<29	<78	<65	<32	<31
1,1,2-Trichloroethane	<6,720	<30	<29	<78	<65	<32	<31
Trichloroethene	<6,720	<30	<29	<78	<65	<32	<31
Trichlorofluoromethane	<6,720	<30	<29	<78	<65	<32	<31
1,2,3-Trichloropropane	<6,720	<30	<29	<78	<65	<32	<31
1,2,4-Trimethylbenzene	16,100	<30	<29		81	<65	<31
1,3,5-Trimethylbenzene	<6,720	<30	<29	<78	<65	<32	<31
Vinyl Chloride	<6,720	<30	<29	<78	<65	<32	<31
Xylene, total	<9,410	<42	<40	<110	<91	<45	<44
<b>TOTAL VOCs + Naphthalene</b>	<b>298,100</b>	<b>467</b>	<b>0</b>	<b>1,404</b>	<b>783</b>	<b>0</b>	<b>0</b>

All units report in µg/kg

**TABLE 4  
TEST AMERICA - SEDIMENT SAMPLE RESULTS**

Parameter (SVOCs-8270) Depth	SD-43	SD-43	SD-43	SD-43	SD-43	SD-44	SD-44	SD-44
	0-2	2-4	4-6	6-8	8-10	0-2	2-4	4-6
Solids (%)	27.8	79.2	78.3	81.0	80.5	61.8	78.0	83.7
Acenaphthene	86	8.6	5.1	<0.41	<0.41	324	295	0.39
Acenaphthylene	<29	<0.42	<0.42	<0.41	<0.41	21	22	<0.39
Anthracene	43	2.9	1.7	<0.41	<0.41	130	110	<0.39
Benzo(a)anthracene	43	1.4	0.80	<0.41	<0.41	55	55	<0.39
Benzo(b)fluoranthene	<29	0.56	0.51	<0.41	<0.41	23	24	<0.39
Benzo(k)fluoranthene	<29	0.78	0.56	<0.41	<0.41	31	29	<0.39
Benzo(g,h,i)perylene	<29	0.63	0.47	<0.41	<0.41	24	24	<0.39
Benzo(a)pyrene	40	1.3	<0.42	<0.41	<0.41	52	53	<0.39
Chrysene	40	1.3	0.97	<0.41	<0.41	55	53	<0.39
Dibenzo(a,h)anthracene	<29	<0.42	<0.42	<0.41	<0.41	<21	<12	<0.39
Fluoranthene	90	3.4	2.39	<0.41	<0.41	140	130	<0.39
Fluorene	40	4.5	2.57	<0.41	<0.41	162	154	<0.39
Indeno (1,2,3-cd)pyrene	<29	0.49	<0.42	<0.41	<0.41	18	19	<0.39
2-Methylnaphthalene	47	14	6.5	<0.41	<0.41	485	615	0.44
Naphthalene	36	18	7.8	<0.41	<0.41	1,200	1,130	0.39
Phenanthrene	150	9.7	6.8	<0.41	<0.41	405	436	0.70
Pyrene	130	5.3	3.7	<0.41	<0.41	210	179	<0.39
TOTAL PAHs	493	55.39	29.76	0	0	2620	2663	1.53

All units reported in mg/kg

TABLE 4

## TEST AMERICA - SEDIMENT SAMPLE RESULTS

Parameter (VOCs-8260)	SD-43			SD-44			SD-44		
	Depth	0-2	2-4	4-6	6-8	8-10	0-2	2-4	4-6
Benzene	<90	<6,310	38	<31	<31	5,340	<6,410	93	
Bromobenzene	<90	<6,310	<32	<31	<31	<4,050	<6,410	<30	
Bromochloromethane	<90	<6,310	<32	<31	<31	<4,050	<6,410	<30	
Bromodichloromethane	<90	<6,310	<32	<31	<31	<4,050	<6,410	<30	
Bromoform	<90	<6,310	<32	<31	<31	<4,050	<6,410	<30	
Bromomethane	<360	<25,300	<128	<123	<124	<16,200	<25,600	<119	
n-Butylbenzene	<90	<6,310	<32	<31	<31	<4,050	<6,410	<30	
sec-Butylbenzene	<90	<6,310	<32	<31	<31	<4,050	<6,410	<30	
tert-Butylbenzene	<90	<6,310	<32	<31	<31	<4,050	<6,410	<30	
Carbon Tetrachloride	<90	<6,310	<32	<31	<31	<4,050	<6,410	<30	
Chlorobenzene	<90	<6,310	<32	<31	<31	<4,050	<6,410	<30	
Chlorodibromomethane	<90	<6,310	<32	<31	<31	<4,050	<6,410	<30	
Chloroethane	<130	<8,840	<45	<43	<43	<5,660	<8,970	<42	
Chloroform	<90	<6,310	<32	<31	<31	<4,050	<6,410	<30	
Chloromethane	<180	<12,600	<64	<62	<62	<8,090	<12,800	<60	
2-Chlorotoluene	<90	<6,310	<32	<31	<31	<4,050	<6,410	<30	
4-Chlorotoluene	<90	<6,310	<32	<31	<31	<4,050	<6,410	<30	
1,2-Dibromo-3-Chloropropane	<180	<12,600	<64	<62	<62	<8,090	<12,800	<60	
1,2-Dibromomethane (EDB)	<90	<6,310	<32	<31	<31	<4,050	<6,410	<30	
Dibromomethane	<90	<6,310	<32	<31	<31	<4,050	<6,410	<30	
1,2-Dichlorobenzene	<90	<6,310	<32	<31	<31	<4,050	<6,410	<30	
1,3-Dichlorobenzene	<90	<6,310	<32	<31	<31	<4,050	<6,410	<30	
1,4-Dichlorobenzene	<90	<6,310	<32	<31	<31	<4,050	<6,410	<30	
Dichlorodifluoromethane	<90	<6,310	<32	<31	<31	<4,050	<6,410	<30	
1,1-Dichloroethane	<90	<6,310	<32	<31	<31	<4,050	<6,410	<30	
1,2-Dichloroethane	<90	<6,310	<32	<31	<31	<4,050	<6,410	<30	
1,1-Dichloroethene	<90	<6,310	<32	<31	<31	<4,050	<6,410	<30	
cis-1,2-Dichloroethene	<90	<6,310	<32	<31	<31	<4,050	<6,410	<30	
trans-1,2-Dichloroethene	<90	<6,310	<32	<31	<31	<4,050	<6,410	<30	
1,2-Dichloropropane	<90	<6,310	<32	<31	<31	<4,050	<6,410	<30	
1,3-Dichloropropane	<90	<6,310	<32	<31	<31	<4,050	<6,410	<30	
2,2-Dichloropropane	<90	<6,310	<32	<31	<31	<4,050	<6,410	<30	
1,1-Dichloropropene	<90	<6,310	<32	<31	<31	<4,050	<6,410	<30	
cis-1,3-Dichloropropene	<90	<6,310	<32	<31	<31	<4,050	<6,410	<30	
trans-1,3-Dichloropropene	<90	<6,310	<32	<31	<31	<4,050	<6,410	<30	
Di-isopropyl ether	<90	<6,310	<32	<31	<31	<4,050	<6,410	<30	
Ethylbenzene	<90	29,000	2,680	52	<31	25,900	30,800	98	
Hexachlorobutadiene	<130	<8,480	<45	<43	<43	<5,660	<8,970	<42	
Isopropylbenzene	<90	<6,310	332	<31	<31	<4,050	<6,410	<30	
p-Isopropyltoluene	612	<6,310	409	<31	<31	<4,050	<6,410	<30	
Methylene Chloride	<180	<12,600	<64	<62	<62	<8,090	<12,800	110 L	
Methyl-t-butyl-ether	<90	<6,310	<32	<31	<31	<4,050	<6,410	<30	
Naphthalene	4,320	694,000	65,100	494	<31	356,000	449,000	896	
n-Propylbenzene	<90	<6,310	110	<31	<31	<4,050	<6,410	<30	
Styrene	<90	<6,310	<32	<31	<31	<4,050	<6,410	<30	
1,1,1,2-Tetrachloroethane	<90	<6,310	<32	<31	<31	<4,050	<6,410	<30	
1,1,1,2,2-Tetrachloroethane	<90	<6,310	<32	<31	<31	<4,050	<6,410	<30	
Tetrachloroethane	<90	<6,310	<32	<31	<31	<4,050	<6,410	<30	
Toluene	<90	<6,310	56	<31	<31	7,440	6,790	<30	
1,2,3-Trichlorobenzene	<90	<6,310	<32	<31	<31	<4,050	<6,410	<30	
1,2,4-Trichlorobenzene	<90	<6,310	<32	<31	<31	<4,050	<6,410	<30	
1,1,1-Trichloroethane	<90	<6,310	<32	<31	<31	<4,050	<6,410	<30	
1,1,2-Trichloroethane	<90	<6,310	<32	<31	<31	<4,050	<6,410	<30	
Trichloroethene	<90	<6,310	<32	<31	<31	<4,050	<6,410	<30	
Trichlorofluoromethane	<90	<6,310	<32	<31	<31	<4,050	<6,410	<30	
1,2,3-Trichloropropane	<90	<6,310	<32	<31	<31	<4,050	<6,410	<30	
1,2,4-Trimethylbenzene	755	20,200	2,040	<31	<31	10,000	11,500	<30	
1,3,5-Trimethylbenzene	270	<6,310	575	<31	<31	<4,050	<6,410	<30	
Vinyl Chloride	<90	<6,310	<32	<31	<31	<4,050	<6,410	<30	
Xylene, total	160	27,800	2,550	<43	<43	21,000	15,400	72	
TOTAL VOCs + Naphthalene	6,117	771,000	73,890	546	0	425,680	513,490	1,159	

All units report in µg/kg

**TABLE 4  
TEST AMERICA - SEDIMENT SAMPLE RESULTS**

Parameter (SVOCs-8270)	SD-44	SD-45	SD-45	SD-45	SD-45	SD-45	SD-46	SD-46	SD-46
	Depth 6-8	0-2	2-3	3-4	4-6	6-8	0-2	2-4	4-6
Solids (%)	84.0	78.4	82.3	81.0	82.4	76.7	43.3	79.4	81.9
Acenaphthene	<0.39	74	70	<0.41	0.56	<0.43	1,020	38	<0.40
Acenaphthylene	<0.39	7.5	7.3	<0.41	<0.40	<0.43	74	4.3	<0.40
Antracene	<0.39	34	33	<0.41	<0.40	<0.43	300	16	<0.40
Benzo(a)anthracene	<0.39	13	13	<0.41	<0.40	<0.43	140	6.8	<0.40
Benzo(b)fluoranthene	<0.39	4.7	5.2	<0.41	<0.40	<0.43	46	2.5	<0.40
Benzo(k)fluoranthene	<0.39	6.1	6.6	<0.41	<0.40	<0.43	60	3.3	<0.40
Benzo(g,h,i)perylene	<0.39	4.5	5.0	<0.41	<0.40	<0.43	37	2.1	<0.40
Benzo(a)pyrene	<0.39	10	10	<0.41	<0.40	<0.43	92	4.9	<0.40
Chrysene	<0.39	12	12	<0.41	<0.40	<0.43	120	6.2	<0.40
Dibenzo(a,h)anthracene	<0.39	<4.0	1.2	<0.41	<0.40	<0.43	<14	<0.42	<0.40
Fluoranthene	<0.39	31	29	<0.41	<0.40	<0.43	277	14	<0.40
Fluorene	<0.39	32	28	<0.41	<0.40	<0.43	323	16	<0.40
Indeno (1,2,3-cd)pyrene	<0.39	4.1	4.9	<0.41	<0.40	<0.43	39	2.3	<0.40
2-Methylnaphthalene	<0.39	191	158	<0.41	0.73	<0.43	2,120	78	<0.40
Naphthalene	<0.39	268	194	<0.41	0.75	<0.43	2,540	92	<0.40
Phenanthrene	<0.39	91	86	0.58	0.84	<0.43	1,200	44	0.76
Pyrene	<0.39	41	40	<0.41	<0.40	<0.43	439	6.4	<0.40
TOTAL PAHs	0	658.1	539.9	0.58	2.32	0	6938	252.7	0.76

All units reported in mg/kg



TABLE 4

## TEST AMERICA - SEDIMENT SAMPLE RESULTS

Parameter (VOCs-8260)	SD-44	SD-45	SD-45	SD-45	SD-45	SD-45	SD-46	SD-46	SD-46
	Depth 6-8	0-2	2-3	3-4	4-6	6-8	0-2	2-4	4-6
Benzene	48	<6,380	1,180	346	267	110	<57,700	<6,300	195
Bromobenzene	<30	<6,380	<30	<31	<30	<33	<57,700	<6,300	<31
Bromochloromethane	<30	<6,380	<30	<31	<30	<33	<57,700	<6,300	<31
Bromodichloromethane	<30	<6,380	<30	<31	<30	<33	<57,700	<6,300	<31
Bromoform	<30	<6,380	<30	<31	<30	<33	<57,700	<6,300	<31
Bromomethane	<119	<25,500	<122	<123	<121	<130	<231,000	<25,200	<122
n-Butylbenzene	<30	<6,380	<30	<31	<30	<33	<57,700	<6,300	<31
sec-Butylbenzene	<30	<6,380	<30	<31	<30	<33	<57,700	<6,300	<31
tert-Butylbenzene	<30	<6,380	<30	<31	<30	<33	<57,700	<6,300	<31
Carbon Tetrachloride	<30	<6,380	<30	<31	<30	<33	<57,700	<6,300	<31
Chlorobenzene	<30	<6,380	<30	<31	<30	<33	<57,700	<6,300	<31
Chlorodibromomethane	<30	<6,380	<30	<31	<30	<33	<57,700	<6,300	<31
Chloroethane	<42	<8,930	<43	<43	<42	<46	<80,800	<8,280	<43
Chloroform	<30	<6,380	<30	<31	<30	<33	<57,700	<6,300	<31
Chloromethane	<60	<12,800	<61	<62	<61	<65	<115,000	<12,600	<61
2-Chlorotoluene	<30	<6,380	<30	<31	<30	<33	<57,700	<6,300	<31
4-Chlorotoluene	<30	<6,380	<30	<31	<30	<33	<57,700	<6,300	<31
1,2-Dibromo-3-Chloropropane	<60	<12,800	<61	<62	<61	<65	<115,000	<12,600	<61
1,2-Dibromomethane (EDB)	<30	<6,380	<30	<31	<30	<33	<57,700	<6,300	<31
Dibromomethane	<30	<6,380	<30	<31	<30	<33	<57,700	<6,300	<31
1,2-Dichlorobenzene	<30	<6,380	<30	<31	<30	<33	<57,700	<6,300	<31
1,3-Dichlorobenzene	<30	<6,380	<30	<31	<30	<33	<57,700	<6,300	<31
1,4-Dichlorobenzene	<30	<6,380	<30	<31	<30	<33	<57,700	<6,300	<31
Dichlorodifluoromethane	<30	<6,380	<30	<31	<30	<33	<57,700	<6,300	<31
1,1-Dichloroethane	<30	<6,380	<30	<31	<30	<33	<57,700	<6,300	<31
1,2-Dichloroethane	<30	<6,380	<30	<31	<30	<33	<57,700	<6,300	<31
1,1-Dichloroethene	<30	<6,380	<30	<31	<30	<33	<57,700	<6,300	<31
cis-1,2-Dichloroethene	<30	<6,380	<30	<31	<30	<33	<57,700	<6,300	<31
trans-1,2-Dichloroethene	<30	<6,380	<30	<31	<30	<33	<57,700	<6,300	<31
1,2-Dichloropropane	<30	<6,380	<30	<31	<30	<33	<57,700	<6,300	<31
1,3-Dichloropropane	<30	<6,380	<30	<31	<30	<33	<57,700	<6,300	<31
2,2-Dichloropropane	<30	<6,380	<30	<31	<30	<33	<57,700	<6,300	<31
1,1-Dichloropropene	<30	<6,380	<30	<31	<30	<33	<57,700	<6,300	<31
cis-1,3-Dichloropropene	<30	<6,380	<30	<31	<30	<33	<57,700	<6,300	<31
trans-1,3-Dichloropropene	<30	<6,380	<30	<31	<30	<33	<57,700	<6,300	<31
Di-isopropyl ether	<30	<6,380	<30	<31	<30	<33	<57,700	<6,300	<31
Ethylbenzene	100	31,900	5,350	222	218	42	<57,700	16,400	110
Hexachlorobutadiene	<42	<8,930	<43	<43	<42	<46	<80,800	<8,280	<43
Isopropylbenzene	<30	<6,380	547	<31	<30	<33	<57,700	<6,300	<31
p-Isopropyltoluene	<30	<6,380	437	<31	<30	<33	<57,700	<6,300	<31
Methylene Chloride	71 L	<12,800	<61	64 L	<61	<33	462,000 L	15,100 L	65 L
Methyl-t-butyl-ether	<30	<6,380	<30	<31	<30	<33	<57,700	<6,300	<31
Naphthalene	1,430	497,000	120,000	2,100	1,940	782	993,000	227,000	1,050
n-Propylbenzene	<30	<6,380	207	<31	<30	<33	<57,700	<6,300	<31
Styrene	<30	<6,380	<30	<31	<30	<33	<57,700	<6,300	<31
1,1,1,2-Tetrachloroethane	<30	<6,380	<30	<31	<30	<33	<57,700	<6,300	<31
1,1,1,2,2-Tetrachloroethane	<30	<6,380	<30	<31	<30	<33	<57,700	<6,300	<31
Tetrachloroethane	<30	<6,380	<30	<31	<30	<33	<57,700	<6,300	<31
Toluene	40	14,000	2,310	173	58	<33	<57,700	7,430	93
1,2,3-Trichlorobenzene	<30	<6,380	<30	<31	<30	<33	<57,700	<6,300	<31
1,2,4-Trichlorobenzene	<30	<6,380	<30	<31	<30	<33	<57,700	<6,300	<31
1,1,1-Trichloroethane	<30	<6,380	<30	<31	<30	<33	<57,700	<6,300	<31
1,1,2-Trichloroethane	<30	<6,380	<30	<31	<30	<33	<57,700	<6,300	<31
Trichloroethene	<30	<6,380	<30	<31	<30	<33	<57,700	<6,300	<31
Trichlorofluoromethane	<30	<6,380	<30	<31	<30	<33	<57,700	<6,300	<31
1,2,3-Trichloropropane	<30	<6,380	<30	<31	<30	<33	<57,700	<6,300	<31
1,2,4-Trimethylbenzene	44	17,900	2,920	64	61	<33	<57,700	11,300	40
1,3,5-Trimethylbenzene	<30	<6,380	948	<31	<30	<33	<57,700	<6,300	<31
Vinyl Chloride	<30	<6,380	<30	<31	<30	<33	<57,700	<6,300	<31
Xylene, total	79	29,300	5,350	222	170	<46	<80,800	20,200	134
TOTAL VOCs + Naphthalene	1,741	590,100	139,249	3,127	2,714	934	993,000	282,330	1,622

All units report in µg/kg

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**TABLE 4  
TEST AMERICA - SEDIMENT SAMPLE RESULTS**

Parameter (SVOCs-8270)	SD-46	SD-46	SD-47	SD-47	SD-48	SD-48	SD-48	SD-48
Depth	6-8	8-10	0-2	6-8	0-2	2-4	4-6	8-10
Solids (%)	81.6	83.7	57.1	82.5	26.1	21.0	81.3	80.6
Acenaphthene	1.3	<0.39	140	<0.40	<6.3	<16	11	<0.41
Acenaphthylene	<0.40	<0.39	11	<0.40	<6.3	<16	<2.0	<0.41
Anthracene	0.6	<0.39	42	<0.40	<6.3	<16	5.3	<0.41
Benzo(a)anthracene	<0.40	<0.39	19	<0.40	<6.3	<16	2.2	<0.41
Benzo(b)fluoranthene	<0.40	<0.39	6.7	<0.40	<6.3	<16	<2.0	<0.41
Benzo(k)fluoranthene	<0.40	<0.39	8.9	<0.40	<6.3	<16	<2.0	<0.41
Benzo(g,h,l)perylene	<0.40	<0.39	5.3	<0.40	<6.3	<16	<2.0	<0.41
Benzo(a)pyrene	<0.40	<0.39	13	<0.40	<6.3	<16	<2.0	<0.41
Chrysene	<0.40	<0.39	17	<0.40	<6.3	<16	<2.0	<0.41
Dibenzo(a,h)anthracene	<0.40	<0.39	<2.8	<0.40	<6.3	<16	<2.0	<0.41
Fluoranthene	0.58	<0.39	39	<0.40	<6.3	<16	4.9	<0.41
Fluorene	0.54	<0.39	40	<0.40	<6.3	<16	7.1	<0.41
Indeno (1,2,3-cd)pyrene	<0.40	<0.39	5.6	<0.40	<6.3	<16	<2.0	<0.41
2-Methylnaphthalene	2.0	<0.39	315	<0.40	<6.3	20	18	<0.41
Naphthalene	1.5	<0.39	403	0.95	8.4	40	20	<0.41
Phenanthrene	1.8	<0.39	170	<0.40	<6.3	<16	15	<0.41
Pyrene	0.72	<0.39	47	<0.40	<6.3	<16	7.0	<0.41
TOTAL PAHs	7.14	0	1019.6	0.95	8.4	60	72	0

All units reported in mg/kg

TABLE 4

Parameter (VOCs-8260)	TEST AMERICA - SEDIMENT SAMPLE RESULTS							
	SD-46	SD-46	SD-47	SD-47	SD-48	SD-48	SD-48	SD-48
Depth	6-8	8-10	0-2	6-8	0-2	2-4	4-6	8-10
Benzene	245	167	<21,000	170	<110	160	38	<31
Bromobenzene	<31	<30	<21,000	<30	<110	<120	<34	<31
Bromochloromethane	<31	<30	<21,000	<30	<110	<120	<34	<31
Bromodichloromethane	<31	<30	<21,000	<30	<110	<120	<34	<31
Bromoform	<31	<30	<21,000	<30	<110	<120	<34	<31
Bromomethane	<123	<119	<87,600	<121	<420	<476	<135	<124
n-Butylbenzene	<31	<30	<21,000	<30	<110	<120	<34	<31
sec-Butylbenzene	<31	<30	<21,000	<30	<110	<120	<34	<31
tert-Butylbenzene	<31	<30	<21,000	<30	<110	<120	<34	<31
Carbon Tetrachloride	<31	<30	<21,000	<30	<110	<120	<34	<31
Chlorobenzene	<31	<30	<21,000	<30	<110	<120	<34	<31
Chlorodibromomethane	<31	<30	<21,000	<30	<110	<120	<34	<31
Chloroethane	<43	<42	<31,500	<42	<140	<170	<47	<43
Chloroform	<31	<30	<21,000	<30	<110	<120	<34	<31
Chloromethane	<61	<60	<43,800	<61	<210	<240	<68	<62
2-Chlorotoluene	<31	<30	<21,000	<30	<110	<120	<34	<31
4-Chlorotoluene	<31	<30	<21,000	<30	<110	<120	<34	<31
1,2-Dibromo-3-Chloropropane	<61	<60	<43,800	<61	<210	<240	<68	<62
1,2-Dibromomethane (EDB)	<31	<30	<21,000	<30	<110	<120	<34	<31
Dibromomethane	<31	<30	<21,000	<30	<110	<120	<34	<31
1,2-Dichlorobenzene	<31	<30	<21,000	<30	<110	<120	<34	<31
1,3-Dichlorobenzene	<31	<30	<21,000	<30	<110	<120	<34	<31
1,4-Dichlorobenzene	<31	<30	<21,000	<30	<110	<120	<34	<31
Dichlorodifluoromethane	<31	<30	<21,000	<30	<110	<120	<34	<31
1,1-Dichloroethane	<31	<30	<21,000	<30	<110	<120	<34	<31
1,2-Dichloroethane	<31	<30	<21,000	<30	<110	<120	<34	<31
1,1-Dichloroethene	<31	<30	<21,000	<30	<110	<120	<34	<31
cis-1,2-Dichloroethene	<31	<30	<21,000	<30	<110	<120	<34	<31
trans-1,2-Dichloroethene	<31	<30	<21,000	<30	<110	<120	<34	<31
1,2-Dichloropropane	<31	<30	<21,000	<30	<110	<120	<34	<31
1,3-Dichloropropane	<31	<30	<21,000	<30	<110	<120	<34	<31
2,2-Dichloropropane	<31	<30	<21,000	<30	<110	<120	<34	<31
1,1-Dichloropropene	<31	<30	<21,000	<30	<110	<120	<34	<31
cis-1,3-Dichloropropene	<31	<30	<21,000	<30	<110	<120	<34	<31
trans-1,3-Dichloropropene	<31	<30	<21,000	<30	<110	<120	<34	<31
Di-isopropyl ether	<31	<30	<21,000	<30	<110	<120	<34	<31
Ethylbenzene	539	31	31,500	327	<110	440	221	62
Hexachlorobutadiene	<43	<42	<31,500	<42	<140	<170	<47	<43
Isopropylbenzene	59	<30	<21,000	<30	<110	<120	<34	<31
p-Isopropyltoluene	49	<30	<21,000	<30	110	11,900	36	<31
Methylene Chloride	69 L	92 L	49,000 L	64 L	<210	<120	110 L	86 L
Methyl-t-butyl-ether	<31	<30	<21,000	<30	<110	<120	<34	<31
Naphthalene	7,480	167	<21,000	2,910	460	7,620	5,290	385
n-Propylbenzene	<31	<30	<21,000	<30	<110	<120	<34	<31
Styrene	<31	<30	<21,000	<30	<110	<120	<34	<31
1,1,1,2-Tetrachloroethane	<31	<30	<21,000	<30	<110	<120	<34	<31
1,1,2,2-Tetrachloroethane	<31	<30	<21,000	<30	<110	<120	<34	<31
Tetrachloroethane	<31	<30	<21,000	<30	<110	<120	<34	<31
Toluene	245	65	<21,000	194	498	340	<34	<31
1,2,3-Trichlorobenzene	<31	<30	<21,000	<30	<110	<120	<34	<31
1,2,4-Trichlorobenzene	<31	<30	<21,000	<30	<110	<120	<34	<31
1,1,1-Trichloroethane	<31	<30	<21,000	<30	<110	<120	<34	<31
1,1,2-Trichloroethane	<31	<30	<21,000	<30	<110	<120	<34	<31
Trichloroethene	<31	<30	<21,000	<30	<110	<120	<34	<31
Trichlorofluoromethane	<31	<30	<21,000	<30	<110	<120	<34	<31
1,2,3-Trichloropropane	<31	<30	<21,000	<30	<110	<120	<34	<31
1,2,4-Trimethylbenzene	355	<30	<21,000	121	170	667	197	<31
1,3,5-Trimethylbenzene	100	<30	<21,000	46	<110	280	46	<31
Vinyl Chloride	<31	<30	<21,000	<30	<110	<120	<34	<31
Xylene, total	576	<42	35,000	352	<140	857	295	67
TOTAL VOCs + Naphthalene	9,648	430	66,500	4,120	1,238	22,264	6,123	514

All units report in µg/kg

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**TABLE 4  
TEST AMERICA - SEDIMENT SAMPLE RESULTS**

Parameter (SVOCs-8270)	SD-49	SD-49	SD-49	SD-49	SD-50	SD-50	SD-50
Depth	0-2	2-4	4-6	8-10	0-2	4-6	6-8
Solids (%)	29.2	20.4	81.9	81.7	17.9	82.3	84.6
Acenaphthene	<1.1	539	1.5	<0.40	<5.2	5.7	12
Acenaphthylene	<1.1	74	<0.40	<0.40	<5.2	0.56	<1.9
Antracene	<1.1	240	0.62	<0.40	<5.2	2.6	5.2
Benzo(a)anthracene	<1.1	120	<0.40	<0.40	<5.2	1.2	2.6
Benzo(b)fluoranthene	<1.1	54	<0.40	<0.40	<5.2	0.49	<1.9
Benzo(k)fluoranthene	<1.1	74	<0.40	<0.40	<5.2	0.66	<1.9
Benzo(g,h,i)perylene	<1.1	54	<0.40	<0.40	<5.2	<0.40	<1.9
Benzo(a)pyrene	<1.1	110	<0.40	<0.40	<5.2	0.97	2.0
Chrysene	<1.1	110	<0.40	<0.40	<5.2	1.1	2.4
Dibenzo(a,h)anthracene	<1.1	<17	<0.40	<0.40	<5.2	<0.40	<1.9
Fluoranthene	<1.1	270	0.73	<0.40	<5.2	3.0	6.1
Fluorene	<1.1	260	0.85	<0.40	<5.2	3.9	4.7
Indeno (1,2,3-cd)pyrene	<1.1	49	<0.40	<0.40	<5.2	<0.40	<1.9
2-Methylnaphthalene	<1.1	1,080	2.3	<0.40	<5.2	9.0	20
Naphthalene	1.1	1,370	2.4	<0.40	<5.2	8.7	18
Phenanthrene	<1.1	<17	2.2	<0.40	<5.2	7.7	17
Pyrene	<1.1	320	0.93	<0.40	<5.2	3.4	7.6
TOTAL PAHs	1.1	3349	9.41	0	0	35.7	73.4

All units reported in mg/kg

**TABLE 4**  
**TEST AMERICA - SEDIMENT SAMPLE RESULTS**

Parameter (VOCs-8260)	SD-49	SD-49	SD-49	SD-49	SD-50	SD-50	SD-50		
	Depth	0-2	2-4	4-6	8-10	0-2	4-6	6-8	
Benzene	<86	<12,300		44	<31	<140	<6,080	95	
Bromobenzene	<86	<12,300	<31		<31	<140	<6,080	<30	
Bromochloromethane	<86	<12,300	<31		<31	<140	<6,080	<30	
Bromodichloromethane	<86	<12,300	<31		<31	<140	<6,080	<30	
Bromoform	<86	<12,300	<31		<31	<140	<6,080	<30	
Bromomethane	<342	<49,000	<122		<122	<559	<24,300	<118	
n-Butylbenzene	<86	<12,300	<31		<31	<140	<6,080	<30	
sec-Butylbenzene	<86	<12,300	<31		<31	<140	<6,080	<30	
tert-Butylbenzene	<86	<12,300	<31		<31	<140	<6,080	<30	
Carbon Tetrachloride	<86	<12,300	<31		<31	<140	<6,080	<30	
Chlorobenzene	<86	<12,300	<31		<31	<140	<6,080	<30	
Chlorodibromomethane	<86	<12,300	<31		<31	<140	<6,080	<30	
Chloroethane	<120	<17,200	<43		<43	<200	<8,510	<41	
Chloroform	<86	<12,300	<31		<31	<140	<6,080	<30	
Chloromethane	<170	<24,500	<61		<61	<280	<12,200	<59	
2-Chlorotoluene	<86	<12,300	<31		<31	<140	<6,080	<30	
4-Chlorotoluene	<86	<12,300	<31		<31	<140	<6,080	<30	
1,2-Dibromo-3-Chloropropane	<170	<24,500	<61		<61	<280	<12,200	<59	
1,2-Dibromomethane (EDB)	<86	<12,300	<31		<31	<140	<6,080	<30	
Dibromomethane	<86	<12,300	<31		<31	<140	<6,080	<30	
1,2-Dichlorobenzene	<86	<12,300	<31		<31	<140	<6,080	<30	
1,3-Dichlorobenzene	<86	<12,300	<31		<31	<140	<6,080	<30	
1,4-Dichlorobenzene	<86	<12,300	<31		<31	<140	<6,080	<30	
Dichlorodifluoromethane	<86	<12,300	<31		<31	<140	<6,080	<30	
1,1-Dichloroethane	<86	<12,300	<31		<31	<140	<6,080	<30	
1,2-Dichloroethane	<86	<12,300	<31		<31	<140	<6,080	<30	
1,1-Dichloroethene	<86	<12,300	<31		<31	<140	<6,080	<30	
cis-1,2-Dichloroethene	<86	<12,300	<31		<31	<140	<6,080	<30	
trans-1,2-Dichloroethene	<86	<12,300	<31		<31	<140	<6,080	<30	
1,2-Dichloropropane	<86	<12,300	<31		<31	<140	<6,080	<30	
1,3-Dichloropropane	<86	<12,300	<31		<31	<140	<6,080	<30	
2,2-Dichloropropane	<86	<12,300	<31		<31	<140	<6,080	<30	
1,1-Dichloropropene	<86	<12,300	<31		<31	<140	<6,080	<30	
cis-1,3-Dichloropropene	<86	<12,300	<31		<31	<140	<6,080	<30	
trans-1,3-Dichloropropene	<86	<12,300	<31		<31	<140	<6,080	<30	
Di-isopropyl ether	<86	<12,300	<31		<31	<140	<6,080	<30	
Ethylbenzene	<86	14,700		305	<31	<140	<6,080	1,650	
Hexachlorobutadiene	<120	<17,200	<43		<43	<200	<8,510	<41	
Isopropylbenzene	<86	<12,300	<31		<31	<140	<6,080	355	
p-Isopropyltoluene		514	<12,300	<31	<31		310	<6,080	520
Methylene Chloride	<170	48,000 L	<61		66 L	500 L	12,200 L	<59	
Methyl-t-butyl-ether	<86	<12,300	<31		<31	<140	<6,080	<30	
Naphthalene	<86	314,000	3,660		110	726	113,000	40,200	
n-Propylbenzene	<86	<12,300	<31		<31	<140	<6,080	142	
Styrene	<86	<12,300	<31		<31	<140	<6,080	<30	
1,1,1,2-Tetrachloroethane	<86	<12,300	<31		<31	<140	<6,080	<30	
1,1,1,2,2-Tetrachloroethane	<86	<12,300	<31		<31	<140	<6,080	<30	
Tetrachloroethane	<86	<12,300	<31		<31	<140	<6,080	<30	
Toluene		445	<12,300	<31	<31	<140	<6,080	67	
1,2,3-Trichlorobenzene	<86	<12,300	<31		<31	<140	<6,080	<30	
1,2,4-Trichlorobenzene	<86	<12,300	<31		<31	<140	<6,080	<30	
1,1,1-Trichloroethane	<86	<12,300	<31		<31	<140	<6,080	<30	
1,1,2-Trichloroethane	<86	<12,300	<31		<31	<140	<6,080	<30	
Trichloroethene	<86	<12,300	<31		<31	<140	<6,080	<30	
Trichlorofluoromethane	<86	<12,300	<31		<31	<140	<6,080	<30	
1,2,3-Trichloropropane	<86	<12,300	<31		<31	<140	<6,080	<30	
1,2,4-Trimethylbenzene	<86	14,700	159		<31	180	<6,080	2,130	
1,3,5-Trimethylbenzene	<86	<12,300	35		<31	<140	<6,080	579	
Vinyl Chloride	<86	<12,300	<31		<31	<140	<6,080	<30	
Xylene, total	<120	<17,200	366	<43	<200	<200	<8,510	2,130	
TOTAL VOCs + Naphthalene		959	343,400	4,569	110	1,216	113,000	47,868	

All units report in µg/kg

**TABLE 4**  
**TEST AMERICA - SEDIMENT SAMPLE RESULTS**

Parameter (SVOCs-8270)	SD-51	SD-51	SD-51	SD-51	SD-52	SD-52	SD-52	SD-52
Depth	0-2	2-4	4-6	8-10	2-4	4-6	6-8	8-10
Solids (%)	45.9	43.1	50.6	81.7	24.4	78.2	81.7	81.6
Acenaphthene	<3.5	<0.77	<0.65	<0.40	160	5.9	<0.40	<0.40
Acenaphthylene	<3.5	<0.77	<0.65	<0.40	12	0.47	<0.40	<0.40
Antracene	<3.5	2.1	<0.65	<0.40	70	2.7	<0.40	<0.40
Benzo(a)anthracene	<3.5	<0.77	<0.65	<0.40	45	1.1	<0.40	<0.40
Benzo(b)fluoranthene	<3.5	<0.77	<0.65	<0.40	18	<0.42	<0.40	<0.40
Benzo(k)fluoranthene	<3.5	<0.77	<0.65	<0.40	23	0.56	<0.40	<0.40
Benzo(g,h,i)perylene	<3.5	<0.77	<0.65	<0.40	19	<0.42	<0.40	<0.40
Benzo(a)pyrene	<3.5	<0.77	<0.65	<0.40	39	0.97	<0.40	<0.40
Chrysene	<3.5	<0.77	<0.65	<0.40	45	1.1	<0.40	<0.40
Dibenzo(a,h)anthracene	<3.5	<0.77	<0.65	<0.40	4.5	<0.42	<0.40	<0.40
Fluoranthene	4.8	0.97	<0.65	<0.40	110	2.7	<0.40	<0.40
Fluorene	<3.5	<0.77	<0.65	<0.40	82	2.6	<0.40	<0.40
Indeno (1,2,3-cd)pyrene	<3.5	<0.77	<0.65	<0.40	18	<0.42	<0.40	<0.40
2-Methylnaphthalene	<3.5	<0.77	<0.65	<0.40	310	18	<0.40	<0.40
Naphthalene	5.7	1.0	2.4	<0.40	779	26	<0.40	<0.40
Phenanthrene	6.3	1.4	<0.65	<0.40	240	7.4	<0.40	<0.40
Pyrene	<3.5	0.86	<0.65	<0.40	160	3.7	<0.40	<0.40
TOTAL PAHs	16.8	4.23	2.4	0	1699	60.4	0	0

All units reported in mg/kg

TABLE 4

Parameter (VOCs-8260)	TEST AMERICA - SEDIMENT SAMPLE RESULTS							
	SD-51	SD-51	SD-51	SD-51	SD-52	SD-52	SD-52	SD-52
Depth	0-2	2-4	4-6	8-10	2-4	4-6	6-8	8-10
Benzene	<61	<58	<49	<31	<10,200	614	80	44
Bromobenzene	<61	<58	<49	<31	<10,200	<320	<31	<31
Bromochloromethane	<61	<58	<49	<31	<10,200	<320	<31	<31
Bromodichloromethane	<61	<58	<49	<31	<10,200	<320	<31	<31
Bromoform	<61	<58	<49	<31	<10,200	<320	<31	<31
Bromomethane	<240	<232	<198	<122	<41,000	<1,280	<122	<123
n-Butylbenzene	<61	<58	<49	<31	<10,200	<320	<31	<31
sec-Butylbenzene	<61	<58	<49	<31	<10,200	<320	<31	<31
tert-Butylbenzene	<61	<58	<49	<31	<10,200	<320	<31	<31
Carbon Tetrachloride	<61	<58	<49	<31	<10,200	<320	<31	<31
Chlorobenzene	<61	<58	<49	<31	<10,200	<320	<31	<31
Chlorodibromomethane	<61	<58	<49	<31	<10,200	<320	<31	<31
Chloroethane	<83	<81	<69	<43	<14,300	<448	<43	<43
Chloroform	<61	<58	<49	<31	<10,200	<320	<31	<31
Chloromethane	<120	<120	<99	<61	<20,500	<639	<61	<61
2-Chlorotoluene	<61	<58	<49	<31	<10,200	<320	<31	<31
4-Chlorotoluene	<61	<58	<49	<31	<10,200	<320	<31	<31
1,2-Dibromo-3-Chloropropane	<120	<120	<99	<61	<20,500	<639	<61	<61
1,2-Dibromomethane (EDB)	<61	<58	<49	<31	<10,200	<320	<31	<31
Dibromomethane	<61	<58	<49	<31	<10,200	<320	<31	<31
1,2-Dichlorobenzene	<61	<58	<49	<31	<10,200	<320	<31	<31
1,3-Dichlorobenzene	<61	<58	<49	<31	<10,200	<320	<31	<31
1,4-Dichlorobenzene	<61	<58	<49	<31	<10,200	<320	<31	<31
Dichlorodifluoromethane	<61	<58	<49	<31	<10,200	<320	<31	<31
1,1-Dichloroethane	<61	<58	<49	<31	<10,200	<320	<31	<31
1,2-Dichloroethane	<61	<58	<49	<31	<10,200	<320	<31	<31
1,1-Dichloroethene	<61	<58	<49	<31	<10,200	<320	<31	<31
cis-1,2-Dichloroethene	<61	<58	<49	<31	<10,200	<320	<31	<31
trans-1,2-Dichloroethene	<61	<58	<49	<31	<10,200	<320	<31	<31
1,2-Dichloropropane	<61	<58	<49	<31	<10,200	<320	<31	<31
1,3-Dichloropropane	<61	<58	<49	<31	<10,200	<320	<31	<31
2,2-Dichloropropane	<61	<58	<49	<31	<10,200	<320	<31	<31
1,1-Dichloropropene	<61	<58	<49	<31	<10,200	<320	<31	<31
cis-1,3-Dichloropropene	<61	<58	<49	<31	<10,200	<320	<31	<31
trans-1,3-Dichloropropene	<61	<58	<49	<31	<10,200	<320	<31	<31
Di-isopropyl ether	<61	<58	<49	<31	<10,200	<320	<31	<31
Ethylbenzene	<61	<58	110	<31	33,200	4,600	91	47
Hexachlorobutadiene	<83	<81	<69	<43	<14,300	<448	<43	<43
Isopropylbenzene	70	<58	91	<31	<10,200	384	<31	<31
p-Isopropyltoluene	893	180	356	<31	<10,200	435	<31	<31
Methylene Chloride	150 L	150 L	150 L	91 L	21,300 L	767 L	84 L	110 L
Methyl-t-butyl-ether	<61	<58	<49	<31	<10,200	<320	<31	<31
Naphthalene	632	<58	949	294	316,000	78,000	722	221
n-Propylbenzene	<61	<58	<49	<31	<10,200	<320	<31	<31
Styrene	<61	<58	<49	<31	<10,200	<320	<31	<31
1,1,1,2-Tetrachloroethane	<61	<58	<49	<31	<10,200	<320	<31	<31
1,1,2,2-Tetrachloroethane	<61	<58	<49	<31	<10,200	<320	<31	<31
Tetrachloroethane	<61	<58	<49	<31	<10,200	<320	<31	<31
Toluene	240	210	356	<31	<10,200	<320	<31	<31
1,2,3-Trichlorobenzene	<61	<58	<49	<31	<10,200	<320	<31	<31
1,2,4-Trichlorobenzene	<61	<58	<49	<31	14,800	512	<31	<31
1,1,1-Trichloroethane	<61	<58	<49	<31	<10,200	<320	<31	<31
1,1,2-Trichloroethane	<61	<58	<49	<31	<10,200	<320	<31	<31
Trichloroethene	<61	<58	<49	<31	<10,200	<320	<31	<31
Trichlorofluoromethane	<61	<58	<49	<31	<10,200	<320	<31	<31
1,2,3-Trichloropropane	<61	<58	<49	<31	<10,200	<320	<31	<31
1,2,4-Trimethylbenzene	110	<58	130	<31	<10,200	2,170	<31	<31
1,3,5-Trimethylbenzene	81	<58	67	<31	<10,200	537	<31	<31
Vinyl Chloride	<61	<58	<49	<31	<10,200	<320	<31	<31
Xylene, total	140	<81	316	<43	28,700	3,710	56	<43
TOTAL VOCs + Naphthalene	2,166	390	2,375	294	392,700	90,962	949	312

All units report in µg/kg

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**TABLE 4  
TEST AMERICA - SEDIMENT SAMPLE RESULTS**

Parameter (SVOCs-8270)	SD-53	SD-53	SD-53	SD-53	SD-54	SD-54	SD-54	SD-54
Depth	2-4	4-6	6-8	8-10	2-4	4-6	6-8	10-12
Solids (%)	80.9	80.4	81.2	82.0	21.6	81.6	71.3	74.8
Acenaphthene	7.5	21	<0.41	1.5	450	58	2.1	5.5
Acenaphthylene	0.53	1.1	<0.41	<0.40	<130	7.4	1.1	2.9
Antracene	2.8	5.1	<0.41	0.71	210	26	1.4	3.6
Benzo(a)anthracene	1.5	3.1	<0.41	<0.40	<130	11	0.60	1.6
Benzo(b)fluoranthene	0.57	1.2	<0.41	<0.40	<130	4.8	<0.46	0.53
Benzo(k)fluoranthene	0.79	1.7	<0.41	<0.40	<130	6.1	<0.46	0.72
Benzo(g,h,l)perylene	0.64	1.4	<0.41	<0.40	<130	4.7	<0.46	0.47
Benzo(a)pyrene	1.4	2.9	<0.41	<0.40	<130	8.6	<0.46	1.2
Chrysene	1.4	3.0	<0.41	<0.40	<130	10	0.52	1.5
Dibenzo(a,h)anthracene	<0.41	<0.41	<0.41	<0.40	<130	1.1	<0.46	<0.44
Fluoranthene	3.3	6.2	<0.41	0.91	210	25	1.3	3.2
Fluorene	4.1	5.5	<0.41	0.84	190	9.2	1.5	3.6
Indeno (1,2,3-cd)pyrene	0.59	1.2	<0.41	<0.40	<130	4.5	<0.46	<0.44
2-Methylnaphthalene	20	29	<0.41	1.5	926	147	4.1	13
Naphthalene	30	35	<0.41	1.2	741	172	2.9	13
Phenanthrene	8.5	27	0.57	2.6	648	72	4.5	9.6
Pyrene	4.8	9.1	<0.41	1.3	260	34	1.8	4.5
TOTAL PAHs	71.29	113	0.57	8.35	2975	463.7	16.1	46.9

All units reported in mg/kg



TABLE 4

## TEST AMERICA - SEDIMENT SAMPLE RESULTS

Parameter (VOCs-8260)	TEST AMERICA - SEDIMENT SAMPLE RESULTS								
	SD-53	SD-53	SD-53	SD-53	SD-54	SD-54	SD-54	SD-54	SD-54
Depth	2-4	4-6	6-8	8-10	2-4	4-6	6-8	10-12	
Benzene	<1,480	236	96	<305	<23,100	564	91	<33	
Bromobenzene	<1,480	<31	<31	<305	<23,100	<31	<35	<33	
Bromochloromethane	<1,480	<31	<31	<305	<23,100	<31	<35	<33	
Bromodichloromethane	<1,480	<31	<31	<305	<23,100	<31	<35	<33	
Bromoforn	<1,480	<31	<31	<305	<23,100	<31	<35	<33	
Bromomethane	<6,180	<124	<123	<1,220	<92,600	<123	<140	<134	
n-Butylbenzene	<1,480	<31	<31	<305	<23,100	<31	<35	<33	
sec-Butylbenzene	<1,480	<31	<31	<305	<23,100	<31	<35	<33	
tert-Butylbenzene	<1,480	<31	<31	<305	<23,100	<31	<35	<33	
Carbon Tetrachloride	<1,480	<31	<31	<305	<23,100	<31	<35	<33	
Chlorobenzene	<1,480	<31	<31	<305	<23,100	<31	<35	<33	
Chlorodibromomethane	<1,480	<31	<31	<305	<23,100	<31	<35	<33	
Chloroethane	<2,220	<44	<43	<427	<32,400	<43	<49	<47	
Chloroform	<1,480	<31	<31	<305	<23,100	<31	<35	<33	
Chloromethane	<3,090	<62	<62	<610	<46,300	<61	<70	<67	
2-Chlorotoluene	<1,480	<31	<31	<305	<23,100	<31	<35	<33	
4-Chlorotoluene	<1,480	<31	<31	<305	<23,100	<31	<35	<33	
1,2-Dibromo-3-Chloropropane	<3,090	<62	<62	<610	<46,300	<61	<70	<67	
1,2-Dibromomethane (EDB)	<1,480	<31	<31	<305	<23,100	<31	<35	<33	
Dibromomethane	<1,480	<31	<31	<305	<23,100	<31	<35	<33	
1,2-Dichlorobenzene	<1,480	<31	<31	<305	<23,100	<31	<35	<33	
1,3-Dichlorobenzene	<1,480	<31	<31	<305	<23,100	<31	<35	<33	
1,4-Dichlorobenzene	<1,480	<31	<31	<305	<23,100	<31	<35	<33	
Dichlorodifluoromethane	<1,480	<31	<31	<305	<23,100	<31	<35	<33	
1,1-Dichloroethane	<1,480	<31	<31	<305	<23,100	<31	<35	<33	
1,2-Dichloroethane	<1,480	<31	<31	<305	<23,100	<31	<35	<33	
1,1-Dichloroethene	<1,480	<31	<31	<305	<23,100	<31	<35	<33	
cis-1,2-Dichloroethene	<1,480	<31	<31	<305	<23,100	<31	<35	<33	
trans-1,2-Dichloroethene	<1,480	<31	<31	<305	<23,100	<31	<35	<33	
1,2-Dichloropropane	<1,480	<31	<31	<305	<23,100	<31	<35	<33	
1,3-Dichloropropane	<1,480	<31	<31	<305	<23,100	<31	<35	<33	
2,2-Dichloropropane	<1,480	<31	<31	<305	<23,100	<31	<35	<33	
1,1-Dichloropropene	<1,480	<31	<31	<305	<23,100	<31	<35	<33	
cis-1,3-Dichloropropene	<1,480	<31	<31	<305	<23,100	<31	<35	<33	
trans-1,3-Dichloropropene	<1,480	<31	<31	<305	<23,100	<31	<35	<33	
Di-isopropyl ether	<1,480	<31	<31	<305	<23,100	<31	<35	<33	
Ethylbenzene	4,820	871	135	537	<23,100	2,570	238	187	
Hexachlorobutadiene	<2,220	<44	<43	<427	<32,400	<43	<49	<47	
Isopropylbenzene	<1,480	68	<31	<305	<23,100	466	<35	<33	
p-Isopropyltoluene	<1,480	77	<31	<305	<23,100	1,120	45	35	
Methylene Chloride	3,710 L	82 L	69 L	805 L	<46,300	<61	<35	<33	
Methyl-t-butyl-ether	<1,480	<31	<31	<305	<23,100	<31	<35	<33	
Naphthalene	81,600	14,900	1,230	7,800	306,000	44,100	6,170	7,350	
n-Propylbenzene	<1,480	<31	<31	<305	<23,100	87	<35	<33	
Styrene	<1,480	<31	<31	<305	<23,100	<31	<35	<33	
1,1,1,2-Tetrachloroethane	<1,480	<31	<31	<305	<23,100	<31	<35	<33	
1,1,1,2,2-Tetrachloroethane	<1,480	<31	<31	<305	<23,100	<31	<35	<33	
Tetrachloroethane	<1,480	<31	<31	<305	<23,100	<31	<35	<33	
Toluene	<1,480	62	<31	<305	<23,100	355	110	<33	
1,2,3-Trichlorobenzene	<1,480	<31	<31	<305	<23,100	<31	<35	<33	
1,2,4-Trichlorobenzene	<1,480	<31	<31	<305	<23,100	<31	<35	<33	
1,1,1-Trichloroethane	<1,480	<31	<31	<305	<23,100	<31	<35	<33	
1,1,2-Trichloroethane	<1,480	<31	<31	<305	<23,100	<31	<35	<33	
Trichloroethene	<1,480	<31	<31	<305	<23,100	<31	<35	<33	
Trichlorofluoromethane	<1,480	<31	<31	<305	<23,100	<31	<35	<33	
1,2,3-Trichloropropane	<1,480	<31	<31	<305	<23,100	<31	<35	<33	
1,2,4-Trimethylbenzene	2,220	410	38	<305	<23,100	1,590	154	214	
1,3,5-Trimethylbenzene	<1,480	100	<31	<305	<23,100	502	56	70	
Vinyl Chloride	<1,480	<31	<31	<305	<23,100	<31	<35	<33	
Xylene, total	3,830	697	100	<427	<32,400	2,450	224	201	
TOTAL VOCs + Naphthalene	92,470	17,421	1,599	8,337	306,000	53,804	7,088	8,057	

All units report in µg/kg

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**TABLE 4  
TEST AMERICA - SEDIMENT SAMPLE RESULTS**

Parameter (SVOCs-8270)	SD-55	SD-55	SD-55	SD-55	SD-55	SD-56	SD-56	SD-56
Depth	0-2	2-4	4-6	6-8	8-10	0-2	4-6	6-8
Solids (%)	24.0	80.2	82.9	83.4	83.7	29.9	80.2	83.1
Acenaphthene	833	34	<0.40	2.0	<0.39	230	<20	<0.40
Acenaphthylene	75	3.6	<0.40	<0.40	<0.39	<31	<20	<0.40
Antracene	360	15	<0.40	1.1	<0.39	110	22	<0.40
Benzo(a)anthracene	150	6.2	<0.40	0.46	<0.39	37	<20	<0.40
Benzo(b)fluoranthene	50	2.1	<0.40	<0.40	<0.39	<31	<20	<0.40
Benzo(k)fluoranthene	71	2.9	<0.40	<0.40	<0.39	<31	<20	<0.40
Benzo(g,h,i)perylene	<42	<2.0	<0.40	<0.40	<0.39	<31	<20	<0.40
Benzo(a)pyrene	100	4.6	<0.40	<0.40	<0.39	<31	<20	<0.40
Chrysene	130	5.6	<0.40	0.41	<0.39	33	<20	<0.40
Dibenzo(a,h)anthracene	<42	<2.0	<0.40	<0.40	<0.39	<31	<20	<0.40
Fluoranthene	330	14	<0.40	1.1	<0.39	110	21	<0.40
Fluorene	500	15	<0.40	0.97	<0.39	94	30	<0.40
Indeno (1,2,3-cd)pyrene	<42	<2.0	<0.40	<0.40	<0.39	<31	<20	<0.40
2-Methylnaphthalene	2,380	92	0.43	3.2	<0.39	669	8.5	<0.40
Naphthalene	2,710	100	<0.40	3.0	<0.39	769	150	<0.40
Phenanthrene	917	39	0.48	3.4	0.42	330	71	<0.40
Pyrene	410	17	<0.40	1.3	<0.39	120	86	<0.40
TOTAL PAHs	7247	277	0.91	12.97	0.42	2092	366.5	0

All units reported in mg/kg

TABLE 4

## TEST AMERICA - SEDIMENT SAMPLE RESULTS

Parameter (VOCs-8260)	TEST AMERICA - SEDIMENT SAMPLE RESULTS								
	SD-55	SD-55	SD-55	SD-55	SD-55	SD-56	SD-56	SD-56	SD-56
Depth	0-2	2-4	4-6	6-8	8-10	0-2	4-6	6-8	6-8
Benzene	<50,000	<15,000	145	132	<143	<16,700	1,620	110	
Bromobenzene	<50,000	<15,000	<30	<30	<143	<16,700	<31	<30	
Bromochloromethane	<50,000	<15,000	<30	<30	<143	<16,700	<31	<30	
Bromodichloromethane	<50,000	<15,000	<30	<30	<143	<16,700	<31	<30	
Bromoform	<50,000	<15,000	<30	<30	<143	<16,700	<31	<30	
Bromomethane	<208,000	<62,300	<121	<120	<597	<66,900	<125	<120	
n-Butylbenzene	<50,000	<15,000	<30	<30	<143	<16,700	<31	<30	
sec-Butylbenzene	<50,000	<15,000	<30	<30	<143	<16,700	<31	<30	
tert-Butylbenzene	<50,000	<15,000	<30	<30	<143	<16,700	<31	<30	
Carbon Tetrachloride	<50,000	<15,000	<30	<30	<143	<16,700	<31	<30	
Chlorobenzene	<50,000	<15,000	<30	<30	<143	<16,700	<31	<30	
Chlorodibromomethane	<50,000	<15,000	<30	<30	<143	<16,700	<31	<30	
Chloroethane	<75,000	<22,400	<42	<42	<215	<23,400	<44	<42	
Chloroform	<50,000	<15,000	<30	<30	<143	<16,700	<31	<30	
Chloromethane	<104,000	<31,200	<60	<60	<299	<33,400	<62	<60	
2-Chlorotoluene	<50,000	<15,000	<30	<30	<143	<16,700	<31	<30	
4-Chlorotoluene	<50,000	<15,000	<30	<30	<143	<16,700	<31	<30	
1,2-Dibromo-3-Chloropropane	<104,000	<31,200	<60	<60	<299	<33,400	<62	<60	
1,2-Dibromomethane (EDB)	<50,000	<15,000	<30	<30	<143	<16,700	<31	<30	
Dibromomethane	<50,000	<15,000	<30	<30	<143	<16,700	<31	<30	
1,2-Dichlorobenzene	<50,000	<15,000	<30	<30	<143	<16,700	<31	<30	
1,3-Dichlorobenzene	<50,000	<15,000	<30	<30	<143	<16,700	<31	<30	
1,4-Dichlorobenzene	<50,000	<15,000	<30	<30	<143	<16,700	<31	<30	
Dichlorodifluoromethane	<50,000	<15,000	<30	<30	<143	<16,700	<31	<30	
1,1-Dichloroethane	<50,000	<15,000	<30	<30	<143	<16,700	<31	<30	
1,2-Dichloroethane	<50,000	<15,000	<30	<30	<143	<16,700	<31	<30	
1,1-Dichloroethene	<50,000	<15,000	<30	<30	<143	<16,700	<31	<30	
cis-1,2-Dichloroethene	<50,000	<15,000	<30	<30	<143	<16,700	<31	<30	
trans-1,2-Dichloroethene	<50,000	<15,000	<30	<30	<143	<16,700	<31	<30	
1,2-Dichloropropane	<50,000	<15,000	<30	<30	<143	<16,700	<31	<30	
1,3-Dichloropropane	<50,000	<15,000	<30	<30	<143	<16,700	<31	<30	
2,2-Dichloropropane	<50,000	<15,000	<30	<30	<143	<16,700	<31	<30	
1,1-Dichloropropene	<50,000	<15,000	<30	<30	<143	<16,700	<31	<30	
cis-1,3-Dichloropropene	<50,000	<15,000	<30	<30	<143	<16,700	<31	<30	
trans-1,3-Dichloropropene	<50,000	<15,000	<30	<30	<143	<16,700	<31	<30	
Di-isopropyl ether	<50,000	<15,000	<30	<30	<143	<16,700	<31	<30	
Ethylbenzene	<50,000	<15,000	145	635	<143	31,100	5,610	70	
Hexachlorobutadiene	<75,000	<22,400	<42	<42	<299	<16,700	<44	<42	
Isopropylbenzene	<50,000	<15,000	<30	76	<143	<16,700	611	<30	
p-Isopropyltoluene	<50,000	<15,000	<30	62	<143	<16,700	411	<30	
Methylene Chloride	<50,000	59,900 L	93 L	64 L	645 L	36,800 L	70 L	78 L	
Methyl-t-butyl-ether	<50,000	<15,000	<30	<30	<143	<143	<31	<30	
Naphthalene	833,000	337,000	2,770	9,110	2,150	278,000	77,300	710	
n-Propylbenzene	<50,000	<15,000	<30	<30	<143	<16,700	187	<30	
Styrene	<50,000	<15,000	<30	<30	<143	<16,700	<31	<30	
1,1,1,2-Tetrachloroethane	<50,000	<15,000	<30	<30	<143	<16,700	<31	<30	
1,1,1,2,2-Tetrachloroethane	<50,000	<15,000	<30	<30	<143	<16,700	<31	<30	
Tetrachloroethane	<50,000	<15,000	<30	<30	<143	<16,700	<31	<30	
Toluene	<50,000	<15,000	98	216	<143	<16,700	1,620	<30	
1,2,3-Trichlorobenzene	<50,000	<15,000	<30	<30	<143	<16,700	<31	<30	
1,2,4-Trichlorobenzene	<50,000	<15,000	<30	<30	<143	<16,700	<31	<30	
1,1,1-Trichloroethane	<50,000	<15,000	<30	<30	<143	<16,700	<31	<30	
1,1,2-Trichloroethane	<50,000	<15,000	<30	<30	<143	<16,700	<31	<30	
Trichloroethene	<50,000	<15,000	<30	<30	<143	<16,700	<31	<30	
Trichlorofluoromethane	<50,000	<15,000	<30	<30	<143	<16,700	<31	<30	
1,2,3-Trichloropropane	<50,000	<15,000	<30	<30	<143	<16,700	<31	<30	
1,2,4-Trimethylbenzene	<50,000	<15,000	97	420	<143	<16,700	3,240	41	
1,3,5-Trimethylbenzene	<50,000	<15,000	<30	97	<143	<16,700	985	<30	
Vinyl Chloride	<50,000	<15,000	<30	<30	<143	<16,700	<31	<30	
Xylene, total	<75,000	<22,400	169	647	<215	31,100	5,990	58	
TOTAL VOCs + Naphthalene	833,000	337,000	3,424	11,395	2,150	340,200	97,574	989	

All units report in µg/kg

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**TABLE 4  
TEST AMERICA - SEDIMENT SAMPLE RESULTS**

Parameter (SVOCs-8270)	SD-57	SD-57	SD-57	SD-58	SD-58
	Depth 4-6	6-7	7-8	4-6	6-8
Solids (%)	67.5	82.0	84.0	80.3	83.0
Acenaphthene	80	0.79	<0.39	4.9	<0.40
Acenaphthylene	5.2	<0.40	<0.39	<2.0	<0.40
Antracene	43	<0.40	<0.39	<2.0	<0.40
Benzo(a)anthracene	18	<0.40	<0.39	<2.0	<0.40
Benzo(b)fluoranthene	6.5	<0.40	<0.39	<2.0	<0.40
Benzo(k)fluoranthene	8.3	<0.40	<0.39	<2.0	<0.40
Benzo(g,h,i)perylene	7.4	<0.40	<0.39	<2.0	<0.40
Benzo(a)pyrene	16	<0.40	<0.39	<2.0	<0.40
Chrysene	16	<0.40	<0.39	<2.0	<0.40
Dibenzo(a,h)anthracene	1.6	<0.40	<0.39	<2.0	<0.40
Fluoranthene	43	<0.40	<0.39	<2.0	<0.40
Fluorene	44	<0.40	<0.39	2.4	<0.40
Indeno (1,2,3-cd)pyrene	6.8	<0.40	<0.39	<2.0	<0.40
2-Methylnaphthalene	110	0.99	<0.39	7.0	<0.40
Naphthalene	84	1.2	<0.39	7.3	<0.40
Phenanthrene	110	0.96	<0.39	6.5	<0.40
Pyrene	61	0.40	<0.39	3.0	<0.40
TOTAL PAHs	458.8	3.55	0	26.2	0

All units reported in mg/kg

**TABLE 4**  
**TEST AMERICA - SEDIMENT SAMPLE RESULTS**

Parameter (VOCs-8260)	SD-57	SD-57	SD-57	SD-58	SD-58
	Depth	4-6	6-7	7-8	4-6
Benzene	<7,410	159	80	<3,110	<30
Bromobenzene	<7,410	<30	<30	<3,110	<30
Bromochloromethane	<7,410	<30	<30	<3,110	<30
Bromodichloromethane	<7,410	<30	<30	<3,110	<30
Bromoform	<7,410	<122	<119	<3,110	<30
Bromomethane	<29,600	<30	<30	<12,500	<120
n-Butylbenzene	<7,410	<30	<30	<3,110	<30
sec-Butylbenzene	<7,410	<30	<30	<3,110	<30
tert-Butylbenzene	<7,410	<30	<30	<3,110	<30
Carbon Tetrachloride	<7,410	<30	<30	<3,110	<30
Chlorobenzene	<7,410	<30	<30	<3,110	<30
Chlorodibromomethane	<7,410	<43	<42	<3,110	<30
Chloroethane	<10,400	<30	<30	<4,360	<42
Chloroform	<7,410	<61	<60	<3,110	<30
Chloromethane	<14,800	<30	<30	<6,230	<60
2-Chlorotoluene	<7,410	<30	<30	<3,110	<30
4-Chlorotoluene	<7,410	<61	<60	<3,110	<30
1,2-Dibromo-3-Chloropropane	<14,800	<30	<30	<6,230	<60
1,2-Dibromomethane (EDB)	<7,410	<30	<30	<3,110	<30
Dibromomethane	<7,410	<30	<30	<3,110	<30
1,2-Dichlorobenzene	<7,410	<30	<30	<3,110	<30
1,3-Dichlorobenzene	<7,410	<30	<30	<3,110	<30
1,4-Dichlorobenzene	<7,410	<30	<30	<3,110	<30
Dichlorodifluoromethane	<7,410	<30	<30	<3,110	<30
1,1-Dichloroethane	<7,410	<30	<30	<3,110	<30
1,2-Dichloroethane	<7,410	<30	<30	<3,110	<30
1,1-Dichloroethene	<7,410	<30	<30	<3,110	<30
cis-1,2-Dichloroethene	<7,410	<30	<30	<3,110	<30
trans-1,2-Dichloroethene	<7,410	<30	<30	<3,110	<30
1,2-Dichloropropane	<7,410	<30	<30	<3,110	<30
1,3-Dichloropropane	<7,410	<30	<30	<3,110	<30
2,2-Dichloropropane	<7,410	<30	<30	<3,110	<30
1,1-Dichloropropene	<7,410	<30	<30	<3,110	<30
cis-1,3-Dichloropropene	<7,410	<30	<30	<3,110	<30
trans-1,3-Dichloropropene	<7,410	<30	<30	<3,110	<30
Di-isopropyl ether	<7,410	<30	<30	<3,110	<30
Ethylbenzene	9,480	220	69	9,710	<30
Hexachlorobutadiene	<10,400	<43	<42	<4,360	<42
Isopropylbenzene	<7,410	<30	<30	<3,110	<30
p-Isopropyltoluene	<7,410	<30	<30	<3,110	<30
Methylene Chloride	41,500 L	71 L	110 L	16,200 L	265 L
Methyl-t-butyl-ether	<7,410	<30	<30	<3,110	<30
Naphthalene	356,000	3,780	<30	249,000	157
n-Propylbenzene	<7,410	<30	<30	<3,110	<30
Styrene	<7,410	<30	<30	<3,110	<30
1,1,1,2-Tetrachloroethane	<7,410	<30	<30	<3,110	<30
1,1,2,2-Tetrachloroethane	<7,410	<30	<30	<3,110	<30
Tetrachloroethane	<7,410	<30	<30	<3,110	<30
Toluene	<7,410	<30	<30	<3,110	<30
1,2,3-Trichlorobenzene	<7,410	<30	<30	<3,110	<30
1,2,4-Trichlorobenzene	<7,410	<30	<30	<3,110	<30
1,1,1-Trichloroethane	<7,410	<30	<30	<3,110	<30
1,1,2-Trichloroethane	<7,410	<30	<30	<3,110	<30
Trichloroethene	<7,410	<30	<30	<3,110	<30
Trichlorofluoromethane	<7,410	<30	<30	<3,110	<30
1,2,3-Trichloropropane	<7,410	<30	<30	<3,110	<30
1,2,4-Trimethylbenzene	10,200	98	<30	8,970	<30
1,3,5-Trimethylbenzene	<7,410	<30	<30	<3,110	<30
Vinyl Chloride	<7,410	<30	<30	<3,110	<30
Xylene, total	<10,400	66	<42	7,470	<42
<b>TOTAL VOCs + Naphthalene</b>	<b>375,680</b>	<b>4,323</b>	<b>149</b>	<b>275,150</b>	<b>157</b>

All units report in µg/kg

**TABLE 4  
TEST AMERICA - SEDIMENT SAMPLE RESULTS**

Parameter (SVOCs-8270)	SD-59	SD-59	SD-59	SD-59	MeOH
Depth	0-2	2-4	4-6	6-8	Blank
Solids (%)	28.7	30.1	81.9	81.7	
Acenaphthene	49	230	0.67	<0.40	
Acenaphthylene	<21	<33	<0.40	<0.40	
Antracene	<21	86	<0.40	<0.40	
Benzo(a)anthracene	<21	37	<0.40	<0.40	
Benzo(b)fluoranthene	<21	<33	<0.40	<0.40	
Benzo(k)fluoranthene	<21	<33	<0.40	<0.40	
Benzo(g,h,i)perylene	<21	<33	<0.40	<0.40	
Benzo(a)pyrene	<21	<33	<0.40	<0.40	
Chrysene	<21	37	<0.40	<0.40	
Dibenzo(a,h)anthracene	<21	<33	<0.40	<0.40	
Fluoranthene	26	90	<0.40	<0.40	
Fluorene	<21	120	<0.40	<0.40	
Indeno (1,2,3-cd)pyrene	<21	<33	<0.40	<0.40	
2-Methylnaphthalene	91	465	<0.40	<0.40	
Naphthalene	160	731	<0.40	<0.40	
Phenanthrene	38	270	0.77	<0.40	
Pyrene	38	110	<0.40	<0.40	
<b>TOTAL PAHs</b>	<b>353</b>	<b>1786</b>	<b>0.77</b>	<b>0</b>	

All units reported in mg/kg

TABLE 4					
TEST AMERICA - SEDIMENT SAMPLE RESULTS					
Parameter (VOCs-8260)	SD-59	SD-59	SD-59	SD-59	MeOH
Depth	0-2	2-4	4-6	6-8	Blank
Benzene	<871	<16,600	51	<31	<25
Bromobenzene	<871	<16,600	<31	<31	<25
Bromochloromethane	<871	<16,600	<31	<31	<25
Bromodichloromethane	<871	<16,600	<31	<31	<25
Bromoform	<871	<16,600	<31	<31	<25
Bromomethane	<3,480	<66,400	<122	<122	<100
n-Butylbenzene	<871	<16,600	<31	<31	<25
sec-Butylbenzene	<871	<16,600	<31	<31	<25
tert-Butylbenzene	<871	<16,600	<31	<31	<25
Carbon Tetrachloride	<871	<16,600	<31	<31	<25
Chlorobenzene	<871	<16,600	<31	<31	<25
Chlorodibromomethane	<871	<16,600	<31	<31	<25
Chloroethane	<1,220	<23,300	<43	<43	<35
Chloroform	<871	<16,600	<31	<31	<25
Chloromethane	<1,740	<33,200	<61	<61	<50
2-Chlorotoluene	<871	<16,600	<31	<31	<25
4-Chlorotoluene	<871	<16,600	<31	<31	<25
1,2-Dibromo-3-Chloropropane	<1,740	<33,200	<61	<61	<50
1,2-Dibromomethane (EDB)	<871	<16,600	<31	<31	<25
Dibromomethane	<871	<16,600	<31	<31	<25
1,2-Dichlorobenzene	<871	<16,600	<31	<31	<25
1,3-Dichlorobenzene	<871	<16,600	<31	<31	<25
1,4-Dichlorobenzene	<871	<16,600	<31	<31	<25
Dichlorodifluoromethane	<871	<16,600	<31	<31	<25
1,1-Dichloroethane	<871	<16,600	<31	<31	<25
1,2-Dichloroethane	<871	<16,600	<31	<31	<25
1,1-Dichloroethene	<871	<16,600	<31	<31	<25
cis-1,2-Dichloroethene	<871	<16,600	<31	<31	<25
trans-1,2-Dichloroethene	<871	<16,600	<31	<31	<25
1,2-Dichloropropane	<871	<16,600	<31	<31	<25
1,3-Dichloropropane	<871	<16,600	<31	<31	<25
2,2-Dichloropropane	<871	<16,600	<31	<31	<25
1,1-Dichloropropene	<871	<16,600	<31	<31	<25
cis-1,3-Dichloropropene	<871	<16,600	<31	<31	<25
trans-1,3-Dichloropropene	<871	<16,600	<31	<31	<25
Di-isopropyl ether	<871	<16,600	<31	<31	<25
Ethylbenzene	<871	18,900	208	<31	<25
Hexachlorobutadiene	<1,220	<23,300	<43	<43	<35
Isopropylbenzene	<871	<16,600	<31	<31	<25
p-Isopropyltoluene	13,900	<16,600	<31	<31	<25
Methylene Chloride	1,920 L	59,800 L	81 L	69 L	58 L
Methyl-t-butyl-ether	<871	<16,600	<31	<31	<25
Naphthalene	7,320	465,000	3,540	269	<25
n-Propylbenzene	<871	<16,600	<31	<31	<25
Styrene	<871	<16,600	<31	<31	<25
1,1,1,2-Tetrachloroethane	<871	<16,600	<31	<31	<25
1,1,2,2-Tetrachloroethane	<871	<16,600	<31	<31	<25
Tetrachloroethane	<871	<16,600	<31	<31	<25
Toluene	2,200	<16,600	<31	<31	<25
1,2,3-Trichlorobenzene	<871	<16,600	<31	<31	<25
1,2,4-Trichlorobenzene	<871	<16,600	<31	<31	<25
1,1,1-Trichloroethane	<871	<16,600	<31	<31	<25
1,1,2-Trichloroethane	<871	<16,600	<31	<31	<25
Trichloroethene	<871	<16,600	<31	<31	<25
Trichlorofluoromethane	<871	<16,600	<31	<31	<25
1,2,3-Trichloropropane	<871	<16,600	<31	<31	<25
1,2,4-Trimethylbenzene	1,430	<16,600	122	<31	<25
1,3,5-Trimethylbenzene	<871	<16,600	43	<31	<25
Vinyl Chloride	<871	<16,600	<31	<31	<25
Xylene, total	<1,220	<23,200	195	<43	<25
TOTAL VOCs + Naphthalene	24,850	483,900	4,159	269	0

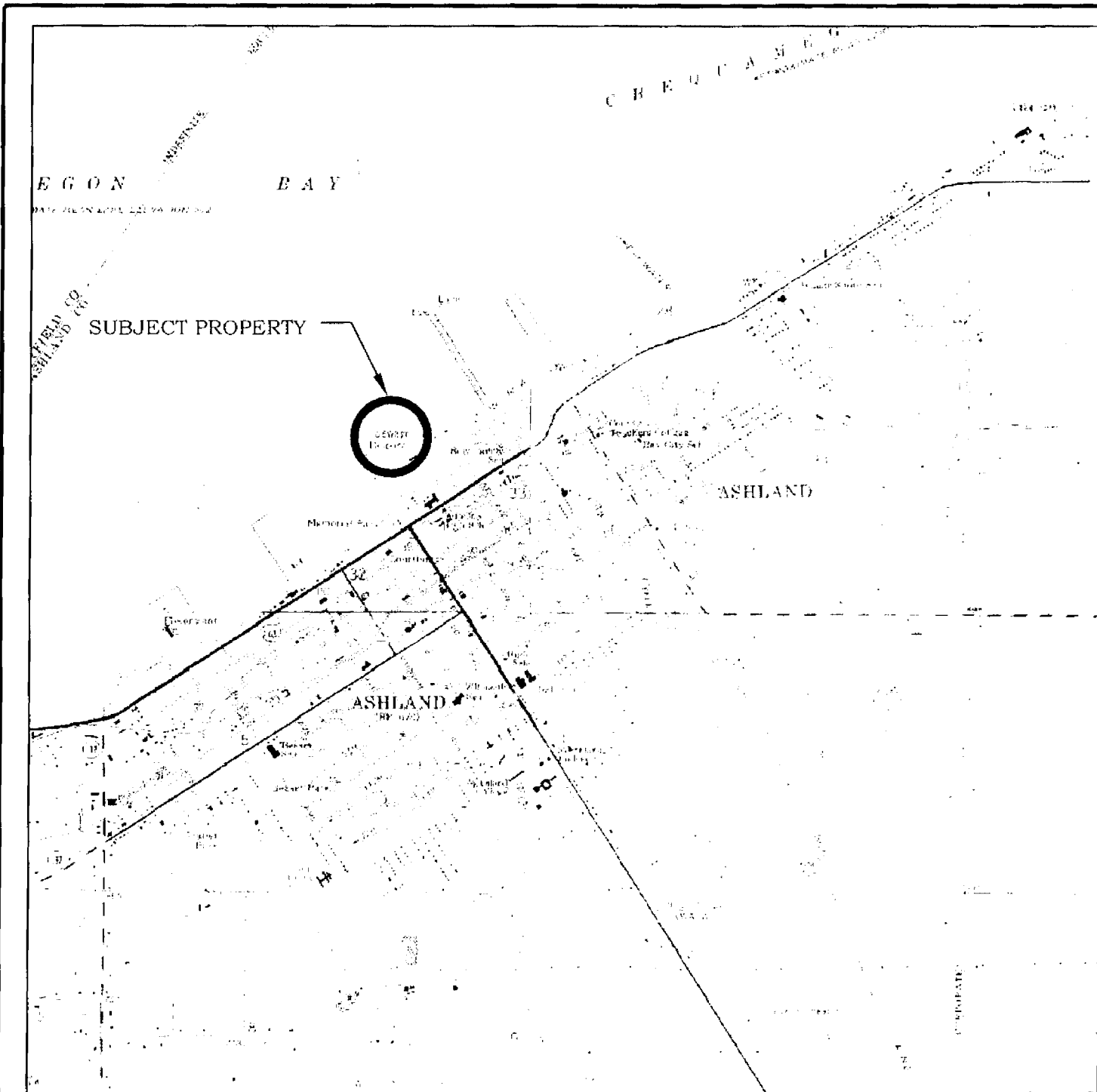
All units report in µg/kg

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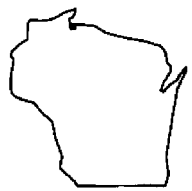
**FIGURES**

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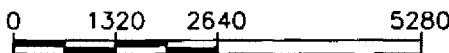
BASE MAP SOURCE: USGS 7.5 MINUTE TOPOGRAPHIC QUADRANGLE, ASHLAND, WISCONSIN, DATED 1964, PHOTOREVISED 1975.



QUADRANGLE LOCATION



NORTH

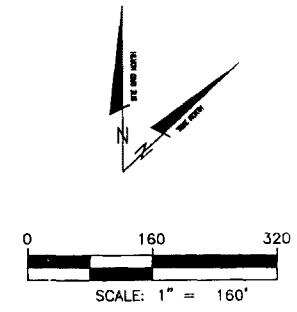
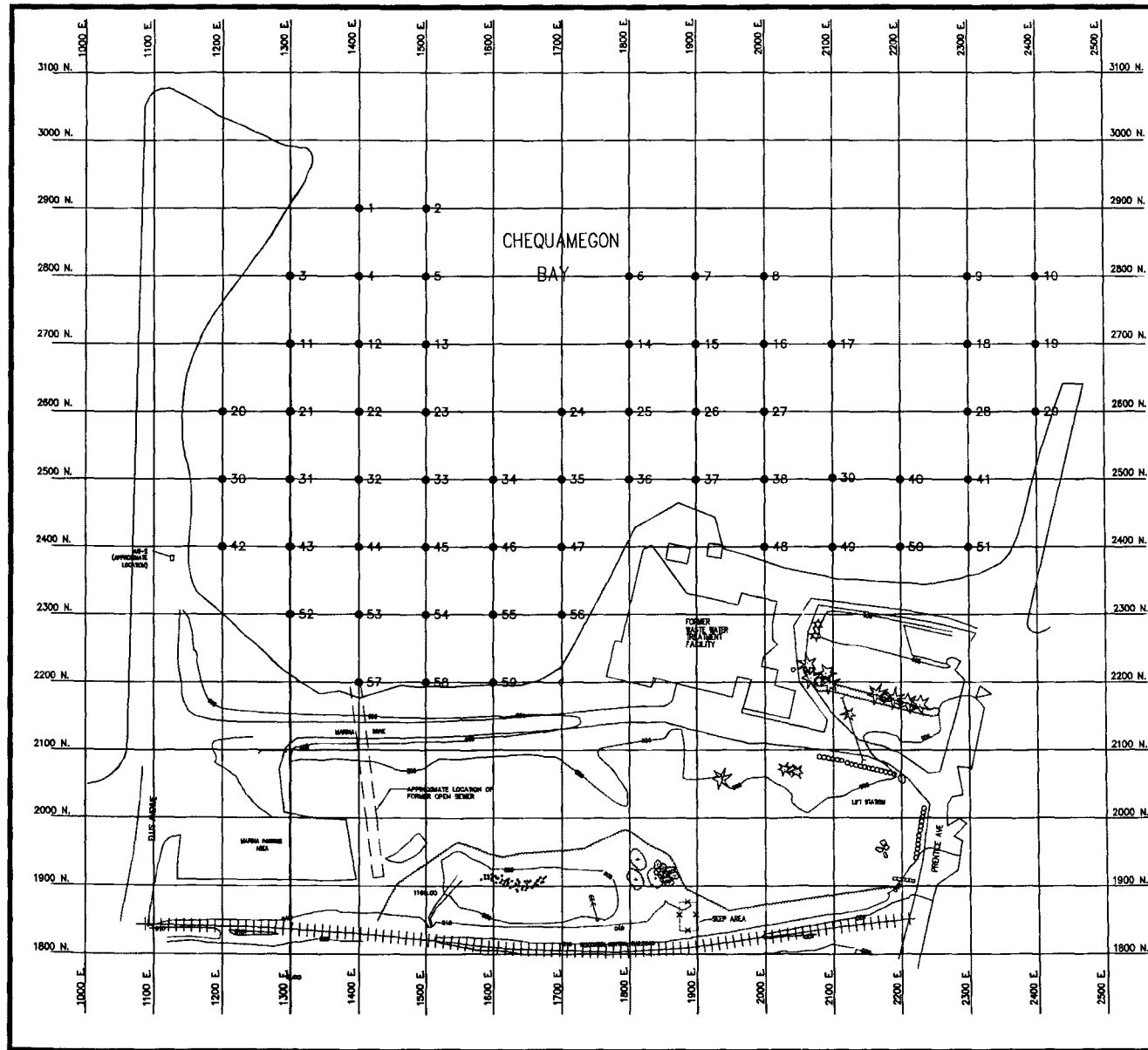


SCALE IN FEET

PROJECT: NSP/ASHLAND-LAKEFRONT SITE ASHLAND, WISCONSIN		
TITLE: FIGURE 1 SITE LOCATION MAP		
DRAWN BY: BRN	SCALE: 1" = 2640'	PROJ. NO. 05644-098
CHECKED BY: DPT	DATE: 03.MAY.01	SHEET 1 OF 19
APPROVED BY: DPT		
<b>URS</b> Dames & Moore		5250 E TERRACE DRIVE, SUITE J MADISON, WISCONSIN 53718 (608) 244-9636

S:\CADDFILES\NSP\05644098\0501\_FIGURE\_1

FILE: S:\CADDFILES\NSP\05644098\0501\_FIGURE\_2



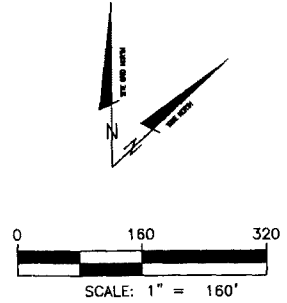
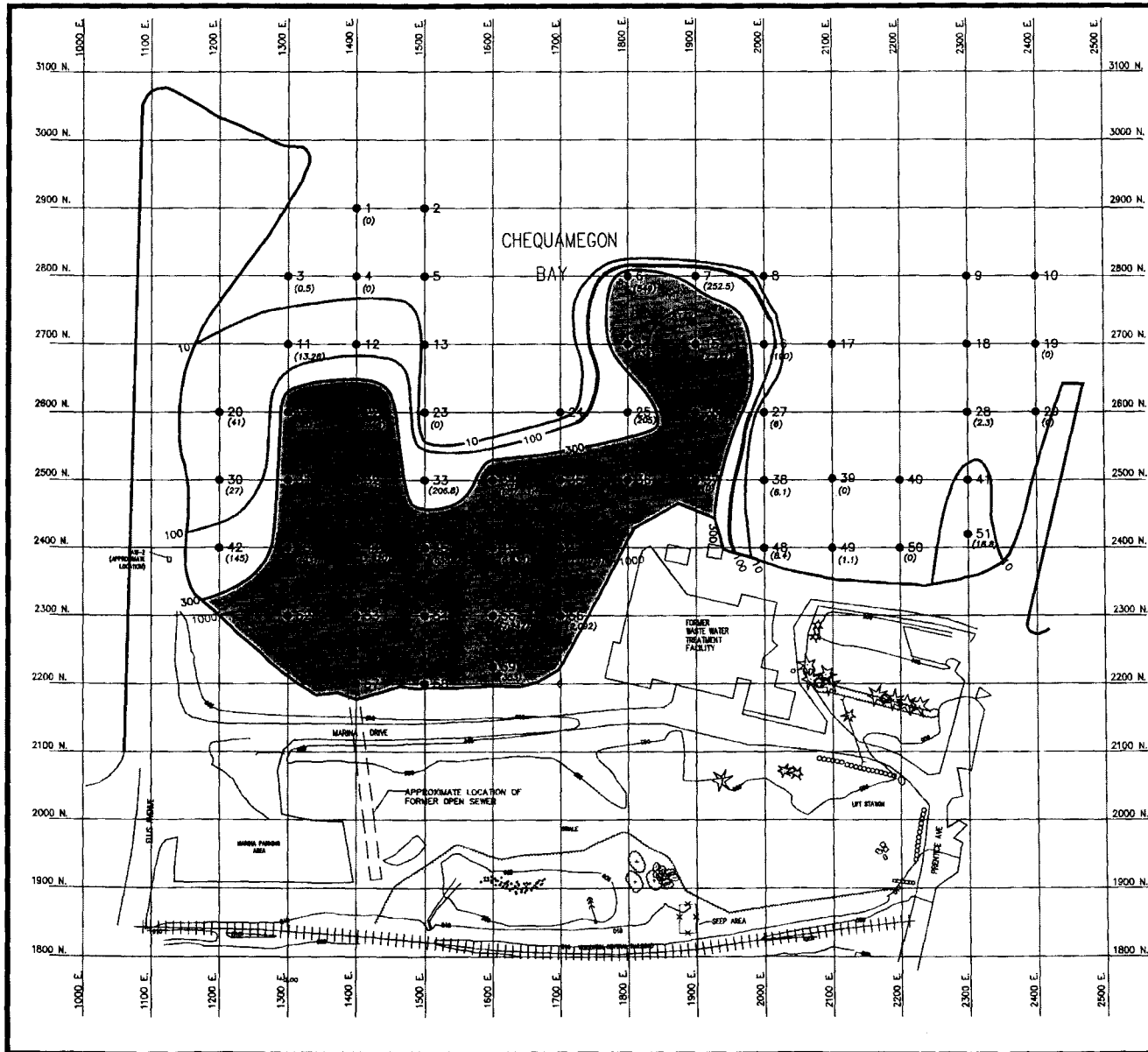
**LEGEND**

- 10 SEDIMENT SAMPLING LOCATION
- ||||| RAILROAD TRACKS
- TOPOGRAPHIC CONTOUR (5' INTERVAL)
- CULVERT
- ★ PINE TREE
- TREE
- SHRUB / HEDGE
- MARSH

NOTE:  
BASE MAP ON KREHER PARK FROM SEH DRAFT  
FEASIBILITY STUDY, DATED FEBRUARY 1996.

