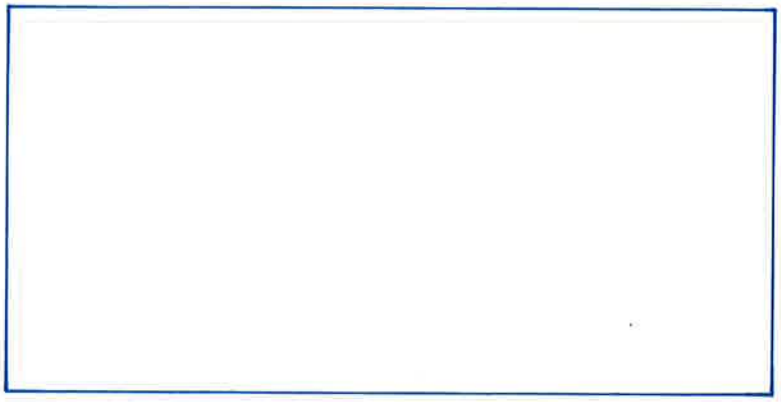


CEE CONSULTING ENVIRONMENTAL ENGINEERS, INC.

TASK 210 - Supplemental Sampling Report
SURFICIAL SITE INVESTIGATION
RECONSTRUCTION OF I-95 OVER WEST RIVER
BETWEEN INTERCHANGE 44 & 45
NEW HAVEN, CONNECTICUT
ConnDOT Project No.092-522
ConnDOT Assignment No. 101-2330
CEE Project No. A210 016 00

November 26, 2002

Prepared for:

Mr. Joseph J. Obara, P.E.
Division of Environmental Compliance
Bureau of Engineering and Highway Operations
Connecticut Department of Transportation
2800 Berlin Turnpike
Newington, Connecticut 06131-7546

Prepared By:

Jonathon B. Drasdis
Staff Geologist

Reviewed By:

David Williams
Senior Project Geologist

Consulting Environmental Engineers, Inc.
100 Shield Street
West Hartford, Connecticut 06110
Telephone: (860) 953-0023 Facsimile: (860) 953-7407
E-mail: dwilliams@cee.net

CEE CONSULTING ENVIRONMENTAL ENGINEERS, INC.

100 SHIELD STREET
WEST HARTFORD,
CONNECTICUT 06110
FAX: (860) 953-7407
TEL: (860) 953-0023

November 27, 2002

Mr. Joseph J. Obara, P.E.
Division of Environmental Compliance
Bureau of Engineering and Highway Operations
Connecticut Department of Transportation
2800 Berlin Turnpike
Newington, Connecticut 06131-7546

Attention: Greg Dorosh, Chris Bonsignore

Re: Task 210 Surficial Site Investigation
Supplemental Sampling Report
Reconstruction of I-95 over West River Between Interchange 44 & 45
New Haven, Connecticut
ConnDOT Project No. 092-522
ConnDOT Assignment No. 101-2330
CEE Project No. A210 016 00

Dear Mr. Obara:

Attached please find the Task 210 – Surficial Site Investigation Supplemental Sampling Report for the referenced site. This report is submitted as an update to the previous Task 210 report submitted by CEE on May 6, 2002. The Task 210 report is being supplemented with additional sampling resulting from reconstruction plans being modified; specifically the realignment of Ramp A on the north bound side of Interstate 95 and bridge work to be conducted over the West River. Based upon the results of the investigation, CEE recommends a Task 310: Plans, Specifications and Estimates to manage contaminated soil materials during construction.

Sincerely,

CONSULTING ENVIRONMENTAL ENGINEERS, INC.

David Williams, CSS
Senior Project Geologist

W/attachments

TABLE OF CONTENTS

1.0 INTRODUCTION 1

2.0 INVESTIGATION ACTIVITIES 1
- 2.1 Site Visit/Utility Clearance 1
- 2.2 Soil/Sediment Borings and Sample Collection 1
  - 2.21 On-Shore Soil Borings 1
  - 2.22 Off-shore Sediment Borings 2
- 2.3 Surface Water Sample Collection 3