PROJECT: NSP/ASHLAND-LAKEFRONT SITE ASHLAND, WISCONSIN		
TITLE: FIGURE 2 SEDIMENT SAMPLING LOCATIONS CHEQUAMEGON BAY		
DRAWN BY: BPH	SCALE: 1"=160'	PRQJ. NO. 05644-098
CHECKED BY: DPT	DATE: 04.MAY.01	SHEET 2 OF 19
APPROVED BY: DPT		
<b>URS</b> Darnes & Moore		8850 E TEMPORE DRIVE, SUITE J MADISON, WISCONSIN 53718 (608) 244-8858

FILE: S:\CADFILES\NSP\05644098\0501\_FIGURE\_3A



- LEGEND**
- 10 SEDIMENT SAMPLING LOCATION
  - SVOC ISOCONCENTRATION CONTOUR (MG/KG)
  - (1.1) SVOC CONCENTRATION (MG/KG) SAMPLE ANALYZED BY TEST AMERICA
  - (1.1)\* SVOC CONCENTRATION (MG/KG) SAMPLE ANALYZED BY META ENVIRONMENTAL
  - ++++ RAILROAD TRACKS
  - TOPOGRAPHIC CONTOUR (5' INTERVAL)
  - CULVERT
  - ★ PINE TREE
  - TREE
  - SHRUB / HEDGE
  - MARSH

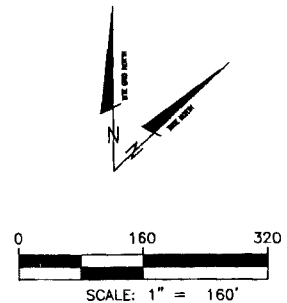
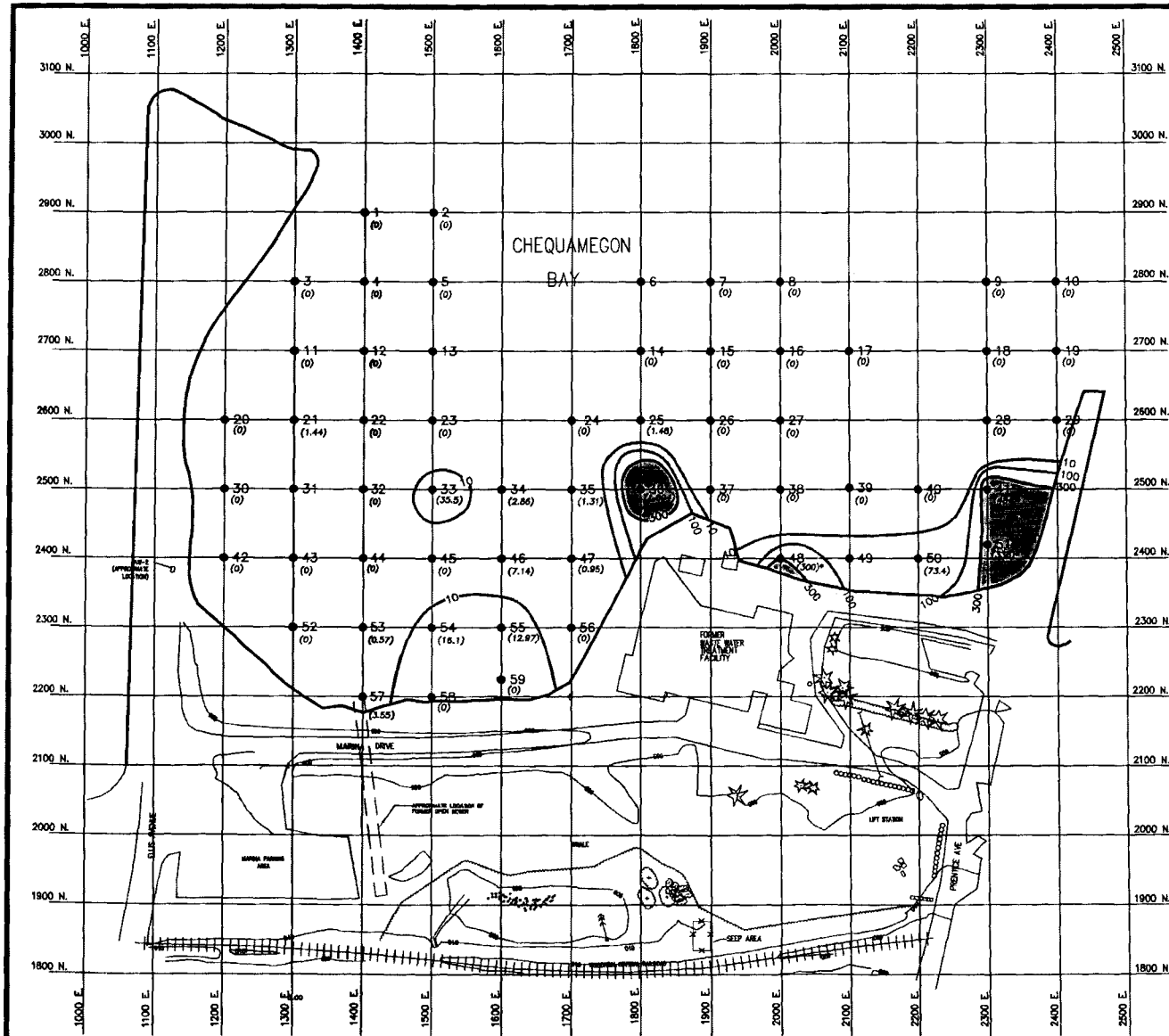
**NOTE:**  
 BASE MAP ON KREHER PARK FROM SEH DRAFT FEASIBILITY STUDY, DATED FEBRUARY 1996.  
 SVOC UNITS ARE REPORTED IN MG/KG DRY WEIGHT  
 AREA OF TOTAL SVOCs > 300 MG/KG = 5.51 ACRES  
 AREA OF TOTAL SVOCs > 1000 MG/KG = 2.50 ACRES

PROJECT: NSP/ASHLAND—LAKEFRONT SITE ASHLAND, WISCONSIN		
TITLE: FIGURE 3A TOTAL SVOCs AT 0-2 FT. INTERVAL CHEQUAMEGON BAY		
DRAWN BY: BRN	SCALE: 1"=160'	PROJ. NO. 05644-098
CHECKED BY: DPT	DATE: 02.MAY.01	SHEET 3 OF 19
APPROVED BY: DPT		
<b>URS</b> Dames & Moore		8900 E. TORVANCE DRIVE, SUITE J MILWAUKEE, WISCONSIN 53218 (800) 541-9918





FILE: S:\CADDFILES\NSP\05644088\0501\_FIGURE\_3D

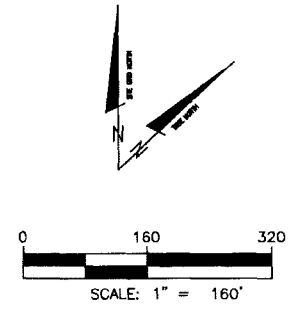
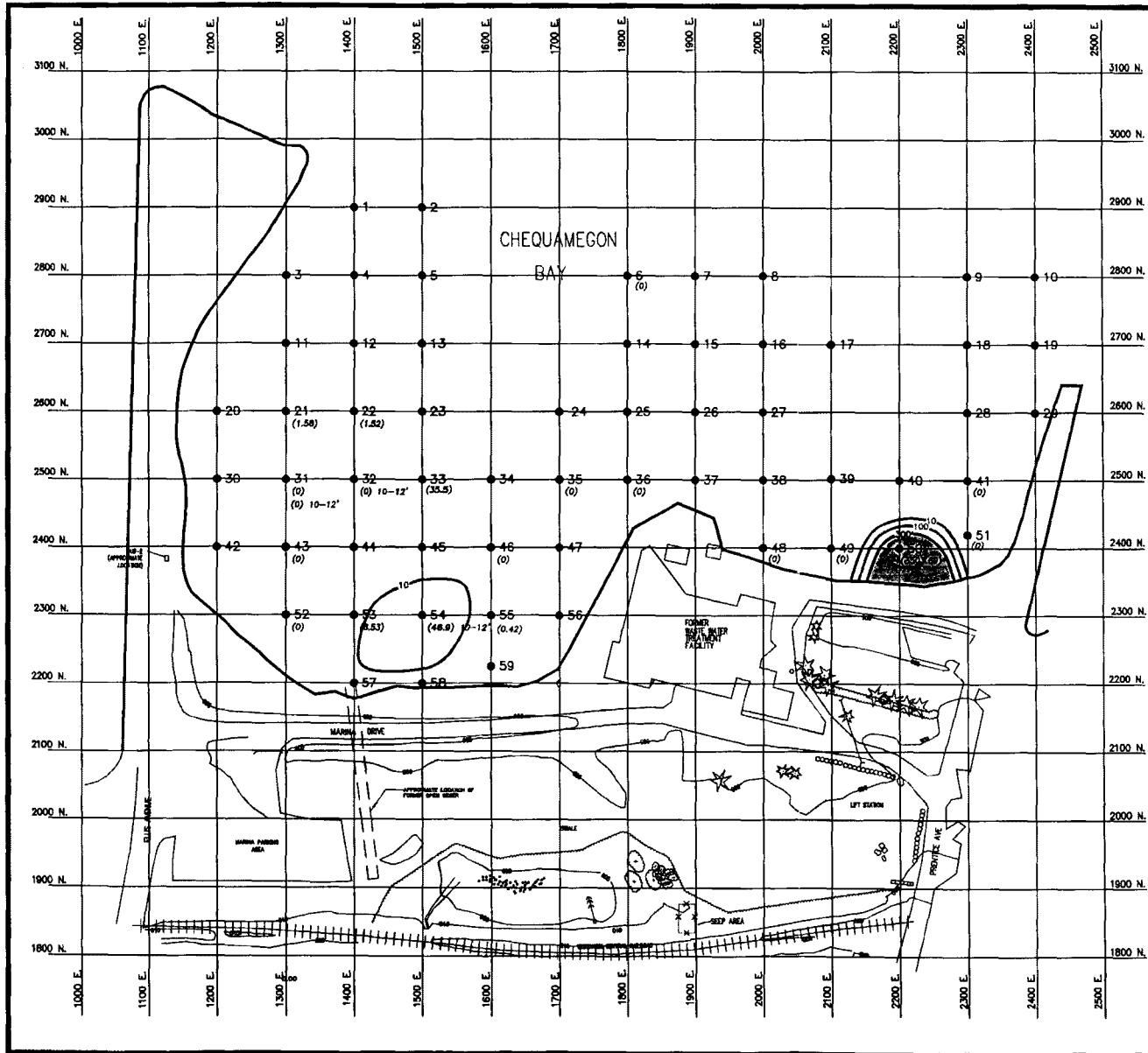


- LEGEND**
- 10 SEDIMENT SAMPLING LOCATION
  - SVOC ISOCONCENTRATION CONTOUR (MG/KG)
  - (1.1) SVOC CONCENTRATION (MG/KG) SAMPLE ANALYZED BY TEST AMERICA
  - (1.1)\* SVOC CONCENTRATION (MG/KG) SAMPLE ANALYZED BY META ENVIRONMENTAL
  - ++++ RAILROAD TRACKS
  - TOPOGRAPHIC CONTOUR (5' INTERVAL)
  - CULVERT
  - ★ PINE TREE
  - TREE
  - o o o o o SHRUB / HEDGE
  - MARSH

NOTE:  
 BASE MAP ON KREHER PARK FROM SEH DRAFT  
 FEASIBILITY STUDY, DATED FEBRUARY 1996.  
 SVOC UNITS ARE REPORTED IN MG/KG DRY WEIGHT  
 AREA OF TOTAL SVOCs > 300 MG/KG = 0.43 ACRES  
 AREA OF TOTAL SVOCs > 1000 MG/KG = 0.05 ACRES

PROJECT:	NSP/ASHLAND-LAKEFRONT SITE ASHLAND, WISCONSIN	
TITLE:	FIGURE 3D TOTAL SVOCs AT 6-8 FT. INTERVAL CHEQUAMEGON BAY	
DRAWN BY: BRN	SCALE: 1"=160'	PROJ. NO. 05644-050
CHECKED BY: DPT	DATE: 02.MAY.01	SHEET 8 OF 10
APPROVED BY: DPT		
<b>URS</b> Dames & Moore		8800 E TERRACE DRIVE, SUITE J MADISON, WISCONSIN 53718 (608) 244-8000

FILE: S:\CADFILES\NSP\05644098\0501\_FIGURE\_3E

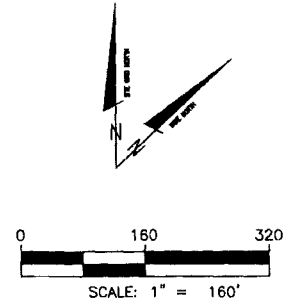
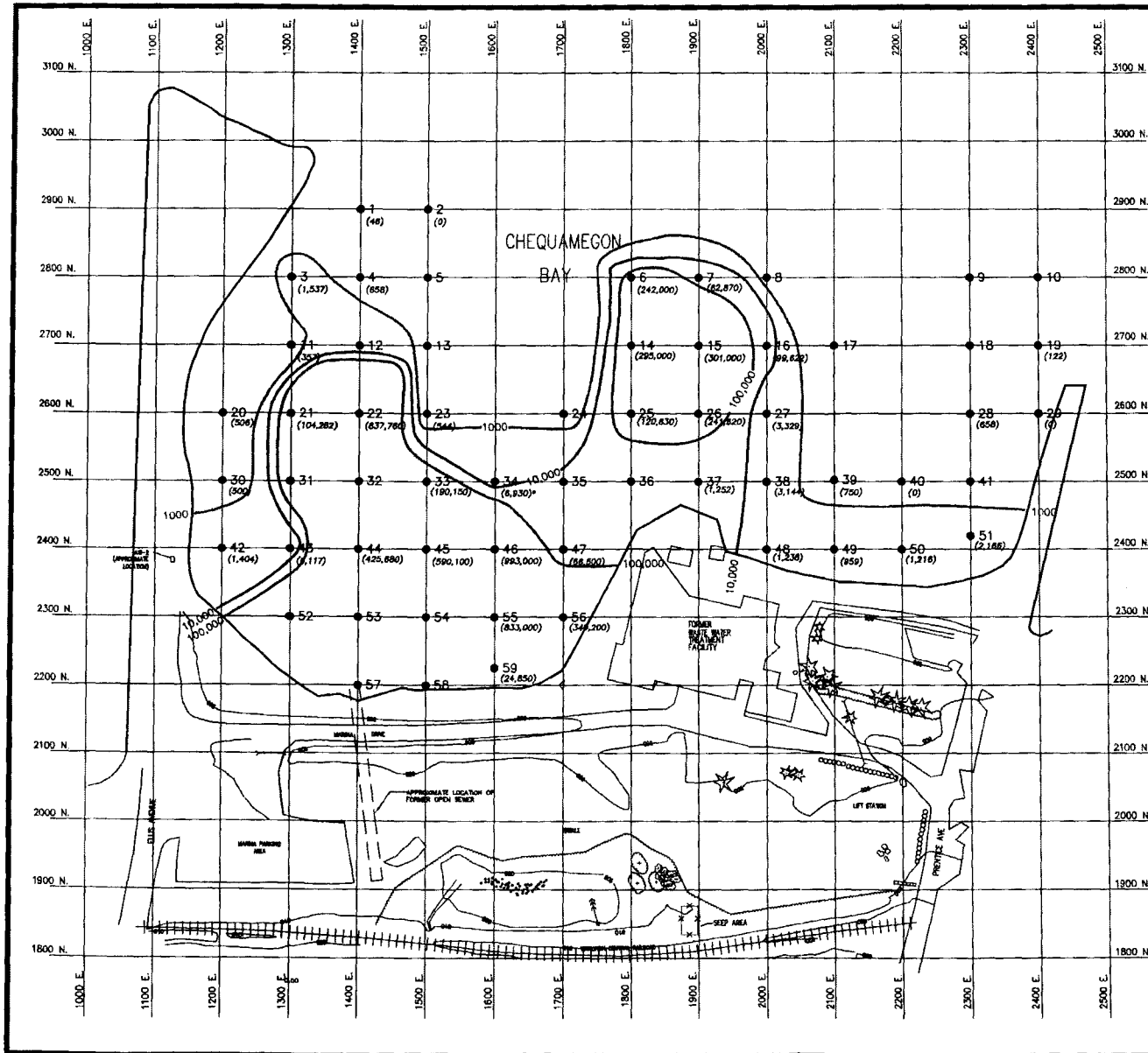


- LEGEND**
- 10 SEDIMENT SAMPLING LOCATION
  - SVOC ISOCONCENTRATION CONTOUR (MG/KG)
  - (1.1) SVOC CONCENTRATION (MG/KG)  
SAMPLE ANALYZED BY TEST AMERICA
  - (1.1)\* SVOC CONCENTRATION (MG/KG)  
SAMPLE ANALYZED BY META ENVIRONMENTAL
  - ++++ RAILROAD TRACKS
  - - - - TOPOGRAPHIC CONTOUR (5' INTERVAL)
  - CULVERT
  - ★ PINE TREE
  - TREE
  - SHRUB / HEDGE
  - MARSH

NOTE:  
 BASE MAP ON KREHLER PARK FROM SEH DRAFT  
 FEASIBILITY STUDY, DATED FEBRUARY 1996.  
 SVOC UNITS ARE REPORTED IN MG/KG DRY WEIGHT  
 AREA OF TOTAL SVOCs > 300 MG/KG = 0.17 ACRES  
 AREA OF TOTAL SVOCs > 1000 MG/KG = 0.05 ACRES

PROJECT: NSP/ASHLAND-LAKEFRONT SITE ASHLAND, WISCONSIN		
TITLE: FIGURE 3E TOTAL SVOCs AT 8-10 FT. INTERVAL CHEQUAMEGON BAY		
DRAWN BY: BRN	SCALE: 1"=160'	PROJ. NO. 05644-008
CHECKED BY: DPT	DATE: 02.MAY.01	SHEET 7 OF 10
APPROVED BY: DPT		
<b>URS</b> Dames & Moore		8800 E TOWHACK DRIVE, SUITE J MILWAUKEE, WISCONSIN 53218 (800) 244-8800

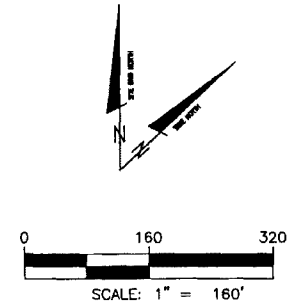
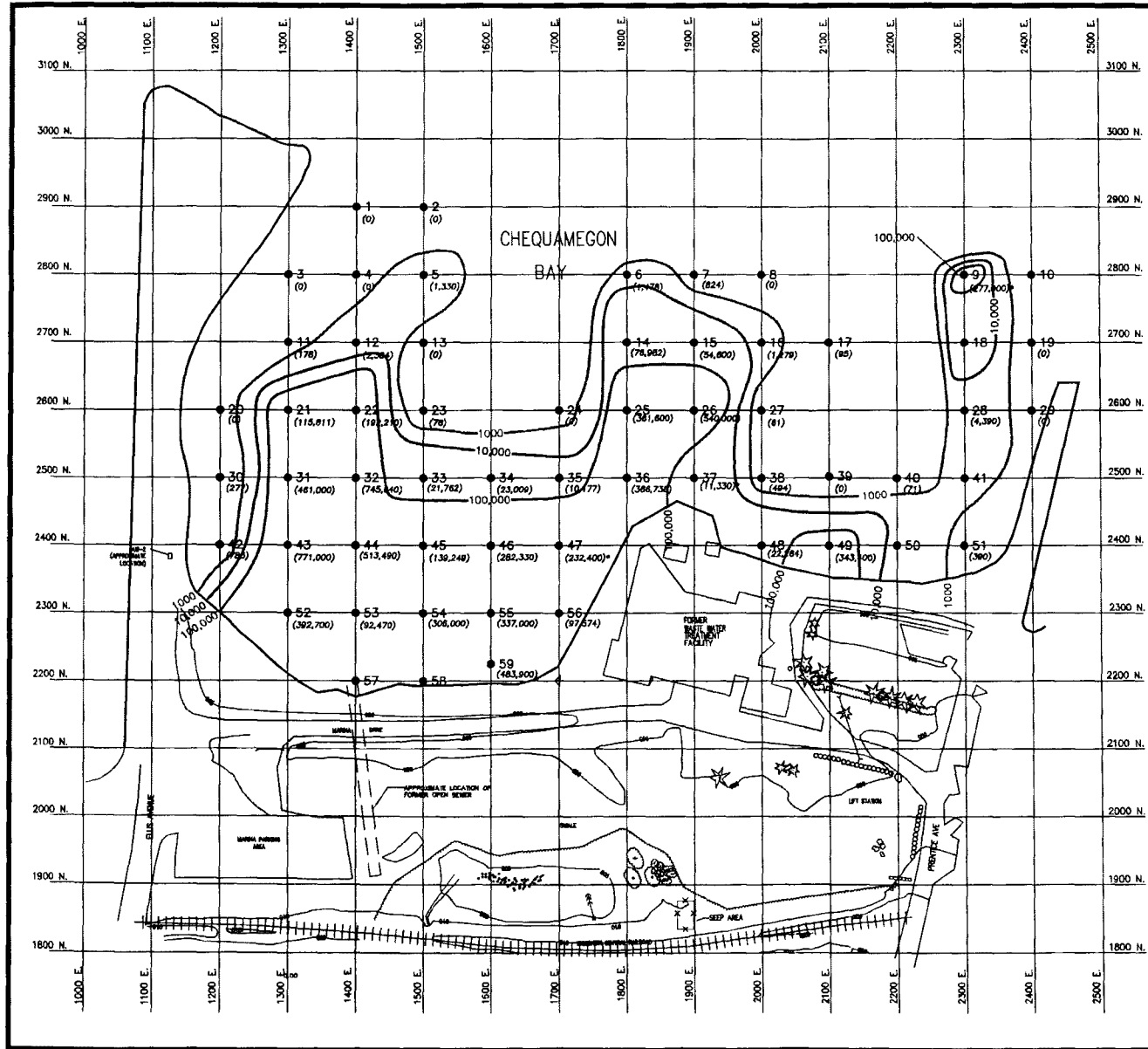
FILE: S:\CADFILES\NSP\05644098\0501\_FIGURE\_4A



PROJECT: NSP/ASHLAND—LAKEFRONT SITE ASHLAND, WISCONSIN		
TITLE: FIGURE 4A TOTAL VOCs AT 0-2 FT. INTERVAL CHEQUAMEGON BAY		
DRAWN BY: AMS	SCALE: 1"=160'	PROJ. NO. 05644-098
CHECKED BY: DPT	DATE: 02.MAY.01	SHEET 8 OF 10
APPROVED BY: DPT		
<b>URS</b> Dames & Moore		3850 S. TERRACE DRIVE, SUITE 2 MADISON, WISCONSIN 53718 (608) 244-8888



FILE: S:\CADFILES\NSP\05644\09B\0501\_FIGURE\_4B



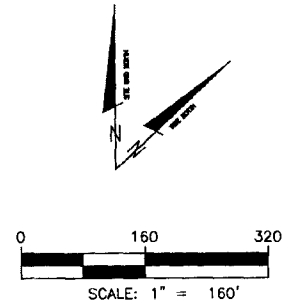
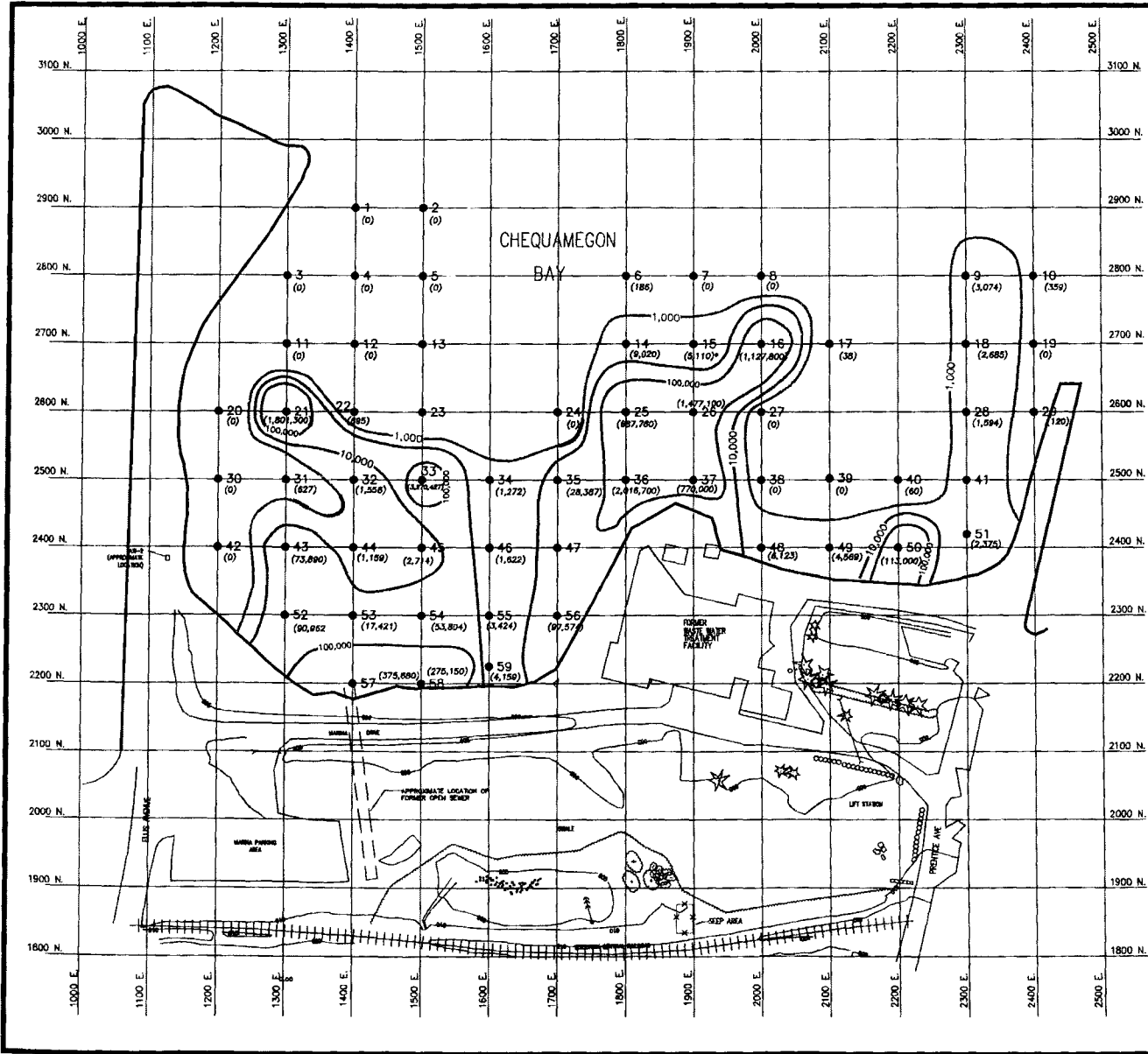
**LEGEND**

- 10 SEDIMENT SAMPLING LOCATION
- VOC ISOCONCENTRATION CONTOUR (ug/KG)
- (1.1) VOC CONCENTRATION (ug/KG)  
SAMPLE ANALYZED BY TEST AMERICA
- (1.1)\* VOC CONCENTRATION (ug/KG)  
SAMPLE ANALYZED BY META ENVIRONMENTAL
- ++++ RAILROAD TRACKS
- TOPOGRAPHIC CONTOUR (5' INTERVAL)
- ⌘ DULVERTY
- ⌘ PINE TREE
- ⌘ TREE
- ⌘ SHRUB / HEDGE
- ⌘ MARSH

NOTE:  
BASE MAP ON KREHER PARK FROM SEH DRAFT  
FEASIBILITY STUDY, DATED FEBRUARY 1996.  
VOC UNITS ARE REPORTED IN ug/KG DRY WEIGHT

PROJECT: NSP/ASHLAND-LAKEFRONT SITE ASHLAND, WISCONSIN		
TITLE: FIGURE 4B TOTAL VOCs AT 2-4 FT. INTERVAL CHEQUAMEGON BAY		
DRAWN BY: AMS	SCALE: 1"=160'	PROJ. NO. 05644-09B
CHECKED BY: DPT	DATE: 02.MAY.01	SHEET # OF 19
APPROVED BY: DPT		
<b>URS</b> Dames & Moore		
8000 E TERRACE DRIVE, SUITE J MILWAUKEE, WISCONSIN 53216 (414) 244-8400		

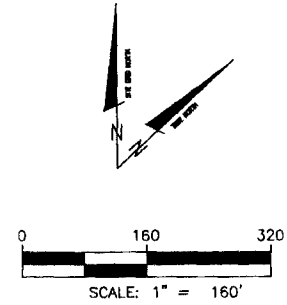
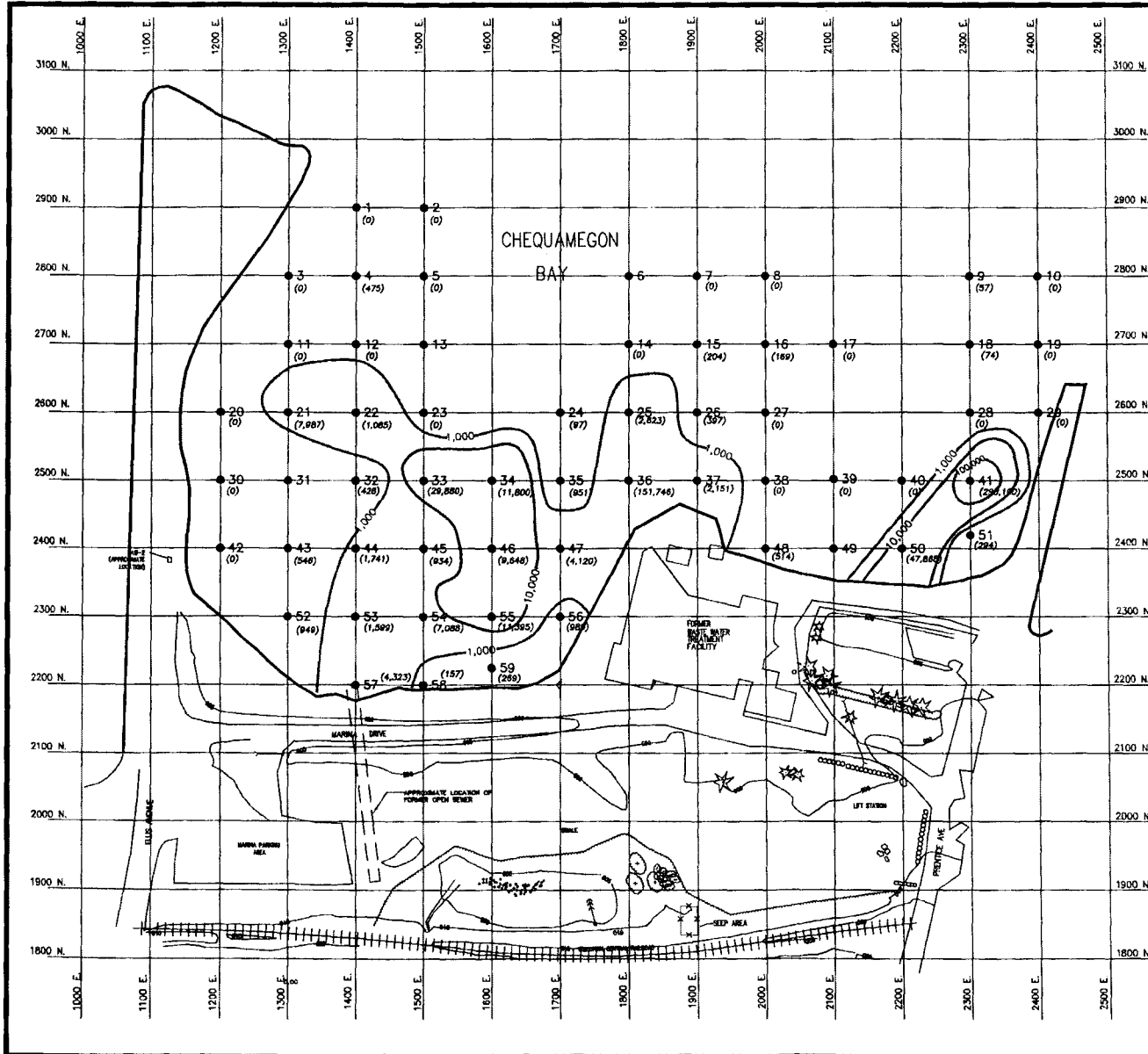
FILE: S:\CADFILES\WSP\05844098\0501\_FIGURE\_4C



- LEGEND**
- 10 SEDIMENT SAMPLING LOCATION
  - VOC ISOCONCENTRATION CONTOUR (ug/KG)
  - (1.1) VOC CONCENTRATION (ug/KG)  
SAMPLE ANALYZED BY TEST AMERICA
  - (1.1)\* VOC CONCENTRATION (ug/KG)  
SAMPLE ANALYZED BY META ENVIRONMENTAL
  - ++++ RAILROAD TRACKS
  - TOPOGRAPHIC CONTOUR (5' INTERVAL)
  - CULVERT
  - ★ PINE TREE
  - TREE
  - SHRUB / HEDGE
  - MARSH
- NOTE:  
 BASE MAP ON KREHER PARK FROM SEH DRAFT  
 FEASIBILITY STUDY, DATED FEBRUARY 1996.  
 VOC UNITS ARE REPORTED IN ug/KG DRY WEIGHT

PROJECT:	NSP/ASHLAND-LAKEFRONT SITE ASHLAND, WISCONSIN	
TITLE:	FIGURE 4C TOTAL VOCs AT 4-5 FT. INTERVAL CHEQUAMEGON BAY	
DRAWN BY: AMS	SCALE: 1"=160'	PROJ. NO. 05844-008
CHECKED BY: DPT	DATE: 02.MAY.01	SHEET 10 OF 10
APPROVED BY: DPT		
<b>URS</b> Dames & Moore		8880 E TERRACE DRIVE, SUITE J ASHLAND, WISCONSIN 54718 (708) 294-0088

FILE: S:\CAD\FILES\WSP\05644098\0501\_FIGURE\_4D

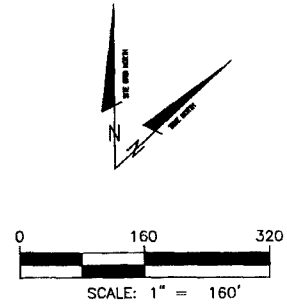
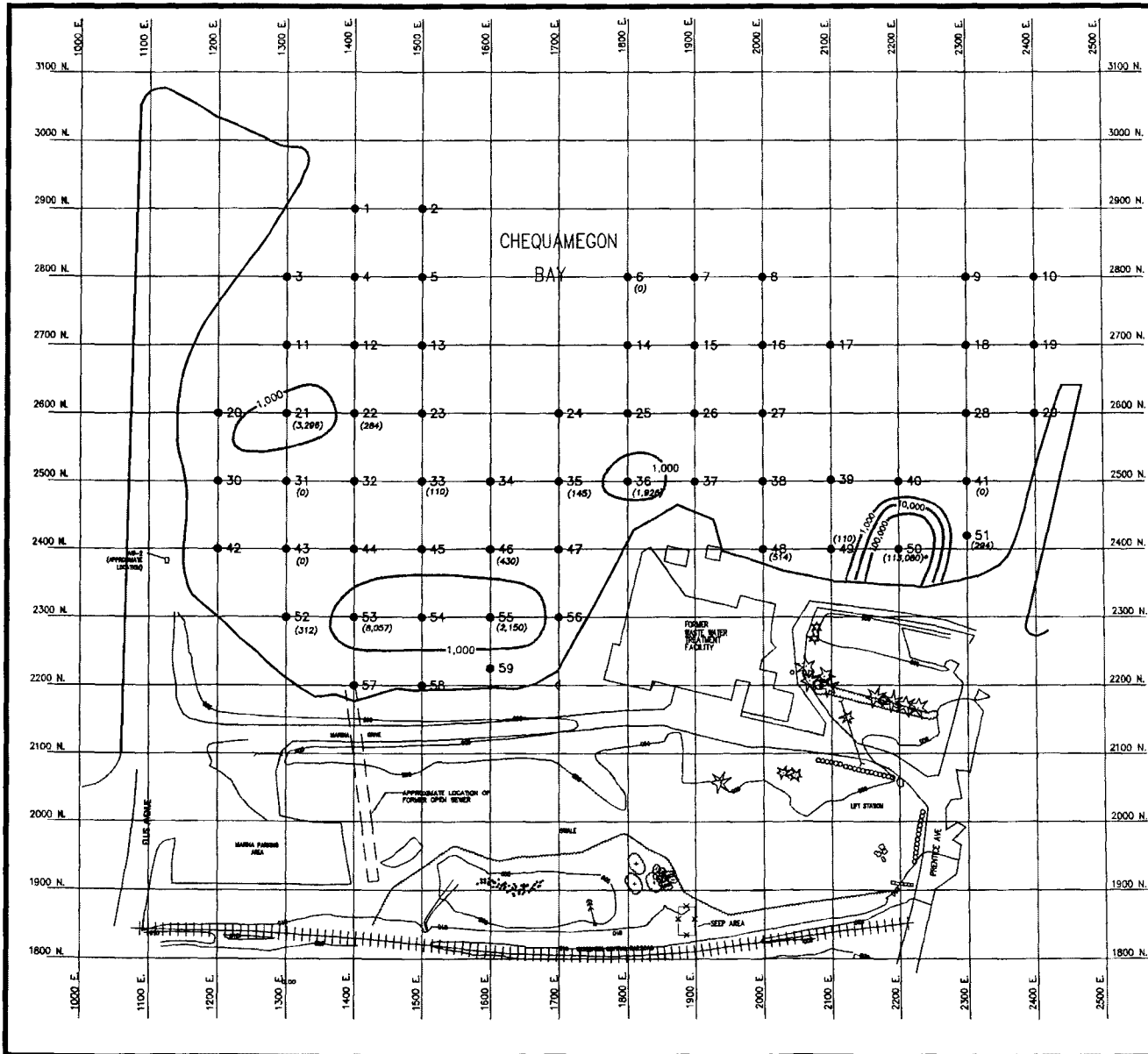


- LEGEND**
- 10 SEDIMENT SAMPLING LOCATION
  - VOC ISOCONCENTRATION CONTOUR (ug/KG)
  - (1.1) VOC CONCENTRATION (ug/KG)  
SAMPLE ANALYZED BY TEST AMERICA
  - (1.1)\* VOC CONCENTRATION (ug/KG)  
SAMPLE ANALYZED BY META ENVIRONMENTAL
  - ++++ RAILROAD TRACKS
  - TOPOGRAPHIC CONTOUR (5' INTERVAL)
  - CULVERT
  - ★ PINE TREE
  - TREE
  - o SHRUB / HEDGE
  - MARSH

NOTE:  
BASE MAP ON KREHER PARK FROM SEH DRAFT  
FEASIBILITY STUDY, DATED FEBRUARY 1996.  
VOC UNITS ARE REPORTED IN ug/KG DRY WEIGHT

PROJECT: NSP/ASHLAND-LAKEFRONT SITE ASHLAND, WISCONSIN		
TITLE: FIGURE 4D TOTAL VOCs AT 6-8 FT. INTERVAL CHEQUAMEGON BAY		
DRAWN BY: AMS	SCALE: 1"=160'	PROJ. NO. 05644-068
CHECKED BY: DPT	DATE: 02.MAY.01	SHEET 11 OF 19
APPROVED BY: DPT		
<b>URS</b> Dames & Moore		8800 E TOWNE DRIVE, SUITE J MILWAUKEE, WISCONSIN 53718 (414) 241-2886

FILE: S:\CADFILES\NSP\06644\098\0501\_FIGURE\_40



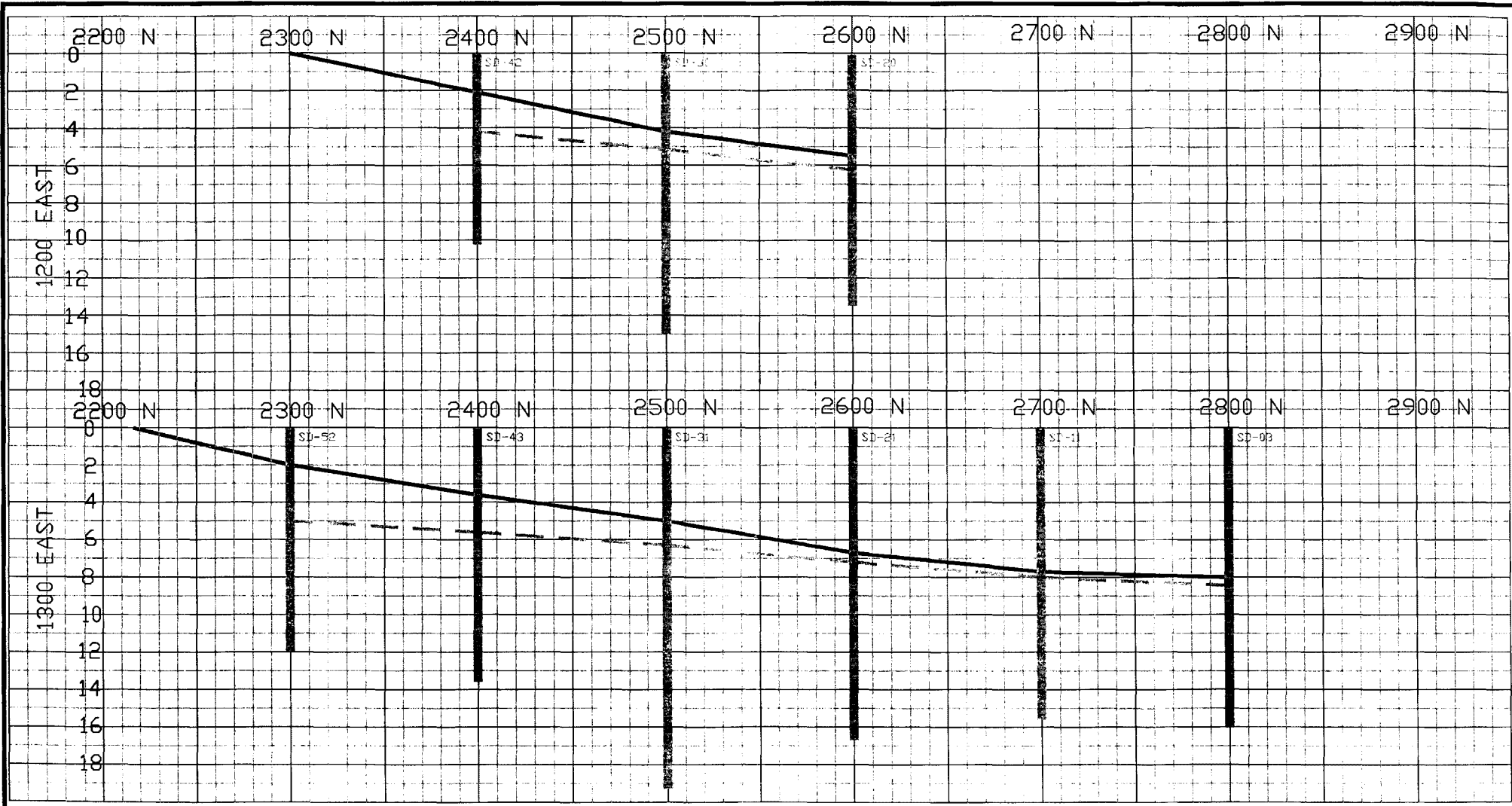
**LEGEND**

- 10 SEDIMENT SAMPLING LOCATION
- VOC ISOCONCENTRATION CONTOUR (ug/KG)
- (1.1) VOC CONCENTRATION (ug/KG)  
SAMPLE ANALYZED BY TEST AMERICA
- (1.1)\* VOC CONCENTRATION (ug/KG)  
SAMPLE ANALYZED BY META ENVIRONMENTAL
- ++++ RAILROAD TRACKS
- TOPOGRAPHIC CONTOUR (5' INTERVAL)
- Y CULVERT
- ★ PINE TREE
- TREE
- o SHRUB / HEDGE
- o MARSH

NOTE:  
BASE MAP ON KREHER PARK FROM SEH DRAFT  
FEASIBILITY STUDY, DATED FEBRUARY 1996.  
VOC UNITS ARE REPORTED IN ug/KG DRY WEIGHT

PROJECT: NSP/ASHLAND-LAKEFRONT SITE ASHLAND, WISCONSIN		
TITLE: FIGURE 4E TOTAL VOCs AT 8-10 FT. INTERVAL CHEQUAMEGON BAY		
DRAWN BY: AMS	SCALE: 1"=160'	PROJ. NO. 05644-098
CHECKED BY: DPT	DATE: 02.MAY.01	SHEET 12 OF 19
APPROVED BY: DPT		
<b>URS</b> Dames & Moore		8800 E TOWNE DRIVE, SUITE J MILWAUKEE, WISCONSIN 53218 (800) 244-2886

FILE: S:\CAD\FILES\NSP\05644\098\0501\_FIGURE\_5A

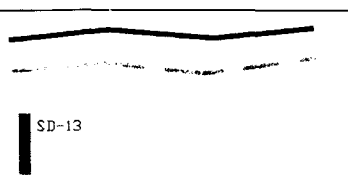


LEGEND

TOP OF SEDIMENT

BOTTOM OF WOOD LAYER

BORING LOCATION (TO DEPTH)



PROJECT: NSP/ASHLAND-LAKEFRONT SITE  
ASHLAND, WISCONSIN

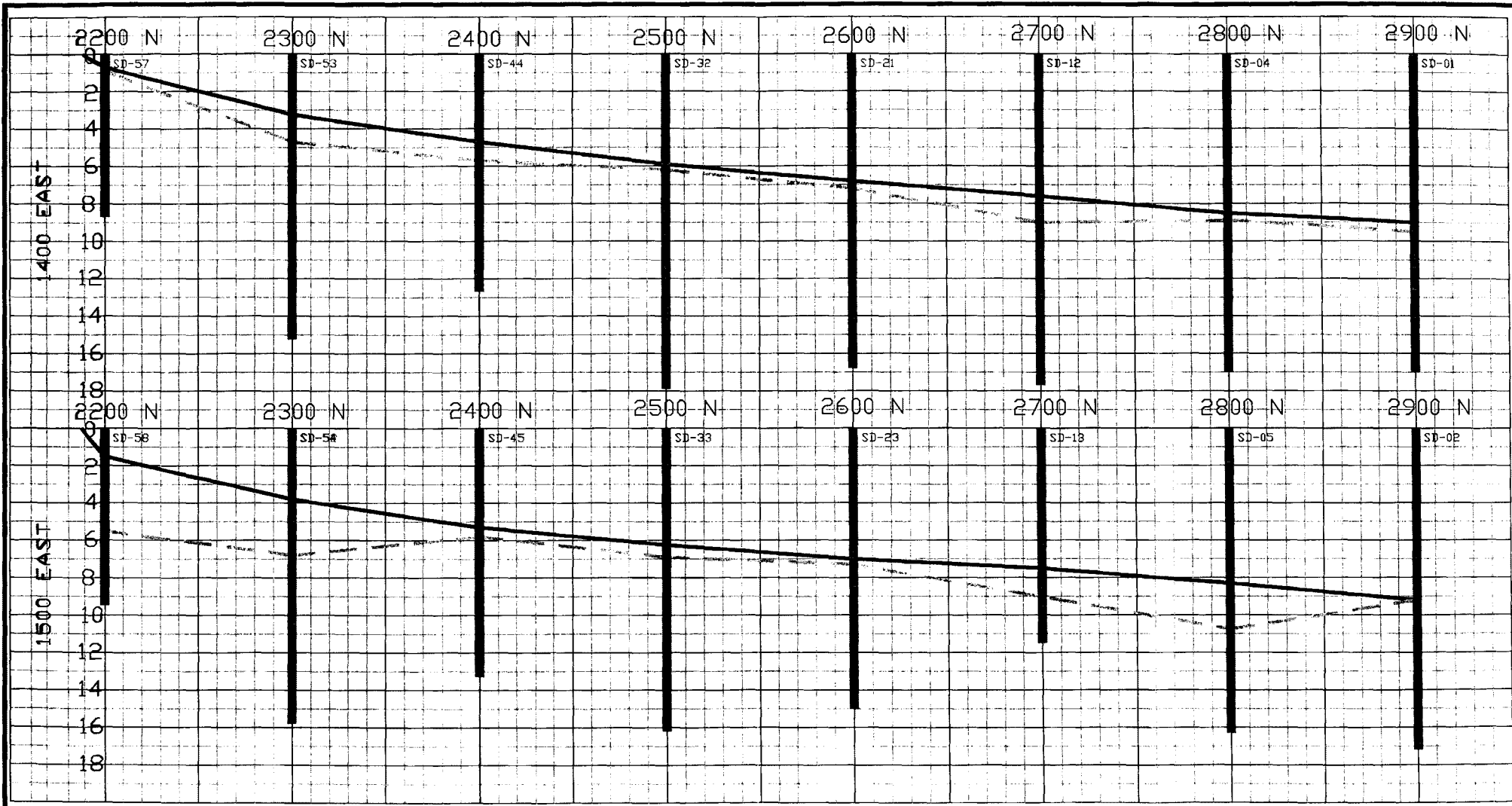
TITLE: FIGURE 5A  
PROFILE  
1200 EAST AND 1300 EAST

DRAWN BY: BRN	SCALE: AS SHOWN	PROJ. NO. 05644-098
CHECKED BY: DPT	DATE: 03.MAY.01	SHEET 13 OF 19
APPROVED BY: DPT		

**URS** Dames & Moore

8303 E TOWANE DRIVE, SUITE 1  
MADISON, WISCONSIN 53718  
(608) 244-8888

FILE: H:\CAD\FILES\NSP\05644\000\0500\_1\FIGURE 5B

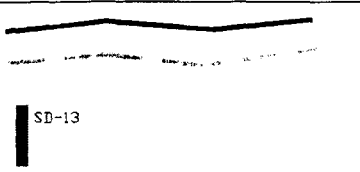


**LEGEND**

TOP OF SEDIMENT

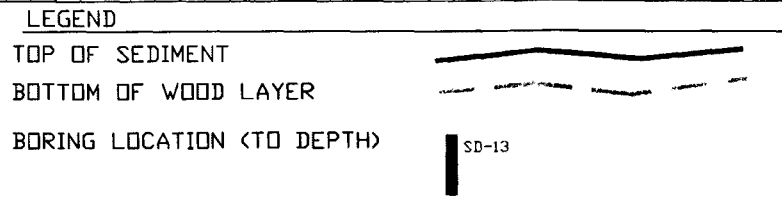
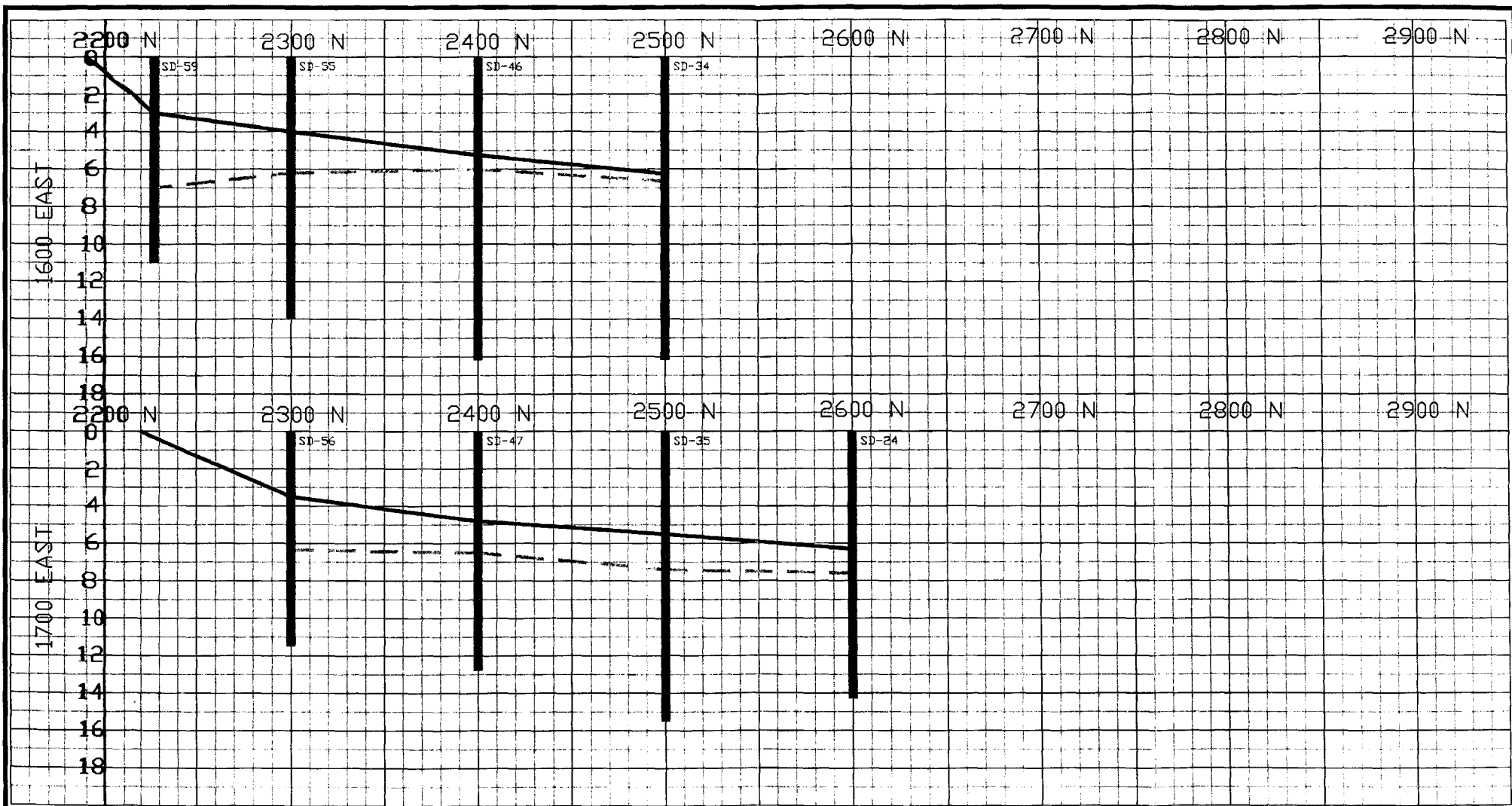
BOTTOM OF WOOD LAYER

BORING LOCATION (TO DEPTH)



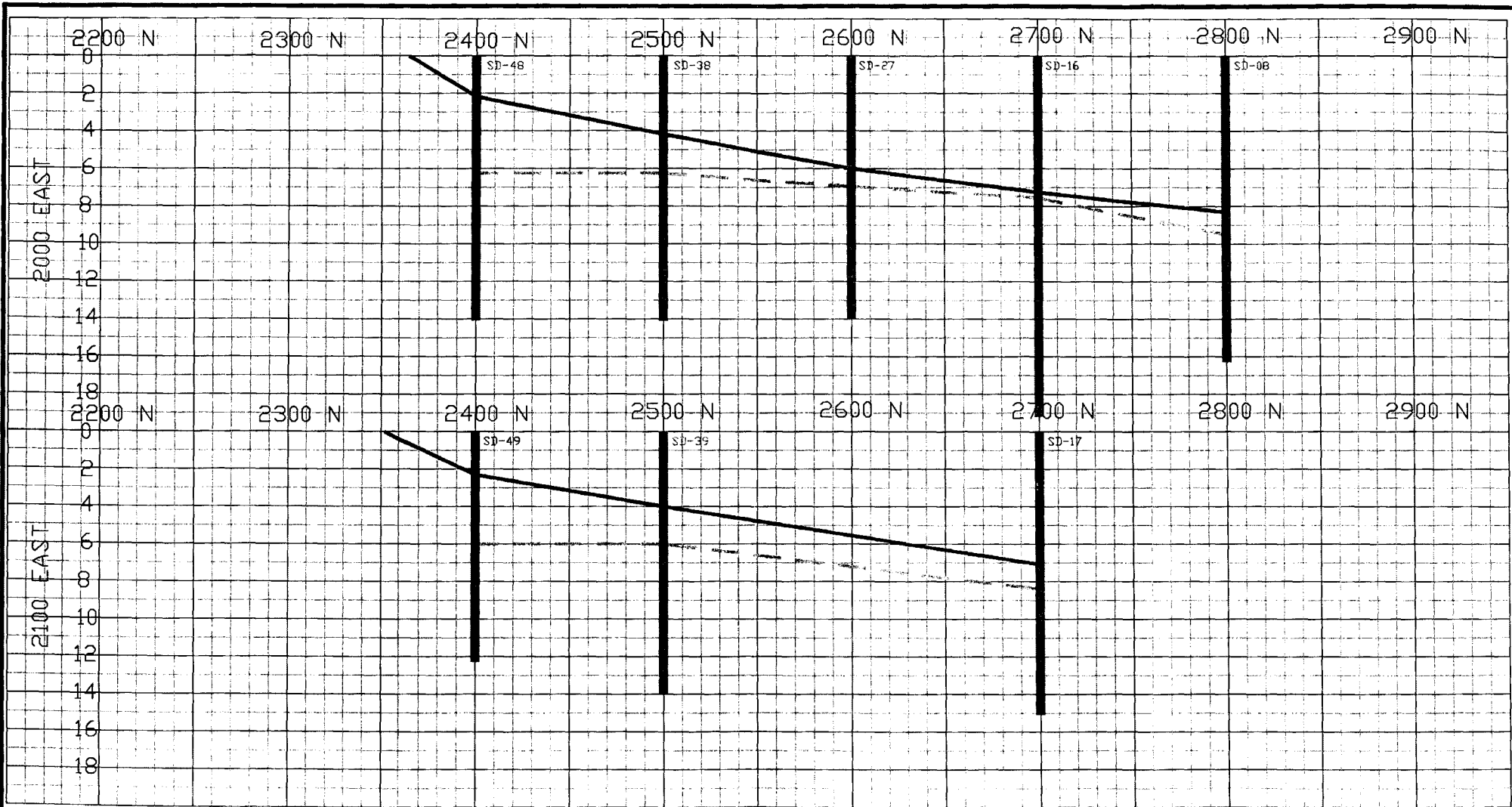
PROJECT: NSP/ASHLAND-LAKEFRONT SITE ASHLAND, WISCONSIN		
TITLE: FIGURE 5B PROFILE 1400 EAST AND 1500 EAST		
DRAWN BY: BPH	SCALE: AS SHOWN	PROJ. NO. 05644-098
CHECKED BY: DPT	DATE: 03.MAY.01	SHEET 14 OF 19
APPROVED BY: DPT		
<b>URS</b> James & Moore		4800 E. TORRANCE DRIVE, SUITE J MADISON, WISCONSIN 53718 (608) 244-8808

FILE: S:\CAD\FILES\NSP\05644098\0501\_FIGURE\_5C

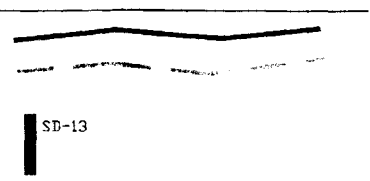


PROJECT: NSP/ASHLAND-LAKEFRONT SITE ASHLAND, WISCONSIN		
TITLE: FIGURE 5C PROFILE 1600 EAST AND 1700 EAST		
DRAWN BY: BRN	SCALE: AS SHOWN	PROJ. NO. 05644-098
CHECKED BY: DPT	DATE: 03.MAY.01	SHEET 13 OF 19
APPROVED BY: DPT		
<b>URS</b> Dames & Moore		6300 E FERRISS DRIVE, SUITE J MADISON, WISCONSIN 53718 (608) 244-8888

FILE: SACADPFILES\NSP\05644098\0501\_FIGURE\_5E



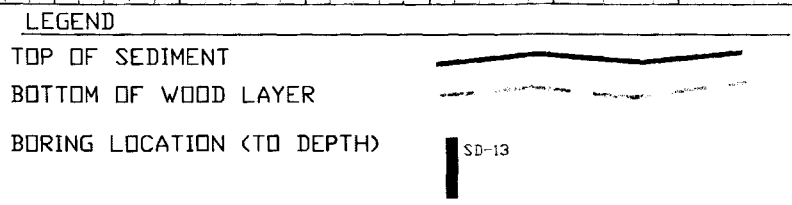
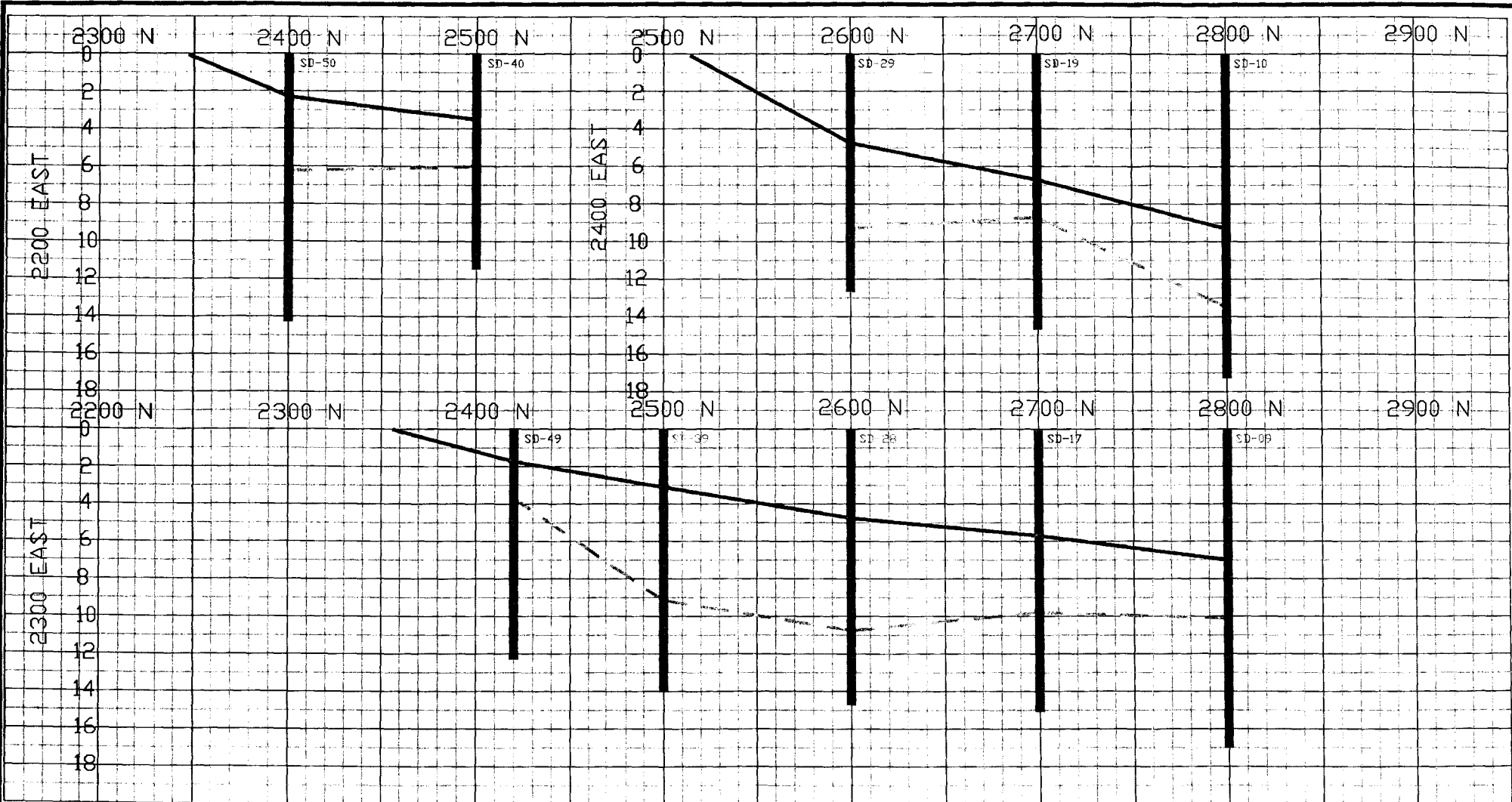
**LEGEND**  
 TOP OF SEDIMENT  
 BOTTOM OF WOOD LAYER  
 BORING LOCATION (TO DEPTH)



PROJECT: NSP/ASHLAND-LAKEFRONT SITE ASHLAND, WISCONSIN		
TITLE: FIGURE 5E PROFILE 2000 EAST AND 2100 EAST		
DRAWN BY: BRN	SCALE: AS SHOWN	PROJ. NO. 05644-098
CHECKED BY: DPT	DATE: 03.MAY.01	SHEET 17 OF 19
APPROVED BY: DPT		
<b>URS</b> Dames & Moore		2300 E TOWNE DRIVE, SUITE J MADISON, WISCONSIN 53718 (608) 244-8888

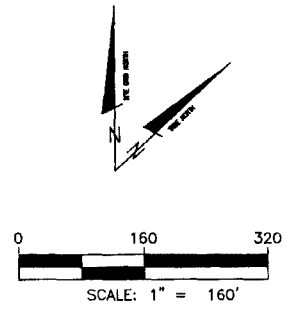
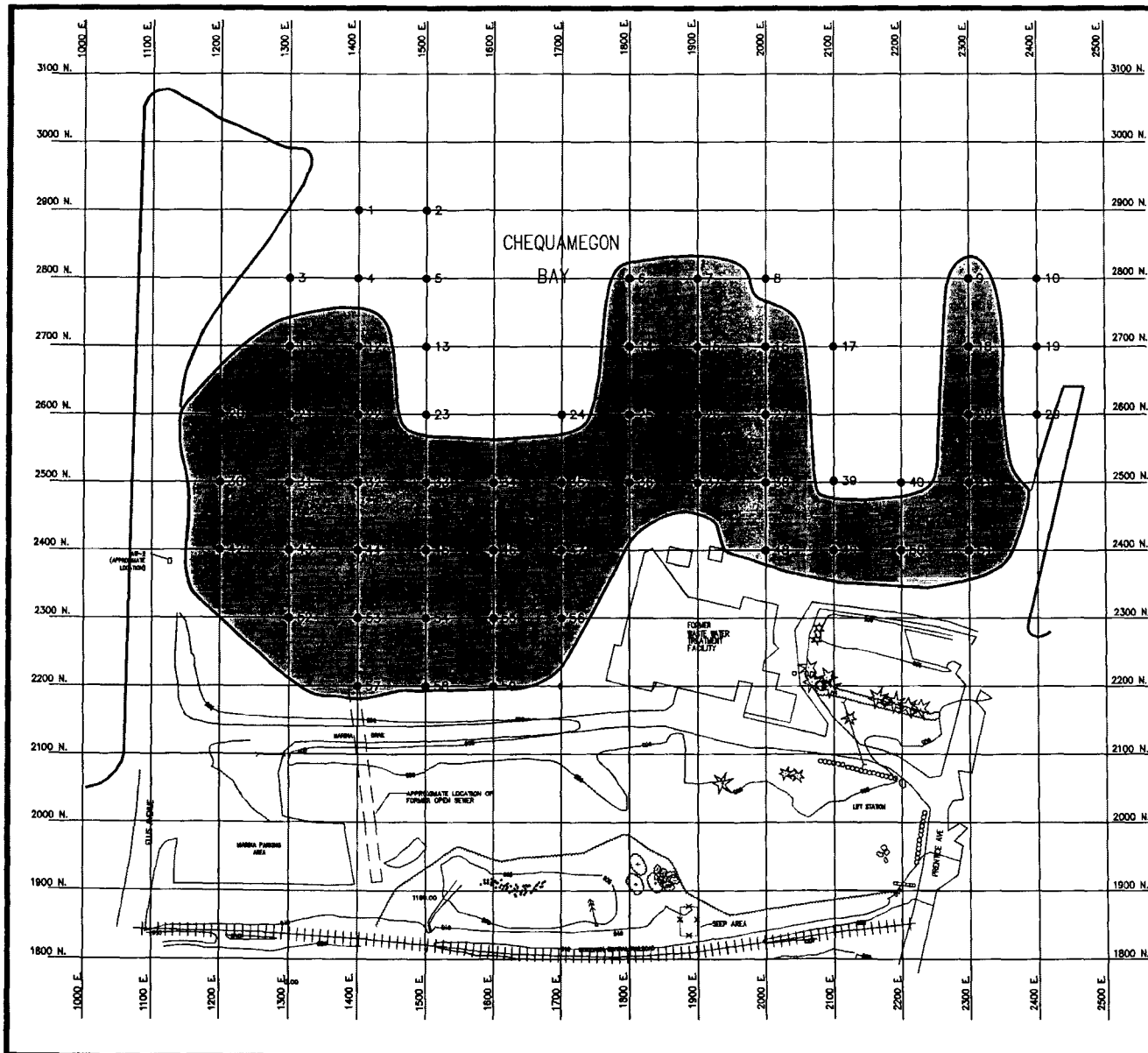


FILE: S:\CAD\FILES\NSP\0564498\0501\_FIGURE\_5F



PROJECT: NSP/ASHLAND-LAKEFRONT SITE ASHLAND, WISCONSIN		
TITLE: FIGURE 5F PROFILE 2200 EAST, 2300 EAST AND 2400 EAST		
DRAWN BY: BRN	SCALE: AS SHOWN	PROJ. NO. 05644-098
CHECKED BY: DPT	DATE: 03.MAY.01	SHEET 18 OF 19
APPROVED BY: DPT		
<b>URS</b> Dames & Moore		8300 E. TORWACE DRIVE, SUITE J MILWAUKEE, WISCONSIN 53718 (414) 354-2600

FILE: S:\CADFILES\NSP\05644098\0501\_FIGURE\_6



- LEGEND**
- 10 SEDIMENT SAMPLING LOCATION
  - LIMITS OF SVOC CONTAMINATION (>2.5 PPM)
  - |||| RAILROAD TRACKS
  - TOPOGRAPHIC CONTOUR (5' INTERVAL)
  - CULVERT
  - ★ PINE TREE
  - TREE
  - SHRUB / HEDGE
  - MARSH
- NOTE:  
 BASE MAP ON KREHER PARK FROM SEH DRAFT  
 FEASIBILITY STUDY, DATED FEBRUARY 1996.  
 SHADED AREA REPRESENTS SVOC CONTAMINATION  
 GREATER THAN 2.5 MG/KG DRY WEIGHT

PROJECT: NSP/ASHLAND-LAKEFRONT SITE ASHLAND, WISCONSIN		
TITLE: FIGURE 6 LATERAL EXTENT OF SEDIMENT CONTAMINATION CHEQUAMEGON BAY		
DRAWN BY: BRH	SCALE: 1"=160'	PROJ. NO. 05644-008
CHECKED BY: DPT	DATE: 04.MAY.01	SHEET 19 OF 19
APPROVED BY: DPT		
 Dames & Moore		
5800 E. TORVILLE DRIVE, SUITE 2 MADISON, WISCONSIN 53718 (608) 244-0000		

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**APPENDIX A**

**SOIL BORING LOGS**

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Route To:

- Solid Waste
- Wastewater
- Emergency Response
- Haz. Waste
- Underground Tanks
- Water Resources
- Other \_\_\_\_\_

Page 1 of 1

Facility / Project Name <b>NSP/Ashland Lakefront Site</b>		License/Permit/Monitoring Number _____		Boring Number <b>SD-01</b>	
Boring Drilled By (Firm name and name of crew chief) <b>Onsite Environmental, Tony Kapugi</b>		Date Drilling Started <u>02</u> / <u>28</u> / <u>01</u> MM DD YY		Date Drilling Completed <u>02</u> / <u>28</u> / <u>01</u> MM DD YY	
Common Well Name _____		Final Static Water Level _____ Feet MSL		Surface Elevation _____ Feet MSL	
Boring Location State Plane SW 1/4 of NW 1/4 of Section <u>33</u> T <u>48</u> N, R <u>4</u> E		Lat _____ Long _____		Local Grid Location (If Applicable) <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
County <b>Ashland</b>		DNR County Code <u>0</u> <u>2</u>		Civil Town / City / or Village <b>City of Ashland</b>	

Sample Number	Length Recovered (IN)	Blow Counts (N)	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					ROD/Comments	
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200		
			9	Water Depth to sediment = 9.0'											
1	14		9-10	WOOD CHIPS, variably sized, fibraceous, black.				0.7							
2	10		10-11	SAND, trace silt, medium dense, fine to medium grained, reddish brown.	SM			0.7							
			11-13	-As above, uniform, medium grained, trace black fragments.											
3	18		13-15	-As above, medium to coarse grained, fewer black fragments.				0.7							
4	12		15-17					0.6							
			17	EOB at 17.0' below water surface											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature \_\_\_\_\_ Firm **URS Corp., Madison, WI**

This form is authorized by Chapters 144.147 and 162, Wis. Stats. Completion of this report is mandatory. Penalties: Forfeit not less than \$10 nor more than \$4,000 for each violation. Fines not less than \$10 or more than \$100 or imprisoned not less than 30 days, or both for each violation. Each day of continued violation is a separate offense, pursuant to ss 144.99 and 162.06, Wis. Stats

**SOIL BORING LOG INFORMATION**

Form 4400-122

7-91

Route To:

- Solid Waste
- Wastewater
- Emergency Response

- Haz. Waste
- Underground Tanks
- Water Resources
- Other \_\_\_\_\_

Page 1 of 1

Facility / Project Name <b>NSP/Ashland Lakefront Site</b>		License/Permit/Monitoring Number _____		Boring Number <b>SD-02</b>	
Boring Drilled By (Firm name and name of crew chief) <b>Onsite Environmental, Tony Kapugi</b>		Date Drilling Started <u>02</u> / <u>28</u> / <u>01</u> MM / DD / YY	Date Drilling Completed <u>02</u> / <u>28</u> / <u>01</u> MM / DD / YY	Drilling Method <b>Track geoprobe</b>	
Common Well Name _____		Final Static Water Level _____ Feet MSL	Surface Elevation _____ Feet MSL	Borehole Diameter <b>2.0</b> inches	
Boring Location State Plane <b>SW</b> 1/4 of <b>NW</b> 1/4 of Section <b>33</b> T <b>48</b> N, R <b>4</b> E		Lat _____ Long _____	Local Grid Location (If Applicable) <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S _____ Feet <input type="checkbox"/> W _____ Feet		
County <b>Ashland</b>		DNR County Code <b>0 2</b>	Civil Town / City / or Village <b>City of Ashland</b>		

Sample Number	Length Recovered (ft)	Blow Counts (N)	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					ROD/Comments	
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200		
			9	Water Depth to sediment = 9.1'											
1	<1		10	SILT, sandy, soft, non-plastic, some wood chips, brownish-black to brown.	ML										
2	18.5		12	SAND, silty, loose, fine to medium grained, light brown.	SM			2.8							
3	21		14	-As above, increasing coarse sand with depth.				1.4							
4	17.5		16	CLAY, silty, some sand, stiff, low plasticity, light brown.	CL			1.1							
			17	EOB at 17.2' below water surface											
			18												
			19												
			20												
			21												

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Route To:

- Solid Waste
- Wastewater
- Emergency Response

- Haz. Waste
- Underground Tanks
- Water Resources
- Other \_\_\_\_\_

Facility / Project Name <b>NSP/Ashland Lakefront Site</b>		License/Permit/Monitoring Number _____		Boring Number <b>SD-03</b>	
Boring Drilled By (Firm name and name of crew chief) <b>Onsite Environmental, Tony Kapugi</b>		Date Drilling Started <u>03</u> / <u>01</u> / <u>01</u> MM / DD / YY	Date Drilling Completed <u>03</u> / <u>01</u> / <u>01</u> MM / DD / YY	Drilling Method <b>Track geoprobe</b>	
Common Well Name _____		Final Static Water Level _____ Feet MSL	Surface Elevation _____ Feet MSL	Borehole Diameter <b>2.0</b> inches	
Boring Location State Plane <b>SW</b> 1/4 of <b>NW</b> 1/4 of Section <b>33</b> T <b>48</b> N, R <b>4</b> E		Lat _____ Long _____	Local Grid Location (If Applicable) <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S _____ Feet <input type="checkbox"/> W _____ Feet		
County <b>Ashland</b>		DNR County Code <b>0 2</b>	Civil Town / City / or Village <b>City of Ashland</b>		

Sample Number	Length Recovered (IN)	Blow Counts (N)	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					ROD/Comments	
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200		
			8	Water Depth to sediment = 8.0'											
1	8		9	WOOD CHIPS, decomposed, fibraceous, black				5.3							
2	14		10	SILT, sandy, clayey, medium dense, medium to coarse sand, slightly plastic, light brown.	ML CL			1.4							
			11	-As above, less plasticity											
3	11		12	SAND, some silt, medium dense, coarse grained, some trace gravel fragments, dark brown.	SM			2.6							
4			14	CLAY, sandy, silty, trace gravel, very stiff, low plasticity, reddish brown.	CL			0.0							
			16	EOB at 16.0' below water surface											
			17												
			18												
			19												
			20												
			21												

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm <b>URS Corp., Madison, WI</b>
-----------	------------------------------------

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**SOIL BORING LOG INFORMATION**

Form 4400-122

7-91

Route To:

- Solid Waste
- Wastewater
- Emergency Response

- Haz. Waste
- Underground Tanks
- Water Resources
- Other \_\_\_\_\_

Page 1 of 1

Facility / Project Name <b>NSP/Ashland Lakefront Site</b>		License/Permit/Monitoring Number _____		Boring Number <b>SD-04</b>	
Boring Drilled By (Firm name and name of crew chief) <b>Onsite Environmental, Tony Kapugi</b>		Date Drilling Started <u>02</u> / <u>28</u> / <u>01</u> MM / DD / YY	Date Drilling Completed <u>02</u> / <u>28</u> / <u>01</u> MM / DD / YY	Drilling Method <b>Track geoprobe</b>	
Common Well Name _____		Final Static Water Level _____ Feet MSL	Surface Elevation _____ Feet MSL	Borehole Diameter <b>2.0</b> inches	
Boring Location State Plane N. _____ E S/C/N <b>SW</b> 1/4 of <b>NW</b> 1/4 of Section <b>33</b> T <b>48</b> N, R <b>4</b> E		Lat _____ Long _____	Local Grid Location (If Applicable) <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S _____ Feet <input type="checkbox"/> W _____ Feet		
County <b>Ashland</b>		DNR County Code <b>0 2</b>	Civil Town / City / or Village <b>City of Ashland</b>		

Sample Number	Length Recovered (ft)	Blow Counts (N)	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					ROD/Comments	
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200		
			8	Water Depth to sediment = 8.5'											
			9	WOOD CHIPS, decomposed, fibraceous, black				0.3							
1	9		10	SAND, silty, loose, fine to medium grained, reddish brown.	SM			0.6							
2	12		11	-As above - grades medium to coarse at 11.0 to 13.0 feet.				0.6							
3	17		14	CLAY, silty, very stiff, low plasticity, trace gravel fragments, reddish brown.	CL			0.6							
4	18		17	EOB at 17.0' below water surface											
			18												
			19												
			20												
			21												

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Route To:

- Solid Waste
- Wastewater
- Emergency Response
- Haz. Waste
- Underground Tanks
- Water Resources
- Other \_\_\_\_\_

Facility / Project Name <b>NSP/Ashland Lakefront Site</b>		License/Permit/Monitoring Number _____		Boring Number <b>SD-05</b>	
Boring Drilled By (Firm name and name of crew chief) <b>Onsite Environmental, Tony Kapugi</b>		Date Drilling Started <u>02</u> / <u>28</u> / <u>01</u> MM DD YY	Date Drilling Completed <u>02</u> / <u>28</u> / <u>01</u> MM DD YY	Drilling Method <b>Track geoprobe</b>	
Common Well Name _____		Final Static Water Level _____ Feet MSL	Surface Elevation _____ Feet MSL	Borehole Diameter <b>2.0</b> inches	
Boring Location State Plane _____ N. _____ E S/C/N <b>SW</b> 1/4 of <b>NW</b> 1/4 of Section <b>33</b> T <b>48</b> N.R. <b>4</b> E		Lat _____	Local Grid Location (If Applicable) <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S _____ Feet <input type="checkbox"/> W _____ Feet		
County <b>Ashland</b>		DNR County Code <b>0 2</b>	Civil Town / City / or Village <b>City of Ashland</b>		

Sample Number	Length Recovered (IN)	Blow Counts (N)	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					ROD/Comments	
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200		
			8	Water Depth to sediment = 8.3'											
			9	No recovery.											
1	0		10	WOOD CHIPS, decomposed, fibraceous, black				0.9							
2	8		11	SAND, silty, loose, fine to medium grained, light brown.	SM										
			12	-As above - some black particles to 0.5 cm, reddish brown.				0.5							
3	13		13												
			14												
4	24		15	CLAY, silty, sandy, low plasticity, reddish brown.	CL			0.4							
			16												
			17	EOB at 16.3' below water surface											
			18												
			19												
			20												
			21												

I hereby certify that the information on this form is true and correct to the best of my knowledge.

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**SOIL BORING LOG INFORMATION**

Form 4400-122

7-91

Route To:

- Solid Waste
- Wastewater
- Emergency Response

- Haz. Waste
- Underground Tanks
- Water Resources
- Other \_\_\_\_\_

Page 1 of 1

Facility / Project Name <b>NSP/Ashland Lakefront Site</b>		License/Permit/Monitoring Number _____		Boring Number <b>SD-06</b>	
Boring Drilled By (Firm name and name of crew chief) <b>Onsite Environmental, Tony Kapugi</b>		Date Drilling Started <u>03</u> / <u>06</u> / <u>01</u> MM DD YY	Date Drilling Completed <u>03</u> / <u>06</u> / <u>01</u> MM DD YY	Drilling Method <b>Track geoprobe</b>	
Common Well Name _____		Final Static Water Level _____ Feet MSL	Surface Elevation _____ Feet MSL	Borehole Diameter <b>2.0</b> inches	
Boring Location State Plane N _____ E S/C/N _____ SW 1/4 of NW 1/4 of Section <b>33</b> T <b>48</b> N, R <b>4</b> E			Local Grid Location (If Applicable) Lat _____ Long _____ <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S _____ Feet <input type="checkbox"/> W _____ Feet		
County <b>Ashland</b>		DNR County Code <b>0 2</b>	Civil Town / City / or Village <b>City of Ashland</b>		

Sample Number	Length Recovered (IN)	Blow Counts (N)	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RODI/Comments				
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200					
			6	Water - Depth to sediment = 8.5'														
1	7		9	WOOD CHIPS, variable in size, fibrous, sheen, black.				123.8										
2	5		11	SAND, trace silt, fine grained, medium dense, poorly graded, reddish brown, slight odor.				4.8										
3	10		13	-1" sandy silt layer	SP			2.5										
4	0		15	-no recovery				1.4										
5	20		17	CLAY, silty, sandy, trace gravel, stiff, medium plasticity, reddish brown.	CL													
			18															
			19	EOB at 18.5 ft. below water surface														

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Route To:

- Solid Waste
- Wastewater
- Emergency Response

- Haz. Waste
- Underground Tanks
- Water Resources
- Other \_\_\_\_\_

Facility / Project Name <b>NSP/Ashland Lakefront Site</b>		License/Permit/Monitoring Number _____		Boring Number <b>SD-07</b>	
Boring Drilled By (Firm name and name of crew chief) <b>Onsite Environmental, Tony Kapugi</b>		Date Drilling Started <b>03 / 06 / 01</b> MM DD YY		Date Drilling Completed <b>03 / 06 / 01</b> MM DD YY	
Drilling Method <b>Track geoprobe</b>		Final Static Water Level _____ Feet MSL		Surface Elevation _____ Feet MSL	
Common Well Name _____		Borehole Diameter <b>2.0</b> inches		Local Grid Location (If Applicable)	
Boring Location State Plane <b>SW</b> 1/4 of <b>NW</b> 1/4 of Section <b>33</b> T <b>48</b> N, R <b>4</b> E		Lat _____ Long _____		<input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
County <b>Ashland</b>		DNR County Code <b>0 2</b>		Civil Town / City / or Village <b>City of Ashland</b>	

Sample Number	Length Recovered (IN)	Blow Counts (N)	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					ROD/Comments				
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200					
			6															
			7	Water - Depth to sediment = 8.5'														
			8															
1	8		9	WOOD CHIPS, variable in size, fibrous, odor, black.														
			10	SAND, fine grained, loose, strong odor, visible product, reddish brown.				40.0										
2	17		11	-as above, increasing grain size to medium grained.	SP			2.2										
			12															
3	16		13	-fine to medium grained, trace silt, loose, reddish brown.				0.8										
			14	-1" thick silt seam @ 14.0 ft.														
4	21		15	CLAY, silty, sandy, stiff, medium plasticity, reddish brown.	CL			0.8										
			16															
			17	EOB at 16.5 ft. below water surface														
			18															
			19															

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**SOIL BORING LOG INFORMATION**

Form 4400-122

7-91

Route To:

- Solid Waste
- Wastewater
- Emergency Response
- Haz. Waste
- Underground Tanks
- Water Resources
- Other \_\_\_\_\_

Page 1 of 1

Facility / Project Name <b>NSP/Ashland Lakefront Site</b>		License/Permit/Monitoring Number _____		Boring Number <b>SD-08</b>	
Boring Drilled By (Firm name and name of crew chief) <b>Onsite Environmental, Tony Kapugi</b>		Date Drilling Started <u>03</u> / <u>06</u> / <u>01</u> MM DD YY		Date Drilling Completed <u>03</u> / <u>06</u> / <u>01</u> MM DD YY	
Common Well Name _____		Final Static Water Level _____ Feet MSL		Surface Elevation _____ Feet MSL	
Boring Location State Plane _____ N. _____ E S/C/N <b>SW</b> 1/4 of <b>NW</b> 1/4 of Section <b>33</b> T <b>48</b> N, R <b>4</b> E		Local Grid Location (If Applicable) <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W		Borehole Diameter <b>2.0</b> inches	
County <b>Ashland</b>		DNR County Code <b>0 2</b>		Civil Town / City / or Village <b>City of Ashland</b>	

Sample Number	Length Recovered (IN)	Blow Counts (N)	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					ROD/Comments				
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200					
			6															
			7	Water - Depth to sediment = 8.3														
1	5		8	WOOD CHIPS, variable in size, fibrous, black.				1.6										
2	12		10	SAND, trace silt, fine grained, loose, poorly graded, reddish brown.	SP			0.5										
			11	-fine to medium grained, loose, poorly graded, reddish brown.														
3	14		12					0.9										
			13															
4	20		14	-fine to coarse grained, loose, reddish brown	SP SW			0.7										
			15															
			16	CLAY, silty, sandy, stiff, medium plasticity, reddish brown	CL													
			17	EOB at 16.3 ft. below water surface														
			18															
			19															

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Signature \_\_\_\_\_ Firm **URS Corp., Madison, WI**

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Route To:

- Solid Waste
- Wastewater
- Emergency Response

- Haz. Waste
- Underground Tanks
- Water Resources
- Other \_\_\_\_\_

Page 1 of 1

Facility / Project Name <b>NSP/Ashland Lakefront Site</b>		License/Permit/Monitoring Number _____		Boring Number <b>SD-09</b>	
Boring Drilled By (Firm name and name of crew chief) <b>Onsite Environmental, Tony Kapugi</b>		Date Drilling Started <u>03</u> / <u>07</u> / <u>01</u> MM DD YY	Date Drilling Completed <u>03</u> / <u>07</u> / <u>01</u> MM DD YY	Drilling Method <b>Track geoprobe</b>	
DNR Field No. _____	Well Log No. _____	Common Well Name _____	Final Static Water Level _____ Feet MSL	Surface Elevation _____ Feet MSL	Borehole Diameter <b>2.0</b> inches
Boring Location State Plane N _____ E S/C/N		Lat _____		Local Grid Location (If Applicable)	
SW 1/4 of NW 1/4 of Section <b>33</b> T <b>48</b> N, R <b>4</b> E		Long _____		<input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
County <b>Ashland</b>		DNR County Code <b>0 2</b>	Civil Town / City / or Village <b>City of Ashland</b>		

Sample Number	Length Recovered (IN)	Blow Counts (N)	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					ROD/Comments	
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200		
			7	Water - Depth to sediment = 7.0 feet											
1	5		8	WOOD CHIPS, trace silt, variably sized, fibrous, black to brown.				1.1							
2	9		10	-As above, strong odor, visible product/sheen				66.7							
3	11		11	SAND, fine to medium grained, medium dense, strong odor, visible product/sheen reddish brown.	SP			10.7							
			12	-As above, trace coarse sand, slight odor.											
4	20		13	-As above, interbedded silt layers.	SM			2.4							
			14	SAND, fine to medium grained, medium dense, poorly graded, reddish brown.	SP										
5	24		15												
			16	CLAY, silty, sandy, trace gravel, stiff, medium plasticity, reddish brown.	CL			1.3							
			17	EOB at 17.0 ft. below water surface											
			18												
			19												
			20												

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature _____	Firm <b>URS Corp., Madison, WI</b>
-----------------	------------------------------------

This form is authorized by Chapters 144.147 and 162, Wis. Stats. Completion of this report is mandatory. Penalties: Forfeit not less than \$10 nor more than \$4,000 for each violation. Fines not less than \$10 or more than \$100 or imprisoned not less than 30 days, or both for each violation. Each day of continued violation is a separate offense, pursuant to ss 144.99 and 162.06, Wis. Stats

Route To:

- Solid Waste
- Wastewater
- Emergency Response

- Haz. Waste
- Underground Tanks
- Water Resources
- Other \_\_\_\_\_

Page 1 of 1

Facility / Project Name <b>NSP/Ashland Lakefront Site</b>		License/Permit/Monitoring Number _____		Boring Number <b>SD-10</b>	
Boring Drilled By (Firm name and name of crew chief) <b>Onsite Environmental, Tony Kapugi</b>		Date Drilling Started <b>03 / 08 / 01</b> MM DD YY	Date Drilling Completed <b>03 / 08 / 01</b> MM DD YY	Drilling Method <b>Track geoprobe</b>	
Common Well Name _____		Final Static Water Level _____ Feet MSL	Surface Elevation _____ Feet MSL	Borehole Diameter <b>2.0</b> inches	
Boring Location State Plane SW 1/4 of NW 1/4 of Section <b>33</b> T <b>48</b> N, R <b>4</b> E		Lat _____	Long _____	Local Grid Location (If Applicable) <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S _____ Feet <input type="checkbox"/> W _____ Feet	
County <b>Ashland</b>		DNR County Code <b>0 2</b>	Civil Town / City / or Village <b>City of Ashland</b>		

Sample Number	Length Recovered (IN)	Blow Counts (N)	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					ROD/Comments	
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200		
			9	Water - Depth to sediment = 9.3'											
1	0		10	No recovery from 9.3 to 13.3 ft.											
2	0		12												
3	19		13	WOOD CHIPS, silty, variable in size, fibrous, dark brown.											
			14	SAND, fine grained, with silt, dense, poorly graded, reddish brown, 13.5-14 ft.	SP			2.7							
			15	Fine to medium grained, trace silt, moderately dense, moderately graded, reddish brown, 14-15.4 ft.											
4	18		16	CLAY, silty, sandy, trace gravel, stiff, medium plasticity, reddish brown.	CL			0.0							
			17												
			18	EOB at 17.3 ft. below water surface											
			19												
			20												
			21												

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Route To:

- Solid Waste
- Wastewater
- Emergency Response

- Haz. Waste
- Underground Tanks
- Water Resources
- Other \_\_\_\_\_

Page 1 of 1

Facility / Project Name <b>NSP/Ashland Lakefront Site</b>		License/Permit/Monitoring Number _____		Boring Number <b>SD-11</b>	
Boring Drilled By (Firm name and name of crew chief) <b>Onsite Environmental, Tony Kapugi</b>		Date Drilling Started <u>03</u> / <u>01</u> / <u>01</u> MM DD YY	Date Drilling Completed <u>03</u> / <u>01</u> / <u>01</u> MM DD YY	Drilling Method <b>Track geoprobe</b>	
Common Well Name _____		Final Static Water Level _____ Feet MSL	Surface Elevation _____ Feet MSL	Borehole Diameter <b>2.0</b> inches	
Boring Location State Plane SW 1/4 of NW 1/4 of Section <u>33</u> T <u>48</u> N, R <u>4</u> E		Lat _____ Long _____	Local Grid Location (If Applicable) <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S _____ Feet <input type="checkbox"/> W _____ Feet		
County <b>Ashland</b>		DNR County Code <b>0 2</b>	Civil Town / City / or Village <b>City of Ashland</b>		

Sample Number	Length Recovered (IN)	Blow Counts (N)	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					ROD/Comments	
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200		
				Water - Depth to sediment = 7.6'											
1	11		8	WOOD CHIPS, decomposed, fibraceous, black.											
			9	SILT, sandy, stiff, low plasticity, trace gravel, reddish brown	ML			1.3							
2	13		10	-Becoming more coarse below 10 feet											
			11	-4" core sample collected				1.2							
3	17		12												
			13					1.9							
4	17		14	CLAY, silty, very stiff, low plasticity, trace sand, brown.	CL			2.2							
			15												
			16	EOB at 15.6' below water surface											
			17												
			18												
			19												
			20												
			21												

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature _____	Firm <b>URS Corp., Madison, WI</b>
-----------------	------------------------------------

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Route To:

- Solid Waste
- Wastewater
- Emergency Response

- Haz. Waste
- Underground Tanks
- Water Resources
- Other \_\_\_\_\_

Facility / Project Name <b>NSP/Ashland Lakefront Site</b>		License/Permit/Monitoring Number _____		Boring Number <b>SD-12</b>	
Boring Drilled By (Firm name and name of crew chief) <b>Onsite Environmental, Tony Kapugi</b>		Date Drilling Started <u>03</u> / <u>01</u> / <u>01</u> MM DD YY		Date Drilling Completed <u>03</u> / <u>01</u> / <u>01</u> MM DD YY	
Common Well Name _____		Final Static Water Level _____ Feet MSL		Surface Elevation _____ Feet MSL	
Boring Location State Plane <b>SW</b> 1/4 of <b>NW</b> 1/4 of Section <b>33</b> T <b>48</b> N, R <b>4</b> E		Lat _____ Long _____		Local Grid Location (If Applicable) <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
County <b>Ashland</b>		DNR County Code <b>0 2</b>		Civil Town / City / or Village <b>City of Ashland</b>	

Sample Number	Length Recovered (ft)	Blow Counts (N)	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					ROD/Comments	
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200		
			8	Water - Depth to sediment = 7.6'											
1	2		9	WOOD CHIPS, large block prevented recovery.											
2	13		10	SAND, silty, low to no plasticity, very fine grained, brown, slight odor.	SM			7.0							
			11	SAND, loose, coarse, brown, slight odor. Very coarse, gravelly below 11.5 feet, odor.	SP										
3	16		12	CLAY, sandy, very stiff, low plasticity, reddish brown.	CL			3.9							
			13	SILT, sandy, dense, fine grained sand, reddish brown.	ML										
4	13		14	-As above, very sandy				2.6							
			15												
5	15		16	SILT, clayey, sandy, stiff, medium plasticity, reddish brown.				5.4							
			17												
			18	EOB at 17.7' below water surface											
			19												
			20												
			21												

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Route To:

- Solid Waste
- Wastewater
- Emergency Response

- Haz. Waste
- Underground Tanks
- Water Resources
- Other \_\_\_\_\_

Page 1 of 1

Facility / Project Name <b>NSP/Ashland Lakefront Site</b>		License/Permit/Monitoring Number _____		Boring Number <b>SD-13</b>	
Boring Drilled By (Firm name and name of crew chief) <b>Onsite Environmental, Tony Kapugi</b>		Date Drilling Started <u>02</u> / <u>28</u> / <u>01</u> MM DD YY	Date Drilling Completed <u>02</u> / <u>28</u> / <u>01</u> MM DD YY	Drilling Method <b>Track geoprobe</b>	
Common Well Name _____		Final Static Water Level _____ Feet MSL	Surface Elevation _____ Feet MSL	Borehole Diameter <b>2.0</b> inches	
Boring Location State Plane _____ N _____ E S/C/N		Lat _____	Local Grid Location (If Applicable)		
SW 1/4 of NW 1/4 of Section <u>33</u> T <u>48</u> N, R <u>4</u> E		Long _____	_____ Feet	<input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	_____ Feet <input type="checkbox"/> E <input type="checkbox"/> W
County <b>Ashland</b>		DNR County Code <b>0 2</b>	Civil Town / City / or Village <b>City of Ashland</b>		

Sample Number	Length Recovered (IN)	Blow Counts (N)	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					ROD/Comments	
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200		
				Water - Depth to sediment = 7.5 ft.											
			8	No recovery from 7.5' to 9.5'											
1	0		9												
			10	SAND, trace silt, medium to coarse grained, medium dense, reddish brown, black staining on exterior of sample tube.	SP										
2	11		11	Refusal at 11.5 ft.				0.6							
			12	EOB at 11.5 ft. below water surface											
			13												
			14												
			15												
			16												
			17												
			18												
			19												
			20												

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Route To:

- Solid Waste
- Wastewater
- Emergency Response

- Haz. Waste
- Underground Tanks
- Water Resources
- Other \_\_\_\_\_

Page 1 of 1

Facility / Project Name <b>NSP/Ashland Lakefront Site</b>		License/Permit/Monitoring Number _____		Boring Number <b>SD-14</b>	
Boring Drilled By (Firm name and name of crew chief) <b>Onsite Environmental, Tony Kapugi</b>		Date Drilling Started <u>03</u> / <u>06</u> / <u>01</u> MM DD YY		Date Drilling Completed <u>03</u> / <u>06</u> / <u>01</u> MM DD YY	
Common Well Name _____		Final Static Water Level _____ Feet MSL		Surface Elevation _____ Feet MSL	
Boring Location State Plane <b>SW</b> 1/4 of <b>NW</b> 1/4 of Section <b>33</b> T <b>48</b> N, R <b>4</b> E		Lat _____ Long _____		Drilling Method <b>Track geoprobe</b>	
County <b>Ashland</b>		DNR County Code <b>0 2</b>		Civil Town / City / or Village <b>City of Ashland</b>	

Sample Number	Length Recovered (IN)	Blew Counts (N)	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					ROD/Comments				
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200					
			6															
			7	Water - Depth to sediment = 7.5'														
1	4		8	WOOD CHIPS, variable in size, fibrous, sheen, black.				8.1										
2	6		10	SAND, fine grained, medium dense, poorly graded, visible product, reddish brown.	SP			7.1										
3	15		12	-fine to coarse grained, loose, visible product, reddish brown.				38.1										
			13	-with silt														
4	13		14	CLAY, silty, sandy, stiff, medium plasticity, reddish brown.	CL			1.3										
			15															
			16	EOB at 15.5 ft. below water surface														
			17															
			18															
			19															

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**SOIL BORING LOG INFORMATION**

Form 4400-122

7-91

Route To:

- Solid Waste
- Wastewater
- Emergency Response
- Haz. Waste
- Underground Tanks
- Water Resources
- Other \_\_\_\_\_

Page 1 of 1

Facility / Project Name <b>NSP/Ashland Lakefront Site</b>		License/Permit/Monitoring Number _____		Boring Number <b>SD-15</b>	
Boring Drilled By (Firm name and name of crew chief) <b>Onsite Environmental, Tony Kapugi</b>		Date Drilling Started <u>03</u> / <u>06</u> / <u>01</u> M M D D Y Y	Date Drilling Completed <u>03</u> / <u>06</u> / <u>01</u> M M D D Y Y	Drilling Method <b>Track geoprobe</b>	
Common Well Name _____		Final Static Water Level _____ Feet MSL	Surface Elevation _____ Feet MSL	Borehole Diameter <b>2.0</b> inches	
Boring Location State Plane _____ N _____ E S/C/N			Lat _____	Local Grid Location (If Applicable)	
SW 1/4 of NW 1/4 of Section <b>33</b> T <b>48</b> N, R <b>4</b> E			Long _____	<input type="checkbox"/> N <input type="checkbox"/> E	<input type="checkbox"/> S <input type="checkbox"/> W
County <b>Ashland</b>		DNR County Code <b>0 2</b>	Civil Town / City / or Village <b>City of Ashland</b>		