3.0 RESULTS 3
- 3.1 Summary of Soil/Sediment Analytical Results 3
- 3.2 Summary of Surface Water Analytical Results 5

4.0 CONCLUSIONS AND RECOMMENDATIONS 5
- 4.1 Conclusions 5
- 4.2 Recommendations 5

5.0 LIMITATIONS AND EXCEPTIONS 6

Figures

Figure 1: Site Location Map
Figure 2: Additional Soil Boring/Sediment Sampling Locations Plan

Tables

Table 1 Summary of Analyses
Table 2 Summary of Soil/Sediment Analytical Results: VOCs, and TPH
Table 3 Summary of Soil/Sediment Analytical Results: Metals, PCBs, PAHs and Waste Characterization
Table 4 Summary of Surface Water and QA/QC Analytical Results: VOCs and Metals
Table 5 Summary of QA/QC Analytical Results: VOCs

Appendices

Appendix A Boring Logs
Appendix B Laboratory Report – Soil/Sediment and Surface Water Analytical Results

1.0 INTRODUCTION

Consulting Environmental Engineers, Inc. (CEE) performed a supplemental investigation to the previous Task 210 Surficial Site Investigation in order to characterize river sediment and soil quality adjacent to Interstate 95 (I-95) in the vicinity of Exits 44 and 45, and the adjacent West River (the Site) in New Haven, Connecticut. The investigation included on-shore soil borings, off-shore borings into sediment and soil below the West River and surface water sampling in the West River. A site location map is included as Figure 1.

The purpose of the Task 210 - Supplemental Sampling was to evaluate additional surface and subsurface conditions at the Site for potential soil, sediment and surface water contamination prior to construction activities. Therefore, CEE focused on areas of the Site which may be disturbed during construction of the proposed highway sections and ramps, as identified in the preliminary design plans entitled "Connecticut Department of Transportation Plan for Reconstruction of I-95 Over West River" provided by ConnDOT. The reconstruction project is summarized in the drawing entitled "Reconstruction of I-95 Over West River", Drawing No. IND-1, Project No. 092-522". The base maps utilized for all annotations by CEE originated from the design plans entitled "State of Connecticut Department of Transportation, New Haven Harbor Crossing Corridor Improvements", Sheets 1-4, Project No. 043-0173. The aforementioned base maps were compiled by L-C Associates Inc., of Rockville, Connecticut and Chas. H. Sells Inc., of Charlton, Massachusetts, and supplied to CEE by the Connecticut Department of Transportation.

2.0 INVESTIGATION ACTIVITIES

2.1 Site Visit/Utility Clearance

CEE conducted a site visit on August 28, 2002 to select and mark-out appropriate on-shore boring locations within the construction limits of Ramp A. A total of three borings were marked out. CEE notified "Call Before You Dig" (CBYD) and requested a mark-out of underground utilities in the vicinity of the boring locations prior to initiating the investigation. Parsons, Brinkerhoff, Quade and Douglas, Inc. (PB) coordinated the off-shore portion of the investigation for geotechnical sampling. A total of five sediment borings were completed within the West River.

2.2 Soil/Sediment Borings and Sample Collection

2.21 On-Shore Soil Borings

Utilizing a 2" OD stainless steel sand auger, CEE characterized the soils in the proposed Ramp A area in three locations, designated B-12, B-13 and B-14. Soil samples were collected on September 3, 2002 and were composited to a depth of

2 feet below grade in each location. All sampling equipment was decontaminated between sample locations using a rinse method of distilled water, methanol and distilled water (second rinse), followed by nitric acid, and distilled water (final rinse). The soils in these areas are similar in composition and consist of fill material, classified as black to dark brown fine sandy loam to a depth of 4 inches, underlain by dark brown to dark red brown fine to medium sand to a depth of 24 inches. The soil samples exhibited no unusual odor or discoloration. Ground water was not encountered.

All samples were screened in the field with a Model 580 B, Thermo Environmental Instruments, Inc., organic vapor meter (OVM) equipped with a Photoionization Detector (PID) for quantification of volatile organic compounds (VOC's). The OVM was calibrated in the field to a 100-ppm isobutylene calibration-gas standard. No OVM readings were detected above the 0.0 ppm background level. Soil samples were immediately transferred into laboratory-supplied glassware and placed in a cooler with ice. Soil samples were selected for laboratory analysis from each boring based on the OVM field screening results and visual observation of the soil sample characteristics. The boring locations are shown in the Boring Location Plan (Figure 2). A boring log for each hand auger boring is included in Appendix A.

2.22 Off-Shore Sediment Borings

In addition to the on-shore soil borings, CEE accompanied PB in conducting offshore, sediment borings from a barge on the West River from July 30 to August 22, 2002. A total of five sediment borings were completed and are designated P3-3, P3-2, P3-1, P2-2 and P2-1. All sampling equipment was decontaminated between sample locations using a rinse method of distilled water, methanol and distilled water (second rinse), followed by nitric acid, and distilled water (final rinse). CEE characterized only the upper 37 feet, consistent with recent depositional events. The depositional sequence of the sediment is classified as black to dark gray, organic muck from the surface to an approximate depth of 12 feet. Underlying the muck is a zone of gray silt and clay, which extends to an approximate depth of 30 feet. Beneath the silt and clay is brown to gray fine sand. The boring locations are shown in the Boring Location Plan (Figure 2). A boring log for each of the five sediment borings is included in Appendix A.

All samples were screened in the field with a model 580B, Thermo Environmental Instruments, Inc., organic vapor meter (OVM) equipped with a highly sensitive photoionization detector (PID) for quantification of volatile organic compounds (VOC's). The OVM was calibrated in the field to 100-ppm isobutylene calibration gas standard. No OVM readings were detected above the 0.0 ppm background level. The soil samples were immediately transferred into laboratory-supplied glassware and placed in a cooler with ice. Soil samples were selected for laboratory analysis from each boring based on the OVM field screening results and visual observation of the soil sample characteristics.

Sediment and soil sample intervals are recorded on the boring logs and are also included in the Summary of Analyses (Table 1) and the Summary of Soil/Sediment Analytical Results (Tables 2 and 3).

CEE submitted thirty-four soil/sediment samples to Spectrum Analytical Inc., Agawam, Massachusetts, for laboratory analysis. Each soil/sediment sample was selectively chosen, based on the observed characteristics of the sample, location, and distribution of distinctive soil/sediment units. Thirty-three of the thirty-four samples were analyzed for volatile organic compounds (VOC's, EPA Method 8260B), and thirty-one samples were analyzed for extractable total petroleum hydrocarbons (ETPH, by the Connecticut Method). Thirty-two samples were analyzed by mass analyses for the eight RCRA metals (EPA Method 3050B/200.7/245.1), and twenty-eight samples were analyzed for the eight RCRA metals by the Synthetic Precipitation Leaching Procedure (SPLP) (EPA Method 1312/200.7/245.1). Nine of the soil/sediment samples were analyzed for Polycyclic Aromatic Hydrocarbons (PAH's), by EPA Method 8270C. Thirteen of the soil samples were analyzed for polychlorinated biphenyls (PCB's) by EPA Method 8082.

In addition, thirteen samples were analyzed for the waste characterization parameters (i.e., pH, reactivity, corrosivity and ignitability).

2.3 Surface Water Sample Collection

On July 30th and August 5th, CEE collected surface water samples from the West River. Utilizing a hand-held dipper, the samples were collected at the same location adjacent to the eastern bank of the West River (see Figure 2). The surface water samples were collected directly into pre-cleaned laboratory containers provided by Spectrum Analytical and immediately placed into a chilled cooler awaiting transport to the laboratory. The July 30th surface water sample (SW-1) was analyzed for volatile organic compounds (VOC's, EPA Method 8260B). On August 5th additional surface water (SW-2) was collected and analyzed for total metals by mass analyses for the eight RCRA metals (EPA Method 200.7/245.1). Both samples were collected from the same location and for the purpose of this report are considered one sample.

In addition to the surface water samples collected from the West River, a QA/QC Trip Blank sample was prepared on July 30th and submitted to Spectrum for analysis of VOC's. The Trip Blank sample was prepared by the laboratory and brought to the Site to accompany the additional samples collected at the site to Spectrum for analysis.

3.0 RESULTS

3.1 Summary of Soil/Sediment Analyses

As stated above, the 34-soil/sediment samples were selectively analyzed for various parameters including: VOC's, CT ETPH, total and SPLP analysis for the eight

RCRA metals, PAH's, PCB's, and waste characterization parameters.

The analyses did not detect VOC's above the laboratory method detection limits (MDL's) in any of the soil/sediment samples collected and submitted to Spectrum for analysis.