Sample Number	Length Recovered (IN)	Blow Counts (N)	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					ROD/Comments			
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200				
			6														
			7	Water - Depth to sediment = 7.4'													
1	8		8	WOOD CHIPS, variable in size, fibrous, sheen, black.				66.8									
2	18		9	SAND, fine grained, loose to medium dense, poorly graded, reddish brown, strong odor.	SP			76.7									
			10	-trace visible product													
			11	-saturated with product, with wood chips													
3	10		12					102.5									
			13														
4	21		14	CLAY, silty, sandy, stiff, medium plasticity, reddish brown, slight odor.	CL			3.5									
			15														
5	24		16					1.8									
			17	SILT, trace clay, very stiff, non-plastic, reddish brown.	SM												
			18														
			19	EOB at 17.5 ft. below water surface													

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Signature \_\_\_\_\_ Firm **URS Corp., Madison, WI**

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- Route To:
- Solid Waste
  - Wastewater
  - Emergency Response
  - Haz. Waste
  - Underground Tanks
  - Water Resources
  - Other \_\_\_\_\_

Facility / Project Name <b>NSP/Ashland Lakefront Site</b>		License/Permit/Monitoring Number _____		Boring Number <b>SD-16</b>	
Boring Drilled By (Firm name and name of crew chief) <b>Onsite Environmental, Tony Kapugi</b>		Date Drilling Started <u>03</u> / <u>06</u> / <u>01</u> MM DD YY		Date Drilling Completed <u>03</u> / <u>06</u> / <u>01</u> MM DD YY	
Common Well Name _____		Final Static Water Level _____ Feet MSL		Surface Elevation _____ Feet MSL	
Boring Location State Plane _____ N. _____ E S/C/N <b>SW</b> 1/4 of <b>NW</b> 1/4 of Section <b>33</b> T <b>48</b> N.R. <b>4</b> E		Lat _____ Long _____		Local Grid Location (If Applicable) <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
County <b>Ashland</b>		DNR County Code <b>0 2</b>		Civil Town / City / or Village <b>City of Ashland</b>	

Sample Number	Length Recovered (ft)	Blow Counts (N)	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					ROD/Comments	
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200		
			7	Water - Depth to sediment = 7.25'											
1	8		8	WOOD CHIPS, variable in size, fibrous, sheen, visible product, black.				8.1							
2	16		10	SAND, very fine grained, medium dense, poorly graded, visible product in top 4", reddish brown.	SP			1.2							
3	19		12	-fine grained, medium dense, reddish brown.											
			13	-fine to coarse grained, with fine gravel, loose, product visible.				76.4							
4	21		14	SILT, sandy, firm, non-plastic, visible product, reddish brown.	SM			2.1							
			15	CLAY, silty, sandy, trace gravel, stiff, medium plasticity, reddish brown.											
5	1		16	-as above, visible product.	CL										
			17	-as above, no visible product.											
6	20		18	-as above, no visible product.				1.2							
			19	SILT, stiff, non-plastic, reddish brown.	SM										
			20	EOB at 19.2 ft. below water surface											

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Signature _____	Firm <b>URS Corp., Madison, WI</b>
-----------------	------------------------------------

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Route To:

- Solid Waste
- Wastewater
- Emergency Response

- Haz. Waste
- Underground Tanks
- Water Resources
- Other \_\_\_\_\_

Page 1 of 1

Facility / Project Name <b>NSP/Ashland Lakefront Site</b>		License/Permit/Monitoring Number _____		Boring Number <b>SD-17</b>	
Boring Drilled By (Firm name and name of crew chief) <b>Onsite Environmental, Tony Kapugi</b>		Date Drilling Started <b>03 / 07 / 01</b> MM DD YY	Date Drilling Completed <b>03 / 07 / 01</b> MM DD YY	Drilling Method <b>Track geoprobe</b>	
Boring Location State Plane <b>SW 1/4 of NW 1/4 of Section 33 T 48 N, R 4 E</b>	Common Well Name _____	Final Static Water Level _____ Feet MSL	Surface Elevation _____ Feet MSL	Borehole Diameter <b>2.0</b> inches	
County <b>Ashland</b>	DNR County Code <b>0 2</b>	Civil Town / City / or Village <b>City of Ashland</b>			

Sample Number	Length Recovered (IN)	Blow Counts (N)	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					ROD/Comments				
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200					
			5	Water - Depth to sediment = 7.1'														
1	0		7	No recovery														
2	15		9	SAND, fine to medium grained, medium dense, poorly graded, reddish brown, slight odor.				2.9										
3	18		11	-fine to coarse grained, trace gravel, medium dense.	SP													
			12	-fine to medium grained, medium dense, slight odor.				1.5										
4	21		13	-fine to coarse grained, loose.														
			14	CLAY, silty, sandy, stiff, medium plasticity, reddish brown.	CL			2.0										
			15															
			16	EOB at 15.1 ft. below water surface														
			17															
			18															

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Route To:

- Solid Waste
- Wastewater
- Emergency Response

- Haz. Waste
- Underground Tanks
- Water Resources
- Other \_\_\_\_\_

Page 1 of 1

Facility / Project Name <b>NSP/Ashland Lakefront Site</b>		License/Permit/Monitoring Number _____		Boring Number <b>SD-18</b>	
Boring Drilled By (Firm name and name of crew chief) <b>Onsite Environmental, Tony Kapugi</b>		Date Drilling Started <u>03</u> / <u>07</u> / <u>01</u> MM DD YY	Date Drilling Completed <u>03</u> / <u>07</u> / <u>01</u> MM DD YY	Drilling Method <b>Track geoprobe</b>	
Common Well Name _____		Final Static Water Level _____ Feet MSL	Surface Elevation _____ Feet MSL	Borehole Diameter <b>2.0</b> inches	
Boring Location State Plane _____ N _____ E S/C/N		Lat _____	Local Grid Location (If Applicable)		
SW 1/4 of NW 1/4 of Section <b>33</b> T <b>48</b> N, R <b>4</b> E		Long _____	_____ Feet	_____ Feet	<input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W
County <b>Ashland</b>		DNR County Code <b>0 2</b>	Civil Town / City / or Village <b>City of Ashland</b>		

Sample Number	Length Recovered (IN)	Blow Counts (N)	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					ROD/Comments	
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200		
			5	Water - Depth to sediment = 5.7'											
1	1		6	WOOD CHIPS, variable in size, fibrous, dark brown to tan.											
2	4		8	-sheen, visible product.				49.7							
3	12		10	SAND, fine to medium grained, medium dense, poorly graded, reddish brown, slight odor.				11.1							
4	21		12	-as above, no odor	SP			2.2							
5	12		14	CLAY, silty, sandy, soft, medium plasticity, reddish brown.	CL			4.6							
			15	SAND, fine grained, loose, cemented nodules of sand, reddish brown.	SP										
6	16		16	CLAY, silty, sandy, soft, medium plasticity, reddish brown.	CL			1.1							
			17	SILT, stiff, non plastic, reddish brown.	SM										
			18	EOB at 17.8 ft. below water surface											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature \_\_\_\_\_ Firm **URS Corp., Madison, WI**

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Route To:

- Solid Waste
- Wastewater
- Emergency Response
- Haz. Waste
- Underground Tanks
- Water Resources
- Other \_\_\_\_\_

Page 1 of 1

Facility / Project Name <b>NSP/Ashland Lakefront Site</b>		License/Permit/Monitoring Number _____		Boring Number <b>SD-19</b>	
Boring Drilled By (Firm name and name of crew chief) <b>Onsite Environmental, Tony Kapugi</b>		Date Drilling Started <u>03</u> / <u>08</u> / <u>01</u> MM DD YY		Date Drilling Completed <u>03</u> / <u>08</u> / <u>01</u> MM DD YY	
Common Well Name _____		Final Static Water Level _____ Feet MSL		Surface Elevation _____ Feet MSL	
Boring Location State Plane SW 1/4 of NW 1/4 of Section <u>33</u> T <u>48</u> N, R <u>4</u> E		Local Grid Location (If Applicable) <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S _____ Feet <input type="checkbox"/> W _____ Feet		Drilling Method <b>Track geoprobe</b>	
County <b>Ashland</b>		DNR County Code <b>0 2</b>		Civil Town / City / or Village <b>City of Ashland</b>	

Sample Number	Length Recovered (IN)	Blow Counts (N)	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					ROD/Comments	
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200		
			6	Water - Depth to sediment = 6.7'											
1	10		7	SAND, silty, fine to medium grained, moderately dense, moderately graded, dark brown, 6.7-8.7ft.				0.5							
			8	-wood chips present, 7.7-8.7 ft.											
			8	-trace silt, 8.7-10.7 ft.											
2	16		9		SP			0.9							
			10	SAND, fine to coarse grained with gravel, moderately dense, moderate to well graded, reddish brown, 10.7-11.3 ft.											
3	14		11	SILT, sandy, with wood chips, firm, non-plastic, reddish brown.	ML			0.0							
			12	SAND, fine to medium grained, moderately dense, moderately graded, reddish brown.	SP										
4	21		13					0.0							
			14	CLAY, silty, with sand, trace gravel, stiff, medium plasticity, reddish brown.	CL										
			15	EOB at 14.7 ft. below water surface											
			16												
			17												
			18												

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature \_\_\_\_\_

Firm **URS Corp., Madison, WI**

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Route To:

- Solid Waste
- Wastewater
- Emergency Response

- Haz. Waste
- Underground Tanks
- Water Resources
- Other \_\_\_\_\_

Page 1 of 1

Facility / Project Name <b>NSP/Ashland Lakefront Site</b>		License/Permit/Monitoring Number _____		Boring Number <b>SD-20</b>	
Boring Drilled By (Firm name and name of crew chief) <b>Onsite Environmental, Tony Kapugi</b>		Date Drilling Started <u>03</u> / <u>01</u> / <u>01</u> MM DD YY	Date Drilling Completed <u>03</u> / <u>01</u> / <u>01</u> MM DD YY	Drilling Method <b>Track geoprobe</b>	
Common Well Name _____		Final Static Water Level _____ Feet MSL	Surface Elevation _____ Feet MSL	Borehole Diameter <b>2.0</b> inches	
Boring Location State Plane _____ N. _____ E S/C/N		Lat _____	Local Grid Location (If Applicable)		
SW 1/4 of NW 1/4 of Section <u>33</u> T <u>48</u> N, R <u>4</u> E		Long _____	_____ Feet	_____ Feet	<input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W
County <b>Ashland</b>		DNR County Code <b>0 2</b>	Civil Town / City / or Village <b>City of Ashland</b>		

Sample Number	Length Recovered (IN)	Blow Counts (N)	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					ROD/Comments	
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200		
			5	Water - Depth to sediment = 5.5 ft.											
			6	Wood chips, fibrous, fragments, black.											
1	9		7	SAND, trace silt, fine-grained, loose, brown.	SP			1.0							
			8	-As above, gravel fragments below 8'.											
2	8.5		9					0.4							
			10	-As above, becoming finer with depth.											
3	19		11	CLAY, silty, sandy, some gravel, very stiff, low plasticity, brown.	CL			5.5							
			12												
4	24		13	SAND, silty, loose to medium dense, fine grained, brown.	SM			6.1							
			14												
			15	EOB at 13.5 ft. below water surface											
			16												
			17												
			18												

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Route To:

- Solid Waste
- Wastewater
- Emergency Response

- Haz. Waste
- Underground Tanks
- Water Resources
- Other \_\_\_\_\_

Facility / Project Name <b>NSP/Ashland Lakefront Site</b>		License/Permit/Monitoring Number _____		Boring Number <b>SD-21</b>	
Boring Drilled By (Firm name and name of crew chief) <b>Onsite Environmental, Tony Kapugi</b>		Date Drilling Started <b>03 / 01 / 01</b> MM DD YY		Date Drilling Completed <b>03 / 01 / 01</b> MM DD YY	
Common Well Name _____		Final Static Water Level _____ Feet MSL		Surface Elevation _____ Feet MSL	
Boring Location State Plane <b>SW</b> 1/4 of <b>NW</b> 1/4 of Section <b>33</b> T <b>48</b> N, R <b>4</b> E		Lat _____ Long _____		Local Grid Location (If Applicable) <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S _____ Feet <input type="checkbox"/> W _____ Feet	
County <b>Ashland</b>		DNR County Code <b>0 2</b>		Civil Town / City / or Village <b>City of Ashland</b>	

Sample Number	Length Recovered (IN)	Blow Counts (N)	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					ROD/Comments					
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200						
			5	Water - Depth to sediment = 6.7 ft.															
			7	WOOD CHIPS, fibraceous, black, odor.															
1	9		8	SILT, sandy, little clay, slight plasticity, firm, brown, odor.	ML			57											
			9	As above, increasing sand content.															
2	12		10	SAND, silty, gravelly, medium dense, dark brown.	SM			70											
			11	-As above, very gravelly, oily sheen/product present.	SP														
3	16		12	CLAY, silty, very stiff, low plasticity, some gray mottling, brown.	CL			132											
			13	SAND, gravelly, dense, coarse grained, dark brown, oily, strong odor.	SP														
4	22		14	CLAY, silty, very stiff, low plasticity, light brown.	CL			81.2											
			15																
5	14		16					40.6											
			17	EOB at 16.7 ft. below water surface															
			18																

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Route To:

- Solid Waste
- Wastewater
- Emergency Response

- Haz. Waste
- Underground Tanks
- Water Resources
- Other \_\_\_\_\_

Page 1 of 1

Facility / Project Name <b>NSP/Ashland Lakefront Site</b>		License/Permit/Monitoring Number _____		Boring Number <b>SD-22</b>	
Boring Drilled By (Firm name and name of crew chief) <b>Onsite Environmental, Tony Kapugi</b>		Date Drilling Started <b>03 / 01 / 01</b> MM / DD / YY	Date Drilling Completed <b>03 / 01 / 01</b> MM / DD / YY	Drilling Method <b>Track geoprobe</b>	
Common Well Name _____		Final Static Water Level _____ Feet MSL	Surface Elevation _____ Feet MSL	Borehole Diameter <b>2.0</b> inches	
Boring Location State Plane _____ N. _____ E S/C/N		Lat _____	Local Grid Location (If Applicable)		
SW 1/4 of NW 1/4 of Section <b>33</b> T <b>48</b> N, R <b>4</b> E		Long _____	_____ Feet	<input type="checkbox"/> N	<input type="checkbox"/> E
County <b>Ashland</b>	DNR County Code <b>0 2</b>	Civil Town / City / or Village <b>City of Ashland</b>			

Sample Number	Length Recovered (IN)	Blow Counts (N)	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					ROD/Comments					
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200						
			5	Water - Depth to sediment = 6.8 ft.															
1	10		7-8	WOOD CHIPS, fibraceous, odor, black. SAND, some silt, loose, wood fragments, fine grained, brown, odor	SP			122											
2	11		10-11					84											
3	17		12-13	CLAY, silty, trace gravel, very stiff, low plasticity, brown.	CL			12.7											
4	17		14-15	SAND, some silt, loose (below 13.8'), fine to medium grained, reddish brown, slight odor.	SP			5.1											
5	24		16-17	-As above, increasing silt content.				11.0											
			17	EOB at 16.8 ft. below water surface															

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Route To:

- Solid Waste
- Wastewater
- Emergency Response

- Haz. Waste
- Underground Tanks
- Water Resources
- Other \_\_\_\_\_

Facility / Project Name <b>NSP/Ashland Lakefront Site</b>		License/Permit/Monitoring Number _____		Boring Number <b>SD-23</b>	
Boring Drilled By (Firm name and name of crew chief) <b>Onsite Environmental, Tony Kapugi</b>		Date Drilling Started <u>03</u> / <u>01</u> / <u>01</u> MM DD YY	Date Drilling Completed <u>03</u> / <u>01</u> / <u>01</u> MM DD YY	Drilling Method <b>Track geoprobe</b>	
Common Well Name _____		Final Static Water Level _____ Feet MSL		Surface Elevation _____ Feet MSL	
Boring Location State Plane _____ N _____ E S/C/N		Lat _____		Local Grid Location (If Applicable) <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
SW 1/4 of NW 1/4 of Section <u>33</u> T <u>48</u> N, R <u>4</u> E		Long _____		_____ Feet _____ Feet	
County <b>Ashland</b>		DNR County Code <u>0</u> <u>2</u>		Civil Town / City / or Village <b>City of Ashland</b>	

Sample Number	Length Recovered (IN)	Blow Counts (N)	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					ROD/Comments					
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200						
			5	Water - Depth to sediment = 7.0 ft.															
			7	WOOD CHIPS, fibraceous, odor, black.															
1	7		8	SAND, silty, loose to medium dense, fine grained, poorly graded, brown.	SM			0.3											
			11	SILT, sandy, loose, brown.	ML														
2	11		12	SAND, little silt, loose, fine grained, brown.	SP			2.8											
3	16		15					3.5											
4	19		15					0.7											
			15	EOB at 15.0 ft. below water surface															

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Route To:

- Solid Waste
- Wastewater
- Emergency Response

- Haz. Waste
- Underground Tanks
- Water Resources
- Other \_\_\_\_\_

Page 1 of 1

Facility / Project Name <b>NSP/Ashland Lakefront Site</b>		License/Permit/Monitoring Number _____		Boring Number <b>SD-24</b>	
Boring Drilled By (Firm name and name of crew chief) <b>Onsite Environmental, Tony Kapugi</b>		Date Drilling Started <u>03</u> / <u>05</u> / <u>01</u> MM DD YY		Date Drilling Completed <u>03</u> / <u>05</u> / <u>01</u> MM DD YY	
Common Well Name _____		Final Static Water Level _____ Feet MSL		Surface Elevation _____ Feet MSL	
Boring Location State Plane _____ N. _____ E S/C/N		Lat _____		Local Grid Location (If Applicable) <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
SW 1/4 of NW 1/4 of Section <u>33</u> T <u>48</u> N, R <u>4</u> E		Long _____		_____ Feet _____ Feet	
County <b>Ashland</b>		DNR County Code <u>0</u> <u>2</u>		Civil Town / City / or Village <b>City of Ashland</b>	

Sample Number	Length Recovered (IN)	Blow Counts (N)	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					ROD/Comments	
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200		
			5	Water - Depth to sediment = 6.3'											
			6												
1	0		7	No recovery											
			8												
2	7		9	SAND, fine to medium grained, little silt, poorly graded, loose, brown.	SP			0.2							
			10	-coarse, some gravel, dense, brown.											
3	16		11	CLAY, silty, stiff, moderate plasticity, reddish brown.	CL			0.4							
			12												
4	11		13	SILT, sandy, very fine grained, interbedded layers of very fine sand, dense to hard, reddish brown.	ML			0.0							
			14												
			15	EOB at 14.3 ft. below water surface											
			16												
			17												
			18												

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**SOIL BORING LOG INFORMATION**

Form 4400-122

7-91

Route To:

- Solid Waste
- Wastewater
- Emergency Response

- Haz. Waste
- Underground Tanks
- Water Resources
- Other \_\_\_\_\_

Page 1 of 1

Facility / Project Name <b>NSP/Ashland Lakefront Site</b>		License/Permit/Monitoring Number _____		Boring Number <b>SD-25</b>	
Boring Drilled By (Firm name and name of crew chief) <b>Onsite Environmental, Tony Kapugi</b>		Date Drilling Started <u>03</u> / <u>06</u> / <u>01</u> MM DD YY		Date Drilling Completed <u>03</u> / <u>06</u> / <u>01</u> MM DD YY	
Common Well Name _____		Final Static Water Level _____ Feet MSL		Surface Elevation _____ Feet MSL	
Boring Location State Plane _____ N. _____ E S/C/N		Lat _____		Local Grid Location (If Applicable) <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S _____ Feet <input type="checkbox"/> W	
SW 1/4 of NW 1/4 of Section <u>33</u> T <u>48</u> N, R <u>4</u> E		County <b>Ashland</b>		DNR County Code <b>0 2</b>	
				Civil Town / City / or Village <b>City of Ashland</b>	

Sample Number	Length Recovered (IN)	Blow Counts (N)	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					ROD/Comments	
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200		
			6	Water - Depth to sediment = 6.3'											
1	12		7	WOOD CHIPS, variable in size, fibrous, sheen, product visible, black.											
			8	SAND, fine to medium grained, loose, poorly graded, brown, sheen, visible product.				95.7							
2	15		9		SP			77.4							
			10	-fine to coarse grained, loose, visible product.				71.1							
3	15		11	SILT, sandy, stiff, non-plastic, slight odor, reddish brown.	ML			10.7							
			12												
4	20		13	SAND, silty, fine to very fine grained, poorly graded, dense, sheen, strong odor, reddish brown.	SM			5.1							
			14	CLAY, silty, stiff, medium plasticity, reddish brown, with interbedded silt layers.	CL										
5	16		15	SILT, sandy, firm, non-plastic, reddish brown.	SM			2.3							
			16												
			17	EOB at 16.3 ft. below water surface											
			18												
			19												

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature \_\_\_\_\_ Firm **URS Corp., Madison, WI**

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Route To:

- Solid Waste
- Wastewater
- Emergency Response

- Haz. Waste
- Underground Tanks
- Water Resources
- Other \_\_\_\_\_

Page 1 of 1

Facility / Project Name <b>NSP/Ashland Lakefront Site</b>		License/Permit/Monitoring Number _____		Boring Number <b>SD-26</b>	
Boring Drilled By (Firm name and name of crew chief) <b>Onsite Environmental, Tony Kapugi</b>		Date Drilling Started <u>03</u> / <u>07</u> / <u>01</u> MM DD YY		Date Drilling Completed <u>03</u> / <u>07</u> / <u>01</u> MM DD YY	
Common Well Name _____		Final Static Water Level _____ Feet MSL		Surface Elevation _____ Feet MSL	
Boring Location State Plane SW 1/4 of NW 1/4 of Section <u>33</u> T <u>48</u> N, R <u>4</u> E		Lat _____ Long _____		Local Grid Location (If Applicable) <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
County <b>Ashland</b>		DNR County Code <u>0</u> <u>2</u>		Civil Town / City / or Village <b>City of Ashland</b>	

Sample Number	Length Recovered (IN)	Blow Counts (N)	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					ROD/Comments	
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200		
			6	Water - Depth to sediment = 6.25'											
1	10		7	WOOD CHIPS, variable in size, fibrous, black.											
2	10		8	SAND, fine to medium grained, loose, poorly graded, brown, odor.	SP			85.9							
			9	-medium dense, odor, sheen, reddish brown.				188.1							
3	10		11												
			12	SILT, trace fine sand, stiff, non-plastic, reddish brown, interbeds of silt and fine sand, sheen, visible product.	SM			160.4							
4	19		13	-trace clay, non-plastic, slight odor, reddish brown.				6.4							
			14												
5	17		15	SAND, very fine grained, silty, dense, reddish brown, odor. -1" clay layer @ 14.8 ft.	SP			2.1							
			16												
6	20		17	-fine grained, trace silt, medium dense, reddish brown.				3.0							
			18												
			19	EOB at 18.2 ft. below water surface											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature \_\_\_\_\_ Firm **URS Corp., Madison, WI**

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Route To:

- Solid Waste
- Wastewater
- Emergency Response

- Haz. Waste
- Underground Tanks
- Water Resources
- Other \_\_\_\_\_

Page 1 of 1

Facility / Project Name <b>NSP/Ashland Lakefront Site</b>		License/Permit/Monitoring Number _____		Boring Number <b>SD-27</b>	
Boring Drilled By (Firm name and name of crew chief) <b>Onsite Environmental, Tony Kapugi</b>		Date Drilling Started <u>03</u> / <u>06</u> / <u>01</u> MM DD YY		Date Drilling Completed <u>03</u> / <u>06</u> / <u>01</u> MM DD YY	
Common Well Name _____		Final Static Water Level _____ Feet MSL		Surface Elevation _____ Feet MSL	
Boring Location State Plane _____ N. _____ E S/C/N <b>SW 1/4 of NW 1/4 of Section 33 T 48 N, R 4 E</b>		Lat _____ Long _____		Local Grid Location (If Applicable) <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
County <b>Ashland</b>		DNR County Code <b>0 2</b>		Civil Town / City / or Village <b>City of Ashland</b>	

Sample Number	Length Recovered (IN)	Blow Counts (N)	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					ROD/Comments	
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200		
			6	Water - Depth to sediment = 6'0"											
			7	WOOD CHIPS, variable in size, fibrous, black.											
1	8		8	SAND, medium grained, loose, poorly graded, reddish brown.				0.9							
			9	-fine grained, medium dense.											
2	15		10	-fine to medium grained, medium dense, reddish brown, gravel sized rock encountered.	SP			0.3							
			11												
3	21		12	SILT, stiff, non-plastic, reddish brown.	SM			0.3							
			13	SAND, fine to medium grained, medium dense, reddish brown.	SP										
4	20		13	SILT, stiff, non-plastic, reddish brown.	SM										
			14	SAND, fine grained, with silt, dense, reddish brown.	SP			0.0							
			15	-fine to medium grained, medium dense, reddish brown, 13.3-14 ft.											
			16	EOB at 14.0 ft. below water surface											
			17												
			18												
			19												

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature \_\_\_\_\_ Firm **URS Corp., Madison, WI**

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Route To:

- Solid Waste
- Wastewater
- Emergency Response
- Haz. Waste
- Underground Tanks
- Water Resources
- Other \_\_\_\_\_

Facility / Project Name <b>NSP/Ashland Lakefront Site</b>		License/Permit/Monitoring Number _____		Boring Number <b>SD-28</b>	
Boring Drilled By (Firm name and name of crew chief) <b>Onsite Environmental, Tony Kapugi</b>		Date Drilling Started <u>03</u> / <u>07</u> / <u>01</u> MM DD YY	Date Drilling Completed <u>03</u> / <u>07</u> / <u>01</u> MM DD YY	Drilling Method <b>Track geoprobe</b>	
DNR Facility Well No. _____	DNR Monitoring Well No. _____	Common Well Name _____	Final Static Water Level _____ Feet MSL	Surface Elevation _____ Feet MSL	Borehole Diameter <b>2.0</b> inches
Boring Location State Plane _____ N. _____ E S/C/N <b>SW</b> 1/4 of <b>NW</b> 1/4 of Section <b>33</b> T <b>48</b> N, R <b>4</b> E			Lat _____	Local Grid Location (If Applicable) <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S _____ Feet <input type="checkbox"/> W _____ Feet	
County <b>Ashland</b>		DNR County Code <b>0 2</b>	Civil Town / City / or Village <b>City of Ashland</b>		

Sample Number	Length Recovered (IN)	Blow Counts (N)	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					ROD/Comments		
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200			
			4	Water - Depth to sediment = 4.75 feet												
1	8		5-6	WOOD CHIPS, trace silt, variably sized, fibrous, black to tan.				1.0								
2	15		7-8	As above, strong odor, visible product/sheen				7.7								
3	14		9-10	SAND, fine to medium grained, poorly graded, medium dense, reddish brown, odor.	SP			2.7								
4	23		11	SILT, stiff, non plastic reddish brown.	SM			1.3								
			12	SAND, fine to medium grained, medium dense, reddish brown.	SP											
5	21		13	SILT, stiff, non plastic reddish brown.	SM			1.0								
			14	SAND, fine to medium grained, medium dense, reddish brown.	SP											
			15	CLAY, silty, sandy, stiff, medium plasticity, brown	CL											
			16	EOB at 14.75 ft. below water surface												

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature _____	Firm <b>URS Corp., Madison, WI</b>
-----------------	------------------------------------

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Route To:

- Solid Waste
- Wastewater
- Emergency Response

- Haz. Waste
- Underground Tanks
- Water Resources
- Other \_\_\_\_\_

Facility / Project Name <b>NSP/Ashland Lakefront Site</b>		License/Permit/Monitoring Number _____		Boring Number <b>SD-29</b>	
Boring Drilled By (Firm name and name of crew chief) <b>Onsite Environmental, Tony Kapugi</b>		Date Drilling Started <u>03</u> / <u>08</u> / <u>01</u> MM / DD / YY		Date Drilling Completed <u>03</u> / <u>08</u> / <u>01</u> MM / DD / YY	
Common Well Name _____		Final Static Water Level _____ Feet MSL		Surface Elevation _____ Feet MSL	
Boring Location State Plane _____ N. _____ E S/C/N		Lat _____		Local Grid Location (If Applicable) <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S _____ Feet <input type="checkbox"/> W	
SW 1/4 of NW 1/4 of Section <b>33</b> T <b>48</b> N, R <b>4</b> E		County <b>Ashland</b>		DNR County Code <b>0 2</b>	
		Civil Town / City / or Village <b>City of Ashland</b>			

Sample Number	Length Recovered (IN)	Blow Counts (N)	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					ROD/Comments
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200	
			4	Water - Depth to sediment = 4.75'										
1	8		5	SAND, silty, with wood chips, fine grained, loose, dark brown.	SP			0.0						
2	7		7	WOOD CHIPS, variable in size, with silt and sand, fibrous, dark brown to tan.				0.0						
3	15		9	SAND, fine to medium grained, trace fine gravel at top, moderately dense, reddish brown.	SP			0.8						
4	22		11	SILT, stiff, non-plastic, reddish brown.	ML			0.0						
			11	SAND, fine to medium grained, trace fine gravel, moderately dense, reddish brown.	SP									
			12	CLAY, silty, sandy, stiff, medium plasticity, reddish brown.	CL									
			13	EOB at 12.7 ft. below water surface										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

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Route To:

- Solid Waste
- Wastewater
- Emergency Response

- Haz. Waste
- Underground Tanks
- Water Resources
- Other \_\_\_\_\_

Facility / Project Name <b>NSP/Ashland Lakefront Site</b>		License/Permit/Monitoring Number _____		Boring Number <b>SD-30</b>	
Boring Drilled By (Firm name and name of crew chief) <b>Onsite Environmental, Tony Kapugi</b>		Date Drilling Started <u>03</u> / <u>02</u> / <u>01</u> MM DD YY		Date Drilling Completed <u>03</u> / <u>02</u> / <u>01</u> MM DD YY	
Common Well Name _____		Final Static Water Level _____ Feet MSL		Surface Elevation _____ Feet MSL	
Boring Location State Plane _____ N. _____ E S/C/N		Lat _____		Local Grid Location (If Applicable) <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
SW 1/4 of NW 1/4 of Section <u>33</u> T <u>48</u> N, R <u>4</u> E		Long _____		_____ Feet _____ Feet	
County <b>Ashland</b>		DNR County Code <u>0</u> <u>2</u>		Civil Town / City / or Village <b>City of Ashland</b>	

Sample Number	Length Recovered (IN)	Blow Counts (N)	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					ROD/Comments	
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200		
			4	Water - Depth to sediment = 4.2 ft.											
			5	WOOD CHIPS, partially decomposed, black.											
1	6		6	SAND, silty, wood fibers, loose, fine grained, brown.	SP/SM			0.1							
2	9		8					0.0							
3	14		9	SAND, some silt, gravelly, loose, brown.	SP			0.1							
4	18		11	SAND, silty, loose, fine grained, poorly graded, brown.	SM			1.7							
			12												
			14	EOB at 15.0 ft. below water surface											
			15												
			16												
			17												

I hereby certify that the information on this form is true and correct to the best of my knowledge.

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Route To:

- Solid Waste
- Wastewater
- Emergency Response

- Haz. Waste
- Underground Tanks
- Water Resources
- Other \_\_\_\_\_

Facility / Project Name <b>NSP/Ashland Lakefront Site</b>		License/Permit/Monitoring Number _____		Boring Number <b>SD-31</b>	
Boring Drilled By (Firm name and name of crew chief) <b>Onsite Environmental, Tony Kapugi</b>		Date Drilling Started <u>03</u> / <u>02</u> / <u>01</u> MM DD YY	Date Drilling Completed <u>03</u> / <u>02</u> / <u>01</u> MM DD YY	Drilling Method <b>Track geoprobe</b>	
Boring Location State Plane <b>SW</b> 1/4 of <b>NW</b> 1/4 of Section <b>33</b> T <b>48</b> N, R <b>4</b> E	Common Well Name _____	Final Static Water Level _____ Feet MSL	Surface Elevation _____ Feet MSL	Borehole Diameter <b>2.0</b> inches	
County <b>Ashland</b>	DNR County Code <b>0 2</b>	Civil Town / City / or Village <b>City of Ashland</b>			

Sample Number	Length Recovered (IN)	Blow Counts (N)	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					ROD/Comments	
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200		
				Water - Depth to sediment = 5.3 ft.											
			6	WOOD CHIPS, fibrous, organic silt, odor, black.											
1	11		7	SAND, trace silt, fine grained, medium dense, poorly graded, brown, surface sheen.				3.7							
2	14		9	-As above, very silty, surface sheen. -As above, less silt, slight odor.	SP			250							
3	22		11					SAND, varying from silty to some silt every 2" (alternating layers), slight odor, brown.	18.8						
4	18		13	As above, slight odor.				2.2							
5	24		15					1.5							
6	22		17					1.0							
7	24		19	As above, slight odor.				1.0							
			20					EOB at 19.3 ft. below water surface							

I hereby certify that the information on this form is true and correct to the best of my knowledge.

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Route To:

- Solid Waste
- Wastewater
- Emergency Response

- Haz. Waste
- Underground Tanks
- Water Resources
- Other \_\_\_\_\_

Page 1 of 1

Facility / Project Name <b>NSP/Ashland Lakefront Site</b>		License/Permit/Monitoring Number _____		Boring Number <b>SD-32</b>	
Boring Drilled By (Firm name and name of crew chief) <b>Onsite Environmental, Tony Kapugi</b>		Date Drilling Started <u>03</u> / <u>02</u> / <u>01</u> MM DD YY		Date Drilling Completed <u>03</u> / <u>02</u> / <u>01</u> MM DD YY	
Common Well Name _____		Final Static Water Level _____ Feet MSL		Surface Elevation _____ Feet MSL	
Boring Location State Plane _____ N. _____ E S/C/N		Lat _____		Local Grid Location (If Applicable)	
<b>SW</b> 1/4 of <b>NW</b> 1/4 of Section <b>33</b> T <b>48</b> N, R <b>4</b> E		Long _____		<input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S _____ Feet <input type="checkbox"/> W	
County <b>Ashland</b>		DNR County Code <b>0 2</b>		Civil Town / City / or Village <b>City of Ashland</b>	

Sample Number	Length Recovered (IN)	Blow Counts (N)	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					ROD/Comments	
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200		
				Water - Depth to sediment = 5.9 ft.											
1	15		6	SILT, organic, wood chips, slight odor.											
			7	SAND, trace gravel, coarse grained, poorly graded, loose, brown. -silty, loose, fine grained, brown.	SP			4.1							
2	17		9	-trace gravel, very coarse, loose, surface, sheen, brown with black staining.											
			10	SAND, silty, fine grained, brown, odor. As above, slight odor.	SM			50							
3	18		12	As above, surface sheen, strong odor.											
			13	As above, slight odor.					27						
4	18		14	As above, slight odor.											
			15	As above, odorless.					6.9						
5	18		16	As above, odorless.											
			17	As above, odorless.					0.9						
6	24		18	As above, odorless.											
			19	As above, odorless.					10.5						
			20	EOB at 17.9 ft. below water surface											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature \_\_\_\_\_ Firm **URS Corp., Madison, WI**

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Route To:

- Solid Waste
- Wastewater
- Emergency Response

- Haz. Waste
- Underground Tanks
- Water Resources
- Other \_\_\_\_\_

Facility / Project Name <b>NSP/Ashland Lakefront Site</b>		License/Permit/Monitoring Number _____		Boring Number <b>SD-33</b>	
Boring Drilled By (Firm name and name of crew chief) <b>Onsite Environmental, Tony Kapugi</b>		Date Drilling Started <b>03 / 05 / 01</b> MM / DD / YY		Date Drilling Completed <b>03 / 05 / 01</b> MM / DD / YY	
Common Well Name _____		Final Static Water Level _____ Feet MSL		Surface Elevation _____ Feet MSL	
Boring Location State Plane <b>SW</b> 1/4 of <b>NW</b> 1/4 of Section <b>33</b> T <b>48</b> N, R <b>4</b> E		Lat _____ Long _____		Local Grid Location (If Applicable) <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
County <b>Ashland</b>		DNR County Code <b>0 2</b>		Civil Town / City / or Village <b>City of Ashland</b>	

Sample Number	Length Recovered (IN)	Blow Counts (N)	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					ROD/Comments	
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200		
			5	Water - Depth to sediment = 6.25'											
1	4		7	Wood chips, less than 1" in size, surface sheen, strong odor. SAND, medium to coarse grained, loose, dark brown, sheen, strong odor.				18.7							
2	15		9	-some silt, brown, 8.6-9.0 ft. -coarse to medium grained, loose, product emulsions, dark brown, 9.0-10.1 ft.	SP			19.2							
3	15		11	-very fine grained, moderately dense, sheen, strong odor, 10.1-11.1 ft. -2" coarse sand layer, free product present, 11.1-11.2 ft.				94.0							
4	18		12	SILT, some fine sand, stiff, reddish brown, odor.	ML										
5	17		13	SAND, medium grained, moderately dense to dense, reddish brown to brown, sheen, strong odor.				43.3							
			14	-medium to fine grained, medium dense, reddish brown.	SP			4.4							
			16	EOB at 16.2 ft. below water surface											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature \_\_\_\_\_ Firm **URS Corp., Madison, WI**

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Route To:

- Solid Waste
- Wastewater
- Emergency Response

- Haz. Waste
- Underground Tanks
- Water Resources
- Other \_\_\_\_\_

Page 1 of 1

Facility / Project Name <b>NSP/Ashland Lakefront Site</b>		License/Permit/Monitoring Number _____		Boring Number <b>SD-34</b>	
Boring Drilled By (Firm name and name of crew chief) <b>Onsite Environmental, Tony Kapugi</b>		Date Drilling Started <u>03</u> / <u>05</u> / <u>01</u> MM DD YY	Date Drilling Completed <u>03</u> / <u>05</u> / <u>01</u> MM DD YY	Drilling Method <b>Track geoprobe</b>	
DNR Boring No. _____		Common Well Name _____		Final Static Water Level _____ Feet MSL	Surface Elevation _____ Feet MSL
Boring Location State Plane <b>SW</b> 1/4 of <b>NW</b> 1/4 of Section <b>33</b> T <b>48</b> N, R <b>4</b> E		Lat _____ Long _____		Local Grid Location (If Applicable) <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S _____ Feet <input type="checkbox"/> W _____ Feet	
County <b>Ashland</b>		DNR County Code <b>0 2</b>		Civil Town / City / or Village <b>City of Ashland</b>	

Sample Number	Length Recovered (IN)	Blow Counts (N)	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					ROD/Comments					
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200						
			5	Water - Depth to sediment = 6.25'															
			6																
1	12		7	WOOD CHIPS, well decomposed, sheen, strong odor															
			8	SAND, loose, coarse to medium grained, dark brown, sheen, strong odor.	SP			73.5											
			9	-As above, fine grained, reddish brown.															
2	14		10	-As above, fine to medium grained, brown to reddish brown.				21.5											
			11	-As above, medium to coarse grained.															
3	16		12	SILT, medium stiff, slight odor, reddish brown.	ML			8.6											
			13																
4	19		14					7.3											
			15																
5	24		16					1.4											
			17	EOB at 16.2 ft. below water surface															
			18																

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature _____	Firm <b>URS Corp., Madison, WI</b>
-----------------	------------------------------------

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Route To:

- Solid Waste
- Wastewater
- Emergency Response
- Haz. Waste
- Underground Tanks
- Water Resources
- Other \_\_\_\_\_

Facility / Project Name <b>NSP/Ashland Lakefront Site</b>		License/Permit/Monitoring Number _____		Boring Number <b>SD-35</b>	
Boring Drilled By (Firm name and name of crew chief) <b>Onsite Environmental, Tony Kapugi</b>		Date Drilling Started <u>03</u> / <u>05</u> / <u>01</u> MM DD YY		Date Drilling Completed <u>03</u> / <u>05</u> / <u>01</u> MM DD YY	
Common Well Name _____		Final Static Water Level _____ Feet MSL		Surface Elevation _____ Feet MSL	
Boring Location State Plane N. _____ E S/C/N _____ SW 1/4 of NW 1/4 of Section <b>33</b> T <b>48</b> N, R <b>4</b> E		Local Grid Location (If Applicable) Lat _____ Long _____ Feet _____ Feet _____		<input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
County <b>Ashland</b>		DNR County Code <b>0 2</b>		Civil Town / City / or Village <b>City of Ashland</b>	

Sample Number	Length Recovered (ft)	Blow Counts (N)	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					ROD/Comments	
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200		
			5	Water - Depth to sediment = 5.5'											
			6	No recovery, liner tube stained with product											
1	0		7												
2	13		8	SAND, fine to medium grained, loose, poorly graded, brown to reddish brown, sheen, strong odor.	SP			12.9							
			9	-as above, more coarse, trace gravel.											
3	15		10												
			11	-very fine grained, little silt, dense, reddish brown, strong odor.				39.8							
4	15		12												
			13	SILT, medium stiff, reddish brown, slight odor.	ML			7.7							
			14												
5	15		15	-as above, no odor.				2.7							
			16												
			17	EOB at 15.5 ft. below water surface											
			18												

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature \_\_\_\_\_ Firm **URS Corp., Madison, WI**

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**SOIL BORING LOG INFORMATION**

Form 4400-122

7-91

Route To:

- Solid Waste
- Wastewater
- Emergency Response
- Haz. Waste
- Underground Tanks
- Water Resources
- Other \_\_\_\_\_

Page 1 of 1

Facility / Project Name <b>NSP/Ashland Lakefront Site</b>		License/Permit/Monitoring Number _____		Boring Number <b>SD-36</b>	
Boring Drilled By (Firm name and name of crew chief) <b>Onsite Environmental, Tony Kapugi</b>		Date Drilling Started <u>03</u> / <u>06</u> / <u>01</u> MM DD YY	Date Drilling Completed <u>03</u> / <u>06</u> / <u>01</u> MM DD YY	Drilling Method <b>Track geoprobe</b>	
Boring Location State Plane <b>SW</b> 1/4 of <b>NW</b> 1/4 of Section <b>33</b> T <b>48</b> N, R <b>4</b> E	Common Well Name _____	Final Static Water Level _____ Feet MSL	Surface Elevation _____ Feet MSL	Borehole Diameter <b>2.0</b> inches	
County <b>Ashland</b>	DNR County Code <b>0 2</b>	Civil Town / City / or Village <b>City of Ashland</b>			

Sample Number	Length Recovered (IN)	Blow Counts (N)	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					ROD/Comments	
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200		
				Water - Depth to sediment = 4.75 ft.											
1	2		5	WOOD CHIPS, trace sand and silt, variably sized, fibrous, visible product on chips, black.				54.6							
2	9		7	SAND, medium dense, fine to medium grained, reddish brown, visible product, strong odor.	SP			109.2							
3	14		10	CLAY, silty, trace sand and gravel, stiff, medium plasticity, reddish brown.	CL			179.4							
4	20		13	SILT, firm, non-plastic, slight odor, reddish brown.	SM			147.2							
5	13		14	-As above, some fine sand.				13.5							
6	16		15	-sandy, firm, non-plastic, very fine grained, no odor, reddish brown.				9.1							
			16	EOB at 16.75 ft. below water surface											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm <b>URS Corp., Madison, WI</b>
-----------	------------------------------------

This form is authorized by Chapters 144.147 and 162, Wis. Stats. Completion of this report is mandatory. Penalties: Forfeit not less than \$10 nor more than \$4,000 for each violation. Fines not less than \$10 or more than \$100 or imprisoned not less than 30 days, or both for each violation. Each day of continued violation is a separate offense, pursuant to ss 144.99 and 162.06, Wis. Stats

Route To:

- Solid Waste
- Wastewater
- Emergency Response

- Haz. Waste
- Underground Tanks
- Water Resources
- Other \_\_\_\_\_

Facility / Project Name <b>NSP/Ashland Lakefront Site</b>		License/Permit/Monitoring Number _____		Boring Number <b>SD-37</b>	
Boring Drilled By (Firm name and name of crew chief) <b>Onsite Environmental, Tony Kapugi</b>		Date Drilling Started <u>03</u> / <u>06</u> / <u>01</u> MM DD YY	Date Drilling Completed <u>03</u> / <u>06</u> / <u>01</u> MM DD YY	Drilling Method <b>Track geoprobe</b>	
Common Well Name _____		Final Static Water Level _____ Feet MSL	Surface Elevation _____ Feet MSL	Borehole Diameter <b>2.0</b> inches	
Boring Location State Plane SW 1/4 of NW 1/4 of Section <u>33</u> T <u>48</u> N, R <u>4</u> E		Lat _____ Long _____	Local Grid Location (If Applicable) <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S _____ Feet <input type="checkbox"/> W _____ Feet		
County <b>Ashland</b>		DNR County Code <u>0</u> <u>2</u>	Civil Town / City / or Village <b>City of Ashland</b>		

Sample Number	Length Recovered (IN)	Blow Counts (N)	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					ROD/Comments	
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200		
			4	Water - Depth to sediment = 4.1'											
1	7		5	WOOD CHIPS, with sand & silt, variable in size, fibrous, black.											
			6	-visible product				1.3							
2	10		7	SAND, fine to medium grained, medium dense, poorly graded, reddish brown, sheen, visible product in upper 8".	SP			73.6							
			8	-trace silt, sheen, visible product, odor.											
3	17		9					97.5							
			10	SILT, with fine sand, trace clay, firm, non-plastic, slight odor, reddish brown.											
4	12		11		SM			4.0							
			12												
5	21		13					5.9							
			14	-as above, stiff lenses throughout.											
			15												
6	20		16					2.5							
			17	EOB at 16.1 ft. below water surface											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature _____	Firm <b>URS Corp., Madison, WI</b>
-----------------	------------------------------------

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Route To:

- Solid Waste
- Wastewater
- Emergency Response
- Haz. Waste
- Underground Tanks
- Water Resources
- Other \_\_\_\_\_

Facility / Project Name <b>NSP/Ashland Lakefront Site</b>		License/Permit/Monitoring Number _____		Boring Number <b>SD-38</b>	
Boring Drilled By (Firm name and name of crew chief) <b>Onsite Environmental, Tony Kapugi</b>		Date Drilling Started <u>03</u> / <u>06</u> / <u>01</u> MM DD YY		Date Drilling Completed <u>03</u> / <u>06</u> / <u>01</u> MM DD YY	
Common Well Name _____		Final Static Water Level _____ Feet MSL		Surface Elevation _____ Feet MSL	
Boring Location State Plane SW 1/4 of NW 1/4 of Section <u>33</u> T <u>48</u> N, R <u>4</u> E		Lat _____ Long _____		Local Grid Location (If Applicable) <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S _____ Feet <input type="checkbox"/> W _____ Feet	
County <b>Ashland</b>		DNR County Code <u>0</u> <u>2</u>		Civil Town / City / or Village <b>City of Ashland</b>	

Sample Number	Length Recovered (IN)	Blow Counts (N)	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					ROD/Comments	
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200		
			2	Water - Depth to sediment = 4.2'											
1	4		4-5	WOOD CHIPS, variable in size, fibrous, black.				0.0							
2	10		7-8	SAND, fine to medium grained, loose, poorly graded, brown.	SP			0.0							
3	7		9-10	-fine grained, trace silt, medium dense, reddish brown.				0.1							
4	20		11-12					0.0							
5	20		13-14	SILT, trace fine sand, very stiff, non-plastic, reddish brown.	SM										
			14.1	EOB at 14.1 ft. below water surface											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature \_\_\_\_\_ Firm **URS Corp., Madison, WI**

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Route To:

- Solid Waste
- Wastewater
- Emergency Response

- Haz. Waste
- Underground Tanks
- Water Resources
- Other \_\_\_\_\_

Page 1 of 1

Facility / Project Name <b>NSP/Ashland Lakefront Site</b>		License/Permit/Monitoring Number _____		Boring Number <b>SD-39</b>	
Boring Drilled By (Firm name and name of crew chief) <b>Onsite Environmental, Tony Kapugi</b>		Date Drilling Started <b>03 / 07 / 01</b> MM DD YY	Date Drilling Completed <b>03 / 07 / 01</b> MM DD YY	Drilling Method <b>Track geoprobe</b>	
Common Well Name _____		Final Static Water Level _____ Feet MSL	Surface Elevation _____ Feet MSL	Borehole Diameter <b>2.0</b> inches	
Boring Location State Plane <b>SW</b> 1/4 of <b>NW</b> 1/4 of Section <b>33</b> T <b>48</b> N, R <b>4</b> E		Lat _____ Long _____	Local Grid Location (If Applicable) <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S _____ Feet <input type="checkbox"/> W _____ Feet		
County <b>Ashland</b>		DNR County Code <b>0 2</b>	Civil Town / City / or Village <b>City of Ashland</b>		

Sample Number	Length Recovered (IN)	Blow Counts (N)	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					ROD/Comments			
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200				
			2	Water - Depth to sediment = 4.0'													
1	6		4-5	WOOD CHIPS, with silt, sandy, variable in size, fibrous, black to light brown.				1.3									
2	6		6-7	SAND, fine to medium grained, medium dense, poorly graded, reddish brown.	SP			0.9									
3	12		9-10	SILT, with fine sand & clay, firm, non plastic, reddish brown.				1.1									
4	15		11-12	-1" sand layer, fine grained, dense, reddish brown.	ML			1.3									
5	18		13-14	-as above, firm, non-plastic, reddish brown.				1.5									
			14	EOB at 14.0 ft. below water surface													

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**SOIL BORING LOG INFORMATION**

Form 4400-122




7-91

Route To:

- Solid Waste
- Wastewater
- Emergency Response
- Haz. Waste
- Underground Tanks
- Water Resources
- Other \_\_\_\_\_

Page 1 of 1

Facility / Project Name <b>NSP/Ashland Lakefront Site</b>		License/Permit/Monitoring Number _____		Boring Number <b>SD-40</b>	
Boring Drilled By (Firm name and name of crew chief) <b>Onsite Environmental, Tony Kapugi</b>		Date Drilling Started <u>03</u> / <u>07</u> / <u>01</u> MM DD YY	Date Drilling Completed <u>03</u> / <u>07</u> / <u>01</u> MM DD YY	Drilling Method <b>Track geoprobe</b>	
Boring Location State Plane <b>SW</b> 1/4 of <b>NW</b> 1/4 of Section <b>33</b> T <b>48</b> N, R <b>4</b> E	Common Well Name _____	Final Static Water Level _____ Feet MSL	Surface Elevation _____ Feet MSL	Borehole Diameter <b>2.0</b> inches	
Local Grid Location (If Applicable) <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	County <b>Ashland</b>	DNR County Code <b>0 2</b>	Civil Town / City / or Village <b>City of Ashland</b>		

Sample Number	Length Recovered (IN)	Blow Counts (N)	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					ROD/Comments					
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200						
			2	Water - Depth to sediment = 3.5'															
1	5		4	WOOD CHIPS, trace sand and silt, variable in size, fibrous, black to light brown.				1.3											
2	7		6	SAND, fine to medium grained, loose, poorly graded, reddish brown.	SP			0.9											
3	14		8					1.1											
4	16		10	SILT, trace fine sand, stiff, non-plastic, reddish brown.	SM			1.3											
			11.5	EOB at 11.5 ft. below water surface															

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature \_\_\_\_\_ Firm **URS Corp., Madison, WI**

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**SOIL BORING LOG INFORMATION**

Form 4400-122

7-91

Route To:

- Solid Waste
- Wastewater
- Emergency Response

- Haz. Waste
- Underground Tanks
- Water Resources
- Other \_\_\_\_\_

Page 1 of 1

Facility / Project Name <b>NSP/Ashland Lakefront Site</b>		License/Permit/Monitoring Number _____		Boring Number <b>SD-41</b>	
Boring Drilled By (Firm name and name of crew chief) <b>Onsite Environmental, Tony Kapugi</b>		Date Drilling Started <u>03</u> / <u>07</u> / <u>01</u> MM DD YY	Date Drilling Completed <u>03</u> / <u>07</u> / <u>01</u> MM DD YY	Drilling Method <b>Track geoprobe</b>	
Common Well Name _____		Final Static Water Level _____ Feet MSL	Surface Elevation _____ Feet MSL	Borehole Diameter <b>2.0</b> inches	
Boring Location State Plane _____ N. _____ E S/C/N		Lat _____	Local Grid Location (If Applicable)		
<b>SW</b> 1/4 of <b>NW</b> 1/4 of Section <b>33</b> T <b>48</b> N, R <b>4</b> E		Long _____	_____ Feet	<input type="checkbox"/> N	<input type="checkbox"/> E
County <b>Ashland</b>	DNR County Code <b>0 2</b>	Civil Town / City / or Village <b>City of Ashland</b>			

Sample Number	Length Recovered (IN)	Blow Counts (N)	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					ROD/Comments	
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200		
				Water-Depth to sediment = 3.1 ft.											
1	2		3-4	WOOD CHIPS, fibrous, variably sized, trace silt, black.				1.2							
2	0		5-6	No recovery.				28.0							
3	3		7-8	As above, strong odor, visible product.				50.3							
4	17		9-10	SAND, medium dense, poorly graded, fine to medium grained, reddish brown, visible product.	SP			6.8							
			11	SILT, stiff, fine grained, non-plastic, slight odor, reddish brown.	SM										
5	15		12-13	As above, no odor.				2.0							
			13	EOB at 13.1 ft. below water surface											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature \_\_\_\_\_ Firm **URS Corp., Madison, WI**

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Route To:

- Solid Waste
- Wastewater
- Emergency Response

- Haz. Waste
- Underground Tanks
- Water Resources
- Other \_\_\_\_\_

Facility / Project Name <b>NSP/Ashland Lakefront Site</b>		License/Permit/Monitoring Number _____		Boring Number <b>SD-42</b>	
Boring Drilled By (Firm name and name of crew chief) <b>Onsite Environmental, Tony Kapugi</b>		Date Drilling Started <u>03</u> / <u>02</u> / <u>01</u> MM DD YY		Date Drilling Completed <u>03</u> / <u>02</u> / <u>01</u> MM DD YY	
Common Well Name _____		Final Static Water Level _____ Feet MSL		Surface Elevation _____ Feet MSL	
Boring Location State Plane _____ N _____ E S/C/N		Lat _____		Local Grid Location (If Applicable) <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S _____ Feet <input type="checkbox"/> W	
SW 1/4 of NW 1/4 of Section <u>33</u> T <u>48</u> N, R <u>4</u> E		Long _____		_____ Feet	
County <b>Ashland</b>		DNR County Code <u>0</u> <u>2</u>		Civil Town / City / or Village <b>City of Ashland</b>	

Sample Number	Length Recovered (IN)	Blow Counts (N)	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					ROD/Comments	
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200		
			2	Water - Depth to sediment = 2.25 ft											
1	10		3-4	WOOD CHIPS, fibrous, decomposed.				2.5							
2	10		5-6	SAND, loose, medium grained, tan to brown.	SP			0.4							
			6-7	-As above, fine grained.											
3	16		7-8					1.0							
			8-9	SILT, sandy, medium dense, low plasticity, brown.	ML										
4	18		9-10					2.7							
			10-11	EOB at 10.25 ft. below water surface											
			11-12												
			12-13												
			13-14												
			14-15												

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature \_\_\_\_\_ Firm **URS Corp., Madison, WI**

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Route To:

- Solid Waste
- Wastewater
- Emergency Response

- Haz. Waste
- Underground Tanks
- Water Resources
- Other \_\_\_\_\_

Facility / Project Name <b>NSP/Ashland Lakefront Site</b>		License/Permit/Monitoring Number _____		Boring Number <b>SD-43</b>	
Boring Drilled By (Firm name and name of crew chief) <b>Onsite Environmental, Tony Kapugi</b>		Date Drilling Started <u>03</u> / <u>02</u> / <u>01</u> MM DD YY	Date Drilling Completed <u>03</u> / <u>02</u> / <u>01</u> MM DD YY	Drilling Method <b>Track geoprobe</b>	
Common Well Name _____		Final Static Water Level _____ Feet MSL	Surface Elevation _____ Feet MSL	Borehole Diameter <b>2.0</b> inches	
Boring Location State Plane <b>SW</b> 1/4 of <b>NW</b> 1/4 of Section <b>33</b> T <b>48</b> N, R <b>4</b> E		Lat _____ Long _____	Local Grid Location (if Applicable) <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W		
County <b>Ashland</b>		DNR County Code <b>0 2</b>	Civil Town / City / or Village <b>City of Ashland</b>		

Sample Number	Length Recovered (IN)	Blow Counts (N)	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					ROD/Comments				
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200					
			2	Water - Depth to sediment = 3.6'														
1	12		4	WOOD CHIPS, fibrous, partially decomposed, slight odor, black.				4.0										
2	15		6	SAND, coarse grained, medium dense, odor, brown to black.	SP			3.7										
			7	As above, fine grained below 6.1 feet.														
			8	As above, coarse grained below 7.6 feet.														
3	18		9	SILT, sandy, medium dense, non plastic, odor, brown.	ML			4.7										
			10	-Heavy sheen below 8.6 feet.														
			11	-Varying sand/silt layers from 9.6 to 11.6 feet.														
4	21		12	-medium dense, non plastic, brown.				3.4										
			13					3.4										
5	24		14	EOB at 13.6 ft. below water surface														

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature _____	Firm <b>URS Corp., Madison, WI</b>
-----------------	------------------------------------

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Route To:

- Solid Waste
- Wastewater
- Emergency Response

- Haz. Waste
- Underground Tanks
- Water Resources
- Other \_\_\_\_\_

Facility / Project Name <b>NSP/Ashland Lakefront Site</b>		License/Permit/Monitoring Number _____		Boring Number <b>SD-44</b>	
Boring Drilled By (Firm name and name of crew chief) <b>Onsite Environmental, Tony Kapugi</b>		Date Drilling Started <u>03</u> / <u>02</u> / <u>01</u> MM DD YY	Date Drilling Completed <u>03</u> / <u>02</u> / <u>01</u> MM DD YY	Drilling Method <b>Track geoprobe</b>	
DNR Permit No. _____	Well No. _____	Common Well Name _____	Final Static Water Level _____ Feet MSL	Surface Elevation _____ Feet MSL	Borehole Diameter <b>2.0</b> inches
Boring Location State Plane _____ N _____ E S/C/N		Lat _____	Local Grid Location (If Applicable)		
<b>SW</b> 1/4 of <b>NW</b> 1/4 of Section <b>33</b> T <b>48</b> N, R <b>4</b> E	Long _____	_____ Feet	<input type="checkbox"/> N	_____ Feet	<input type="checkbox"/> E
<input type="checkbox"/> S	_____ Feet	<input type="checkbox"/> W			
County <b>Ashland</b>		DNR County Code <b>0 2</b>	Civil Town / City / or Village <b>City of Ashland</b>		

Sample Number	Length Recovered (IN)	Blow Counts (N)	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					ROD/Comments					
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200						
			2																
			3	Water - Depth to sediment = 4.7 ft															
			4																
1	9		5	WOOD CHIPS, fibrous, strong odor, black.				82											
			6	SAND, silty, medium dense, medium grained, poorly graded, brown, black staining, odor.	SP SM														
			7	WOOD CHIPS, black staining, strong odor.															
2	16		8	SAND, silty, medium dense, medium grained, brown, odor, black staining with product.	SP SM			44.7											
			9	-As above, fine sand below 8.2 ft.															
3	24		10	SILT, sandy, dense, non plastic, slight odor, brown.	ML			23.1											
			11																
4	17		12					8.2											
			13	EOB at 12.7 ft. below water surface															
			14																
			15																

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature \_\_\_\_\_ Firm **URS Corp., Madison, WI**

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Route To:

- Solid Waste
- Wastewater
- Emergency Response

- Haz. Waste
- Underground Tanks
- Water Resources
- Other \_\_\_\_\_

Facility / Project Name <b>NSP/Ashland Lakefront Site</b>		License/Permit/Monitoring Number _____		Boring Number <b>SD-45</b>	
Boring Drilled By (Firm name and name of crew chief) <b>Onsite Environmental, Tony Kapugi</b>		Date Drilling Started <u>03</u> / <u>05</u> / <u>01</u> MM DD YY		Date Drilling Completed <u>03</u> / <u>05</u> / <u>01</u> MM DD YY	
Common Well Name _____		Final Static Water Level _____ Feet MSL		Surface Elevation _____ Feet MSL	
Boring Location State Plane _____ N. _____ E S/C/N		Lat _____		Local Grid Location (If Applicable) <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
SW 1/4 of NW 1/4 of Section <b>33</b> T <b>48</b> N, R <b>4</b> E		Long _____		_____ Feet _____ Feet	
County <b>Ashland</b>		DNR County Code <b>0 2</b>		Civil Town / City / or Village <b>City of Ashland</b>	

Sample Number	Length Recovered (IN)	Blow Counts (N)	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					ROD/Comments	
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200		
			3	Water - Depth to sediment = 5.3'											
1	12		5-6	WOOD CHIPS, variably sized, fibrous, decomposed, surface sheen, strong odor.				97.9							
2	14		6-7	SAND, some silt, fine to medium grained, reddish brown, product emulsions, strong odor.	SM			66.3							
3	18		8-9	SILT, sandy, moderately soft, slight odor, reddish brown, becoming stiffer with depth.	ML			20.2							
4	24		10-13					37.7							
			13.3	EOB at 13.3 ft. below water surface				10.4							

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature \_\_\_\_\_ Firm **URS Corp., Madison, WI**

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Route To:

- Solid Waste
- Wastewater
- Emergency Response

- Haz. Waste
- Underground Tanks
- Water Resources
- Other \_\_\_\_\_

Page 1 of 1

Facility / Project Name <b>NSP/Ashland Lakefront Site</b>		License/Permit/Monitoring Number _____		Boring Number <b>SD-46</b>	
Boring Drilled By (Firm name and name of crew chief) <b>Onsite Environmental, Tony Kapugi</b>		Date Drilling Started <u>03</u> / <u>05</u> / <u>01</u> MM DD YY	Date Drilling Completed <u>03</u> / <u>05</u> / <u>01</u> MM DD YY	Drilling Method <b>Track geoprobe</b>	
Common Well Name _____		Final Static Water Level _____ Feet MSL	Surface Elevation _____ Feet MSL	Borehole Diameter <b>2.0</b> inches	
Boring Location State Plane _____ N _____ E S/C/N <b>SW</b> 1/4 of <b>NW</b> 1/4 of Section <b>33</b> T <b>48</b> N, R <b>4</b> E		Lat _____ Long _____	Local Grid Location (If Applicable) <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S _____ Feet <input type="checkbox"/> W		
County <b>Ashland</b>		DNR County Code <b>0 2</b>	Civil Town / City / or Village <b>City of Ashland</b>		

Sample Number	Length Recovered (IN)	Blow Counts (N)	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					ROD/Comments	
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200		
			5	Water - Depth to sediment = 5.25 ft.											
			6	WOOD CHIPS, fibrous, strong odor, free product, black.											
1	12		7	SAND, fine to medium grained, loose, poorly graded, brown, surface sheen, strong odor.	SP			73.5							
2	14		9	SILT, sandy, stiff, non plastic, slight odor, reddish brown.	ML			21.5							
3	16		11												
4	19		13	CLAY, silty, very stiff, low plasticity, reddish brown.	CL			7.3							
5	24		14												
			15					1.4							
			16												
			17	EOB at 16.2 ft. below water surface											
			18												

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature \_\_\_\_\_ Firm **URS Corp., Madison, WI**

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Route To:

- Solid Waste
- Wastewater
- Emergency Response

- Haz. Waste
- Underground Tanks
- Water Resources
- Other \_\_\_\_\_

Facility / Project Name <b>NSP/Ashland Lakefront Site</b>		License/Permit/Monitoring Number _____		Boring Number <b>SD-47</b>	
Boring Drilled By (Firm name and name of crew chief) <b>Onsite Environmental, Tony Kapugi</b>		Date Drilling Started <u>03</u> / <u>05</u> / <u>01</u> MM DD YY	Date Drilling Completed <u>03</u> / <u>05</u> / <u>01</u> MM DD YY	Drilling Method <b>Track geoprobe</b>	
Common Well Name _____		Final Static Water Level _____ Feet MSL	Surface Elevation _____ Feet MSL	Borehole Diameter <b>2.0</b> inches	
Boring Location State Plane _____ N. _____ E S/C/N		Lat _____	Local Grid Location (If Applicable)		
SW 1/4 of NW 1/4 of Section <b>33</b> T <b>48</b> N, R <b>4</b> E		Long _____	_____ Feet	<input type="checkbox"/> N	<input type="checkbox"/> E
County <b>Ashland</b>	DNR County Code <b>0 2</b>	Civil Town / City / or Village <b>City of Ashland</b>			

Sample Number	Length Recovered (IN)	Blow Counts (N)	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					ROD/Comments		
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200			
			3	Water - Depth to sediment = 4.8 ft.												
1	10		5	WOOD CHIPS, interbedded with coarse sand, moderate to strong odor.				76.7								
2	18		7	SAND, medium grained, loose, dark brown, product emulsions, strong odor.	SP			114.1								
3	0		9	No recovery.												
4	18		11	CLAY, trace gravel, stiff, reddish brown.	CL			9.8								
			12.8	EOB at 12.8 ft. below water surface												

I hereby certify that the information on this form is true and correct to the best of my knowledge.

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Route To:

- Solid Waste
- Wastewater
- Emergency Response
- Haz. Waste
- Underground Tanks
- Water Resources
- Other \_\_\_\_\_

Facility / Project Name <b>NSP/Ashland Lakefront Site</b>		License/Permit/Monitoring Number _____		Boring Number <b>SD-48</b>	
Boring Drilled By (Firm name and name of crew chief) <b>Onsite Environmental, Tony Kapugi</b>		Date Drilling Started <u>03</u> / <u>07</u> / <u>01</u> MM DD YY		Date Drilling Completed <u>03</u> / <u>07</u> / <u>01</u> MM DD YY	
Common Well Name _____		Final Static Water Level _____ Feet MSL		Surface Elevation _____ Feet MSL	
Boring Location State Plane _____ N. _____ E S/C/N		Lat _____		Local Grid Location (If Applicable)	
SW 1/4 of NW 1/4 of Section <u>33</u> T <u>48</u> N, R <u>4</u> E		Long _____		<input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S _____ Feet <input type="checkbox"/> W	
County <b>Ashland</b>		DNR County Code <u>0</u> <u>2</u>		Civil Town / City / or Village <b>City of Ashland</b>	

Sample Number	Length Recovered (IN)	Blow Counts (N)	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					ROD/Comments	
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200		
			2	Water - Depth to sediment = 2.2'											
1	11		3	SAND, with wood chips, fine to medium grained, loose, brown.	SP			2.8							
			4	WOOD CHIPS, variable in size, fibrous, black to light brown.											
2	3		5	-sheen, product present, with coarse sand and brick fragments.				11.0							
			6												
3	14		7	SAND, fine to medium grained, medium dense, poorly graded, reddish brown, strong odor.				35.5							
			8		SP										
4	19		9	-fine to coarse grained, trace wood chips, medium dense, reddish brown, strong odor, visible product.				125.1							
			10												
5	20		11	SILT, clayey, firm, non-plastic, reddish brown, slight odor.				11.0							
			12		ML										
6	19		13					8.3							
			14												
			15	EOB at 14.1 ft. below water surface											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

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Route To:

- Solid Waste
- Wastewater
- Emergency Response

- Haz. Waste
- Underground Tanks
- Water Resources
- Other \_\_\_\_\_

Page 1 of 1

Facility / Project Name <b>NSP/Ashland Lakefront Site</b>		License/Permit/Monitoring Number _____		Boring Number <b>SD-49</b>	
Boring Drilled By (Firm name and name of crew chief) <b>Onsite Environmental, Tony Kapugi</b>		Date Drilling Started <u>03</u> / <u>01</u> / <u>01</u> MM DD YY	Date Drilling Completed <u>03</u> / <u>01</u> / <u>01</u> MM DD YY	Drilling Method <b>Track geoprobe</b>	
Boring Location State Plane <b>SW</b> 1/4 of <b>NW</b> 1/4 of Section <b>33</b> T <b>48</b> N, R <b>4</b> E	Common Well Name _____	Final Static Water Level _____ Feet MSL	Surface Elevation _____ Feet MSL	Borehole Diameter <b>2.0</b> inches	
Local Grid Location (If Applicable) <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S _____ Feet <input type="checkbox"/> W _____ Feet	County <b>Ashland</b>	DNR County Code <b>0 2</b>	Civil Town / City / or Village <b>City of Ashland</b>		

Sample Number	Length Recovered (IN)	Blow Counts (N)	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					ROD/Comments	
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200		
			2	Water-Depth to sediment = 2.3 ft.											
1	10		3	WOOD CHIPS, fibrous, variably sized, black to light brown.				5.0							
2	8		5	-As above, sheen/product below 5.9 ft.				73.1							
3	19		7	SAND, medium dense, fine to medium grained, poorly graded, reddish brown, visible product, strong odor.	SP			50.0							
4	15		9	SAND, trace gravel, fine to medium grained, loose, poorly graded, reddish brown, visible product, strong odor.	SP/SW			56.1							
5	17		11	SILT, trace clay, stiff, non-plastic, slight odor, reddish brown.	SM			3.5							
			13	EOB at 12.3 ft. below water surface											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature \_\_\_\_\_ Firm **URS Corp., Madison, WI**

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Route To:

- Solid Waste
- Wastewater
- Emergency Response

- Haz. Waste
- Underground Tanks
- Water Resources
- Other \_\_\_\_\_

Facility / Project Name <b>NSP/Ashland Lakefront Site</b>		License/Permit/Monitoring Number _____		Boring Number <b>SD-50</b>	
Boring Drilled By (Firm name and name of crew chief) <b>Onsite Environmental, Tony Kapugi</b>		Date Drilling Started <u>03</u> / <u>07</u> / <u>01</u> MM DD YY	Date Drilling Completed <u>03</u> / <u>07</u> / <u>01</u> MM DD YY	Drilling Method <b>Track geoprobe</b>	
Common Well Name _____		Final Static Water Level _____ Feet MSL	Surface Elevation _____ Feet MSL	Borehole Diameter <b>2.0</b> inches	
Boring Location State Plane _____ N. _____ E S/C/N <b>SW</b> 1/4 of <b>NW</b> 1/4 of Section <b>33</b> T <b>48</b> N, R <b>4</b> E		Lat _____ Long _____	Local Grid Location (If Applicable) <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S _____ Feet <input type="checkbox"/> W _____ Feet		
County <b>Ashland</b>		DNR County Code <b>0 2</b>	Civil Town / City / or Village <b>City of Ashland</b>		

Sample Number	Length Recovered (ft)	Blow Counts (N)	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					ROD/Comments	
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200		
				Water-Depth to sediment = 2.3 ft.											
1	9		3	WOOD CHIPS, fibrous, variably sized, some sand, some silt, black to light brown.				5.0							
2	3		5	-As above, increasing sand and silt content				73.1							
3	15		7	SILT, some wood chips, trace sand, very soft, non plastic, brown, visible product, strong odor.	SM			50.0							
4	21		8	SAND, trace silt, medium dense, fine to medium grained, poorly graded, reddish brown, visible product to 8.3 ft., strong odor.	SP			56.1							
5	20		11	-medium dense, fine to medium grained, trace coarse sand, black to reddish brown, visible product.				3.5							
6	17		12	SILT, sandy, stiff, fine grained, non-plastic, reddish brown, slight odor.	SM			3.5							
			13	-As above, no odor											
			14												
			15	EOB at 14.3 ft. below water surface											
			16												

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature _____	Firm <b>URS Corp., Madison, WI</b>
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Route To:

- Solid Waste
- Wastewater
- Emergency Response

- Haz. Waste
- Underground Tanks
- Water Resources
- Other \_\_\_\_\_

Facility / Project Name <b>NSP/Ashland Lakefront Site</b>		License/Permit/Monitoring Number _____		Boring Number <b>SD-51</b>	
Boring Drilled By (Firm name and name of crew chief) <b>Onsite Environmental, Tony Kapugi</b>		Date Drilling Started <u>03</u> / <u>07</u> / <u>01</u> MM DD YY		Date Drilling Completed <u>03</u> / <u>07</u> / <u>01</u> MM DD YY	
Common Well Name _____		Final Static Water Level _____ Feet MSL		Surface Elevation _____ Feet MSL	
Boring Location State Plane _____ N _____ E S/C/N		Lat _____		Local Grid Location (If Applicable) <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S _____ Feet <input type="checkbox"/> W	
SW 1/4 of NW 1/4 of Section <u>33</u> T <u>48</u> N, R <u>4</u> E		Long _____		_____ Feet	
County <b>Ashland</b>		DNR County Code <u>0</u> <u>2</u>		Civil Town / City / or Village <b>City of Ashland</b>	

Sample Number	Length Recovered (IN)	Blow Counts (N)	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					ROD/Comments	
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200		
			1	Water - Depth to sediment = 1.7 ft.											
1	11		2-3	WOOD CHIPS, fibrous, silty, sandy, variably sized, black, brown, tan.				0.1							
2	13		4-5	SILT, some wood chips, roots, very soft, non-plastic, dark brown.	SM			0.7							
3	8		6-7	WOOD CHIPS, fibrous, variably sized, tan.				1.2							
4	17		8-9	SILT, with wood chips, very soft, non plastic, strong odor, visible product, dark brown.	SM										
			9-10	SAND, trace gravel, loose, fine to coarse grained, poorly graded, reddish brown, visible product.	SP			32.2							
5	17		10-11	fine to medium grained, medium dense, poorly graded, odor.											
			11-12	SILT, fine sand, stiff, non plastic, no odor, reddish brown.	SM			2.6							
6	19		12-13					0.9							
			14	EOB at 13.7 ft. below water surface											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature _____	Firm <b>URS Corp., Madison, WI</b>
-----------------	------------------------------------

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**SOIL BORING LOG INFORMATION**

Form 4400-122

7-91

Route To:

- Solid Waste
- Wastewater
- Emergency Response
- Haz. Waste
- Underground Tanks
- Water Resources
- Other \_\_\_\_\_

Page 1 of 1

Facility / Project Name <b>NSP/Ashland Lakefront Site</b>		License/Permit/Monitoring Number _____		Boring Number <b>SD-52</b>	
Boring Drilled By (Firm name and name of crew chief) <b>Onsite Environmental, Tony Kapugi</b>		Date Drilling Started <u>03</u> / <u>02</u> / <u>01</u> MM DD YY	Date Drilling Completed <u>03</u> / <u>02</u> / <u>01</u> MM DD YY	Drilling Method <b>Track geoprobe</b>	
DNR Field Well No. _____	DNR Office Well No. _____	Common Well Name _____	Final Static Water Level _____ Feet MSL	Surface Elevation _____ Feet MSL	Borehole Diameter <b>2.0</b> inches
Boring Location State Plane _____ N. _____ E S/C/N _____ Lat _____		Local Grid Location (If Applicable) _____ Feet <input type="checkbox"/> N _____ Feet <input type="checkbox"/> E _____ Feet <input type="checkbox"/> S _____ Feet <input type="checkbox"/> W			
SW 1/4 of NW 1/4 of Section <b>33</b> T <b>48</b> N, R <b>4</b> E		County <b>Ashland</b>	DNR County Code <b>0 2</b>	Civil Town / City / or Village <b>City of Ashland</b>	

Sample Number	Length Recovered (IN)	Blow Counts (N)	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					ROD/Comments			
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200				
			1	Water - Depth to sediment = 2.0 ft													
1	10		2-3	WOOD CHIPS, fibrous, moderately decomposed, slight odor, black.				3.8									
2	7		4-5	-As above, well decomposed below 4.0 ft., strong odor, free product present.				51									
3	16		6-7	SAND, loose, medium to fine grained, poorly graded, brown, surface sheen, free product.	SP			44									
4	17		8-9	SILT, sandy, dense, non plastic, slight odor, brown.	ML			9.2									
5	14		10-11	-As above, odorless below 11.0 feet.				4.8									
			12	EOB at 12.0 ft. below water surface													

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature _____	Firm <b>URS Corp., Madison, WI</b>
-----------------	------------------------------------

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Route To:

- Solid Waste
- Wastewater
- Emergency Response

- Haz. Waste
- Underground Tanks
- Water Resources
- Other \_\_\_\_\_

Page 1 of 1

Facility / Project Name <b>NSP/Ashland Lakefront Site</b>		License/Permit/Monitoring Number _____		Boring Number <b>SD-53</b>	
Boring Drilled By (Firm name and name of crew chief) <b>Onsite Environmental, Tony Kapugi</b>		Date Drilling Started <u>03</u> / <u>02</u> / <u>01</u> MM DD YY	Date Drilling Completed <u>03</u> / <u>02</u> / <u>01</u> MM DD YY	Drilling Method <b>Track geoprobe</b>	
Common Well Name _____		Final Static Water Level _____ Feet MSL	Surface Elevation _____ Feet MSL	Borehole Diameter <b>2.0</b> inches	
Boring Location State Plane SW 1/4 of NW 1/4 of Section <u>33</u> T <u>48</u> N, R <u>4</u> E		Lat _____ Long _____	Local Grid Location (If Applicable) <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S _____ Feet <input type="checkbox"/> W _____ Feet		
County <b>Ashland</b>		DNR County Code <b>0 2</b>	Civil Town / City / or Village <b>City of Ashland</b>		

Sample Number	Length Recovered (N)	Blow Counts (N)	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					ROD/Comments	
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200		
			3	Water - Depth to sediment = 3.25 ft.											
1	4		4	WOOD CHIPS, glass, moderate odor, black.				58.6							
2	12		5	SAND, some silt, coarse grained, medium dense, poorly graded, brown, surface sheen, strong odor.	SP			126							
			6	As above, fine grained below 6.25 ft.											
3	15		7	SAND, gravelly, loose, coarse, brown, surface sheen, strong odor.	SW			93							
			8	SILT, sandy, medium dense, non plastic, slight odor, reddish brown.	ML										
4	24		9												
			10												
5	24		11												
			12												
			13	CLAY, silty, some gravel fragments, very stiff to hard, non plastic, slight odor, reddish brown.	CL			25.6							
			14												
6	0		15												
			16	EOB at 15.25 ft. below water surface				27.4							

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature \_\_\_\_\_ Firm **URS Corp., Madison, WI**

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Route To:

- Solid Waste
- Wastewater
- Emergency Response

- Haz. Waste
- Underground Tanks
- Water Resources
- Other \_\_\_\_\_

Facility / Project Name <b>NSP/Ashland Lakefront Site</b>		License/Permit/Monitoring Number _____		Boring Number <b>SD-54</b>	
Boring Drilled By (Firm name and name of crew chief) <b>Onsite Environmental, Tony Kapugi</b>		Date Drilling Started <u>03</u> / <u>05</u> / <u>01</u> MM DD YY		Date Drilling Completed <u>03</u> / <u>05</u> / <u>01</u> MM DD YY	
Common Well Name _____		Final Static Water Level _____ Feet MSL		Surface Elevation _____ Feet MSL	
Boring Location State Plane <b>SW</b> 1/4 of <b>NW</b> 1/4 of Section <b>33</b> T <b>48</b> N, R <b>4</b> E		Lat _____ Long _____		Local Grid Location (If Applicable) <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S _____ Feet <input type="checkbox"/> W	
County <b>Ashland</b>		DNR County Code <b>0 2</b>		Civil Town / City / or Village <b>City of Ashland</b>	

Sample Number	Length Recovered (IN)	Blow Counts (N)	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					ROD/Comments	
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200		
			3	Water - Depth to sediment = 3.8'											
1	5		4	Wood chips, fibrous, surface sheen, strong odor.				43.3							
2	11		7	SAND, fine to medium grained, loose, trace coarse sand, poorly graded, reddish brown.				147.0							
3	12		9	-coarse, some gravel, dense, sheen present, strong odor, brown, 8.8-9.3 ft.	SP			89.7							
4	4		11	-medium grained, moderately dense, reddish brown, 9.3-10.8 ft.				14.3							
5	2		13	CLAY, some silt, stiff, moderate plasticity, reddish brown, moderate odor.	CL			8.6							
6	4		15												
			16	EOB at 15.8 ft. below water surface											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature _____	Firm <b>URS Corp., Madison, WI</b>
-----------------	------------------------------------

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**SOIL BORING LOG INFORMATION**

Form 4400-122

7-91

Route To:

- Solid Waste
- Wastewater
- Emergency Response
- Haz. Waste
- Underground Tanks
- Water Resources
- Other \_\_\_\_\_

Page 1 of 1

Facility / Project Name <b>NSP/Ashland Lakefront Site</b>		License/Permit/Monitoring Number _____		Boring Number <b>SD-55</b>	
Boring Drilled By (Firm name and name of crew chief) <b>Onsite Environmental, Tony Kapugi</b>		Date Drilling Started <u>03</u> / <u>05</u> / <u>01</u> MM DD YY	Date Drilling Completed <u>03</u> / <u>05</u> / <u>01</u> MM DD YY	Drilling Method <b>Track geoprobe</b>	
Boring Location State Plane <b>SW</b> 1/4 of <b>NW</b> 1/4 of Section <b>33</b> T <b>48</b> N, R <b>4</b> E	Common Well Name _____	Final Static Water Level _____ Feet MSL	Surface Elevation _____ Feet MSL	Borehole Diameter <b>2.0</b> inches	
Local Grid Location (If Applicable) <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W		County <b>Ashland</b>			
DNR County Code <b>0 2</b>		Civil Town / City / or Village <b>City of Ashland</b>			

Sample Number	Length Recovered (ft)	Blow Counts (N)	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					ROD/Comments	
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200		
			4	Water - Depth to sediment = 4.0 ft.											
1	4		5	WOOD CHIPS, fibrous, well decomposed, surface sheen, strong odor.				159.5							
2	17		7	SAND, some gravel, fine to medium grained, poorly graded, brown to dark brown, product emulsions, strong odor.	SP			172.0							
3	18		9	SILT, little fine sand, moderately soft, moderate odor, reddish brown, decreasing sand content with depth and increasing stiffness.	ML			15.1							
4	24		11	-some to little very fine sand, very hard, slight odor.				16.5							
5	24		13	-no odor, increasing fine sand content.				10.1							
			14	EOB at 14.0 ft. below water surface											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature \_\_\_\_\_ Firm **URS Corp., Madison, WI**

This form is authorized by Chapters 144.147 and 162, Wis. Stats. Completion of this report is mandatory. Penalties: Forfeit not less than \$10 nor more than \$4,000 for each violation. Fines not less than \$10 or more than \$100 or imprisoned not less than 30 days, or both for each violation. Each day of continued violation is a separate offense, pursuant to ss 144.99 and 162.06, Wis. Stats

Route To:

- Solid Waste
- Wastewater
- Emergency Response

- Haz. Waste
- Underground Tanks
- Water Resources
- Other \_\_\_\_\_

Facility / Project Name <b>NSP/Ashland Lakefront Site</b>		License/Permit/Monitoring Number _____		Boring Number <b>SD-56</b>	
Boring Drilled By (Firm name and name of crew chief) <b>Onsite Environmental, Tony Kapugi</b>		Date Drilling Started <b>03 / 05 / 01</b> MM DD YY	Date Drilling Completed <b>03 / 05 / 01</b> MM DD YY	Drilling Method <b>Track geoprobe</b>	
DNR Facility No. _____	DNR Permit No. _____	Common Well Name _____	Final Static Water Level _____ Feet MSL	Surface Elevation _____ Feet MSL	Borehole Diameter <b>2.0</b> inches
Boring Location State Plane N. _____ E S/C/N _____ <b>SW</b> 1/4 of <b>NW</b> 1/4 of Section <b>33</b> T <b>48</b> N, R <b>4</b> E		Lat _____ Long _____	Local Grid Location (if Applicable) <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S _____ Feet <input type="checkbox"/> W _____ Feet		
County <b>Ashland</b>		DNR County Code <b>0 2</b>	Civil Town / City / or Village <b>City of Ashland</b>		

Sample Number	Length Recovered (IN)	Blow Counts (N)	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					ROD/Comments	
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200		
			3	Water - Depth to sediment = 3.5 ft.											
1	6		4	WOOD CHIPS, fibrous, decomposed, some silt, moderate odor.				98.2							
			5	-as above, increasing silt content, strong odor, product emulsions.											
2	10		6					98.3							
			7	SAND, coarse to medium grained, loose, poorly graded, dark brown, product emulsions, strong odor.	SP										
3	15		8	SILT, firm, moderate odor, reddish brown.				130.5							
			9												
4	20		10		ML			14.8							
			11	-as above, no odor											
			12	EOB at 11.5 ft. below water surface											
			13												
			14												
			15												
			16												

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature \_\_\_\_\_ Firm **URS Corp., Madison, WI**

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Route To:

- Solid Waste
- Wastewater
- Emergency Response

- Haz. Waste
- Underground Tanks
- Water Resources
- Other \_\_\_\_\_

Facility / Project Name <b>NSP/Ashland Lakefront Site</b>		License/Permit/Monitoring Number _____		Boring Number <b>SD-57</b>	
Boring Drilled By (Firm name and name of crew chief) <b>Onsite Environmental, Tony Kapugi</b>		Date Drilling Started <u>03</u> / <u>02</u> / <u>01</u> MM DD YY		Date Drilling Completed <u>03</u> / <u>02</u> / <u>01</u> MM DD YY	
Common Well Name _____		Final Static Water Level _____ Feet MSL		Surface Elevation _____ Feet MSL	
Boring Location State Plane _____ N _____ E S/C/N		Lat _____		Local Grid Location (If Applicable) <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S _____ Feet <input type="checkbox"/> W	
SW 1/4 of NW 1/4 of Section <u>33</u> T <u>48</u> N, R <u>4</u> E		Long _____		_____ Feet	
County <b>Ashland</b>		DNR County Code <u>0</u> <u>2</u>		Civil Town / City / or Village <b>City of Ashland</b>	

Sample Number	Length Recovered (IN)	Blow Counts (N)	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					ROD/Comments	
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200		
				Water - Depth to sediment = 0.7'											
1	10		1	<b>WOOD CHIPS</b> SAND, loose, organic, wood chips decomposed, coarse grained, moderate odor, black.	SP			17.4							
2	10		3	WOOD, timber, well preserved, strong odor, black.  -As above, wood fragments				90.9							
3	10		5	SAND, fine to medium grained, medium dense, poorly graded, brown, moderate to slight odor.  As above, coarse below 6.7'.	SP			118 19.8							
4	17		8	CLAY, silty, hard, low plasticity, no odor, reddish brown.	CL			9.1							
			10	EOB at 8.7 ft. below water surface											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature \_\_\_\_\_ Firm **URS Corp., Madison, WI**

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Route To:

- Solid Waste
- Wastewater
- Emergency Response

- Haz Waste
- Underground Tanks
- Water Resources
- Other \_\_\_\_\_

Facility / Project Name <b>NSP/Ashland Lakefront Site</b>		License/Permit/Monitoring Number _____		Boring Number <b>SD-58</b>	
Boring Drilled By (Firm name and name of crew chief) <b>Onsite Environmental, Tony Kapugi</b>		Date Drilling Started <u>03</u> / <u>02</u> / <u>01</u> MM DD YY	Date Drilling Completed <u>03</u> / <u>02</u> / <u>01</u> MM DD YY	Drilling Method <b>Track geoprobe</b>	
DNR Permit No. _____	DNR Permit No. _____	Common Well Name _____	Final Static Water Level _____ Feet MSL	Surface Elevation _____ Feet MSL	Borehole Diameter <b>2.0</b> inches
Boring Location State Plane N. _____ E S/C/N _____ <b>SW</b> 1/4 of <b>NW</b> 1/4 of Section <b>33</b> T <b>48</b> N, R <b>4</b> E		Lat _____ Long _____	Local Grid Location (If Applicable) <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W		
County <b>Ashland</b>		DNR County Code <b>0 2</b>	Civil Town / City / or Village <b>City of Ashland</b>		

Sample Number	Length Recovered (ft)	Blow Counts (N)	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					ROD/Comments	
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200		
			1	Water - Depth to sediment = 1.5'											
1	10		2	WOOD CHIPS, well preserved, some black staining, odor.				69.9							
2	10		4					18.2							
3	10		6	SAND, medium grained, medium dense, poorly graded, brown, moderate odor.	SP			35.9							
4	17		8	SILT, sandy, some gravel, dense, non-plastic, brown.	ML			3.5							
			10	EOB at 9.5 ft. below water surface											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature \_\_\_\_\_ Firm **URS Corp., Madison, WI**

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Route To:

- Solid Waste
- Wastewater
- Emergency Response

- Haz. Waste
- Underground Tanks
- Water Resources
- Other \_\_\_\_\_

Facility / Project Name <b>NSP/Ashland Lakefront Site</b>		License/Permit/Monitoring Number _____	Boring Number <b>SD-59</b>
Boring Drilled By (Firm name and name of crew chief) <b>Onsite Environmental, Tony Kapugi</b>		Date Drilling Started <u>03</u> / <u>05</u> / <u>01</u> MM DD YY	Date Drilling Completed <u>03</u> / <u>05</u> / <u>01</u> MM DD YY
Common Well Name _____		Final Static Water Level _____ Feet MSL	Surface Elevation _____ Feet MSL
Boring Location State Plane _____ N _____ E S/C/N		Lat _____	Local Grid Location (If Applicable) <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W
SW 1/4 of NW 1/4 of Section <u>33</u> T <u>48</u> N, R <u>4</u> E		Long _____	_____ Feet _____ Feet
County <b>Ashland</b>	DNR County Code <b>0 2</b>	Civil Town / City / or Village <b>City of Ashland</b>	

Sample Number	Length Recovered (IN)	Blow Counts (N)	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					ROD/Comments	
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200		
			3	Water - Depth to sediment = 3.0 ft.											
1	17		4	WOOD CHIPS, well preserved, no odor.				12.1							
2	16		5	-as above, more decomposed, product emulsions, strong odor.				22.3							
3	18		6												
			7	SAND, coarse to medium grained, little fine sand, loose, poorly graded, brown to reddish brown, sheen, strong odor.	SP			4.6							
4	20		8	SILT, sandy, fine grained, moderately hard, slight odor.	ML			0.9							
			9	-as above, no odor.											
			10												
			11	EOB at 11.0 ft. below water surface											
			12												
			13												
			14												
			15												
			16												

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature \_\_\_\_\_ Firm **URS Corp., Madison, WI**

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**APPENDIX B**

**TEST AMERICA LABORATORY REPORTS  
SEDIMENT SAMPLES**

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**APPENDIX B**

**TEST AMERICA LABORATORY REPORTS  
PHYSICAL PROPERTIES OF SEDIMENT SAMPLES**

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## ANALYTICAL AND QUALITY CONTROL REPORT

Mr. Dave Trainor  
 URS/DAMES & MOORE  
 5250 East Terrace Drive  
 Suite I  
 Madison, WI 53718

04/25/2001  
 Job No: 01.01220  
 Page 1 of 5

Enclosed are the Analytical and Quality Control reports for the following samples submitted for analysis:

Sample Number	Sample Description	Date Taken	Date Received
428410	SD-11 05644-0971 NSP/XCEL	03/05/2001	03/05/2001
428411	SD-23 05644-0971 NSP/XCEL	03/05/2001	03/05/2001
428412	SD-30 05644-0971 NSP/XCEL	03/05/2001	03/05/2001
428413	SD-3 05644-0971 NSP/XCEL	03/05/2001	03/05/2001
428414	SD-53 05644-0971 NSP/XCEL	03/05/2001	03/05/2001
429079	SD8-06 XCEL		03/09/2001
429080	SD46-06 XCEL		03/09/2001
429081	SD36-06 XCEL		03/09/2001
429082	SD47-04 XCEL		03/09/2001
429083	SD07-04 XCEL		03/09/2001
429084	SD27-04 XCEL		03/09/2001

Soil results are reported on a dry weight basis. The above sample(s) may have a result flag shown on the report. The following are the result flag definitions:

- |  |  |
|--|--|
| A = Analyzed/extracted past hold time  | B = Blank is contaminated              |
| C = Standard outside of control limits | D = Diluted for analysis               |
| F = Sample filtered in lab             | G = Received past hold time            |
| H = Late eluting hydrocarbons present  | I = Improperly handled sample          |
| J = Estimated concentration            | L = Common lab solvent and contaminant |
| M = Matrix interference                | P = Improperly preserved sample        |
| Q = Result confirmed via re-analysis   | S = Sediment present                   |
| T = Does not match typical pattern     | W = BOD re-set due to missed dilution  |
| X = Unidentified compound(s) present   | Z = Internal standard outside limits   |

*Karen R. Wentz*  
 Karen R. Wentz  
 Inorganic Operations Manager

## ANALYTICAL REPORT

Mr. Dave Trainor  
 URS/DAMES & MOORE  
 5250 East Terrace Drive  
 Suite I  
 Madison, WI 53718

04/25/2001  
 Job No: 01.01220  
 Account No: 21400  
 Purchase Order:  
 Page 2 of 5

Job Description: 05644-0971 NSP/XCEL

Date/Time Taken: SEE BELOW SEE BELOW Date Received: 03/05/2001

Parameter	Results	Units	Reporting Limit	Method	Date Analyzed	Prep/Run Batch
428410 SD-11 05644-0971 NSP/XCEL					03/05/2001 UNKNOWN	
Misc. Inorganic - Nonaqueous Solids, Total	Complete 83.7	%	n/a	SW 5030	04/25/2001 04/25/2001	20 3646
428411 SD-23 05644-0971 NSP/XCEL					03/05/2001 UNKNOWN	
Misc. Inorganic - Nonaqueous Solids, Total	Complete 82.0	%	n/a	SW 5030	04/25/2001 04/25/2001	20 3646
428412 SD-30 05644-0971 NSP/XCEL					03/05/2001 UNKNOWN	
Misc. Inorganic - Nonaqueous Solids, Total	Complete 77.7	%	n/a	SW 5030	04/25/2001 04/25/2001	20 3646
428413 SD-3 05644-0971 NSP/XCEL					03/05/2001 UNKNOWN	
Misc. Inorganic - Nonaqueous Solids, Total	Complete 78.4	%	n/a	SW 5030	04/25/2001 04/25/2001	20 3646
428414 SD-53 05644-0971 NSP/XCEL					03/05/2001 UNKNOWN	
Misc. Inorganic - Nonaqueous Solids, Total	Complete 80.8	%	n/a	SW 5030	04/25/2001 04/25/2001	20 3646

## ANALYTICAL REPORT

Mr. Dave Trainor  
 URS/DAMES & MOORE  
 5250 East Terrace Drive  
 Suite I  
 Madison, WI 53718

04/25/2001  
 Job No: 01.01375  
 Account No: 21400  
 Purchase Order:  
 Page 3 of 5

Job Description: XCEL-Ashland  
 Rec'd on ice

Date/Time Taken: SEE BELOW    SEE BELOW    Date Received: 03/09/2001

Parameter	Results	Units	Reporting Limit	Method	Date Analyzed	Prep/Run Batch
429079 SD8-06 XCEL			UNKNOWN	UNKNOWN		
Misc. Inorganic - Nonaqueous Solids, Total	Complete 83.8	%	n/a	SW 5030	04/25/2001 04/25/2001	20 3646
429080 SD46-06 XCEL			UNKNOWN	UNKNOWN		
Misc. Inorganic - Nonaqueous Solids, Total	Complete 81.8	%	n/a	SW 5030	04/25/2001 04/25/2001	20 3646
429081 SD36-06 XCEL			UNKNOWN	UNKNOWN		
Misc. Inorganic - Nonaqueous Solids, Total	Complete 84.8	%	n/a	SW 5030	04/25/2001 04/25/2001	20 3646
429082 SD47-04 XCEL			UNKNOWN	UNKNOWN		
Misc. Inorganic - Nonaqueous Solids, Total	Complete 80.4	%	n/a	SW 5030	04/25/2001 04/25/2001	20 3646
429083 SD07-04 XCEL			UNKNOWN	UNKNOWN		
Misc. Inorganic - Nonaqueous Solids, Total	Complete 82.9	%	n/a	SW 5030	04/25/2001 04/25/2001	20 3646

## ANALYTICAL REPORT

Mr. Dave Trainor  
URS/DAMES & MOORE  
5250 East Terrace Drive  
Suite I  
Madison, WI 53718

04/25/2001  
Job No: 01.01375  
Account No: 21400  
Purchase Order:  
Page 4 of 5

Job Description: XCEL-Ashland  
Rec'd on ice

Date/Time Taken: SEE BELOW    SEE BELOW    Date Received: 03/09/2001

Parameter	Results	Units	Reporting Limit	Method	Date Analyzed	Prep/Run Batch
429084 SD27-04 XCEL			UNKNOWN	UNKNOWN		
Misc. Inorganic - Nonaqueous Solids, Total	Complete 85.5	%	n/a	SW 5030	04/25/2001 04/25/2001	20 3646

## QUALITY CONTROL REPORT DUPLICATES

Mr. Dave Trainor  
URS/DAMES & MOORE  
5250 East Terrace Drive  
Suite I  
Madison, WI 53718

04/25/2001

Job No: 01.01375  
Account No: 21400

Page 5 of 5

Job Description: XCEL-Ashland

Parameter	Prep Batch Number	Run Batch Number	Sample Value	Duplicate Value	Units	RPD	Control Limit
Solids, Total		3646	80.8	80.8	%	0.0	

### Sediment Analysis

Sample Identity	Sample Number	Total Weight	Total Volume	Container Weight	Density	Percent Solids	Sediment	Water	Oil	Comment
SD8-06	429079	547	224	65	2.15	83.8	100%	0%	0%	No color in xylenes
SD46-06	429080	417	178	56	2.03	81.8	100%	0%	0%	Slight color in xylenes
SD36-06	429081	485	212	60	2.00	84.8	98%	0%	2%	Brown oil in xylenes
SD47-06	429082	444	192	62	1.99	80.4	98%	0%	2%	Brown oil in xylenes
SD07-04	429083	474	214	59	1.94	82.9	100%	0%	0%	No color in xylenes
SD27-04	429084	440	174	58	2.20	85.5	95%	0%	5%	Brown oil in xylenes
SD11-06	428410	316	132	53	1.99	83.7	100%	0%	0%	No color in xylenes
SD23-08	428411	316	128	49	2.09	82	100%	0%	0%	No color in xylenes
SD3004	428412	612	262	71	2.06	77.7	100%	0%	0%	Slight color in xylenes
SD3-04	428413	355	152	51	2.00	78.4	100%	0%	0%	Slight color in xylenes
SD53-04	428414	558	240	70	2.03	80.8	99%	0%	1%	Some color in xylenes

01.01220  
01.01375

01.01575

# TestAmerica

INCORPORATED

Watertown Division  
602 Commerce Drive  
Watertown, WI 53094

Phone: 920-261-1660  
Fax: 920-261-8120

To assist us in using the proper analytical methods,  
is this work being conducted for regulatory purposes?  
Compliance Monitoring \_\_\_\_\_

Client Name: WKS Corp Client #: \_\_\_\_\_  
Address: 5250 G. Terrace Dr. Ste I  
City/State/Zip Code: Madison - WI 53718  
Project Manager: Dave Trainor  
Telephone Number: 6082445656 Fax: 6082441779  
Sampler Name: (Print Name) Benjamin Nelson  
Sampler Signature: [Signature]

Project Name: Xcel - Ashland  
Project #: \_\_\_\_\_  
Site/Location ID: \_\_\_\_\_ State: \_\_\_\_\_  
Report To: \_\_\_\_\_  
Invoice To: \_\_\_\_\_  
Quote #: \_\_\_\_\_ PO#: \_\_\_\_\_

TAT <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush (surcharges may apply)	Date Needed: _____	Fax Results: <input checked="" type="radio"/> Y <input type="radio"/> N	Date Sampled	Time Sampled	G = Grab, C = Composite	Field Filtered	Matrix	Preservation & # of Containers							Analyze For:	QC Deliverables <input type="checkbox"/> None <input type="checkbox"/> Level 2 (Batch QC) <input type="checkbox"/> Level 3 <input type="checkbox"/> Level 4 Other: _____	REMARKS	
							SL - Sludge GW - Groundwater WW - Wastewater Specify Other	DW - Drinking Water S - Soil/Solid Specify Other	HNO <sub>3</sub>	HCl	NaOH	H <sub>2</sub> SO <sub>4</sub>	Methanol	None				Other (Specify)
							Sed											

Special Instructions: Same analyses as cores submitted last week. - call with questions

Relinquished By: <u>[Signature]</u>	Date: <u>3-9-01</u>	Time: <u>0900</u>	Received By: <u>[Signature]</u>	Date: <u>3/9/01</u>	Time: <u>0900</u>
Relinquished By: <u>[Signature]</u>	Date: <u>3/9/01</u>	Time: <u>1200</u>	Received By: _____	Date: _____	Time: _____
Relinquished By: _____	Date: _____	Time: _____	Received By: <u>CB</u>	Date: <u>3/9/01</u>	Time: <u>15:40</u>

LABORATORY COMMENTS:

Init Lab Temp: [Signature]

Rec Lab Temp: \_\_\_\_\_

Custody Seals:  Y  N  N/A

Bottles Supplied by TestAmerica:  Y  N

Method of Shipment: TA

23/9/01

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**APPENDIX C**

**TEST AMERICA LABORATORY REPORTS  
PHYSICAL PROPERTIES OF SEDIMENT SAMPLES**

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**APPENDIX C**

**META ENVIRONMENTAL LABORATORY REPORTS  
SEDIMENT SAMPLES**

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## FAX TRANSMITTAL SHEET

**TO:** URS Corporation  
**ADDRESS:** 5250 East Terrace Drive, Suite 1  
Madison, WI 53718

**ATTENTION:** Mr. David Trainor

**PHONE:** (608) 244-5656

**FAX:** (608) 244-1779

**TOTAL PAGES (INCLUDING COVER SHEET):** 27

**SENT BY:** David M. Mauro

**DATE:** 4/25/2001 2:41 PM

**COMMENTS:** Dave,

These are the data sheets for the Ashland sediments that Diane said to FAX to you. If you need anything else, please don't hesitate to call me.

**Analytical Results for Volatile and Semivolatile Organics  
META Environmental, Inc.**

**Field ID: SD54-4**

Client: GTI  
Project: NSP-Ashland

Lab ID: IG010309-01a  
File ID: 30MAR10.D

Date Sampled: 3/5/01  
Date Received: 3/8/01  
Date Prepared: 3/8/01  
Date Cleanup: 3/8/01  
Date Analyzed: 3/30/01  
Instrument: GC-2/MS  
Operator: kty

Preparation Method: Solvent Ext. (EPA3570Draft)

Cleanup Method(s):

Analysis Method: GC/MS (EPA 8260/8270 Mod.)  
Matrix: Soil  
Preservation: None  
Decanted: No

Sample Size: 1.819 g  
%Solid: 75%  
Extract Volume: 2 mL  
Prep DF: 1  
Analysis DF: 1  
Injection Volume: 0.001 mL

Batch QC: CW010309-SB

Analyte:	Concentration mg/kg	Q	RL mg/kg	DL mg/kg	Comments
<b>PAH COMPOUNDS:</b>					
Benzene	2.38		0.15	0.07	
Toluene	4.88		0.15	0.07	
Ethylbenzene	23.0		0.15	0.07	
m/p-Xylenes	16.0		0.15	0.07	
Styrene	0.58		0.15	0.07	
o-Xylene	8.37		0.15	0.07	
1,2,4-Trimethylbenzene	16.4		0.15	0.07	
Naphthalene	318	D	0.15	0.07	
2-Methylnaphthalene	258	D	0.15	0.07	
1-Methylnaphthalene	114		0.15	0.07	
Acenaphthylene	9.36		0.15	0.07	
Acenaphthene	101		0.15	0.07	
Dibenzofuran	10.2		0.15	0.07	
Fluorene	47.5		0.15	0.07	
Phenanthrene	107		0.15	0.07	
Anthracene	47.6		0.15	0.07	
Fluoranthene	42.1		0.15	0.07	
Pyrene	57.5		0.15	0.07	
Benz[a]anthracene	21.3		0.15	0.07	
Chrysene	19.7		0.15	0.07	
Benzo[b]fluoranthene	8.72		0.15	0.07	
Benzo[k]fluoranthene	10.7		0.15	0.07	
Benzo[a]pyrene	19.4		0.15	0.07	
Indeno[1,2,3-cd]pyrene	9.02		0.15	0.07	
Dibenz[a,h]anthracene	1.57		0.15	0.07	
Benzo[g,h,i]perylene	8.17		0.15	0.07	
<b>ALKYLATED PAHs:</b>					
C0-Benzene	2.38		0.15	0.07	
C1-Benzene	5.58		0.15	0.07	
C2-Benzene	58.3		0.15	0.07	
C3-Benzene	76.9		0.15	0.07	
C4-Benzene	90.4		0.15	0.07	
C5-Benzene	13.6		0.15	0.07	
C0-Naphthalene	318	D	0.15	0.07	
C1-Naphthalene	280	D	0.15	0.07	
C2-Naphthalene	160		0.15	0.07	
C3-Naphthalene	47.1		0.15	0.07	
C4-Naphthalene	13.6		0.15	0.07	
C0-Fluorene	47.5		0.15	0.07	
C1-Fluorene	57.3		0.15	0.07	
C2-Fluorene	18.1		0.15	0.07	
C3-Fluorene	6.77		0.15	0.07	
C0-Phenanthrene/Anthracene	149		0.15	0.07	
C1-Phenanthrene/Anthracene	80.3		0.15	0.07	
C2-Phenanthrene/Anthracene	28.9		0.15	0.07	
C3-Phenanthrene/Anthracene	7.41		0.15	0.07	
C4-Phenanthrene/Anthracene	4.94		0.15	0.07	

**Analytical Results for Volatile and Semivolatile Organics**  
**META Environmental, Inc.**

<b>Field ID:</b>	<b>SD54-4</b>	<b>Preparation Method:</b>	Solvent Exl. (EPA3570Draft)
<b>Client:</b>	GTI	<b>Cleanup Method(s):</b>	
<b>Project:</b>	NSP-Ashland	<b>Analysis Method:</b>	GC/MS (EPA 8260/8270 Mod.)
<b>Lab ID:</b>	IG010309-01a	<b>Matrix:</b>	Soil
<b>File ID:</b>	30MAR10.D	<b>Preservation:</b>	None
<b>Date Sampled:</b>	3/5/01	<b>Decanted:</b>	No
<b>Date Received:</b>	3/9/01	<b>Sample Size:</b>	1.819 g
<b>Date Prepared:</b>	3/9/01	<b>%Solid:</b>	75%
<b>Date Cleanup:</b>		<b>Extract Volume:</b>	2 mL
<b>Date Analyzed:</b>	3/30/01	<b>Prep DF:</b>	1
<b>Instrument:</b>	GC-2/MS	<b>Analysis DF:</b>	1
<b>Operator:</b>	ky	<b>Injection Volume:</b>	0.001 mL
		<b>Batch QC:</b>	CW010309-SB

Analyte:	Concentration mg/kg	Q	RL mg/kg	DL mg/kg	Comments
C0-Dibenzothiophene	14.4		0.15	0.07	
C1-Dibenzothiophene	14.7		0.15	0.07	
C2-Dibenzothiophene	10.3		0.15	0.07	
C3-Dibenzothiophene	4.78		0.15	0.07	
C0-Fluoranthene/Pyrene	103		0.15	0.07	
C1-Fluoranthene/Pyrene	56.1		0.15	0.07	
C2-Fluoranthene/Pyrene	15.0		0.15	0.07	
C3-Fluoranthene/Pyrene	2.99		0.15	0.07	
C0-Benz(a)anthracene/Chrysene	41.2		0.15	0.07	
C1-Benz(a)anthracene/Chrysene	13.9		0.15	0.07	
C2-Benz(a)anthracene/Chrysene	4.22		0.15	0.07	
C3-Benz(a)anthracene/Chrysene	1.47		0.15	0.07	
C4-Benz(a)anthracene/Chrysene	0.32		0.15	0.07	
Surrogates	%R		Min	Max	
Fluorobenzene	60%		50%	150%	
2-Fluorobiphenyl	79%		50%	120%	
5 $\alpha$ -Androstane	75%		50%	120%	

**Qualifiers:**

B Analyte detected in the blank

D Analyte reported from a diluted extract

U Undetected above the detection limit

J Estimated value detected between the reporting and detection limits

E Estimated value detected above calibration range

RL Reporting limit is the sample equivalent of the lowest linear calibration concentration

EDL Estimated detection limit is 50% of the RL

### Analytical Results for Volatile and Semivolatile Organics META Environmental, Inc.

**Field ID:** SD9-4  
**Client:** GTI  
**Project:** NSP-Ashland  
**Lab ID:** IG010309-02a  
**File ID:** 31MAR08.D  
**Date Sampled:** 3/7/01  
**Date Received:** 3/9/01  
**Date Prepared:** 3/9/01  
**Date Cleanup:**  
**Date Analyzed:** 3/31/01  
**Instrument:** GC-2/MS  
**Operator:** kty

**Preparation Method:** Solvent Ext. (EPA3570Draft)  
**Cleanup Method(s):**  
**Analysis Method:** GC/MS (EPA 8260/8270 Mod.)  
**Matrix:** Soil  
**Preservation:** None  
**Decanted:** No  
**Sample Size:** 1.933 g  
**%Solid:** 54%  
**Extract Volume:** 2 mL  
**Prep DF:** 1  
**Analysis DF:** 1  
**Injection Volume:** 0.001 mL  
**Batch QC:** CW010309-SB

Analyte:	Concentration mg/kg	Q	RL mg/kg	DL mg/kg	Comments
<b>PAH COMPOUNDS:</b>					
Benzene		U	0.19	0.10	
Toluene	0.70		0.19	0.10	
Ethylbenzene	6.33		0.19	0.10	
m/p-Xylenes	5.99		0.19	0.10	
Styrene	0.80		0.19	0.10	
o-Xylene	3.18		0.19	0.10	
1,2,4-Trimethylbenzene	10.7		0.19	0.10	
Naphthalene	116		0.19	0.10	
2-Methylnaphthalene	117		0.19	0.10	
1-Methylnaphthalene	90.0		0.19	0.10	
Acenaphthylene	8.67		0.19	0.10	
Acenaphthene	75.1		0.19	0.10	
Dibenzofuran	9.97		0.19	0.10	
Fluorene	38.2		0.19	0.10	
Phenanthrene	94.2		0.19	0.10	
Anthracene	41.2		0.19	0.10	
Fluoranthene	41.0		0.19	0.10	
Pyrene	54.3		0.19	0.10	
Benz[a]anthracene	22.6		0.19	0.10	
Chrysene	20.3		0.19	0.10	
Benzo[b]fluoranthene	10.7		0.19	0.10	
Benzo[k]fluoranthene	10.4		0.19	0.10	
Benzo[a]pyrene	19.4		0.19	0.10	
Indeno[1,2,3-cd]pyrene	9.04		0.19	0.10	
Dibenz[a,h]anthracene	1.71		0.19	0.10	
Benzo[g,h,i]perylene	8.11		0.19	0.10	
<b>ALKYLATED PAHs:</b>					
C0-Benzene		U	0.19	0.10	
C1-Benzene	0.80		0.19	0.10	
C2-Benzene	19.2		0.19	0.10	
C3-Benzene	49.2		0.19	0.10	
C4-Benzene	62.6		0.19	0.10	
C5-Benzene	8.78		0.19	0.10	
C0-Naphthalene	116		0.19	0.10	
C1-Naphthalene	127		0.19	0.10	
C2-Naphthalene	110		0.19	0.10	
C3-Naphthalene	31.8		0.19	0.10	
C4-Naphthalene	9.28		0.19	0.10	
C0-Fluorene	38.2		0.19	0.10	
C1-Fluorene	44.2		0.19	0.10	
C2-Fluorene	12.8		0.19	0.10	
C3-Fluorene	3.58		0.19	0.10	
C0-Phenanthrene/Anthracene	131		0.19	0.10	
C1-Phenanthrene/Anthracene	69.1		0.19	0.10	
C2-Phenanthrene/Anthracene	22.5		0.19	0.10	
C3-Phenanthrene/Anthracene	4.47		0.19	0.10	
C4-Phenanthrene/Anthracene	4.46		0.19	0.10	

**Analytical Results for Volatile and Semivolatile Organics**  
**META Environmental, Inc.**

<b>Field ID:</b>	<b>SD9-4</b>	<b>Preparation Method:</b>	Solvent Ext. (EPA3570Draft)
<b>Client:</b>	GTI	<b>Cleanup Method(s):</b>	
<b>Project:</b>	NSP-Ashland	<b>Analysis Method:</b>	GC/MS (EPA 8260/8270 Mod.)
<b>Lab ID:</b>	IG010309-02a	<b>Matrix:</b>	Soil
<b>File ID:</b>	31MAR08.D	<b>Preservation:</b>	None
<b>Date Sampled:</b>	3/7/01	<b>Decanted:</b>	No
<b>Date Received:</b>	3/9/01	<b>Sample Size:</b>	1.933 g
<b>Date Prepared:</b>	3/9/01	<b>%Solid:</b>	54%
<b>Date Cleanup:</b>		<b>Extract Volume:</b>	2 mL
<b>Date Analyzed:</b>	3/31/01	<b>Prep DF:</b>	1
<b>Instrument:</b>	GC-2/MS	<b>Analysis DF:</b>	1
<b>Operator:</b>	ky	<b>Injection Volume:</b>	0.001 mL
		<b>Batch QC:</b>	CW010309-SB

Analyte:	Concentration mg/kg	Q	RL mg/kg	DL mg/kg	Comments
C0-Dibenzothiophene	12.3		0.19	0.10	
C1-Dibenzothiophene	11.8		0.19	0.10	
C2-Dibenzothiophene	7.12		0.19	0.10	
C3-Dibenzothiophene	3.00		0.19	0.10	
C0-Fluoranthene/Pyrene	98.2		0.19	0.10	
C1-Fluoranthene/Pyrene	65.6		0.19	0.10	
C2-Fluoranthene/Pyrene	15.2		0.19	0.10	
C3-Fluoranthene/Pyrene	2.75		0.19	0.10	
C0-Benz(a)anthracene/Chrysene	43.1		0.19	0.10	
C1-Benz(a)anthracene/Chrysene	14.1		0.19	0.10	
C2-Benz(a)anthracene/Chrysene	3.89		0.19	0.10	
C3-Benz(a)anthracene/Chrysene	1.42		0.19	0.10	
C4-Benz(a)anthracene/Chrysene	0.35		0.19	0.10	
<b>Surrogates</b>					
	%R		Min	Max	
Fluorobenzene	54%		50%	150%	
2-Fluorobiphenyl	75%		50%	120%	
5 $\alpha$ -Androstane	72%		50%	120%	

**Qualifiers:**

B Analyte detected in the blank  
D Analyte reported from a diluted extract  
U Undetected above the detection limit  
J Estimated value detected between the reporting and detection limits  
E Estimated value detected above calibration range  
RL Reporting limit is the sample equivalent of the lowest linear calibration concentration  
EDL Estimated detection limit is 50% of the RL

Analytical Results for Volatile and Semivolatile Organics  
META Environmental, Inc.

Field ID: SD50-10

Client: GTI  
Project: NSP-Ashland

Lab ID: IG010309-03a  
File ID: 31MAR10.D

Date Sampled: 3/7/01  
Date Received: 3/9/01  
Date Prepared: 3/9/01  
Date Cleanup:   
Date Analyzed: 3/31/01  
Instrument: GC-2/MS  
Operator: kty

Preparation Method: Solvent Ext. (EPA3570Draft)

Cleanup Method(s):

Analysis Method: GCMS (EPA 8260/8270 Mod.)  
Matrix: Soil  
Preservation: None  
Decanted: No

Sample Size: 2.162 g  
%Solid: 85%  
Extract Volume: 2 mL  
Prep DF: 1  
Analysis DF: 1  
Injection Volume: 0.001 mL

Batch QC: CWD10309-SB

Analyte:	Concentration mg/kg	Q	RL mg/kg	DL mg/kg	Comments
<b>PAH COMPOUNDS:</b>					
Benzene	0.64		0.11	0.05	
Toluene	7.76		0.11	0.05	
Ethylbenzene	28.4		0.11	0.05	
m/p-Xylenes	27.0		0.11	0.05	
Styrene	3.28		0.11	0.05	
o-Xylene	14.3		0.11	0.05	
1,2,4-Trimethylbenzene	31.7		0.11	0.05	
Naphthalene	859	D	0.11	0.05	
2-Methylnaphthalene	733	D	0.11	0.05	
1-Methylnaphthalene	548	D	0.11	0.05	
Acenaphthylene	72.6		0.11	0.05	
Acenaphthene	102		0.11	0.05	
Dibenzofuran	25.7		0.11	0.05	
Fluorene	77.3		0.11	0.05	
Phenanthrene	541	D	0.11	0.05	
Anthracene	211		0.11	0.05	
Fluoranthene	69.9		0.11	0.05	
Pyrene	90.9		0.11	0.05	
Benz[a]anthracene	36.9		0.11	0.05	
Chrysene	33.8		0.11	0.05	
Benzo[b]fluoranthene	14.8		0.11	0.05	
Benzo[k]fluoranthene	19.4		0.11	0.05	
Benzo[a]pyrene	32.0		0.11	0.05	
Indeno[1,2,3-cd]pyrene	18.3		0.11	0.05	
Dibenz[a,h]anthracene	3.89		0.11	0.05	
Benzo[g,h,i]perylene	15.4		0.11	0.05	
<b>ALKYLATED PAHs:</b>					
C0-Benzene	0.64		0.11	0.05	
C1-Benzene	8.64		0.11	0.05	
C2-Benzene	83.9		0.11	0.05	
C3-Benzene	143		0.11	0.05	
C4-Benzene	124		0.11	0.05	
C5-Benzene	21.5		0.11	0.05	
C0-Naphthalene	859	D	0.11	0.05	
C1-Naphthalene	781	D	0.11	0.05	
C2-Naphthalene	222		0.11	0.05	
C3-Naphthalene	67.4		0.11	0.05	
C4-Naphthalene	21.0		0.11	0.05	
C0-Fluorene	77.3		0.11	0.05	
C1-Fluorene	113		0.11	0.05	
C2-Fluorene	29.7		0.11	0.05	
C3-Fluorene	10.6		0.11	0.05	
C0-Phenanthrene/Anthracene	729	D	0.11	0.05	
C1-Phenanthrene/Anthracene	133		0.11	0.05	
C2-Phenanthrene/Anthracene	45.4		0.11	0.05	
C3-Phenanthrene/Anthracene	9.26		0.11	0.05	
C4-Phenanthrene/Anthracene	8.24		0.11	0.05	

**Analytical Results for Volatile and Semivolatile Organics**  
**META Environmental, Inc.**

**Field ID: SD50-10**

**Preparation Method: Solvent Ext. (EPA3570Draft)**

**Cleanup Method(s):**

**Client: GTI**  
**Project: NSP-Ashland**

**Analysis Method: GC/MS (EPA 8260/8270 Mod.)**

**Metric: Soil**

**Preservation: None**

**Decanted: No**

**Lab ID: IG010309-03a**  
**File ID: 31MAR10.D**

**Sample Size: 2.162 g**

**%Solid: 85%**

**Extract Volume: 2 mL**

**Prep DF: 1**

**Analysis DF: 1**

**Injection Volume: 0.001 mL**

**Date Sampled: 3/7/01**

**Date Received: 3/9/01**

**Date Prepared: 3/9/01**

**Date Cleanup:**

**Date Analyzed: 3/31/01**

**Instrument: GC-2/MS**

**Operator: kty**

**Batch QC: CW010309-SB**

Analyte:	Concentration mg/kg	Q	RL mg/kg	DL mg/kg	Comments
C0-Dibenzothiophene	25.7		0.11	0.05	
C1-Dibenzothiophene	25.5		0.11	0.05	
C2-Dibenzothiophene	16.1		0.11	0.05	
C3-Dibenzothiophene	6.70		0.11	0.05	
C0-Fluoranthene/Pyrene	166		0.11	0.05	
C1-Fluoranthene/Pyrene	104		0.11	0.05	
C2-Fluoranthene/Pyrene	28.4		0.11	0.05	
C3-Fluoranthene/Pyrene	5.26		0.11	0.05	
C0-Benz(a)anthracene/Chrysene	71.0		0.11	0.05	
C1-Benz(a)anthracene/Chrysene	25.0		0.11	0.05	
C2-Benz(a)anthracene/Chrysene	6.57		0.11	0.05	
C3-Benz(a)anthracene/Chrysene	2.08		0.11	0.05	
C4-Benz(a)anthracene/Chrysene	0.58		0.11	0.05	
Surrogates	%R		Min	Max	
Fluorobenzene	61%		50%	150%	
2-Fluorobiphenyl	78%		50%	120%	
5 $\alpha$ -Androstane	68%		50%	120%	

**Qualifiers:**

B	Analyte detected in the blank
D	Analyte reported from a diluted extract
U	Undetected above the detection limit
J	Estimated value detected between the reporting and detection limits
E	Estimated value detected above calibration range
RL	Reporting limit is the sample equivalent of the lowest linear calibration concentration
EDL	Estimated detection limit is 50% of the RL



**Analytical Results for Volatile and Semivolatile Organics**  
**META Environmental, Inc.**

**Field ID: SD51-8**

**Preparation Method: Solvent Ext. (EPA3570Draft)**

**Cleanup Method(s):**

**Client: GTI**  
**Project: NSP-Ashland**

**Analysis Method: GC/MS (EPA 8260/8270 Mod.)**

**Matrix: Soil**

**Preservation: None**

**Lab ID: IG010309-04a**  
**File ID: 30MAR05.D**

**Decanted: No**

**Date Sampled: 3/7/2001**

**Sample Size: 1.966 g**

**Date Received: 3/8/2001**

**%Solid: 79%**

**Date Prepared: 3/9/2001**

**Extract Volume: 2 mL**

**Date Cleanup: 3/9/2001**

**Prep DF: 1**

**Date Analyzed: 3/30/2001**

**Analysis DF: 1**

**Instrument: GC-2/MS**

**Injection Volume: 0.001 mL**

**Operator: ky**

**Batch QC: CW010309-SB**

Analyte:	Concentration mg/kg	Q	RL mg/kg	DL mg/kg	Comments
<b>PAH COMPOUNDS:</b>					
Benzene		U	0.13	0.06	
Toluene	0.48		0.13	0.06	
Ethylbenzene	3.16		0.13	0.06	
m/p-Xylenes	3.11		0.13	0.06	
Styrene	0.21		0.13	0.06	
o-Xylene	1.38		0.13	0.06	
1,2,4-Trimethylbenzene	4.56		0.13	0.06	
Naphthalene	56.1		0.13	0.06	
2-Methylnaphthalene	55.2		0.13	0.06	
1-Methylnaphthalene	43.1		0.13	0.06	
Acenaphthylene	3.05		0.13	0.06	
Acenaphthene	33.4		0.13	0.06	
Dibenzofuran	4.33		0.13	0.06	
Fluorene	15.8		0.13	0.06	
Phenanthrene	38.9		0.13	0.06	
Anthracene	18.1		0.13	0.06	
Fluoranthene	15.4		0.13	0.06	
Pyrene	20.4		0.13	0.06	
Benz[a]anthracene	7.82		0.13	0.06	
Chrysene	7.18		0.13	0.06	
Benzo[b]fluoranthene	2.86		0.13	0.06	
Benzo[k]fluoranthene	4.23		0.13	0.06	
Benzo[a]pyrene	8.38		0.13	0.06	
Indeno[1,2,3-cd]pyrene	2.80		0.13	0.06	
Dibenz[a,h]anthracene	0.52		0.13	0.06	
Benzo[g,h,i]perylene	2.48		0.13	0.06	
<b>ALKYLATED PAHs:</b>					
C0-Benzene		U	0.13	0.06	
C1-Benzene	0.55		0.13	0.06	
C2-Benzene	8.67		0.13	0.06	
C3-Benzene	21.8		0.13	0.06	
C4-Benzene	28.0		0.13	0.06	
C5-Benzene	3.92		0.13	0.06	
C0-Naphthalene	56.1		0.13	0.06	
C1-Naphthalene	60.0		0.13	0.06	
C2-Naphthalene	48.8		0.13	0.06	
C3-Naphthalene	17.7		0.13	0.06	
C4-Naphthalene	3.97		0.13	0.06	
C0-Fluorene	15.8		0.13	0.06	
C1-Fluorene	18.0		0.13	0.06	
C2-Fluorene	5.11		0.13	0.06	
C3-Fluorene	1.32		0.13	0.06	
C0-Phenanthrene/Anthracene	53.3		0.13	0.06	
C1-Phenanthrene/Anthracene	27.3		0.13	0.06	
C2-Phenanthrene/Anthracene	9.05		0.13	0.06	
C3-Phenanthrene/Anthracene	1.82		0.13	0.06	
C4-Phenanthrene/Anthracene	1.58		0.13	0.06	

Analytical Results for Volatile and Semivolatile Organics  
META Environmental, Inc.

<b>Field ID:</b>	<b>SD51-8</b>	<b>Preparation Method:</b>	Solvent Ext. (EPA3570Draft)
<b>Client:</b>	GTI	<b>Cleanup Method(s):</b>	
<b>Project:</b>	NSP-Ashland	<b>Analysis Method:</b>	GC/MS (EPA 8260/8270 Mod.)
<b>Lab ID:</b>	IG010309-04a	<b>Matrix:</b>	Soil
<b>File ID:</b>	30MAR05.D	<b>Preservation:</b>	None
<b>Date Sampled:</b>	3/7/2001	<b>Decanted:</b>	No
<b>Date Received:</b>	3/9/2001	<b>Sample Size:</b>	1.966 g
<b>Date Prepared:</b>	3/9/2001	<b>%Solid:</b>	79%
<b>Date Cleanup:</b>		<b>Extract Volume:</b>	2 mL
<b>Date Analyzed:</b>	3/30/2001	<b>Prep DF:</b>	1
<b>Instrument:</b>	GC-2/MS	<b>Analysis DF:</b>	1
<b>Operator:</b>	ky	<b>Injection Volume:</b>	0.001 mL
		<b>Batch QC:</b>	CW010309-SB

Analyte:	Concentration mg/kg	Q	RL mg/kg	DL mg/kg	Comments
C0-Dibenzothiophene	5.16		0.13	0.06	
C1-Dibenzothiophene	4.97		0.13	0.06	
C2-Dibenzothiophene	3.02		0.13	0.06	
C3-Dibenzothiophene	1.40		0.13	0.06	
C0-Fluoranthene/Pyrene	38.9		0.13	0.06	
C1-Fluoranthene/Pyrene	20.2		0.13	0.06	
C2-Fluoranthene/Pyrene	5.15		0.13	0.06	
C3-Fluoranthene/Pyrene	1.01		0.13	0.06	
C0-Benz(a)anthracene/Chrysene	15.1		0.13	0.06	
C1-Benz(a)anthracene/Chrysene	4.96		0.13	0.06	
C2-Benz(a)anthracene/Chrysene	1.17		0.13	0.06	
C3-Benz(a)anthracene/Chrysene	0.55		0.13	0.06	
C4-Benz(a)anthracene/Chrysene		U	0.13	0.06	
Surrogates	%R		Min	Max	
Fluorobenzene	63%		50%	150%	
2-Fluorobiphenyl	85%		50%	120%	
5 $\alpha$ -Androstane	88%		50%	120%	

## Qualifiers:

B Analyte detected in the blank  
D Analyte reported from a diluted extract  
U Undetected above the detection limit  
J Estimated value detected between the reporting and detection limits  
E Estimated value detected above calibration range  
RL Reporting limit is the sample equivalent of the lowest linear calibration concentration  
EDL Estimated detection limit is 50% of the RL

Analytical Results for Volatile and Semivolatile Organics  
 META Environmental, Inc.

Field ID: SD37-4

Client: GTI  
 Project: NSF-Ashland  
 Lab ID: IG010309-05a  
 File ID: 30MAR05.D

Date Sampled: 3/5/2001  
 Date Received: 3/9/2001  
 Date Prepared: 3/9/2001  
 Date Cleanup:   
 Date Analyzed: 3/30/2001  
 Instrument: GC-2/MS  
 Operator: kty

Preparation Method: Solvent Ext. (EPA3570Draft)  
 Cleanup Method(s):

Analysis Method: GC/MS (EPA 8260/8270 Mod.)  
 Matrix: Soil  
 Preservation: None  
 Decanted: No

Sample Size: 1.919 g  
 %Solid: 74%  
 Extract Volume: 2 mL  
 Prep DF: 1  
 Analysis DF: 1  
 Injection Volume: 0.001 mL

Batch QC: CWA010309-SB

Analyte:	Concentration mg/kg	Q	RL mg/kg	DL mg/kg	Comments
<b>PAH COMPOUNDS:</b>					
Benzene		U	0.14	0.07	
Toluene	0.15		0.14	0.07	
Ethylbenzene	3.20		0.14	0.07	
m/p-Xylenes	2.41		0.14	0.07	
Styrene		U	0.14	0.07	
o-Xylene	1.32		0.14	0.07	
1,2,4-Trimethylbenzene	4.25		0.14	0.07	
Naphthalene	62.5		0.14	0.07	
2-Methylnaphthalene	58.9		0.14	0.07	
1-Methylnaphthalene	41.6		0.14	0.07	
Acenaphthylene	2.44		0.14	0.07	
Acenaphthene	34.6		0.14	0.07	
Dibenzofuran	3.99		0.14	0.07	
Fluorene	16.1		0.14	0.07	
Phenanthrene	35.2		0.14	0.07	
Anthracene	16.7		0.14	0.07	
Fluoranthene	13.0		0.14	0.07	
Pyrene	16.9		0.14	0.07	
Benz[a]anthracene	6.87		0.14	0.07	
Chrysene	6.07		0.14	0.07	
Benzo[b]fluoranthene	3.15		0.14	0.07	
Benzo[k]fluoranthene	3.16		0.14	0.07	
Benzo[a]pyrene	5.31		0.14	0.07	
Indeno[1,2,3-cd]pyrene	2.34		0.14	0.07	
Dibenz[a,h]anthracene	0.51		0.14	0.07	
Benzo[g,h,i]perylene	1.94		0.14	0.07	
<b>ALKYLATED PAHs:</b>					
C0-Benzene		U	0.14	0.07	
C1-Benzene	0.17		0.14	0.07	
C2-Benzene	9.13		0.14	0.07	
C3-Benzene	18.7		0.14	0.07	
C4-Benzene	22.5		0.14	0.07	
C5-Benzene	3.39		0.14	0.07	
C0-Naphthalene	62.5		0.14	0.07	
C1-Naphthalene	61.4		0.14	0.07	
C2-Naphthalene	49.0		0.14	0.07	
C3-Naphthalene	12.8		0.14	0.07	
C4-Naphthalene	3.30		0.14	0.07	
C0-Fluorene	16.1		0.14	0.07	
C1-Fluorene	18.6		0.14	0.07	
C2-Fluorene	0.46		0.14	0.07	
C3-Fluorene	1.86		0.14	0.07	
C0-Phenanthrene/Anthracene	51.0		0.14	0.07	
C1-Phenanthrene/Anthracene	25.8		0.14	0.07	
C2-Phenanthrene/Anthracene	8.58		0.14	0.07	
C3-Phenanthrene/Anthracene	1.76		0.14	0.07	
C4-Phenanthrene/Anthracene	1.90		0.14	0.07	

**Analytical Results for Volatile and Semivolatile Organics  
META Environmental, Inc.**

**Field ID: SD37-4**

**Preparation Method: Solvent Ext. (EPA3570Draft)**

**Cleanup Method(s):**

**Client: GTI**  
**Project: NSP-Ashland**

**Analysis Method: GC/MS (EPA 8260/8270 Mod.)**

**Lab ID: IG010309-05a**  
**File ID: 30MAR08.D**

**Matrix: Soil**  
**Preservation: None**  
**Decanted: No**

**Date Sampled: 3/5/2001**  
**Date Received: 3/9/2001**  
**Date Prepared: 3/9/2001**  
**Date Cleanup:**  
**Date Analyzed: 3/30/2001**  
**Instrument: GC-2/MS**  
**Operator: kty**

**Sample Size: 1.918 g**  
**%Solid: 74%**  
**Extract Volume: 2 mL**  
**Prep DF: 1**  
**Analysis DF: 1**  
**Injection Volume: 0.001 mL**

**Batch QC: CW010309-SB**

Analyte:	Concentration mg/kg	Q	RL mg/kg	DL mg/kg	Comments
C0-Dibenzothiophene	5.86		0.14	0.07	
C1-Dibenzothiophene	6.02		0.14	0.07	
C2-Dibenzothiophene	3.62		0.14	0.07	
C3-Dibenzothiophene	1.38		0.14	0.07	
C0-Fluoranthene/Pyrene	30.8		0.14	0.07	
C1-Fluoranthene/Pyrene	18.8		0.14	0.07	
C2-Fluoranthene/Pyrene	4.93		0.14	0.07	
C3-Fluoranthene/Pyrene	0.90		0.14	0.07	
C0-Benz(a)anthracene/Chrysene	13.0		0.14	0.07	
C1-Benz(a)anthracene/Chrysene	4.49		0.14	0.07	
C2-Benz(a)anthracene/Chrysene	1.39		0.14	0.07	
C3-Benz(a)anthracene/Chrysene	0.51		0.14	0.07	
C4-Benz(a)anthracene/Chrysene		U	0.14	0.07	
Surrogates	%R		Min	Max	
Fluorobenzene	58%		50%	150%	
2-Fluorobiphenyl	75%		50%	120%	
5a-Androstane	79%		50%	120%	

**Qualifiers:**

- B Analyte detected in the blank
- D Analyte reported from a diluted extract
- U Undetected above the detection limit
- J Estimated value detected between the reporting and detection limits
- E Estimated value detected above calibration range
- RL Reporting limit is the sample equivalent of the lowest linear calibration concentration
- EDL Estimated detection limit is 50% of the RL

**Analytical Results for Volatile and Semivolatile Organics**  
**META Environmental, Inc.**

**Field ID: SD15-6**

**Client: GTI**  
**Project: NSP-Ashland**

**Lab ID: IG010309-06a**  
**File ID: 30MAR07.D**

**Date Sampled: 3/7/2001**  
**Date Received: 3/9/2001**  
**Date Prepared: 3/9/2001**  
**Date Cleanup: 3/30/2001**  
**Date Analyzed: 3/30/2001**  
**Instrument: GC-2/MS**  
**Operator: kty**

**Preparation Method: Solvent Ext. (EPA3570Draft)**

**Cleanup Method(s):**

**Analysis Method: GC/MS (EPA 8260/8270 Mod.)**

**Matrix: Soil**

**Preservation: None**

**Decanted: No**

**Sample Size: 1.914 g**

**%Solid: 81%**

**Extract Volume: 2 mL**

**Prep DF: 1**

**Analysis DF: 1**

**Injection Volume: 0.001 mL**

**Batch QC: CW010309-SB**

Analyte:	Concentration mg/kg	Q	RL mg/kg	DL mg/kg	Comments
<b>PAH COMPOUNDS:</b>					
Benzene		U	0.13	0.06	
Toluene		U	0.13	0.06	
Ethylbenzene	1.54		0.13	0.06	
m/p-Xylenes	1.16		0.13	0.06	
Styrene		U	0.13	0.06	
o-Xylene	0.66		0.13	0.06	
1,2,4-Trimethylbenzene	1.73		0.13	0.06	
Naphthalene	30.7		0.13	0.06	
2-Methylnaphthalene	27.5		0.13	0.06	
1-Methylnaphthalene	18.7		0.13	0.06	
Acenaphthylene	1.23		0.13	0.06	
Acenaphthene	15.0		0.13	0.06	
Dibenzofuran	1.57		0.13	0.06	
Fluorene	6.43		0.13	0.06	
Phenanthrene	16.8		0.13	0.06	
Anthracene	7.32		0.13	0.06	
Fluoranthene	8.05		0.13	0.06	
Pyrene	7.89		0.13	0.06	
Benz[a]anthracene	3.08		0.13	0.06	
Chrysene	2.77		0.13	0.06	
Benzo[b]fluoranthene	1.35		0.13	0.06	
Benzo[k]fluoranthene	1.51		0.13	0.06	
Benzo[a]pyrene	2.43		0.13	0.06	
Indeno[1,2,3-cd]pyrene	1.00		0.13	0.06	
Dibenz[a,h]anthracene	0.21		0.13	0.06	
Benzo[g,h,i]perylene	0.88		0.13	0.06	
<b>ALKYLATED PAHs:</b>					
C0-Benzene		U	0.13	0.06	
C1-Benzene		U	0.13	0.06	
C2-Benzene	4.54		0.13	0.06	
C3-Benzene	1.97		0.13	0.06	
C4-Benzene	9.08		0.13	0.06	
C5-Benzene	1.46		0.13	0.06	
C0-Naphthalene	30.7		0.13	0.06	
C1-Naphthalene	28.3		0.13	0.06	
C2-Naphthalene	21.0		0.13	0.06	
C3-Naphthalene	5.51		0.13	0.06	
C4-Naphthalene	1.50		0.13	0.06	
C0-Fluorene	6.43		0.13	0.06	
C1-Fluorene	7.43		0.13	0.06	
C2-Fluorene	2.07		0.13	0.06	
C3-Fluorene	0.63		0.13	0.06	
C0-Phenanthrene/Anthracene	23.3		0.13	0.06	
C1-Phenanthrene/Anthracene	11.9		0.13	0.06	
C2-Phenanthrene/Anthracene	3.73		0.13	0.06	
C3-Phenanthrene/Anthracene	0.98		0.13	0.06	
C4-Phenanthrene/Anthracene	0.65		0.13	0.06	

**Analytical Results for Volatile and Semivolatile Organics**  
**META Environmental, Inc.**

<b>Field ID:</b>	<b>SD15-6</b>	<b>Preparation Method:</b>	Solvent Ext. (EPA3570Draft)
<b>Client:</b>	GTI	<b>Cleanup Method(s):</b>	
<b>Project:</b>	NSP-Ashland	<b>Analysis Method:</b>	GC/MS (EPA 8260/8270 Mod.)
<b>Lab ID:</b>	IG010309-06a	<b>Matrix:</b>	Soil
<b>File ID:</b>	30MAR07.D	<b>Preservation:</b>	None
<b>Date Sampled:</b>	3/7/2001	<b>Decanted:</b>	No
<b>Date Received:</b>	3/9/2001	<b>Sample Size:</b>	1.914 g
<b>Date Prepared:</b>	3/9/2001	<b>%Solid:</b>	81%
<b>Date Cleanup:</b>		<b>Extract Volume:</b>	2 mL
<b>Date Analyzed:</b>	3/30/2001	<b>Prep DF:</b>	1
<b>Instrument:</b>	GC-2/MS	<b>Analysis DF:</b>	1
<b>Operator:</b>	ky	<b>Injection Volume:</b>	0.001 mL
		<b>Batch QC:</b>	CW010309-SB

Analyte:	Concentration mg/kg	Q	RL mg/kg	DL mg/kg	Comments
C0-Dibenzothiophene	2.36		0.13	0.06	
C1-Dibenzothiophene	2.49		0.13	0.06	
C2-Dibenzothiophene	1.53		0.13	0.06	
C3-Dibenzothiophene	0.59		0.13	0.06	
C0-Fluoranthene/Pyrene	14.4		0.13	0.06	
C1-Fluoranthene/Pyrene	8.30		0.13	0.06	
C2-Fluoranthene/Pyrene	2.16		0.13	0.06	
C3-Fluoranthene/Pyrene	0.41		0.13	0.06	
C0-Benz(a)anthracene/Chrysene	5.87		0.13	0.06	
C1-Benz(a)anthracene/Chrysene	2.15		0.13	0.06	
C2-Benz(a)anthracene/Chrysene	0.58		0.13	0.06	
C3-Benz(a)anthracene/Chrysene	0.16		0.13	0.06	
C4-Benz(a)anthracene/Chrysene		U	0.13	0.06	
<b>Surrogates</b>					
	%R		Min	Max	
Fluorobenzene	42%		50%	150%	
2-Fluorobiphenyl	61%		50%	120%	
5a-Androstane	68%		50%	120%	

**Qualifiers:**

B Analyte detected in the blank  
D Analyte reported from a diluted extract  
U Undetected above the detection limit  
J Estimated value detected between the reporting and detection limits  
E Estimated value detected above calibration range  
RL Reporting limit is the sample equivalent of the lowest linear calibration concentration  
EDL Estimated detection limit is 50% of the RL

**Analytical Results for Volatile and Semivolatile Organics**  
**META Environmental, Inc.**

**Field ID: SD47-4**

**Preparation Method: Solvent Ext. (EPA3570Draft)**

**Cleanup Method(s):**

**Client: GTI**  
**Project: NSP-Ashland**

**Analysis Method: GC/MS (EPA 8260/8270 Mod.)**

**Lab ID: IG010309-07a**  
**File ID: 31MAR11.D**

**Matrix: Soil**  
**Preservation: None**  
**Decanted: No**

**Date Sampled: 3/5/01**  
**Date Received: 3/9/01**  
**Date Prepared: 3/9/01**  
**Date Cleanup:**  
**Date Analyzed: 3/31/01**  
**Instrument: GC-2/MS**  
**Operator: kty**

**Sample Size: 1.905 g**  
**%Solid: 80%**  
**Extract Volume: 2 mL**  
**Prep DF: 1**  
**Analysis DF: 1**  
**Injection Volume: 0.001 mL**

**Batch QC: CW010309-SB**

Analyte:	Concentration mg/kg	Q	RL mg/kg	DL mg/kg	Comments
<b>PAH COMPOUNDS:</b>					
Benzene	4.99		0.13	0.07	
Toluene	30.3		0.13	0.07	
Ethylbenzene	64.6		0.13	0.07	
m/p-Xylenes	52.4		0.13	0.07	
Styrene	2.41		0.13	0.07	
o-Xylene	28.5		0.13	0.07	
1,2,4-Trimethylbenzene	49.2		0.13	0.07	
Naphthalene	1,280	D	0.13	0.07	
2-Methylnaphthalene	1,070	D	0.13	0.07	
1-Methylnaphthalene	783	D	0.13	0.07	
Acenaphthylene	29.2		0.13	0.07	
Acenaphthene	517	D	0.13	0.07	
Dibenzofuran	33.5		0.13	0.07	
Fluorene	89.7		0.13	0.07	
Phenanthrene	556	D	0.13	0.07	
Anthracene	250	D	0.13	0.07	
Fluoranthene	65.5		0.13	0.07	
Pyrene	77.3		0.13	0.07	
Benz[a]anthracene	33.3		0.13	0.07	
Chrysene	29.8		0.13	0.07	
Benzo[b]fluoranthene	15.2		0.13	0.07	
Benzo[k]fluoranthene	13.7		0.13	0.07	
Benzo[a]pyrene	25.8		0.13	0.07	
Indeno[1,2,3-cd]pyrene	15.0		0.13	0.07	
Dibenz[a,h]anthracene	3.44		0.13	0.07	
Benzo[g,h,i]perylene	11.8		0.13	0.07	
<b>ALKYLATED PAHs:</b>					
C0-Benzene	4.99		0.13	0.07	
C1-Benzene	34.6		0.13	0.07	
C2-Benzene	175		0.13	0.07	
C3-Benzene	222		0.13	0.07	
C4-Benzene	198		0.13	0.07	
C5-Benzene	30.5		0.13	0.07	
C0-Naphthalene	1,280	D	0.13	0.07	
C1-Naphthalene	1,120	D	0.13	0.07	
C2-Naphthalene	316		0.13	0.07	
C3-Naphthalene	99.3		0.13	0.07	
C4-Naphthalene	29.5		0.13	0.07	
C0-Fluorene	89.7		0.13	0.07	
C1-Fluorene	149		0.13	0.07	
C2-Fluorene	40.2		0.13	0.07	
C3-Fluorene	11.0		0.13	0.07	
C0-Phenanthrene/Anthracene	778	D	0.13	0.07	
C1-Phenanthrene/Anthracene	157		0.13	0.07	
C2-Phenanthrene/Anthracene	57.8		0.13	0.07	
C3-Phenanthrene/Anthracene	11.3		0.13	0.07	
C4-Phenanthrene/Anthracene	9.17		0.13	0.07	

**Analytical Results for Volatile and Semivolatile Organics**  
**META Environmental, Inc.**

**Field ID: SD47-4**

Preparation Method: Solvent Ext. (EPA3570Draft)

Cleanup Method(s):

Client: GTI  
 Project: NSP-Ashtand

Analysis Method: GC/MS (EPA 8260/8270 Mod.)

Matrix: Soil

Preservation: None

Lab ID: IG010309-07a  
 File ID: 31MAR11.D

Decanted: No

Date Sampled: 3/5/01

Sample Size: 1.905 g

Date Received: 3/9/01

%Solid: 80%

Date Prepared: 3/9/01

Extract Volume: 2 mL

Date Cleanup: 3/9/01

Prep DF: 1

Date Analyzed: 3/31/01

Analysis DF: 1

Instrument: GC-2/MS

Injection Volume: 0.001 mL

Operator: kty

Batch QC: CW010309-SB

Analyte:	Concentration mg/kg	Q	RL mg/kg	DL mg/kg	Comments
C0-Dibenzothiophene	31.0		0.13	0.07	
C1-Dibenzothiophene	34.6		0.13	0.07	
C2-Dibenzothiophene	23.4		0.13	0.07	
C3-Dibenzothiophene	9.39		0.13	0.07	
C0-Fluoranthene/Pyrene	467	D	0.13	0.07	
C1-Fluoranthene/Pyrene	111		0.13	0.07	
C2-Fluoranthene/Pyrene	31.4		0.13	0.07	
C3-Fluoranthene/Pyrene	7.23		0.13	0.07	
C0-Benz(a)anthracene/Chrysene	63.1		0.13	0.07	
C1-Benz(a)anthracene/Chrysene	26.0		0.13	0.07	
C2-Benz(a)anthracene/Chrysene	7.81		0.13	0.07	
C3-Benz(a)anthracene/Chrysene	3.41		0.13	0.07	
C4-Benz(a)anthracene/Chrysene	0.86		0.13	0.07	
Surrogates	%R		Min	Max	
Fluorobenzene	50%		50%	150%	
2-Fluorobiphenyl	76%		50%	120%	
5a-Androstane	71%		50%	120%	

**Qualifiers:**

- B Analyte detected in the blank
- D Analyte reported from a diluted extract
- U Undetected above the detection limit
- J Estimated value detected between the reporting and detection limits
- E Estimated value detected above calibration range
- RL Reporting limit is the sample equivalent of the lowest linear calibration concentration
- EDL Estimated detection limit is 50% of the RL



**Analytical Results for Volatile and Semivolatile Organics**  
**META Environmental, Inc.**

**Field ID: SD56-4**

**Preparation Method: Solvent Ext. (EPA3570Draft)**

**Cleanup Method(s):**

**Client: GTI**  
**Project: NSP-Ashland**

**Analysis Method: GC/MS (EPA 8260/8270 Mod.)**

**Matrix: Soil**

**Preservation: None**

**Lab ID: IG010309-08a**  
**File ID: 31MAR12.D**

**Decanted: No**

**Date Sampled: 3/5/2001**

**Sample Size: 1.909 g**

**Date Received: 3/9/2001**

**%Solid: 61%**

**Date Prepared: 3/9/2001**

**Extract Volume: 2 mL**

**Date Cleanup:**

**Prep DF: 1**

**Date Analyzed: 3/31/2001**

**Analysis DF: 1**

**Instrument: GC-2/MS**

**Injection Volume: 0.001 mL**

**Operator: kty**

**Batch QC: CW010309-SB**

Analyte:	Concentration mg/kg	Q	RL mg/kg	DL mg/kg	Comments
<b>PAH COMPOUNDS:</b>					
Benzene	8.95		0.17	0.09	
Toluene	23.4		0.17	0.09	
Ethylbenzene	50.2		0.17	0.09	
m/p-Xylenes	37.6		0.17	0.09	
Styrene	1.78		0.17	0.09	
o-Xylene	19.9		0.17	0.09	
1,2,4-Trimethylbenzene	33.1		0.17	0.09	
Naphthalene	974	D	0.17	0.09	
2-Methylnaphthalene	788	D	0.17	0.09	
1-Methylnaphthalene	172		0.17	0.09	
Acenaphthylene	17.4		0.17	0.09	
Acenaphthene	127		0.17	0.09	
Dibenzofuran	24.6		0.17	0.09	
Fluorene	63.1		0.17	0.09	
Phenanthrene	406	D	0.17	0.09	
Anthracene	63.7		0.17	0.09	
Fluoranthene	50.4		0.17	0.09	
Pyrene	62.7		0.17	0.09	
Benz[a]anthracene	28.8		0.17	0.09	
Chrysene	22.9		0.17	0.09	
Benzo[b]fluoranthene	10.6		0.17	0.09	
Benzo[k]fluoranthene	11.5		0.17	0.09	
Benzo[a]pyrene	19.0		0.17	0.09	
Indeno[1,2,3-cd]pyrene	9.92		0.17	0.09	
Dibenz[a,h]anthracene	2.24		0.17	0.09	
Benzo[g,h,i]perylene	7.27		0.17	0.09	

**ALKYLATED PAHs:**

C0-Benzene	8.95		0.17	0.09	
C1-Benzene	26.7		0.17	0.09	
C2-Benzene	131		0.17	0.09	
C3-Benzene	149		0.17	0.09	
C4-Benzene	135		0.17	0.09	
C5-Benzene	20.5		0.17	0.09	
C0-Naphthalene	974	D	0.17	0.09	
C1-Naphthalene	816	D	0.17	0.09	
C2-Naphthalene	570	D	0.17	0.09	
C3-Naphthalene	68.9		0.17	0.09	
C4-Naphthalene	20.0		0.17	0.09	
C0-Fluorene	63.1		0.17	0.09	
C1-Fluorene	89.2		0.17	0.09	
C2-Fluorene	26.3		0.17	0.09	
C3-Fluorene	7.44		0.17	0.09	
C0-Phenanthrene/Anthracene	553	D	0.17	0.09	
C1-Phenanthrene/Anthracene	117		0.17	0.09	
C2-Phenanthrene/Anthracene	41.1		0.17	0.09	
C3-Phenanthrene/Anthracene	8.06		0.17	0.09	
C4-Phenanthrene/Anthracene	7.20		0.17	0.09	

**Analytical Results for Volatile and Semivolatile Organics  
META Environmental, Inc.**

<b>Field ID:</b>	<b>SD56-4</b>	<b>Preparation Method:</b>	Solvent Ext. (EPA3570Draft)
<b>Client:</b>	GTI	<b>Cleanup Method(s):</b>	
<b>Project:</b>	NSP-Ashland	<b>Analysis Method:</b>	GC/MS (EPA 8260/8270 Mod.)
<b>Lab ID:</b>	IG010309-08a	<b>Matrix:</b>	Soil
<b>File ID:</b>	31MAR12.D	<b>Preservation:</b>	None
<b>Date Sampled:</b>	3/5/2001	<b>Decanted:</b>	No
<b>Date Received:</b>	3/9/2001	<b>Sample Size:</b>	1.909 g
<b>Date Prepared:</b>	3/9/2001	<b>%Solid:</b>	61%
<b>Date Cleanup:</b>		<b>Extract Volume:</b>	2 mL
<b>Date Analyzed:</b>	3/31/2001	<b>Prep DF:</b>	1
<b>Instrument:</b>	GC-2/MS	<b>Analysis DF:</b>	1
<b>Operator:</b>	kty	<b>Injection Volume:</b>	0.001 mL
		<b>Batch QC:</b>	CW010309-SB

Analyte:	Concentration mg/kg	Q	RL mg/kg	DL mg/kg	Comments
C0-Dibenzothiophene	23.3		0.17	0.09	
C1-Dibenzothiophene	25.3		0.17	0.09	
C2-Dibenzothiophene	16.1		0.17	0.09	
C3-Dibenzothiophene	8.44		0.17	0.09	
C0-Fluoranthene/Pyrene	117		0.17	0.09	
C1-Fluoranthene/Pyrene	81.3		0.17	0.09	
C2-Fluoranthene/Pyrene	23.8		0.17	0.09	
C3-Fluoranthene/Pyrene	4.78		0.17	0.09	
C0-Benz(a)anthracene/Chrysene	49.7		0.17	0.09	
C1-Benz(a)anthracene/Chrysene	19.4		0.17	0.09	
C2-Benz(a)anthracene/Chrysene	5.31		0.17	0.09	
C3-Benz(a)anthracene/Chrysene	2.68		0.17	0.09	
C4-Benz(a)anthracene/Chrysene	0.54		0.17	0.09	
Surrogates	%R		Min	Max	
Fluorobenzene	38%		50%	150%	
2-Fluorobiphenyl	65%		50%	120%	
5a-Androstane	67%		50%	120%	

**Qualifiers:**

B Analyte detected in the blank  
D Analyte reported from a diluted extract  
U Undetected above the detection limit  
J Estimated value detected between the reporting and detection limits  
E Estimated value detected above calibration range  
RL Reporting limit is the sample equivalent of the lowest linear calibration concentration  
EDL Estimated detection limit is 50% of the RL

**Analytical Results for Volatile and Semivolatile Organics**  
**META Environmental, Inc.**

**Field ID: SD34-2**

**Preparation Method: Solvent Ext. (EPA3570Draft)**

**Cleanup Method(s):**

**Client: GTI**  
**Project: NSP-Ashland**

**Analysis Method: GC/MS (EPA 8260/8270 Mod.)**

**Matrix: Soil**

**Lab ID: IG010309-09a**  
**File ID: 31MAR09.D**

**Preservation: None**

**Decanted: No**

**Date Sampled: 3/5/2001**

**Sample Size: 1.982 g**

**Date Received: 3/9/2001**

**%Solid: 85%**

**Date Prepared: 3/9/2001**

**Extract Volume: 2 mL**

**Date Cleanup:**

**Prep DF: 1**

**Date Analyzed: 3/31/2001**

**Analysis DF: 1**

**Instrument: GC-2/MS**

**Injection Volume: 0.001 mL**

**Operator: kty**

**Batch QC: CWD10309-SB**

Analyte:	Concentration mg/kg	Q	RL mg/kg	DL mg/kg	Comments
<b>PAH COMPOUNDS:</b>					
Benzene		U	0.12	0.06	
Toluene	0.18		0.12	0.06	
Ethylbenzene	5.34		0.12	0.06	
m/p-Xylenes	3.22		0.12	0.06	
Styrene	0.22		0.12	0.06	
o-Xylene	2.14		0.12	0.06	
1,2,4-Trimethylbenzene	5.83		0.12	0.06	
Naphthalene	210	D	0.12	0.06	
2-Methylnaphthalene	86.3		0.12	0.06	
1-Methylnaphthalene	58.1		0.12	0.06	
Acenaphthylene	3.89		0.12	0.06	
Acenaphthene	61.2		0.12	0.06	
Dibenzofuran	3.18		0.12	0.06	
Fluorene	24.9		0.12	0.06	
Phenanthrene	65.3		0.12	0.06	
Anthracene	24.9		0.12	0.06	
Fluoranthene	29.0		0.12	0.06	
Pyrene	41.0		0.12	0.06	
Benz[a]anthracene	14.1		0.12	0.06	
Chrysene	12.8		0.12	0.06	
Benzo[b]fluoranthene	5.49		0.12	0.06	
Benzo[k]fluoranthene	7.74		0.12	0.06	
Benzo[a]pyrene	13.1		0.12	0.06	
Indeno[1,2,3-cd]pyrene	8.07		0.12	0.06	
Dibenz[a,h]anthracene	1.00		0.12	0.06	
Benzo[g,h,i]perylene	5.56		0.12	0.06	
<b>ALKYLATED PAHs:</b>					
C0-Benzene		U	0.12	0.06	
C1-Benzene	0.21		0.12	0.06	
C2-Benzene	13.6		0.12	0.06	
C3-Benzene	25.8		0.12	0.06	
C4-Benzene	34.3		0.12	0.06	
C5-Benzene	4.95		0.12	0.06	
C0-Naphthalene	210	D	0.12	0.06	
C1-Naphthalene	88.2		0.12	0.06	
C2-Naphthalene	64.3		0.12	0.06	
C3-Naphthalene	14.5		0.12	0.06	
C4-Naphthalene	3.53		0.12	0.06	
C0-Fluorene	24.9		0.12	0.06	
C1-Fluorene	21.0		0.12	0.06	
C2-Fluorene	5.68		0.12	0.06	
C3-Fluorene	1.77		0.12	0.06	
C0-Phenanthrene/Anthracene	87.5		0.12	0.06	
C1-Phenanthrene/Anthracene	37.6		0.12	0.06	
C2-Phenanthrene/Anthracene	10.4		0.12	0.06	
C3-Phenanthrene/Anthracene	1.87		0.12	0.06	
C4-Phenanthrene/Anthracene	2.46		0.12	0.06	

**Analytical Results for Volatile and Semivolatile Organics**  
**META Environmental, Inc.**

<b>Field ID:</b>	<b>SD34-2</b>	<b>Preparation Method:</b>	Solvent Ext. (EPA3570Draft)
<b>Client:</b>	GTI	<b>Cleanup Method(s):</b>	
<b>Project:</b>	NSP-Ashland	<b>Analysis Method:</b>	GC/MS (EPA 8260/8270 Mod.)
<b>Lab ID:</b>	IG010309-09a	<b>Matrix:</b>	Soil
<b>File ID:</b>	31MAR09.D	<b>Preservation:</b>	None
<b>Date Sampled:</b>	3/5/2001	<b>Decanted:</b>	No
<b>Date Received:</b>	3/9/2001	<b>Sample Size:</b>	1.982 g
<b>Date Prepared:</b>	3/9/2001	<b>%Solid:</b>	85%
<b>Date Cleanup:</b>		<b>Extract Volume:</b>	2 mL
<b>Date Analyzed:</b>	3/31/2001	<b>Prep DF:</b>	1
<b>Instrument:</b>	GC-2MS	<b>Analysis DF:</b>	1
<b>Operator:</b>	ky	<b>Injection Volume:</b>	0.001 mL
		<b>Batch QC:</b>	CW010309-SB

Analyte:	Concentration mg/kg	Q	RL mg/kg	DL mg/kg	Comments
C0-Dibenzothiophene	6.23		0.12	0.06	
C1-Dibenzothiophene	4.55		0.12	0.06	
C2-Dibenzothiophene	2.76		0.12	0.06	
C3-Dibenzothiophene	1.19		0.12	0.06	
C0-Fluoranthene/Pyrene	72.2		0.12	0.06	
C1-Fluoranthene/Pyrene	30.2		0.12	0.06	
C2-Fluoranthene/Pyrene	6.45		0.12	0.06	
C3-Fluoranthene/Pyrene	1.05		0.12	0.06	
C0-Benz(a)anthracene/Chrysene	27.0		0.12	0.06	
C1-Benz(a)anthracene/Chrysene	6.52		0.12	0.06	
C2-Benz(a)anthracene/Chrysene	0.12		0.12	0.06	
C3-Benz(a)anthracene/Chrysene	0.36		0.12	0.06	
C4-Benz(a)anthracene/Chrysene		U	0.12	0.06	
<b>Surrogates</b>	<b>%R</b>		<b>Min</b>	<b>Max</b>	
Fluorobenzene	55%		50%	150%	
2-Fluorobiphenyl	79%		50%	120%	
5a-Androstane	80%		50%	120%	

**Qualifiers:**

B Analyte detected in the blank  
D Analyte reported from a diluted extract  
U Undetected above the detection limit  
J Estimated value detected between the reporting and detection limits  
E Estimated value detected above calibration range  
RL Reporting limit is the sample equivalent of the lowest linear calibration concentration  
EDL Estimated detection limit is 50% of the RL

**Analytical Results for Volatile and Semivolatile Organics**  
**META Environmental, Inc.**

**Field ID: SD48-8**

**Preparation Method: Solvent Ext. (EPA3570Draft)**

**Cleanup Method(s):**

**Client: GTI**  
**Project: NSP-Ashland**

**Analysis Method: GC/MS (EPA 8260/8270 Mod.)**

**Matrix: Soil**  
**Preservation: None**  
**Decanted: No**

**Lab ID: IG010309-10a**  
**File ID: 30MAR08.D**

**Sample Size: 2.088 g**  
**%Solid: 85%**  
**Extract Volume: 2 mL**  
**Prep DF: 1**  
**Analysis DF: 1**  
**Injection Volume: 0.001 mL**

**Date Sampled: 3/7/2001**  
**Date Received: 3/9/2001**  
**Date Prepared: 3/9/2001**  
**Date Cleanup:**  
**Date Analyzed: 3/30/2001**  
**Instrument: GC-2/MS**  
**Operator: kty**

**Batch QC: CWD10309-SB**

Analyte:	Concentration mg/kg	Q	RL mg/kg	DL mg/kg	Comments
<b>PAH COMPOUNDS:</b>					
Benzene		U	0.11	0.06	
Toluene	0.30		0.11	0.06	
Ethylbenzene	3.07		0.11	0.06	
m/p-Xylenes	2.71		0.11	0.06	
Styrene	0.22		0.11	0.06	
o-Xylene	1.70		0.11	0.06	
1,2,4-Trimethylbenzene	4.68		0.11	0.06	
Naphthalene	54.0		0.11	0.06	
2-Methylnaphthalene	53.3		0.11	0.06	
1-Methylnaphthalene	40.1		0.11	0.06	
Acenaphthylene	3.31		0.11	0.06	
Acenaphthene	27.3		0.11	0.06	
Dibenzofuran	4.44		0.11	0.06	
Fluorene	13.3		0.11	0.06	
Phenanthrene	32.0		0.11	0.06	
Anthracene	13.8		0.11	0.06	
Fluoranthene	12.3		0.11	0.06	
Pyrene	16.3		0.11	0.06	
Benz[a]anthracene	6.68		0.11	0.06	
Chrysene	5.90		0.11	0.06	
Benzo[b]fluoranthene	2.95		0.11	0.06	
Benzo[k]fluoranthene	3.29		0.11	0.06	
Benzo[a]pyrene	5.61		0.11	0.06	
Indeno[1,2,3-cd]pyrene	2.56		0.11	0.06	
Dibenz[a,h]anthracene	0.53		0.11	0.06	
Benzo[g,h,i]perylene	2.12		0.11	0.06	
<b>ALKYLATED PAHs:</b>					
C0-Benzene		U	0.11	0.06	
C1-Benzene	0.34		0.11	0.06	
C2-Benzene	9.43		0.11	0.06	
C3-Benzene	21.0		0.11	0.06	
C4-Benzene	23.7		0.11	0.06	
C5-Benzene	3.43		0.11	0.06	
C0-Naphthalene	54.0		0.11	0.06	
C1-Naphthalene	57.0		0.11	0.06	
C2-Naphthalene	45.7		0.11	0.06	
C3-Naphthalene	12.1		0.11	0.06	
C4-Naphthalene	3.38		0.11	0.06	
C0-Fluorene	13.3		0.11	0.06	
C1-Fluorene	16.8		0.11	0.06	
C2-Fluorene	4.93		0.11	0.06	
C3-Fluorene	1.64		0.11	0.06	
C0-Phenanthrene/Anthracene	44.3		0.11	0.06	
C1-Phenanthrene/Anthracene	23.1		0.11	0.06	
C2-Phenanthrene/Anthracene	7.18		0.11	0.06	
C3-Phenanthrene/Anthracene	1.92		0.11	0.06	
C4-Phenanthrene/Anthracene	1.37		0.11	0.06	

**Analytical Results for Volatile and Semivolatile Organics**  
**META Environmental, Inc.**

<b>Field ID:</b>	<b>SD48-8</b>	<b>Preparation Method:</b>	Solvent Ext. (EPA3570Draft)
<b>Client:</b>	GTI	<b>Cleanup Method(s):</b>	
<b>Project:</b>	NSP-Ashland	<b>Analysis Method:</b>	GC/MS (EPA 8260/8270 Mod.)
<b>Lab ID:</b>	IG010309-10a	<b>Matrix:</b>	Soil
<b>File ID:</b>	30MAR08.D	<b>Preservation:</b>	None
<b>Date Sampled:</b>	3/7/2001	<b>Decanted:</b>	No
<b>Date Received:</b>	3/8/2001	<b>Sample Size:</b>	2.088 g
<b>Date Prepared:</b>	3/9/2001	<b>%Solid:</b>	85%
<b>Date Cleanup:</b>		<b>Extract Volume:</b>	2 mL
<b>Date Analyzed:</b>	3/30/2001	<b>Prep DF:</b>	1
<b>Instrument:</b>	GC-2/MS	<b>Analysis DF:</b>	1
<b>Operator:</b>	ky	<b>Injection Volume:</b>	0.001 mL
		<b>Batch QC:</b>	CW010309-SB

Analyte:	Concentration mg/kg	Q	RL mg/kg	DL mg/kg	Comments
C0-Dibenzothiophene	4.66		0.11	0.06	
C1-Dibenzothiophene	4.48		0.11	0.06	
C2-Dibenzothiophene	2.53		0.11	0.06	
C3-Dibenzothiophene	1.02		0.11	0.06	
C0-Fluoranthene/Pyrene	29.5		0.11	0.06	
C1-Fluoranthene/Pyrene	17.0		0.11	0.06	
C2-Fluoranthene/Pyrene	4.69		0.11	0.06	
C3-Fluoranthene/Pyrene	0.35		0.11	0.06	
C0-Benz(a)anthracene/Chrysene	12.6		0.11	0.06	
C1-Benz(a)anthracene/Chrysene	4.50		0.11	0.06	
C2-Benz(a)anthracene/Chrysene	1.34		0.11	0.06	
C3-Benz(a)anthracene/Chrysene	0.51		0.11	0.06	
C4-Benz(a)anthracene/Chrysene		U	0.11	0.06	
<b>Surrogates</b>					
	%R		Min	Max	
Fluorobenzene	55%		50%	150%	
2-Fluorobiphenyl	74%		50%	120%	
5 $\alpha$ -Androstane	78%		50%	120%	

**Qualifiers:**

B Analyte detected in the blank  
D Analyte reported from a diluted extract  
U Undetected above the detection limit  
J Estimated value detected between the reporting and detection limits  
E Estimated value detected above calibration range  
RL Reporting limit is the sample equivalent of the lowest linear calibration concentration  
EDL Estimated detection limit is 50% of the RL

Analytical Results for Volatile and Semivolatile Organics  
 META Environmental, Inc.

**Field ID:**      **Soil Blank**

**Preparation Method:**      Solvent Ext. (EPA3570Draft)

**Cleanup Method(s):**

**Client:**            GTI  
**Project:**          NSP-Ashland

**Analysis Method:**      GC/MS (EPA 8260/8270 Mod.)

**Matrix:**            Soil

**Preservation:**        None

**Lab ID:**            CW010309-SB  
**File ID:**          30MAR03.D

**Decanted:**          No

**Date Sampled:**  
**Date Received:**  
**Date Prepared:**      3/9/2001  
**Date Cleanup:**  
**Date Analyzed:**      3/30/2001  
**Instrument:**        GC-2/MS  
**Operator:**          kty

**Sample Size:**            2            g  
**%Solid:**                100%  
**Extract Volume:**        2            mL  
**Prep DF:**                1  
**Analysis DF:**            1  
**Injection Volume:**      0.001      mL

**Batch QC:**              CW010309-SB

Analyte:	Concentration mg/kg	Q	RL mg/kg	DL mg/kg	Comments
<b>PAH COMPOUNDS:</b>					
Benzene		U	0.10	0.05	
Toluene		U	0.10	0.05	
Ethylbenzene		U	0.10	0.05	
m/p-Xylenes		U	0.10	0.05	
Styrene		U	0.10	0.05	
o-Xylene		U	0.10	0.05	
1,2,4-Trimethylbenzene		U	0.10	0.05	
Naphthalene		U	0.10	0.05	
2-Methylnaphthalene		U	0.10	0.05	
1-Methylnaphthalene		U	0.10	0.05	
Acenaphthylene		U	0.10	0.05	
Acenaphthene		U	0.10	0.05	
Dibenzofuran		U	0.10	0.05	
Fluorene		U	0.10	0.05	
Phenanthrene		U	0.10	0.05	
Anthracene		U	0.10	0.05	
Fluoranthene		U	0.10	0.05	
Pyrene		U	0.10	0.05	
Benz[a]anthracene		U	0.10	0.05	
Chrysene		U	0.10	0.05	
Benzo[b]fluoranthene		U	0.10	0.05	
Benzo[k]fluoranthene		U	0.10	0.05	
Benzo[a]pyrene		U	0.10	0.05	
Indeno[1,2,3-cd]pyrene		U	0.10	0.05	
Dibenz[a,h]anthracene		U	0.10	0.05	
Benzo[g,h,i]perylene		U	0.10	0.05	
<b>ALKYLATED PAHs:</b>					
C0-Benzene		U	0.10	0.05	
C1-Benzene		U	0.10	0.05	
C2-Benzene		U	0.10	0.05	
C3-Benzene		U	0.10	0.05	
C4-Benzene		U	0.10	0.05	
C5-Benzene		U	0.10	0.05	
C0-Naphthalene		U	0.10	0.05	
C1-Naphthalene		U	0.10	0.05	
C2-Naphthalene		U	0.10	0.05	
C3-Naphthalene		U	0.10	0.05	
C4-Naphthalene		U	0.10	0.05	
C0-Fluorene		U	0.10	0.05	
C1-Fluorene		U	0.10	0.05	
C2-Fluorene		U	0.10	0.05	
C3-Fluorene		U	0.10	0.05	
C0-Phenanthrene/Anthracene		U	0.10	0.05	
C1-Phenanthrene/Anthracene		U	0.10	0.05	
C2-Phenanthrene/Anthracene		U	0.10	0.05	
C3-Phenanthrene/Anthracene		U	0.10	0.05	
C4-Phenanthrene/Anthracene		U	0.10	0.05	

**Analytical Results for Volatile and Semivolatile Organics**  
**META Environmental, Inc.**

**Field ID:**      **Soil Blank**

**Preparation Method:**      Solvent Ext. (EPA3570Draft)

**Cleanup Method(s):**

**Client:**            GTI  
**Project:**          NSP-Ashland

**Analysis Method:**      GC/MS (EPA 8260/8270 Mod.)

**Metric:**            Soil

**Preservation:**      None

**Lab ID:**            CW010309-SB  
**File ID:**          30MAR03.D

**Decanted:**          No

**Date Sampled:**  
**Date Received:**  
**Date Prepared:**    3/9/2001  
**Date Cleanup:**  
**Date Analyzed:**    3/30/2001  
**Instrument:**        GC-2/MS  
**Operator:**          kty

**Sample Size:**        2            g  
**%Solid:**            100%  
**Extract Volume:**    2            mL  
**Prep DF:**            1  
**Analysis DF:**        1  
**Injection Volume:** 0.001       mL

**Batch QC:**            CW010309-SB

Analyte:	Concentration mg/kg	Q	RL mg/kg	DL mg/kg	Comments
C0-Dibenzothiophene		U	0.10	0.05	
C1-Dibenzothiophene		U	0.10	0.05	
C2-Dibenzothiophene		U	0.10	0.05	
C3-Dibenzothiophene		U	0.10	0.05	
C0-Fluoranthene/Pyrene		U	0.10	0.05	
C1-Fluoranthene/Pyrene		U	0.10	0.05	
C2-Fluoranthene/Pyrene		U	0.10	0.05	
C3-Fluoranthene/Pyrene		U	0.10	0.05	
C0-Benz(a)anthracene/Chrysene		U	0.10	0.05	
C1-Benz(a)anthracene/Chrysene		U	0.10	0.05	
C2-Benz(a)anthracene/Chrysene		U	0.10	0.05	
C3-Benz(a)anthracene/Chrysene		U	0.10	0.05	
C4-Benz(a)anthracene/Chrysene		U	0.10	0.05	
Surrogates	%R		Min	Max	
Fluorobenzene		62%	50%	150%	
2-Fluorobiphenyl		76%	60%	120%	
5 $\alpha$ -Androstane		84%	50%	120%	

**Qualifiers:**

- B      Analyte detected in the blank
- D      Analyte reported from a diluted extract
- U      Undetected above the detection limit
- J      Estimated value detected between the reporting and detection limits
- E      Estimated value detected above calibration range
- RL     Reporting limit is the sample equivalent of the lowest linear calibration concentration
- EDL    Estimated detection limit is 50% of the RL



**Analytical Results for Volatile and Semivolatile Organics**  
**META Environmental, Inc.**

**Field ID: Blank Spike**

Client: GTI  
 Project: NSP-Ashtand  
 Lab ID: CW010309-SBS  
 File ID: 30MAR04.D

Date Sampled:  
 Date Received:  
 Date Prepared: 3/9/2001  
 Date Cleanup:  
 Date Analyzed: 3/30/2001  
 Instrument: GC-2/MS  
 Operator: kty

Preparation Method: Solvent Ext. (EPA3570Draft)  
 Cleanup Method(s):  
 Analysis Method: GC/MS (EPA 8260/8270 Mod.)  
 Matrix: Soil  
 Preservation: None  
 Decanted: No  
 Sample Size: 2 g  
 %Solid: 100%  
 Extract Volume: 2 mL  
 Prep DF: 1  
 Analysis DF: 1  
 Injection Volume: 0.001 mL  
 Batch QC: CW010309-SB

Analyte:	Concentration mg/kg	Q	RL mg/kg	DL mg/kg	Comments
<b>PAH COMPOUNDS:</b>					
Benzene	13.1		0.10	0.05	52.4%
Toluene	14.2		0.10	0.05	58.8%
Ethylbenzene	14.3		0.10	0.05	57.2%
m/p-Xylenes	14.7		0.10	0.05	58.8%
Styrene	15.2		0.10	0.05	60.8%
o-Xylene	14.1		0.10	0.05	58.4%
1,2,4-Trimethylbenzene	14.7		0.10	0.05	58.8%
Naphthalene	14.8		0.10	0.05	59.2%
2-Methylnaphthalene	18.0		0.10	0.05	64.0%
1-Methylnaphthalene	16.2		0.10	0.05	64.8%
Acenaphthylene	16.5		0.10	0.05	66.0%
Acenaphthene	17.0		0.10	0.05	68.0%
Dibenzofuran	16.1		0.10	0.05	64.4%
Fluorene	16.8		0.10	0.05	67.2%
Phenanthrene	18.0		0.10	0.05	64.0%
Anthracene	18.2		0.10	0.05	72.8%
Fluoranthene	17.1		0.10	0.05	68.4%
Pyrene	16.9		0.10	0.05	67.6%
Benz[a]anthracene	18.7		0.10	0.05	74.8%
Chrysene	18.1		0.10	0.05	72.4%
Benzo[b]fluoranthene	20.4		0.10	0.05	81.6%
Benzo[k]fluoranthene	17.3		0.10	0.05	69.2%
Benzo[a]pyrene	19.1		0.10	0.05	78.4%
Indeno[1,2,3-cd]pyrene	21.5		0.10	0.05	86.0%
Dibenz[a,h]anthracene	22.0		0.10	0.05	88.0%
Benzo[g,h,i]perylene	19.1		0.10	0.05	78.4%
<b>ALKYLATED PAHs:</b>					
C0-Benzene		U	0.10	0.05	
C1-Benzene		U	0.10	0.05	
C2-Benzene		U	0.10	0.05	
C3-Benzene		U	0.10	0.05	
C4-Benzene		U	0.10	0.05	
C5-Benzene		U	0.10	0.05	
C0-Naphthalene		U	0.10	0.05	
C1-Naphthalene		U	0.10	0.05	
C2-Naphthalene		U	0.10	0.05	
C3-Naphthalene		U	0.10	0.05	
C4-Naphthalene		U	0.10	0.05	
C0-Fluorene		U	0.10	0.05	
C1-Fluorene		U	0.10	0.05	
C2-Fluorene		U	0.10	0.05	
C3-Fluorene		U	0.10	0.05	
C0-Phenanthrene/Anthracene		U	0.10	0.05	
C1-Phenanthrene/Anthracene		U	0.10	0.05	
C2-Phenanthrene/Anthracene		U	0.10	0.05	
C3-Phenanthrene/Anthracene		U	0.10	0.05	
C4-Phenanthrene/Anthracene		U	0.10	0.05	

**Analytical Results for Volatile and Semivolatile Organics**  
**META Environmental, Inc.**

**Field ID: Blank Spike**

Preparation Method: Solvent Ext. (EPA3570Draft)  
 Cleanup Method(s):

Client: GTI  
 Project: NSP-Ashland

Analysis Method: GC/MS (EPA 8260/8270 Mod.)  
 Matrix: Soil  
 Preservation: None  
 Decanted: No

Lab ID: CW010309-SBS  
 File ID: 30MAR04.D

Sample Size: 2 g  
 %Solid: 100%  
 Extract Volume: 2 mL  
 Prep DF: 1  
 Analysis DF: 1  
 Injection Volume: 0.001 mL

Date Sampled:  
 Date Received:  
 Date Prepared: 3/9/2001  
 Date Cleanup:  
 Date Analyzed: 3/30/2001  
 Instrument: GC-2/MS  
 Operator: kty

Batch QC: CW010309-SB

Analyte:	Concentration mg/kg	Q	RL mg/kg	DL mg/kg	Comments
C0-Dibenzothiophene		U	0.10	0.05	
C1-Dibenzothiophene		U	0.10	0.05	
C2-Dibenzothiophene		U	0.10	0.05	
C3-Dibenzothiophene		U	0.10	0.05	
C0-Fluoranthene/Pyrene		U	0.10	0.05	
C1-Fluoranthene/Pyrene		U	0.10	0.05	
C2-Fluoranthene/Pyrene		U	0.10	0.05	
C3-Fluoranthene/Pyrene		U	0.10	0.05	
C0-Benz(a)anthracene/Chrysene		U	0.10	0.05	
C1-Benz(a)anthracene/Chrysene		U	0.10	0.05	
C2-Benz(a)anthracene/Chrysene		U	0.10	0.05	
C3-Benz(a)anthracene/Chrysene		U	0.10	0.05	
C4-Benz(a)anthracene/Chrysene		U	0.10	0.05	
Surrogates	%R		Min	Max	
Fluorobiphenyl	51%		50%	150%	
2-Fluorobiphenyl	68%		50%	120%	
5a-Androstane	76%		50%	120%	

Qualifiers:  
 B Analyte detected in the blank  
 D Analyte reported from a diluted extract  
 U Undetected above the detection limit  
 J Estimated value detected between the reporting and detection limits  
 E Estimated value detected above calibration range  
 RL Reporting limit is the sample equivalent of the lowest linear calibration concentration  
 EDL Estimated detection limit is 50% of the RL

META ENVIRONMENTAL SAMPLE RECEIPT

Lab ID	Field ID	Matrix	Analysis	Date Sampled	Date Received	Client/Project	Container/Storage
IG010309-01a,b,c	SD54-4	Soil	2508/4007	03/05/01	03/09/01	105001-60	2x32oz jars & 4oz jar
IG010309-02a,b	SD9-4	Soil	2508/4007	03/07/01	03/09/01	105001-60	2x32oz jars & 4oz jar
IG010309-03a,b,c	SD50-10	Soil	2508/4007	03/07/01	03/09/01	105001-60	2x32oz jars
IG010309-04a,b,c	SD51-8	Soil	2508/4007	03/07/01	03/09/01	105001-60	2x32oz jars & 4oz jar
IG010309-05a,b,c	SD37-4	Soil	2508/4007	03/05/01	03/09/01	105001-60	2x32oz jars & 4oz jar
IG010309-06a,b,c	SD15-6	Soil	2508/4007	03/07/01	03/09/01	105001-60	2x32oz jars & 4oz jar
IG010309-07a,b,c	SD47-4	Soil	2508/4007	03/05/01	03/09/01	105001-60	2x32oz jars & 4oz jar
IG010309-08a,b	SD56-4	Soil	2508/4007	03/05/01	03/09/01	105001-60	2x32oz jars
IG010309-09a,b,c	SD34-2	Soil	2508/4007	03/05/01	03/09/01	105001-60	2x32oz jars & 4oz jar
IG010309-10a,b,c	SD48-8	Soil	2508/4007	03/07/01	03/09/01	105001-60	2x32oz jars & 4oz jar

*Raina*  
3/09/01

**CHAIN OF CUSTODY RECORD**

**GENERATOR INFORMATION**

**SAMPLE INFORMATION**

Facility	No.	DEPTH	TYPE	DATE	TIME
<u>NSP - Ashland</u>	<u>IG IR010309-01<sup>abc</sup> RH SD54-4</u>	<u>4</u>	<u>Soil</u>	<u>3-5</u>	<u>0855</u>
<u>Address 301 Lakeshore Dr.</u>	<u>-02ab SD9-4</u>	<u>4</u>		<u>3-7</u>	<u>1440</u>
<u>Ashland, WI</u>	<u>-03ab SD50-10</u>	<u>10</u>		<u>3-7</u>	<u>1335</u>
<u>Telephone ( )</u>	<u>-04a,b,c SD51-8</u>	<u>8</u>		<u>3-7-01</u>	<u>1725</u>
	<u>-05abc SD37-4</u>	<u>4</u>		<u>3-5</u>	<u>0945</u>

**COLLECTOR INFORMATION**

<u>Collected by Derek Zoellner / URS Corp.</u>	<u>-06ab SD15-6</u>	<u>6</u>		<u>3-6</u>	<u>1505</u>
<u>Address 5250 E Terrace Dr. Ste I</u>	<u>-07a,b,c SD47-4</u>	<u>4</u>		<u>3-5</u>	<u>1615</u>
<u>Madison, WI 53718</u>	<u>-08ab SD56-4</u>	<u>4</u>		<u>3-5</u>	<u>1545</u>
<u>Telephone (608) 244-5656</u>	<u>-09abc SD34-2</u>	<u>2</u>		<u>3-5</u>	<u>1300</u>
	<u>-10abc SD48-8</u>	<u>8</u>	<u>✓</u>	<u>3-7</u>	<u>0845</u>

Suspected Waste Constituents Analyze for Modified 8100 fingerprint, Note 8260, PAH 8270 scan

Field Conditions/Remarks For results to Dave Trainer @ 608-244-1779 or call w/ questions @ 608-244-5656

**SAMPLE ALLOCATION**

Name \_\_\_\_\_ sample received intact

Address \_\_\_\_\_ sample received damaged or missing (describe on back)

Telephone ( ) \_\_\_\_\_

(Signature) \_\_\_\_\_ (Date) \_\_\_\_\_

**CHAIN OF POSSESSION**

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
<u>[Signature]</u>	<u>3/8/01</u>	<u>1320</u>			
			<u>Raina Hubner</u>	<u>03/09/01</u>	
			<u>Rec'd @ 4°C</u>		

**Distribution**

White-w/shipment-for consignee files  
 Blue-w/shipment-forward to Dames & Moore  
 Attn: \_\_\_\_\_

Pink-with report  
 Goldenrod-Dames & Moore - Job File  
**Dames & Moore**

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**APPENDIX D**

**TEST AMERICA LABORATORY REPORTS  
SEDIMENT SAMPLES**

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## ANALYTICAL AND QUALITY CONTROL REPORT

Mr. Dave Trainor  
URS/DAMES & MOORE  
5250 East Terrace Drive  
Suite I  
Madison, WI 53718

03/19/2001  
Job No: 01.01188  
Page 1 of 118

Enclosed are the Analytical and Quality Control reports for the following samples submitted for analysis:

Sample Number	Sample Description	Date Taken	Date Received
428098	SD-3 0-2 05644-097 NSP/XCEL	03/01/2001	03/02/2001
428099	SD-3 2-4 05644-097 NSP/XCEL	03/01/2001	03/02/2001
428100	SD-3 4-6 05644-097 NSP/XCEL	03/01/2001	03/02/2001
428101	SD-3 6-8 05644-097 NSP/XCEL	03/01/2001	03/02/2001
428102	SD-11 0-2 05644-097 NSP/XCEL	03/01/2001	03/02/2001
428103	SD-11 2-4 05644-097 NSP/XCEL	03/01/2001	03/02/2001
428104	SD-11 4-6 05644-097 NSP/XCEL	03/01/2001	03/02/2001
428105	SD-11 6-8 05644-097 NSP/XCEL	03/01/2001	03/02/2001
428106	SD-23 6-8 05644-097 NSP/XCEL	03/01/2001	03/02/2001
428107	SD-21 0-2 05644-097 NSP/XCEL	03/01/2001	03/02/2001
428108	SD-21 2-4 05644-097 NSP/XCEL	03/01/2001	03/02/2001
428109	SD-21 4-5 05644-097 NSP/XCEL	03/01/2001	03/02/2001
428110	SD-21 7-8 05644-097 NSP/XCEL	03/01/2001	03/02/2001
428111	SD-21 9-10 05644-097 NSP/XCEL	03/01/2001	03/02/2001
428112	SD-12 2-4 05644-097 NSP/XCEL	03/01/2001	03/02/2001
428113	SD-12 4-6 05644-097 NSP/XCEL	03/01/2001	03/02/2001
428114	SD-12 6-8 05644-097 NSP/XCEL	03/01/2001	03/02/2001
428115	SD-23 0-2 05644-097 NSP/XCEL	03/01/2001	03/02/2001
428116	SD-23 2-4 05644-097 NSP/XCEL	03/01/2001	03/02/2001
428117	SD-2-4 05644-097 NSP/XCEL	02/28/2001	03/02/2001

Soil results are reported on a dry weight basis. The above sample(s) may have a result flag shown on the report. The following are the result flag definitions:

A = Analyzed/extracted past hold time	B = Blank is contaminated
C = Standard outside of control limits	D = Diluted for analysis
F = Sample filtered in lab	G = Received past hold time
H = Late eluting hydrocarbons present	I = Improperly handled sample
J = Estimated concentration	L = Common lab solvent and contaminant
M = Matrix interference	P = Improperly preserved sample
Q = Result confirmed via re-analysis	S = Sediment present
T = Does not match typical pattern	X = Unidentified compound(s) present
Z = Internal standard outside limits	