Samples from four borings (B-12 (0-2'), B-13 (0-2'), P2-1 (5-7') and P2-2 (0-2')) contained ETPH at concentrations above the MDL's. The sediment sample collected from boring P2-2 (0-2') contained concentrations of TPH (590 mg/kg) that exceeded the 500 mg/kg RES DEC. No other concentration exceeded the RES DEC for TPH.

The laboratory analyses for VOCs and ETPH have been tabulated and are presented in Table 2. Copies of the laboratory reports for the soil analyses are included in Appendix B.

Several PAH's were detected in borings B-12 (0-2'), B-13 (0-2'), P2-1 (5-7') and P2-2 (0-2') at concentrations above the laboratory MDL's. Samples from borings B-13 (0-2') and P2-2 (0-2') contained PAH's at concentrations exceeding the RES DEC and GB PMC.

- Benzo (a) anthracene - 4.7 – 7.4 mg/kg
- Chrysene – 1.3 – 6.9 mg/kg
- Benzo (b) fluoranthrene – 1.2 – 6.0 mg/kg
- Benzo (k) fluoranthrene - 2.6 mg/kg
- Benzo (a) pyrene - 4.7 –5.3 mg/kg
- Indeno (1,2,3-cd) pyrene – 2.2 - 3.1 mg/kg

Concentrations of PCB's were detected above the laboratory MDL's in the sample from boring P2-1 (0-2') (0.13 mg/kg); however, these concentrations do not exceed the 1 mg/kg RES DEC. No other samples detected PCB's above the MDL's.

Total concentrations of barium, chromium and lead were detected above laboratory MDL's in 22 of the 32 soil/sediment samples analyzed for those parameters; however, these metals were detected at levels below the corresponding RES DEC. In addition to the aforementioned total metals, concentrations of arsenic, cadmium, silver and mercury were also detected in several other borings; however, these concentrations were below the RES DEC. All other total RCRA eight metals were also below the MDL's for the remaining boring locations.

The SPLP metals analyses indicate the presence of barium, chromium and lead above the laboratory MDL's in several of the soil/sediment boring locations but at concentrations well below the GB PMC. The PAH's, PCB's, total and SPLP metals analyses are summarized in Table 3.

No other pollutants were detected in the soil samples above the applicable soils criteria contained in the RSR's. Waste characterization analyses indicate all the soil tested is considered non-hazardous.

3.2 Summary of Surface Water Analyses

The surface water samples collected from the West River were analyzed for VOCs and the eight RCRA (total) metals.

Only Barium and the VOC Methyl-tert-butyl-ether (MTBE) were detected above the MDL. No standards have been established for barium or MTBE within Aquatic Life Criteria established in Appendix D of the CT DEP Water Quality Standards SWPC. Laboratory analytical results for surface water are summarized in Table 4. Copies of the laboratory report for the surface water analyses are included in Appendix B.

4.0 CONCLUSIONS AND RECOMMENDATIONS

The following conclusions and recommendations are based upon the information contained in this report and on CEE's understanding of the proposed construction project:

4.1 Conclusions

The following contaminants were detected above the direct exposure criteria (DEC) and/or GB pollutant mobility criteria (GB PMC) soil standards contained in Connecticut's Remediation Standard Regulations (RSR's):

- The soil sample collected from Boring B2-2 (0-2') contained a concentration of extractable total petroleum hydrocarbons (ETPH) (590 mg/kg) that exceeded the 500 mg/kg RES DEC soil standard.

- The soil samples collected from Boring B-13 (0-2'), P2-1 (5-7') and P2-2 (0-2') contained concentrations of Polycyclic Aromatic Hydrocarbons (PAH's) that exceeded RES DEC, I/C DEC and GB PMC soil standards.

No other pollutants were detected above the applicable soil or surface water standards contained in the RSR's.

4.2 Recommendations

The RSR criteria for soil remediation (DEC and PMC) do not, by definition, apply to sediment, and hence are used as a basis for comparison only in this investigation of sediment in the West River. In keeping with ConnDOT policy for managing contaminated soil, contaminated sediment in the West River should be handled and managed in the same way.