  
Project Manager

  
Operations Manager

## ANALYTICAL AND QUALITY CONTROL REPORT

Mr. Dave Trainor  
URS/DAMES & MOORE  
5250 East Terrace Drive  
Suite I  
Madison, WI 53718

03/19/2001  
Job No: 01.01188  
Page 2 of 118

Enclosed are the Analytical and Quality Control reports for the following samples submitted for analysis:

Sample Number	Sample Description	Date Taken	Date Received
428118	SD-2-6 05644-097 NSP/XCEL	02/28/2001	03/02/2001
428119	SD-2-8 05644-097 NSP/XCEL	02/28/2001	03/02/2001
428120	SD-5-4 05644-097 NSP/XCEL	02/28/2001	03/02/2001
428121	SD-5-6 05644-097 NSP/XCEL	02/28/2001	03/02/2001
428122	SD-5-8 05644-097 NSP/XCEL	02/28/2001	03/02/2001
428123	SD-13-4 05644-097 NSP/XCEL	02/28/2001	03/02/2001
428124	SD-1-2 05644-097 NSP/XCEL	02/28/2001	03/02/2001
428125	SD-1-4 05644-097 NSP/XCEL	02/28/2001	03/02/2001
428126	SD-1-6 05644-097 NSP/XCEL	02/28/2001	03/02/2001
428127	SD-1-8 05644-097 NSP/XCEL	02/28/2001	03/02/2001
428128	SD-4-2 05644-097 NSP/XCEL	02/28/2001	03/02/2001
428129	SD-4-4 05644-097 NSP/XCEL	02/28/2001	03/02/2001
428130	SD-4-6 05644-097 NSP/XCEL	02/28/2001	03/02/2001
428131	SD-4-8 05644-097 NSP/XCEL	02/28/2001	03/02/2001

Soil results are reported on a dry weight basis. The above sample(s) may have a result flag shown on the report. The following are the result flag definitions:

A = Analyzed/extracted past hold time	B = Blank is contaminated
C = Standard outside of control limits	D = Diluted for analysis
F = Sample filtered in lab	G = Received past hold time
H = Late eluting hydrocarbons present	I = Improperly handled sample
J = Estimated concentration	L = Common lab solvent and contaminant
M = Matrix interference	P = Improperly preserved sample
Q = Result confirmed via re-analysis	S = Sediment present
T = Does not match typical pattern	X = Unidentified compound(s) present
Z = Internal standard outside limits	

  
Project Manager

  
Operations Manager

## ANALYTICAL REPORT

Mr. Dave Trainor  
 URS/DAMES & MOORE  
 5250 East Terrace Drive  
 Suite I  
 Madison, WI 53718

03/19/2001  
 Job No: 01.01188  
 Sample No: 428098  
 Account No: 21400  
 Page 3 of 118

JOB DESCRIPTION: 05644-097 NSP/XCEL Ashland  
 PROJECT DESCRIPTION: Sediment Analysis  
 SAMPLE DESCRIPTION: SD-3 0-2 05644-097 NSP/XCEL  
 Ashland, WI  
 Rec'd on ice

Date/Time Taken: 03/01/2001 09:45      Date Received: 03/02/2001

Parameter	Results	Units	Reporting Limit	Method	Date Analyzed	Prep/Run Batch
-Solids, Total	65.6	%	n/a	SW 5030	03/07/2001	3575
BASE/NEUTRALS-8270 NONAQUEOUS						
Acenaphthene	<0.50	mg/kg	0.33	SW 8270B	03/08/2001	326
Acenaphthylene	<0.50	mg/kg	0.33	SW 8270B	03/08/2001	326
Anthracene	<0.50	mg/kg	0.33	SW 8270B	03/08/2001	326
Benzo(a)anthracene	<0.50	mg/kg	0.33	SW 8270B	03/08/2001	326
Benzo(b)fluoranthene	<0.50	mg/kg	0.33	SW 8270B	03/08/2001	326
Benzo(k)fluoranthene	<0.50	mg/kg	0.33	SW 8270B	03/08/2001	326
Benzo(g,h,i)perylene	<0.50	mg/kg	0.33	SW 8270B	03/08/2001	326
Benzo(a)pyrene	<0.50	mg/kg	0.33	SW 8270B	03/08/2001	326
Chrysene	<0.50	mg/kg	0.33	SW 8270B	03/08/2001	326
Dibenzo(a,h)anthracene	<0.50	mg/kg	0.33	SW 8270B	03/08/2001	326
Fluoranthene	0.50	mg/kg	0.33	SW 8270B	03/08/2001	326
Fluorene	<0.50	mg/kg	0.33	SW 8270B	03/08/2001	326
Indeno(1,2,3-cd)pyrene	<0.50	mg/kg	0.33	SW 8270B	03/08/2001	326
-2-Methylnaphthalene	<0.50	mg/kg	0.33	SW 8270B	03/08/2001	326
Naphthalene	<0.50	mg/kg	0.33	SW 8270B	03/08/2001	326
Phenanthrene	<0.50	mg/kg	0.33	SW 8270B	03/08/2001	326
Pyrene	<0.50	mg/kg	0.33	SW 8270B	03/08/2001	326
Surr: Nitrobenzene-d5	99.9	%	n/a	SW 8270B	03/08/2001	326
Surr: 2-Fluorobiphenyl	91.8	%	n/a	SW 8270B	03/08/2001	326
Surr: Terphenyl-d14	84.2	%	n/a	SW 8270B	03/08/2001	326
VOC - METHANOL - 8260B						
Benzene	<38	ug/kg	25	SW 8260B	03/05/2001	1145
Bromobenzene	<38	ug/kg	25	SW 8260B	03/05/2001	1145
Bromochloromethane	<38	ug/kg	25	SW 8260B	03/05/2001	1145
-Bromodichloromethane	<38	ug/kg	25	SW 8260B	03/05/2001	1145
Bromoform	<38	ug/kg	25	SW 8260B	03/05/2001	1145
Bromomethane	<152	ug/kg	100	SW 8260B	03/05/2001	1145
n-Butylbenzene	<38	ug/kg	25	SW 8260B	03/05/2001	1145
sec-Butylbenzene	<38	ug/kg	25	SW 8260B	03/05/2001	1145
tert-Butylbenzene	<38	ug/kg	25	SW 8260B	03/05/2001	1145
Carbon Tetrachloride	<38	ug/kg	25	SW 8260B	03/05/2001	1145
Chlorobenzene	<38	ug/kg	25	SW 8260B	03/05/2001	1145
Chlorodibromomethane	<38	ug/kg	25	SW 8260B	03/05/2001	1145
Chloroethane	<53	ug/kg	35	SW 8260B	03/05/2001	1145
Chloroform	<38	ug/kg	25	SW 8260B	03/05/2001	1145
Chloromethane	<76	ug/kg	50	SW 8260B	03/05/2001	1145
2-Chlorotoluene	<38	ug/kg	25	SW 8260B	03/05/2001	1145



## ANALYTICAL REPORT

Mr. Dave Trainor  
 URS/DAMES & MOORE  
 5250 East Terrace Drive  
 Suite I  
 Madison, WI 53718

03/19/2001  
 Job No: 01.01188  
 Sample No: 428098  
 Account No: 21400  
 Page 4 of 118

JOB DESCRIPTION: 05644-097 NSP/XCEL Ashland  
 PROJECT DESCRIPTION: Sediment Analysis  
 SAMPLE DESCRIPTION: SD-3 0-2 05644-097 NSP/XCEL  
 Ashland, WI  
 Rec'd on ice

Date/Time Taken: 03/01/2001 09:45

Date Received: 03/02/2001

Parameter	Results	Units	Reporting Limit	Method	Date Analyzed	Prep/Run Batch
4-Chlorotoluene	<38	ug/kg	25	SW 8260B	03/05/2001	1145
1,2-Dibromo-3-Chloropropane	<76	ug/kg	50	SW 8260B	03/05/2001	1145
1,2-Dibromoethane (EDB)	<38	ug/kg	25	SW 8260B	03/05/2001	1145
Dibromomethane	<38	ug/kg	25	SW 8260B	03/05/2001	1145
1,2-Dichlorobenzene	<38	ug/kg	25	SW 8260B	03/05/2001	1145
1,3-Dichlorobenzene	<38	ug/kg	25	SW 8260B	03/05/2001	1145
1,4-Dichlorobenzene	<38	ug/kg	25	SW 8260B	03/05/2001	1145
Dichlorodifluoromethane	<38	ug/kg	25	SW 8260B	03/05/2001	1145
1,1-Dichloroethane	<38	ug/kg	25	SW 8260B	03/05/2001	1145
1,2-Dichloroethane	<38	ug/kg	25	SW 8260B	03/05/2001	1145
1,1-Dichloroethene	<38	ug/kg	25	SW 8260B	03/05/2001	1145
cis-1,2-Dichloroethene	<38	ug/kg	25	SW 8260B	03/05/2001	1145
trans-1,2-Dichloroethene	<38	ug/kg	25	SW 8260B	03/05/2001	1145
1,2-Dichloropropane	<38	ug/kg	25	SW 8260B	03/05/2001	1145
1,3-Dichloropropane	<38	ug/kg	25	SW 8260B	03/05/2001	1145
2,2-Dichloropropane	<38	ug/kg	25	SW 8260B	03/05/2001	1145
1,1-Dichloropropene	<38	ug/kg	25	SW 8260B	03/05/2001	1145
cis-1,3-Dichloropropene	<38	ug/kg	25	SW 8260B	03/05/2001	1145
trans-1,3-Dichloropropene	<38	ug/kg	25	SW 8260B	03/05/2001	1145
Di-isopropyl ether	<38	ug/kg	25	SW 8260B	03/05/2001	1145
Ethylbenzene	<38	ug/kg	25	SW 8260B	03/05/2001	1145
Hexachlorobutadiene	<53	ug/kg	35	SW 8260B	03/05/2001	1145
Isopropylbenzene	<38	ug/kg	25	SW 8260B	03/05/2001	1145
p-Isopropyltoluene	1,520	ug/kg	25	SW 8260B	03/05/2001	1145
Methylene Chloride	<76	ug/kg	50	SW 8260B	03/05/2001	1145
Methyl-t-butyl ether	<38	ug/kg	25	SW 8260B	03/05/2001	1145
Naphthalene	<38	ug/kg	25	SW 8260B	03/05/2001	1145
n-Propylbenzene	<38	ug/kg	25	SW 8260B	03/05/2001	1145
Styrene	<38	ug/kg	25	SW 8260B	03/05/2001	1145
1,1,1,2-Tetrachloroethane	<38	ug/kg	25	SW 8260B	03/05/2001	1145
1,1,2,2-Tetrachloroethane	<38	ug/kg	25	SW 8260B	03/05/2001	1145
Tetrachloroethene	<38	ug/kg	25	SW 8260B	03/05/2001	1145
Toluene	53	ug/kg	25	SW 8260B	03/05/2001	1145
1,2,3-Trichlorobenzene	<38	ug/kg	25	SW 8260B	03/05/2001	1145
1,2,4-Trichlorobenzene	<38	ug/kg	25	SW 8260B	03/05/2001	1145
1,1,1-Trichloroethane	<38	ug/kg	25	SW 8260B	03/05/2001	1145
1,1,2-Trichloroethane	<38	ug/kg	25	SW 8260B	03/05/2001	1145
Trichloroethene	<38	ug/kg	25	SW 8260B	03/05/2001	1145
Trichlorofluoromethane	<38	ug/kg	25	SW 8260B	03/05/2001	1145

## ANALYTICAL REPORT

Mr. Dave Trainor  
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03/19/2001  
 Job No: 01.01188  
 Sample No: 428098  
 Account No: 21400  
 Page 5 of 118

JOB DESCRIPTION: 05644-097 NSP/XCEL Ashland  
 PROJECT DESCRIPTION: Sediment Analysis  
 SAMPLE DESCRIPTION: SD-3 0-2 05644-097 NSP/XCEL  
 Ashland, WI  
 Rec'd on ice

Date/Time Taken: 03/01/2001 09:45

Date Received: 03/02/2001

Parameter	Results	Units	Reporting Limit	Method	Date Analyzed	Prep/Run Batch
1,2,3-Trichloropropane	<38	ug/kg	25	SW 8260B	03/05/2001	1145
1,2,4-Trimethylbenzene	<38	ug/kg	25	SW 8260B	03/05/2001	1145
1,3,5-Trimethylbenzene	<38	ug/kg	25	SW 8260B	03/05/2001	1145
Vinyl Chloride	<38	ug/kg	25	SW 8260B	03/05/2001	1145
Xylenes, Total	<53	ug/kg	35	SW 8260B	03/05/2001	1145
Surr: Dibromofluoromethane	106.8	%	85-113	SW 8260B	03/05/2001	1145
Surr: Toluene-d8	101.6	%	93-105	SW 8260B	03/05/2001	1145
Surr: Bromofluorobenzene	102.0	%	85-111	SW 8260B	03/05/2001	1145

## ANALYTICAL REPORT

Mr. Dave Trainor  
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03/19/2001  
 Job No: 01.01188  
 Sample No: 428099  
 Account No: 21400  
 Page 6 of 118

JOB DESCRIPTION: 05644-097 NSP/XCEL Ashland  
 PROJECT DESCRIPTION: Sediment Analysis  
 SAMPLE DESCRIPTION: SD-3 2-4 05644-097 NSP/XCEL  
 Ashland, WI  
 Rec'd on ice

Date/Time Taken: 03/01/2001 09:50      Date Received: 03/02/2001

Parameter	Results	Units	Reporting Limit	Method	Date Analyzed	Prep/Run Batch
Solids, Total	80.0	%	n/a	SW 5030	03/07/2001	3575
BASE/NEUTRALS-8270 NONAQUEOUS						
Acenaphthene	<0.41	mg/kg	0.33	SW 8270B	03/08/2001	326
Acenaphthylene	<0.41	mg/kg	0.33	SW 8270B	03/08/2001	326
Anthracene	<0.41	mg/kg	0.33	SW 8270B	03/08/2001	326
Benzo(a)anthracene	<0.41	mg/kg	0.33	SW 8270B	03/08/2001	326
Benzo(b)fluoranthene	<0.41	mg/kg	0.33	SW 8270B	03/08/2001	326
Benzo(k)fluoranthene	<0.41	mg/kg	0.33	SW 8270B	03/08/2001	326
Benzo(g,h,i)perylene	<0.41	mg/kg	0.33	SW 8270B	03/08/2001	326
Benzo(a)pyrene	<0.41	mg/kg	0.33	SW 8270B	03/08/2001	326
Chrysene	<0.41	mg/kg	0.33	SW 8270B	03/08/2001	326
Dibenzo(a,h)anthracene	<0.41	mg/kg	0.33	SW 8270B	03/08/2001	326
Fluoranthene	<0.41	mg/kg	0.33	SW 8270B	03/08/2001	326
Fluorene	<0.41	mg/kg	0.33	SW 8270B	03/08/2001	326
Indeno(1,2,3-cd)pyrene	<0.41	mg/kg	0.33	SW 8270B	03/08/2001	326
2-Methylnaphthalene	<0.41	mg/kg	0.33	SW 8270B	03/08/2001	326
Naphthalene	<0.41	mg/kg	0.33	SW 8270B	03/08/2001	326
Phenanthrene	<0.41	mg/kg	0.33	SW 8270B	03/08/2001	326
Pyrene	<0.41	mg/kg	0.33	SW 8270B	03/08/2001	326
Surr: Nitrobenzene-d5	74.8	%	n/a	SW 8270B	03/08/2001	326
Surr: 2-Fluorobiphenyl	69.8	%	n/a	SW 8270B	03/08/2001	326
Surr: Terphenyl-d14	84.6	%	n/a	SW 8270B	03/08/2001	326
VOC - METHANOL - 8260B						
Benzene	<31	ug/kg	25	SW 8260B	03/05/2001	1145
Bromobenzene	<31	ug/kg	25	SW 8260B	03/05/2001	1145
Bromochloromethane	<31	ug/kg	25	SW 8260B	03/05/2001	1145
Bromodichloromethane	<31	ug/kg	25	SW 8260B	03/05/2001	1145
Bromoform	<31	ug/kg	25	SW 8260B	03/05/2001	1145
Bromomethane	<125	ug/kg	100	SW 8260B	03/05/2001	1145
n-Butylbenzene	<31	ug/kg	25	SW 8260B	03/05/2001	1145
sec-Butylbenzene	<31	ug/kg	25	SW 8260B	03/05/2001	1145
tert-Butylbenzene	<31	ug/kg	25	SW 8260B	03/05/2001	1145
Carbon Tetrachloride	<31	ug/kg	25	SW 8260B	03/05/2001	1145
Chlorobenzene	<31	ug/kg	25	SW 8260B	03/05/2001	1145
Chlorodibromomethane	<31	ug/kg	25	SW 8260B	03/05/2001	1145
Chloroethane	<44	ug/kg	35	SW 8260B	03/05/2001	1145
Chloroform	<31	ug/kg	25	SW 8260B	03/05/2001	1145
Chloromethane	<62	ug/kg	50	SW 8260B	03/05/2001	1145
2-Chlorotoluene	<31	ug/kg	25	SW 8260B	03/05/2001	1145

## ANALYTICAL REPORT

Mr. Dave Trainor  
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03/19/2001  
 Job No: 01.01188  
 Sample No: 428099  
 Account No: 21400  
 Page 7 of 118

JOB DESCRIPTION: 05644-097 NSP/XCEL Ashland  
 PROJECT DESCRIPTION: Sediment Analysis  
 SAMPLE DESCRIPTION: SD-3 2-4 05644-097 NSP/XCEL  
 Ashland, WI  
 Rec'd on ice

Date/Time Taken: 03/01/2001 09:50      Date Received: 03/02/2001

Parameter	Results	Units	Reporting Limit	Method	Date Analyzed	Prep/Run Batch
4-Chlorotoluene	<31	ug/kg	25	SW 8260B	03/05/2001	1145
1,2-Dibromo-3-Chloropropane	<62	ug/kg	50	SW 8260B	03/05/2001	1145
1,2-Dibromoethane (EDB)	<31	ug/kg	25	SW 8260B	03/05/2001	1145
Dibromomethane	<31	ug/kg	25	SW 8260B	03/05/2001	1145
1,2-Dichlorobenzene	<31	ug/kg	25	SW 8260B	03/05/2001	1145
1,3-Dichlorobenzene	<31	ug/kg	25	SW 8260B	03/05/2001	1145
1,4-Dichlorobenzene	<31	ug/kg	25	SW 8260B	03/05/2001	1145
Dichlorodifluoromethane	<31	ug/kg	25	SW 8260B	03/05/2001	1145
1,1-Dichloroethane	<31	ug/kg	25	SW 8260B	03/05/2001	1145
1,2-Dichloroethane	<31	ug/kg	25	SW 8260B	03/05/2001	1145
1,1-Dichloroethene	<31	ug/kg	25	SW 8260B	03/05/2001	1145
cis-1,2-Dichloroethene	<31	ug/kg	25	SW 8260B	03/05/2001	1145
trans-1,2-Dichloroethene	<31	ug/kg	25	SW 8260B	03/05/2001	1145
1,2-Dichloropropane	<31	ug/kg	25	SW 8260B	03/05/2001	1145
1,3-Dichloropropane	<31	ug/kg	25	SW 8260B	03/05/2001	1145
2,2-Dichloropropane	<31	ug/kg	25	SW 8260B	03/05/2001	1145
1,1-Dichloropropene	<31	ug/kg	25	SW 8260B	03/05/2001	1145
cis-1,3-Dichloropropene	<31	ug/kg	25	SW 8260B	03/05/2001	1145
trans-1,3-Dichloropropene	<31	ug/kg	25	SW 8260B	03/05/2001	1145
Di-isopropyl ether	<31	ug/kg	25	SW 8260B	03/05/2001	1145
Ethylbenzene	<31	ug/kg	25	SW 8260B	03/05/2001	1145
Hexachlorobutadiene	<44	ug/kg	35	SW 8260B	03/05/2001	1145
Isopropylbenzene	<31	ug/kg	25	SW 8260B	03/05/2001	1145
p-Isopropyltoluene	<31	ug/kg	25	SW 8260B	03/05/2001	1145
Methylene Chloride	L 88	ug/kg	50	SW 8260B	03/05/2001	1145
Methyl-t-butyl ether	<31	ug/kg	25	SW 8260B	03/05/2001	1145
Naphthalene	<31	ug/kg	25	SW 8260B	03/05/2001	1145
n-Propylbenzene	<31	ug/kg	25	SW 8260B	03/05/2001	1145
Styrene	<31	ug/kg	25	SW 8260B	03/05/2001	1145
1,1,1,2-Tetrachloroethane	<31	ug/kg	25	SW 8260B	03/05/2001	1145
1,1,2,2-Tetrachloroethane	<31	ug/kg	25	SW 8260B	03/05/2001	1145
Tetrachloroethene	<31	ug/kg	25	SW 8260B	03/05/2001	1145
Toluene	<31	ug/kg	25	SW 8260B	03/05/2001	1145
1,2,3-Trichlorobenzene	<31	ug/kg	25	SW 8260B	03/05/2001	1145
1,2,4-Trichlorobenzene	<31	ug/kg	25	SW 8260B	03/05/2001	1145
1,1,1-Trichloroethane	<31	ug/kg	25	SW 8260B	03/05/2001	1145
1,1,2-Trichloroethane	<31	ug/kg	25	SW 8260B	03/05/2001	1145
Trichloroethene	<31	ug/kg	25	SW 8260B	03/05/2001	1145
Trichlorofluoromethane	<31	ug/kg	25	SW 8260B	03/05/2001	1145

## ANALYTICAL REPORT

Mr. Dave Trainor  
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03/19/2001  
 Job No: 01.01188  
 Sample No: 428099  
 Account No: 21400  
 Page 8 of 118

JOB DESCRIPTION: 05644-097 NSP/XCEL Ashland  
 PROJECT DESCRIPTION: Sediment Analysis  
 SAMPLE DESCRIPTION: SD-3 2-4 05644-097 NSP/XCEL  
 Ashland, WI  
 Rec'd on ice

Date/Time Taken: 03/01/2001 09:50      Date Received: 03/02/2001

Parameter	Results	Units	Reporting Limit	Method	Date Analyzed	Prep/Run Batch
1,2,3-Trichloropropane	<31	ug/kg	25	SW 8260B	03/05/2001	1145
1,2,4-Trimethylbenzene	<31	ug/kg	25	SW 8260B	03/05/2001	1145
1,3,5-Trimethylbenzene	<31	ug/kg	25	SW 8260B	03/05/2001	1145
Vinyl Chloride	<31	ug/kg	25	SW 8260B	03/05/2001	1145
Xylenes, Total	<44	ug/kg	35	SW 8260B	03/05/2001	1145
_Surr: Dibromofluoromethane	106.8	%	85-113	SW 8260B	03/05/2001	1145
_Surr: Toluene-d8	101.4	%	93-105	SW 8260B	03/05/2001	1145
_Surr: Bromofluorobenzene	100.8	%	85-111	SW 8260B	03/05/2001	1145

## ANALYTICAL REPORT

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03/19/2001  
 Job No: 01.01188  
 Sample No: 428100  
 Account No: 21400  
 Page 9 of 118

JOB DESCRIPTION: 05644-097 NSP/XCEL Ashland  
 PROJECT DESCRIPTION: Sediment Analysis  
 SAMPLE DESCRIPTION: SD-3 4-6 05644-097 NSP/XCEL  
 Ashland, WI  
 Rec'd on ice

Date/Time Taken: 03/01/2001 09:55      Date Received: 03/02/2001

Parameter	Results	Units	Reporting Limit	Method	Date Analyzed	Prep/Run Batch
Solids, Total	80.0	%	n/a	SW 5030	03/07/2001	3575
BASE/NEUTRALS-8270 NONAQUEOUS						
Acenaphthene	<0.41	mg/kg	0.33	SW 8270B	03/08/2001	326
Acenaphthylene	<0.41	mg/kg	0.33	SW 8270B	03/08/2001	326
Anthracene	<0.41	mg/kg	0.33	SW 8270B	03/08/2001	326
Benzo(a)anthracene	<0.41	mg/kg	0.33	SW 8270B	03/08/2001	326
Benzo(b)fluoranthene	<0.41	mg/kg	0.33	SW 8270B	03/08/2001	326
Benzo(k)fluoranthene	<0.41	mg/kg	0.33	SW 8270B	03/08/2001	326
Benzo(g,h,i)perylene	<0.41	mg/kg	0.33	SW 8270B	03/08/2001	326
Benzo(a)pyrene	<0.41	mg/kg	0.33	SW 8270B	03/08/2001	326
Chrysene	<0.41	mg/kg	0.33	SW 8270B	03/08/2001	326
Dibenzo(a,h)anthracene	<0.41	mg/kg	0.33	SW 8270B	03/08/2001	326
Fluoranthene	<0.41	mg/kg	0.33	SW 8270B	03/08/2001	326
Fluorene	<0.41	mg/kg	0.33	SW 8270B	03/08/2001	326
Indeno(1,2,3-cd)pyrene	<0.41	mg/kg	0.33	SW 8270B	03/08/2001	326
2-Methylnaphthalene	<0.41	mg/kg	0.33	SW 8270B	03/08/2001	326
Naphthalene	<0.41	mg/kg	0.33	SW 8270B	03/08/2001	326
Phenanthrene	<0.41	mg/kg	0.33	SW 8270B	03/08/2001	326
Pyrene	<0.41	mg/kg	0.33	SW 8270B	03/08/2001	326
Surr: Nitrobenzene-d5	73.7	%	n/a	SW 8270B	03/08/2001	326
Surr: 2-Fluorobiphenyl	67.1	%	n/a	SW 8270B	03/08/2001	326
Surr: Terphenyl-d14	98.7	%	n/a	SW 8270B	03/08/2001	326
VOC - METHANOL - 8260B						
Benzene	<31	ug/kg	25	SW 8260B	03/05/2001	1145
Bromobenzene	<31	ug/kg	25	SW 8260B	03/05/2001	1145
Bromochloromethane	<31	ug/kg	25	SW 8260B	03/05/2001	1145
Bromodichloromethane	<31	ug/kg	25	SW 8260B	03/05/2001	1145
Bromoform	<31	ug/kg	25	SW 8260B	03/05/2001	1145
Bromomethane	<125	ug/kg	100	SW 8260B	03/05/2001	1145
n-Butylbenzene	<31	ug/kg	25	SW 8260B	03/05/2001	1145
sec-Butylbenzene	<31	ug/kg	25	SW 8260B	03/05/2001	1145
tert-Butylbenzene	<31	ug/kg	25	SW 8260B	03/05/2001	1145
Carbon Tetrachloride	<31	ug/kg	25	SW 8260B	03/05/2001	1145
Chlorobenzene	<31	ug/kg	25	SW 8260B	03/05/2001	1145
Chlorodibromomethane	<31	ug/kg	25	SW 8260B	03/05/2001	1145
Chloroethane	<44	ug/kg	35	SW 8260B	03/05/2001	1145
Chloroform	<31	ug/kg	25	SW 8260B	03/05/2001	1145
Chloromethane	<62	ug/kg	50	SW 8260B	03/05/2001	1145
2-Chlorotoluene	<31	ug/kg	25	SW 8260B	03/05/2001	1145

## ANALYTICAL REPORT

Mr. Dave Trainor  
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03/19/2001  
 Job No: 01.01188  
 Sample No: 428100  
 Account No: 21400  
 Page 10 of 118

JOB DESCRIPTION: 05644-097 NSP/XCEL Ashland  
 PROJECT DESCRIPTION: Sediment Analysis  
 SAMPLE DESCRIPTION: SD-3 4-6 05644-097 NSP/XCEL  
 Ashland, WI  
 Rec'd on ice

Date/Time Taken: 03/01/2001 09:55      Date Received: 03/02/2001

Parameter	Results	Units	Reporting Limit	Method	Date Analyzed	Prep/Run Batch
-4-Chlorotoluene	<31	ug/kg	25	SW 8260B	03/05/2001	1145
1,2-Dibromo-3-Chloropropane	<62	ug/kg	50	SW 8260B	03/05/2001	1145
1,2-Dibromoethane (EDB)	<31	ug/kg	25	SW 8260B	03/05/2001	1145
Dibromomethane	<31	ug/kg	25	SW 8260B	03/05/2001	1145
-1,2-Dichlorobenzene	<31	ug/kg	25	SW 8260B	03/05/2001	1145
1,3-Dichlorobenzene	<31	ug/kg	25	SW 8260B	03/05/2001	1145
1,4-Dichlorobenzene	<31	ug/kg	25	SW 8260B	03/05/2001	1145
Dichlorodifluoromethane	<31	ug/kg	25	SW 8260B	03/05/2001	1145
1,1-Dichloroethane	<31	ug/kg	25	SW 8260B	03/05/2001	1145
1,2-Dichloroethane	<31	ug/kg	25	SW 8260B	03/05/2001	1145
1,1-Dichloroethene	<31	ug/kg	25	SW 8260B	03/05/2001	1145
-cis-1,2-Dichloroethene	<31	ug/kg	25	SW 8260B	03/05/2001	1145
trans-1,2-Dichloroethene	<31	ug/kg	25	SW 8260B	03/05/2001	1145
1,2-Dichloropropane	<31	ug/kg	25	SW 8260B	03/05/2001	1145
1,3-Dichloropropane	<31	ug/kg	25	SW 8260B	03/05/2001	1145
-2,2-Dichloropropane	<31	ug/kg	25	SW 8260B	03/05/2001	1145
1,1-Dichloropropene	<31	ug/kg	25	SW 8260B	03/05/2001	1145
cis-1,3-Dichloropropene	<31	ug/kg	25	SW 8260B	03/05/2001	1145
trans-1,3-Dichloropropene	<31	ug/kg	25	SW 8260B	03/05/2001	1145
-Di-isopropyl ether	<31	ug/kg	25	SW 8260B	03/05/2001	1145
Ethylbenzene	<31	ug/kg	25	SW 8260B	03/05/2001	1145
Hexachlorobutadiene	<44	ug/kg	35	SW 8260B	03/05/2001	1145
Isopropylbenzene	<31	ug/kg	25	SW 8260B	03/05/2001	1145
p-Isopropyltoluene	<31	ug/kg	25	SW 8260B	03/05/2001	1145
Methylene Chloride	<62	ug/kg	50	SW 8260B	03/05/2001	1145
Methyl-t-butyl ether	<31	ug/kg	25	SW 8260B	03/05/2001	1145
-Naphthalene	<31	ug/kg	25	SW 8260B	03/05/2001	1145
n-Propylbenzene	<31	ug/kg	25	SW 8260B	03/05/2001	1145
Styrene	<31	ug/kg	25	SW 8260B	03/05/2001	1145
1,1,1,2-Tetrachloroethane	<31	ug/kg	25	SW 8260B	03/05/2001	1145
-1,1,2,2-Tetrachloroethane	<31	ug/kg	25	SW 8260B	03/05/2001	1145
Tetrachloroethene	<31	ug/kg	25	SW 8260B	03/05/2001	1145
Toluene	<31	ug/kg	25	SW 8260B	03/05/2001	1145
1,2,3-Trichlorobenzene	<31	ug/kg	25	SW 8260B	03/05/2001	1145
-1,2,4-Trichlorobenzene	<31	ug/kg	25	SW 8260B	03/05/2001	1145
1,1,1-Trichloroethane	<31	ug/kg	25	SW 8260B	03/05/2001	1145
1,1,2-Trichloroethane	<31	ug/kg	25	SW 8260B	03/05/2001	1145
Trichloroethene	<31	ug/kg	25	SW 8260B	03/05/2001	1145
Trichlorofluoromethane	<31	ug/kg	25	SW 8260B	03/05/2001	1145

## ANALYTICAL REPORT

Mr. Dave Trainor  
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03/19/2001  
 Job No: 01.01188  
 Sample No: 428100  
 Account No: 21400  
 Page 11 of 118

JOB DESCRIPTION: 05644-097 NSP/XCEL Ashland  
 PROJECT DESCRIPTION: Sediment Analysis  
 SAMPLE DESCRIPTION: SD-3 4-6 05644-097 NSP/XCEL  
 Ashland, WI  
 Rec'd on ice

Date/Time Taken: 03/01/2001 09:55      Date Received: 03/02/2001

Parameter	Results	Units	Reporting Limit	Method	Date Analyzed	Prep/Run Batch
1,2,3-Trichloropropane	<31	ug/kg	25	SW 8260B	03/05/2001	1145
1,2,4-Trimethylbenzene	<31	ug/kg	25	SW 8260B	03/05/2001	1145
1,3,5-Trimethylbenzene	<31	ug/kg	25	SW 8260B	03/05/2001	1145
Vinyl Chloride	<31	ug/kg	25	SW 8260B	03/05/2001	1145
Xylenes, Total	<44	ug/kg	35	SW 8260B	03/05/2001	1145
Surr: Dibromofluoromethane	108.8	%	85-113	SW 8260B	03/05/2001	1145
Surr: Toluene-d8	101.4	%	93-105	SW 8260B	03/05/2001	1145
Surr: Bromofluorobenzene	100.2	%	85-111	SW 8260B	03/05/2001	1145



## ANALYTICAL REPORT

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 Suite I  
 Madison, WI 53718

03/19/2001  
 Job No: 01.01188  
 Sample No: 428101  
 Account No: 21400  
 Page 12 of 118

JOB DESCRIPTION: 05644-097 NSP/XCEL Ashland  
 PROJECT DESCRIPTION: Sediment Analysis  
 SAMPLE DESCRIPTION: SD-3 6-8 05644-097 NSP/XCEL  
 Ashland, WI  
 Rec'd on ice

Date/Time Taken: 03/01/2001 10:00      Date Received: 03/02/2001

Parameter	Results	Units	Reporting Limit	Method	Date Analyzed	Prep/Run Batch
Solids, Total	82.0	%	n/a	SW 5030	03/07/2001	3575
BASE/NEUTRALS-8270 NONAQUEOUS						
Acenaphthene	<0.40	mg/kg	0.33	SW 8270B	03/08/2001	326
Acenaphthylene	<0.40	mg/kg	0.33	SW 8270B	03/08/2001	326
Anthracene	<0.40	mg/kg	0.33	SW 8270B	03/08/2001	326
Benzo(a)anthracene	<0.40	mg/kg	0.33	SW 8270B	03/08/2001	326
Benzo(b)fluoranthene	<0.40	mg/kg	0.33	SW 8270B	03/08/2001	326
Benzo(k)fluoranthene	<0.40	mg/kg	0.33	SW 8270B	03/08/2001	326
Benzo(g,h,i)perylene	<0.40	mg/kg	0.33	SW 8270B	03/08/2001	326
Benzo(a)pyrene	<0.40	mg/kg	0.33	SW 8270B	03/08/2001	326
Chrysene	<0.40	mg/kg	0.33	SW 8270B	03/08/2001	326
Dibenzo(a,h)anthracene	<0.40	mg/kg	0.33	SW 8270B	03/08/2001	326
Fluoranthene	<0.40	mg/kg	0.33	SW 8270B	03/08/2001	326
Fluorene	<0.40	mg/kg	0.33	SW 8270B	03/08/2001	326
Indeno(1,2,3-cd)pyrene	<0.40	mg/kg	0.33	SW 8270B	03/08/2001	326
2-Methylnaphthalene	<0.40	mg/kg	0.33	SW 8270B	03/08/2001	326
Naphthalene	<0.40	mg/kg	0.33	SW 8270B	03/08/2001	326
Phenanthrene	<0.40	mg/kg	0.33	SW 8270B	03/08/2001	326
Pyrene	<0.40	mg/kg	0.33	SW 8270B	03/08/2001	326
Surr: Nitrobenzene-d5	71.1	%	n/a	SW 8270B	03/08/2001	326
Surr: 2-Fluorobiphenyl	63.0	%	n/a	SW 8270B	03/08/2001	326
Surr: Terphenyl-d14	90.3	%	n/a	SW 8270B	03/08/2001	326
VOC - METHANOL - 8260B						
Benzene	<30	ug/kg	25	SW 8260B	03/05/2001	1145
Bromobenzene	<30	ug/kg	25	SW 8260B	03/05/2001	1145
Bromochloromethane	<30	ug/kg	25	SW 8260B	03/05/2001	1145
Bromodichloromethane	<30	ug/kg	25	SW 8260B	03/05/2001	1145
Bromoform	<30	ug/kg	25	SW 8260B	03/05/2001	1145
Bromomethane	<122	ug/kg	100	SW 8260B	03/05/2001	1145
n-Butylbenzene	<30	ug/kg	25	SW 8260B	03/05/2001	1145
sec-Butylbenzene	<30	ug/kg	25	SW 8260B	03/05/2001	1145
tert-Butylbenzene	<30	ug/kg	25	SW 8260B	03/05/2001	1145
Carbon Tetrachloride	<30	ug/kg	25	SW 8260B	03/05/2001	1145
Chlorobenzene	<30	ug/kg	25	SW 8260B	03/05/2001	1145
Chlorodibromomethane	<30	ug/kg	25	SW 8260B	03/05/2001	1145
Chloroethane	<43	ug/kg	35	SW 8260B	03/05/2001	1145
Chloroform	<30	ug/kg	25	SW 8260B	03/05/2001	1145
Chloromethane	<61	ug/kg	50	SW 8260B	03/05/2001	1145
2-Chlorotoluene	<30	ug/kg	25	SW 8260B	03/05/2001	1145

## ANALYTICAL REPORT

Mr. Dave Trainor  
 URS/DAMES & MOORE  
 5250 East Terrace Drive  
 Suite I  
 Madison, WI 53718

03/19/2001  
 Job No: 01.01188  
 Sample No: 428101  
 Account No: 21400  
 Page 13 of 118

JOB DESCRIPTION: 05644-097 NSP/XCEL Ashland  
 PROJECT DESCRIPTION: Sediment Analysis  
 SAMPLE DESCRIPTION: SD-3 6-8 05644-097 NSP/XCEL  
 Ashland, WI  
 Rec'd on ice

Date/Time Taken: 03/01/2001 10:00      Date Received: 03/02/2001

Parameter	Results	Units	Reporting Limit	Method	Date Analyzed	Prep/Run Batch
-4-Chlorotoluene	<30	ug/kg	25	SW 8260B	03/05/2001	1145
1,2-Dibromo-3-Chloropropane	<61	ug/kg	50	SW 8260B	03/05/2001	1145
1,2-Dibromoethane (EDB)	<30	ug/kg	25	SW 8260B	03/05/2001	1145
Dibromomethane	<30	ug/kg	25	SW 8260B	03/05/2001	1145
-1,2-Dichlorobenzene	<30	ug/kg	25	SW 8260B	03/05/2001	1145
1,3-Dichlorobenzene	<30	ug/kg	25	SW 8260B	03/05/2001	1145
1,4-Dichlorobenzene	<30	ug/kg	25	SW 8260B	03/05/2001	1145
Dichlorodifluoromethane	<30	ug/kg	25	SW 8260B	03/05/2001	1145
1,1-Dichloroethane	<30	ug/kg	25	SW 8260B	03/05/2001	1145
1,2-Dichloroethane	<30	ug/kg	25	SW 8260B	03/05/2001	1145
1,1-Dichloroethene	<30	ug/kg	25	SW 8260B	03/05/2001	1145
cis-1,2-Dichloroethene	<30	ug/kg	25	SW 8260B	03/05/2001	1145
trans-1,2-Dichloroethene	<30	ug/kg	25	SW 8260B	03/05/2001	1145
1,2-Dichloropropane	<30	ug/kg	25	SW 8260B	03/05/2001	1145
1,3-Dichloropropane	<30	ug/kg	25	SW 8260B	03/05/2001	1145
-2,2-Dichloropropane	<30	ug/kg	25	SW 8260B	03/05/2001	1145
1,1-Dichloropropene	<30	ug/kg	25	SW 8260B	03/05/2001	1145
cis-1,3-Dichloropropene	<30	ug/kg	25	SW 8260B	03/05/2001	1145
trans-1,3-Dichloropropene	<30	ug/kg	25	SW 8260B	03/05/2001	1145
-Di-isopropyl ether	<30	ug/kg	25	SW 8260B	03/05/2001	1145
Ethylbenzene	<30	ug/kg	25	SW 8260B	03/05/2001	1145
Hexachlorobutadiene	<43	ug/kg	35	SW 8260B	03/05/2001	1145
Isopropylbenzene	<30	ug/kg	25	SW 8260B	03/05/2001	1145
p-Isopropyltoluene	<30	ug/kg	25	SW 8260B	03/05/2001	1145
Methylene Chloride	L 159	ug/kg	50	SW 8260B	03/05/2001	1145
Methyl-t-butyl ether	<30	ug/kg	25	SW 8260B	03/05/2001	1145
-Naphthalene	<30	ug/kg	25	SW 8260B	03/05/2001	1145
n-Propylbenzene	<30	ug/kg	25	SW 8260B	03/05/2001	1145
Styrene	<30	ug/kg	25	SW 8260B	03/05/2001	1145
1,1,1,2-Tetrachloroethane	<30	ug/kg	25	SW 8260B	03/05/2001	1145
-1,1,2,2-Tetrachloroethane	<30	ug/kg	25	SW 8260B	03/05/2001	1145
Tetrachloroethene	<30	ug/kg	25	SW 8260B	03/05/2001	1145
Toluene	<30	ug/kg	25	SW 8260B	03/05/2001	1145
1,2,3-Trichlorobenzene	<30	ug/kg	25	SW 8260B	03/05/2001	1145
-1,2,4-Trichlorobenzene	<30	ug/kg	25	SW 8260B	03/05/2001	1145
1,1,1-Trichloroethane	<30	ug/kg	25	SW 8260B	03/05/2001	1145
1,1,2-Trichloroethane	<30	ug/kg	25	SW 8260B	03/05/2001	1145
-Trichloroethene	<30	ug/kg	25	SW 8260B	03/05/2001	1145
Trichlorofluoromethane	<30	ug/kg	25	SW 8260B	03/05/2001	1145

## ANALYTICAL REPORT

Mr. Dave Trainor  
 URS/DAMES & MOORE  
 5250 East Terrace Drive  
 Suite I  
 Madison, WI 53718

03/19/2001  
 Job No: 01.01188  
 Sample No: 428101  
 Account No: 21400  
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JOB DESCRIPTION: 05644-097 NSP/XCEL Ashland  
 PROJECT DESCRIPTION: Sediment Analysis  
 SAMPLE DESCRIPTION: SD-3 6-8 05644-097 NSP/XCEL  
 Ashland, WI  
 Rec'd on ice

Date/Time Taken: 03/01/2001 10:00

Date Received: 03/02/2001

Parameter	Results	Units	Reporting Limit	Method	Date Analyzed	Prep/Run Batch
1,2,3-Trichloropropane	<30	ug/kg	25	SW 8260B	03/05/2001	1145
1,2,4-Trimethylbenzene	<30	ug/kg	25	SW 8260B	03/05/2001	1145
1,3,5-Trimethylbenzene	<30	ug/kg	25	SW 8260B	03/05/2001	1145
Vinyl Chloride	<30	ug/kg	25	SW 8260B	03/05/2001	1145
Xylenes, Total	<43	ug/kg	35	SW 8260B	03/05/2001	1145
Surr: Dibromofluoromethane	105.8	%	85-113	SW 8260B	03/05/2001	1145
Surr: Toluene-d8	100.8	%	93-105	SW 8260B	03/05/2001	1145
Surr: Bromofluorobenzene	101.0	%	85-111	SW 8260B	03/05/2001	1145

## ANALYTICAL REPORT

Mr. Dave Trainor  
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 Madison, WI 53718

03/19/2001  
 Job No: 01.01188  
 Sample No: 428102  
 Account No: 21400  
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JOB DESCRIPTION: 05644-097 NSP/XCEL Ashland  
 PROJECT DESCRIPTION: Sediment Analysis  
 SAMPLE DESCRIPTION: SD-11 0-2 05644-097 NSP/XCEL  
 Ashland, WI  
 Rec'd on ice

Date/Time Taken: 03/01/2001 10:30

Date Received: 03/02/2001

Parameter	Results	Units	Reporting Limit	Method	Date Analyzed	Prep/Run Batch
Solids, Total	70.8	%	n/a	SW 5030	03/07/2001	3575
BASE/NEUTRALS-8270 NONAQUEOUS						
Acenaphthene	1.1	mg/kg	0.33	SW 8270B	03/08/2001	326
Acenaphthylene	0.49	mg/kg	0.33	SW 8270B	03/08/2001	326
Anthracene	1.1	mg/kg	0.33	SW 8270B	03/08/2001	326
Benzo(a)anthracene	1.1	mg/kg	0.33	SW 8270B	03/08/2001	326
Benzo(b)fluoranthene	0.61	mg/kg	0.33	SW 8270B	03/08/2001	326
Benzo(k)fluoranthene	0.73	mg/kg	0.33	SW 8270B	03/08/2001	326
Benzo(g,h,i)perylene	0.58	mg/kg	0.33	SW 8270B	03/08/2001	326
Benzo(a)pyrene	1.2	mg/kg	0.33	SW 8270B	03/08/2001	326
Chrysene	1.2	mg/kg	0.33	SW 8270B	03/08/2001	326
Dibenzo(a,h)anthracene	<0.47	mg/kg	0.33	SW 8270B	03/08/2001	326
Fluoranthene	2.3	mg/kg	0.33	SW 8270B	03/08/2001	326
Fluorene	<0.47	mg/kg	0.33	SW 8270B	03/08/2001	326
Indeno(1,2,3-cd)pyrene	0.56	mg/kg	0.33	SW 8270B	03/08/2001	326
2-Methylnaphthalene	1.4	mg/kg	0.33	SW 8270B	03/08/2001	326
Naphthalene	1.6	mg/kg	0.33	SW 8270B	03/08/2001	326
Phenanthrene	3.4	mg/kg	0.33	SW 8270B	03/08/2001	326
Pyrene	4.0	mg/kg	0.33	SW 8270B	03/08/2001	326
Surr: Nitrobenzene-d5	112.0	%	n/a	SW 8270B	03/08/2001	326
Surr: 2-Fluorobiphenyl	101.0	%	n/a	SW 8270B	03/08/2001	326
Surr: Terphenyl-d14	88.4	%	n/a	SW 8270B	03/08/2001	326
VOC - METHANOL - 8260B						
Benzene	<35	ug/kg	25	SW 8260B	03/05/2001	1145
Bromobenzene	<35	ug/kg	25	SW 8260B	03/05/2001	1145
Bromochloromethane	<35	ug/kg	25	SW 8260B	03/05/2001	1145
Bromodichloromethane	<35	ug/kg	25	SW 8260B	03/05/2001	1145
Bromoform	<35	ug/kg	25	SW 8260B	03/05/2001	1145
Bromomethane	<141	ug/kg	100	SW 8260B	03/05/2001	1145
n-Butylbenzene	<35	ug/kg	25	SW 8260B	03/05/2001	1145
sec-Butylbenzene	<35	ug/kg	25	SW 8260B	03/05/2001	1145
tert-Butylbenzene	<35	ug/kg	25	SW 8260B	03/05/2001	1145
Carbon Tetrachloride	<35	ug/kg	25	SW 8260B	03/05/2001	1145
Chlorobenzene	<35	ug/kg	25	SW 8260B	03/05/2001	1145
Chlorodibromomethane	<35	ug/kg	25	SW 8260B	03/05/2001	1145
Chloroethane	<49	ug/kg	35	SW 8260B	03/05/2001	1145
Chloroform	<35	ug/kg	25	SW 8260B	03/05/2001	1145
Chloromethane	<71	ug/kg	50	SW 8260B	03/05/2001	1145
2-Chlorotoluene	<35	ug/kg	25	SW 8260B	03/05/2001	1145

## ANALYTICAL REPORT

Mr. Dave Trainor  
 URS/DAMES & MOORE  
 5250 East Terrace Drive  
 Suite I  
 Madison, WI 53718

03/19/2001  
 Job No: 01.01188  
 Sample No: 428102  
 Account No: 21400  
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JOB DESCRIPTION: 05644-097 NSP/XCEL Ashland  
 PROJECT DESCRIPTION: Sediment Analysis  
 SAMPLE DESCRIPTION: SD-11 0-2 05644-097 NSP/XCEL  
 Ashland, WI  
 Rec'd on ice

Date/Time Taken: 03/01/2001 10:30

Date Received: 03/02/2001

Parameter	Results	Units	Reporting Limit	Method	Date Analyzed	Prep/Run Batch
4-Chlorotoluene	<35	ug/kg	25	SW 8260B	03/05/2001	1145
1,2-Dibromo-3-Chloropropane	<71	ug/kg	50	SW 8260B	03/05/2001	1145
1,2-Dibromoethane (EDB)	<35	ug/kg	25	SW 8260B	03/05/2001	1145
Dibromomethane	<35	ug/kg	25	SW 8260B	03/05/2001	1145
1,2-Dichlorobenzene	<35	ug/kg	25	SW 8260B	03/05/2001	1145
1,3-Dichlorobenzene	<35	ug/kg	25	SW 8260B	03/05/2001	1145
1,4-Dichlorobenzene	<35	ug/kg	25	SW 8260B	03/05/2001	1145
Dichlorodifluoromethane	<35	ug/kg	25	SW 8260B	03/05/2001	1145
1,1-Dichloroethane	<35	ug/kg	25	SW 8260B	03/05/2001	1145
1,2-Dichloroethane	<35	ug/kg	25	SW 8260B	03/05/2001	1145
1,1-Dichloroethene	<35	ug/kg	25	SW 8260B	03/05/2001	1145
cis-1,2-Dichloroethene	<35	ug/kg	25	SW 8260B	03/05/2001	1145
trans-1,2-Dichloroethene	<35	ug/kg	25	SW 8260B	03/05/2001	1145
1,2-Dichloropropane	<35	ug/kg	25	SW 8260B	03/05/2001	1145
1,3-Dichloropropane	<35	ug/kg	25	SW 8260B	03/05/2001	1145
2,2-Dichloropropane	<35	ug/kg	25	SW 8260B	03/05/2001	1145
1,1-Dichloropropene	<35	ug/kg	25	SW 8260B	03/05/2001	1145
cis-1,3-Dichloropropene	<35	ug/kg	25	SW 8260B	03/05/2001	1145
trans-1,3-Dichloropropene	<35	ug/kg	25	SW 8260B	03/05/2001	1145
Di-isopropyl ether	<35	ug/kg	25	SW 8260B	03/05/2001	1145
Ethylbenzene	<35	ug/kg	25	SW 8260B	03/05/2001	1145
Hexachlorobutadiene	<49	ug/kg	35	SW 8260B	03/05/2001	1145
Isopropylbenzene	<35	ug/kg	25	SW 8260B	03/05/2001	1145
p-Isopropyltoluene	282	ug/kg	25	SW 8260B	03/05/2001	1145
Methylene Chloride	<71	ug/kg	50	SW 8260B	03/05/2001	1145
Methyl-t-butyl ether	<35	ug/kg	25	SW 8260B	03/05/2001	1145
Naphthalene	<35	ug/kg	25	SW 8260B	03/05/2001	1145
n-Propylbenzene	<35	ug/kg	25	SW 8260B	03/05/2001	1145
Styrene	<35	ug/kg	25	SW 8260B	03/05/2001	1145
1,1,1,2-Tetrachloroethane	<35	ug/kg	25	SW 8260B	03/05/2001	1145
1,1,2,2-Tetrachloroethane	<35	ug/kg	25	SW 8260B	03/05/2001	1145
Tetrachloroethene	<35	ug/kg	25	SW 8260B	03/05/2001	1145
Toluene	75	ug/kg	25	SW 8260B	03/05/2001	1145
1,2,3-Trichlorobenzene	<35	ug/kg	25	SW 8260B	03/05/2001	1145
1,2,4-Trichlorobenzene	<35	ug/kg	25	SW 8260B	03/05/2001	1145
1,1,1-Trichloroethane	<35	ug/kg	25	SW 8260B	03/05/2001	1145
1,1,2-Trichloroethane	<35	ug/kg	25	SW 8260B	03/05/2001	1145
Trichloroethene	<35	ug/kg	25	SW 8260B	03/05/2001	1145
Trichlorofluoromethane	<35	ug/kg	25	SW 8260B	03/05/2001	1145

## ANALYTICAL REPORT

Mr. Dave Trainor  
 URS/DAMES & MOORE  
 5250 East Terrace Drive  
 Suite I  
 Madison, WI 53718

03/19/2001  
 Job No: 01.01188  
 Sample No: 428102  
 Account No: 21400  
 Page 17 of 118

JOB DESCRIPTION: 05644-097 NSP/XCEL Ashland  
 PROJECT DESCRIPTION: Sediment Analysis  
 SAMPLE DESCRIPTION: SD-11 0-2 05644-097 NSP/XCEL  
 Ashland, WI  
 Rec'd on ice

Date/Time Taken: 03/01/2001 10:30

Date Received: 03/02/2001

Parameter	Results	Units	Reporting Limit	Method	Date Analyzed	Prep/Run Batch
-1,2,3-Trichloropropane	<35	ug/kg	25	SW 8260B	03/05/2001	1145
1,2,4-Trimethylbenzene	<35	ug/kg	25	SW 8260B	03/05/2001	1145
1,3,5-Trimethylbenzene	<35	ug/kg	25	SW 8260B	03/05/2001	1145
Vinyl Chloride	<35	ug/kg	25	SW 8260B	03/05/2001	1145
-Xylenes, Total	<49	ug/kg	35	SW 8260B	03/05/2001	1145
Surr: Dibromofluoromethane	106.0	%	85-113	SW 8260B	03/05/2001	1145
Surr: Toluene-d8	100.2	%	93-105	SW 8260B	03/05/2001	1145
Surr: Bromofluorobenzene	101.0	%	85-111	SW 8260B	03/05/2001	1145

## ANALYTICAL REPORT

Mr. Dave Trainor  
 URS/DAMES & MOORE  
 5250 East Terrace Drive  
 Suite I  
 Madison, WI 53718

03/19/2001  
 Job No: 01.01188  
 Sample No: 428103  
 Account No: 21400  
 Page 18 of 118

JOB DESCRIPTION: 05644-097 NSP/XCEL Ashland  
 PROJECT DESCRIPTION: Sediment Analysis  
 SAMPLE DESCRIPTION: SD-11 2-4 05644-097 NSP/XCEL  
 Ashland, WI  
 Rec'd on ice

Date/Time Taken: 03/01/2001 10:35

Date Received: 03/02/2001

Parameter	Results	Units	Reporting Limit	Method	Date Analyzed	Prep/Run Batch
Solids, Total	77.2	%	n/a	SW 5030	03/07/2001	3575
BASE/NEUTRALS-8270 NONAQUEOUS						
Acenaphthene	<0.43	mg/kg	0.33	SW 8270B	03/09/2001	327
Acenaphthylene	<0.43	mg/kg	0.33	SW 8270B	03/09/2001	327
Anthracene	<0.43	mg/kg	0.33	SW 8270B	03/09/2001	327
Benzo (a) anthracene	<0.43	mg/kg	0.33	SW 8270B	03/09/2001	327
Benzo (b) fluoranthene	<0.43	mg/kg	0.33	SW 8270B	03/09/2001	327
Benzo (k) fluoranthene	<0.43	mg/kg	0.33	SW 8270B	03/09/2001	327
Benzo (g, h, i) perylene	<0.43	mg/kg	0.33	SW 8270B	03/09/2001	327
Benzo (a) pyrene	<0.43	mg/kg	0.33	SW 8270B	03/09/2001	327
Chrysene	<0.43	mg/kg	0.33	SW 8270B	03/09/2001	327
Dibenzo (a, h) anthracene	<0.43	mg/kg	0.33	SW 8270B	03/09/2001	327
Fluoranthene	<0.43	mg/kg	0.33	SW 8270B	03/09/2001	327
Fluorene	<0.43	mg/kg	0.33	SW 8270B	03/09/2001	327
Indeno (1, 2, 3-cd) pyrene	<0.43	mg/kg	0.33	SW 8270B	03/09/2001	327
2-Methylnaphthalene	<0.43	mg/kg	0.33	SW 8270B	03/09/2001	327
Naphthalene	<0.43	mg/kg	0.33	SW 8270B	03/09/2001	327
Phenanthrene	<0.43	mg/kg	0.33	SW 8270B	03/09/2001	327
Pyrene	<0.43	mg/kg	0.33	SW 8270B	03/09/2001	327
Surr: Nitrobenzene-d5	87.1	%	n/a	SW 8270B	03/09/2001	327
Surr: 2-Fluorobiphenyl	82.4	%	n/a	SW 8270B	03/09/2001	327
Surr: Terphenyl-d14	99.7	%	n/a	SW 8270B	03/09/2001	327
VOC - METHANOL - 8260B						
Benzene	<32	ug/kg	25	SW 8260B	03/05/2001	1145
Bromobenzene	<32	ug/kg	25	SW 8260B	03/05/2001	1145
Bromochloromethane	<32	ug/kg	25	SW 8260B	03/05/2001	1145
Bromodichloromethane	<32	ug/kg	25	SW 8260B	03/05/2001	1145
Bromoform	<32	ug/kg	25	SW 8260B	03/05/2001	1145
Bromomethane	<130	ug/kg	100	SW 8260B	03/05/2001	1145
n-Butylbenzene	<32	ug/kg	25	SW 8260B	03/05/2001	1145
sec-Butylbenzene	<32	ug/kg	25	SW 8260B	03/05/2001	1145
tert-Butylbenzene	<32	ug/kg	25	SW 8260B	03/05/2001	1145
Carbon Tetrachloride	<32	ug/kg	25	SW 8260B	03/05/2001	1145
Chlorobenzene	<32	ug/kg	25	SW 8260B	03/05/2001	1145
Chlorodibromomethane	<32	ug/kg	25	SW 8260B	03/05/2001	1145
Chloroethane	<45	ug/kg	35	SW 8260B	03/05/2001	1145
Chloroform	<32	ug/kg	25	SW 8260B	03/05/2001	1145
Chloromethane	<65	ug/kg	50	SW 8260B	03/05/2001	1145
2-Chlorotoluene	<32	ug/kg	25	SW 8260B	03/05/2001	1145

## ANALYTICAL REPORT

Mr. Dave Trainor  
 URS/DAMES & MOORE  
 5250 East Terrace Drive  
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03/19/2001  
 Job No: 01.01188  
 Sample No: 428103  
 Account No: 21400  
 Page 19 of 118

JOB DESCRIPTION: 05644-097 NSP/XCEL Ashland  
 PROJECT DESCRIPTION: Sediment Analysis  
 SAMPLE DESCRIPTION: SD-11 2-4 05644-097 NSP/XCEL  
 Ashland, WI  
 Rec'd on ice

Date/Time Taken: 03/01/2001 10:35

Date Received: 03/02/2001

Parameter	Results	Units	Reporting Limit	Method	Date Analyzed	Prep/Run Batch
-4-Chlorotoluene	<32	ug/kg	25	SW 8260B	03/05/2001	1145
1,2-Dibromo-3-Chloropropane	<65	ug/kg	50	SW 8260B	03/05/2001	1145
1,2-Dibromoethane (EDB)	<32	ug/kg	25	SW 8260B	03/05/2001	1145
Dibromomethane	<32	ug/kg	25	SW 8260B	03/05/2001	1145
-1,2-Dichlorobenzene	<32	ug/kg	25	SW 8260B	03/05/2001	1145
1,3-Dichlorobenzene	<32	ug/kg	25	SW 8260B	03/05/2001	1145
1,4-Dichlorobenzene	<32	ug/kg	25	SW 8260B	03/05/2001	1145
-Dichlorodifluoromethane	<32	ug/kg	25	SW 8260B	03/05/2001	1145
1,1-Dichloroethane	<32	ug/kg	25	SW 8260B	03/05/2001	1145
1,2-Dichloroethane	<32	ug/kg	25	SW 8260B	03/05/2001	1145
1,1-Dichloroethene	<32	ug/kg	25	SW 8260B	03/05/2001	1145
-cis-1,2-Dichloroethene	<32	ug/kg	25	SW 8260B	03/05/2001	1145
trans-1,2-Dichloroethene	<32	ug/kg	25	SW 8260B	03/05/2001	1145
1,2-Dichloropropane	<32	ug/kg	25	SW 8260B	03/05/2001	1145
1,3-Dichloropropane	<32	ug/kg	25	SW 8260B	03/05/2001	1145
-2,2-Dichloropropane	<32	ug/kg	25	SW 8260B	03/05/2001	1145
1,1-Dichloropropene	<32	ug/kg	25	SW 8260B	03/05/2001	1145
cis-1,3-Dichloropropene	<32	ug/kg	25	SW 8260B	03/05/2001	1145
trans-1,3-Dichloropropene	<32	ug/kg	25	SW 8260B	03/05/2001	1145
-Di-isopropyl ether	<32	ug/kg	25	SW 8260B	03/05/2001	1145
Ethylbenzene	<32	ug/kg	25	SW 8260B	03/05/2001	1145
Hexachlorobutadiene	<45	ug/kg	35	SW 8260B	03/05/2001	1145
-Isopropylbenzene	<32	ug/kg	25	SW 8260B	03/05/2001	1145
p-Isopropyltoluene	142	ug/kg	25	SW 8260B	03/05/2001	1145
Methylene Chloride	<65	ug/kg	50	SW 8260B	03/05/2001	1145
Methyl-t-butyl ether	<32	ug/kg	25	SW 8260B	03/05/2001	1145
-Naphthalene	<32	ug/kg	25	SW 8260B	03/05/2001	1145
n-Propylbenzene	<32	ug/kg	25	SW 8260B	03/05/2001	1145
Styrene	<32	ug/kg	25	SW 8260B	03/05/2001	1145
1,1,1,2-Tetrachloroethane	<32	ug/kg	25	SW 8260B	03/05/2001	1145
-1,1,2,2-Tetrachloroethane	<32	ug/kg	25	SW 8260B	03/05/2001	1145
Tetrachloroethene	<32	ug/kg	25	SW 8260B	03/05/2001	1145
Toluene	36	ug/kg	25	SW 8260B	03/05/2001	1145
1,2,3-Trichlorobenzene	<32	ug/kg	25	SW 8260B	03/05/2001	1145
1,2,4-Trichlorobenzene	<32	ug/kg	25	SW 8260B	03/05/2001	1145
1,1,1-Trichloroethane	<32	ug/kg	25	SW 8260B	03/05/2001	1145
1,1,2-Trichloroethane	<32	ug/kg	25	SW 8260B	03/05/2001	1145
-Trichloroethene	<32	ug/kg	25	SW 8260B	03/05/2001	1145
Trichlorofluoromethane	<32	ug/kg	25	SW 8260B	03/05/2001	1145



## ANALYTICAL REPORT

Mr. Dave Trainor  
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 5250 East Terrace Drive  
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03/19/2001  
 Job No: 01.01188  
 Sample No: 428103  
 Account No: 21400  
 Page 20 of 118

JOB DESCRIPTION: 05644-097 NSP/XCEL Ashland  
 PROJECT DESCRIPTION: Sediment Analysis  
 SAMPLE DESCRIPTION: SD-11 2-4 05644-097 NSP/XCEL  
 Ashland, WI  
 Rec'd on ice

Date/Time Taken: 03/01/2001 10:35      Date Received: 03/02/2001

Parameter	Results	Units	Reporting Limit	Method	Date Analyzed	Prep/Run Batch
-1,2,3-Trichloropropane	<32	ug/kg	25	SW 8260B	03/05/2001	1145
1,2,4-Trimethylbenzene	<32	ug/kg	25	SW 8260B	03/05/2001	1145
1,3,5-Trimethylbenzene	<32	ug/kg	25	SW 8260B	03/05/2001	1145
Vinyl Chloride	<32	ug/kg	25	SW 8260B	03/05/2001	1145
-Xylenes, Total	<45	ug/kg	35	SW 8260B	03/05/2001	1145
Surr: Dibromofluoromethane	101.2	%	85-113	SW 8260B	03/05/2001	1145
Surr: Toluene-d8	102.2	%	93-105	SW 8260B	03/05/2001	1145
Surr: Bromofluorobenzene	103.4	%	85-111	SW 8260B	03/05/2001	1145

## ANALYTICAL REPORT

Mr. Dave Trainor  
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03/19/2001  
 Job No: 01.01188  
 Sample No: 428104  
 Account No: 21400  
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JOB DESCRIPTION: 05644-097 NSP/XCEL Ashland  
 PROJECT DESCRIPTION: Sediment Analysis  
 SAMPLE DESCRIPTION: SD-11 4-6 05644-097 NSP/XCEL  
 Ashland, WI  
 Rec'd on ice

Date/Time Taken: 03/01/2001 10:40

Date Received: 03/02/2001

Parameter	Results	Units	Reporting Limit	Method	Date Analyzed	Prep/Run Batch
Solids, Total	80.5	%	n/a	SW 5030	03/07/2001	3575
BASE/NEUTRALS-8270 NONAQUEOUS						
Acenaphthene	<0.41	mg/kg	0.33	SW 8270B	03/09/2001	327
Acenaphthylene	<0.41	mg/kg	0.33	SW 8270B	03/09/2001	327
Anthracene	<0.41	mg/kg	0.33	SW 8270B	03/09/2001	327
Benzo(a)anthracene	<0.41	mg/kg	0.33	SW 8270B	03/09/2001	327
Benzo(b)fluoranthene	<0.41	mg/kg	0.33	SW 8270B	03/09/2001	327
Benzo(k)fluoranthene	<0.41	mg/kg	0.33	SW 8270B	03/09/2001	327
Benzo(g,h,i)perylene	<0.41	mg/kg	0.33	SW 8270B	03/09/2001	327
Benzo(a)pyrene	<0.41	mg/kg	0.33	SW 8270B	03/09/2001	327
Chrysene	<0.41	mg/kg	0.33	SW 8270B	03/09/2001	327
Dibenzo(a,h)anthracene	<0.41	mg/kg	0.33	SW 8270B	03/09/2001	327
Fluoranthene	<0.41	mg/kg	0.33	SW 8270B	03/09/2001	327
Fluorene	<0.41	mg/kg	0.33	SW 8270B	03/09/2001	327
Indeno(1,2,3-cd)pyrene	<0.41	mg/kg	0.33	SW 8270B	03/09/2001	327
2-Methylnaphthalene	<0.41	mg/kg	0.33	SW 8270B	03/09/2001	327
Naphthalene	<0.41	mg/kg	0.33	SW 8270B	03/09/2001	327
Phenanthrene	<0.41	mg/kg	0.33	SW 8270B	03/09/2001	327
Pyrene	<0.41	mg/kg	0.33	SW 8270B	03/09/2001	327
Surr: Nitrobenzene-d5	81.7	%	n/a	SW 8270B	03/09/2001	327
Surr: 2-Fluorobiphenyl	76.8	%	n/a	SW 8270B	03/09/2001	327
Surr: Terphenyl-d14	96.6	%	n/a	SW 8270B	03/09/2001	327
VOC - METHANOL - 8260B						
Benzene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Bromobenzene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Bromochloromethane	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Bromodichloromethane	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Bromoform	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Bromomethane	<124	ug/kg	100	SW 8260B	03/06/2001	1148
n-Butylbenzene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
sec-Butylbenzene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
tert-Butylbenzene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Carbon Tetrachloride	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Chlorobenzene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Chlorodibromomethane	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Chloroethane	<43	ug/kg	35	SW 8260B	03/06/2001	1148
Chloroform	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Chloromethane	<62	ug/kg	50	SW 8260B	03/06/2001	1148
2-Chlorotoluene	<31	ug/kg	25	SW 8260B	03/06/2001	1148

## ANALYTICAL REPORT

Mr. Dave Trainor  
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 5250 East Terrace Drive  
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03/19/2001  
 Job No: 01.01188  
 Sample No: 428104  
 Account No: 21400  
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JOB DESCRIPTION: 05644-097 NSP/XCEL Ashland  
 PROJECT DESCRIPTION: Sediment Analysis  
 SAMPLE DESCRIPTION: SD-11 4-6 05644-097 NSP/XCEL  
 Ashland, WI  
 Rec'd on ice

Date/Time Taken: 03/01/2001 10:40

Date Received: 03/02/2001

Parameter	Results	Units	Reporting Limit	Method	Date Analyzed	Prep/Run Batch
4-Chlorotoluene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
1,2-Dibromo-3-Chloropropane	<62	ug/kg	50	SW 8260B	03/06/2001	1148
1,2-Dibromoethane (EDB)	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Dibromomethane	<31	ug/kg	25	SW 8260B	03/06/2001	1148
1,2-Dichlorobenzene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
1,3-Dichlorobenzene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
1,4-Dichlorobenzene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Dichlorodifluoromethane	<31	ug/kg	25	SW 8260B	03/06/2001	1148
1,1-Dichloroethane	<31	ug/kg	25	SW 8260B	03/06/2001	1148
1,2-Dichloroethane	<31	ug/kg	25	SW 8260B	03/06/2001	1148
1,1-Dichloroethene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
cis-1,2-Dichloroethene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
trans-1,2-Dichloroethene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
1,2-Dichloropropane	<31	ug/kg	25	SW 8260B	03/06/2001	1148
1,3-Dichloropropane	<31	ug/kg	25	SW 8260B	03/06/2001	1148
2,2-Dichloropropane	<31	ug/kg	25	SW 8260B	03/06/2001	1148
1,1-Dichloropropene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
cis-1,3-Dichloropropene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
trans-1,3-Dichloropropene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Di-isopropyl ether	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Ethylbenzene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Hexachlorobutadiene	<43	ug/kg	35	SW 8260B	03/06/2001	1148
Isopropylbenzene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
p-Isopropyltoluene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Methylene Chloride	L 71	ug/kg	50	SW 8260B	03/06/2001	1148
Methyl-t-butyl ether	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Naphthalene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
n-Propylbenzene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Styrene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
1,1,1,2-Tetrachloroethane	<31	ug/kg	25	SW 8260B	03/06/2001	1148
1,1,2,2-Tetrachloroethane	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Tetrachloroethene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Toluene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
1,2,3-Trichlorobenzene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
1,2,4-Trichlorobenzene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
1,1,1-Trichloroethane	<31	ug/kg	25	SW 8260B	03/06/2001	1148
1,1,2-Trichloroethane	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Trichloroethene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Trichlorofluoromethane	<31	ug/kg	25	SW 8260B	03/06/2001	1148

## ANALYTICAL REPORT

Mr. Dave Trainor  
 URS/DAMES & MOORE  
 5250 East Terrace Drive  
 Suite I  
 Madison, WI 53718

03/19/2001  
 Job No: 01.01188  
 Sample No: 428104  
 Account No: 21400  
 Page 23 of 118

JOB DESCRIPTION: 05644-097 NSP/XCEL Ashland  
 PROJECT DESCRIPTION: Sediment Analysis  
 SAMPLE DESCRIPTION: SD-11 4-6 05644-097 NSP/XCEL  
 Ashland, WI  
 Rec'd on ice

Date/Time Taken: 03/01/2001 10:40

Date Received: 03/02/2001

Parameter	Results	Units	Reporting Limit	Method	Date Analyzed	Prep/Run Batch
1,2,3-Trichloropropane	<31	ug/kg	25	SW 8260B	03/06/2001	1148
1,2,4-Trimethylbenzene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
1,3,5-Trimethylbenzene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Vinyl Chloride	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Xylenes, Total	<43	ug/kg	35	SW 8260B	03/06/2001	1148
Surr: Dibromofluoromethane	109.0	%	85-113	SW 8260B	03/06/2001	1148
Surr: Toluene-d8	102.4	%	93-105	SW 8260B	03/06/2001	1148
Surr: Bromofluorobenzene	101.2	%	85-111	SW 8260B	03/06/2001	1148

## ANALYTICAL REPORT

Mr. Dave Trainor  
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 5250 East Terrace Drive  
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03/19/2001  
 Job No: 01.01188  
 Sample No: 428105  
 Account No: 21400  
 Page 24 of 118

JOB DESCRIPTION: 05644-097 NSP/XCEL Ashland  
 PROJECT DESCRIPTION: Sediment Analysis  
 SAMPLE DESCRIPTION: SD-11 6-8 05644-097 NSP/XCEL  
 Ashland, WI  
 Rec'd on ice

Date/Time Taken: 03/01/2001 10:45

Date Received: 03/02/2001

Parameter	Results	Units	Reporting Limit	Method	Date Analyzed	Prep/Run Batch
Solids, Total	84.0	%	n/a	SW 5030	03/07/2001	3575
BASE/NEUTRALS-8270 NONAQUEOUS						
Acenaphthene	<0.39	mg/kg	0.33	SW 8270B	03/09/2001	327
Acenaphthylene	<0.39	mg/kg	0.33	SW 8270B	03/09/2001	327
Anthracene	<0.39	mg/kg	0.33	SW 8270B	03/09/2001	327
Benzo(a)anthracene	<0.39	mg/kg	0.33	SW 8270B	03/09/2001	327
Benzo(b)fluoranthene	<0.39	mg/kg	0.33	SW 8270B	03/09/2001	327
Benzo(k)fluoranthene	<0.39	mg/kg	0.33	SW 8270B	03/09/2001	327
Benzo(g,h,i)perylene	<0.39	mg/kg	0.33	SW 8270B	03/09/2001	327
Benzo(a)pyrene	<0.39	mg/kg	0.33	SW 8270B	03/09/2001	327
Chrysene	<0.39	mg/kg	0.33	SW 8270B	03/09/2001	327
Dibenzo(a,h)anthracene	<0.39	mg/kg	0.33	SW 8270B	03/09/2001	327
Fluoranthene	<0.39	mg/kg	0.33	SW 8270B	03/09/2001	327
Fluorene	<0.39	mg/kg	0.33	SW 8270B	03/09/2001	327
Indeno(1,2,3-cd)pyrene	<0.39	mg/kg	0.33	SW 8270B	03/09/2001	327
2-Methylnaphthalene	<0.39	mg/kg	0.33	SW 8270B	03/09/2001	327
Naphthalene	<0.39	mg/kg	0.33	SW 8270B	03/09/2001	327
Phenanthrene	<0.39	mg/kg	0.33	SW 8270B	03/09/2001	327
Pyrene	<0.39	mg/kg	0.33	SW 8270B	03/09/2001	327
Surr: Nitrobenzene-d5	77.4	%	n/a	SW 8270B	03/09/2001	327
Surr: 2-Fluorobiphenyl	71.8	%	n/a	SW 8270B	03/09/2001	327
Surr: Terphenyl-d14	99.9	%	n/a	SW 8270B	03/09/2001	327
VOC - METHANOL - 8260B						
Benzene	<30	ug/kg	25	SW 8260B	03/07/2001	1149
Bromobenzene	<30	ug/kg	25	SW 8260B	03/07/2001	1149
Bromochloromethane	<30	ug/kg	25	SW 8260B	03/07/2001	1149
Bromodichloromethane	<30	ug/kg	25	SW 8260B	03/07/2001	1149
Bromoform	<30	ug/kg	25	SW 8260B	03/07/2001	1149
Bromomethane	<119	ug/kg	100	SW 8260B	03/07/2001	1149
n-Butylbenzene	<30	ug/kg	25	SW 8260B	03/07/2001	1149
sec-Butylbenzene	<30	ug/kg	25	SW 8260B	03/07/2001	1149
tert-Butylbenzene	<30	ug/kg	25	SW 8260B	03/07/2001	1149
Carbon Tetrachloride	<30	ug/kg	25	SW 8260B	03/07/2001	1149
Chlorobenzene	<30	ug/kg	25	SW 8260B	03/07/2001	1149
Chlorodibromomethane	<30	ug/kg	25	SW 8260B	03/07/2001	1149
Chloroethane	<42	ug/kg	35	SW 8260B	03/07/2001	1149
Chloroform	<30	ug/kg	25	SW 8260B	03/07/2001	1149
Chloromethane	<60	ug/kg	50	SW 8260B	03/07/2001	1149
2-Chlorotoluene	<30	ug/kg	25	SW 8260B	03/07/2001	1149

## ANALYTICAL REPORT

Mr. Dave Trainor  
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 5250 East Terrace Drive  
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03/19/2001  
 Job No: 01.01188  
 Sample No: 428105  
 Account No: 21400  
 Page 25 of 118

JOB DESCRIPTION: 05644-097 NSP/XCEL Ashland  
 PROJECT DESCRIPTION: Sediment Analysis  
 SAMPLE DESCRIPTION: SD-11 6-8 05644-097 NSP/XCEL  
 Ashland, WI  
 Rec'd on ice

Date/Time Taken: 03/01/2001 10:45

Date Received: 03/02/2001

Parameter	Results	Units	Reporting Limit	Method	Date Analyzed	Prep/Run Batch
4-Chlorotoluene	<30	ug/kg	25	SW 8260B	03/07/2001	1149
1,2-Dibromo-3-Chloropropane	<60	ug/kg	50	SW 8260B	03/07/2001	1149
1,2-Dibromoethane (EDB)	<30	ug/kg	25	SW 8260B	03/07/2001	1149
Dibromomethane	<30	ug/kg	25	SW 8260B	03/07/2001	1149
1,2-Dichlorobenzene	<30	ug/kg	25	SW 8260B	03/07/2001	1149
1,3-Dichlorobenzene	<30	ug/kg	25	SW 8260B	03/07/2001	1149
1,4-Dichlorobenzene	<30	ug/kg	25	SW 8260B	03/07/2001	1149
Dichlorodifluoromethane	<30	ug/kg	25	SW 8260B	03/07/2001	1149
1,1-Dichloroethane	<30	ug/kg	25	SW 8260B	03/07/2001	1149
1,2-Dichloroethane	<30	ug/kg	25	SW 8260B	03/07/2001	1149
1,1-Dichloroethene	<30	ug/kg	25	SW 8260B	03/07/2001	1149
cis-1,2-Dichloroethene	<30	ug/kg	25	SW 8260B	03/07/2001	1149
trans-1,2-Dichloroethene	<30	ug/kg	25	SW 8260B	03/07/2001	1149
1,2-Dichloropropane	<30	ug/kg	25	SW 8260B	03/07/2001	1149
1,3-Dichloropropane	<30	ug/kg	25	SW 8260B	03/07/2001	1149
2,2-Dichloropropane	<30	ug/kg	25	SW 8260B	03/07/2001	1149
1,1-Dichloropropene	<30	ug/kg	25	SW 8260B	03/07/2001	1149
cis-1,3-Dichloropropene	<30	ug/kg	25	SW 8260B	03/07/2001	1149
trans-1,3-Dichloropropene	<30	ug/kg	25	SW 8260B	03/07/2001	1149
Di-isopropyl ether	<30	ug/kg	25	SW 8260B	03/07/2001	1149
Ethylbenzene	<30	ug/kg	25	SW 8260B	03/07/2001	1149
Hexachlorobutadiene	<42	ug/kg	35	SW 8260B	03/07/2001	1149
Isopropylbenzene	<30	ug/kg	25	SW 8260B	03/07/2001	1149
p-Isopropyltoluene	<30	ug/kg	25	SW 8260B	03/07/2001	1149
Methylene Chloride	L 190	ug/kg	50	SW 8260B	03/07/2001	1149
Methyl-t-butyl ether	<30	ug/kg	25	SW 8260B	03/07/2001	1149
Naphthalene	<30	ug/kg	25	SW 8260B	03/08/2001	1152
n-Propylbenzene	<30	ug/kg	25	SW 8260B	03/07/2001	1149
Styrene	<30	ug/kg	25	SW 8260B	03/07/2001	1149
1,1,1,2-Tetrachloroethane	<30	ug/kg	25	SW 8260B	03/07/2001	1149
1,1,1,2,2-Tetrachloroethane	<30	ug/kg	25	SW 8260B	03/07/2001	1149
Tetrachloroethene	<30	ug/kg	25	SW 8260B	03/07/2001	1149
Toluene	<30	ug/kg	25	SW 8260B	03/07/2001	1149
1,2,3-Trichlorobenzene	<30	ug/kg	25	SW 8260B	03/07/2001	1149
1,2,4-Trichlorobenzene	<30	ug/kg	25	SW 8260B	03/07/2001	1149
1,1,1-Trichloroethane	<30	ug/kg	25	SW 8260B	03/07/2001	1149
1,1,2-Trichloroethane	<30	ug/kg	25	SW 8260B	03/07/2001	1149
Trichloroethene	<30	ug/kg	25	SW 8260B	03/07/2001	1149
Trichlorofluoromethane	<30	ug/kg	25	SW 8260B	03/07/2001	1149

## ANALYTICAL REPORT

Mr. Dave Trainor  
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 5250 East Terrace Drive  
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03/19/2001  
 Job No: 01.01188  
 Sample No: 428105  
 Account No: 21400  
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JOB DESCRIPTION: 05644-097 NSP/XCEL Ashland  
 PROJECT DESCRIPTION: Sediment Analysis  
 SAMPLE DESCRIPTION: SD-11 6-8 05644-097 NSP/XCEL  
 Ashland, WI  
 Rec'd on ice

Date/Time Taken: 03/01/2001 10:45

Date Received: 03/02/2001

Parameter	Results	Units	Reporting Limit	Method	Date Analyzed	Prep/Run Batch
1,2,3-Trichloropropane	<30	ug/kg	25	SW 8260B	03/07/2001	1149
1,2,4-Trimethylbenzene	<30	ug/kg	25	SW 8260B	03/07/2001	1149
1,3,5-Trimethylbenzene	<30	ug/kg	25	SW 8260B	03/07/2001	1149
Vinyl Chloride	<30	ug/kg	25	SW 8260B	03/07/2001	1149
Xylenes, Total	<42	ug/kg	35	SW 8260B	03/07/2001	1149
Surr: Dibromofluoromethane	99.8	%	85-113	SW 8260B	03/07/2001	1149
Surr: Toluene-d8	99.4	%	93-105	SW 8260B	03/07/2001	1149
Surr: Bromofluorobenzene	98.0	%	85-111	SW 8260B	03/07/2001	1149

## ANALYTICAL REPORT

Mr. Dave Trainor  
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03/19/2001  
 Job No: 01.01188  
 Sample No: 428106  
 Account No: 21400  
 Page 27 of 118

JOB DESCRIPTION: 05644-097 NSP/XCEL Ashland  
 PROJECT DESCRIPTION: Sediment Analysis  
 SAMPLE DESCRIPTION: SD-23 6-8 05644-097 NSP/XCEL  
 Ashland, WI  
 Rec'd on ice

Date/Time Taken: 03/01/2001 14:40

Date Received: 03/02/2001

Parameter	Results	Units	Reporting Limit	Method	Date Analyzed	Prep/Run Batch
Solids, Total	85.3	%	n/a	SW 5030	03/09/2001	3578
BASE/NEUTRALS-8270 NONAQUEOUS						
Acenaphthene	<0.39	mg/kg	0.33	SW 8270B	03/09/2001	327
Acenaphthylene	<0.39	mg/kg	0.33	SW 8270B	03/09/2001	327
Anthracene	<0.39	mg/kg	0.33	SW 8270B	03/09/2001	327
Benzo (a) anthracene	<0.39	mg/kg	0.33	SW 8270B	03/09/2001	327
Benzo (b) fluoranthene	<0.39	mg/kg	0.33	SW 8270B	03/09/2001	327
Benzo (k) fluoranthene	<0.39	mg/kg	0.33	SW 8270B	03/09/2001	327
Benzo (g, h, i) perylene	<0.39	mg/kg	0.33	SW 8270B	03/09/2001	327
Benzo (a) pyrene	<0.39	mg/kg	0.33	SW 8270B	03/09/2001	327
Chrysene	<0.39	mg/kg	0.33	SW 8270B	03/09/2001	327
Dibenzo (a, h) anthracene	<0.39	mg/kg	0.33	SW 8270B	03/09/2001	327
Fluoranthene	<0.39	mg/kg	0.33	SW 8270B	03/09/2001	327
Fluorene	<0.39	mg/kg	0.33	SW 8270B	03/09/2001	327
Indeno (1, 2, 3-cd) pyrene	<0.39	mg/kg	0.33	SW 8270B	03/09/2001	327
2-Methylnaphthalene	<0.39	mg/kg	0.33	SW 8270B	03/09/2001	327
Naphthalene	<0.39	mg/kg	0.33	SW 8270B	03/09/2001	327
Phenanthrene	<0.39	mg/kg	0.33	SW 8270B	03/09/2001	327
Pyrene	<0.39	mg/kg	0.33	SW 8270B	03/09/2001	327
Surr: Nitrobenzene-d5	84.7	%	n/a	SW 8270B	03/09/2001	327
Surr: 2-Fluorobiphenyl	80.7	%	n/a	SW 8270B	03/09/2001	327
Surr: Terphenyl-d14	102.0	%	n/a	SW 8270B	03/09/2001	327
VOC - METHANOL - 8260B						
Benzene	<29	ug/kg	25	SW 8260B	03/07/2001	1149
Bromobenzene	<29	ug/kg	25	SW 8260B	03/07/2001	1149
Bromochloromethane	<29	ug/kg	25	SW 8260B	03/07/2001	1149
Bromodichloromethane	<29	ug/kg	25	SW 8260B	03/07/2001	1149
Bromoform	<29	ug/kg	25	SW 8260B	03/07/2001	1149
Bromomethane	<117	ug/kg	100	SW 8260B	03/07/2001	1149
n-Butylbenzene	<29	ug/kg	25	SW 8260B	03/07/2001	1149
sec-Butylbenzene	<29	ug/kg	25	SW 8260B	03/07/2001	1149
tert-Butylbenzene	<29	ug/kg	25	SW 8260B	03/07/2001	1149
Carbon Tetrachloride	<29	ug/kg	25	SW 8260B	03/07/2001	1149
Chlorobenzene	<29	ug/kg	25	SW 8260B	03/07/2001	1149
Chlorodibromomethane	<29	ug/kg	25	SW 8260B	03/07/2001	1149
Chloroethane	<41	ug/kg	35	SW 8260B	03/07/2001	1149
Chloroform	<29	ug/kg	25	SW 8260B	03/07/2001	1149
Chloromethane	<59	ug/kg	50	SW 8260B	03/07/2001	1149
2-Chlorotoluene	<29	ug/kg	25	SW 8260B	03/07/2001	1149



## ANALYTICAL REPORT

Mr. Dave Trainor  
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03/19/2001  
 Job No: 01.01188  
 Sample No: 428106  
 Account No: 21400  
 Page 28 of 118

JOB DESCRIPTION: 05644-097 NSP/XCEL Ashland  
 PROJECT DESCRIPTION: Sediment Analysis  
 SAMPLE DESCRIPTION: SD-23 6-8 05644-097 NSP/XCEL  
 Ashland, WI  
 Rec'd on ice

Date/Time Taken: 03/01/2001 14:40

Date Received: 03/02/2001

Parameter	Results	Units	Reporting Limit	Method	Date Analyzed	Prep/Run Batch
4-Chlorotoluene	<29	ug/kg	25	SW 8260B	03/07/2001	1149
1,2-Dibromo-3-Chloropropane	<59	ug/kg	50	SW 8260B	03/07/2001	1149
1,2-Dibromoethane (EDB)	<29	ug/kg	25	SW 8260B	03/07/2001	1149
Dibromomethane	<29	ug/kg	25	SW 8260B	03/07/2001	1149
1,2-Dichlorobenzene	<29	ug/kg	25	SW 8260B	03/07/2001	1149
1,3-Dichlorobenzene	<29	ug/kg	25	SW 8260B	03/07/2001	1149
1,4-Dichlorobenzene	<29	ug/kg	25	SW 8260B	03/07/2001	1149
Dichlorodifluoromethane	<29	ug/kg	25	SW 8260B	03/07/2001	1149
1,1-Dichloroethane	<29	ug/kg	25	SW 8260B	03/07/2001	1149
1,2-Dichloroethane	<29	ug/kg	25	SW 8260B	03/07/2001	1149
1,1-Dichloroethene	<29	ug/kg	25	SW 8260B	03/07/2001	1149
cis-1,2-Dichloroethene	<29	ug/kg	25	SW 8260B	03/07/2001	1149
trans-1,2-Dichloroethene	<29	ug/kg	25	SW 8260B	03/07/2001	1149
1,2-Dichloropropane	<29	ug/kg	25	SW 8260B	03/07/2001	1149
1,3-Dichloropropane	<29	ug/kg	25	SW 8260B	03/07/2001	1149
2,2-Dichloropropane	<29	ug/kg	25	SW 8260B	03/07/2001	1149
1,1-Dichloropropene	<29	ug/kg	25	SW 8260B	03/07/2001	1149
cis-1,3-Dichloropropene	<29	ug/kg	25	SW 8260B	03/07/2001	1149
trans-1,3-Dichloropropene	<29	ug/kg	25	SW 8260B	03/07/2001	1149
Di-isopropyl ether	<29	ug/kg	25	SW 8260B	03/07/2001	1149
Ethylbenzene	<29	ug/kg	25	SW 8260B	03/07/2001	1149
Hexachlorobutadiene	<41	ug/kg	35	SW 8260B	03/07/2001	1149
Isopropylbenzene	<29	ug/kg	25	SW 8260B	03/07/2001	1149
p-Isopropyltoluene	<29	ug/kg	25	SW 8260B	03/07/2001	1149
Methylene Chloride	L 74	ug/kg	50	SW 8260B	03/07/2001	1149
Methyl-t-butyl ether	<29	ug/kg	25	SW 8260B	03/07/2001	1149
Naphthalene	<29	ug/kg	25	SW 8260B	03/07/2001	1149
n-Propylbenzene	<29	ug/kg	25	SW 8260B	03/07/2001	1149
Styrene	<29	ug/kg	25	SW 8260B	03/07/2001	1149
1,1,1,2-Tetrachloroethane	<29	ug/kg	25	SW 8260B	03/07/2001	1149
1,1,2,2-Tetrachloroethane	<29	ug/kg	25	SW 8260B	03/07/2001	1149
Tetrachloroethene	<29	ug/kg	25	SW 8260B	03/07/2001	1149
Toluene	<29	ug/kg	25	SW 8260B	03/07/2001	1149
1,2,3-Trichlorobenzene	<29	ug/kg	25	SW 8260B	03/07/2001	1149
1,2,4-Trichlorobenzene	<29	ug/kg	25	SW 8260B	03/07/2001	1149
1,1,1-Trichloroethane	<29	ug/kg	25	SW 8260B	03/07/2001	1149
1,1,2-Trichloroethane	<29	ug/kg	25	SW 8260B	03/07/2001	1149
Trichloroethene	<29	ug/kg	25	SW 8260B	03/07/2001	1149
Trichlorofluoromethane	<29	ug/kg	25	SW 8260B	03/07/2001	1149

## ANALYTICAL REPORT

Mr. Dave Trainor  
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 5250 East Terrace Drive  
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03/19/2001  
 Job No: 01.01188  
 Sample No: 428106  
 Account No: 21400  
 Page 29 of 118

JOB DESCRIPTION: 05644-097 NSP/XCEL Ashland  
 PROJECT DESCRIPTION: Sediment Analysis  
 SAMPLE DESCRIPTION: SD-23 6-8 05644-097 NSP/XCEL  
 Ashland, WI  
 Rec'd on ice

Date/Time Taken: 03/01/2001 14:40                      Date Received: 03/02/2001

Parameter	Results	Units	Reporting Limit	Method	Date Analyzed	Prep/Run Batch
1,2,3-Trichloropropane	<29	ug/kg	25	SW 8260B	03/07/2001	1149
1,2,4-Trimethylbenzene	<29	ug/kg	25	SW 8260B	03/07/2001	1149
1,3,5-Trimethylbenzene	<29	ug/kg	25	SW 8260B	03/07/2001	1149
Vinyl Chloride	<29	ug/kg	25	SW 8260B	03/07/2001	1149
Xylenes, Total	<41	ug/kg	35	SW 8260B	03/07/2001	1149
Surr: Dibromofluoromethane	98.4	%	85-113	SW 8260B	03/07/2001	1149
Surr: Toluene-d8	97.4	%	93-105	SW 8260B	03/07/2001	1149
Surr: Bromofluorobenzene	97.2	%	85-111	SW 8260B	03/07/2001	1149

## ANALYTICAL REPORT

Mr. Dave Trainor  
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03/19/2001  
 Job No: 01.01188  
 Sample No: 428107  
 Account No: 21400  
 Page 30 of 118

JOB DESCRIPTION: 05644-097 NSP/XCEL Ashland  
 PROJECT DESCRIPTION: Sediment Analysis  
 SAMPLE DESCRIPTION: SD-21 0-2 05644-097 NSP/XCEL  
 Ashland, WI  
 Rec'd on ice

Date/Time Taken: 03/01/2001 11:40

Date Received: 03/02/2001

Parameter	Results	Units	Reporting Limit	Method	Date Analyzed	Prep/Run Batch
Solids, Total	46.4	%	n/a	SW 5030	03/09/2001	3578
BASE/NEUTRALS-8270 NONAQUEOUS						
Acenaphthene	120	mg/kg	0.33	SW 8270B	03/09/2001	327
Acenaphthylene	<11	mg/kg	0.33	SW 8270B	03/09/2001	327
Anthracene	43	mg/kg	0.33	SW 8270B	03/09/2001	327
Benzo (a) anthracene	28	mg/kg	0.33	SW 8270B	03/09/2001	327
Benzo (b) fluoranthene	11	mg/kg	0.33	SW 8270B	03/09/2001	327
Benzo (k) fluoranthene	15	mg/kg	0.33	SW 8270B	03/09/2001	327
Benzo (g, h, i) perylene	13	mg/kg	0.33	SW 8270B	03/09/2001	327
Benzo (a) pyrene	30	mg/kg	0.33	SW 8270B	03/09/2001	327
Chrysene	28	mg/kg	0.33	SW 8270B	03/09/2001	327
Dibenzo (a, h) anthracene	<11	mg/kg	0.33	SW 8270B	03/09/2001	327
Fluoranthene	67	mg/kg	0.33	SW 8270B	03/09/2001	327
Fluorene	52	mg/kg	0.33	SW 8270B	03/09/2001	327
Indeno (1, 2, 3-cd) pyrene	13	mg/kg	0.33	SW 8270B	03/09/2001	327
2-Methylnaphthalene	180	mg/kg	0.33	SW 8270B	03/09/2001	327
Naphthalene	220	mg/kg	0.33	SW 8270B	03/09/2001	327
Phenanthrene	150	mg/kg	0.33	SW 8270B	03/09/2001	327
Pyrene	99	mg/kg	0.33	SW 8270B	03/09/2001	327
Surr: Nitrobenzene-d5	M, C 135.0	%	n/a	SW 8270B	03/09/2001	327
Surr: 2-Fluorobiphenyl	M, C 141.0	%	n/a	SW 8270B	03/09/2001	327
Surr: Terphenyl-d14	M, C 136.0	%	n/a	SW 8270B	03/09/2001	327
VOC - METHANOL - 8260B						
Benzene	<54	ug/kg	25	SW 8260B	03/06/2001	1148
Bromobenzene	<54	ug/kg	25	SW 8260B	03/06/2001	1148
Bromochloromethane	<54	ug/kg	25	SW 8260B	03/06/2001	1148
Bromodichloromethane	<54	ug/kg	25	SW 8260B	03/06/2001	1148
Bromoform	<54	ug/kg	25	SW 8260B	03/06/2001	1148
Bromomethane	<216	ug/kg	100	SW 8260B	03/06/2001	1148
n-Butylbenzene	<54	ug/kg	25	SW 8260B	03/06/2001	1148
sec-Butylbenzene	<54	ug/kg	25	SW 8260B	03/06/2001	1148
tert-Butylbenzene	<54	ug/kg	25	SW 8260B	03/06/2001	1148
Carbon Tetrachloride	<54	ug/kg	25	SW 8260B	03/06/2001	1148
Chlorobenzene	<54	ug/kg	25	SW 8260B	03/06/2001	1148
Chlorodibromomethane	<54	ug/kg	25	SW 8260B	03/06/2001	1148
Chloroethane	<75	ug/kg	35	SW 8260B	03/06/2001	1148
Chloroform	<54	ug/kg	25	SW 8260B	03/06/2001	1148
Chloromethane	<110	ug/kg	50	SW 8260B	03/06/2001	1148
2-Chlorotoluene	<54	ug/kg	25	SW 8260B	03/06/2001	1148

## ANALYTICAL REPORT

Mr. Dave Trainor  
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 5250 East Terrace Drive  
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03/19/2001  
 Job No: 01.01188  
 Sample No: 428107  
 Account No: 21400  
 Page 31 of 118

JOB DESCRIPTION: 05644-097 NSP/XCEL Ashland  
 PROJECT DESCRIPTION: Sediment Analysis  
 SAMPLE DESCRIPTION: SD-21 0-2 05644-097 NSP/XCEL  
 Ashland, WI  
 Rec'd on ice

Date/Time Taken: 03/01/2001 11:40

Date Received: 03/02/2001

Parameter	Results	Units	Reporting Limit	Method	Date Analyzed	Prep/Run Batch
4-Chlorotoluene	<54	ug/kg	25	SW 8260B	03/06/2001	1148
1,2-Dibromo-3-Chloropropane	<110	ug/kg	50	SW 8260B	03/06/2001	1148
1,2-Dibromoethane (EDB)	<54	ug/kg	25	SW 8260B	03/06/2001	1148
Dibromomethane	<54	ug/kg	25	SW 8260B	03/06/2001	1148
1,2-Dichlorobenzene	<54	ug/kg	25	SW 8260B	03/06/2001	1148
1,3-Dichlorobenzene	<54	ug/kg	25	SW 8260B	03/06/2001	1148
1,4-Dichlorobenzene	<54	ug/kg	25	SW 8260B	03/06/2001	1148
Dichlorodifluoromethane	<54	ug/kg	25	SW 8260B	03/06/2001	1148
1,1-Dichloroethane	<54	ug/kg	25	SW 8260B	03/06/2001	1148
1,2-Dichloroethane	<54	ug/kg	25	SW 8260B	03/06/2001	1148
1,1-Dichloroethene	<54	ug/kg	25	SW 8260B	03/06/2001	1148
cis-1,2-Dichloroethene	<54	ug/kg	25	SW 8260B	03/06/2001	1148
trans-1,2-Dichloroethene	<54	ug/kg	25	SW 8260B	03/06/2001	1148
1,2-Dichloropropane	<54	ug/kg	25	SW 8260B	03/06/2001	1148
1,3-Dichloropropane	<54	ug/kg	25	SW 8260B	03/06/2001	1148
2,2-Dichloropropane	<54	ug/kg	25	SW 8260B	03/06/2001	1148
1,1-Dichloropropene	<54	ug/kg	25	SW 8260B	03/06/2001	1148
cis-1,3-Dichloropropene	<54	ug/kg	25	SW 8260B	03/06/2001	1148
trans-1,3-Dichloropropene	<54	ug/kg	25	SW 8260B	03/06/2001	1148
Di-isopropyl ether	<54	ug/kg	25	SW 8260B	03/06/2001	1148
Ethylbenzene	2,070	ug/kg	25	SW 8260B	03/06/2001	1148
Hexachlorobutadiene	<75	ug/kg	35	SW 8260B	03/06/2001	1148
Isopropylbenzene	668	ug/kg	25	SW 8260B	03/06/2001	1148
p-Isopropyltoluene	1,440	ug/kg	25	SW 8260B	03/06/2001	1148
Methylene Chloride	<110	ug/kg	50	SW 8260B	03/06/2001	1148
Methyl-t-butyl ether	<54	ug/kg	25	SW 8260B	03/06/2001	1148
Naphthalene	92,700	ug/kg	25	SW 8260B	03/07/2001	1150
n-Propylbenzene	190	ug/kg	25	SW 8260B	03/06/2001	1148
Styrene	<54	ug/kg	25	SW 8260B	03/06/2001	1148
1,1,1,2-Tetrachloroethane	<54	ug/kg	25	SW 8260B	03/06/2001	1148
1,1,2,2-Tetrachloroethane	<54	ug/kg	25	SW 8260B	03/06/2001	1148
Tetrachloroethene	<54	ug/kg	25	SW 8260B	03/06/2001	1148
Toluene	80	ug/kg	25	SW 8260B	03/06/2001	1148
1,2,3-Trichlorobenzene	<54	ug/kg	25	SW 8260B	03/06/2001	1148
1,2,4-Trichlorobenzene	<54	ug/kg	25	SW 8260B	03/06/2001	1148
1,1,1-Trichloroethane	<54	ug/kg	25	SW 8260B	03/06/2001	1148
1,1,2-Trichloroethane	<54	ug/kg	25	SW 8260B	03/06/2001	1148
Trichloroethene	<54	ug/kg	25	SW 8260B	03/06/2001	1148
Trichlorofluoromethane	<54	ug/kg	25	SW 8260B	03/06/2001	1148

## ANALYTICAL REPORT

Mr. Dave Trainor  
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03/19/2001  
 Job No: 01.01188  
 Sample No: 428107  
 Account No: 21400  
 Page 32 of 118

JOB DESCRIPTION: 05644-097 NSP/XCEL Ashland  
 PROJECT DESCRIPTION: Sediment Analysis  
 SAMPLE DESCRIPTION: SD-21 0-2 05644-097 NSP/XCEL  
 Ashland, WI  
 Rec'd on ice

Date/Time Taken: 03/01/2001 11:40                      Date Received: 03/02/2001

Parameter	Results	Units	Reporting Limit	Method	Date Analyzed	Prep/Run Batch
1,2,3-Trichloropropane	<54	ug/kg	25	SW 8260B	03/06/2001	1148
1,2,4-Trimethylbenzene	3,660	ug/kg	25	SW 8260B	03/06/2001	1148
1,3,5-Trimethylbenzene	884	ug/kg	25	SW 8260B	03/06/2001	1148
-Vinyl Chloride	<54	ug/kg	25	SW 8260B	03/06/2001	1148
Xylenes, Total	2,590	ug/kg	35	SW 8260B	03/06/2001	1148
Surr: Dibromofluoromethane	106.8	%	85-113	SW 8260B	03/06/2001	1148
Surr: Toluene-d8	97.8	%	93-105	SW 8260B	03/06/2001	1148
-Surr: Bromofluorobenzene	105.4	%	85-111	SW 8260B	03/06/2001	1148

## ANALYTICAL REPORT

Mr. Dave Trainor  
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 5250 East Terrace Drive  
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 Madison, WI 53718

03/19/2001  
 Job No: 01.01188  
 Sample No: 428108  
 Account No: 21400  
 Page 33 of 118

JOB DESCRIPTION: 05644-097 NSP/XCEL Ashland  
 PROJECT DESCRIPTION: Sediment Analysis  
 SAMPLE DESCRIPTION: SD-21 2-4 05644-097 NSP/XCEL  
 Ashland, WI  
 Rec'd on ice

Date/Time Taken: 03/01/2001 11:45

Date Received: 03/02/2001

Parameter	Results	Units	Reporting Limit	Method	Date Analyzed	Prep/Run Batch
Solids, Total	83.0	%	n/a	SW 5030	03/09/2001	3578
BASE/NEUTRALS-8270 NONAQUEOUS						
Acenaphthene	40	mg/kg	0.33	SW 8270B	03/09/2001	327
Acenaphthylene	3.5	mg/kg	0.33	SW 8270B	03/09/2001	327
Anthracene	14	mg/kg	0.33	SW 8270B	03/09/2001	327
Benzo(a)anthracene	10	mg/kg	0.33	SW 8270B	03/09/2001	327
Benzo(b)fluoranthene	4.2	mg/kg	0.33	SW 8270B	03/09/2001	327
Benzo(k)fluoranthene	5.4	mg/kg	0.33	SW 8270B	03/09/2001	327
Benzo(g,h,i)perylene	4.9	mg/kg	0.33	SW 8270B	03/09/2001	327
Benzo(a)pyrene	11	mg/kg	0.33	SW 8270B	03/09/2001	327
Chrysene	9.5	mg/kg	0.33	SW 8270B	03/09/2001	327
Dibenzo(a,h)anthracene	<1.9	mg/kg	0.33	SW 8270B	03/09/2001	327
Fluoranthene	22	mg/kg	0.33	SW 8270B	03/09/2001	327
Fluorene	19	mg/kg	0.33	SW 8270B	03/09/2001	327
Indeno(1,2,3-cd)pyrene	4.3	mg/kg	0.33	SW 8270B	03/09/2001	327
2-Methylnaphthalene	58	mg/kg	0.33	SW 8270B	03/09/2001	327
Naphthalene	61	mg/kg	0.33	SW 8270B	03/09/2001	327
Phenanthrene	58	mg/kg	0.33	SW 8270B	03/09/2001	327
Pyrene	33	mg/kg	0.33	SW 8270B	03/09/2001	327
Surr: Nitrobenzene-d5	96.8	%	n/a	SW 8270B	03/09/2001	327
Surr: 2-Fluorobiphenyl	107.0	%	n/a	SW 8270B	03/09/2001	327
Surr: Terphenyl-d14	121.0	%	n/a	SW 8270B	03/09/2001	327
VOC - METHANOL - 8260B						
Benzene	<30	ug/kg	25	SW 8260B	03/06/2001	1148
Bromobenzene	<30	ug/kg	25	SW 8260B	03/06/2001	1148
Bromochloromethane	<30	ug/kg	25	SW 8260B	03/06/2001	1148
Bromodichloromethane	<30	ug/kg	25	SW 8260B	03/06/2001	1148
Bromoform	<30	ug/kg	25	SW 8260B	03/06/2001	1148
Bromomethane	<120	ug/kg	100	SW 8260B	03/06/2001	1148
n-Butylbenzene	<30	ug/kg	25	SW 8260B	03/06/2001	1148
sec-Butylbenzene	36	ug/kg	25	SW 8260B	03/06/2001	1148
tert-Butylbenzene	<30	ug/kg	25	SW 8260B	03/06/2001	1148
Carbon Tetrachloride	<30	ug/kg	25	SW 8260B	03/06/2001	1148
Chlorobenzene	<30	ug/kg	25	SW 8260B	03/06/2001	1148
Chlorodibromomethane	<30	ug/kg	25	SW 8260B	03/06/2001	1148
Chloroethane	<42	ug/kg	35	SW 8260B	03/06/2001	1148
Chloroform	<30	ug/kg	25	SW 8260B	03/06/2001	1148
Chloromethane	<60	ug/kg	50	SW 8260B	03/06/2001	1148
o-Chlorotoluene	<30	ug/kg	25	SW 8260B	03/06/2001	1148

## ANALYTICAL REPORT

Mr. Dave Trainor  
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 5250 East Terrace Drive  
 Suite I  
 Madison, WI 53718

03/19/2001  
 Job No: 01.01188  
 Sample No: 428108  
 Account No: 21400  
 Page 34 of 118

JOB DESCRIPTION: 05644-097 NSP/XCEL Ashland  
 PROJECT DESCRIPTION: Sediment Analysis  
 SAMPLE DESCRIPTION: SD-21 2-4 05644-097 NSP/XCEL  
 Ashland, WI  
 Rec'd on ice

Date/Time Taken: 03/01/2001 11:45

Date Received: 03/02/2001

Parameter	Results	Units	Reporting Limit	Method	Date Analyzed	Prep/Run Batch
4-Chlorotoluene	<30	ug/kg	25	SW 8260B	03/06/2001	1148
1,2-Dibromo-3-Chloropropane	<60	ug/kg	50	SW 8260B	03/06/2001	1148
1,2-Dibromoethane (EDB)	<30	ug/kg	25	SW 8260B	03/06/2001	1148
Dibromomethane	<30	ug/kg	25	SW 8260B	03/06/2001	1148
1,2-Dichlorobenzene	<30	ug/kg	25	SW 8260B	03/06/2001	1148
1,3-Dichlorobenzene	<30	ug/kg	25	SW 8260B	03/06/2001	1148
1,4-Dichlorobenzene	<30	ug/kg	25	SW 8260B	03/06/2001	1148
Dichlorodifluoromethane	<30	ug/kg	25	SW 8260B	03/06/2001	1148
1,1-Dichloroethane	<30	ug/kg	25	SW 8260B	03/06/2001	1148
1,2-Dichloroethane	<30	ug/kg	25	SW 8260B	03/06/2001	1148
1,1-Dichloroethene	<30	ug/kg	25	SW 8260B	03/06/2001	1148
cis-1,2-Dichloroethene	<30	ug/kg	25	SW 8260B	03/06/2001	1148
trans-1,2-Dichloroethene	<30	ug/kg	25	SW 8260B	03/06/2001	1148
1,2-Dichloropropane	<30	ug/kg	25	SW 8260B	03/06/2001	1148
1,3-Dichloropropane	<30	ug/kg	25	SW 8260B	03/06/2001	1148
2,2-Dichloropropane	<30	ug/kg	25	SW 8260B	03/06/2001	1148
1,1-Dichloropropene	<30	ug/kg	25	SW 8260B	03/06/2001	1148
cis-1,3-Dichloropropene	<30	ug/kg	25	SW 8260B	03/06/2001	1148
trans-1,3-Dichloropropene	<30	ug/kg	25	SW 8260B	03/06/2001	1148
Di-isopropyl ether	<30	ug/kg	25	SW 8260B	03/06/2001	1148
Ethylbenzene	2,290	ug/kg	25	SW 8260B	03/06/2001	1148
Hexachlorobutadiene	<42	ug/kg	35	SW 8260B	03/06/2001	1148
Isopropylbenzene	554	ug/kg	25	SW 8260B	03/06/2001	1148
p-Isopropyltoluene	1,570	ug/kg	25	SW 8260B	03/06/2001	1148
Methylene Chloride	<60	ug/kg	50	SW 8260B	03/06/2001	1148
Methyl-t-butyl ether	<30	ug/kg	25	SW 8260B	03/06/2001	1148
Naphthalene	104,000	ug/kg	25	SW 8260B	03/07/2001	1150
n-Propylbenzene	193	ug/kg	25	SW 8260B	03/06/2001	1148
Styrene	<30	ug/kg	25	SW 8260B	03/06/2001	1148
1,1,1,2-Tetrachloroethane	<30	ug/kg	25	SW 8260B	03/06/2001	1148
1,1,2,2-Tetrachloroethane	<30	ug/kg	25	SW 8260B	03/06/2001	1148
Tetrachloroethene	<30	ug/kg	25	SW 8260B	03/06/2001	1148
Toluene	40	ug/kg	25	SW 8260B	03/06/2001	1148
1,2,3-Trichlorobenzene	<30	ug/kg	25	SW 8260B	03/06/2001	1148
1,2,4-Trichlorobenzene	<30	ug/kg	25	SW 8260B	03/06/2001	1148
1,1,1-Trichloroethane	<30	ug/kg	25	SW 8260B	03/06/2001	1148
1,1,2-Trichloroethane	<30	ug/kg	25	SW 8260B	03/06/2001	1148
Trichloroethene	<30	ug/kg	25	SW 8260B	03/06/2001	1148
Trichlorofluoromethane	<30	ug/kg	25	SW 8260B	03/06/2001	1148

## ANALYTICAL REPORT

Mr. Dave Trainor  
 URS/DAMES & MOORE  
 5250 East Terrace Drive  
 Suite I  
 Madison, WI 53718

03/19/2001  
 Job No: 01.01188  
 Sample No: 428108  
 Account No: 21400  
 Page 35 of 118

JOB DESCRIPTION: 05644-097 NSP/XCEL Ashland  
 PROJECT DESCRIPTION: Sediment Analysis  
 SAMPLE DESCRIPTION: SD-21 2-4 05644-097 NSP/XCEL  
 Ashland, WI  
 Rec'd on ice

Date/Time Taken: 03/01/2001 11:45

Date Received: 03/02/2001

Parameter	Results	Units	Reporting Limit	Method	Date Analyzed	Prep/Run Batch
1,2,3-Trichloropropane	<30	ug/kg	25	SW 8260B	03/06/2001	1148
1,2,4-Trimethylbenzene	3,370	ug/kg	25	SW 8260B	03/06/2001	1148
1,3,5-Trimethylbenzene	988	ug/kg	25	SW 8260B	03/06/2001	1148
Vinyl Chloride	<30	ug/kg	25	SW 8260B	03/06/2001	1148
Xylenes, Total	2,770	ug/kg	35	SW 8260B	03/06/2001	1148
Surr: Dibromofluoromethane	101.4	%	85-113	SW 8260B	03/06/2001	1148
Surr: Toluene-d8	100.8	%	93-105	SW 8260B	03/06/2001	1148
Surr: Bromofluorobenzene	100.2	%	85-111	SW 8260B	03/06/2001	1148



## ANALYTICAL REPORT

Mr. Dave Trainor  
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 5250 East Terrace Drive  
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03/19/2001  
 Job No: 01.01188  
 Sample No: 428109  
 Account No: 21400  
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JOB DESCRIPTION: 05644-097 NSP/XCEL Ashland  
 PROJECT DESCRIPTION: Sediment Analysis  
 SAMPLE DESCRIPTION: SD-21 4-5 05644-097 NSP/XCEL  
 Ashland, WI  
 Rec'd on ice

Date/Time Taken: 03/01/2001 11:45

Date Received: 03/02/2001

Parameter	Results	Units	Reporting Limit	Method	Date Analyzed	Prep/Run Batch
Solids, Total	85.0	%	n/a	SW 5030	03/09/2001	3578
BASE/NEUTRALS-8270 NONAQUEOUS						
Acenaphthene	247	mg/kg	0.33	SW 8270B	03/13/2001	329
Acenaphthylene	14	mg/kg	0.33	SW 8270B	03/09/2001	327
Anthracene	81	mg/kg	0.33	SW 8270B	03/13/2001	329
Benzo(a)anthracene	41	mg/kg	0.33	SW 8270B	03/09/2001	327
Benzo(b)fluoranthene	15	mg/kg	0.33	SW 8270B	03/09/2001	327
Benzo(k)fluoranthene	21	mg/kg	0.33	SW 8270B	03/09/2001	327
Benzo(g,h,i)perylene	19	mg/kg	0.33	SW 8270B	03/09/2001	327
Benzo(a)pyrene	38.8	mg/kg	0.33	SW 8270B	03/09/2001	327
Chrysene	39	mg/kg	0.33	SW 8270B	03/09/2001	327
Dibenzo(a,h)anthracene	3.6	mg/kg	0.33	SW 8270B	03/09/2001	327
Fluoranthene	110	mg/kg	0.33	SW 8270B	03/13/2001	329
Fluorene	110	mg/kg	0.33	SW 8270B	03/13/2001	329
Indeno(1,2,3-cd)pyrene	18	mg/kg	0.33	SW 8270B	03/09/2001	327
2-Methylnaphthalene	400	mg/kg	0.33	SW 8270B	03/13/2001	329
Naphthalene	600	mg/kg	0.33	SW 8270B	03/14/2001	330
Phenanthrene	294	mg/kg	0.33	SW 8270B	03/13/2001	329
Pyrene	153	mg/kg	0.33	SW 8270B	03/13/2001	329
Surr: Nitrobenzene-d5	128.0	%	n/a	SW 8270B	03/09/2001	327
Surr: 2-Fluorobiphenyl	105.0	%	n/a	SW 8270B	03/09/2001	327
Surr: Terphenyl-d14	125.0	%	n/a	SW 8270B	03/09/2001	327
VOC - METHANOL - 8260B						
Benzene	<1,410	ug/kg	25	SW 8260B	03/06/2001	1148
Bromobenzene	<1,410	ug/kg	25	SW 8260B	03/06/2001	1148
Bromochloromethane	<1,410	ug/kg	25	SW 8260B	03/06/2001	1148
Bromodichloromethane	<1,410	ug/kg	25	SW 8260B	03/06/2001	1148
Bromoform	<1,410	ug/kg	25	SW 8260B	03/06/2001	1148
Bromomethane	<5,880	ug/kg	100	SW 8260B	03/06/2001	1148
n-Butylbenzene	<1,410	ug/kg	25	SW 8260B	03/06/2001	1148
sec-Butylbenzene	<1,410	ug/kg	25	SW 8260B	03/06/2001	1148
tert-Butylbenzene	<1,410	ug/kg	25	SW 8260B	03/06/2001	1148
Carbon Tetrachloride	<1,410	ug/kg	25	SW 8260B	03/06/2001	1148
Chlorobenzene	<1,410	ug/kg	25	SW 8260B	03/06/2001	1148
Chlorodibromomethane	<1,410	ug/kg	25	SW 8260B	03/06/2001	1148
Chloroethane	<2,120	ug/kg	35	SW 8260B	03/06/2001	1148
Chloroform	<1,410	ug/kg	25	SW 8260B	03/06/2001	1148
Chloromethane	<2,940	ug/kg	50	SW 8260B	03/06/2001	1148
2-Chlorotoluene	<1,410	ug/kg	25	SW 8260B	03/06/2001	1148

## ANALYTICAL REPORT

Mr. Dave Trainor  
 URS/DAMES & MOORE  
 5250 East Terrace Drive  
 Suite I  
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03/19/2001  
 Job No: 01.01188  
 Sample No: 428109  
 Account No: 21400  
 Page 37 of 118

JOB DESCRIPTION: 05644-097 NSP/XCEL Ashland  
 PROJECT DESCRIPTION: Sediment Analysis  
 SAMPLE DESCRIPTION: SD-21 4-5 05644-097 NSP/XCEL  
 Ashland, WI  
 Rec'd on ice

Date/Time Taken: 03/01/2001 11:45

Date Received: 03/02/2001

Parameter	Results	Units	Reporting Limit	Method	Date Analyzed	Prep/Run Batch
4-Chlorotoluene	<1,410	ug/kg	25	SW 8260B	03/06/2001	1148
1,2-Dibromo-3-Chloropropane	<2,940	ug/kg	50	SW 8260B	03/06/2001	1148
1,2-Dibromoethane (EDB)	<1,410	ug/kg	25	SW 8260B	03/06/2001	1148
Dibromomethane	<1,410	ug/kg	25	SW 8260B	03/06/2001	1148
1,2-Dichlorobenzene	<1,410	ug/kg	25	SW 8260B	03/06/2001	1148
1,3-Dichlorobenzene	<1,410	ug/kg	25	SW 8260B	03/06/2001	1148
1,4-Dichlorobenzene	<1,410	ug/kg	25	SW 8260B	03/06/2001	1148
Dichlorodifluoromethane	<1,410	ug/kg	25	SW 8260B	03/06/2001	1148
1,1-Dichloroethane	<1,410	ug/kg	25	SW 8260B	03/06/2001	1148
1,2-Dichloroethane	<1,410	ug/kg	25	SW 8260B	03/06/2001	1148
1,1-Dichloroethene	<1,410	ug/kg	25	SW 8260B	03/06/2001	1148
cis-1,2-Dichloroethene	<1,410	ug/kg	25	SW 8260B	03/06/2001	1148
trans-1,2-Dichloroethene	<1,410	ug/kg	25	SW 8260B	03/06/2001	1148
1,2-Dichloropropane	<1,410	ug/kg	25	SW 8260B	03/06/2001	1148
1,3-Dichloropropane	<1,410	ug/kg	25	SW 8260B	03/06/2001	1148
2,2-Dichloropropane	<1,410	ug/kg	25	SW 8260B	03/06/2001	1148
1,1-Dichloropropene	<1,410	ug/kg	25	SW 8260B	03/06/2001	1148
cis-1,3-Dichloropropene	<1,410	ug/kg	25	SW 8260B	03/06/2001	1148
trans-1,3-Dichloropropene	<1,410	ug/kg	25	SW 8260B	03/06/2001	1148
Di-isopropyl ether	<1,410	ug/kg	25	SW 8260B	03/06/2001	1148
Ethylbenzene	43,500	ug/kg	25	SW 8260B	03/06/2001	1148
Hexachlorobutadiene	<2,120	ug/kg	35	SW 8260B	03/06/2001	1148
Isopropylbenzene	6,350	ug/kg	25	SW 8260B	03/06/2001	1148
p-Isopropyltoluene	8,000	ug/kg	25	SW 8260B	03/06/2001	1148
Methylene Chloride	<2,940	ug/kg	50	SW 8260B	03/06/2001	1148
Methyl-t-butyl ether	<1,410	ug/kg	25	SW 8260B	03/06/2001	1148
Naphthalene	1,650,000	ug/kg	25	SW 8260B	03/07/2001	1150
n-Propylbenzene	2,350	ug/kg	25	SW 8260B	03/06/2001	1148
Styrene	<1,410	ug/kg	25	SW 8260B	03/06/2001	1148
1,1,1,2-Tetrachloroethane	<1,410	ug/kg	25	SW 8260B	03/06/2001	1148
1,1,2,2-Tetrachloroethane	<1,410	ug/kg	25	SW 8260B	03/06/2001	1148
Tetrachloroethene	<1,410	ug/kg	25	SW 8260B	03/06/2001	1148
Toluene	3,060	ug/kg	25	SW 8260B	03/06/2001	1148
1,2,3-Trichlorobenzene	<1,410	ug/kg	25	SW 8260B	03/06/2001	1148
1,2,4-Trichlorobenzene	<1,410	ug/kg	25	SW 8260B	03/06/2001	1148
1,1,1-Trichloroethane	<1,410	ug/kg	25	SW 8260B	03/06/2001	1148
1,1,2-Trichloroethane	<1,410	ug/kg	25	SW 8260B	03/06/2001	1148
Trichloroethene	<1,410	ug/kg	25	SW 8260B	03/06/2001	1148
Trichlorofluoromethane	<1,410	ug/kg	25	SW 8260B	03/06/2001	1148

## ANALYTICAL REPORT

Mr. Dave Trainor  
 URS/DAMES & MOORE  
 5250 East Terrace Drive  
 Suite I  
 Madison, WI 53718

03/19/2001  
 Job No: 01.01188  
 Sample No: 428109  
 Account No: 21400  
 Page 38 of 118

JOB DESCRIPTION: 05644-097 NSP/XCEL Ashland  
 PROJECT DESCRIPTION: Sediment Analysis  
 SAMPLE DESCRIPTION: SD-21 4-5 05644-097 NSP/XCEL  
 Ashland, WI  
 Rec'd on ice

Date/Time Taken: 03/01/2001 11:45

Date Received: 03/02/2001

Parameter	Results	Units	Reporting Limit	Method	Date Analyzed	Prep/Run Batch
1,2,3-Trichloropropane	<1,410	ug/kg	25	SW 8260B	03/06/2001	1148
1,2,4-Trimethylbenzene	37,600	ug/kg	25	SW 8260B	03/06/2001	1148
1,3,5-Trimethylbenzene	6,940	ug/kg	25	SW 8260B	03/06/2001	1148
Vinyl Chloride	<1,410	ug/kg	25	SW 8260B	03/06/2001	1148
Xylenes, Total	43,500	ug/kg	35	SW 8260B	03/06/2001	1148
Surr: Dibromofluoromethane	111.0	%	85-113	SW 8260B	03/06/2001	1148
Surr: Toluene-d8	99.8	%	93-105	SW 8260B	03/06/2001	1148
Surr: Bromofluorobenzene	100.6	%	85-111	SW 8260B	03/06/2001	1148

## ANALYTICAL REPORT

Mr. Dave Trainor  
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 5250 East Terrace Drive  
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 Madison, WI 53718

03/19/2001  
 Job No: 01.01188  
 Sample No: 428110  
 Account No: 21400  
 Page 39 of 118

JOB DESCRIPTION: 05644-097 NSP/XCEL Ashland  
 PROJECT DESCRIPTION: Sediment Analysis  
 SAMPLE DESCRIPTION: SD-21 7-8 05644-097 NSP/XCEL  
 Ashland, WI  
 Rec'd on ice

Date/Time Taken: 03/01/2001 11:50

Date Received: 03/02/2001

Parameter	Results	Units	Reporting Limit	Method	Date Analyzed	Prep/Run Batch
Solids, Total	82.3	%	n/a	SW 5030	03/09/2001	3578
BASE/NEUTRALS-8270 NONAQUEOUS						
Acenaphthene	<0.40	mg/kg	0.33	SW 8270B	03/09/2001	327
Acenaphthylene	<0.40	mg/kg	0.33	SW 8270B	03/09/2001	327
Anthracene	<0.40	mg/kg	0.33	SW 8270B	03/09/2001	327
Benzo(a)anthracene	<0.40	mg/kg	0.33	SW 8270B	03/09/2001	327
Benzo(b)fluoranthene	<0.40	mg/kg	0.33	SW 8270B	03/09/2001	327
Benzo(k)fluoranthene	<0.40	mg/kg	0.33	SW 8270B	03/09/2001	327
Benzo(g,h,i)perylene	<0.40	mg/kg	0.33	SW 8270B	03/09/2001	327
Benzo(a)pyrene	<0.40	mg/kg	0.33	SW 8270B	03/09/2001	327
Chrysene	<0.40	mg/kg	0.33	SW 8270B	03/09/2001	327
Dibenzo(a,h)anthracene	<0.40	mg/kg	0.33	SW 8270B	03/09/2001	327
Fluoranthene	<0.40	mg/kg	0.33	SW 8270B	03/09/2001	327
Fluorene	<0.40	mg/kg	0.33	SW 8270B	03/09/2001	327
Indeno(1,2,3-cd)pyrene	<0.40	mg/kg	0.33	SW 8270B	03/09/2001	327
2-Methylnaphthalene	0.49	mg/kg	0.33	SW 8270B	03/09/2001	327
Naphthalene	0.95	mg/kg	0.33	SW 8270B	03/09/2001	327
Phenanthrene	<0.40	mg/kg	0.33	SW 8270B	03/09/2001	327
Pyrene	<0.40	mg/kg	0.33	SW 8270B	03/09/2001	327
Surr: Nitrobenzene-d5	83.6	%	n/a	SW 8270B	03/09/2001	327
Surr: 2-Fluorobiphenyl	78.5	%	n/a	SW 8270B	03/09/2001	327
Surr: Terphenyl-d14	112.0	%	n/a	SW 8270B	03/09/2001	327
VOC - METHANOL - 8260B						
Benzene	<30	ug/kg	25	SW 8260B	03/06/2001	1148
Bromobenzene	<30	ug/kg	25	SW 8260B	03/06/2001	1148
Bromochloromethane	<30	ug/kg	25	SW 8260B	03/06/2001	1148
Bromodichloromethane	<30	ug/kg	25	SW 8260B	03/06/2001	1148
Bromoform	<30	ug/kg	25	SW 8260B	03/06/2001	1148
Bromomethane	<122	ug/kg	100	SW 8260B	03/06/2001	1148
n-Butylbenzene	<30	ug/kg	25	SW 8260B	03/06/2001	1148
sec-Butylbenzene	<30	ug/kg	25	SW 8260B	03/06/2001	1148
tert-Butylbenzene	<30	ug/kg	25	SW 8260B	03/06/2001	1148
Carbon Tetrachloride	<30	ug/kg	25	SW 8260B	03/06/2001	1148
Chlorobenzene	<30	ug/kg	25	SW 8260B	03/06/2001	1148
Chlorodibromomethane	<30	ug/kg	25	SW 8260B	03/06/2001	1148
Chloroethane	<43	ug/kg	35	SW 8260B	03/06/2001	1148
Chloroform	<30	ug/kg	25	SW 8260B	03/06/2001	1148
Chloromethane	<61	ug/kg	50	SW 8260B	03/06/2001	1148
2-Chlorotoluene	<30	ug/kg	25	SW 8260B	03/06/2001	1148

## ANALYTICAL REPORT

Mr. Dave Trainor  
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 5250 East Terrace Drive  
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03/19/2001  
 Job No: 01.01188  
 Sample No: 428110  
 Account No: 21400  
 Page 40 of 118

JOB DESCRIPTION: 05644-097 NSP/XCEL Ashland  
 PROJECT DESCRIPTION: Sediment Analysis  
 SAMPLE DESCRIPTION: SD-21 7-8 05644-097 NSP/XCEL  
 Ashland, WI  
 Rec'd on ice

Date/Time Taken: 03/01/2001 11:50

Date Received: 03/02/2001

Parameter	Results	Units	Reporting Limit	Method	Date Analyzed	Prep/Run Batch
4-Chlorotoluene	<30	ug/kg	25	SW 8260B	03/06/2001	1148
1,2-Dibromo-3-Chloropropane	<61	ug/kg	50	SW 8260B	03/06/2001	1148
1,2-Dibromoethane (EDB)	<30	ug/kg	25	SW 8260B	03/06/2001	1148
Dibromomethane	<30	ug/kg	25	SW 8260B	03/06/2001	1148
1,2-Dichlorobenzene	<30	ug/kg	25	SW 8260B	03/06/2001	1148
1,3-Dichlorobenzene	<30	ug/kg	25	SW 8260B	03/06/2001	1148
1,4-Dichlorobenzene	<30	ug/kg	25	SW 8260B	03/06/2001	1148
Dichlorodifluoromethane	<30	ug/kg	25	SW 8260B	03/06/2001	1148
1,1-Dichloroethane	<30	ug/kg	25	SW 8260B	03/06/2001	1148
1,2-Dichloroethane	<30	ug/kg	25	SW 8260B	03/06/2001	1148
1,1-Dichloroethene	<30	ug/kg	25	SW 8260B	03/06/2001	1148
cis-1,2-Dichloroethene	<30	ug/kg	25	SW 8260B	03/06/2001	1148
trans-1,2-Dichloroethene	<30	ug/kg	25	SW 8260B	03/06/2001	1148
1,2-Dichloropropane	<30	ug/kg	25	SW 8260B	03/06/2001	1148
1,3-Dichloropropane	<30	ug/kg	25	SW 8260B	03/06/2001	1148
2,2-Dichloropropane	<30	ug/kg	25	SW 8260B	03/06/2001	1148
1,1-Dichloropropene	<30	ug/kg	25	SW 8260B	03/06/2001	1148
cis-1,3-Dichloropropene	<30	ug/kg	25	SW 8260B	03/06/2001	1148
trans-1,3-Dichloropropene	<30	ug/kg	25	SW 8260B	03/06/2001	1148
Di-isopropyl ether	<30	ug/kg	25	SW 8260B	03/06/2001	1148
Ethylbenzene	255	ug/kg	25	SW 8260B	03/06/2001	1148
Hexachlorobutadiene	<43	ug/kg	35	SW 8260B	03/06/2001	1148
Isopropylbenzene	44	ug/kg	25	SW 8260B	03/06/2001	1148
p-Isopropyltoluene	60	ug/kg	25	SW 8260B	03/06/2001	1148
Methylene Chloride	<61	ug/kg	50	SW 8260B	03/06/2001	1148
Methyl-t-butyl ether	<30	ug/kg	25	SW 8260B	03/06/2001	1148
Naphthalene	7,050	ug/kg	25	SW 8260B	03/07/2001	1150
n-Propylbenzene	<30	ug/kg	25	SW 8260B	03/06/2001	1148
Styrene	<30	ug/kg	25	SW 8260B	03/06/2001	1148
1,1,1,2-Tetrachloroethane	<30	ug/kg	25	SW 8260B	03/06/2001	1148
1,1,2,2-Tetrachloroethane	<30	ug/kg	25	SW 8260B	03/06/2001	1148
Tetrachloroethene	<30	ug/kg	25	SW 8260B	03/06/2001	1148
Toluene	<30	ug/kg	25	SW 8260B	03/06/2001	1148
1,2,3-Trichlorobenzene	<30	ug/kg	25	SW 8260B	03/06/2001	1148
1,2,4-Trichlorobenzene	<30	ug/kg	25	SW 8260B	03/06/2001	1148
1,1,1-Trichloroethane	<30	ug/kg	25	SW 8260B	03/06/2001	1148
1,1,2-Trichloroethane	<30	ug/kg	25	SW 8260B	03/06/2001	1148
Trichloroethene	<30	ug/kg	25	SW 8260B	03/06/2001	1148
Trichlorofluoromethane	<30	ug/kg	25	SW 8260B	03/06/2001	1148

## ANALYTICAL REPORT

Mr. Dave Trainor  
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03/19/2001  
 Job No: 01.01188  
 Sample No: 428110  
 Account No: 21400  
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JOB DESCRIPTION: 05644-097 NSP/XCEL Ashland  
 PROJECT DESCRIPTION: Sediment Analysis  
 SAMPLE DESCRIPTION: SD-21 7-8 05644-097 NSP/XCEL  
 Ashland, WI  
 Rec'd on ice

Date/Time Taken: 03/01/2001 11:50

Date Received: 03/02/2001

Parameter	Results	Units	Reporting Limit	Method	Date Analyzed	Prep/Run Batch
1,2,3-Trichloropropane	<30	ug/kg	25	SW 8260B	03/06/2001	1148
1,2,4-Trimethylbenzene	267	ug/kg	25	SW 8260B	03/06/2001	1148
1,3,5-Trimethylbenzene	56	ug/kg	25	SW 8260B	03/06/2001	1148
Vinyl Chloride	<30	ug/kg	25	SW 8260B	03/06/2001	1148
Xylenes, Total	255	ug/kg	35	SW 8260B	03/06/2001	1148
Surr: Dibromofluoromethane	97.2	%	85-113	SW 8260B	03/06/2001	1148
Surr: Toluene-d8	101.6	%	93-105	SW 8260B	03/06/2001	1148
Surr: Bromofluorobenzene	100.2	%	85-111	SW 8260B	03/06/2001	1148

## ANALYTICAL REPORT

Mr. Dave Trainor  
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03/19/2001  
 Job No: 01.01188  
 Sample No: 428111  
 Account No: 21400  
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JOB DESCRIPTION: 05644-097 NSP/XCEL Ashland  
 PROJECT DESCRIPTION: Sediment Analysis  
 SAMPLE DESCRIPTION: SD-21 9-10 05644-097 NSP/XCEL  
 Ashland, WI  
 Rec'd on ice

Date/Time Taken: 03/01/2001 11:55

Date Received: 03/02/2001

Parameter	Results	Units	Reporting Limit	Method	Date Analyzed	Prep/Run Batch
Solids, Total	79.6	%	n/a	SW 5030	03/09/2001	3578
-BASE/NEUTRALS-8270 NONAQUEOUS						
Acenaphthene	<0.41	mg/kg	0.33	SW 8270B	03/09/2001	327
Acenaphthylene	<0.41	mg/kg	0.33	SW 8270B	03/09/2001	327
Anthracene	<0.41	mg/kg	0.33	SW 8270B	03/09/2001	327
Benzo (a) anthracene	<0.41	mg/kg	0.33	SW 8270B	03/09/2001	327
Benzo (b) fluoranthene	<0.41	mg/kg	0.33	SW 8270B	03/09/2001	327
Benzo (k) fluoranthene	<0.41	mg/kg	0.33	SW 8270B	03/09/2001	327
Benzo (g, h, i) perylene	<0.41	mg/kg	0.33	SW 8270B	03/09/2001	327
Benzo (a) pyrene	<0.41	mg/kg	0.33	SW 8270B	03/09/2001	327
Chrysene	<0.41	mg/kg	0.33	SW 8270B	03/09/2001	327
Dibenzo (a, h) anthracene	<0.41	mg/kg	0.33	SW 8270B	03/09/2001	327
Fluoranthene	<0.41	mg/kg	0.33	SW 8270B	03/09/2001	327
Fluorene	<0.41	mg/kg	0.33	SW 8270B	03/09/2001	327
Indeno (1, 2, 3-cd) pyrene	<0.41	mg/kg	0.33	SW 8270B	03/09/2001	327
2-Methylnaphthalene	0.44	mg/kg	0.33	SW 8270B	03/09/2001	327
Naphthalene	0.68	mg/kg	0.33	SW 8270B	03/09/2001	327
Phenanthrene	0.46	mg/kg	0.33	SW 8270B	03/09/2001	327
Pyrene	<0.41	mg/kg	0.33	SW 8270B	03/09/2001	327
Surr: Nitrobenzene-d5	76.2	%	n/a	SW 8270B	03/09/2001	327
Surr: 2-Fluorobiphenyl	72.1	%	n/a	SW 8270B	03/09/2001	327
Surr: Terphenyl-d14	94.3	%	n/a	SW 8270B	03/09/2001	327
VOC - METHANOL - 8260B						
Benzene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Bromobenzene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Bromochloromethane	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Bromodichloromethane	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Bromoform	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Bromomethane	<126	ug/kg	100	SW 8260B	03/06/2001	1148
n-Butylbenzene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
sec-Butylbenzene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
tert-Butylbenzene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Carbon Tetrachloride	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Chlorobenzene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Chlorodibromomethane	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Chloroethane	<44	ug/kg	35	SW 8260B	03/06/2001	1148
Chloroform	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Chloromethane	<63	ug/kg	50	SW 8260B	03/06/2001	1148
2-Chlorotoluene	<31	ug/kg	25	SW 8260B	03/06/2001	1148

## ANALYTICAL REPORT

Mr. Dave Trainor  
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03/19/2001  
 Job No: 01.01188  
 Sample No: 428111  
 Account No: 21400  
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JOB DESCRIPTION: 05644-097 NSP/XCEL Ashland  
 PROJECT DESCRIPTION: Sediment Analysis  
 SAMPLE DESCRIPTION: SD-21 9-10 05644-097 NSP/XCEL  
 Ashland, WI  
 Rec'd on ice

Date/Time Taken: 03/01/2001 11:55      Date Received: 03/02/2001

Parameter	Results	Units	Reporting Limit	Method	Date Analyzed	Prep/Run Batch
4-Chlorotoluene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
1,2-Dibromo-3-Chloropropane	<63	ug/kg	50	SW 8260B	03/06/2001	1148
1,2-Dibromoethane (EDB)	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Dibromomethane	<31	ug/kg	25	SW 8260B	03/06/2001	1148
1,2-Dichlorobenzene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
1,3-Dichlorobenzene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
1,4-Dichlorobenzene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Dichlorodifluoromethane	<31	ug/kg	25	SW 8260B	03/06/2001	1148
1,1-Dichloroethane	<31	ug/kg	25	SW 8260B	03/06/2001	1148
1,2-Dichloroethane	<31	ug/kg	25	SW 8260B	03/06/2001	1148
1,1-Dichloroethene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
cis-1,2-Dichloroethene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
trans-1,2-Dichloroethene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
1,2-Dichloropropane	<31	ug/kg	25	SW 8260B	03/06/2001	1148
1,3-Dichloropropane	<31	ug/kg	25	SW 8260B	03/06/2001	1148
2,2-Dichloropropane	<31	ug/kg	25	SW 8260B	03/06/2001	1148
1,1-Dichloropropene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
cis-1,3-Dichloropropene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
trans-1,3-Dichloropropene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Di-isopropyl ether	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Ethylbenzene	88	ug/kg	25	SW 8260B	03/06/2001	1148
Hexachlorobutadiene	<44	ug/kg	35	SW 8260B	03/06/2001	1148
Isopropylbenzene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
p-Isopropyltoluene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Methylene Chloride	L 100	ug/kg	50	SW 8260B	03/06/2001	1148
Methyl-t-butyl ether	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Naphthalene	3,020	ug/kg	25	SW 8260B	03/07/2001	1150
n-Propylbenzene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Styrene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
1,1,1,2-Tetrachloroethane	<31	ug/kg	25	SW 8260B	03/06/2001	1148
1,1,2,2-Tetrachloroethane	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Tetrachloroethene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Toluene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
1,2,3-Trichlorobenzene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
1,2,4-Trichlorobenzene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
1,1,1-Trichloroethane	<31	ug/kg	25	SW 8260B	03/06/2001	1148
1,1,2-Trichloroethane	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Trichloroethene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Trichlorofluoromethane	<31	ug/kg	25	SW 8260B	03/06/2001	1148



## ANALYTICAL REPORT

Mr. Dave Trainor  
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03/19/2001  
 Job No: 01.01188  
 Sample No: 428111  
 Account No: 21400  
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JOB DESCRIPTION: 05644-097 NSP/XCEL Ashland  
 PROJECT DESCRIPTION: Sediment Analysis  
 SAMPLE DESCRIPTION: SD-21 9-10 05644-097 NSP/XCEL  
 Ashland, WI  
 Rec'd on ice

Date/Time Taken: 03/01/2001 11:55

Date Received: 03/02/2001

Parameter	Results	Units	Reporting Limit	Method	Date Analyzed	Prep/Run Batch
1,2,3-Trichloropropane	<31	ug/kg	25	SW 8260B	03/06/2001	1148
1,2,4-Trimethylbenzene	98	ug/kg	25	SW 8260B	03/06/2001	1148
1,3,5-Trimethylbenzene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Vinyl Chloride	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Xylenes, Total	90	ug/kg	35	SW 8260B	03/06/2001	1148
Surr: Dibromofluoromethane	99.4	%	85-113	SW 8260B	03/06/2001	1148
Surr: Toluene-d8	101.6	%	93-105	SW 8260B	03/06/2001	1148
Surr: Bromofluorobenzene	99.8	%	85-111	SW 8260B	03/06/2001	1148

## ANALYTICAL REPORT

Mr. Dave Trainor  
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03/19/2001  
 Job No: 01.01188  
 Sample No: 428112  
 Account No: 21400  
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JOB DESCRIPTION: 05644-097 NSP/XCEL Ashland  
 PROJECT DESCRIPTION: Sediment Analysis  
 SAMPLE DESCRIPTION: SD-12 2-4 05644-097 NSP/XCEL  
 Ashland, WI  
 Rec'd on ice

Date/Time Taken: 03/01/2001 12:20

Date Received: 03/02/2001

Parameter	Results	Units	Reporting Limit	Method	Date Analyzed	Prep/Run Batch
Solids, Total	75.9	%	n/a	SW 5030	03/09/2001	3578
BASE/NEUTRALS-8270 NONAQUEOUS						
Acenaphthene	1.8	mg/kg	0.33	SW 8270B	03/09/2001	327
Acenaphthylene	<0.43	mg/kg	0.33	SW 8270B	03/09/2001	327
Anthracene	0.59	mg/kg	0.33	SW 8270B	03/09/2001	327
Benzo(a)anthracene	<0.43	mg/kg	0.33	SW 8270B	03/09/2001	327
Benzo(b)fluoranthene	<0.43	mg/kg	0.33	SW 8270B	03/09/2001	327
Benzo(k)fluoranthene	<0.43	mg/kg	0.33	SW 8270B	03/09/2001	327
Benzo(g,h,i)perylene	<0.43	mg/kg	0.33	SW 8270B	03/09/2001	327
Benzo(a)pyrene	<0.43	mg/kg	0.33	SW 8270B	03/09/2001	327
Chrysene	<0.43	mg/kg	0.33	SW 8270B	03/09/2001	327
Dibenzo(a,h)anthracene	<0.43	mg/kg	0.33	SW 8270B	03/09/2001	327
Fluoranthene	0.99	mg/kg	0.33	SW 8270B	03/09/2001	327
Fluorene	0.75	mg/kg	0.33	SW 8270B	03/09/2001	327
Indeno(1,2,3-cd)pyrene	<0.43	mg/kg	0.33	SW 8270B	03/09/2001	327
2-Methylnaphthalene	2.8	mg/kg	0.33	SW 8270B	03/09/2001	327
Naphthalene	5.9	mg/kg	0.33	SW 8270B	03/09/2001	327
Phenanthrene	2.4	mg/kg	0.33	SW 8270B	03/09/2001	327
Pyrene	1.4	mg/kg	0.33	SW 8270B	03/09/2001	327
Surr: Nitrobenzene-d5	82.5	%	n/a	SW 8270B	03/09/2001	327
Surr: 2-Fluorobiphenyl	73.1	%	n/a	SW 8270B	03/09/2001	327
Surr: Terphenyl-d14	85.6	%	n/a	SW 8270B	03/09/2001	327
VOC - METHANOL - 8260B						
Benzene	<33	ug/kg	25	SW 8260B	03/06/2001	1148
Bromobenzene	<33	ug/kg	25	SW 8260B	03/06/2001	1148
Bromochloromethane	<33	ug/kg	25	SW 8260B	03/06/2001	1148
Bromodichloromethane	<33	ug/kg	25	SW 8260B	03/06/2001	1148
Bromoform	<33	ug/kg	25	SW 8260B	03/06/2001	1148
Bromomethane	<132	ug/kg	100	SW 8260B	03/06/2001	1148
n-Butylbenzene	<33	ug/kg	25	SW 8260B	03/06/2001	1148
sec-Butylbenzene	<33	ug/kg	25	SW 8260B	03/06/2001	1148
tert-Butylbenzene	<33	ug/kg	25	SW 8260B	03/06/2001	1148
Carbon Tetrachloride	<33	ug/kg	25	SW 8260B	03/06/2001	1148
Chlorobenzene	<33	ug/kg	25	SW 8260B	03/06/2001	1148
Chlorodibromomethane	<33	ug/kg	25	SW 8260B	03/06/2001	1148
Chloroethane	<46	ug/kg	35	SW 8260B	03/06/2001	1148
Chloroform	<33	ug/kg	25	SW 8260B	03/06/2001	1148
Chloromethane	<66	ug/kg	50	SW 8260B	03/06/2001	1148
2-Chlorotoluene	<33	ug/kg	25	SW 8260B	03/06/2001	1148

## ANALYTICAL REPORT

Mr. Dave Trainor  
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03/19/2001  
 Job No: 01.01188  
 Sample No: 428112  
 Account No: 21400  
 Page 46 of 118

JOB DESCRIPTION: 05644-097 NSP/XCEL Ashland  
 PROJECT DESCRIPTION: Sediment Analysis  
 SAMPLE DESCRIPTION: SD-12 2-4 05644-097 NSP/XCEL  
 Ashland, WI  
 Rec'd on ice

Date/Time Taken: 03/01/2001 12:20

Date Received: 03/02/2001

Parameter	Results	Units	Reporting Limit	Method	Date Analyzed	Prep/Run Batch
4-Chlorotoluene	<33	ug/kg	25	SW 8260B	03/06/2001	1148
1,2-Dibromo-3-Chloropropane	<66	ug/kg	50	SW 8260B	03/06/2001	1148
1,2-Dibromoethane (EDB)	<33	ug/kg	25	SW 8260B	03/06/2001	1148
Dibromomethane	<33	ug/kg	25	SW 8260B	03/06/2001	1148
1,2-Dichlorobenzene	<33	ug/kg	25	SW 8260B	03/06/2001	1148
1,3-Dichlorobenzene	<33	ug/kg	25	SW 8260B	03/06/2001	1148
1,4-Dichlorobenzene	<33	ug/kg	25	SW 8260B	03/06/2001	1148
Dichlorodifluoromethane	<33	ug/kg	25	SW 8260B	03/06/2001	1148
1,1-Dichloroethane	<33	ug/kg	25	SW 8260B	03/06/2001	1148
1,2-Dichloroethane	<33	ug/kg	25	SW 8260B	03/06/2001	1148
1,1-Dichloroethene	<33	ug/kg	25	SW 8260B	03/06/2001	1148
cis-1,2-Dichloroethene	<33	ug/kg	25	SW 8260B	03/06/2001	1148
trans-1,2-Dichloroethene	<33	ug/kg	25	SW 8260B	03/06/2001	1148
1,2-Dichloropropane	<33	ug/kg	25	SW 8260B	03/06/2001	1148
1,3-Dichloropropane	<33	ug/kg	25	SW 8260B	03/06/2001	1148
2,2-Dichloropropane	<33	ug/kg	25	SW 8260B	03/06/2001	1148
1,1-Dichloropropene	<33	ug/kg	25	SW 8260B	03/06/2001	1148
cis-1,3-Dichloropropene	<33	ug/kg	25	SW 8260B	03/06/2001	1148
trans-1,3-Dichloropropene	<33	ug/kg	25	SW 8260B	03/06/2001	1148
Di-isopropyl ether	<33	ug/kg	25	SW 8260B	03/06/2001	1148
Ethylbenzene	40	ug/kg	25	SW 8260B	03/06/2001	1148
Hexachlorobutadiene	<46	ug/kg	35	SW 8260B	03/06/2001	1148
Isopropylbenzene	<33	ug/kg	25	SW 8260B	03/06/2001	1148
p-Isopropyltoluene	<33	ug/kg	25	SW 8260B	03/06/2001	1148
Methylene Chloride	72	ug/kg	50	SW 8260B	03/06/2001	1148
Methyl-t-butyl ether	<33	ug/kg	25	SW 8260B	03/06/2001	1148
Naphthalene	2,110	ug/kg	25	SW 8260B	03/07/2001	1149
n-Propylbenzene	<33	ug/kg	25	SW 8260B	03/06/2001	1148
Styrene	<33	ug/kg	25	SW 8260B	03/06/2001	1148
1,1,1,2-Tetrachloroethane	<33	ug/kg	25	SW 8260B	03/06/2001	1148
1,1,1,2,2-Tetrachloroethane	<33	ug/kg	25	SW 8260B	03/06/2001	1148
Tetrachloroethene	<33	ug/kg	25	SW 8260B	03/06/2001	1148
Toluene	<33	ug/kg	25	SW 8260B	03/06/2001	1148
1,2,3-Trichlorobenzene	<33	ug/kg	25	SW 8260B	03/06/2001	1148
1,2,4-Trichlorobenzene	<33	ug/kg	25	SW 8260B	03/06/2001	1148
1,1,1-Trichloroethane	<33	ug/kg	25	SW 8260B	03/06/2001	1148
1,1,2-Trichloroethane	<33	ug/kg	25	SW 8260B	03/06/2001	1148
Trichloroethene	<33	ug/kg	25	SW 8260B	03/06/2001	1148
Trichlorofluoromethane	<33	ug/kg	25	SW 8260B	03/06/2001	1148

## ANALYTICAL REPORT

Mr. Dave Trainor  
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03/19/2001  
 Job No: 01.01188  
 Sample No: 428112  
 Account No: 21400  
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JOB DESCRIPTION: 05644-097 NSP/XCEL Ashland  
 PROJECT DESCRIPTION: Sediment Analysis  
 SAMPLE DESCRIPTION: SD-12 2-4 05644-097 NSP/XCEL  
 Ashland, WI  
 Rec'd on ice

Date/Time Taken: 03/01/2001 12:20

Date Received: 03/02/2001

Parameter	Results	Units	Reporting Limit	Method	Date Analyzed	Prep/Run Batch
1,2,3-Trichloropropane	<33	ug/kg	25	SW 8260B	03/06/2001	1148
1,2,4-Trimethylbenzene	91	ug/kg	25	SW 8260B	03/06/2001	1148
1,3,5-Trimethylbenzene	<33	ug/kg	25	SW 8260B	03/06/2001	1148
Vinyl Chloride	<33	ug/kg	25	SW 8260B	03/06/2001	1148
Xylenes, Total	71	ug/kg	35	SW 8260B	03/06/2001	1148
Surr: Dibromofluoromethane	97.8	%	85-113	SW 8260B	03/06/2001	1148
Surr: Toluene-d8	101.4	%	93-105	SW 8260B	03/06/2001	1148
Surr: Bromofluorobenzene	99.2	%	85-111	SW 8260B	03/06/2001	1148

## ANALYTICAL REPORT

Mr. Dave Trainor  
 URS/DAMES & MOORE  
 5250 East Terrace Drive  
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03/19/2001  
 Job No: 01.01188  
 Sample No: 428113  
 Account No: 21400  
 Page 48 of 118

JOB DESCRIPTION: 05644-097 NSP/XCEL Ashland  
 PROJECT DESCRIPTION: Sediment Analysis  
 SAMPLE DESCRIPTION: SD-12 4-6 05644-097 NSP/XCEL  
 Ashland, WI  
 Rec'd on ice

Date/Time Taken: 03/01/2001 12:25

Date Received: 03/02/2001

Parameter	Results	Units	Reporting Limit	Method	Date Analyzed	Prep/Run Batch
Solids, Total	84.9	%	n/a	SW 5030	03/09/2001	3578
BASE/NEUTRALS-8270 NONAQUEOUS						
Acenaphthene	<0.39	mg/kg	0.33	SW 8270B	03/09/2001	327
Acenaphthylene	<0.39	mg/kg	0.33	SW 8270B	03/09/2001	327
Anthracene	<0.39	mg/kg	0.33	SW 8270B	03/09/2001	327
Benzo(a)anthracene	<0.39	mg/kg	0.33	SW 8270B	03/09/2001	327
Benzo(b)fluoranthene	<0.39	mg/kg	0.33	SW 8270B	03/09/2001	327
Benzo(k)fluoranthene	<0.39	mg/kg	0.33	SW 8270B	03/09/2001	327
Benzo(g,h,i)perylene	<0.39	mg/kg	0.33	SW 8270B	03/09/2001	327
Benzo(a)pyrene	<0.39	mg/kg	0.33	SW 8270B	03/09/2001	327
Chrysene	<0.39	mg/kg	0.33	SW 8270B	03/09/2001	327
Dibenzo(a,h)anthracene	<0.39	mg/kg	0.33	SW 8270B	03/09/2001	327
Fluoranthene	<0.39	mg/kg	0.33	SW 8270B	03/09/2001	327
Fluorene	<0.39	mg/kg	0.33	SW 8270B	03/09/2001	327
Indeno(1,2,3-cd)pyrene	<0.39	mg/kg	0.33	SW 8270B	03/09/2001	327
2-Methylnaphthalene	<0.39	mg/kg	0.33	SW 8270B	03/09/2001	327
Naphthalene	<0.39	mg/kg	0.33	SW 8270B	03/09/2001	327
Phenanthrene	<0.39	mg/kg	0.33	SW 8270B	03/09/2001	327
Pyrene	<0.39	mg/kg	0.33	SW 8270B	03/09/2001	327
Surr: Nitrobenzene-d5	79.1	%	n/a	SW 8270B	03/09/2001	327
Surr: 2-Fluorobiphenyl	70.4	%	n/a	SW 8270B	03/09/2001	327
Surr: Terphenyl-d14	96.7	%	n/a	SW 8270B	03/09/2001	327
VOC - METHANOL - 8260B						
Benzene	<29	ug/kg	25	SW 8260B	03/07/2001	1149
Bromobenzene	<29	ug/kg	25	SW 8260B	03/07/2001	1149
Bromochloromethane	<29	ug/kg	25	SW 8260B	03/07/2001	1149
Bromodichloromethane	<29	ug/kg	25	SW 8260B	03/07/2001	1149
Bromoform	<29	ug/kg	25	SW 8260B	03/07/2001	1149
Bromomethane	<118	ug/kg	100	SW 8260B	03/07/2001	1149
n-Butylbenzene	<29	ug/kg	25	SW 8260B	03/07/2001	1149
sec-Butylbenzene	<29	ug/kg	25	SW 8260B	03/07/2001	1149
tert-Butylbenzene	<29	ug/kg	25	SW 8260B	03/07/2001	1149
Carbon Tetrachloride	<29	ug/kg	25	SW 8260B	03/07/2001	1149
Chlorobenzene	<29	ug/kg	25	SW 8260B	03/07/2001	1149
Chlorodibromomethane	<29	ug/kg	25	SW 8260B	03/07/2001	1149
Chloroethane	<41	ug/kg	35	SW 8260B	03/07/2001	1149
Chloroform	<29	ug/kg	25	SW 8260B	03/07/2001	1149
Chloromethane	<59	ug/kg	50	SW 8260B	03/07/2001	1149
2-Chlorotoluene	<29	ug/kg	25	SW 8260B	03/07/2001	1149

## ANALYTICAL REPORT

Mr. Dave Trainor  
 URS/DAMES & MOORE  
 5250 East Terrace Drive  
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03/19/2001  
 Job No: 01.01188  
 Sample No: 428113  
 Account No: 21400  
 Page 49 of 118

JOB DESCRIPTION: 05644-097 NSP/XCEL Ashland  
 PROJECT DESCRIPTION: Sediment Analysis  
 SAMPLE DESCRIPTION: SD-12 4-6 05644-097 NSP/XCEL  
 Ashland, WI  
 Rec'd on ice

Date/Time Taken: 03/01/2001 12:25

Date Received: 03/02/2001

Parameter	Results	Units	Reporting Limit	Method	Date Analyzed	Prep/Run Batch
4-Chlorotoluene	<29	ug/kg	25	SW 8260B	03/07/2001	1149
1,2-Dibromo-3-Chloropropane	<59	ug/kg	50	SW 8260B	03/07/2001	1149
1,2-Dibromoethane (EDB)	<29	ug/kg	25	SW 8260B	03/07/2001	1149
Dibromomethane	<29	ug/kg	25	SW 8260B	03/07/2001	1149
1,2-Dichlorobenzene	<29	ug/kg	25	SW 8260B	03/07/2001	1149
1,3-Dichlorobenzene	<29	ug/kg	25	SW 8260B	03/07/2001	1149
1,4-Dichlorobenzene	<29	ug/kg	25	SW 8260B	03/07/2001	1149
Dichlorodifluoromethane	<29	ug/kg	25	SW 8260B	03/07/2001	1149
1,1-Dichloroethane	<29	ug/kg	25	SW 8260B	03/07/2001	1149
1,2-Dichloroethane	<29	ug/kg	25	SW 8260B	03/07/2001	1149
1,1-Dichloroethene	<29	ug/kg	25	SW 8260B	03/07/2001	1149
cis-1,2-Dichloroethene	<29	ug/kg	25	SW 8260B	03/07/2001	1149
trans-1,2-Dichloroethene	<29	ug/kg	25	SW 8260B	03/07/2001	1149
1,2-Dichloropropane	<29	ug/kg	25	SW 8260B	03/07/2001	1149
1,3-Dichloropropane	<29	ug/kg	25	SW 8260B	03/07/2001	1149
2,2-Dichloropropane	<29	ug/kg	25	SW 8260B	03/07/2001	1149
1,1-Dichloropropene	<29	ug/kg	25	SW 8260B	03/07/2001	1149
cis-1,3-Dichloropropene	<29	ug/kg	25	SW 8260B	03/07/2001	1149
trans-1,3-Dichloropropene	<29	ug/kg	25	SW 8260B	03/07/2001	1149
Di-isopropyl ether	<29	ug/kg	25	SW 8260B	03/07/2001	1149
Ethylbenzene	<29	ug/kg	25	SW 8260B	03/07/2001	1149
Hexachlorobutadiene	<41	ug/kg	35	SW 8260B	03/07/2001	1149
Isopropylbenzene	<29	ug/kg	25	SW 8260B	03/07/2001	1149
p-Isopropyltoluene	<29	ug/kg	25	SW 8260B	03/07/2001	1149
Methylene Chloride	<59	ug/kg	50	SW 8260B	03/07/2001	1149
Methyl-t-butyl ether	<29	ug/kg	25	SW 8260B	03/07/2001	1149
Naphthalene	<29	ug/kg	25	SW 8260B	03/07/2001	1149
n-Propylbenzene	<29	ug/kg	25	SW 8260B	03/07/2001	1149
Styrene	<29	ug/kg	25	SW 8260B	03/07/2001	1149
1,1,1,2-Tetrachloroethane	<29	ug/kg	25	SW 8260B	03/07/2001	1149
1,1,2,2-Tetrachloroethane	<29	ug/kg	25	SW 8260B	03/07/2001	1149
Tetrachloroethene	<29	ug/kg	25	SW 8260B	03/07/2001	1149
Toluene	<29	ug/kg	25	SW 8260B	03/07/2001	1149
1,2,3-Trichlorobenzene	<29	ug/kg	25	SW 8260B	03/07/2001	1149
1,2,4-Trichlorobenzene	<29	ug/kg	25	SW 8260B	03/07/2001	1149
1,1,1-Trichloroethane	<29	ug/kg	25	SW 8260B	03/07/2001	1149
1,1,2-Trichloroethane	<29	ug/kg	25	SW 8260B	03/07/2001	1149
Trichloroethene	<29	ug/kg	25	SW 8260B	03/07/2001	1149
Trichlorofluoromethane	<29	ug/kg	25	SW 8260B	03/07/2001	1149

## ANALYTICAL REPORT

Mr. Dave Trainor  
 URS/DAMES & MOORE  
 5250 East Terrace Drive  
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 Madison, WI 53718

03/19/2001  
 Job No: 01.01188  
 Sample No: 428113  
 Account No: 21400  
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JOB DESCRIPTION: 05644-097 NSP/XCEL Ashland  
 PROJECT DESCRIPTION: Sediment Analysis  
 SAMPLE DESCRIPTION: SD-12 4-6 05644-097 NSP/XCEL  
 Ashland, WI  
 Rec'd on ice

Date/Time Taken: 03/01/2001 12:25                      Date Received: 03/02/2001

Parameter	Results	Units	Reporting Limit	Method	Date Analyzed	Prep/Run Batch
1,2,3-Trichloropropane	<29	ug/kg	25	SW 8260B	03/07/2001	1149
1,2,4-Trimethylbenzene	<29	ug/kg	25	SW 8260B	03/07/2001	1149
1,3,5-Trimethylbenzene	<29	ug/kg	25	SW 8260B	03/07/2001	1149
Vinyl Chloride	<29	ug/kg	25	SW 8260B	03/07/2001	1149
Xylenes, Total	<41	ug/kg	35	SW 8260B	03/07/2001	1149
Surr: Dibromofluoromethane	99.4	%	85-113	SW 8260B	03/07/2001	1149
Surr: Toluene-d8	98.8	%	93-105	SW 8260B	03/07/2001	1149
Surr: Bromofluorobenzene	97.2	%	85-111	SW 8260B	03/07/2001	1149

## ANALYTICAL REPORT

Mr. Dave Trainor  
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03/19/2001  
 Job No: 01.01188  
 Sample No: 428114  
 Account No: 21400  
 Page 51 of 118

JOB DESCRIPTION: 05644-097 NSP/XCEL Ashland  
 PROJECT DESCRIPTION: Sediment Analysis  
 SAMPLE DESCRIPTION: SD-12 6-8 05644-097 NSP/XCEL  
 Ashland, WI  
 Rec'd on ice

Date/Time Taken: 03/01/2001 12:30

Date Received: 03/02/2001

Parameter	Results	Units	Reporting Limit	Method	Date Analyzed	Prep/Run Batch
Solids, Total	83.5	%	n/a	SW 5030	03/09/2001	3578
BASE/NEUTRALS-8270 NONAQUEOUS						
Acenaphthene	<0.40	mg/kg	0.33	SW 8270B	03/09/2001	327
Acenaphthylene	<0.40	mg/kg	0.33	SW 8270B	03/09/2001	327
Anthracene	<0.40	mg/kg	0.33	SW 8270B	03/09/2001	327
Benzo(a)anthracene	<0.40	mg/kg	0.33	SW 8270B	03/09/2001	327
Benzo(b)fluoranthene	<0.40	mg/kg	0.33	SW 8270B	03/09/2001	327
Benzo(k)fluoranthene	<0.40	mg/kg	0.33	SW 8270B	03/09/2001	327
Benzo(g,h,i)perylene	<0.40	mg/kg	0.33	SW 8270B	03/09/2001	327
Benzo(a)pyrene	<0.40	mg/kg	0.33	SW 8270B	03/09/2001	327
Chrysene	<0.40	mg/kg	0.33	SW 8270B	03/09/2001	327
Dibenzo(a,h)anthracene	<0.40	mg/kg	0.33	SW 8270B	03/09/2001	327
Fluoranthene	<0.40	mg/kg	0.33	SW 8270B	03/09/2001	327
Fluorene	<0.40	mg/kg	0.33	SW 8270B	03/09/2001	327
Indeno(1,2,3-cd)pyrene	<0.40	mg/kg	0.33	SW 8270B	03/09/2001	327
2-Methylnaphthalene	<0.40	mg/kg	0.33	SW 8270B	03/09/2001	327
Naphthalene	<0.40	mg/kg	0.33	SW 8270B	03/09/2001	327
Phenanthrene	<0.40	mg/kg	0.33	SW 8270B	03/09/2001	327
Pyrene	<0.40	mg/kg	0.33	SW 8270B	03/09/2001	327
Surr: Nitrobenzene-d5	80.6	%	n/a	SW 8270B	03/09/2001	327
Surr: 2-Fluorobiphenyl	75.7	%	n/a	SW 8270B	03/09/2001	327
Surr: Terphenyl-d14	103.0	%	n/a	SW 8270B	03/09/2001	327
VOC - METHANOL - 8260B						
Benzene	<30	ug/kg	25	SW 8260B	03/06/2001	1147
Bromobenzene	<30	ug/kg	25	SW 8260B	03/06/2001	1147
Bromochloromethane	<30	ug/kg	25	SW 8260B	03/06/2001	1147
Bromodichloromethane	<30	ug/kg	25	SW 8260B	03/06/2001	1147
Bromoform	<30	ug/kg	25	SW 8260B	03/06/2001	1147
Bromomethane	<120	ug/kg	100	SW 8260B	03/06/2001	1147
n-Butylbenzene	<30	ug/kg	25	SW 8260B	03/06/2001	1147
sec-Butylbenzene	<30	ug/kg	25	SW 8260B	03/06/2001	1147
tert-Butylbenzene	<30	ug/kg	25	SW 8260B	03/06/2001	1147
Carbon Tetrachloride	<30	ug/kg	25	SW 8260B	03/06/2001	1147
Chlorobenzene	<30	ug/kg	25	SW 8260B	03/06/2001	1147
Chlorodibromomethane	<30	ug/kg	25	SW 8260B	03/06/2001	1147
Chloroethane	<42	ug/kg	35	SW 8260B	03/06/2001	1147
Chloroform	<30	ug/kg	25	SW 8260B	03/06/2001	1147
Chloromethane	<60	ug/kg	50	SW 8260B	03/06/2001	1147
2-Chlorotoluene	<30	ug/kg	25	SW 8260B	03/06/2001	1147



## ANALYTICAL REPORT

Mr. Dave Trainor  
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03/19/2001  
 Job No: 01.01188  
 Sample No: 428114  
 Account No: 21400  
 Page 52 of 118

JOB DESCRIPTION: 05644-097 NSP/XCEL Ashland  
 PROJECT DESCRIPTION: Sediment Analysis  
 SAMPLE DESCRIPTION: SD-12 6-8 05644-097 NSP/XCEL  
 Ashland, WI  
 Rec'd on ice

Date/Time Taken: 03/01/2001 12:30

Date Received: 03/02/2001

Parameter	Results	Units	Reporting Limit	Method	Date Analyzed	Prep/Run Batch
4-Chlorotoluene	<30	ug/kg	25	SW 8260B	03/06/2001	1147
1,2-Dibromo-3-Chloropropane	<60	ug/kg	50	SW 8260B	03/06/2001	1147
1,2-Dibromoethane (EDB)	<30	ug/kg	25	SW 8260B	03/06/2001	1147
Dibromomethane	<30	ug/kg	25	SW 8260B	03/06/2001	1147
1,2-Dichlorobenzene	<30	ug/kg	25	SW 8260B	03/06/2001	1147
1,3-Dichlorobenzene	<30	ug/kg	25	SW 8260B	03/06/2001	1147
1,4-Dichlorobenzene	<30	ug/kg	25	SW 8260B	03/06/2001	1147
Dichlorodifluoromethane	<30	ug/kg	25	SW 8260B	03/06/2001	1147
1,1-Dichloroethane	<30	ug/kg	25	SW 8260B	03/06/2001	1147
1,2-Dichloroethane	<30	ug/kg	25	SW 8260B	03/06/2001	1147
1,1-Dichloroethene	<30	ug/kg	25	SW 8260B	03/06/2001	1147
cis-1,2-Dichloroethene	<30	ug/kg	25	SW 8260B	03/06/2001	1147
trans-1,2-Dichloroethene	<30	ug/kg	25	SW 8260B	03/06/2001	1147
1,2-Dichloropropane	<30	ug/kg	25	SW 8260B	03/06/2001	1147
1,3-Dichloropropane	<30	ug/kg	25	SW 8260B	03/06/2001	1147
2,2-Dichloropropane	<30	ug/kg	25	SW 8260B	03/06/2001	1147
1,1-Dichloropropene	<30	ug/kg	25	SW 8260B	03/06/2001	1147
cis-1,3-Dichloropropene	<30	ug/kg	25	SW 8260B	03/06/2001	1147
trans-1,3-Dichloropropene	<30	ug/kg	25	SW 8260B	03/06/2001	1147
Di-isopropyl ether	<30	ug/kg	25	SW 8260B	03/06/2001	1147
Ethylbenzene	<30	ug/kg	25	SW 8260B	03/06/2001	1147
Hexachlorobutadiene	<42	ug/kg	35	SW 8260B	03/06/2001	1147
Isopropylbenzene	<30	ug/kg	25	SW 8260B	03/06/2001	1147
p-Isopropyltoluene	<30	ug/kg	25	SW 8260B	03/06/2001	1147
Methylene Chloride	L 68	ug/kg	50	SW 8260B	03/06/2001	1147
Methyl-t-butyl ether	<30	ug/kg	25	SW 8260B	03/06/2001	1147
Naphthalene	407	ug/kg	25	SW 8260B	03/06/2001	1147
n-Propylbenzene	<30	ug/kg	25	SW 8260B	03/06/2001	1147
Styrene	<30	ug/kg	25	SW 8260B	03/06/2001	1147
1,1,1,2-Tetrachloroethane	<30	ug/kg	25	SW 8260B	03/06/2001	1147
1,1,2,2-Tetrachloroethane	<30	ug/kg	25	SW 8260B	03/06/2001	1147
Tetrachloroethene	<30	ug/kg	25	SW 8260B	03/06/2001	1147
Toluene	<30	ug/kg	25	SW 8260B	03/06/2001	1147
1,2,3-Trichlorobenzene	<30	ug/kg	25	SW 8260B	03/06/2001	1147
1,2,4-Trichlorobenzene	<30	ug/kg	25	SW 8260B	03/06/2001	1147
1,1,1-Trichloroethane	<30	ug/kg	25	SW 8260B	03/06/2001	1147
1,1,2-Trichloroethane	<30	ug/kg	25	SW 8260B	03/06/2001	1147
Trichloroethene	<30	ug/kg	25	SW 8260B	03/06/2001	1147
Trichlorofluoromethane	<30	ug/kg	25	SW 8260B	03/06/2001	1147

## ANALYTICAL REPORT

Mr. Dave Trainor  
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 5250 East Terrace Drive  
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03/19/2001  
 Job No: 01.01188  
 Sample No: 428114  
 Account No: 21400  
 Page 53 of 118

JOB DESCRIPTION: 05644-097 NSP/XCEL Ashland  
 PROJECT DESCRIPTION: Sediment Analysis  
 SAMPLE DESCRIPTION: SD-12 6-8 05644-097 NSP/XCEL  
 Ashland, WI  
 Rec'd on ice

Date/Time Taken: 03/01/2001 12:30                      Date Received: 03/02/2001

Parameter	Results	Units	Reporting Limit	Method	Date Analyzed	Prep/Run Batch
1,2,3-Trichloropropane	<30	ug/kg	25	SW 8260B	03/06/2001	1147
1,2,4-Trimethylbenzene	<30	ug/kg	25	SW 8260B	03/06/2001	1147
1,3,5-Trimethylbenzene	<30	ug/kg	25	SW 8260B	03/06/2001	1147
Vinyl Chloride	<30	ug/kg	25	SW 8260B	03/06/2001	1147
Xylenes, Total	<42	ug/kg	35	SW 8260B	03/06/2001	1147
Surr: Dibromofluoromethane	98.2	%	85-113	SW 8260B	03/06/2001	1147
Surr: Toluene-d8	97.4	%	93-105	SW 8260B	03/06/2001	1147
Surr: Bromofluorobenzene	97.0	%	85-111	SW 8260B	03/06/2001	1147

## ANALYTICAL REPORT

Mr. Dave Trainor  
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 5250 East Terrace Drive  
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03/19/2001  
 Job No: 01.01188  
 Sample No: 428115  
 Account No: 21400  
 Page 54 of 118

JOB DESCRIPTION: 05644-097 NSP/XCEL Ashland  
 PROJECT DESCRIPTION: Sediment Analysis  
 SAMPLE DESCRIPTION: SD-23 0-2 05644-097 NSP/XCEL  
 Ashland, WI  
 Rec'd on ice

Date/Time Taken: 03/01/2001 14:10

Date Received: 03/02/2001

Parameter	Results	Units	Reporting Limit	Method	Date Analyzed	Prep/Run Batch
Solids, Total	69.1	%	n/a	SW 5030	03/09/2001	3578
BASE/NEUTRALS-8270 NONAQUEOUS						
Acenaphthene	<0.48	mg/kg	0.33	SW 8270B	03/09/2001	327
Acenaphthylene	<0.48	mg/kg	0.33	SW 8270B	03/09/2001	327
Anthracene	<0.48	mg/kg	0.33	SW 8270B	03/09/2001	327
Benzo(a)anthracene	<0.48	mg/kg	0.33	SW 8270B	03/09/2001	327
Benzo(b)fluoranthene	<0.48	mg/kg	0.33	SW 8270B	03/09/2001	327
Benzo(k)fluoranthene	<0.48	mg/kg	0.33	SW 8270B	03/09/2001	327
Benzo(g,h,i)perylene	<0.48	mg/kg	0.33	SW 8270B	03/09/2001	327
Benzo(a)pyrene	<0.48	mg/kg	0.33	SW 8270B	03/09/2001	327
Chrysene	<0.48	mg/kg	0.33	SW 8270B	03/09/2001	327
Dibenzo(a,h)anthracene	<0.48	mg/kg	0.33	SW 8270B	03/09/2001	327
Fluoranthene	<0.48	mg/kg	0.33	SW 8270B	03/09/2001	327
Fluorene	<0.48	mg/kg	0.33	SW 8270B	03/09/2001	327
Indeno(1,2,3-cd)pyrene	<0.48	mg/kg	0.33	SW 8270B	03/09/2001	327
2-Methylnaphthalene	<0.48	mg/kg	0.33	SW 8270B	03/09/2001	327
Naphthalene	<0.48	mg/kg	0.33	SW 8270B	03/09/2001	327
Phenanthrene	<0.48	mg/kg	0.33	SW 8270B	03/09/2001	327
Pyrene	<0.48	mg/kg	0.33	SW 8270B	03/09/2001	327
Surr: Nitrobenzene-d5	95.7	%	n/a	SW 8270B	03/09/2001	327
Surr: 2-Fluorobiphenyl	88.6	%	n/a	SW 8270B	03/09/2001	327
Surr: Terphenyl-d14	91.1	%	n/a	SW 8270B	03/09/2001	327
VOC - METHANOL - 8260B						
Benzene	<36	ug/kg	25	SW 8260B	03/06/2001	1148
Bromobenzene	<36	ug/kg	25	SW 8260B	03/06/2001	1148
Bromochloromethane	<36	ug/kg	25	SW 8260B	03/06/2001	1148
Bromodichloromethane	<36	ug/kg	25	SW 8260B	03/06/2001	1148
Bromoform	<36	ug/kg	25	SW 8260B	03/06/2001	1148
Bromomethane	<145	ug/kg	100	SW 8260B	03/06/2001	1148
n-Butylbenzene	<36	ug/kg	25	SW 8260B	03/06/2001	1148
sec-Butylbenzene	<36	ug/kg	25	SW 8260B	03/06/2001	1148
tert-Butylbenzene	<36	ug/kg	25	SW 8260B	03/06/2001	1148
Carbon Tetrachloride	<36	ug/kg	25	SW 8260B	03/06/2001	1148
Chlorobenzene	<36	ug/kg	25	SW 8260B	03/06/2001	1148
Chlorodibromomethane	<36	ug/kg	25	SW 8260B	03/06/2001	1148
Chloroethane	<51	ug/kg	35	SW 8260B	03/06/2001	1148
Chloroform	<36	ug/kg	25	SW 8260B	03/06/2001	1148
Chloromethane	<72	ug/kg	50	SW 8260B	03/06/2001	1148
2-Chlorotoluene	<36	ug/kg	25	SW 8260B	03/06/2001	1148

## ANALYTICAL REPORT

Mr. Dave Trainor  
 URS/DAMES & MOORE  
 5250 East Terrace Drive  
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03/19/2001  
 Job No: 01.01188  
 Sample No: 428115  
 Account No: 21400  
 Page 55 of 118

JOB DESCRIPTION: 05644-097 NSP/XCEL Ashland  
 PROJECT DESCRIPTION: Sediment Analysis  
 SAMPLE DESCRIPTION: SD-23 0-2 05644-097 NSP/XCEL  
 Ashland, WI  
 Rec'd on ice

Date/Time Taken: 03/01/2001 14:10

Date Received: 03/02/2001

Parameter	Results	Units	Reporting Limit	Method	Date Analyzed	Prep/Run Batch
4-Chlorotoluene	<36	ug/kg	25	SW 8260B	03/06/2001	1148
1,2-Dibromo-3-Chloropropane	<72	ug/kg	50	SW 8260B	03/06/2001	1148
1,2-Dibromoethane (EDB)	<36	ug/kg	25	SW 8260B	03/06/2001	1148
Dibromomethane	<36	ug/kg	25	SW 8260B	03/06/2001	1148
1,2-Dichlorobenzene	<36	ug/kg	25	SW 8260B	03/06/2001	1148
1,3-Dichlorobenzene	<36	ug/kg	25	SW 8260B	03/06/2001	1148
1,4-Dichlorobenzene	<36	ug/kg	25	SW 8260B	03/06/2001	1148
Dichlorodifluoromethane	<36	ug/kg	25	SW 8260B	03/06/2001	1148
1,1-Dichloroethane	<36	ug/kg	25	SW 8260B	03/06/2001	1148
1,2-Dichloroethane	<36	ug/kg	25	SW 8260B	03/06/2001	1148
1,1-Dichloroethene	<36	ug/kg	25	SW 8260B	03/06/2001	1148
cis-1,2-Dichloroethene	<36	ug/kg	25	SW 8260B	03/06/2001	1148
trans-1,2-Dichloroethene	<36	ug/kg	25	SW 8260B	03/06/2001	1148
1,2-Dichloropropane	<36	ug/kg	25	SW 8260B	03/06/2001	1148
1,3-Dichloropropane	<36	ug/kg	25	SW 8260B	03/06/2001	1148
2,2-Dichloropropane	<36	ug/kg	25	SW 8260B	03/06/2001	1148
1,1-Dichloropropene	<36	ug/kg	25	SW 8260B	03/06/2001	1148
cis-1,3-Dichloropropene	<36	ug/kg	25	SW 8260B	03/06/2001	1148
trans-1,3-Dichloropropene	<36	ug/kg	25	SW 8260B	03/06/2001	1148
Di-isopropyl ether	<36	ug/kg	25	SW 8260B	03/06/2001	1148
Ethylbenzene	<36	ug/kg	25	SW 8260B	03/06/2001	1148
Hexachlorobutadiene	<51	ug/kg	35	SW 8260B	03/06/2001	1148
Isopropylbenzene	<36	ug/kg	25	SW 8260B	03/06/2001	1148
p-Isopropyltoluene	120	ug/kg	25	SW 8260B	03/06/2001	1148
Methylene Chloride	<72	ug/kg	50	SW 8260B	03/06/2001	1148
Methyl-t-butyl ether	<36	ug/kg	25	SW 8260B	03/06/2001	1148
Naphthalene	62	ug/kg	25	SW 8260B	03/07/2001	1149
n-Propylbenzene	<36	ug/kg	25	SW 8260B	03/06/2001	1148
Styrene	<36	ug/kg	25	SW 8260B	03/06/2001	1148
1,1,1,2-Tetrachloroethane	<36	ug/kg	25	SW 8260B	03/06/2001	1148
1,1,2,2-Tetrachloroethane	<36	ug/kg	25	SW 8260B	03/06/2001	1148
Tetrachloroethene	<36	ug/kg	25	SW 8260B	03/06/2001	1148
Toluene	362	ug/kg	25	SW 8260B	03/06/2001	1148
1,2,3-Trichlorobenzene	<36	ug/kg	25	SW 8260B	03/06/2001	1148
1,2,4-Trichlorobenzene	<36	ug/kg	25	SW 8260B	03/06/2001	1148
1,1,1-Trichloroethane	<36	ug/kg	25	SW 8260B	03/06/2001	1148
1,1,2-Trichloroethane	<36	ug/kg	25	SW 8260B	03/06/2001	1148
Trichloroethene	<36	ug/kg	25	SW 8260B	03/06/2001	1148
Trichlorofluoromethane	<36	ug/kg	25	SW 8260B	03/06/2001	1148

## ANALYTICAL REPORT

Mr. Dave Trainor  
 URS/DAMES & MOORE  
 5250 East Terrace Drive  
 Suite I  
 Madison, WI 53718

03/19/2001  
 Job No: 01.01188  
 Sample No: 428115  
 Account No: 21400  
 Page 56 of 118

JOB DESCRIPTION: 05644-097 NSP/XCEL Ashland  
 PROJECT DESCRIPTION: Sediment Analysis  
 SAMPLE DESCRIPTION: SD-23 0-2 05644-097 NSP/XCEL  
 Ashland, WI  
 Rec'd on ice

Date/Time Taken: 03/01/2001 14:10

Date Received: 03/02/2001

Parameter	Results	Units	Reporting Limit	Method	Date Analyzed	Prep/Run Batch
1,2,3-Trichloropropane	<36	ug/kg	25	SW 8260B	03/06/2001	1148
1,2,4-Trimethylbenzene	<36	ug/kg	25	SW 8260B	03/06/2001	1148
1,3,5-Trimethylbenzene	<36	ug/kg	25	SW 8260B	03/06/2001	1148
Vinyl Chloride	<36	ug/kg	25	SW 8260B	03/06/2001	1148
Xylenes, Total	<51	ug/kg	35	SW 8260B	03/06/2001	1148
Surr: Dibromofluoromethane	102.0	%	85-113	SW 8260B	03/06/2001	1148
Surr: Toluene-d8	100.6	%	93-105	SW 8260B	03/06/2001	1148
Surr: Bromofluorobenzene	102.0	%	85-111	SW 8260B	03/06/2001	1148

## ANALYTICAL REPORT

Mr. Dave Trainor  
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 5250 East Terrace Drive  
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03/19/2001  
 Job No: 01.01188  
 Sample No: 428116  
 Account No: 21400  
 Page 57 of 118

JOB DESCRIPTION: 05644-097 NSP/XCEL Ashland  
 PROJECT DESCRIPTION: Sediment Analysis  
 SAMPLE DESCRIPTION: SD-23 2-4 05644-097 NSP/XCEL  
 Ashland, WI  
 Rec'd on ice

Date/Time Taken: 03/01/2001 14:15

Date Received: 03/02/2001

Parameter	Results	Units	Reporting Limit	Method	Date Analyzed	Prep/Run Batch
Solids, Total	80.0	%	n/a	SW 5030	03/09/2001	3578
BASE/NEUTRALS-8270 NONAQUEOUS						
Acenaphthene	<0.41	mg/kg	0.33	SW 8270B	03/09/2001	327
Acenaphthylene	<0.41	mg/kg	0.33	SW 8270B	03/09/2001	327
Anthracene	<0.41	mg/kg	0.33	SW 8270B	03/09/2001	327
Benzo(a)anthracene	<0.41	mg/kg	0.33	SW 8270B	03/09/2001	327
Benzo(b)fluoranthene	<0.41	mg/kg	0.33	SW 8270B	03/09/2001	327
Benzo(k)fluoranthene	<0.41	mg/kg	0.33	SW 8270B	03/09/2001	327
Benzo(g,h,i)perylene	<0.41	mg/kg	0.33	SW 8270B	03/09/2001	327
Benzo(a)pyrene	<0.41	mg/kg	0.33	SW 8270B	03/09/2001	327
Chrysene	<0.41	mg/kg	0.33	SW 8270B	03/09/2001	327
Dibenzo(a,h)anthracene	<0.41	mg/kg	0.33	SW 8270B	03/09/2001	327
Fluoranthene	<0.41	mg/kg	0.33	SW 8270B	03/09/2001	327
Fluorene	<0.41	mg/kg	0.33	SW 8270B	03/09/2001	327
Indeno(1,2,3-cd)pyrene	<0.41	mg/kg	0.33	SW 8270B	03/09/2001	327
2-Methylnaphthalene	<0.41	mg/kg	0.33	SW 8270B	03/09/2001	327
Naphthalene	<0.41	mg/kg	0.33	SW 8270B	03/09/2001	327
Phenanthrene	<0.41	mg/kg	0.33	SW 8270B	03/09/2001	327
Pyrene	<0.41	mg/kg	0.33	SW 8270B	03/09/2001	327
Surr: Nitrobenzene-d5	68.7	%	n/a	SW 8270B	03/09/2001	327
Surr: 2-Fluorobiphenyl	74.3	%	n/a	SW 8270B	03/09/2001	327
Surr: Terphenyl-d14	97.8	%	n/a	SW 8270B	03/09/2001	327
VOC - METHANOL - 8260B						
Benzene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Bromobenzene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Bromochloromethane	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Bromodichloromethane	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Bromoform	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Bromomethane	<125	ug/kg	100	SW 8260B	03/06/2001	1148
n-Butylbenzene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
sec-Butylbenzene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
tert-Butylbenzene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Carbon Tetrachloride	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Chlorobenzene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Chlorodibromomethane	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Chloroethane	<44	ug/kg	35	SW 8260B	03/06/2001	1148
Chloroform	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Chloromethane	<62	ug/kg	50	SW 8260B	03/06/2001	1148
2-Chlorotoluene	<31	ug/kg	25	SW 8260B	03/06/2001	1148

## ANALYTICAL REPORT

Mr. Dave Trainor  
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 5250 East Terrace Drive  
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03/19/2001  
 Job No: 01.01188  
 Sample No: 428116  
 Account No: 21400  
 Page 58 of 118

JOB DESCRIPTION: 05644-097 NSP/XCEL Ashland  
 PROJECT DESCRIPTION: Sediment Analysis  
 SAMPLE DESCRIPTION: SD-23 2-4 05644-097 NSP/XCEL  
 Ashland, WI  
 Rec'd on ice