Based on the detections of petroleum hydrocarbons, PAH's and metals above the MDL's in soil and sediment, CEE recommends a Task 310: Plans, Specifications and Estimates to manage controlled materials (i.e., soil, sediment, and ground water if needed). All soils and sediment excavated from within identified areas of environmental concern should be stockpiled at an approved waste stockpile area. Soil materials with contaminant concentrations that exceed

background levels, or applicable soil standards established in the RSR's, should be managed for off-site disposal as non-hazardous waste.

5.0 LIMITATIONS AND EXCEPTIONS

CEE performs its services with generally accepted practices of engineers, hydrogeologists, and environmental consultants undertaking similar studies in the same locale and under similar circumstances and conditions. CEE's services are rendered without warranty, expressed, or implied.

CEE's findings and conclusions in this report are based on data, which may be interpreted differently by other individuals, and these different interpretations of the data may result in different conclusions.

Conditions observed by CEE during performance of the Task 210 Surficial Investigation (supplemental sampling) may differ from conditions that are observed at a later time.

Compliance with the recommendations presented in CEE's report does not warrant, guarantee, or ensure the client's compliance with local, state, and federal laws.

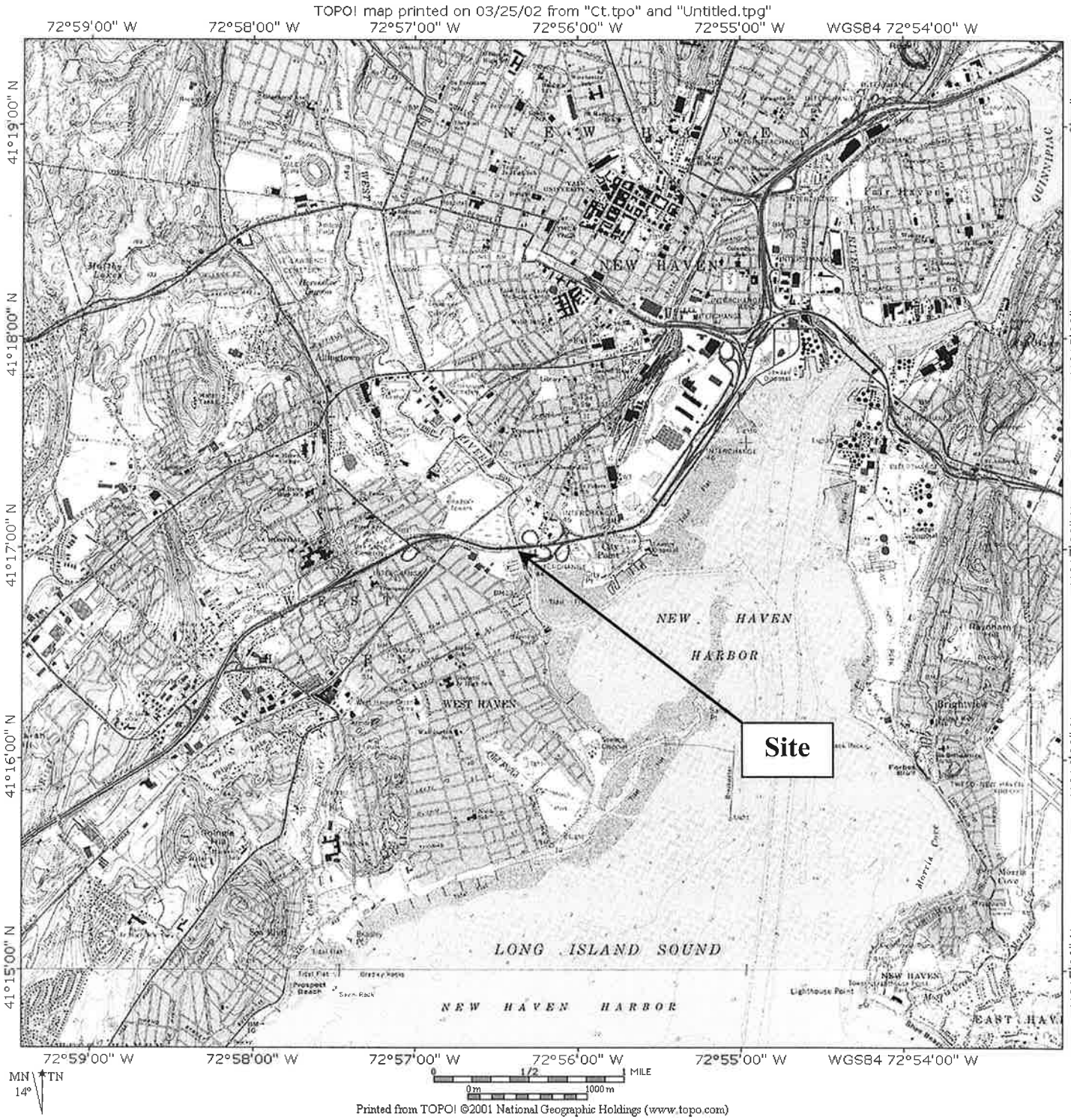
In performance of these services, CEE obtained information from local, state, and federal government offices. CEE did not attempt to verify the accuracy, veracity, or completeness of the information, and CEE cannot be held liable for injuries or for any type of damages arising from its reliance on inaccurate or incomplete information provided by local, state, or federal agencies.

This report has been prepared to aid ConnDOT in identifying and addressing environmental site conditions at the Site located alongside and adjacent to Interstate 95, between Exits 44 and 45, and the adjacent West River in New Haven, Connecticut. This report has been prepared for the sole benefit and use of ConnDOT and may not be relied upon or used by any other person or entity without written permission of Consulting Environmental Engineers, Inc.

6.0 REFERENCES

Wildflower Productions, 1997. TOPO! Interactive mapping software, first version.

FIGURES



SITE LOCATION MAP

Improvements to West River Bridge
State Project No. 0092-0522
Connecticut Department of Transportation

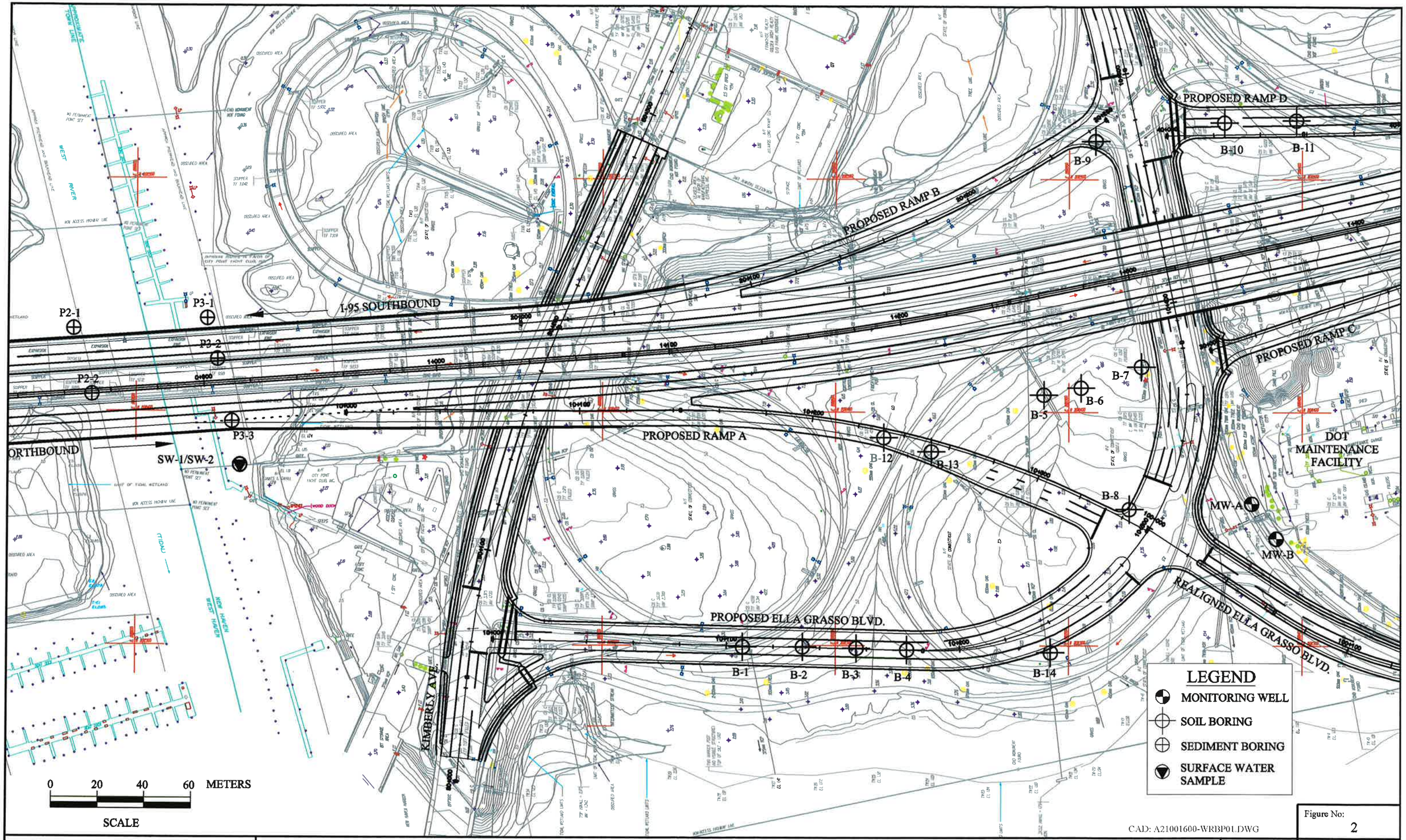
I-95 Interchange between exits 44 and 45