Date/Time Taken: 03/01/2001 14:15      Date Received: 03/02/2001

Parameter	Results	Units	Reporting Limit	Method	Date Analyzed	Prep/Run Batch
4-Chlorotoluene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
1,2-Dibromo-3-Chloropropane	<62	ug/kg	50	SW 8260B	03/06/2001	1148
1,2-Dibromoethane (EDB)	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Dibromomethane	<31	ug/kg	25	SW 8260B	03/06/2001	1148
1,2-Dichlorobenzene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
1,3-Dichlorobenzene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
1,4-Dichlorobenzene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Dichlorodifluoromethane	<31	ug/kg	25	SW 8260B	03/06/2001	1148
1,1-Dichloroethane	<31	ug/kg	25	SW 8260B	03/06/2001	1148
1,2-Dichloroethane	<31	ug/kg	25	SW 8260B	03/06/2001	1148
1,1-Dichloroethene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
cis-1,2-Dichloroethene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
trans-1,2-Dichloroethene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
1,2-Dichloropropane	<31	ug/kg	25	SW 8260B	03/06/2001	1148
1,3-Dichloropropane	<31	ug/kg	25	SW 8260B	03/06/2001	1148
2,2-Dichloropropane	<31	ug/kg	25	SW 8260B	03/06/2001	1148
1,1-Dichloropropene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
cis-1,3-Dichloropropene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
trans-1,3-Dichloropropene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Di-isopropyl ether	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Ethylbenzene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Hexachlorobutadiene	<44	ug/kg	35	SW 8260B	03/06/2001	1148
Isopropylbenzene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
p-Isopropyltoluene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Methylene Chloride	<62	ug/kg	50	SW 8260B	03/06/2001	1148
Methyl-t-butyl ether	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Naphthalene	78	ug/kg	25	SW 8260B	03/07/2001	1149
n-Propylbenzene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Styrene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
1,1,1,2-Tetrachloroethane	<31	ug/kg	25	SW 8260B	03/06/2001	1148
1,1,2,2-Tetrachloroethane	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Tetrachloroethene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Toluene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
1,2,3-Trichlorobenzene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
1,2,4-Trichlorobenzene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
1,1,1-Trichloroethane	<31	ug/kg	25	SW 8260B	03/06/2001	1148
1,1,2-Trichloroethane	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Trichloroethene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Trichlorofluoromethane	<31	ug/kg	25	SW 8260B	03/06/2001	1148

## ANALYTICAL REPORT

Mr. Dave Trainor  
 URS/DAMES & MOORE  
 5250 East Terrace Drive  
 Suite I  
 Madison, WI 53718

03/19/2001  
 Job No: 01.01188  
 Sample No: 428116  
 Account No: 21400  
 Page 59 of 118

JOB DESCRIPTION: 05644-097 NSP/XCEL Ashland  
 PROJECT DESCRIPTION: Sediment Analysis  
 SAMPLE DESCRIPTION: SD-23 2-4 05644-097 NSP/XCEL  
 Ashland, WI  
 Rec'd on ice

Date/Time Taken: 03/01/2001 14:15                      Date Received: 03/02/2001

Parameter	Results	Units	Reporting Limit	Method	Date Analyzed	Prep/Run Batch
1,2,3-Trichloropropane	<31	ug/kg	25	SW 8260B	03/06/2001	1148
1,2,4-Trimethylbenzene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
1,3,5-Trimethylbenzene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Vinyl Chloride	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Xylenes, Total	<44	ug/kg	35	SW 8260B	03/06/2001	1148
Surr: Dibromofluoromethane	109.6	%	85-113	SW 8260B	03/06/2001	1148
Surr: Toluene-d8	101.6	%	93-105	SW 8260B	03/06/2001	1148
Surr: Bromofluorobenzene	101.6	%	85-111	SW 8260B	03/06/2001	1148



## ANALYTICAL REPORT

Mr. Dave Trainor  
 URS/DAMES & MOORE  
 5250 East Terrace Drive  
 Suite I  
 Madison, WI 53718

03/19/2001  
 Job No: 01.01188  
 Sample No: 428117  
 Account No: 21400  
 Page 60 of 118

JOB DESCRIPTION: 05644-097 NSP/XCEL Ashland  
 PROJECT DESCRIPTION: Sediment Analysis  
 SAMPLE DESCRIPTION: SD-2-4 05644-097 NSP/XCEL  
 Ashland, WI  
 Rec'd on ice

Date/Time Taken: 02/28/2001 11:45

Date Received: 03/02/2001

Parameter	Results	Units	Reporting Limit	Method	Date Analyzed	Prep/Run Batch
Solids, Total	70.6	%	n/a	SW 5030	03/09/2001	3578
BASE/NEUTRALS-8270 NONAQUEOUS						
Acenaphthene	<0.47	mg/kg	0.33	SW 8270B	03/09/2001	327
Acenaphthylene	<0.47	mg/kg	0.33	SW 8270B	03/09/2001	327
Anthracene	<0.47	mg/kg	0.33	SW 8270B	03/09/2001	327
Benzo(a)anthracene	<0.47	mg/kg	0.33	SW 8270B	03/09/2001	327
Benzo(b)fluoranthene	<0.47	mg/kg	0.33	SW 8270B	03/09/2001	327
Benzo(k)fluoranthene	<0.47	mg/kg	0.33	SW 8270B	03/09/2001	327
Benzo(g,h,i)perylene	<0.47	mg/kg	0.33	SW 8270B	03/09/2001	327
Benzo(a)pyrene	<0.47	mg/kg	0.33	SW 8270B	03/09/2001	327
Chrysene	<0.47	mg/kg	0.33	SW 8270B	03/09/2001	327
Dibenzo(a,h)anthracene	<0.47	mg/kg	0.33	SW 8270B	03/09/2001	327
Fluoranthene	<0.47	mg/kg	0.33	SW 8270B	03/09/2001	327
Fluorene	<0.47	mg/kg	0.33	SW 8270B	03/09/2001	327
Indeno(1,2,3-cd)pyrene	<0.47	mg/kg	0.33	SW 8270B	03/09/2001	327
2-Methylnaphthalene	<0.47	mg/kg	0.33	SW 8270B	03/09/2001	327
Naphthalene	<0.47	mg/kg	0.33	SW 8270B	03/09/2001	327
Phenanthrene	<0.47	mg/kg	0.33	SW 8270B	03/09/2001	327
Pyrene	<0.47	mg/kg	0.33	SW 8270B	03/09/2001	327
Surr: Nitrobenzene-d5	108.0	%	n/a	SW 8270B	03/09/2001	327
Surr: 2-Fluorobiphenyl	101.0	%	n/a	SW 8270B	03/09/2001	327
Surr: Terphenyl-d14	99.4	%	n/a	SW 8270B	03/09/2001	327
VOC - METHANOL - 8260B						
Benzene	<35	ug/kg	25	SW 8260B	03/06/2001	1148
Bromobenzene	<35	ug/kg	25	SW 8260B	03/06/2001	1148
Bromochloromethane	<35	ug/kg	25	SW 8260B	03/06/2001	1148
Bromodichloromethane	<35	ug/kg	25	SW 8260B	03/06/2001	1148
Bromoform	<35	ug/kg	25	SW 8260B	03/06/2001	1148
Bromomethane	<142	ug/kg	100	SW 8260B	03/06/2001	1148
n-Butylbenzene	<35	ug/kg	25	SW 8260B	03/06/2001	1148
sec-Butylbenzene	<35	ug/kg	25	SW 8260B	03/06/2001	1148
tert-Butylbenzene	<35	ug/kg	25	SW 8260B	03/06/2001	1148
Carbon Tetrachloride	<35	ug/kg	25	SW 8260B	03/06/2001	1148
Chlorobenzene	<35	ug/kg	25	SW 8260B	03/06/2001	1148
Chlorodibromomethane	<35	ug/kg	25	SW 8260B	03/06/2001	1148
Chloroethane	<50	ug/kg	35	SW 8260B	03/06/2001	1148
Chloroform	<35	ug/kg	25	SW 8260B	03/06/2001	1148
Chloromethane	<71	ug/kg	50	SW 8260B	03/06/2001	1148
2-Chlorotoluene	<35	ug/kg	25	SW 8260B	03/06/2001	1148

## ANALYTICAL REPORT

Mr. Dave Trainor  
 URS/DAMES & MOORE  
 5250 East Terrace Drive  
 Suite I  
 Madison, WI 53718

03/19/2001  
 Job No: 01.01188  
 Sample No: 428117  
 Account No: 21400  
 Page 61 of 118

JOB DESCRIPTION: 05644-097 NSP/XCEL Ashland  
 PROJECT DESCRIPTION: Sediment Analysis  
 SAMPLE DESCRIPTION: SD-2-4 05644-097 NSP/XCEL  
 Ashland, WI  
 Rec'd on ice

Date/Time Taken: 02/28/2001 11:45

Date Received: 03/02/2001

Parameter	Results	Units	Reporting Limit	Method	Date Analyzed	Prep/Run Batch
4-Chlorotoluene	<35	ug/kg	25	SW 8260B	03/06/2001	1148
1,2-Dibromo-3-Chloropropane	<71	ug/kg	50	SW 8260B	03/06/2001	1148
1,2-Dibromoethane (EDB)	<35	ug/kg	25	SW 8260B	03/06/2001	1148
Dibromomethane	<35	ug/kg	25	SW 8260B	03/06/2001	1148
1,2-Dichlorobenzene	<35	ug/kg	25	SW 8260B	03/06/2001	1148
1,3-Dichlorobenzene	<35	ug/kg	25	SW 8260B	03/06/2001	1148
1,4-Dichlorobenzene	<35	ug/kg	25	SW 8260B	03/06/2001	1148
Dichlorodifluoromethane	<35	ug/kg	25	SW 8260B	03/06/2001	1148
1,1-Dichloroethane	<35	ug/kg	25	SW 8260B	03/06/2001	1148
1,2-Dichloroethane	<35	ug/kg	25	SW 8260B	03/06/2001	1148
1,1-Dichloroethene	<35	ug/kg	25	SW 8260B	03/06/2001	1148
cis-1,2-Dichloroethene	<35	ug/kg	25	SW 8260B	03/06/2001	1148
trans-1,2-Dichloroethene	<35	ug/kg	25	SW 8260B	03/06/2001	1148
1,2-Dichloropropane	<35	ug/kg	25	SW 8260B	03/06/2001	1148
1,3-Dichloropropane	<35	ug/kg	25	SW 8260B	03/06/2001	1148
2,2-Dichloropropane	<35	ug/kg	25	SW 8260B	03/06/2001	1148
1,1-Dichloropropene	<35	ug/kg	25	SW 8260B	03/06/2001	1148
cis-1,3-Dichloropropene	<35	ug/kg	25	SW 8260B	03/06/2001	1148
trans-1,3-Dichloropropene	<35	ug/kg	25	SW 8260B	03/06/2001	1148
Di-isopropyl ether	<35	ug/kg	25	SW 8260B	03/06/2001	1148
Ethylbenzene	<35	ug/kg	25	SW 8260B	03/06/2001	1148
Hexachlorobutadiene	<50	ug/kg	35	SW 8260B	03/06/2001	1148
Isopropylbenzene	<35	ug/kg	25	SW 8260B	03/06/2001	1148
p-Isopropyltoluene	<35	ug/kg	25	SW 8260B	03/06/2001	1148
Methylene Chloride	<71	ug/kg	50	SW 8260B	03/06/2001	1148
Methyl-t-butyl ether	<35	ug/kg	25	SW 8260B	03/06/2001	1148
Naphthalene	<35	ug/kg	25	SW 8260B	03/06/2001	1148
n-Propylbenzene	<35	ug/kg	25	SW 8260B	03/06/2001	1148
Styrene	<35	ug/kg	25	SW 8260B	03/06/2001	1148
1,1,1,2-Tetrachloroethane	<35	ug/kg	25	SW 8260B	03/06/2001	1148
1,1,2,2-Tetrachloroethane	<35	ug/kg	25	SW 8260B	03/06/2001	1148
Tetrachloroethene	<35	ug/kg	25	SW 8260B	03/06/2001	1148
Toluene	<35	ug/kg	25	SW 8260B	03/06/2001	1148
1,2,3-Trichlorobenzene	<35	ug/kg	25	SW 8260B	03/06/2001	1148
1,2,4-Trichlorobenzene	<35	ug/kg	25	SW 8260B	03/06/2001	1148
1,1,1-Trichloroethane	<35	ug/kg	25	SW 8260B	03/06/2001	1148
1,1,2-Trichloroethane	<35	ug/kg	25	SW 8260B	03/06/2001	1148
Trichloroethene	<35	ug/kg	25	SW 8260B	03/06/2001	1148
Trichlorofluoromethane	<35	ug/kg	25	SW 8260B	03/06/2001	1148

## ANALYTICAL REPORT

Mr. Dave Trainor  
 URS/DAMES & MOORE  
 5250 East Terrace Drive  
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 Madison, WI 53718

03/19/2001  
 Job No: 01.01188  
 Sample No: 428117  
 Account No: 21400  
 Page 62 of 118

JOB DESCRIPTION: 05644-097 NSP/XCEL Ashland  
 PROJECT DESCRIPTION: Sediment Analysis  
 SAMPLE DESCRIPTION: SD-2-4 05644-097 NSP/XCEL  
 Ashland, WI  
 Rec'd on ice

Date/Time Taken: 02/28/2001 11:45

Date Received: 03/02/2001

Parameter	Results	Units	Reporting Limit	Method	Date Analyzed	Prep/Run Batch
1,2,3-Trichloropropane	<35	ug/kg	25	SW 8260B	03/06/2001	1148
1,2,4-Trimethylbenzene	<35	ug/kg	25	SW 8260B	03/06/2001	1148
1,3,5-Trimethylbenzene	<35	ug/kg	25	SW 8260B	03/06/2001	1148
Vinyl Chloride	<35	ug/kg	25	SW 8260B	03/06/2001	1148
Xylenes, Total	<50	ug/kg	35	SW 8260B	03/06/2001	1148
Surr: Dibromofluoromethane	113.6	%	85-113	SW 8260B	03/06/2001	1148
Surr: Toluene-d8	100.6	%	93-105	SW 8260B	03/06/2001	1148
Surr: Bromofluorobenzene	100.8	%	85-111	SW 8260B	03/06/2001	1148

## ANALYTICAL REPORT

Mr. Dave Trainor  
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03/19/2001  
 Job No: 01.01188  
 Sample No: 428118  
 Account No: 21400  
 Page 63 of 118

JOB DESCRIPTION: 05644-097 NSP/XCEL Ashland  
 PROJECT DESCRIPTION: Sediment Analysis  
 SAMPLE DESCRIPTION: SD-2-6 05644-097 NSP/XCEL  
 Ashland, WI  
 Rec'd on ice

Date/Time Taken: 02/28/2001 11:50

Date Received: 03/02/2001

Parameter	Results	Units	Reporting Limit	Method	Date Analyzed	Prep/Run Batch
Solids, Total	80.7	%	n/a	SW 5030	03/09/2001	3578
BASE/NEUTRALS-8270 NONAQUEOUS						
Acenaphthene	<0.41	mg/kg	0.33	SW 8270B	03/07/2001	328
Acenaphthylene	<0.41	mg/kg	0.33	SW 8270B	03/07/2001	328
Anthracene	<0.41	mg/kg	0.33	SW 8270B	03/07/2001	328
Benzo(a)anthracene	<0.41	mg/kg	0.33	SW 8270B	03/07/2001	328
Benzo(b)fluoranthene	<0.41	mg/kg	0.33	SW 8270B	03/07/2001	328
Benzo(k)fluoranthene	<0.41	mg/kg	0.33	SW 8270B	03/07/2001	328
Benzo(g,h,i)perylene	<0.41	mg/kg	0.33	SW 8270B	03/07/2001	328
Benzo(a)pyrene	<0.41	mg/kg	0.33	SW 8270B	03/07/2001	328
Chrysene	<0.41	mg/kg	0.33	SW 8270B	03/07/2001	328
Dibenzo(a,h)anthracene	<0.41	mg/kg	0.33	SW 8270B	03/07/2001	328
Fluoranthene	<0.41	mg/kg	0.33	SW 8270B	03/07/2001	328
Fluorene	<0.41	mg/kg	0.33	SW 8270B	03/07/2001	328
Indeno(1,2,3-cd)pyrene	<0.41	mg/kg	0.33	SW 8270B	03/07/2001	328
2-Methylnaphthalene	<0.41	mg/kg	0.33	SW 8270B	03/07/2001	328
Naphthalene	<0.41	mg/kg	0.33	SW 8270B	03/07/2001	328
Phenanthrene	<0.41	mg/kg	0.33	SW 8270B	03/07/2001	328
Pyrene	<0.41	mg/kg	0.33	SW 8270B	03/07/2001	328
Surr: Nitrobenzene-d5	72.8	%	n/a	SW 8270B	03/07/2001	328
Surr: 2-Fluorobiphenyl	70.9	%	n/a	SW 8270B	03/07/2001	328
Surr: Terphenyl-d14	95.9	%	n/a	SW 8270B	03/07/2001	328
VOC - METHANOL - 8260B						
Benzene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Bromobenzene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Bromochloromethane	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Bromodichloromethane	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Bromoform	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Bromomethane	<124	ug/kg	100	SW 8260B	03/06/2001	1148
n-Butylbenzene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
sec-Butylbenzene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
tert-Butylbenzene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Carbon Tetrachloride	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Chlorobenzene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Chlorodibromomethane	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Chloroethane	<43	ug/kg	35	SW 8260B	03/06/2001	1148
Chloroform	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Chloromethane	<62	ug/kg	50	SW 8260B	03/06/2001	1148
2-Chlorotoluene	<31	ug/kg	25	SW 8260B	03/06/2001	1148

## ANALYTICAL REPORT

Mr. Dave Trainor  
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03/19/2001  
 Job No: 01.01188  
 Sample No: 428118  
 Account No: 21400  
 Page 64 of 118

JOB DESCRIPTION: 05644-097 NSP/XCEL Ashland  
 PROJECT DESCRIPTION: Sediment Analysis  
 SAMPLE DESCRIPTION: SD-2-6 05644-097 NSP/XCEL  
 Ashland, WI  
 Rec'd on ice

Date/Time Taken: 02/28/2001 11:50

Date Received: 03/02/2001

Parameter	Results	Units	Reporting Limit	Method	Date Analyzed	Prep/Run Batch
4-Chlorotoluene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
1,2-Dibromo-3-Chloropropane	<62	ug/kg	50	SW 8260B	03/06/2001	1148
1,2-Dibromoethane (EDB)	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Dibromomethane	<31	ug/kg	25	SW 8260B	03/06/2001	1148
1,2-Dichlorobenzene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
1,3-Dichlorobenzene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
1,4-Dichlorobenzene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Dichlorodifluoromethane	<31	ug/kg	25	SW 8260B	03/06/2001	1148
1,1-Dichloroethane	<31	ug/kg	25	SW 8260B	03/06/2001	1148
1,2-Dichloroethane	<31	ug/kg	25	SW 8260B	03/06/2001	1148
1,1-Dichloroethene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
cis-1,2-Dichloroethene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
trans-1,2-Dichloroethene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
1,2-Dichloropropane	<31	ug/kg	25	SW 8260B	03/06/2001	1148
1,3-Dichloropropane	<31	ug/kg	25	SW 8260B	03/06/2001	1148
2,2-Dichloropropane	<31	ug/kg	25	SW 8260B	03/06/2001	1148
1,1-Dichloropropene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
cis-1,3-Dichloropropene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
trans-1,3-Dichloropropene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Di-isopropyl ether	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Ethylbenzene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Hexachlorobutadiene	<43	ug/kg	35	SW 8260B	03/06/2001	1148
Isopropylbenzene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
p-Isopropyltoluene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Methylene Chloride	<62	ug/kg	50	SW 8260B	03/06/2001	1148
Methyl-t-butyl ether	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Naphthalene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
n-Propylbenzene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Styrene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
1,1,1,2-Tetrachloroethane	<31	ug/kg	25	SW 8260B	03/06/2001	1148
1,1,2,2-Tetrachloroethane	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Tetrachloroethene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Toluene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
1,2,3-Trichlorobenzene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
1,2,4-Trichlorobenzene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
1,1,1-Trichloroethane	<31	ug/kg	25	SW 8260B	03/06/2001	1148
1,1,2-Trichloroethane	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Trichloroethene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Trichlorofluoromethane	<31	ug/kg	25	SW 8260B	03/06/2001	1148

## ANALYTICAL REPORT

Mr. Dave Trainor  
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03/19/2001  
 Job No: 01.01188  
 Sample No: 428118  
 Account No: 21400  
 Page 65 of 118

JOB DESCRIPTION: 05644-097 NSP/XCEL Ashland  
 PROJECT DESCRIPTION: Sediment Analysis  
 SAMPLE DESCRIPTION: SD-2-6 05644-097 NSP/XCEL  
 Ashland, WI  
 Rec'd on ice

Date/Time Taken: 02/28/2001 11:50

Date Received: 03/02/2001

Parameter	Results	Units	Reporting Limit	Method	Date Analyzed	Prep/Run Batch
1,2,3-Trichloropropane	<31	ug/kg	25	SW 8260B	03/06/2001	1148
1,2,4-Trimethylbenzene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
1,3,5-Trimethylbenzene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Vinyl Chloride	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Xylenes, Total	<43	ug/kg	35	SW 8260B	03/06/2001	1148
Surr: Dibromofluoromethane	108.4	%	85-113	SW 8260B	03/06/2001	1148
Surr: Toluene-d8	101.0	%	93-105	SW 8260B	03/06/2001	1148
Surr: Bromofluorobenzene	101.4	%	85-111	SW 8260B	03/06/2001	1148

## ANALYTICAL REPORT

Mr. Dave Trainor  
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03/19/2001  
 Job No: 01.01188  
 Sample No: 428119  
 Account No: 21400  
 Page 66 of 118

JOB DESCRIPTION: 05644-097 NSP/XCEL Ashland  
 PROJECT DESCRIPTION: Sediment Analysis  
 SAMPLE DESCRIPTION: SD-2-8 05644-097 NSP/XCEL  
 Ashland, WI  
 Rec'd on ice

Date/Time Taken: 02/28/2001 11:55

Date Received: 03/02/2001

Parameter	Results	Units	Reporting Limit	Method	Date Analyzed	Prep/Run Batch
Solids, Total	81.7	%	n/a	SW 5030	03/09/2001	3578
BASE/NEUTRALS-8270 NONAQUEOUS						
Acenaphthene	<0.40	mg/kg	0.33	SW 8270B	03/07/2001	328
Acenaphthylene	<0.40	mg/kg	0.33	SW 8270B	03/07/2001	328
Anthracene	<0.40	mg/kg	0.33	SW 8270B	03/07/2001	328
Benzo(a)anthracene	<0.40	mg/kg	0.33	SW 8270B	03/07/2001	328
Benzo(b)fluoranthene	<0.40	mg/kg	0.33	SW 8270B	03/07/2001	328
Benzo(k)fluoranthene	<0.40	mg/kg	0.33	SW 8270B	03/07/2001	328
Benzo(g,h,i)perylene	<0.40	mg/kg	0.33	SW 8270B	03/07/2001	328
Benzo(a)pyrene	<0.40	mg/kg	0.33	SW 8270B	03/07/2001	328
Chrysene	<0.40	mg/kg	0.33	SW 8270B	03/07/2001	328
Dibenzo(a,h)anthracene	<0.40	mg/kg	0.33	SW 8270B	03/07/2001	328
Fluoranthene	<0.40	mg/kg	0.33	SW 8270B	03/07/2001	328
Fluorene	<0.40	mg/kg	0.33	SW 8270B	03/07/2001	328
Indeno(1,2,3-cd)pyrene	<0.40	mg/kg	0.33	SW 8270B	03/07/2001	328
2-Methylnaphthalene	<0.40	mg/kg	0.33	SW 8270B	03/07/2001	328
Naphthalene	<0.40	mg/kg	0.33	SW 8270B	03/07/2001	328
Phenanthrene	<0.40	mg/kg	0.33	SW 8270B	03/07/2001	328
Pyrene	<0.40	mg/kg	0.33	SW 8270B	03/07/2001	328
Surr: Nitrobenzene-d5	70.9	%	n/a	SW 8270B	03/07/2001	328
Surr: 2-Fluorobiphenyl	70.7	%	n/a	SW 8270B	03/07/2001	328
Surr: Terphenyl-d14	95.9	%	n/a	SW 8270B	03/07/2001	328
VOC - METHANOL - 8260B						
Benzene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Bromobenzene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Bromochloromethane	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Bromodichloromethane	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Bromoform	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Bromomethane	<122	ug/kg	100	SW 8260B	03/06/2001	1148
n-Butylbenzene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
sec-Butylbenzene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
tert-Butylbenzene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Carbon Tetrachloride	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Chlorobenzene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Chlorodibromomethane	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Chloroethane	<43	ug/kg	35	SW 8260B	03/06/2001	1148
Chloroform	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Chloromethane	<61	ug/kg	50	SW 8260B	03/06/2001	1148
2-Chlorotoluene	<31	ug/kg	25	SW 8260B	03/06/2001	1148

## ANALYTICAL REPORT

Mr. Dave Trainor  
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 5250 East Terrace Drive  
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03/19/2001  
 Job No: 01.01188  
 Sample No: 428119  
 Account No: 21400  
 Page 67 of 118

JOB DESCRIPTION: 05644-097 NSP/XCEL Ashland  
 PROJECT DESCRIPTION: Sediment Analysis  
 SAMPLE DESCRIPTION: SD-2-8 05644-097 NSP/XCEL  
 Ashland, WI  
 Rec'd on ice

Date/Time Taken: 02/28/2001 11:55

Date Received: 03/02/2001

Parameter	Results	Units	Reporting Limit	Method	Date Analyzed	Prep/Run Batch
4-Chlorotoluene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
1,2-Dibromo-3-Chloropropane	<61	ug/kg	50	SW 8260B	03/06/2001	1148
1,2-Dibromoethane (EDB)	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Dibromomethane	<31	ug/kg	25	SW 8260B	03/06/2001	1148
1,2-Dichlorobenzene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
1,3-Dichlorobenzene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
1,4-Dichlorobenzene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Dichlorodifluoromethane	<31	ug/kg	25	SW 8260B	03/06/2001	1148
1,1-Dichloroethane	<31	ug/kg	25	SW 8260B	03/06/2001	1148
1,2-Dichloroethane	<31	ug/kg	25	SW 8260B	03/06/2001	1148
1,1-Dichloroethene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
cis-1,2-Dichloroethene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
trans-1,2-Dichloroethene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
1,2-Dichloropropane	<31	ug/kg	25	SW 8260B	03/06/2001	1148
1,3-Dichloropropane	<31	ug/kg	25	SW 8260B	03/06/2001	1148
2,2-Dichloropropane	<31	ug/kg	25	SW 8260B	03/06/2001	1148
1,1-Dichloropropene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
cis-1,3-Dichloropropene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
trans-1,3-Dichloropropene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Di-isopropyl ether	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Ethylbenzene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Hexachlorobutadiene	<43	ug/kg	35	SW 8260B	03/06/2001	1148
Isopropylbenzene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
p-Isopropyltoluene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Methylene Chloride	<61	ug/kg	50	SW 8260B	03/06/2001	1148
Methyl-t-butyl ether	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Naphthalene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
n-Propylbenzene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Styrene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
1,1,1,2-Tetrachloroethane	<31	ug/kg	25	SW 8260B	03/06/2001	1148
1,1,2,2-Tetrachloroethane	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Tetrachloroethene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Toluene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
1,2,3-Trichlorobenzene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
1,2,4-Trichlorobenzene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
1,1,1-Trichloroethane	<31	ug/kg	25	SW 8260B	03/06/2001	1148
1,1,2-Trichloroethane	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Trichloroethene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Trichlorofluoromethane	<31	ug/kg	25	SW 8260B	03/06/2001	1148



## ANALYTICAL REPORT

Mr. Dave Trainor  
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03/19/2001  
 Job No: 01.01188  
 Sample No: 428119  
 Account No: 21400  
 Page 68 of 118

JOB DESCRIPTION: 05644-097 NSP/XCEL Ashland  
 PROJECT DESCRIPTION: Sediment Analysis  
 SAMPLE DESCRIPTION: SD-2-8 05644-097 NSP/XCEL  
 Ashland, WI  
 Rec'd on ice

Date/Time Taken: 02/28/2001 11:55

Date Received: 03/02/2001

Parameter	Results	Units	Reporting Limit	Method	Date Analyzed	Prep/Run Batch
1,2,3-Trichloropropane	<31	ug/kg	25	SW 8260B	03/06/2001	1148
1,2,4-Trimethylbenzene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
1,3,5-Trimethylbenzene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Vinyl Chloride	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Xylenes, Total	<43	ug/kg	35	SW 8260B	03/06/2001	1148
Surr: Dibromofluoromethane	113.2	%	85-113	SW 8260B	03/06/2001	1148
Surr: Toluene-d8	101.6	%	93-105	SW 8260B	03/06/2001	1148
Surr: Bromofluorobenzene	100.6	%	85-111	SW 8260B	03/06/2001	1148

## ANALYTICAL REPORT

Mr. Dave Trainor  
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03/19/2001  
 Job No: 01.01188  
 Sample No: 428120  
 Account No: 21400  
 Page 69 of 118

JOB DESCRIPTION: 05644-097 NSP/XCEL Ashland  
 PROJECT DESCRIPTION: Sediment Analysis  
 SAMPLE DESCRIPTION: SD-5-4 05644-097 NSP/XCEL  
 Ashland, WI  
 Rec'd on ice

Date/Time Taken: 02/28/2001 15:40

Date Received: 03/02/2001

Parameter	Results	Units	Reporting Limit	Method	Date Analyzed	Prep/Run Batch
Solids, Total	73.0	%	n/a	SW 5030	03/09/2001	3578
BASE/NEUTRALS-8270 NONAQUEOUS						
Acenaphthene	<0.45	mg/kg	0.33	SW 8270B	03/07/2001	328
Acenaphthylene	<0.45	mg/kg	0.33	SW 8270B	03/07/2001	328
Anthracene	<0.45	mg/kg	0.33	SW 8270B	03/07/2001	328
Benzo(a)anthracene	<0.45	mg/kg	0.33	SW 8270B	03/07/2001	328
Benzo(b)fluoranthene	<0.45	mg/kg	0.33	SW 8270B	03/07/2001	328
Benzo(k)fluoranthene	<0.45	mg/kg	0.33	SW 8270B	03/07/2001	328
Benzo(g,h,i)perylene	<0.45	mg/kg	0.33	SW 8270B	03/07/2001	328
Benzo(a)pyrene	<0.45	mg/kg	0.33	SW 8270B	03/07/2001	328
Chrysene	<0.45	mg/kg	0.33	SW 8270B	03/07/2001	328
Dibenzo(a,h)anthracene	<0.45	mg/kg	0.33	SW 8270B	03/07/2001	328
Fluoranthene	<0.45	mg/kg	0.33	SW 8270B	03/07/2001	328
Fluorene	<0.45	mg/kg	0.33	SW 8270B	03/07/2001	328
Indeno(1,2,3-cd)pyrene	<0.45	mg/kg	0.33	SW 8270B	03/07/2001	328
2-Methylnaphthalene	<0.45	mg/kg	0.33	SW 8270B	03/07/2001	328
Naphthalene	<0.45	mg/kg	0.33	SW 8270B	03/07/2001	328
Phenanthrene	<0.45	mg/kg	0.33	SW 8270B	03/07/2001	328
Pyrene	<0.45	mg/kg	0.33	SW 8270B	03/07/2001	328
Surr: Nitrobenzene-d5	102.0	%	n/a	SW 8270B	03/07/2001	328
Surr: 2-Fluorobiphenyl	93.9	%	n/a	SW 8270B	03/07/2001	328
Surr: Terphenyl-d14	92.3	%	n/a	SW 8270B	03/07/2001	328
VOC - METHANOL - 8260B						
Benzene	<34	ug/kg	25	SW 8260B	03/06/2001	1148
Bromobenzene	<34	ug/kg	25	SW 8260B	03/06/2001	1148
Bromochloromethane	<34	ug/kg	25	SW 8260B	03/06/2001	1148
Bromodichloromethane	<34	ug/kg	25	SW 8260B	03/06/2001	1148
Bromoform	<34	ug/kg	25	SW 8260B	03/06/2001	1148
Bromomethane	<137	ug/kg	100	SW 8260B	03/06/2001	1148
n-Butylbenzene	<34	ug/kg	25	SW 8260B	03/06/2001	1148
sec-Butylbenzene	<34	ug/kg	25	SW 8260B	03/06/2001	1148
tert-Butylbenzene	<34	ug/kg	25	SW 8260B	03/06/2001	1148
Carbon Tetrachloride	<34	ug/kg	25	SW 8260B	03/06/2001	1148
Chlorobenzene	<34	ug/kg	25	SW 8260B	03/06/2001	1148
Chlorodibromomethane	<34	ug/kg	25	SW 8260B	03/06/2001	1148
Chloroethane	<48	ug/kg	35	SW 8260B	03/06/2001	1148
Chloroform	<34	ug/kg	25	SW 8260B	03/06/2001	1148
Chloromethane	<68	ug/kg	50	SW 8260B	03/06/2001	1148
2-Chlorotoluene	<34	ug/kg	25	SW 8260B	03/06/2001	1148

## ANALYTICAL REPORT

Mr. Dave Trainor  
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03/19/2001  
 Job No: 01.01188  
 Sample No: 428120  
 Account No: 21400  
 Page 70 of 118

JOB DESCRIPTION: 05644-097 NSP/XCEL Ashland  
 PROJECT DESCRIPTION: Sediment Analysis  
 SAMPLE DESCRIPTION: SD-5-4 05644-097 NSP/XCEL  
 Ashland, WI  
 Rec'd on ice

Date/Time Taken: 02/28/2001 15:40

Date Received: 03/02/2001

Parameter	Results	Units	Reporting Limit	Method	Date Analyzed	Prep/Run Batch
4-Chlorotoluene	<34	ug/kg	25	SW 8260B	03/06/2001	1148
1,2-Dibromo-3-Chloropropane	<68	ug/kg	50	SW 8260B	03/06/2001	1148
1,2-Dibromoethane (EDB)	<34	ug/kg	25	SW 8260B	03/06/2001	1148
Dibromomethane	<34	ug/kg	25	SW 8260B	03/06/2001	1148
1,2-Dichlorobenzene	<34	ug/kg	25	SW 8260B	03/06/2001	1148
1,3-Dichlorobenzene	<34	ug/kg	25	SW 8260B	03/06/2001	1148
1,4-Dichlorobenzene	<34	ug/kg	25	SW 8260B	03/06/2001	1148
Dichlorodifluoromethane	<34	ug/kg	25	SW 8260B	03/06/2001	1148
1,1-Dichloroethane	<34	ug/kg	25	SW 8260B	03/06/2001	1148
1,2-Dichloroethane	<34	ug/kg	25	SW 8260B	03/06/2001	1148
1,1-Dichloroethene	<34	ug/kg	25	SW 8260B	03/06/2001	1148
cis-1,2-Dichloroethene	<34	ug/kg	25	SW 8260B	03/06/2001	1148
trans-1,2-Dichloroethene	<34	ug/kg	25	SW 8260B	03/06/2001	1148
1,2-Dichloropropane	<34	ug/kg	25	SW 8260B	03/06/2001	1148
1,3-Dichloropropane	<34	ug/kg	25	SW 8260B	03/06/2001	1148
2,2-Dichloropropane	<34	ug/kg	25	SW 8260B	03/06/2001	1148
1,1-Dichloropropene	<34	ug/kg	25	SW 8260B	03/06/2001	1148
cis-1,3-Dichloropropene	<34	ug/kg	25	SW 8260B	03/06/2001	1148
trans-1,3-Dichloropropene	<34	ug/kg	25	SW 8260B	03/06/2001	1148
Di-isopropyl ether	<34	ug/kg	25	SW 8260B	03/06/2001	1148
Ethylbenzene	<34	ug/kg	25	SW 8260B	03/06/2001	1148
Hexachlorobutadiene	<48	ug/kg	35	SW 8260B	03/06/2001	1148
Isopropylbenzene	<34	ug/kg	25	SW 8260B	03/06/2001	1148
p-Isopropyltoluene	1,330	ug/kg	25	SW 8260B	03/06/2001	1148
Methylene Chloride	<68	ug/kg	50	SW 8260B	03/06/2001	1148
Methyl-t-butyl ether	<34	ug/kg	25	SW 8260B	03/06/2001	1148
Naphthalene	<34	ug/kg	25	SW 8260B	03/06/2001	1148
n-Propylbenzene	<34	ug/kg	25	SW 8260B	03/06/2001	1148
Styrene	<34	ug/kg	25	SW 8260B	03/06/2001	1148
1,1,1,2-Tetrachloroethane	<34	ug/kg	25	SW 8260B	03/06/2001	1148
1,1,2,2-Tetrachloroethane	<34	ug/kg	25	SW 8260B	03/06/2001	1148
Tetrachloroethene	<34	ug/kg	25	SW 8260B	03/06/2001	1148
Toluene	164	ug/kg	25	SW 8260B	03/06/2001	1148
1,2,3-Trichlorobenzene	<34	ug/kg	25	SW 8260B	03/06/2001	1148
1,2,4-Trichlorobenzene	<34	ug/kg	25	SW 8260B	03/06/2001	1148
1,1,1-Trichloroethane	<34	ug/kg	25	SW 8260B	03/06/2001	1148
1,1,2-Trichloroethane	<34	ug/kg	25	SW 8260B	03/06/2001	1148
Trichloroethene	<34	ug/kg	25	SW 8260B	03/06/2001	1148
Trichlorofluoromethane	<34	ug/kg	25	SW 8260B	03/06/2001	1148

## ANALYTICAL REPORT

Mr. Dave Trainor  
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 5250 East Terrace Drive  
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03/19/2001  
 Job No: 01.01188  
 Sample No: 428120  
 Account No: 21400  
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JOB DESCRIPTION: 05644-097 NSP/XCEL Ashland  
 PROJECT DESCRIPTION: Sediment Analysis  
 SAMPLE DESCRIPTION: SD-5-4 05644-097 NSP/XCEL  
 Ashland, WI  
 Rec'd on ice

Date/Time Taken: 02/28/2001 15:40

Date Received: 03/02/2001

Parameter	Results	Units	Reporting Limit	Method	Date Analyzed	Prep/Run Batch
1,2,3-Trichloropropane	<34	ug/kg	25	SW 8260B	03/06/2001	1148
1,2,4-Trimethylbenzene	<34	ug/kg	25	SW 8260B	03/06/2001	1148
1,3,5-Trimethylbenzene	<34	ug/kg	25	SW 8260B	03/06/2001	1148
Vinyl Chloride	<34	ug/kg	25	SW 8260B	03/06/2001	1148
Xylenes, Total	<48	ug/kg	35	SW 8260B	03/06/2001	1148
Surr: Dibromofluoromethane	114.0	%	85-113	SW 8260B	03/06/2001	1148
Surr: Toluene-d8	101.0	%	93-105	SW 8260B	03/06/2001	1148
Surr: Bromofluorobenzene	102.6	%	85-111	SW 8260B	03/06/2001	1148

## ANALYTICAL REPORT

Mr. Dave Trainor  
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03/19/2001  
 Job No: 01.01188  
 Sample No: 428121  
 Account No: 21400  
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JOB DESCRIPTION: 05644-097 NSP/XCEL Ashland  
 PROJECT DESCRIPTION: Sediment Analysis  
 SAMPLE DESCRIPTION: SD-5-6 05644-097 NSP/XCEL  
 Ashland, WI  
 Rec'd on ice

Date/Time Taken: 02/28/2001 15:45

Date Received: 03/02/2001

Parameter	Results	Units	Reporting Limit	Method	Date Analyzed	Prep/Run Batch
Solids, Total	75.2	%	n/a	SW 5030	03/09/2001	3578
BASE/NEUTRALS-8270 NONAQUEOUS						
Acenaphthene	<0.44	mg/kg	0.33	SW 8270B	03/08/2001	326
Acenaphthylene	<0.44	mg/kg	0.33	SW 8270B	03/08/2001	326
Anthracene	<0.44	mg/kg	0.33	SW 8270B	03/08/2001	326
Benzo (a) anthracene	<0.44	mg/kg	0.33	SW 8270B	03/08/2001	326
Benzo (b) fluoranthene	<0.44	mg/kg	0.33	SW 8270B	03/08/2001	326
Benzo (k) fluoranthene	<0.44	mg/kg	0.33	SW 8270B	03/08/2001	326
Benzo (g, h, i) perylene	<0.44	mg/kg	0.33	SW 8270B	03/08/2001	326
Benzo (a) pyrene	<0.44	mg/kg	0.33	SW 8270B	03/08/2001	326
Chrysene	<0.44	mg/kg	0.33	SW 8270B	03/08/2001	326
Dibenzo (a, h) anthracene	<0.44	mg/kg	0.33	SW 8270B	03/08/2001	326
Fluoranthene	<0.44	mg/kg	0.33	SW 8270B	03/08/2001	326
Fluorene	<0.44	mg/kg	0.33	SW 8270B	03/08/2001	326
Indeno (1, 2, 3-cd) pyrene	<0.44	mg/kg	0.33	SW 8270B	03/08/2001	326
2-Methylnaphthalene	<0.44	mg/kg	0.33	SW 8270B	03/08/2001	326
Naphthalene	<0.44	mg/kg	0.33	SW 8270B	03/08/2001	326
Phenanthrene	<0.44	mg/kg	0.33	SW 8270B	03/08/2001	326
Pyrene	<0.44	mg/kg	0.33	SW 8270B	03/08/2001	326
Surr: Nitrobenzene-d5	69.6	%	n/a	SW 8270B	03/08/2001	326
Surr: 2-Fluorobiphenyl	66.9	%	n/a	SW 8270B	03/08/2001	326
Surr: Terphenyl-d14	97.3	%	n/a	SW 8270B	03/08/2001	326
VOC - METHANOL - 8260B						
Benzene	<33	ug/kg	25	SW 8260B	03/06/2001	1148
Bromobenzene	<33	ug/kg	25	SW 8260B	03/06/2001	1148
Bromochloromethane	<33	ug/kg	25	SW 8260B	03/06/2001	1148
Bromodichloromethane	<33	ug/kg	25	SW 8260B	03/06/2001	1148
Bromoform	<33	ug/kg	25	SW 8260B	03/06/2001	1148
Bromomethane	<133	ug/kg	100	SW 8260B	03/06/2001	1148
n-Butylbenzene	<33	ug/kg	25	SW 8260B	03/06/2001	1148
sec-Butylbenzene	<33	ug/kg	25	SW 8260B	03/06/2001	1148
tert-Butylbenzene	<33	ug/kg	25	SW 8260B	03/06/2001	1148
Carbon Tetrachloride	<33	ug/kg	25	SW 8260B	03/06/2001	1148
Chlorobenzene	<33	ug/kg	25	SW 8260B	03/06/2001	1148
Chlorodibromomethane	<33	ug/kg	25	SW 8260B	03/06/2001	1148
Chloroethane	<47	ug/kg	35	SW 8260B	03/06/2001	1148
Chloroform	<33	ug/kg	25	SW 8260B	03/06/2001	1148
Chloromethane	<66	ug/kg	50	SW 8260B	03/06/2001	1148
2-Chlorotoluene	<33	ug/kg	25	SW 8260B	03/06/2001	1148

## ANALYTICAL REPORT

Mr. Dave Trainor  
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03/19/2001  
 Job No: 01.01188  
 Sample No: 428121  
 Account No: 21400  
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JOB DESCRIPTION: 05644-097 NSP/XCEL Ashland  
 PROJECT DESCRIPTION: Sediment Analysis  
 SAMPLE DESCRIPTION: SD-5-6 05644-097 NSP/XCEL  
 Ashland, WI  
 Rec'd on ice

Date/Time Taken: 02/28/2001 15:45

Date Received: 03/02/2001

Parameter	Results	Units	Reporting Limit	Method	Date Analyzed	Prep/Run Batch
4-Chlorotoluene	<33	ug/kg	25	SW 8260B	03/06/2001	1148
1,2-Dibromo-3-Chloropropane	<66	ug/kg	50	SW 8260B	03/06/2001	1148
1,2-Dibromoethane (EDB)	<33	ug/kg	25	SW 8260B	03/06/2001	1148
Dibromomethane	<33	ug/kg	25	SW 8260B	03/06/2001	1148
1,2-Dichlorobenzene	<33	ug/kg	25	SW 8260B	03/06/2001	1148
1,3-Dichlorobenzene	<33	ug/kg	25	SW 8260B	03/06/2001	1148
1,4-Dichlorobenzene	<33	ug/kg	25	SW 8260B	03/06/2001	1148
Dichlorodifluoromethane	<33	ug/kg	25	SW 8260B	03/06/2001	1148
1,1-Dichloroethane	<33	ug/kg	25	SW 8260B	03/06/2001	1148
1,2-Dichloroethane	<33	ug/kg	25	SW 8260B	03/06/2001	1148
1,1-Dichloroethene	<33	ug/kg	25	SW 8260B	03/06/2001	1148
cis-1,2-Dichloroethene	<33	ug/kg	25	SW 8260B	03/06/2001	1148
trans-1,2-Dichloroethene	<33	ug/kg	25	SW 8260B	03/06/2001	1148
1,2-Dichloropropane	<33	ug/kg	25	SW 8260B	03/06/2001	1148
1,3-Dichloropropane	<33	ug/kg	25	SW 8260B	03/06/2001	1148
2,2-Dichloropropane	<33	ug/kg	25	SW 8260B	03/06/2001	1148
1,1-Dichloropropene	<33	ug/kg	25	SW 8260B	03/06/2001	1148
cis-1,3-Dichloropropene	<33	ug/kg	25	SW 8260B	03/06/2001	1148
trans-1,3-Dichloropropene	<33	ug/kg	25	SW 8260B	03/06/2001	1148
Di-isopropyl ether	<33	ug/kg	25	SW 8260B	03/06/2001	1148
Ethylbenzene	<33	ug/kg	25	SW 8260B	03/06/2001	1148
Hexachlorobutadiene	<47	ug/kg	35	SW 8260B	03/06/2001	1148
Isopropylbenzene	<33	ug/kg	25	SW 8260B	03/06/2001	1148
p-Isopropyltoluene	<33	ug/kg	25	SW 8260B	03/06/2001	1148
Methylene Chloride	<66	ug/kg	50	SW 8260B	03/06/2001	1148
Methyl-t-butyl ether	<33	ug/kg	25	SW 8260B	03/06/2001	1148
Naphthalene	<33	ug/kg	25	SW 8260B	03/06/2001	1148
n-Propylbenzene	<33	ug/kg	25	SW 8260B	03/06/2001	1148
Styrene	<33	ug/kg	25	SW 8260B	03/06/2001	1148
1,1,1,2-Tetrachloroethane	<33	ug/kg	25	SW 8260B	03/06/2001	1148
1,1,2,2-Tetrachloroethane	<33	ug/kg	25	SW 8260B	03/06/2001	1148
Tetrachloroethene	<33	ug/kg	25	SW 8260B	03/06/2001	1148
Toluene	<33	ug/kg	25	SW 8260B	03/06/2001	1148
1,2,3-Trichlorobenzene	<33	ug/kg	25	SW 8260B	03/06/2001	1148
1,2,4-Trichlorobenzene	<33	ug/kg	25	SW 8260B	03/06/2001	1148
1,1,1-Trichloroethane	<33	ug/kg	25	SW 8260B	03/06/2001	1148
1,1,2-Trichloroethane	<33	ug/kg	25	SW 8260B	03/06/2001	1148
Trichloroethene	<33	ug/kg	25	SW 8260B	03/06/2001	1148
Trichlorofluoromethane	<33	ug/kg	25	SW 8260B	03/06/2001	1148

## ANALYTICAL REPORT

Mr. Dave Trainor  
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 5250 East Terrace Drive  
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03/19/2001  
 Job No: 01.01188  
 Sample No: 428121  
 Account No: 21400  
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JOB DESCRIPTION: 05644-097 NSP/XCEL Ashland  
 PROJECT DESCRIPTION: Sediment Analysis  
 SAMPLE DESCRIPTION: SD-5-6 05644-097 NSP/XCEL  
 Ashland, WI  
 Rec'd on ice

Date/Time Taken: 02/28/2001 15:45

Date Received: 03/02/2001

Parameter	Results	Units	Reporting Limit	Method	Date Analyzed	Prep/Run Batch
1,2,3-Trichloropropane	<33	ug/kg	25	SW 8260B	03/06/2001	1148
1,2,4-Trimethylbenzene	<33	ug/kg	25	SW 8260B	03/06/2001	1148
1,3,5-Trimethylbenzene	<33	ug/kg	25	SW 8260B	03/06/2001	1148
Vinyl Chloride	<33	ug/kg	25	SW 8260B	03/06/2001	1148
Xylenes, Total	<47	ug/kg	35	SW 8260B	03/06/2001	1148
Surr: Dibromofluoromethane	96.4	%	85-113	SW 8260B	03/06/2001	1148
Surr: Toluene-d8	101.2	%	93-105	SW 8260B	03/06/2001	1148
Surr: Bromofluorobenzene	102.4	%	85-111	SW 8260B	03/06/2001	1148

## ANALYTICAL REPORT

Mr. Dave Trainor  
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03/19/2001  
 Job No: 01.01188  
 Sample No: 428122  
 Account No: 21400  
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JOB DESCRIPTION: 05644-097 NSP/XCEL Ashland  
 PROJECT DESCRIPTION: Sediment Analysis  
 SAMPLE DESCRIPTION: SD-5-8 05644-097 NSP/XCEL  
 Ashland, WI  
 Rec'd on ice

Date/Time Taken: 02/28/2001 15:50

Date Received: 03/02/2001

Parameter	Results	Units	Reporting Limit	Method	Date Analyzed	Prep/Run Batch
Solids, Total	80.7	%	n/a	SW 5030	03/09/2001	3578
BASE/NEUTRALS-8270 NONAQUEOUS						
Acenaphthene	<0.41	mg/kg	0.33	SW 8270B	03/08/2001	326
Acenaphthylene	<0.41	mg/kg	0.33	SW 8270B	03/08/2001	326
Anthracene	<0.41	mg/kg	0.33	SW 8270B	03/08/2001	326
Benzo (a) anthracene	<0.41	mg/kg	0.33	SW 8270B	03/08/2001	326
Benzo (b) fluoranthene	<0.41	mg/kg	0.33	SW 8270B	03/08/2001	326
Benzo (k) fluoranthene	<0.41	mg/kg	0.33	SW 8270B	03/08/2001	326
Benzo (g, h, i) perylene	<0.41	mg/kg	0.33	SW 8270B	03/08/2001	326
Benzo (a) pyrene	<0.41	mg/kg	0.33	SW 8270B	03/08/2001	326
Chrysene	<0.41	mg/kg	0.33	SW 8270B	03/08/2001	326
Dibenzo (a, h) anthracene	<0.41	mg/kg	0.33	SW 8270B	03/08/2001	326
Fluoranthene	<0.41	mg/kg	0.33	SW 8270B	03/08/2001	326
Fluorene	<0.41	mg/kg	0.33	SW 8270B	03/08/2001	326
Indeno (1, 2, 3-cd) pyrene	<0.41	mg/kg	0.33	SW 8270B	03/08/2001	326
2-Methylnaphthalene	<0.41	mg/kg	0.33	SW 8270B	03/08/2001	326
Naphthalene	<0.41	mg/kg	0.33	SW 8270B	03/08/2001	326
Phenanthrene	<0.41	mg/kg	0.33	SW 8270B	03/08/2001	326
Pyrene	<0.41	mg/kg	0.33	SW 8270B	03/08/2001	326
Surr: Nitrobenzene-d5	68.7	%	n/a	SW 8270B	03/08/2001	326
Surr: 2-Fluorobiphenyl	65.0	%	n/a	SW 8270B	03/08/2001	326
Surr: Terphenyl-d14	96.0	%	n/a	SW 8270B	03/08/2001	326
VOC - METHANOL - 8260B						
Benzene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Bromobenzene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Bromochloromethane	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Bromodichloromethane	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Bromoform	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Bromomethane	<124	ug/kg	100	SW 8260B	03/06/2001	1148
n-Butylbenzene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
sec-Butylbenzene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
tert-Butylbenzene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Carbon Tetrachloride	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Chlorobenzene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Chlorodibromomethane	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Chloroethane	<43	ug/kg	35	SW 8260B	03/06/2001	1148
Chloroform	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Chloromethane	<62	ug/kg	50	SW 8260B	03/06/2001	1148
2-Chlorotoluene	<31	ug/kg	25	SW 8260B	03/06/2001	1148



## ANALYTICAL REPORT

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03/19/2001  
 Job No: 01.01188  
 Sample No: 428122  
 Account No: 21400  
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JOB DESCRIPTION: 05644-097 NSP/XCEL Ashland  
 PROJECT DESCRIPTION: Sediment Analysis  
 SAMPLE DESCRIPTION: SD-5-8 05644-097 NSP/XCEL  
 Ashland, WI  
 Rec'd on ice

Date/Time Taken: 02/28/2001 15:50

Date Received: 03/02/2001

Parameter	Results	Units	Reporting Limit	Method	Date Analyzed	Prep/Run Batch
4-Chlorotoluene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
1,2-Dibromo-3-Chloropropane	<62	ug/kg	50	SW 8260B	03/06/2001	1148
1,2-Dibromoethane (EDB)	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Dibromomethane	<31	ug/kg	25	SW 8260B	03/06/2001	1148
1,2-Dichlorobenzene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
1,3-Dichlorobenzene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
1,4-Dichlorobenzene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Dichlorodifluoromethane	<31	ug/kg	25	SW 8260B	03/06/2001	1148
1,1-Dichloroethane	<31	ug/kg	25	SW 8260B	03/06/2001	1148
1,2-Dichloroethane	<31	ug/kg	25	SW 8260B	03/06/2001	1148
1,1-Dichloroethane	<31	ug/kg	25	SW 8260B	03/06/2001	1148
cis-1,2-Dichloroethene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
trans-1,2-Dichloroethene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
1,2-Dichloropropane	<31	ug/kg	25	SW 8260B	03/06/2001	1148
1,3-Dichloropropane	<31	ug/kg	25	SW 8260B	03/06/2001	1148
2,2-Dichloropropane	<31	ug/kg	25	SW 8260B	03/06/2001	1148
1,1-Dichloropropene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
cis-1,3-Dichloropropene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
trans-1,3-Dichloropropene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Di-isopropyl ether	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Ethylbenzene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Hexachlorobutadiene	<43	ug/kg	35	SW 8260B	03/06/2001	1148
Isopropylbenzene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
p-Isopropyltoluene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Methylene Chloride	<62	ug/kg	50	SW 8260B	03/06/2001	1148
Methyl-t-butyl ether	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Naphthalene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
n-Propylbenzene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Styrene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
1,1,1,2-Tetrachloroethane	<31	ug/kg	25	SW 8260B	03/06/2001	1148
1,1,2,2-Tetrachloroethane	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Tetrachloroethene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Toluene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
1,2,3-Trichlorobenzene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
1,2,4-Trichlorobenzene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
1,1,1-Trichloroethane	<31	ug/kg	25	SW 8260B	03/06/2001	1148
1,1,2-Trichloroethane	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Trichloroethene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Trichlorofluoromethane	<31	ug/kg	25	SW 8260B	03/06/2001	1148

## ANALYTICAL REPORT

Mr. Dave Trainor  
 URS/DAMES & MOORE  
 5250 East Terrace Drive  
 Suite I  
 Madison, WI 53718

03/19/2001  
 Job No: 01.01188  
 Sample No: 428122  
 Account No: 21400  
 Page 77 of 118

JOB DESCRIPTION: 05644-097 NSP/XCEL Ashland  
 PROJECT DESCRIPTION: Sediment Analysis  
 SAMPLE DESCRIPTION: SD-5-8 05644-097 NSP/XCEL  
 Ashland, WI  
 Rec'd on ice

Date/Time Taken: 02/28/2001 15:50

Date Received: 03/02/2001

Parameter	Results	Units	Reporting Limit	Method	Date Analyzed	Prep/Run Batch
1,2,3-Trichloropropane	<31	ug/kg	25	SW 8260B	03/06/2001	1148
1,2,4-Trimethylbenzene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
1,3,5-Trimethylbenzene	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Vinyl Chloride	<31	ug/kg	25	SW 8260B	03/06/2001	1148
Xylenes, Total	<43	ug/kg	35	SW 8260B	03/06/2001	1148
Surr: Dibromofluoromethane	105.4	%	85-113	SW 8260B	03/06/2001	1148
Surr: Toluene-d8	100.4	%	93-105	SW 8260B	03/06/2001	1148
Surr: Bromofluorobenzene	102.0	%	85-111	SW 8260B	03/06/2001	1148

## ANALYTICAL REPORT

Mr. Dave Trainor  
 URS/DAMES & MOORE  
 5250 East Terrace Drive  
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 Madison, WI 53718

03/19/2001  
 Job No: 01.01188  
 Sample No: 428123  
 Account No: 21400  
 Page 78 of 118

JOB DESCRIPTION: 05644-097 NSP/XCEL Ashland  
 PROJECT DESCRIPTION: Sediment Analysis  
 SAMPLE DESCRIPTION: SD-13-4 05644-097 NSP/XCEL  
 Ashland, WI  
 Rec'd on ice

Date/Time Taken: 02/28/2001 16:35

Date Received: 03/02/2001

Parameter	Results	Units	Reporting Limit	Method	Date Analyzed	Prep/Run Batch
Solids, Total	79.8	%	n/a	SW 5030	03/09/2001	3579
BASE/NEUTRALS-8270 NONAQUEOUS						
Acenaphthene	<0.41	mg/kg	0.33	SW 8270B	03/08/2001	326
Acenaphthylene	<0.41	mg/kg	0.33	SW 8270B	03/08/2001	326
Anthracene	<0.41	mg/kg	0.33	SW 8270B	03/08/2001	326
Benzo (a) anthracene	<0.41	mg/kg	0.33	SW 8270B	03/08/2001	326
Benzo (b) fluoranthene	<0.41	mg/kg	0.33	SW 8270B	03/08/2001	326
Benzo (k) fluoranthene	<0.41	mg/kg	0.33	SW 8270B	03/08/2001	326
Benzo (g, h, i) perylene	<0.41	mg/kg	0.33	SW 8270B	03/08/2001	326
Benzo (a) pyrene	<0.41	mg/kg	0.33	SW 8270B	03/08/2001	326
Chrysene	<0.41	mg/kg	0.33	SW 8270B	03/08/2001	326
Dibenzo (a, h) anthracene	<0.41	mg/kg	0.33	SW 8270B	03/08/2001	326
Fluoranthene	<0.41	mg/kg	0.33	SW 8270B	03/08/2001	326
Fluorene	<0.41	mg/kg	0.33	SW 8270B	03/08/2001	326
Indeno (1, 2, 3-cd) pyrene	<0.41	mg/kg	0.33	SW 8270B	03/08/2001	326
2-Methylnaphthalene	<0.41	mg/kg	0.33	SW 8270B	03/08/2001	326
Naphthalene	<0.41	mg/kg	0.33	SW 8270B	03/08/2001	326
Phenanthrene	<0.41	mg/kg	0.33	SW 8270B	03/08/2001	326
Pyrene	<0.41	mg/kg	0.33	SW 8270B	03/08/2001	326
Surr: Nitrobenzene-d5	86.0	%	n/a	SW 8270B	03/08/2001	326
Surr: 2-Fluorobiphenyl	85.6	%	n/a	SW 8270B	03/08/2001	326
Surr: Terphenyl-d14	97.1	%	n/a	SW 8270B	03/08/2001	326
VOC - METHANOL - 8260B						
Benzene	<31	ug/kg	25	SW 8260B	03/06/2001	1147
Bromobenzene	<31	ug/kg	25	SW 8260B	03/06/2001	1147
Bromochloromethane	<31	ug/kg	25	SW 8260B	03/06/2001	1147
Bromodichloromethane	<31	ug/kg	25	SW 8260B	03/06/2001	1147
Bromoform	<31	ug/kg	25	SW 8260B	03/06/2001	1147
Bromomethane	<125	ug/kg	100	SW 8260B	03/06/2001	1147
n-Butylbenzene	<31	ug/kg	25	SW 8260B	03/06/2001	1147
sec-Butylbenzene	<31	ug/kg	25	SW 8260B	03/06/2001	1147
tert-Butylbenzene	<31	ug/kg	25	SW 8260B	03/06/2001	1147
Carbon Tetrachloride	<31	ug/kg	25	SW 8260B	03/06/2001	1147
Chlorobenzene	<31	ug/kg	25	SW 8260B	03/06/2001	1147
Chlorodibromomethane	<31	ug/kg	25	SW 8260B	03/06/2001	1147
Chloroethane	<44	ug/kg	35	SW 8260B	03/06/2001	1147
Chloroform	<31	ug/kg	25	SW 8260B	03/06/2001	1147
Chloromethane	<63	ug/kg	50	SW 8260B	03/06/2001	1147
2-Chlorotoluene	<31	ug/kg	25	SW 8260B	03/06/2001	1147

## ANALYTICAL REPORT

Mr. Dave Trainor  
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 5250 East Terrace Drive  
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03/19/2001  
 Job No: 01.01188  
 Sample No: 428123  
 Account No: 21400  
 Page 79 of 118

JOB DESCRIPTION: 05644-097 NSP/XCEL Ashland  
 PROJECT DESCRIPTION: Sediment Analysis  
 SAMPLE DESCRIPTION: SD-13-4 05644-097 NSP/XCEL  
 Ashland, WI  
 Rec'd on ice

Date/Time Taken: 02/28/2001 16:35      Date Received: 03/02/2001

Parameter	Results	Units	Reporting Limit	Method	Date Analyzed	Prep/Run Batch
4-Chlorotoluene	<31	ug/kg	25	SW 8260B	03/06/2001	1147
1,2-Dibromo-3-Chloropropane	<63	ug/kg	50	SW 8260B	03/06/2001	1147
1,2-Dibromoethane (EDB)	<31	ug/kg	25	SW 8260B	03/06/2001	1147
Dibromomethane	<31	ug/kg	25	SW 8260B	03/06/2001	1147
1,2-Dichlorobenzene	<31	ug/kg	25	SW 8260B	03/06/2001	1147
1,3-Dichlorobenzene	<31	ug/kg	25	SW 8260B	03/06/2001	1147
1,4-Dichlorobenzene	<31	ug/kg	25	SW 8260B	03/06/2001	1147
Dichlorodifluoromethane	<31	ug/kg	25	SW 8260B	03/06/2001	1147
1,1-Dichloroethane	<31	ug/kg	25	SW 8260B	03/06/2001	1147
1,2-Dichloroethane	<31	ug/kg	25	SW 8260B	03/06/2001	1147
1,1-Dichloroethene	<31	ug/kg	25	SW 8260B	03/06/2001	1147
cis-1,2-Dichloroethene	<31	ug/kg	25	SW 8260B	03/06/2001	1147
trans-1,2-Dichloroethene	<31	ug/kg	25	SW 8260B	03/06/2001	1147
1,2-Dichloropropane	<31	ug/kg	25	SW 8260B	03/06/2001	1147
1,3-Dichloropropane	<31	ug/kg	25	SW 8260B	03/06/2001	1147
2,2-Dichloropropane	<31	ug/kg	25	SW 8260B	03/06/2001	1147
1,1-Dichloropropene	<31	ug/kg	25	SW 8260B	03/06/2001	1147
cis-1,3-Dichloropropene	<31	ug/kg	25	SW 8260B	03/06/2001	1147
trans-1,3-Dichloropropene	<31	ug/kg	25	SW 8260B	03/06/2001	1147
Di-isopropyl ether	<31	ug/kg	25	SW 8260B	03/06/2001	1147
Ethylbenzene	<31	ug/kg	25	SW 8260B	03/06/2001	1147
Hexachlorobutadiene	<44	ug/kg	35	SW 8260B	03/06/2001	1147
Isopropylbenzene	<31	ug/kg	25	SW 8260B	03/06/2001	1147
p-Isopropyltoluene	<31	ug/kg	25	SW 8260B	03/06/2001	1147
Methylene Chloride	<63	ug/kg	50	SW 8260B	03/06/2001	1147
Methyl-t-butyl ether	<31	ug/kg	25	SW 8260B	03/06/2001	1147
Naphthalene	<31	ug/kg	25	SW 8260B	03/06/2001	1147
n-Propylbenzene	<31	ug/kg	25	SW 8260B	03/06/2001	1147
Styrene	<31	ug/kg	25	SW 8260B	03/06/2001	1147
1,1,1,2-Tetrachloroethane	<31	ug/kg	25	SW 8260B	03/06/2001	1147
1,1,2,2-Tetrachloroethane	<31	ug/kg	25	SW 8260B	03/06/2001	1147
Tetrachloroethene	<31	ug/kg	25	SW 8260B	03/06/2001	1147
Toluene	<31	ug/kg	25	SW 8260B	03/06/2001	1147
1,2,3-Trichlorobenzene	<31	ug/kg	25	SW 8260B	03/06/2001	1147
1,2,4-Trichlorobenzene	<31	ug/kg	25	SW 8260B	03/06/2001	1147
1,1,1-Trichloroethane	<31	ug/kg	25	SW 8260B	03/06/2001	1147
1,1,2-Trichloroethane	<31	ug/kg	25	SW 8260B	03/06/2001	1147
Trichloroethene	<31	ug/kg	25	SW 8260B	03/06/2001	1147
Trichlorofluoromethane	<31	ug/kg	25	SW 8260B	03/06/2001	1147

## ANALYTICAL REPORT

Mr. Dave Trainor  
 URS/DAMES & MOORE  
 5250 East Terrace Drive  
 Suite I  
 Madison, WI 53718

03/19/2001  
 Job No: 01.01188  
 Sample No: 428123  
 Account No: 21400  
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JOB DESCRIPTION: 05644-097 NSP/XCEL Ashland  
 PROJECT DESCRIPTION: Sediment Analysis  
 SAMPLE DESCRIPTION: SD-13-4 05644-097 NSP/XCEL  
 Ashland, WI  
 Rec'd on ice

Date/Time Taken: 02/28/2001 16:35

Date Received: 03/02/2001

Parameter	Results	Units	Reporting Limit	Method	Date Analyzed	Prep/Run Batch
1,2,3-Trichloropropane	<31	ug/kg	25	SW 8260B	03/06/2001	1147
1,2,4-Trimethylbenzene	<31	ug/kg	25	SW 8260B	03/06/2001	1147
1,3,5-Trimethylbenzene	<31	ug/kg	25	SW 8260B	03/06/2001	1147
Vinyl Chloride	<31	ug/kg	25	SW 8260B	03/06/2001	1147
Xylenes, Total	<44	ug/kg	35	SW 8260B	03/06/2001	1147
Surr: Dibromofluoromethane	97.4	%	85-113	SW 8260B	03/06/2001	1147
Surr: Toluene-d8	98.0	%	93-105	SW 8260B	03/06/2001	1147
Surr: Bromofluorobenzene	96.4	%	85-111	SW 8260B	03/06/2001	1147

## ANALYTICAL REPORT

Mr. Dave Trainor  
 URS/DAMES & MOORE  
 5250 East Terrace Drive  
 Suite I  
 Madison, WI 53718

03/19/2001  
 Job No: 01.01188  
 Sample No: 428124  
 Account No: 21400  
 Page 81 of 118

JOB DESCRIPTION: 05644-097 NSP/XCEL Ashland  
 PROJECT DESCRIPTION: Sediment Analysis  
 SAMPLE DESCRIPTION: SD-1-2 05644-097 NSP/XCEL  
 Ashland, WI  
 Rec'd on ice

Date/Time Taken: 02/28/2001 16:50

Date Received: 03/02/2001

Parameter	Results	Units	Reporting Limit	Method	Date Analyzed	Prep/Run Batch
Solids, Total	77.5	%	n/a	SW 5030	03/09/2001	3579
BASE/NEUTRALS-8270 NONAQUEOUS						
Acenaphthene	<0.43	mg/kg	0.33	SW 8270B	03/08/2001	326
Acenaphthylene	<0.43	mg/kg	0.33	SW 8270B	03/08/2001	326
Anthracene	<0.43	mg/kg	0.33	SW 8270B	03/08/2001	326
Benzo(a)anthracene	<0.43	mg/kg	0.33	SW 8270B	03/08/2001	326
Benzo(b)fluoranthene	<0.43	mg/kg	0.33	SW 8270B	03/08/2001	326
Benzo(k)fluoranthene	<0.43	mg/kg	0.33	SW 8270B	03/08/2001	326
Benzo(g,h,i)perylene	<0.43	mg/kg	0.33	SW 8270B	03/08/2001	326
Benzo(a)pyrene	<0.43	mg/kg	0.33	SW 8270B	03/08/2001	326
Chrysene	<0.43	mg/kg	0.33	SW 8270B	03/08/2001	326
Dibenz(a,h)anthracene	<0.43	mg/kg	0.33	SW 8270B	03/08/2001	326
Fluoranthene	<0.43	mg/kg	0.33	SW 8270B	03/08/2001	326
Fluorene	<0.43	mg/kg	0.33	SW 8270B	03/08/2001	326
Indeno(1,2,3-cd)pyrene	<0.43	mg/kg	0.33	SW 8270B	03/08/2001	326
2-Methylnaphthalene	<0.43	mg/kg	0.33	SW 8270B	03/08/2001	326
Naphthalene	<0.43	mg/kg	0.33	SW 8270B	03/08/2001	326
Phenanthrene	<0.43	mg/kg	0.33	SW 8270B	03/08/2001	326
Pyrene	<0.43	mg/kg	0.33	SW 8270B	03/08/2001	326
Surr: Nitrobenzene-d5	87.6	%	n/a	SW 8270B	03/08/2001	326
Surr: 2-Fluorobiphenyl	92.4	%	n/a	SW 8270B	03/08/2001	326
Surr: Terphenyl-d14	90.7	%	n/a	SW 8270B	03/08/2001	326
VOC - METHANOL - 8260B						
Benzene	<32	ug/kg	25	SW 8260B	03/06/2001	1147
Bromobenzene	<32	ug/kg	25	SW 8260B	03/06/2001	1147
Bromochloromethane	<32	ug/kg	25	SW 8260B	03/06/2001	1147
Bromodichloromethane	<32	ug/kg	25	SW 8260B	03/06/2001	1147
Bromoform	<32	ug/kg	25	SW 8260B	03/06/2001	1147
Bromomethane	<129	ug/kg	100	SW 8260B	03/06/2001	1147
n-Butylbenzene	<32	ug/kg	25	SW 8260B	03/06/2001	1147
sec-Butylbenzene	<32	ug/kg	25	SW 8260B	03/06/2001	1147
tert-Butylbenzene	<32	ug/kg	25	SW 8260B	03/06/2001	1147
Carbon Tetrachloride	<32	ug/kg	25	SW 8260B	03/06/2001	1147
Chlorobenzene	<32	ug/kg	25	SW 8260B	03/06/2001	1147
Chlorodibromomethane	<32	ug/kg	25	SW 8260B	03/06/2001	1147
Chloroethane	<45	ug/kg	35	SW 8260B	03/06/2001	1147
Chloroform	<32	ug/kg	25	SW 8260B	03/06/2001	1147
Chloromethane	<65	ug/kg	50	SW 8260B	03/06/2001	1147
o-Chlorotoluene	<32	ug/kg	25	SW 8260B	03/06/2001	1147

## ANALYTICAL REPORT

Mr. Dave Trainor  
 URS/DAMES & MOORE  
 5250 East Terrace Drive  
 Suite I  
 Madison, WI 53718

03/19/2001  
 Job No: 01.01188  
 Sample No: 428124  
 Account No: 21400  
 Page 82 of 118

JOB DESCRIPTION: 05644-097 NSP/XCEL Ashland  
 PROJECT DESCRIPTION: Sediment Analysis  
 SAMPLE DESCRIPTION: SD-1-2 05644-097 NSP/XCEL  
 Ashland, WI  
 Rec'd on ice

Date/Time Taken: 02/28/2001 16:50

Date Received: 03/02/2001

Parameter	Results	Units	Reporting Limit	Method	Date Analyzed	Prep/Run Batch
4-Chlorotoluene	<32	ug/kg	25	SW 8260B	03/06/2001	1147
1,2-Dibromo-3-Chloropropane	<65	ug/kg	50	SW 8260B	03/06/2001	1147
1,2-Dibromoethane (EDB)	<32	ug/kg	25	SW 8260B	03/06/2001	1147
Dibromomethane	<32	ug/kg	25	SW 8260B	03/06/2001	1147
1,2-Dichlorobenzene	<32	ug/kg	25	SW 8260B	03/06/2001	1147
1,3-Dichlorobenzene	<32	ug/kg	25	SW 8260B	03/06/2001	1147
1,4-Dichlorobenzene	<32	ug/kg	25	SW 8260B	03/06/2001	1147
Dichlorodifluoromethane	<32	ug/kg	25	SW 8260B	03/06/2001	1147
1,1-Dichloroethane	<32	ug/kg	25	SW 8260B	03/06/2001	1147
1,2-Dichloroethane	<32	ug/kg	25	SW 8260B	03/06/2001	1147
1,1-Dichloroethene	<32	ug/kg	25	SW 8260B	03/06/2001	1147
cis-1,2-Dichloroethene	<32	ug/kg	25	SW 8260B	03/06/2001	1147
trans-1,2-Dichloroethene	<32	ug/kg	25	SW 8260B	03/06/2001	1147
1,2-Dichloropropane	<32	ug/kg	25	SW 8260B	03/06/2001	1147
1,3-Dichloropropane	<32	ug/kg	25	SW 8260B	03/06/2001	1147
2,2-Dichloropropane	<32	ug/kg	25	SW 8260B	03/06/2001	1147
1,1-Dichloropropene	<32	ug/kg	25	SW 8260B	03/06/2001	1147
cis-1,3-Dichloropropene	<32	ug/kg	25	SW 8260B	03/06/2001	1147
trans-1,3-Dichloropropene	<32	ug/kg	25	SW 8260B	03/06/2001	1147
Di-isopropyl ether	<32	ug/kg	25	SW 8260B	03/06/2001	1147
Ethylbenzene	<32	ug/kg	25	SW 8260B	03/06/2001	1147
Hexachlorobutadiene	<45	ug/kg	35	SW 8260B	03/06/2001	1147
Isopropylbenzene	<32	ug/kg	25	SW 8260B	03/06/2001	1147
p-Isopropyltoluene	<32	ug/kg	25	SW 8260B	03/06/2001	1147
Methylene Chloride	<65	ug/kg	50	SW 8260B	03/06/2001	1147
Methyl-t-butyl ether	<32	ug/kg	25	SW 8260B	03/06/2001	1147
Naphthalene	<32	ug/kg	25	SW 8260B	03/06/2001	1147
n-Propylbenzene	<32	ug/kg	25	SW 8260B	03/06/2001	1147
Styrene	<32	ug/kg	25	SW 8260B	03/06/2001	1147
1,1,1,2-Tetrachloroethane	<32	ug/kg	25	SW 8260B	03/06/2001	1147
1,1,2,2-Tetrachloroethane	<32	ug/kg	25	SW 8260B	03/06/2001	1147
Tetrachloroethene	<32	ug/kg	25	SW 8260B	03/06/2001	1147
Toluene	46	ug/kg	25	SW 8260B	03/06/2001	1147
1,2,3-Trichlorobenzene	<32	ug/kg	25	SW 8260B	03/06/2001	1147
1,2,4-Trichlorobenzene	<32	ug/kg	25	SW 8260B	03/06/2001	1147
1,1,1-Trichloroethane	<32	ug/kg	25	SW 8260B	03/06/2001	1147
1,1,2-Trichloroethane	<32	ug/kg	25	SW 8260B	03/06/2001	1147
Trichloroethene	<32	ug/kg	25	SW 8260B	03/06/2001	1147
Trichlorofluoromethane	<32	ug/kg	25	SW 8260B	03/06/2001	1147

## ANALYTICAL REPORT

Mr. Dave Trainor  
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 5250 East Terrace Drive  
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03/19/2001  
 Job No: 01.01188  
 Sample No: 428124  
 Account No: 21400  
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JOB DESCRIPTION: 05644-097 NSP/XCEL Ashland  
 PROJECT DESCRIPTION: Sediment Analysis  
 SAMPLE DESCRIPTION: SD-1-2 05644-097 NSP/XCEL  
 Ashland, WI  
 Rec'd on ice

Date/Time Taken: 02/28/2001 16:50                      Date Received: 03/02/2001

Parameter	Results	Units	Reporting Limit	Method	Date Analyzed	Prep/Run Batch
1,2,3-Trichloropropane	<32	ug/kg	25	SW 8260B	03/06/2001	1147
1,2,4-Trimethylbenzene	<32	ug/kg	25	SW 8260B	03/06/2001	1147
1,3,5-Trimethylbenzene	<32	ug/kg	25	SW 8260B	03/06/2001	1147
Vinyl Chloride	<32	ug/kg	25	SW 8260B	03/06/2001	1147
Xylenes, Total	<45	ug/kg	35	SW 8260B	03/06/2001	1147
Surr: Dibromofluoromethane	100.6	%	85-113	SW 8260B	03/06/2001	1147
Surr: Toluene-d8	100.4	%	93-105	SW 8260B	03/06/2001	1147
Surr: Bromofluorobenzene	97.4	%	85-111	SW 8260B	03/06/2001	1147



## ANALYTICAL REPORT

Mr. Dave Trainor  
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03/19/2001  
 Job No: 01.01188  
 Sample No: 428125  
 Account No: 21400  
 Page 84 of 118

JOB DESCRIPTION: 05644-097 NSP/XCEL Ashland  
 PROJECT DESCRIPTION: Sediment Analysis  
 SAMPLE DESCRIPTION: SD-1-4 05644-097 NSP/XCEL  
 Ashland, WI  
 Rec'd on ice

Date/Time Taken: 02/28/2001 16:55

Date Received: 03/02/2001

Parameter	Results	Units	Reporting Limit	Method	Date Analyzed	Prep/Run Batch
Solids, Total	78.4	%	n/a	SW 5030	03/09/2001	3579
BASE/NEUTRALS-8270 NONAQUEOUS						
Acenaphthene	<0.42	mg/kg	0.33	SW 8270B	03/08/2001	326
Acenaphthylene	<0.42	mg/kg	0.33	SW 8270B	03/08/2001	326
Anthracene	<0.42	mg/kg	0.33	SW 8270B	03/08/2001	326
Benzo(a)anthracene	<0.42	mg/kg	0.33	SW 8270B	03/08/2001	326
Benzo(b)fluoranthene	<0.42	mg/kg	0.33	SW 8270B	03/08/2001	326
Benzo(k)fluoranthene	<0.42	mg/kg	0.33	SW 8270B	03/08/2001	326
Benzo(g,h,i)perylene	<0.42	mg/kg	0.33	SW 8270B	03/08/2001	326
Benzo(a)pyrene	<0.42	mg/kg	0.33	SW 8270B	03/08/2001	326
Chrysene	<0.42	mg/kg	0.33	SW 8270B	03/08/2001	326
Dibenzo(a,h)anthracene	<0.42	mg/kg	0.33	SW 8270B	03/08/2001	326
Fluoranthene	<0.42	mg/kg	0.33	SW 8270B	03/08/2001	326
Fluorene	<0.42	mg/kg	0.33	SW 8270B	03/08/2001	326
Indeno(1,2,3-cd)pyrene	<0.42	mg/kg	0.33	SW 8270B	03/08/2001	326
2-Methylnaphthalene	<0.42	mg/kg	0.33	SW 8270B	03/08/2001	326
Naphthalene	<0.42	mg/kg	0.33	SW 8270B	03/08/2001	326
Phenanthrene	<0.42	mg/kg	0.33	SW 8270B	03/08/2001	326
Pyrene	<0.42	mg/kg	0.33	SW 8270B	03/08/2001	326
Surr: Nitrobenzene-d5	66.2	%	n/a	SW 8270B	03/08/2001	326
Surr: 2-Fluorobiphenyl	64.6	%	n/a	SW 8270B	03/08/2001	326
Surr: Terphenyl-d14	93.4	%	n/a	SW 8270B	03/08/2001	326
VOC - METHANOL - 8260B						
Benzene	<32	ug/kg	25	SW 8260B	03/06/2001	1147
Bromobenzene	<32	ug/kg	25	SW 8260B	03/06/2001	1147
Bromochloromethane	<32	ug/kg	25	SW 8260B	03/06/2001	1147
Bromodichloromethane	<32	ug/kg	25	SW 8260B	03/06/2001	1147
Bromoform	<32	ug/kg	25	SW 8260B	03/06/2001	1147
Bromomethane	<128	ug/kg	100	SW 8260B	03/06/2001	1147
n-Butylbenzene	<32	ug/kg	25	SW 8260B	03/06/2001	1147
sec-Butylbenzene	<32	ug/kg	25	SW 8260B	03/06/2001	1147
tert-Butylbenzene	<32	ug/kg	25	SW 8260B	03/06/2001	1147
Carbon Tetrachloride	<32	ug/kg	25	SW 8260B	03/06/2001	1147
Chlorobenzene	<32	ug/kg	25	SW 8260B	03/06/2001	1147
Chlorodibromomethane	<32	ug/kg	25	SW 8260B	03/06/2001	1147
Chloroethane	<45	ug/kg	35	SW 8260B	03/06/2001	1147
Chloroform	<32	ug/kg	25	SW 8260B	03/06/2001	1147
Chloromethane	<64	ug/kg	50	SW 8260B	03/06/2001	1147
2-Chlorotoluene	<32	ug/kg	25	SW 8260B	03/06/2001	1147

## ANALYTICAL REPORT

Mr. Dave Trainor  
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03/19/2001  
 Job No: 01.01188  
 Sample No: 428125  
 Account No: 21400  
 Page 85 of 118

JOB DESCRIPTION: 05644-097 NSP/XCEL Ashland  
 PROJECT DESCRIPTION: Sediment Analysis  
 SAMPLE DESCRIPTION: SD-1-4 05644-097 NSP/XCEL  
 Ashland, WI  
 Rec'd on ice

Date/Time Taken: 02/28/2001 16:55      Date Received: 03/02/2001

Parameter	Results	Units	Reporting Limit	Method	Date Analyzed	Prep/Run Batch
4-Chlorotoluene	<32	ug/kg	25	SW 8260B	03/06/2001	1147
1,2-Dibromo-3-Chloropropane	<64	ug/kg	50	SW 8260B	03/06/2001	1147
1,2-Dibromoethane (EDB)	<32	ug/kg	25	SW 8260B	03/06/2001	1147
Dibromomethane	<32	ug/kg	25	SW 8260B	03/06/2001	1147
1,2-Dichlorobenzene	<32	ug/kg	25	SW 8260B	03/06/2001	1147
1,3-Dichlorobenzene	<32	ug/kg	25	SW 8260B	03/06/2001	1147
1,4-Dichlorobenzene	<32	ug/kg	25	SW 8260B	03/06/2001	1147
Dichlorodifluoromethane	<32	ug/kg	25	SW 8260B	03/06/2001	1147
1,1-Dichloroethane	<32	ug/kg	25	SW 8260B	03/06/2001	1147
1,2-Dichloroethane	<32	ug/kg	25	SW 8260B	03/06/2001	1147
1,1-Dichloroethene	<32	ug/kg	25	SW 8260B	03/06/2001	1147
cis-1,2-Dichloroethene	<32	ug/kg	25	SW 8260B	03/06/2001	1147
trans-1,2-Dichloroethene	<32	ug/kg	25	SW 8260B	03/06/2001	1147
1,2-Dichloropropane	<32	ug/kg	25	SW 8260B	03/06/2001	1147
1,3-Dichloropropane	<32	ug/kg	25	SW 8260B	03/06/2001	1147
2,2-Dichloropropane	<32	ug/kg	25	SW 8260B	03/06/2001	1147
1,1-Dichloropropene	<32	ug/kg	25	SW 8260B	03/06/2001	1147
cis-1,3-Dichloropropene	<32	ug/kg	25	SW 8260B	03/06/2001	1147
trans-1,3-Dichloropropene	<32	ug/kg	25	SW 8260B	03/06/2001	1147
Di-isopropyl ether	<32	ug/kg	25	SW 8260B	03/06/2001	1147
Ethylbenzene	<32	ug/kg	25	SW 8260B	03/06/2001	1147
Hexachlorobutadiene	<45	ug/kg	35	SW 8260B	03/06/2001	1147
Isopropylbenzene	<32	ug/kg	25	SW 8260B	03/06/2001	1147
p-Isopropyltoluene	<32	ug/kg	25	SW 8260B	03/06/2001	1147
Methylene Chloride	<64	ug/kg	50	SW 8260B	03/06/2001	1147
Methyl-t-butyl ether	<32	ug/kg	25	SW 8260B	03/06/2001	1147
Naphthalene	<32	ug/kg	25	SW 8260B	03/06/2001	1147
n-Propylbenzene	<32	ug/kg	25	SW 8260B	03/06/2001	1147
Styrene	<32	ug/kg	25	SW 8260B	03/06/2001	1147
1,1,1,2-Tetrachloroethane	<32	ug/kg	25	SW 8260B	03/06/2001	1147
1,1,2,2-Tetrachloroethane	<32	ug/kg	25	SW 8260B	03/06/2001	1147
Tetrachloroethene	<32	ug/kg	25	SW 8260B	03/06/2001	1147
Toluene	<32	ug/kg	25	SW 8260B	03/06/2001	1147
1,2,3-Trichlorobenzene	<32	ug/kg	25	SW 8260B	03/06/2001	1147
1,2,4-Trichlorobenzene	<32	ug/kg	25	SW 8260B	03/06/2001	1147
1,1,1-Trichloroethane	<32	ug/kg	25	SW 8260B	03/06/2001	1147
1,1,2-Trichloroethane	<32	ug/kg	25	SW 8260B	03/06/2001	1147
Trichloroethene	<32	ug/kg	25	SW 8260B	03/06/2001	1147
Trichlorofluoromethane	<32	ug/kg	25	SW 8260B	03/06/2001	1147

## ANALYTICAL REPORT

Mr. Dave Trainor  
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03/19/2001  
 Job No: 01.01188  
 Sample No: 428125  
 Account No: 21400  
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JOB DESCRIPTION: 05644-097 NSP/XCEL Ashland  
 PROJECT DESCRIPTION: Sediment Analysis  
 SAMPLE DESCRIPTION: SD-1-4 05644-097 NSP/XCEL  
 Ashland, WI  
 Rec'd on ice

Date/Time Taken: 02/28/2001 16:55

Date Received: 03/02/2001

Parameter	Results	Units	Reporting Limit	Method	Date Analyzed	Prep/Run Batch
1,2,3-Trichloropropane	<32	ug/kg	25	SW 8260B	03/06/2001	1147
1,2,4-Trimethylbenzene	<32	ug/kg	25	SW 8260B	03/06/2001	1147
1,3,5-Trimethylbenzene	<32	ug/kg	25	SW 8260B	03/06/2001	1147
Vinyl Chloride	<32	ug/kg	25	SW 8260B	03/06/2001	1147
Xylenes, Total	<45	ug/kg	35	SW 8260B	03/06/2001	1147
Surr: Dibromofluoromethane	101.4	%	85-113	SW 8260B	03/06/2001	1147
Surr: Toluene-d8	99.4	%	93-105	SW 8260B	03/06/2001	1147
Surr: Bromofluorobenzene	95.6	%	85-111	SW 8260B	03/06/2001	1147

## ANALYTICAL REPORT

Mr. Dave Trainor  
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03/19/2001  
 Job No: 01.01188  
 Sample No: 428126  
 Account No: 21400  
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JOB DESCRIPTION: 05644-097 NSP/XCEL Ashland  
 PROJECT DESCRIPTION: Sediment Analysis  
 SAMPLE DESCRIPTION: SD-1-6 05644-097 NSP/XCEL  
 Ashland, WI  
 Rec'd on ice

Date/Time Taken: 02/28/2001 17:00

Date Received: 03/02/2001

Parameter	Results	Units	Reporting Limit	Method	Date Analyzed	Prep/Run Batch
Solids, Total	79.3	%	n/a	SW 5030	03/09/2001	3579
BASE/NEUTRALS-8270 NONAQUEOUS						
Acenaphthene	<0.42	mg/kg	0.33	SW 8270B	03/08/2001	326
Acenaphthylene	<0.42	mg/kg	0.33	SW 8270B	03/08/2001	326
Anthracene	<0.42	mg/kg	0.33	SW 8270B	03/08/2001	326
Benzo (a) anthracene	<0.42	mg/kg	0.33	SW 8270B	03/08/2001	326
Benzo (b) fluoranthene	<0.42	mg/kg	0.33	SW 8270B	03/08/2001	326
Benzo (k) fluoranthene	<0.42	mg/kg	0.33	SW 8270B	03/08/2001	326
Benzo (g, h, i) perylene	<0.42	mg/kg	0.33	SW 8270B	03/08/2001	326
Benzo (a) pyrene	<0.42	mg/kg	0.33	SW 8270B	03/08/2001	326
Chrysene	<0.42	mg/kg	0.33	SW 8270B	03/08/2001	326
Dibenzo (a, h) anthracene	<0.42	mg/kg	0.33	SW 8270B	03/08/2001	326
Fluoranthene	<0.42	mg/kg	0.33	SW 8270B	03/08/2001	326
Fluorene	<0.42	mg/kg	0.33	SW 8270B	03/08/2001	326
Indeno (1, 2, 3-cd) pyrene	<0.42	mg/kg	0.33	SW 8270B	03/08/2001	326
2-Methylnaphthalene	<0.42	mg/kg	0.33	SW 8270B	03/08/2001	326
Naphthalene	<0.42	mg/kg	0.33	SW 8270B	03/08/2001	326
Phenanthrene	<0.42	mg/kg	0.33	SW 8270B	03/08/2001	326
Pyrene	<0.42	mg/kg	0.33	SW 8270B	03/08/2001	326
Surr: Nitrobenzene-d5	76.4	%	n/a	SW 8270B	03/08/2001	326
Surr: 2-Fluorobiphenyl	75.8	%	n/a	SW 8270B	03/08/2001	326
Surr: Terphenyl-d14	98.9	%	n/a	SW 8270B	03/08/2001	326
VOC - METHANOL - 8260B						
Benzene	<32	ug/kg	25	SW 8260B	03/06/2001	1147
Bromobenzene	<32	ug/kg	25	SW 8260B	03/06/2001	1147
Bromochloromethane	<32	ug/kg	25	SW 8260B	03/06/2001	1147
Bromodichloromethane	<32	ug/kg	25	SW 8260B	03/06/2001	1147
Bromoform	<32	ug/kg	25	SW 8260B	03/06/2001	1147
Bromomethane	<126	ug/kg	100	SW 8260B	03/06/2001	1147
n-Butylbenzene	<32	ug/kg	25	SW 8260B	03/06/2001	1147
sec-Butylbenzene	<32	ug/kg	25	SW 8260B	03/06/2001	1147
tert-Butylbenzene	<32	ug/kg	25	SW 8260B	03/06/2001	1147
Carbon Tetrachloride	<32	ug/kg	25	SW 8260B	03/06/2001	1147
Chlorobenzene	<32	ug/kg	25	SW 8260B	03/06/2001	1147
Chlorodibromomethane	<32	ug/kg	25	SW 8260B	03/06/2001	1147
Chloroethane	<44	ug/kg	35	SW 8260B	03/06/2001	1147
Chloroform	<32	ug/kg	25	SW 8260B	03/06/2001	1147
Chloromethane	<63	ug/kg	50	SW 8260B	03/06/2001	1147
2-Chlorotoluene	<32	ug/kg	25	SW 8260B	03/06/2001	1147

## ANALYTICAL REPORT

Mr. Dave Trainor  
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 5250 East Terrace Drive  
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03/19/2001  
 Job No: 01.01188  
 Sample No: 428126  
 Account No: 21400  
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JOB DESCRIPTION: 05644-097 NSP/XCEL Ashland  
 PROJECT DESCRIPTION: Sediment Analysis  
 SAMPLE DESCRIPTION: SD-1-6 05644-097 NSP/XCEL  
 Ashland, WI  
 Rec'd on ice

Date/Time Taken: 02/28/2001 17:00

Date Received: 03/02/2001

Parameter	Results	Units	Reporting Limit	Method	Date Analyzed	Prep/Run Batch
4-Chlorotoluene	<32	ug/kg	25	SW 8260B	03/06/2001	1147
1,2-Dibromo-3-Chloropropane	<63	ug/kg	50	SW 8260B	03/06/2001	1147
1,2-Dibromoethane (EDB)	<32	ug/kg	25	SW 8260B	03/06/2001	1147
Dibromomethane	<32	ug/kg	25	SW 8260B	03/06/2001	1147
1,2-Dichlorobenzene	<32	ug/kg	25	SW 8260B	03/06/2001	1147
1,3-Dichlorobenzene	<32	ug/kg	25	SW 8260B	03/06/2001	1147
1,4-Dichlorobenzene	<32	ug/kg	25	SW 8260B	03/06/2001	1147
Dichlorodifluoromethane	<32	ug/kg	25	SW 8260B	03/06/2001	1147
1,1-Dichloroethane	<32	ug/kg	25	SW 8260B	03/06/2001	1147
1,2-Dichloroethane	<32	ug/kg	25	SW 8260B	03/06/2001	1147
1,1-Dichloroethene	<32	ug/kg	25	SW 8260B	03/06/2001	1147
cis-1,2-Dichloroethene	<32	ug/kg	25	SW 8260B	03/06/2001	1147
trans-1,2-Dichloroethene	<32	ug/kg	25	SW 8260B	03/06/2001	1147
1,2-Dichloropropane	<32	ug/kg	25	SW 8260B	03/06/2001	1147
1,3-Dichloropropane	<32	ug/kg	25	SW 8260B	03/06/2001	1147
2,2-Dichloropropane	<32	ug/kg	25	SW 8260B	03/06/2001	1147
1,1-Dichloropropene	<32	ug/kg	25	SW 8260B	03/06/2001	1147
cis-1,3-Dichloropropene	<32	ug/kg	25	SW 8260B	03/06/2001	1147
trans-1,3-Dichloropropene	<32	ug/kg	25	SW 8260B	03/06/2001	1147
Di-isopropyl ether	<32	ug/kg	25	SW 8260B	03/06/2001	1147
Ethylbenzene	<32	ug/kg	25	SW 8260B	03/06/2001	1147
Hexachlorobutadiene	<44	ug/kg	35	SW 8260B	03/06/2001	1147
Isopropylbenzene	<32	ug/kg	25	SW 8260B	03/06/2001	1147
p-Isopropyltoluene	<32	ug/kg	25	SW 8260B	03/06/2001	1147
Methylene Chloride	L 164	ug/kg	50	SW 8260B	03/06/2001	1147
Methyl-t-butyl ether	<32	ug/kg	25	SW 8260B	03/06/2001	1147
Naphthalene	<32	ug/kg	25	SW 8260B	03/06/2001	1147
n-Propylbenzene	<32	ug/kg	25	SW 8260B	03/06/2001	1147
Styrene	<32	ug/kg	25	SW 8260B	03/06/2001	1147
1,1,1,2-Tetrachloroethane	<32	ug/kg	25	SW 8260B	03/06/2001	1147
1,1,2,2-Tetrachloroethane	<32	ug/kg	25	SW 8260B	03/06/2001	1147
Tetrachloroethene	<32	ug/kg	25	SW 8260B	03/06/2001	1147
Toluene	<32	ug/kg	25	SW 8260B	03/06/2001	1147
1,2,3-Trichlorobenzene	<32	ug/kg	25	SW 8260B	03/06/2001	1147
1,2,4-Trichlorobenzene	<32	ug/kg	25	SW 8260B	03/06/2001	1147
1,1,1-Trichloroethane	<32	ug/kg	25	SW 8260B	03/06/2001	1147
1,1,2-Trichloroethane	<32	ug/kg	25	SW 8260B	03/06/2001	1147
Trichloroethene	<32	ug/kg	25	SW 8260B	03/06/2001	1147
Trichlorofluoromethane	<32	ug/kg	25	SW 8260B	03/06/2001	1147