New Haven, Connecticut

FIGURE 1

Job No.
A 210 007 1101

DATE:
11/27/2002



CAD: A21001600-WRBP01.DWG

Figure No: 2

CEE CONSULTING ENVIRONMENTAL ENGINEERS, INC.

ADDITIONAL SOIL BORING/SEDIMENT SAMPLING LOCATIONS PLAN

RECONSTRUCTION OF I-95 OVER WEST RIVER

NEW HAVEN, CONNECTICUT

Drawn By:	Job No.:
REFB	A21001600
Checked By:	Date:
JBD	11-27-02

TABLES

TABLE 1
SUMMARY OF ANALYSES
WEST RIVER BRIDGE
NEW HAVEN, CONNECTICUT

	Matrix	Depth (ft)	Date Sampled	Volatile Organic Compounds by GC/MS	SPLP RCRA 8 Metals	Total RCRA 8 Metals	Ignitability and Corrosivity	Reactivity - Cyanide/ Sulfide	Total Petroleum Hydrocarbons	Polyaromatic Hydrocarbons by GC/MS	Polychlorinated Biphenyls by GC
Trip Blank	Water	--	7/30/02	X							
Surface Water [2]	Water	Surface	8/5/02			X					
Surface Water [2]	Water	Surface	7/30/02	X							
P-3-3 (0-2)	Sediment	0-2	7/30/02	X							
P-3-3 (5-7)	Sediment	5-7	7/30/02	X	X	X	X				
P-3-3 (15-17)	Sediment	15-17	7/30/02	X	X	X		X	X	X	X
P-3-3 (25-27)	Sediment	25-27	7/30/02	X	X	X			X		
P-3-3 (30-32)	Sediment	30-32	7/30/02	X	X	X			X		
P-3-3 (35-37)	Sediment	35-37	7/30/02	X	X	X			X		
P-3-3 (12-14)	Sediment	12-14	7/30/02				X	X			X
P3-2 (0-2)	Sediment	0-2	8/5/02	X	X	X	X	X	X	X	X
P3-2 (5-7)	Sediment	5-7	8/5/02	X	X	X	X	X	X	X	X
P3-2 (10-12)	Sediment	10-12	8/5/02	X		X			X		
P3-2 (25-27)	Sediment	25-27	8/5/02	X	X	X			X		
P3-2 (30-32)	Sediment	30-32	8/5/02	X	X	X			X		
P3-2 (35-37)	Sediment	35-37	8/5/02	X	X	X			X		
P3-1 (0-2)	Sediment	0-2	8/9/02	X		X	X		X		X
P3-1 (5-7)	Sediment	5-7	8/9/02	X		X	X		X		X
P3-1 (15-17)	Sediment	15-17	8/9/02	X	X	X			X		
P3-1 (25-27)	Sediment	25-27	8/9/02	X	X	X			X		
P3-1 (30-32)	Sediment	30-32	8/9/02	X	X	X			X		
P3-1 (35-37)	Sediment	35-37	8/12/02	X	X	X			X		
P2-1 (0-2)	Sediment	0-2	8/21/02	X		X	X	X			X
P2-1 (5-7)	Sediment	5-7	8/21/02	X	X	X	X	X	X	X	X
P2-1 (17-19)	Sediment	17-19	8/21/02	X	X	X			X		
P2-1 (27-29)	Sediment	27-29	8/21/02	X	X	X			X		
P2-1 (30-32)	Sediment	30-32	8/22/02	X	X	X			X		
P2-1 (35-37)	Sediment	35-37	8/22/02	X	X	X			X		
P2-2 (0-2)	Sediment	0-2	8/15/02	X	X	X	X	X	X	X	X
P2-2 (5-7)	Sediment	5-7	8/15/02	X	X	X	X	X	X	X	X
P2-2 (10-12)	Sediment	10-12	8/15/02	X	X	X			X		
P2-2 (25-27)	Sediment	25-27	8/15/02	X	X	X			X		
P2-2 (35-37)	Sediment	35-37	8/15/02	X	X	X			X		
P2-2 (40-42)	Sediment	40-42	8/15/02	X	X	X			X		
B-12 (0-2)	Soil	0-2	9/3/02	X	X	X	X	X	X	X	X
B-13 (0-2)	Soil	0-2	9/3/02	X	X	X	X	X	X	X	X
B-14 (0-2)	Soil	0-2	9/3/02	X	X	X	X	X	X	X	X
Total Samples Analyzed				35	28	33	13	11	31	9	13