## ANALYTICAL REPORT

Mr. Dave Trainor  
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03/19/2001  
 Job No: 01.01188  
 Sample No: 428126  
 Account No: 21400  
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JOB DESCRIPTION: 05644-097 NSP/XCEL Ashland  
 PROJECT DESCRIPTION: Sediment Analysis  
 SAMPLE DESCRIPTION: SD-1-6 05644-097 NSP/XCEL  
 Ashland, WI  
 Rec'd on ice

Date/Time Taken: 02/28/2001 17:00

Date Received: 03/02/2001

Parameter	Results	Units	Reporting Limit	Method	Date Analyzed	Prep/Run Batch
1,2,3-Trichloropropane	<32	ug/kg	25	SW 8260B	03/06/2001	1147
1,2,4-Trimethylbenzene	<32	ug/kg	25	SW 8260B	03/06/2001	1147
1,3,5-Trimethylbenzene	<32	ug/kg	25	SW 8260B	03/06/2001	1147
Vinyl Chloride	<32	ug/kg	25	SW 8260B	03/06/2001	1147
Xylenes, Total	<44	ug/kg	35	SW 8260B	03/06/2001	1147
Surr: Dibromofluoromethane	101.0	%	85-113	SW 8260B	03/06/2001	1147
Surr: Toluene-d8	96.8	%	93-105	SW 8260B	03/06/2001	1147
Surr: Bromofluorobenzene	97.8	%	85-111	SW 8260B	03/06/2001	1147

## ANALYTICAL REPORT

Mr. Dave Trainor  
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03/19/2001  
 Job No: 01.01188  
 Sample No: 428127  
 Account No: 21400  
 Page 90 of 118

JOB DESCRIPTION: 05644-097 NSP/XCEL Ashland  
 PROJECT DESCRIPTION: Sediment Analysis  
 SAMPLE DESCRIPTION: SD-1-8 05644-097 NSP/XCEL  
 Ashland, WI  
 Rec'd on ice

Date/Time Taken: 02/28/2001 17:05

Date Received: 03/02/2001

Parameter	Results	Units	Reporting Limit	Method	Date Analyzed	Prep/Run Batch
Solids, Total	82.3	%	n/a	SW 5030	03/09/2001	3579
BASE/NEUTRALS-8270 NONAQUEOUS						
Acenaphthene	<0.40	mg/kg	0.33	SW 8270B	03/09/2001	327
Acenaphthylene	<0.40	mg/kg	0.33	SW 8270B	03/09/2001	327
Anthracene	<0.40	mg/kg	0.33	SW 8270B	03/09/2001	327
Benzo (a) anthracene	<0.40	mg/kg	0.33	SW 8270B	03/09/2001	327
Benzo (b) fluoranthene	<0.40	mg/kg	0.33	SW 8270B	03/09/2001	327
Benzo (k) fluoranthene	<0.40	mg/kg	0.33	SW 8270B	03/09/2001	327
Benzo (g, h, i) perylene	<0.40	mg/kg	0.33	SW 8270B	03/09/2001	327
Benzo (a) pyrene	<0.40	mg/kg	0.33	SW 8270B	03/09/2001	327
Chrysene	<0.40	mg/kg	0.33	SW 8270B	03/09/2001	327
Dibenzo (a, h) anthracene	<0.40	mg/kg	0.33	SW 8270B	03/09/2001	327
Fluoranthene	<0.40	mg/kg	0.33	SW 8270B	03/09/2001	327
Fluorene	<0.40	mg/kg	0.33	SW 8270B	03/09/2001	327
Indeno (1, 2, 3-cd) pyrene	<0.40	mg/kg	0.33	SW 8270B	03/09/2001	327
2-Methylnaphthalene	<0.40	mg/kg	0.33	SW 8270B	03/09/2001	327
Naphthalene	<0.40	mg/kg	0.33	SW 8270B	03/09/2001	327
Phenanthrene	<0.40	mg/kg	0.33	SW 8270B	03/09/2001	327
Pyrene	<0.40	mg/kg	0.33	SW 8270B	03/09/2001	327
Surr: Nitrobenzene-d5	80.5	%	n/a	SW 8270B	03/09/2001	327
Surr: 2-Fluorobiphenyl	77.1	%	n/a	SW 8270B	03/09/2001	327
Surr: Terphenyl-d14	92.2	%	n/a	SW 8270B	03/09/2001	327
VOC - METHANOL - 8260B						
Benzene	<30	ug/kg	25	SW 8260B	03/06/2001	1147
Bromobenzene	<30	ug/kg	25	SW 8260B	03/06/2001	1147
Bromochloromethane	<30	ug/kg	25	SW 8260B	03/06/2001	1147
Bromodichloromethane	<30	ug/kg	25	SW 8260B	03/06/2001	1147
Bromoform	<30	ug/kg	25	SW 8260B	03/06/2001	1147
Bromomethane	<122	ug/kg	100	SW 8260B	03/06/2001	1147
n-Butylbenzene	<30	ug/kg	25	SW 8260B	03/06/2001	1147
sec-Butylbenzene	<30	ug/kg	25	SW 8260B	03/06/2001	1147
tert-Butylbenzene	<30	ug/kg	25	SW 8260B	03/06/2001	1147
Carbon Tetrachloride	<30	ug/kg	25	SW 8260B	03/06/2001	1147
Chlorobenzene	<30	ug/kg	25	SW 8260B	03/06/2001	1147
Chlorodibromomethane	<30	ug/kg	25	SW 8260B	03/06/2001	1147
Chloroethane	<43	ug/kg	35	SW 8260B	03/06/2001	1147
Chloroform	<30	ug/kg	25	SW 8260B	03/06/2001	1147
Chloromethane	<61	ug/kg	50	SW 8260B	03/06/2001	1147
2-Chlorotoluene	<30	ug/kg	25	SW 8260B	03/06/2001	1147

## ANALYTICAL REPORT

Mr. Dave Trainor  
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03/19/2001  
 Job No: 01.01188  
 Sample No: 428127  
 Account No: 21400  
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JOB DESCRIPTION: 05644-097 NSP/XCEL Ashland  
 PROJECT DESCRIPTION: Sediment Analysis  
 SAMPLE DESCRIPTION: SD-1-8 05644-097 NSP/XCEL  
 Ashland, WI  
 Rec'd on ice

Date/Time Taken: 02/28/2001 17:05

Date Received: 03/02/2001

Parameter	Results	Units	Reporting Limit	Method	Date Analyzed	Prep/Run Batch
4-Chlorotoluene	<30	ug/kg	25	SW 8260B	03/06/2001	1147
1,2-Dibromo-3-Chloropropane	<61	ug/kg	50	SW 8260B	03/06/2001	1147
1,2-Dibromoethane (EDB)	<30	ug/kg	25	SW 8260B	03/06/2001	1147
Dibromomethane	<30	ug/kg	25	SW 8260B	03/06/2001	1147
1,2-Dichlorobenzene	<30	ug/kg	25	SW 8260B	03/06/2001	1147
1,3-Dichlorobenzene	<30	ug/kg	25	SW 8260B	03/06/2001	1147
1,4-Dichlorobenzene	<30	ug/kg	25	SW 8260B	03/06/2001	1147
Dichlorodifluoromethane	<30	ug/kg	25	SW 8260B	03/06/2001	1147
1,1-Dichloroethane	<30	ug/kg	25	SW 8260B	03/06/2001	1147
1,2-Dichloroethane	<30	ug/kg	25	SW 8260B	03/06/2001	1147
1,1-Dichloroethene	<30	ug/kg	25	SW 8260B	03/06/2001	1147
cis-1,2-Dichloroethene	<30	ug/kg	25	SW 8260B	03/06/2001	1147
trans-1,2-Dichloroethene	<30	ug/kg	25	SW 8260B	03/06/2001	1147
1,2-Dichloropropane	<30	ug/kg	25	SW 8260B	03/06/2001	1147
1,3-Dichloropropane	<30	ug/kg	25	SW 8260B	03/06/2001	1147
2,2-Dichloropropane	<30	ug/kg	25	SW 8260B	03/06/2001	1147
1,1-Dichloropropene	<30	ug/kg	25	SW 8260B	03/06/2001	1147
cis-1,3-Dichloropropene	<30	ug/kg	25	SW 8260B	03/06/2001	1147
trans-1,3-Dichloropropene	<30	ug/kg	25	SW 8260B	03/06/2001	1147
Di-isopropyl ether	<30	ug/kg	25	SW 8260B	03/06/2001	1147
Ethylbenzene	<30	ug/kg	25	SW 8260B	03/06/2001	1147
Hexachlorobutadiene	<43	ug/kg	35	SW 8260B	03/06/2001	1147
Isopropylbenzene	<30	ug/kg	25	SW 8260B	03/06/2001	1147
p-Isopropyltoluene	<30	ug/kg	25	SW 8260B	03/06/2001	1147
Methylene Chloride	L 134	ug/kg	50	SW 8260B	03/06/2001	1147
Methyl-t-butyl ether	<30	ug/kg	25	SW 8260B	03/06/2001	1147
Naphthalene	<30	ug/kg	25	SW 8260B	03/06/2001	1147
n-Propylbenzene	<30	ug/kg	25	SW 8260B	03/06/2001	1147
Styrene	<30	ug/kg	25	SW 8260B	03/06/2001	1147
1,1,1,2-Tetrachloroethane	<30	ug/kg	25	SW 8260B	03/06/2001	1147
1,1,2,2-Tetrachloroethane	<30	ug/kg	25	SW 8260B	03/06/2001	1147
Tetrachloroethene	<30	ug/kg	25	SW 8260B	03/06/2001	1147
Toluene	<30	ug/kg	25	SW 8260B	03/06/2001	1147
1,2,3-Trichlorobenzene	<30	ug/kg	25	SW 8260B	03/06/2001	1147
1,2,4-Trichlorobenzene	<30	ug/kg	25	SW 8260B	03/06/2001	1147
1,1,1-Trichloroethane	<30	ug/kg	25	SW 8260B	03/06/2001	1147
1,1,2-Trichloroethane	<30	ug/kg	25	SW 8260B	03/06/2001	1147
Trichloroethene	<30	ug/kg	25	SW 8260B	03/06/2001	1147
Trichlorofluoromethane	<30	ug/kg	25	SW 8260B	03/06/2001	1147



## ANALYTICAL REPORT

Mr. Dave Trainor  
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03/19/2001  
 Job No: 01.01188  
 Sample No: 428127  
 Account No: 21400  
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JOB DESCRIPTION: 05644-097 NSP/XCEL Ashland  
 PROJECT DESCRIPTION: Sediment Analysis  
 SAMPLE DESCRIPTION: SD-1-8 05644-097 NSP/XCEL  
 Ashland, WI  
 Rec'd on ice

Date/Time Taken: 02/28/2001 17:05

Date Received: 03/02/2001

Parameter	Results	Units	Reporting Limit	Method	Date Analyzed	Prep/Run Batch
1,2,3-Trichloropropane	<30	ug/kg	25	SW 8260B	03/06/2001	1147
1,2,4-Trimethylbenzene	<30	ug/kg	25	SW 8260B	03/06/2001	1147
1,3,5-Trimethylbenzene	<30	ug/kg	25	SW 8260B	03/06/2001	1147
-Vinyl Chloride	<30	ug/kg	25	SW 8260B	03/06/2001	1147
Xylenes, Total	<43	ug/kg	35	SW 8260B	03/06/2001	1147
Surr: Dibromofluoromethane	101.6	%	85-113	SW 8260B	03/06/2001	1147
Surr: Toluene-d8	100.6	%	93-105	SW 8260B	03/06/2001	1147
-Surr: Bromofluorobenzene	96.4	%	85-111	SW 8260B	03/06/2001	1147

## ANALYTICAL REPORT

Mr. Dave Trainor  
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03/19/2001  
 Job No: 01.01188  
 Sample No: 428128  
 Account No: 21400  
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JOB DESCRIPTION: 05644-097 NSP/XCEL Ashland  
 PROJECT DESCRIPTION: Sediment Analysis  
 SAMPLE DESCRIPTION: SD-4-2 05644-097 NSP/XCEL  
 Ashland, WI  
 Rec'd on ice

Date/Time Taken: 02/28/2001 17:20

Date Received: 03/02/2001

Parameter	Results	Units	Reporting Limit	Method	Date Analyzed	Prep/Run Batch
Solids, Total	48.6	%	n/a	SW 5030	03/09/2001	3579
-BASE/NEUTRALS-8270 NONAQUEOUS						
Acenaphthene	<0.68	mg/kg	0.33	SW 8270B	03/08/2001	326
Acenaphthylene	<0.68	mg/kg	0.33	SW 8270B	03/08/2001	326
Anthracene	<0.68	mg/kg	0.33	SW 8270B	03/08/2001	326
Benzo (a) anthracene	<0.68	mg/kg	0.33	SW 8270B	03/08/2001	326
Benzo (b) fluoranthene	<0.68	mg/kg	0.33	SW 8270B	03/08/2001	326
Benzo (k) fluoranthene	<0.68	mg/kg	0.33	SW 8270B	03/08/2001	326
Benzo (g, h, i) perylene	<0.68	mg/kg	0.33	SW 8270B	03/08/2001	326
Benzo (a) pyrene	<0.68	mg/kg	0.33	SW 8270B	03/08/2001	326
Chrysene	<0.68	mg/kg	0.33	SW 8270B	03/08/2001	326
Dibenzo (a, h) anthracene	<0.68	mg/kg	0.33	SW 8270B	03/08/2001	326
Fluoranthene	<0.68	mg/kg	0.33	SW 8270B	03/08/2001	326
Fluorene	<0.68	mg/kg	0.33	SW 8270B	03/08/2001	326
Indeno (1, 2, 3-cd) pyrene	<0.68	mg/kg	0.33	SW 8270B	03/08/2001	326
2-Methylnaphthalene	<0.68	mg/kg	0.33	SW 8270B	03/08/2001	326
Naphthalene	<0.68	mg/kg	0.33	SW 8270B	03/08/2001	326
Phenanthrene	<0.68	mg/kg	0.33	SW 8270B	03/08/2001	326
Pyrene	<0.68	mg/kg	0.33	SW 8270B	03/08/2001	326
Surr: Nitrobenzene-d5	104.0	%	n/a	SW 8270B	03/08/2001	326
Surr: 2-Fluorobiphenyl	101.0	%	n/a	SW 8270B	03/08/2001	326
Surr: Terphenyl-d14	99.6	%	n/a	SW 8270B	03/08/2001	326
VOC - METHANOL - 8260B						
Benzene	<51	ug/kg	25	SW 8260B	03/06/2001	1147
Bromobenzene	<51	ug/kg	25	SW 8260B	03/06/2001	1147
Bromochloromethane	<51	ug/kg	25	SW 8260B	03/06/2001	1147
Bromodichloromethane	<51	ug/kg	25	SW 8260B	03/06/2001	1147
Bromoform	<51	ug/kg	25	SW 8260B	03/06/2001	1147
Bromomethane	<206	ug/kg	100	SW 8260B	03/06/2001	1147
n-Butylbenzene	<51	ug/kg	25	SW 8260B	03/06/2001	1147
sec-Butylbenzene	<51	ug/kg	25	SW 8260B	03/06/2001	1147
tert-Butylbenzene	<51	ug/kg	25	SW 8260B	03/06/2001	1147
Carbon Tetrachloride	<51	ug/kg	25	SW 8260B	03/06/2001	1147
Chlorobenzene	<51	ug/kg	25	SW 8260B	03/06/2001	1147
Chlorodibromomethane	<51	ug/kg	25	SW 8260B	03/06/2001	1147
Chloroethane	<72	ug/kg	35	SW 8260B	03/06/2001	1147
Chloroform	<51	ug/kg	25	SW 8260B	03/06/2001	1147
Chloromethane	<100	ug/kg	50	SW 8260B	03/06/2001	1147
2-Chlorotoluene	<51	ug/kg	25	SW 8260B	03/06/2001	1147

## ANALYTICAL REPORT

Mr. Dave Trainor  
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03/19/2001  
 Job No: 01.01188  
 Sample No: 428128  
 Account No: 21400  
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JOB DESCRIPTION: 05644-097 NSP/XCEL Ashland  
 PROJECT DESCRIPTION: Sediment Analysis  
 SAMPLE DESCRIPTION: SD-4-2 05644-097 NSP/XCEL  
 Ashland, WI  
 Rec'd on ice

Date/Time Taken: 02/28/2001 17:20

Date Received: 03/02/2001

Parameter	Results	Units	Reporting Limit	Method	Date Analyzed	Prep/Run Batch
4-Chlorotoluene	<51	ug/kg	25	SW 8260B	03/06/2001	1147
1,2-Dibromo-3-Chloropropane	<100	ug/kg	50	SW 8260B	03/06/2001	1147
1,2-Dibromoethane (EDB)	<51	ug/kg	25	SW 8260B	03/06/2001	1147
Dibromomethane	<51	ug/kg	25	SW 8260B	03/06/2001	1147
1,2-Dichlorobenzene	<51	ug/kg	25	SW 8260B	03/06/2001	1147
1,3-Dichlorobenzene	<51	ug/kg	25	SW 8260B	03/06/2001	1147
1,4-Dichlorobenzene	<51	ug/kg	25	SW 8260B	03/06/2001	1147
Dichlorodifluoromethane	<51	ug/kg	25	SW 8260B	03/06/2001	1147
1,1-Dichloroethane	<51	ug/kg	25	SW 8260B	03/06/2001	1147
1,2-Dichloroethane	<51	ug/kg	25	SW 8260B	03/06/2001	1147
1,1-Dichloroethene	<51	ug/kg	25	SW 8260B	03/06/2001	1147
cis-1,2-Dichloroethene	<51	ug/kg	25	SW 8260B	03/06/2001	1147
trans-1,2-Dichloroethene	<51	ug/kg	25	SW 8260B	03/06/2001	1147
1,2-Dichloropropane	<51	ug/kg	25	SW 8260B	03/06/2001	1147
1,3-Dichloropropane	<51	ug/kg	25	SW 8260B	03/06/2001	1147
2,2-Dichloropropane	<51	ug/kg	25	SW 8260B	03/06/2001	1147
1,1-Dichloropropene	<51	ug/kg	25	SW 8260B	03/06/2001	1147
cis-1,3-Dichloropropene	<51	ug/kg	25	SW 8260B	03/06/2001	1147
trans-1,3-Dichloropropene	<51	ug/kg	25	SW 8260B	03/06/2001	1147
Di-isopropyl ether	<51	ug/kg	25	SW 8260B	03/06/2001	1147
Ethylbenzene	<51	ug/kg	25	SW 8260B	03/06/2001	1147
Hexachlorobutadiene	<72	ug/kg	35	SW 8260B	03/06/2001	1147
Isopropylbenzene	<51	ug/kg	25	SW 8260B	03/06/2001	1147
p-Isopropyltoluene	267	ug/kg	25	SW 8260B	03/06/2001	1147
Methylene Chloride	<100	ug/kg	50	SW 8260B	03/06/2001	1147
Methyl-t-butyl ether	<51	ug/kg	25	SW 8260B	03/06/2001	1147
Naphthalene	<51	ug/kg	25	SW 8260B	03/06/2001	1147
n-Propylbenzene	<51	ug/kg	25	SW 8260B	03/06/2001	1147
Styrene	<51	ug/kg	25	SW 8260B	03/06/2001	1147
1,1,1,2-Tetrachloroethane	<51	ug/kg	25	SW 8260B	03/06/2001	1147
1,1,2,2-Tetrachloroethane	<51	ug/kg	25	SW 8260B	03/06/2001	1147
Tetrachloroethene	<51	ug/kg	25	SW 8260B	03/06/2001	1147
Toluene	391	ug/kg	25	SW 8260B	03/06/2001	1147
1,2,3-Trichlorobenzene	<51	ug/kg	25	SW 8260B	03/06/2001	1147
1,2,4-Trichlorobenzene	<51	ug/kg	25	SW 8260B	03/06/2001	1147
1,1,1-Trichloroethane	<51	ug/kg	25	SW 8260B	03/06/2001	1147
1,1,2-Trichloroethane	<51	ug/kg	25	SW 8260B	03/06/2001	1147
Trichloroethene	<51	ug/kg	25	SW 8260B	03/06/2001	1147
Trichlorofluoromethane	<51	ug/kg	25	SW 8260B	03/06/2001	1147

## ANALYTICAL REPORT

Mr. Dave Trainor  
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 5250 East Terrace Drive  
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03/19/2001  
 Job No: 01.01188  
 Sample No: 428128  
 Account No: 21400  
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JOB DESCRIPTION: 05644-097 NSP/XCEL Ashland  
 PROJECT DESCRIPTION: Sediment Analysis  
 SAMPLE DESCRIPTION: SD-4-2 05644-097 NSP/XCEL  
 Ashland, WI  
 Rec'd on ice

Date/Time Taken: 02/28/2001 17:20

Date Received: 03/02/2001

Parameter	Results	Units	Reporting Limit	Method	Date Analyzed	Prep/Run Batch
1,2,3-Trichloropropane	<51	ug/kg	25	SW 8260B	03/06/2001	1147
1,2,4-Trimethylbenzene	<51	ug/kg	25	SW 8260B	03/06/2001	1147
1,3,5-Trimethylbenzene	<51	ug/kg	25	SW 8260B	03/06/2001	1147
Vinyl Chloride	<51	ug/kg	25	SW 8260B	03/06/2001	1147
Xylenes, Total	<72	ug/kg	35	SW 8260B	03/06/2001	1147
Surr: Dibromofluoromethane	101.4	%	85-113	SW 8260B	03/06/2001	1147
Surr: Toluene-d8	98.0	%	93-105	SW 8260B	03/06/2001	1147
Surr: Bromofluorobenzene	97.0	%	85-111	SW 8260B	03/06/2001	1147

## ANALYTICAL REPORT

Mr. Dave Trainor  
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03/19/2001  
 Job No: 01.01188  
 Sample No: 428129  
 Account No: 21400  
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JOB DESCRIPTION: 05644-097 NSP/XCEL Ashland  
 PROJECT DESCRIPTION: Sediment Analysis  
 SAMPLE DESCRIPTION: SD-4-4 05644-097 NSP/XCEL  
 Ashland, WI  
 Rec'd on ice

Date/Time Taken: 02/28/2001 17:25

Date Received: 03/02/2001

Parameter	Results	Units	Reporting Limit	Method	Date Analyzed	Prep/Run Batch
Solids, Total	81.3	%	n/a	SW 5030	03/09/2001	3579
BASE/NEUTRALS-8270 NONAQUEOUS						
Acenaphthene	<0.41	mg/kg	0.33	SW 8270B	03/08/2001	326
Acenaphthylene	<0.41	mg/kg	0.33	SW 8270B	03/08/2001	326
Anthracene	<0.41	mg/kg	0.33	SW 8270B	03/08/2001	326
Benzo(a)anthracene	<0.41	mg/kg	0.33	SW 8270B	03/08/2001	326
Benzo(b)fluoranthene	<0.41	mg/kg	0.33	SW 8270B	03/08/2001	326
Benzo(k)fluoranthene	<0.41	mg/kg	0.33	SW 8270B	03/08/2001	326
Benzo(g,h,i)perylene	<0.41	mg/kg	0.33	SW 8270B	03/08/2001	326
Benzo(a)pyrene	<0.41	mg/kg	0.33	SW 8270B	03/08/2001	326
Chrysene	<0.41	mg/kg	0.33	SW 8270B	03/08/2001	326
Dibenzo(a,h)anthracene	<0.41	mg/kg	0.33	SW 8270B	03/08/2001	326
Fluoranthene	<0.41	mg/kg	0.33	SW 8270B	03/08/2001	326
Fluorene	<0.41	mg/kg	0.33	SW 8270B	03/08/2001	326
Indeno(1,2,3-cd)pyrene	<0.41	mg/kg	0.33	SW 8270B	03/08/2001	326
2-Methylnaphthalene	<0.41	mg/kg	0.33	SW 8270B	03/08/2001	326
Naphthalene	<0.41	mg/kg	0.33	SW 8270B	03/08/2001	326
Phenanthrene	<0.41	mg/kg	0.33	SW 8270B	03/08/2001	326
Pyrene	<0.41	mg/kg	0.33	SW 8270B	03/08/2001	326
Surr: Nitrobenzene-d5	76.7	%	n/a	SW 8270B	03/08/2001	326
Surr: 2-Fluorobiphenyl	79.8	%	n/a	SW 8270B	03/08/2001	326
Surr: Terphenyl-d14	96.2	%	n/a	SW 8270B	03/08/2001	326
VOC - METHANOL - 8260B						
Benzene	<31	ug/kg	25	SW 8260B	03/06/2001	1147
Bromobenzene	<31	ug/kg	25	SW 8260B	03/06/2001	1147
Bromochloromethane	<31	ug/kg	25	SW 8260B	03/06/2001	1147
Bromodichloromethane	<31	ug/kg	25	SW 8260B	03/06/2001	1147
Bromoform	<31	ug/kg	25	SW 8260B	03/06/2001	1147
Bromomethane	<123	ug/kg	100	SW 8260B	03/06/2001	1147
n-Butylbenzene	<31	ug/kg	25	SW 8260B	03/06/2001	1147
sec-Butylbenzene	<31	ug/kg	25	SW 8260B	03/06/2001	1147
tert-Butylbenzene	<31	ug/kg	25	SW 8260B	03/06/2001	1147
Carbon Tetrachloride	<31	ug/kg	25	SW 8260B	03/06/2001	1147
Chlorobenzene	<31	ug/kg	25	SW 8260B	03/06/2001	1147
Chlorodibromomethane	<31	ug/kg	25	SW 8260B	03/06/2001	1147
Chloroethane	<43	ug/kg	35	SW 8260B	03/06/2001	1147
Chloroform	<31	ug/kg	25	SW 8260B	03/06/2001	1147
Chloromethane	<62	ug/kg	50	SW 8260B	03/06/2001	1147
2-Chlorotoluene	<31	ug/kg	25	SW 8260B	03/06/2001	1147

## ANALYTICAL REPORT

Mr. Dave Trainor  
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 5250 East Terrace Drive  
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03/19/2001  
 Job No: 01.01188  
 Sample No: 428129  
 Account No: 21400  
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JOB DESCRIPTION: 05644-097 NSP/XCEL Ashland  
 PROJECT DESCRIPTION: Sediment Analysis  
 SAMPLE DESCRIPTION: SD-4-4 05644-097 NSP/XCEL  
 Ashland, WI  
 Rec'd on ice

Date/Time Taken: 02/28/2001 17:25

Date Received: 03/02/2001

Parameter	Results	Units	Reporting Limit	Method	Date Analyzed	Prep/Run Batch
4-Chlorotoluene	<31	ug/kg	25	SW 8260B	03/06/2001	1147
1,2-Dibromo-3-Chloropropane	<62	ug/kg	50	SW 8260B	03/06/2001	1147
1,2-Dibromoethane (EDB)	<31	ug/kg	25	SW 8260B	03/06/2001	1147
Dibromomethane	<31	ug/kg	25	SW 8260B	03/06/2001	1147
1,2-Dichlorobenzene	<31	ug/kg	25	SW 8260B	03/06/2001	1147
1,3-Dichlorobenzene	<31	ug/kg	25	SW 8260B	03/06/2001	1147
1,4-Dichlorobenzene	<31	ug/kg	25	SW 8260B	03/06/2001	1147
Dichlorodifluoromethane	<31	ug/kg	25	SW 8260B	03/06/2001	1147
1,1-Dichloroethane	<31	ug/kg	25	SW 8260B	03/06/2001	1147
1,2-Dichloroethane	<31	ug/kg	25	SW 8260B	03/06/2001	1147
1,1-Dichloroethene	<31	ug/kg	25	SW 8260B	03/06/2001	1147
cis-1,2-Dichloroethene	<31	ug/kg	25	SW 8260B	03/06/2001	1147
trans-1,2-Dichloroethene	<31	ug/kg	25	SW 8260B	03/06/2001	1147
1,2-Dichloropropane	<31	ug/kg	25	SW 8260B	03/06/2001	1147
1,3-Dichloropropane	<31	ug/kg	25	SW 8260B	03/06/2001	1147
2,2-Dichloropropane	<31	ug/kg	25	SW 8260B	03/06/2001	1147
1,1-Dichloropropene	<31	ug/kg	25	SW 8260B	03/06/2001	1147
cis-1,3-Dichloropropene	<31	ug/kg	25	SW 8260B	03/06/2001	1147
trans-1,3-Dichloropropene	<31	ug/kg	25	SW 8260B	03/06/2001	1147
Di-isopropyl ether	<31	ug/kg	25	SW 8260B	03/06/2001	1147
Ethylbenzene	<31	ug/kg	25	SW 8260B	03/06/2001	1147
Hexachlorobutadiene	<43	ug/kg	35	SW 8260B	03/06/2001	1147
Isopropylbenzene	<31	ug/kg	25	SW 8260B	03/06/2001	1147
p-Isopropyltoluene	<31	ug/kg	25	SW 8260B	03/06/2001	1147
Methylene Chloride	<62	ug/kg	50	SW 8260B	03/06/2001	1147
Methyl-t-butyl ether	<31	ug/kg	25	SW 8260B	03/06/2001	1147
Naphthalene	<31	ug/kg	25	SW 8260B	03/06/2001	1147
n-Propylbenzene	<31	ug/kg	25	SW 8260B	03/06/2001	1147
Styrene	<31	ug/kg	25	SW 8260B	03/06/2001	1147
1,1,1,2-Tetrachloroethane	<31	ug/kg	25	SW 8260B	03/06/2001	1147
1,1,1,2,2-Tetrachloroethane	<31	ug/kg	25	SW 8260B	03/06/2001	1147
Tetrachloroethene	<31	ug/kg	25	SW 8260B	03/06/2001	1147
Toluene	<31	ug/kg	25	SW 8260B	03/06/2001	1147
1,2,3-Trichlorobenzene	<31	ug/kg	25	SW 8260B	03/06/2001	1147
1,2,4-Trichlorobenzene	<31	ug/kg	25	SW 8260B	03/06/2001	1147
1,1,1-Trichloroethane	<31	ug/kg	25	SW 8260B	03/06/2001	1147
1,1,2-Trichloroethane	<31	ug/kg	25	SW 8260B	03/06/2001	1147
Trichloroethene	<31	ug/kg	25	SW 8260B	03/06/2001	1147
Trichlorofluoromethane	<31	ug/kg	25	SW 8260B	03/06/2001	1147

## ANALYTICAL REPORT

Mr. Dave Trainor  
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 5250 East Terrace Drive  
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03/19/2001  
 Job No: 01.01188  
 Sample No: 428129  
 Account No: 21400  
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JOB DESCRIPTION: 05644-097 NSP/XCEL Ashland  
 PROJECT DESCRIPTION: Sediment Analysis  
 SAMPLE DESCRIPTION: SD-4-4 05644-097 NSP/XCEL  
 Ashland, WI  
 Rec'd on ice

Date/Time Taken: 02/28/2001 17:25      Date Received: 03/02/2001

Parameter	Results	Units	Reporting Limit	Method	Date Analyzed	Prep/Run Batch
1,2,3-Trichloropropane	<31	ug/kg	25	SW 8260B	03/06/2001	1147
1,2,4-Trimethylbenzene	<31	ug/kg	25	SW 8260B	03/06/2001	1147
1,3,5-Trimethylbenzene	<31	ug/kg	25	SW 8260B	03/06/2001	1147
Vinyl Chloride	<31	ug/kg	25	SW 8260B	03/06/2001	1147
Xylenes, Total	<43	ug/kg	35	SW 8260B	03/06/2001	1147
Surr: Dibromofluoromethane	102.6	%	85-113	SW 8260B	03/06/2001	1147
Surr: Toluene-d8	99.6	%	93-105	SW 8260B	03/06/2001	1147
Surr: Bromofluorobenzene	97.4	%	85-111	SW 8260B	03/06/2001	1147

## ANALYTICAL REPORT

Mr. Dave Trainor  
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03/19/2001  
 Job No: 01.01188  
 Sample No: 428130  
 Account No: 21400  
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JOB DESCRIPTION: 05644-097 NSP/XCEL Ashland  
 PROJECT DESCRIPTION: Sediment Analysis  
 SAMPLE DESCRIPTION: SD-4-6 05644-097 NSP/XCEL  
 Ashland, WI  
 Rec'd on ice

Date/Time Taken: 02/28/2001 17:30

Date Received: 03/02/2001

Parameter	Results	Units	Reporting Limit	Method	Date Analyzed	Prep/Run Batch
Solids, Total	83.4	%	n/a	SW 5030	03/09/2001	3579
BASE/NEUTRALS-8270 NONAQUEOUS						
Acenaphthene	<0.40	mg/kg	0.33	SW 8270B	03/08/2001	326
Acenaphthylene	<0.40	mg/kg	0.33	SW 8270B	03/08/2001	326
Anthracene	<0.40	mg/kg	0.33	SW 8270B	03/08/2001	326
Benzo(a)anthracene	<0.40	mg/kg	0.33	SW 8270B	03/08/2001	326
Benzo(b)fluoranthene	<0.40	mg/kg	0.33	SW 8270B	03/08/2001	326
Benzo(k)fluoranthene	<0.40	mg/kg	0.33	SW 8270B	03/08/2001	326
Benzo(g,h,i)perylene	<0.40	mg/kg	0.33	SW 8270B	03/08/2001	326
Benzo(a)pyrene	<0.40	mg/kg	0.33	SW 8270B	03/08/2001	326
Chrysene	<0.40	mg/kg	0.33	SW 8270B	03/08/2001	326
Dibenzo(a,h)anthracene	<0.40	mg/kg	0.33	SW 8270B	03/08/2001	326
Fluoranthene	<0.40	mg/kg	0.33	SW 8270B	03/08/2001	326
Fluorene	<0.40	mg/kg	0.33	SW 8270B	03/08/2001	326
Indeno(1,2,3-cd)pyrene	<0.40	mg/kg	0.33	SW 8270B	03/08/2001	326
2-Methylnaphthalene	<0.40	mg/kg	0.33	SW 8270B	03/08/2001	326
Naphthalene	<0.40	mg/kg	0.33	SW 8270B	03/08/2001	326
Phenanthrene	<0.40	mg/kg	0.33	SW 8270B	03/08/2001	326
Pyrene	<0.40	mg/kg	0.33	SW 8270B	03/08/2001	326
Surr: Nitrobenzene-d5	78.0	%	n/a	SW 8270B	03/08/2001	326
Surr: 2-Fluorobiphenyl	70.9	%	n/a	SW 8270B	03/08/2001	326
Surr: Terphenyl-d14	90.8	%	n/a	SW 8270B	03/08/2001	326
VOC - METHANOL - 8260B						
Benzene	<30	ug/kg	25	SW 8260B	03/07/2001	1149
Bromobenzene	<30	ug/kg	25	SW 8260B	03/07/2001	1149
Bromochloromethane	<30	ug/kg	25	SW 8260B	03/07/2001	1149
Bromodichloromethane	<30	ug/kg	25	SW 8260B	03/07/2001	1149
Bromoform	<30	ug/kg	25	SW 8260B	03/07/2001	1149
Bromomethane	<120	ug/kg	100	SW 8260B	03/07/2001	1149
n-Butylbenzene	<30	ug/kg	25	SW 8260B	03/07/2001	1149
sec-Butylbenzene	<30	ug/kg	25	SW 8260B	03/07/2001	1149
tert-Butylbenzene	<30	ug/kg	25	SW 8260B	03/07/2001	1149
Carbon Tetrachloride	<30	ug/kg	25	SW 8260B	03/07/2001	1149
Chlorobenzene	<30	ug/kg	25	SW 8260B	03/07/2001	1149
Chlorodibromomethane	<30	ug/kg	25	SW 8260B	03/07/2001	1149
Chloroethane	<42	ug/kg	35	SW 8260B	03/07/2001	1149
Chloroform	<30	ug/kg	25	SW 8260B	03/07/2001	1149
Chloromethane	<60	ug/kg	50	SW 8260B	03/07/2001	1149
2-Chlorotoluene	<30	ug/kg	25	SW 8260B	03/07/2001	1149



## ANALYTICAL REPORT

Mr. Dave Trainor  
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03/19/2001  
 Job No: 01.01188  
 Sample No: 428130  
 Account No: 21400  
 Page 100 of 118

JOB DESCRIPTION: 05644-097 NSP/XCEL Ashland  
 PROJECT DESCRIPTION: Sediment Analysis  
 SAMPLE DESCRIPTION: SD-4-6 05644-097 NSP/XCEL  
 Ashland, WI  
 Rec'd on ice

Date/Time Taken: 02/28/2001 17:30

Date Received: 03/02/2001

Parameter	Results	Units	Reporting Limit	Method	Date Analyzed	Prep/Run Batch
4-Chlorotoluene	<30	ug/kg	25	SW 8260B	03/07/2001	1149
1,2-Dibromo-3-Chloropropane	<60	ug/kg	50	SW 8260B	03/07/2001	1149
1,2-Dibromoethane (EDB)	<30	ug/kg	25	SW 8260B	03/07/2001	1149
Dibromomethane	<30	ug/kg	25	SW 8260B	03/07/2001	1149
1,2-Dichlorobenzene	<30	ug/kg	25	SW 8260B	03/07/2001	1149
1,3-Dichlorobenzene	<30	ug/kg	25	SW 8260B	03/07/2001	1149
1,4-Dichlorobenzene	<30	ug/kg	25	SW 8260B	03/07/2001	1149
Dichlorodifluoromethane	<30	ug/kg	25	SW 8260B	03/07/2001	1149
1,1-Dichloroethane	<30	ug/kg	25	SW 8260B	03/07/2001	1149
1,2-Dichloroethane	<30	ug/kg	25	SW 8260B	03/07/2001	1149
1,1-Dichloroethene	<30	ug/kg	25	SW 8260B	03/07/2001	1149
cis-1,2-Dichloroethene	<30	ug/kg	25	SW 8260B	03/07/2001	1149
trans-1,2-Dichloroethene	<30	ug/kg	25	SW 8260B	03/07/2001	1149
1,2-Dichloropropane	<30	ug/kg	25	SW 8260B	03/07/2001	1149
1,3-Dichloropropane	<30	ug/kg	25	SW 8260B	03/07/2001	1149
2,2-Dichloropropane	<30	ug/kg	25	SW 8260B	03/07/2001	1149
1,1-Dichloropropene	<30	ug/kg	25	SW 8260B	03/07/2001	1149
cis-1,3-Dichloropropene	<30	ug/kg	25	SW 8260B	03/07/2001	1149
trans-1,3-Dichloropropene	<30	ug/kg	25	SW 8260B	03/07/2001	1149
Di-isopropyl ether	<30	ug/kg	25	SW 8260B	03/07/2001	1149
Ethylbenzene	<30	ug/kg	25	SW 8260B	03/07/2001	1149
Hexachlorobutadiene	<42	ug/kg	35	SW 8260B	03/07/2001	1149
Isopropylbenzene	<30	ug/kg	25	SW 8260B	03/07/2001	1149
p-Isopropyltoluene	<30	ug/kg	25	SW 8260B	03/07/2001	1149
Methylene Chloride	L 88	ug/kg	50	SW 8260B	03/07/2001	1149
Methyl-t-butyl ether	<30	ug/kg	25	SW 8260B	03/07/2001	1149
Naphthalene	<30	ug/kg	25	SW 8260B	03/07/2001	1149
n-Propylbenzene	<30	ug/kg	25	SW 8260B	03/07/2001	1149
Styrene	<30	ug/kg	25	SW 8260B	03/07/2001	1149
1,1,1,2-Tetrachloroethane	<30	ug/kg	25	SW 8260B	03/07/2001	1149
1,1,2,2-Tetrachloroethane	<30	ug/kg	25	SW 8260B	03/07/2001	1149
Tetrachloroethene	<30	ug/kg	25	SW 8260B	03/07/2001	1149
Toluene	<30	ug/kg	25	SW 8260B	03/07/2001	1149
1,2,3-Trichlorobenzene	<30	ug/kg	25	SW 8260B	03/07/2001	1149
1,2,4-Trichlorobenzene	<30	ug/kg	25	SW 8260B	03/07/2001	1149
1,1,1-Trichloroethane	<30	ug/kg	25	SW 8260B	03/07/2001	1149
1,1,2-Trichloroethane	<30	ug/kg	25	SW 8260B	03/07/2001	1149
Trichloroethene	<30	ug/kg	25	SW 8260B	03/07/2001	1149
Trichlorofluoromethane	<30	ug/kg	25	SW 8260B	03/07/2001	1149

## ANALYTICAL REPORT

Mr. Dave Trainor  
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03/19/2001  
 Job No: 01.01188  
 Sample No: 428130  
 Account No: 21400  
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JOB DESCRIPTION: 05644-097 NSP/XCEL Ashland  
 PROJECT DESCRIPTION: Sediment Analysis  
 SAMPLE DESCRIPTION: SD-4-6 05644-097 NSP/XCEL  
 Ashland, WI  
 Rec'd on ice

Date/Time Taken: 02/28/2001 17:30

Date Received: 03/02/2001

Parameter	Results	Units	Reporting Limit	Method	Date Analyzed	Prep/Run Batch
1,2,3-Trichloropropane	<30	ug/kg	25	SW 8260B	03/07/2001	1149
1,2,4-Trimethylbenzene	<30	ug/kg	25	SW 8260B	03/07/2001	1149
1,3,5-Trimethylbenzene	<30	ug/kg	25	SW 8260B	03/07/2001	1149
Vinyl Chloride	<30	ug/kg	25	SW 8260B	03/07/2001	1149
Xylenes, Total	<42	ug/kg	35	SW 8260B	03/07/2001	1149
Surr: Dibromofluoromethane	99.4	%	85-113	SW 8260B	03/07/2001	1149
Surr: Toluene-d8	99.8	%	93-105	SW 8260B	03/07/2001	1149
Surr: Bromofluorobenzene	95.8	%	85-111	SW 8260B	03/07/2001	1149

## ANALYTICAL REPORT

Mr. Dave Trainor  
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03/19/2001  
 Job No: 01.01188  
 Sample No: 428131  
 Account No: 21400  
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JOB DESCRIPTION: 05644-097 NSP/XCEL Ashland  
 PROJECT DESCRIPTION: Sediment Analysis  
 SAMPLE DESCRIPTION: SD-4-8 05644-097 NSP/XCEL  
 Ashland, WI  
 Rec'd on ice

Date/Time Taken: 02/28/2001 17:35

Date Received: 03/02/2001

Parameter	Results	Units	Reporting Limit	Method	Date Analyzed	Prep/Run Batch
Solids, Total	83.3	%	n/a	SW 5030	03/09/2001	3579
BASE/NEUTRALS-8270 NONAQUEOUS						
Acenaphthene	<0.40	mg/kg	0.33	SW 8270B	03/08/2001	326
Acenaphthylene	<0.40	mg/kg	0.33	SW 8270B	03/08/2001	326
Anthracene	<0.40	mg/kg	0.33	SW 8270B	03/08/2001	326
Benzo(a)anthracene	<0.40	mg/kg	0.33	SW 8270B	03/08/2001	326
Benzo(b)fluoranthene	<0.40	mg/kg	0.33	SW 8270B	03/08/2001	326
Benzo(k)fluoranthene	<0.40	mg/kg	0.33	SW 8270B	03/08/2001	326
Benzo(g,h,i)perylene	<0.40	mg/kg	0.33	SW 8270B	03/08/2001	326
Benzo(a)pyrene	<0.40	mg/kg	0.33	SW 8270B	03/08/2001	326
Chrysene	<0.40	mg/kg	0.33	SW 8270B	03/08/2001	326
Dibenzo(a,h)anthracene	<0.40	mg/kg	0.33	SW 8270B	03/08/2001	326
Fluoranthene	<0.40	mg/kg	0.33	SW 8270B	03/08/2001	326
Fluorene	<0.40	mg/kg	0.33	SW 8270B	03/08/2001	326
Indeno(1,2,3-cd)pyrene	<0.40	mg/kg	0.33	SW 8270B	03/08/2001	326
2-Methylnaphthalene	<0.40	mg/kg	0.33	SW 8270B	03/08/2001	326
Naphthalene	<0.40	mg/kg	0.33	SW 8270B	03/08/2001	326
Phenanthrene	<0.40	mg/kg	0.33	SW 8270B	03/08/2001	326
Pyrene	<0.40	mg/kg	0.33	SW 8270B	03/08/2001	326
Surr: Nitrobenzene-d5	75.3	%	n/a	SW 8270B	03/08/2001	326
Surr: 2-Fluorobiphenyl	70.4	%	n/a	SW 8270B	03/08/2001	326
Surr: Terphenyl-d14	98.8	%	n/a	SW 8270B	03/08/2001	326
VOC - METHANOL - 8260B						
Benzene	55	ug/kg	25	SW 8260B	03/07/2001	1149
Bromobenzene	<30	ug/kg	25	SW 8260B	03/07/2001	1149
Bromochloromethane	<30	ug/kg	25	SW 8260B	03/07/2001	1149
Bromodichloromethane	<30	ug/kg	25	SW 8260B	03/07/2001	1149
Bromoform	<30	ug/kg	25	SW 8260B	03/07/2001	1149
Bromomethane	<120	ug/kg	100	SW 8260B	03/07/2001	1149
n-Butylbenzene	<30	ug/kg	25	SW 8260B	03/07/2001	1149
sec-Butylbenzene	<30	ug/kg	25	SW 8260B	03/07/2001	1149
tert-Butylbenzene	<30	ug/kg	25	SW 8260B	03/07/2001	1149
Carbon Tetrachloride	<30	ug/kg	25	SW 8260B	03/07/2001	1149
Chlorobenzene	<30	ug/kg	25	SW 8260B	03/07/2001	1149
Chlorodibromomethane	<30	ug/kg	25	SW 8260B	03/07/2001	1149
Chloroethane	<42	ug/kg	35	SW 8260B	03/07/2001	1149
Chloroform	<30	ug/kg	25	SW 8260B	03/07/2001	1149
Chloromethane	<60	ug/kg	50	SW 8260B	03/07/2001	1149
2-Chlorotoluene	<30	ug/kg	25	SW 8260B	03/07/2001	1149

## ANALYTICAL REPORT

Mr. Dave Trainor  
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03/19/2001  
 Job No: 01.01188  
 Sample No: 428131  
 Account No: 21400  
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JOB DESCRIPTION: 05644-097 NSP/XCEL Ashland  
 PROJECT DESCRIPTION: Sediment Analysis  
 SAMPLE DESCRIPTION: SD-4-8 05644-097 NSP/XCEL  
 Ashland, WI  
 Rec'd on ice

Date/Time Taken: 02/28/2001 17:35

Date Received: 03/02/2001

Parameter	Results	Units	Reporting Limit	Method	Date Analyzed	Prep/Run Batch
4-Chlorotoluene	<30	ug/kg	25	SW 8260B	03/07/2001	1149
1,2-Dibromo-3-Chloropropane	<60	ug/kg	50	SW 8260B	03/07/2001	1149
1,2-Dibromoethane (EDB)	<30	ug/kg	25	SW 8260B	03/07/2001	1149
Dibromomethane	<30	ug/kg	25	SW 8260B	03/07/2001	1149
1,2-Dichlorobenzene	<30	ug/kg	25	SW 8260B	03/07/2001	1149
1,3-Dichlorobenzene	<30	ug/kg	25	SW 8260B	03/07/2001	1149
1,4-Dichlorobenzene	<30	ug/kg	25	SW 8260B	03/07/2001	1149
Dichlorodifluoromethane	<30	ug/kg	25	SW 8260B	03/07/2001	1149
1,1-Dichloroethane	<30	ug/kg	25	SW 8260B	03/07/2001	1149
1,2-Dichloroethane	<30	ug/kg	25	SW 8260B	03/07/2001	1149
1,1-Dichloroethene	<30	ug/kg	25	SW 8260B	03/07/2001	1149
cis-1,2-Dichloroethene	<30	ug/kg	25	SW 8260B	03/07/2001	1149
trans-1,2-Dichloroethene	<30	ug/kg	25	SW 8260B	03/07/2001	1149
1,2-Dichloropropane	<30	ug/kg	25	SW 8260B	03/07/2001	1149
1,3-Dichloropropane	<30	ug/kg	25	SW 8260B	03/07/2001	1149
2,2-Dichloropropane	<30	ug/kg	25	SW 8260B	03/07/2001	1149
1,1-Dichloropropene	<30	ug/kg	25	SW 8260B	03/07/2001	1149
cis-1,3-Dichloropropene	<30	ug/kg	25	SW 8260B	03/07/2001	1149
trans-1,3-Dichloropropene	<30	ug/kg	25	SW 8260B	03/07/2001	1149
Di-isopropyl ether	<30	ug/kg	25	SW 8260B	03/07/2001	1149
Ethylbenzene	<30	ug/kg	25	SW 8260B	03/07/2001	1149
Hexachlorobutadiene	<42	ug/kg	35	SW 8260B	03/07/2001	1149
Isopropylbenzene	<30	ug/kg	25	SW 8260B	03/07/2001	1149
p-Isopropyltoluene	<30	ug/kg	25	SW 8260B	03/07/2001	1149
Methylene Chloride	420	ug/kg	50	SW 8260B	03/07/2001	1149
Methyl-t-butyl ether	<30	ug/kg	25	SW 8260B	03/07/2001	1149
Naphthalene	<30	ug/kg	25	SW 8260B	03/07/2001	1149
n-Propylbenzene	<30	ug/kg	25	SW 8260B	03/07/2001	1149
Styrene	<30	ug/kg	25	SW 8260B	03/07/2001	1149
1,1,1,2-Tetrachloroethane	<30	ug/kg	25	SW 8260B	03/07/2001	1149
1,1,2,2-Tetrachloroethane	<30	ug/kg	25	SW 8260B	03/07/2001	1149
Tetrachloroethene	<30	ug/kg	25	SW 8260B	03/07/2001	1149
Toluene	<30	ug/kg	25	SW 8260B	03/07/2001	1149
1,2,3-Trichlorobenzene	<30	ug/kg	25	SW 8260B	03/07/2001	1149
1,2,4-Trichlorobenzene	<30	ug/kg	25	SW 8260B	03/07/2001	1149
1,1,1-Trichloroethane	<30	ug/kg	25	SW 8260B	03/07/2001	1149
1,1,2-Trichloroethane	<30	ug/kg	25	SW 8260B	03/07/2001	1149
Trichloroethene	<30	ug/kg	25	SW 8260B	03/07/2001	1149
Trichlorofluoromethane	<30	ug/kg	25	SW 8260B	03/07/2001	1149

## ANALYTICAL REPORT

Mr. Dave Trainor  
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03/19/2001  
 Job No: 01.01188  
 Sample No: 428131  
 Account No: 21400  
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JOB DESCRIPTION: 05644-097 NSP/XCEL Ashland  
 PROJECT DESCRIPTION: Sediment Analysis  
 SAMPLE DESCRIPTION: SD-4-8 05644-097 NSP/XCEL  
 Ashland, WI  
 Rec'd on ice

Date/Time Taken: 02/28/2001 17:35

Date Received: 03/02/2001

Parameter	Results	Units	Reporting Limit	Method	Date Analyzed	Prep/Run Batch
1,2,3-Trichloropropane	<30	ug/kg	25	SW 8260B	03/07/2001	1149
1,2,4-Trimethylbenzene	<30	ug/kg	25	SW 8260B	03/07/2001	1149
1,3,5-Trimethylbenzene	<30	ug/kg	25	SW 8260B	03/07/2001	1149
Vinyl Chloride	<30	ug/kg	25	SW 8260B	03/07/2001	1149
Xylenes, Total	<42	ug/kg	35	SW 8260B	03/07/2001	1149
Surr: Dibromofluoromethane	100.2	%	85-113	SW 8260B	03/07/2001	1149
Surr: Toluene-d8	96.8	%	93-105	SW 8260B	03/07/2001	1149
Surr: Bromofluorobenzene	98.8	%	85-111	SW 8260B	03/07/2001	1149

## QUALITY CONTROL REPORT CONTINUING CALIBRATION VERIFICATION

03/19/2001

Mr. Dave Trainor  
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5250 East Terrace Drive  
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Madison, WI 53718

Job No: 01.01188  
Account No: 21400

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Job Description: 05644-097 NSP/XCEL Ashland

Parameter	Run Batch	True Value	Observed Value	Percent Recovery	Control Limits	Analyst
BASE/NEUTRALS-8270 NONAQUEO						
Acenaphthene	326	50	48.6	97.2		bdd
Pyrene	326	50	49.6	99.2		bdd
Surr: Nitrobenzene-d5	326	100	110.0	110.0		bdd
Surr: 2-Flurobiphenyl	326	100	98.8	98.8		bdd
Surr: Terphenyl-d14	326	100	98.8	98.8		bdd
BASE/NEUTRALS-8270 NONAQUEO						
Acenaphthene	327	50	48.5	97.0		bdd
Pyrene	327	50	49.4	98.8		bdd
Surr: Nitrobenzene-d5	327	100	113.0	113.0		bdd
Surr: 2-Flurobiphenyl	327	100	99.4	99.4		bdd
Surr: Terphenyl-d14	327	100	98.6	98.6		bdd
BASE/NEUTRALS-8270 NONAQUEO						
Acenaphthene	328	50	48.5	97.0		bdd
Pyrene	328	50	49.1	98.2		bdd
Surr: Nitrobenzene-d5	328	100	97.6	97.6		bdd
Surr: 2-Flurobiphenyl	328	100	96.1	96.1		bdd
Surr: Terphenyl-d14	328	100	98.1	98.1		bdd
VOC - METHANOL - 8260B						
Benzene	1145	50.0	48.6	97.2		aba
Bromoform	1145	50.0	48.0	96.0		aba
Chlorobenzene	1145	50.0	48.3	96.6		aba
Chloroform	1145	50.0	50.0	100.0	80 - 120	aba
Chloromethane	1145	50.0	53.4	106.8		aba
1,1-Dichloroethane	1145	50.0	48.9	97.8		aba
1,1-Dichloroethene	1145	50.0	50.7	101.4	80 - 120	aba
1,2-Dichloropropane	1145	50.0	50.6	101.2	80 - 120	aba
Di-isopropyl ether	1145	50.0	47.1	94.2		aba
Ethylbenzene	1145	50.0	49.6	99.2	80 - 120	aba
Methyl-t-butyl ether	1145	50.0	44.4	88.8		aba
1,1,2,2-Tetrachloroethane	1145	50.0	43.9	87.8		aba
Toluene	1145	50.0	49.7	99.4	80 - 120	aba
Trichloroethene	1145	50.0	49.5	99.0		aba
1,2,4-Trimethylbenzene	1145	50.0	49.8	99.6		aba
1,3,5-Trimethylbenzene	1145	50.0	49.4	98.8		aba
Vinyl Chloride	1145	50.0	51.2	102.4	80 - 120	aba
Xylenes, Total	1145	150	150	100.0		aba
Surr: Dibromofluoromethane	1145	50.0	51.0	102.0	85 - 118	aba
Surr: Toluene-d8	1145	50.0	50.3	100.6	91 - 109	aba
Surr: Bromofluorobenzene	1145	50.0	50.1	100.2	85 - 113	aba
VOC - METHANOL - 8260B						
Benzene	1147	50.0	49.9	99.8		aba

## QUALITY CONTROL REPORT CONTINUING CALIBRATION VERIFICATION

03/19/2001

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Job Description: 05644-097 NSP/XCEL Ashland

Parameter	Run Batch	True Value	Observed Value	Percent Recovery	Control Limits	Analyst
Bromoform	1147	50.0	49.1	98.2		aba
Chlorobenzene	1147	50.0	48.5	97.0		aba
Chloroform	1147	50.0	50.0	100.0	80 - 120	aba
Chloromethane	1147	50.0	52.4	104.8		aba
1,1-Dichloroethane	1147	50.0	50.1	100.2		aba
1,1-Dichloroethene	1147	50.0	50.6	101.2	80 - 120	aba
1,2-Dichloropropane	1147	50.0	51.1	102.2	80 - 120	aba
Di-isopropyl ether	1147	50.0	49.1	98.2		aba
Ethylbenzene	1147	50.0	50.8	101.6	80 - 120	aba
Methyl-t-butyl ether	1147	50.0	52.7	105.4		aba
1,1,2,2-Tetrachloroethane	1147	50.0	51.8	103.6		aba
Toluene	1147	50.0	50.3	100.6	80 - 120	aba
Trichloroethene	1147	50.0	50.7	101.4		aba
1,2,4-Trimethylbenzene	1147	50.0	49.2	98.4		aba
1,3,5-Trimethylbenzene	1147	50.0	49.9	99.8		aba
Vinyl Chloride	1147	50.0	53.1	106.2	80 - 120	aba
Xylenes, Total	1147	150	150	100.0		aba
Surr: Dibromofluoromethane	1147	50.0	50.6	101.2	85 - 118	aba
Surr: Toluene-d8	1147	50.0	50.0	100.0	91 - 109	aba
Surr: Bromofluorobenzene	1147	50.0	49.5	99.0	85 - 113	aba
VOC - METHANOL - 8260B						
Benzene	1148	50.0	49.8	99.6		aba
Bromoform	1148	50.0	43.1	86.2		aba
Chlorobenzene	1148	50.0	49.3	98.6		aba
Chloroform	1148	50.0	51.4	102.8	80 - 120	aba
Chloromethane	1148	50.0	49.5	99.0		aba
1,1-Dichloroethane	1148	50.0	52.4	104.8		aba
1,1-Dichloroethene	1148	50.0	53.3	106.6	80 - 120	aba
1,2-Dichloropropane	1148	50.0	49.3	98.6	80 - 120	aba
Di-isopropyl ether	1148	50.0	49.6	99.2		aba
Ethylbenzene	1148	50.0	49.0	98.0	80 - 120	aba
Methyl-t-butyl ether	1148	50.0	53.8	107.6		aba
1,1,2,2-Tetrachloroethane	1148	50.0	42.9	85.8		aba
Toluene	1148	50.0	50.0	100.0	80 - 120	aba
Trichloroethene	1148	50.0	52.1	104.2		aba
1,2,4-Trimethylbenzene	1148	50.0	48.6	97.2		aba
1,3,5-Trimethylbenzene	1148	50.0	48.7	97.4		aba
Vinyl Chloride	1148	50.0	50.9	101.8	80 - 120	aba
Xylenes, Total	1148	150	148	98.7		aba
Surr: Dibromofluoromethane	1148	50.0	50.2	100.4	85 - 118	aba
Surr: Toluene-d8	1148	50.0	50.3	100.6	91 - 109	aba
Surr: Bromofluorobenzene	1148	50.0	50.0	100.0	85 - 113	aba

## QUALITY CONTROL REPORT CONTINUING CALIBRATION VERIFICATION

03/19/2001

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Job Description: 05644-097 NSP/XCEL Ashland

Parameter	Run Batch	True Value	Observed Value	Percent Recovery	Control Limits	Analyst
VOC - METHANOL - 8260B						
Benzene	1149	50.0	50.4	100.8		aba
Bromoform	1149	50.0	49.8	99.6		aba
Chlorobenzene	1149	50.0	49.1	98.2		aba
Chloroform	1149	50.0	50.1	100.2	80 - 120	aba
Chloromethane	1149	50.0	52.2	104.4		aba
1,1-Dichloroethane	1149	50.0	49.6	99.2		aba
1,1-Dichloroethene	1149	50.0	46.4	92.8	80 - 120	aba
1,2-Dichloropropane	1149	50.0	51.6	103.2	80 - 120	aba
Di-isopropyl ether	1149	50.0	50.7	101.4		aba
Ethylbenzene	1149	50.0	52.0	104.0	80 - 120	aba
Methyl-t-butyl ether	1149	50.0	52.0	104.0		aba
1,1,2,2-Tetrachloroethane	1149	50.0	52.3	104.6		aba
Toluene	1149	50.0	51.0	102.0	80 - 120	aba
Trichloroethene	1149	50.0	52.0	104.0		aba
1,2,4-Trimethylbenzene	1149	50.0	50.2	100.4		aba
1,3,5-Trimethylbenzene	1149	50.0	51.0	102.0		aba
Vinyl Chloride	1149	50.0	52.6	105.2	80 - 120	aba
Xylenes, Total	1149	150	152	101.3		aba
Surr: Dibromofluoromethane	1149	50.0	50.1	100.2	85 - 118	aba
Surr: Toluene-d8	1149	50.0	50.0	100.0	91 - 109	aba
Surr: Bromofluorobenzene	1149	50.0	50.9	101.8	85 - 113	aba
VOC - METHANOL - 8260B						



## QUALITY CONTROL REPORT

### BLANKS

03/19/2001

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Job Description: 05644-097 NSP/XCEL Ashland

Parameter	Prep Batch	Run Batch	Blank Result	Reporting Limit	Units
BASE/NEUTRALS-8270 NONAQUEOUS					
Acenaphthene		326	<0.33	0.33	mg/kg
Acenaphthylene		326	<0.33	0.33	mg/kg
Anthracene		326	<0.33	0.33	mg/kg
Benzo (a) anthracene		326	<0.33	0.33	mg/kg
Benzo (b) fluoranthene		326	<0.33	0.33	mg/kg
Benzo (k) fluoranthene		326	<0.33	0.33	mg/kg
Benzo (g, h, i) perylene		326	<0.33	0.33	mg/kg
Benzo (a) pyrene		326	<0.33	0.33	mg/kg
Chrysene		326	<0.33	0.33	mg/kg
Dibenzo (a, h) anthracene		326	<0.33	0.33	mg/kg
Fluoranthene		326	<0.33	0.33	mg/kg
Fluorene		326	<0.33	0.33	mg/kg
Indeno (1, 2, 3-cd) pyrene		326	<0.33	0.33	mg/kg
2-Methylnaphthalene		326	<0.33	0.33	mg/kg
Naphthalene		326	<0.33	0.33	mg/kg
Phenanthrene		326	<0.33	0.33	mg/kg
Pyrene		326	<0.33	0.33	mg/kg
Surr: Nitrobenzene-d5		326	87.9	n/a	%
Surr: 2-Fluorobiphenyl		326	79.5	n/a	%
Surr: Terphenyl-d14		326	112.0	n/a	%
BASE/NEUTRALS-8270 NONAQUEOUS					
Acenaphthene		327	<0.33	0.33	mg/kg
Acenaphthylene		327	<0.33	0.33	mg/kg
Anthracene		327	<0.33	0.33	mg/kg
Benzo (a) anthracene		327	<0.33	0.33	mg/kg
Benzo (b) fluoranthene		327	<0.33	0.33	mg/kg
Benzo (k) fluoranthene		327	<0.33	0.33	mg/kg
Benzo (g, h, i) perylene		327	<0.33	0.33	mg/kg
Benzo (a) pyrene		327	<0.33	0.33	mg/kg
Chrysene		327	<0.33	0.33	mg/kg
Dibenzo (a, h) anthracene		327	<0.33	0.33	mg/kg
Fluoranthene		327	<0.33	0.33	mg/kg
Fluorene		327	<0.33	0.33	mg/kg
Indeno (1, 2, 3-cd) pyrene		327	<0.33	0.33	mg/kg
2-Methylnaphthalene		327	<0.33	0.33	mg/kg
Naphthalene		327	<0.33	0.33	mg/kg

Method blank results exceed control limits when results are higher than the highest of any of the following: 1 - The limit of detection; 2 - Five percent of the regulatory limit for that analyte; 3 - Five percent of the measured concentration in the sample. NR149.14 (3)d

## QUALITY CONTROL REPORT BLANKS

03/19/2001

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Madison, WI 53718

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Job Description: 05644-097 NSP/XCEL Ashland

Parameter	Prep Batch	Run Batch	Blank Result	Reporting Limit	Units
Phenanthrene		327	<0.33	0.33	mg/kg
Pyrene		327	<0.33	0.33	mg/kg
Surr: Nitrobenzene-d5		327	67.6	n/a	%
Surr: 2-Fluorobiphenyl		327	71.2	n/a	%
Surr: Terphenyl-d14		327	95.4	n/a	%
BASE/NEUTRALS-8270 NONAQUEOUS					
Acenaphthene		328	<0.33	0.33	mg/kg
Acenaphthylene		328	<0.33	0.33	mg/kg
Anthracene		328	<0.33	0.33	mg/kg
Benzo (a) anthracene		328	<0.33	0.33	mg/kg
Benzo (b) fluoranthene		328	<0.33	0.33	mg/kg
Benzo (k) fluoranthene		328	<0.33	0.33	mg/kg
Benzo (g, h, i) perylene		328	<0.33	0.33	mg/kg
Benzo (a) pyrene		328	<0.33	0.33	mg/kg
Chrysene		328	<0.33	0.33	mg/kg
Dibenzo (a, h) anthracene		328	<0.33	0.33	mg/kg
Fluoranthene		328	<0.33	0.33	mg/kg
Fluorene		328	<0.33	0.33	mg/kg
Indeno (1, 2, 3-cd) pyrene		328	<0.33	0.33	mg/kg
2-Methylnaphthalene		328	<0.33	0.33	mg/kg
Naphthalene		328	<0.33	0.33	mg/kg
Phenanthrene		328	<0.33	0.33	mg/kg
Pyrene		328	<0.33	0.33	mg/kg
Surr: Nitrobenzene-d5		328	70.4	n/a	%
Surr: 2-Fluorobiphenyl		328	69.3	n/a	%
Surr: Terphenyl-d14		328	87.7	n/a	%
VOC - METHANOL - 8260B					
Benzene		1145	<25	25	ug/kg
Bromobenzene		1145	<25	25	ug/kg
Bromochloromethane		1145	<25	25	ug/kg
Bromodichloromethane		1145	<25	25	ug/kg
Bromoform		1145	<25	25	ug/kg
Bromomethane		1145	<100	100	ug/kg
n-Butylbenzene		1145	<25	25	ug/kg
sec-Butylbenzene		1145	<25	25	ug/kg
tert-Butylbenzene		1145	<25	25	ug/kg
Carbon Tetrachloride		1145	<25	25	ug/kg

Method blank results exceed control limits when results are higher than the highest of any of the following: 1 - The limit of detection; 2 - Five percent of the regulatory limit for that analyte; 3 - Five percent of the measured concentration in the sample. NR149.14 (3)d

## QUALITY CONTROL REPORT

### BLANKS

03/19/2001

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Job Description: 05644-097 NSP/XCEL Ashland

Parameter	Prep Batch	Run Batch	Blank Result	Reporting Limit	Units
Chlorobenzene		1145	<25	25	ug/kg
Chlorodibromomethane		1145	<25	25	ug/kg
Chloroethane		1145	<35	35	ug/kg
Chloroform		1145	<25	25	ug/kg
Chloromethane		1145	<50	50	ug/kg
2-Chlorotoluene		1145	<25	25	ug/kg
4-Chlorotoluene		1145	<25	25	ug/kg
1,2-Dibromo-3-Chloropropane		1145	<50	50	ug/kg
1,2-Dibromoethane (EDB)		1145	<25	25	ug/kg
Dibromomethane		1145	<25	25	ug/kg
1,2-Dichlorobenzene		1145	<25	25	ug/kg
1,3-Dichlorobenzene		1145	<25	25	ug/kg
1,4-Dichlorobenzene		1145	<25	25	ug/kg
Dichlorodifluoromethane		1145	<25	25	ug/kg
1,1-Dichloroethane		1145	<25	25	ug/kg
1,2-Dichloroethane		1145	<25	25	ug/kg
1,1-Dichloroethene		1145	<25	25	ug/kg
cis-1,2-Dichloroethene		1145	<25	25	ug/kg
trans-1,2-Dichloroethene		1145	<25	25	ug/kg
1,2-Dichloropropane		1145	<25	25	ug/kg
1,3-Dichloropropane		1145	<25	25	ug/kg
2,2-Dichloropropane		1145	<25	25	ug/kg
1,1-Dichloropropene		1145	<25	25	ug/kg
cis-1,3-Dichloropropene		1145	<25	25	ug/kg
trans-1,3-Dichloropropene		1145	<25	25	ug/kg
Di-isopropyl ether		1145	<25	25	ug/kg
Ethylbenzene		1145	<25	25	ug/kg
Hexachlorobutadiene		1145	<35	35	ug/kg
Isopropylbenzene		1145	<25	25	ug/kg
p-Isopropyltoluene		1145	<25	25	ug/kg
Methylene Chloride		1145	<50	50	ug/kg
Methyl-t-butyl ether		1145	<25	25	ug/kg
Naphthalene		1145	<25	25	ug/kg
n-Propylbenzene		1145	<25	25	ug/kg
Styrene		1145	<25	25	ug/kg
1,1,1,2-Tetrachloroethane		1145	<25	25	ug/kg
1,1,2,2-Tetrachloroethane		1145	<25	25	ug/kg

Method blank results exceed control limits when results are higher than the highest of any of the following: 1 - The limit of detection; 2 - Five percent of the regulatory limit for that analyte; 3 - Five percent of the measured concentration in the sample. NR149.14 (3)d

## QUALITY CONTROL REPORT

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03/19/2001

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Job Description: 05644-097 NSP/XCEL Ashland

Parameter	Prep Batch	Run Batch	Blank Result	Reporting Limit	Units
Tetrachloroethene		1145	<25	25	ug/kg
Toluene		1145	<25	25	ug/kg
1,2,3-Trichlorobenzene		1145	<25	25	ug/kg
1,2,4-Trichlorobenzene		1145	<25	25	ug/kg
1,1,1-Trichloroethane		1145	<25	25	ug/kg
1,1,2-Trichloroethane		1145	<25	25	ug/kg
Trichloroethene		1145	<25	25	ug/kg
Trichlorofluoromethane		1145	<25	25	ug/kg
1,2,3-Trichloropropane		1145	<25	25	ug/kg
1,2,4-Trimethylbenzene		1145	<25	25	ug/kg
1,3,5-Trimethylbenzene		1145	<25	25	ug/kg
Vinyl Chloride		1145	<25	25	ug/kg
Xylenes, Total		1145	<35	35	ug/kg
Surr: Dibromofluoromethane		1145	101.2	85-113	%
Surr: Toluene-d8		1145	99.4	93-105	%
Surr: Bromofluorobenzene		1145	96.2	85-111	%
VOC - METHANOL - 8260B					
Benzene		1147	<25	25	ug/kg
Bromobenzene		1147	<25	25	ug/kg
Bromochloromethane		1147	<25	25	ug/kg
Bromodichloromethane		1147	<25	25	ug/kg
Bromoform		1147	<25	25	ug/kg
Bromomethane		1147	<100	100	ug/kg
n-Butylbenzene		1147	<25	25	ug/kg
sec-Butylbenzene		1147	<25	25	ug/kg
tert-Butylbenzene		1147	<25	25	ug/kg
Carbon Tetrachloride		1147	<25	25	ug/kg
Chlorobenzene		1147	<25	25	ug/kg
Chlorodibromomethane		1147	<25	25	ug/kg
Chloroethane		1147	<35	35	ug/kg
Chloroform		1147	<25	25	ug/kg
Chloromethane		1147	<50	50	ug/kg
2-Chlorotoluene		1147	<25	25	ug/kg
4-Chlorotoluene		1147	<25	25	ug/kg
1,2-Dibromo-3-Chloropropane		1147	<50	50	ug/kg
1,2-Dibromoethane (EDB)		1147	<25	25	ug/kg
Dibromomethane		1147	<25	25	ug/kg

Method blank results exceed control limits when results are higher than the highest of any of the following: 1 - The limit of detection; 2 - Five percent of the regulatory limit for that analyte; 3 - Five percent of the measured concentration in the sample. NR149.14 (3)d

## QUALITY CONTROL REPORT

### BLANKS

03/19/2001

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Job Description: 05644-097 NSP/XCEL Ashland

Parameter	Prep Batch	Run Batch	Blank Result	Reporting Limit	Units
1,2-Dichlorobenzene		1147	<25	25	ug/kg
1,3-Dichlorobenzene		1147	<25	25	ug/kg
1,4-Dichlorobenzene		1147	<25	25	ug/kg
Dichlorodifluoromethane		1147	<25	25	ug/kg
1,1-Dichloroethane		1147	<25	25	ug/kg
1,2-Dichloroethane		1147	<25	25	ug/kg
1,1-Dichloroethene		1147	<25	25	ug/kg
cis-1,2-Dichloroethene		1147	<25	25	ug/kg
trans-1,2-Dichloroethene		1147	<25	25	ug/kg
1,2-Dichloropropane		1147	<25	25	ug/kg
1,3-Dichloropropane		1147	<25	25	ug/kg
2,2-Dichloropropane		1147	<25	25	ug/kg
1,1-Dichloropropene		1147	<25	25	ug/kg
cis-1,3-Dichloropropene		1147	<25	25	ug/kg
trans-1,3-Dichloropropene		1147	<25	25	ug/kg
Di-isopropyl ether		1147	<25	25	ug/kg
Ethylbenzene		1147	<25	25	ug/kg
Hexachlorobutadiene		1147	<35	35	ug/kg
Isopropylbenzene		1147	<25	25	ug/kg
p-Isopropyltoluene		1147	<25	25	ug/kg
Methylene Chloride		1147	<50	50	ug/kg
Methyl-t-butyl ether		1147	<25	25	ug/kg
Naphthalene		1147	<25	25	ug/kg
n-Propylbenzene		1147	<25	25	ug/kg
Styrene		1147	<25	25	ug/kg
1,1,1,2-Tetrachloroethane		1147	<25	25	ug/kg
1,1,2,2-Tetrachloroethane		1147	<25	25	ug/kg
Tetrachloroethene		1147	<25	25	ug/kg
Toluene		1147	<25	25	ug/kg
1,2,3-Trichlorobenzene		1147	<25	25	ug/kg
1,2,4-Trichlorobenzene		1147	<25	25	ug/kg
1,1,1-Trichloroethane		1147	<25	25	ug/kg
1,1,2-Trichloroethane		1147	<25	25	ug/kg
Trichloroethene		1147	<25	25	ug/kg
Trichlorofluoromethane		1147	<25	25	ug/kg
1,2,3-Trichloropropane		1147	<25	25	ug/kg
1,2,4-Trimethylbenzene		1147	<25	25	ug/kg

Method blank results exceed control limits when results are higher than the highest of any of the following: 1 - The limit of detection; 2 - Five percent of the regulatory limit for that analyte; 3 - Five percent of the measured concentration in the sample. NR149.14 (3)d

## QUALITY CONTROL REPORT BLANKS

03/19/2001

Mr. Dave Trainor  
URS/DAMES & MOORE  
5250 East Terrace Drive  
Suite I  
Madison, WI 53718

Job No: 01.01188  
Account No: 21400

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Job Description: 05644-097 NSP/XCEL Ashland

Parameter	Prep Batch	Run Batch	Blank Result	Reporting Limit	Units
1,3,5-Trimethylbenzene		1147	<25	25	ug/kg
Vinyl Chloride		1147	<25	25	ug/kg
Xylenes, Total		1147	<35	35	ug/kg
Surr: Dibromofluoromethane		1147	99.9	85-113	%
Surr: Toluene-d8		1147	100.1	93-105	%
Surr: Bromofluorobenzene		1147	100.0	85-111	%
VOC - METHANOL - 8260B					
Benzene		1148	<25	25	ug/kg
Bromobenzene		1148	<25	25	ug/kg
Bromochloromethane		1148	<25	25	ug/kg
Bromodichloromethane		1148	<25	25	ug/kg
Bromoform		1148	<25	25	ug/kg
Bromomethane		1148	<100	100	ug/kg
n-Butylbenzene		1148	<25	25	ug/kg
sec-Butylbenzene		1148	<25	25	ug/kg
tert-Butylbenzene		1148	<25	25	ug/kg
Carbon Tetrachloride		1148	<25	25	ug/kg
Chlorobenzene		1148	<25	25	ug/kg
Chlorodibromomethane		1148	<25	25	ug/kg
Chloroethane		1148	<35	35	ug/kg
Chloroform		1148	<25	25	ug/kg
Chloromethane		1148	<50	50	ug/kg
2-Chlorotoluene		1148	<25	25	ug/kg
4-Chlorotoluene		1148	<25	25	ug/kg
1,2-Dibromo-3-Chloropropane		1148	<50	50	ug/kg
1,2-Dibromoethane (EDB)		1148	<25	25	ug/kg
Dibromomethane		1148	<25	25	ug/kg
1,2-Dichlorobenzene		1148	<25	25	ug/kg
1,3-Dichlorobenzene		1148	<25	25	ug/kg
1,4-Dichlorobenzene		1148	<25	25	ug/kg
Dichlorodifluoromethane		1148	<25	25	ug/kg
1,1-Dichloroethane		1148	<25	25	ug/kg
1,2-Dichloroethane		1148	<25	25	ug/kg
1,1-Dichloroethene		1148	<25	25	ug/kg
cis-1,2-Dichloroethene		1148	<25	25	ug/kg
trans-1,2-Dichloroethene		1148	<25	25	ug/kg
1,2-Dichloropropane		1148	<25	25	ug/kg

Method blank results exceed control limits when results are higher than the highest of any of the following: 1 - The limit of detection; 2 - Five percent of the regulatory limit for that analyte; 3 - Five percent of the measured concentration in the sample. NR149.14 (3)d

## QUALITY CONTROL REPORT

### BLANKS

03/19/2001

Mr. Dave Trainor  
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 5250 East Terrace Drive  
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 Madison, WI 53718

Job No: 01.01188  
 Account No: 21400

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Job Description: 05644-097 NSP/XCEL Ashland

Parameter	Prep Batch	Run Batch	Blank Result	Reporting Limit	Units
1,3-Dichloropropane		1148	<25	25	ug/kg
2,2-Dichloropropane		1148	<25	25	ug/kg
1,1-Dichloropropene		1148	<25	25	ug/kg
cis-1,3-Dichloropropene		1148	<25	25	ug/kg
trans-1,3-Dichloropropene		1148	<25	25	ug/kg
Di-isopropyl ether		1148	<25	25	ug/kg
Ethylbenzene		1148	<25	25	ug/kg
Hexachlorobutadiene		1148	<35	35	ug/kg
Isopropylbenzene		1148	<25	25	ug/kg
p-Isopropyltoluene		1148	<25	25	ug/kg
Methylene Chloride		1148	<50	50	ug/kg
Methyl-t-butyl ether		1148	<25	25	ug/kg
Naphthalene		1148	<25	25	ug/kg
n-Propylbenzene		1148	<25	25	ug/kg
Styrene		1148	<25	25	ug/kg
1,1,1,2-Tetrachloroethane		1148	<25	25	ug/kg
1,1,2,2-Tetrachloroethane		1148	<25	25	ug/kg
Tetrachloroethene		1148	<25	25	ug/kg
Toluene		1148	<25	25	ug/kg
1,2,3-Trichlorobenzene		1148	<25	25	ug/kg
1,2,4-Trichlorobenzene		1148	<25	25	ug/kg
1,1,1-Trichloroethane		1148	<25	25	ug/kg
1,1,2-Trichloroethane		1148	<25	25	ug/kg
Trichloroethene		1148	<25	25	ug/kg
Trichlorofluoromethane		1148	<25	25	ug/kg
1,2,3-Trichloropropane		1148	<25	25	ug/kg
1,2,4-Trimethylbenzene		1148	<25	25	ug/kg
1,3,5-Trimethylbenzene		1148	<25	25	ug/kg
Vinyl Chloride		1148	<25	25	ug/kg
Xylenes, Total		1148	<35	35	ug/kg
Surr: Dibromofluoromethane		1148	99.9	85-113	%
Surr: Toluene-d8		1148	100.0	93-105	%
Surr: Bromofluorobenzene		1148	100.0	85-111	%
VOC - METHANOL - 8260B					
Benzene		1149	<25	25	ug/kg
Bromobenzene		1149	<25	25	ug/kg
Bromochloromethane		1149	<25	25	ug/kg

Method blank results exceed control limits when results are higher than the highest of any of the following: 1 - The limit of detection; 2 - Five percent of the regulatory limit for that analyte; 3 - Five percent of the measured concentration in the sample. NR149.14 (3)d

## QUALITY CONTROL REPORT

### BLANKS

03/19/2001

Mr. Dave Trainor  
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 Madison, WI 53718

Job No: 01.01188  
 Account No: 21400

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Job Description: 05644-097 NSP/XCEL Ashland

Parameter	Prep Batch	Run Batch	Blank Result	Reporting Limit	Units
Bromodichloromethane		1149	<25	25	ug/kg
Bromoform		1149	<25	25	ug/kg
Bromomethane		1149	<100	100	ug/kg
n-Butylbenzene		1149	<25	25	ug/kg
sec-Butylbenzene		1149	<25	25	ug/kg
tert-Butylbenzene		1149	<25	25	ug/kg
Carbon Tetrachloride		1149	<25	25	ug/kg
Chlorobenzene		1149	<25	25	ug/kg
Chlorodibromomethane		1149	<25	25	ug/kg
Chloroethane		1149	<35	35	ug/kg
Chloroform		1149	<25	25	ug/kg
Chloromethane		1149	<50	50	ug/kg
2-Chlorotoluene		1149	<25	25	ug/kg
4-Chlorotoluene		1149	<25	25	ug/kg
1,2-Dibromo-3-Chloropropane		1149	<50	50	ug/kg
1,2-Dibromoethane (EDB)		1149	<25	25	ug/kg
Dibromomethane		1149	<25	25	ug/kg
1,2-Dichlorobenzene		1149	<25	25	ug/kg
1,3-Dichlorobenzene		1149	<25	25	ug/kg
1,4-Dichlorobenzene		1149	<25	25	ug/kg
Dichlorodifluoromethane		1149	<25	25	ug/kg
1,1-Dichloroethane		1149	<25	25	ug/kg
1,2-Dichloroethane		1149	<25	25	ug/kg
1,1-Dichloroethene		1149	<25	25	ug/kg
cis-1,2-Dichloroethene		1149	<25	25	ug/kg
trans-1,2-Dichloroethene		1149	<25	25	ug/kg
1,2-Dichloropropane		1149	<25	25	ug/kg
1,3-Dichloropropane		1149	<25	25	ug/kg
2,2-Dichloropropane		1149	<25	25	ug/kg
1,1-Dichloropropene		1149	<25	25	ug/kg
cis-1,3-Dichloropropene		1149	<25	25	ug/kg
trans-1,3-Dichloropropene		1149	<25	25	ug/kg
Di-isopropyl ether		1149	<25	25	ug/kg
Ethylbenzene		1149	<25	25	ug/kg
Hexachlorobutadiene		1149	<35	35	ug/kg
Isopropylbenzene		1149	<25	25	ug/kg
p-Isopropyltoluene		1149	<25	25	ug/kg

Method blank results exceed control limits when results are higher than the highest of any of the following: 1 - The limit of detection; 2 - Five percent of the regulatory limit for that analyte; 3 - Five percent of the measured concentration in the sample. NR149.14 (3)d



## QUALITY CONTROL REPORT BLANKS

03/19/2001

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Madison, WI 53718

Job No: 01.01188  
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Job Description: 05644-097 NSP/XCEL Ashland

Parameter	Prep Batch	Run Batch	Blank Result	Reporting Limit	Units
Methylene Chloride		1149	59	50	ug/kg
Methyl-t-butyl ether		1149	<25	25	ug/kg
Naphthalene		1149	<25	25	ug/kg
n-Propylbenzene		1149	<25	25	ug/kg
Styrene		1149	<25	25	ug/kg
1,1,1,2-Tetrachloroethane		1149	<25	25	ug/kg
1,1,2,2-Tetrachloroethane		1149	<25	25	ug/kg
Tetrachloroethene		1149	<25	25	ug/kg
Toluene		1149	<25	25	ug/kg
1,2,3-Trichlorobenzene		1149	<25	25	ug/kg
1,2,4-Trichlorobenzene		1149	<25	25	ug/kg
1,1,1-Trichloroethane		1149	<25	25	ug/kg
1,1,2-Trichloroethane		1149	<25	25	ug/kg
Trichloroethene		1149	<25	25	ug/kg
Trichlorofluoromethane		1149	<25	25	ug/kg
1,2,3-Trichloropropane		1149	<25	25	ug/kg
1,2,4-Trimethylbenzene		1149	<25	25	ug/kg
1,3,5-Trimethylbenzene		1149	<25	25	ug/kg
Vinyl Chloride		1149	<25	25	ug/kg
Xylenes, Total		1149	<35	35	ug/kg
Surr: Dibromofluoromethane		1149	100.0	85-113	%
Surr: Toluene-d8		1149	100.1	93-105	%
Surr: Bromofluorobenzene		1149	100.1	85-111	%
VOC - METHANOL - 8260B					
Naphthalene		1150	<25	25	ug/kg
VOC - METHANOL - 8260B					
Naphthalene		1152	<25	25	ug/kg

Method blank results exceed control limits when results are higher than the highest of any of the following: 1 - The limit of detection; 2 - Five percent of the regulatory limit for that analyte; 3 - Five percent of the measured concentration in the sample. NR149.14 (3)d

## QUALITY CONTROL REPORT LABORATORY CONTROL STANDARD

03/19/2001

Mr. Dave Trainor  
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5250 East Terrace Drive  
Suite I  
Madison, WI 53718

Job No: 01.01188  
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Job Description: 05644-097 NSP/XCEL Ashland

Analyte	Prep	Run	LCS	Units	LCS	LCS	LCS	LCS	Relative
	Batch	Batch							
VOC - METHANOL - 8260B									
Benzene		1145	50.0	ug/kg	48.4	48.3	96.8	96.6	0.2
Chlorobenzene		1145	50.0	ug/kg	46.6	49.0	93.2	98.0	5.0
1,1-Dichloroethene		1145	50.0	ug/kg	51.6	50.0	103.2	100.0	3.1
Ethylbenzene		1145	50.0	ug/kg	47.2	47.9	94.4	95.8	1.5
Methyl-t-butyl ether		1145	50.0	ug/kg	42.7	49.7	85.4	99.4	15.2
Toluene		1145	50.0	ug/kg	48.2	51.1	96.4	102.2	5.8
Trichloroethene		1145	50.0	ug/kg	47.2	48.4	94.4	96.8	2.5
1,2,4-Trimethylbenzene		1145	50.0	ug/kg	46.8	50.3	93.6	100.6	7.2
1,3,5-Trimethylbenzene		1145	50.0	ug/kg	46.9	52.8	93.8	105.6	11.8
Xylenes, Total		1145	150	ug/kg	144	144	96.0	96.0	0.0
Surr: Dibromofluoromethane		1145	50.0	ug/L	51.6	52.7	103.2	105.4	85 - 118 2.1
Surr: Toluene-d8		1145	50.0	ug/L	49.4	52.2	98.8	104.4	91 - 109 5.5
Surr: Bromofluorobenzene		1145	50.0	ug/L	49.0	53.6	98.0	107.2	85 - 113 9.0
VOC - METHANOL - 8260B									
Benzene		1147	50.0	ug/kg	46.1	48.6	92.2	97.2	5.3
Chlorobenzene		1147	50.0	ug/kg	45.0	45.8	90.0	91.6	1.8
1,1-Dichloroethene		1147	50.0	ug/kg	43.0	45.3	86.0	90.6	5.2
Ethylbenzene		1147	50.0	ug/kg	47.7	48.9	95.4	97.8	2.5
Methyl-t-butyl ether		1147	50.0	ug/kg	49.5	49.1	99.0	98.2	0.8
Toluene		1147	50.0	ug/kg	47.1	47.6	94.2	95.2	1.1
Trichloroethene		1147	50.0	ug/kg	46.9	48.9	93.8	97.8	4.2
1,2,4-Trimethylbenzene		1147	50.0	ug/kg	46.4	48.3	92.8	96.6	4.0
1,3,5-Trimethylbenzene		1147	50.0	ug/kg	46.3	47.9	92.6	95.8	3.4
Xylenes, Total		1147	150	ug/kg	140	144	93.3	96.0	2.8
Surr: Dibromofluoromethane		1147	50.0	ug/L	49.8	51.6	99.6	103.2	85 - 118 3.6
Surr: Toluene-d8		1147	50.0	ug/L	50.6	49.6	101.2	99.2	91 - 109 2.0
Surr: Bromofluorobenzene		1147	50.0	ug/L	49.1	49.6	98.2	99.2	85 - 113 1.0
VOC - METHANOL - 8260B									
Benzene		1148	50.0	ug/kg	47.2	47.3	94.4	94.6	0.2
Chlorobenzene		1148	50.0	ug/kg	47.1	47.7	94.2	95.4	1.3
1,1-Dichloroethene		1148	50.0	ug/kg	49.9	50.8	99.8	101.6	1.8
Ethylbenzene		1148	50.0	ug/kg	47.8	46.9	95.6	93.8	1.9
Methyl-t-butyl ether		1148	50.0	ug/kg	50.3	52.7	100.6	105.4	4.7
Toluene		1148	50.0	ug/kg	47.4	47.4	94.8	94.8	0.0
Trichloroethene		1148	50.0	ug/kg	47.8	49.4	95.6	98.8	3.3
1,2,4-Trimethylbenzene		1148	50.0	ug/kg	46.6	47.3	93.2	94.6	1.5
1,3,5-Trimethylbenzene		1148	50.0	ug/kg	46.8	46.9	93.6	93.8	0.2

## QUALITY CONTROL REPORT LABORATORY CONTROL STANDARD

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Job No: 01.01188  
Account No: 21400

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Job Description: 05644-097 NSP/XCEL Ashland

Analyte	Prep	Run			LCS	LCSD			Relative	
	Batch	Batch	LCS	Units	LCS	LCSD	Percent	Percent	Control	
	Number	Number	Amount		Result	Result	Recovery	Recovery	Limits	
									Percent	
									Difference	
Xylenes, Total		1148	150	ug/kg	142	141	94.7	94.0		0.7
Surr: Dibromofluoromethane		1148	50.0	ug/L	52.3	54.4	104.6	108.8	85 - 118	3.9
Surr: Toluene-d8		1148	50.0	ug/L	49.9	49.7	99.8	99.4	91 - 109	0.4
Surr: Bromofluorobenzene		1148	50.0	ug/L	50.0	50.0	100.0	100.0	85 - 113	0.0
VOC - METHANOL - 8260B										
Benzene		1149	50.0	ug/kg	46.7	46.0	93.4	92.0		1.5
Chlorobenzene		1149	50.0	ug/kg	44.4	44.4	88.8	88.8		0.0
1,1-Dichloroethene		1149	50.0	ug/kg	45.2	45.0	90.4	90.0		0.4
Ethylbenzene		1149	50.0	ug/kg	47.0	46.5	94.0	93.0		1.1
Methyl-t-butyl ether		1149	50.0	ug/kg	50.7	52.6	101.4	105.2		3.7
Toluene		1149	50.0	ug/kg	47.1	46.0	94.2	92.0		2.4
Trichloroethene		1149	50.0	ug/kg	46.7	46.2	93.4	92.4		1.1
1,2,4-Trimethylbenzene		1149	50.0	ug/kg	45.4	46.0	90.8	92.0		1.3
1,3,5-Trimethylbenzene		1149	50.0	ug/kg	45.8	46.3	91.6	92.6		1.1
Xylenes, Total		1149	150	ug/kg	137	136	91.3	90.7		0.7
Surr: Dibromofluoromethane		1149	50.0	ug/L	50.2	52.6	100.4	105.2	85 - 118	4.7
Surr: Toluene-d8		1149	50.0	ug/L	50.4	50.4	100.8	100.8	91 - 109	0.0
Surr: Bromofluorobenzene		1149	50.0	ug/L	49.7	50.3	99.4	100.6	85 - 113	1.2
VOC - METHANOL - 8260B										