Notes:

1) General Chemistry and Cyanide/Sulfide Reactivity constitute Waste Characterization Parameters
2) Surface Water samples were collected from one location. Surface water for VOCs analysis was collected on 7/30/02 ans surface water for metals analysis was collected on 8/5/02.

TABLE 2
SUMMARY OF SOIL/SEDIMENT ANALYTICAL RESULTS -- VOLATILE ORGANIC COMPOUNDS AND TOTAL PETROLEUM HYDROCARBONS
WEST RIVER BRIDGE
NEW HAVEN, CONNECTICUT

SAMPLE ID	P2-2 (40-42)	P-3-3 (0-2)	P-3-3 (5-7)	P-3-3 (15-17)	P-3-3 (25-27)	P-3-3 (30-32)	P-3-3 (35-37)	P-3-3 (12-14)	P3-2 (0-2)	P3-2 (5-7)	P3-2 (10-12)	P3-2 (25-27)	P3-2 (30-32)	P3-2 (35-37)	B-12 (0-2)	B-13 (0-2)	B-14 (0-2)	Connecticut RSRs		
DEPTH (ft)	40-42	0-2	5-7	15-17	25-27	30-32	35-37	12-14	0-2	5-7	10-12	25-27	30-32	35-37	0-2	0-2	0-2	RDEC	I/C DEC	GB PMC
VOCs by GC/MS EPA Method 8260 (mg/kg)																				
All VOCs	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	Not Applicable		
Extractable TPH (mg/kg)																				
Total Petroleum Hydrocarbons	BDL < 20	NA	NA	BDL < 50	BDL < 40	BDL < 20	BDL < 30	NA	BDL < 20	BDL < 20	BDL < 20	BDL < 10	BDL < 10	BDL < 20	**77**	**270**	BDL < 10	500	2,500	2,500
Unidentified	BDL < 20	NA	NA	BDL < 50	BDL < 40	BDL < 20	BDL < 30	NA	BDL < 20	BDL < 20	BDL < 20	BDL < 10	BDL < 10	BDL < 20	77	**270**	BDL < 10	NE	NE	NE
Other Oil	BDL < 20	NA	NA	BDL < 50	BDL < 40	BDL < 20	BDL < 30	NA	BDL < 20	BDL < 20	BDL < 20	BDL < 10	BDL < 10	BDL < 20	*	**	BDL < 10	NE	NE	NE

Notes: (1) BDL = Below Detection Limit (detection limit noted)
(2) NA = Not Analyzed
(3) **Bold** - Analyte detected
(4) Shaded - RSR exceedance
(5) * = Primary petroleum fingerprint calibration used to quantify unidentified samples
(6) ** = Secondary petroleum fingerprint calibration used to quantify unidentified samples
(7) RDEC = Residential Direct Exposure Criteria
(8) I/C DEC = Industrial/Commercial Direct Exposure Criteria
(9) GB PMC = GB Pollutant Mobility Criteria
(10) NE = None Established

TABLE 2 (cont.)
SUMMARY OF SOIL/SEDIMENT ANALYTICAL RESULTS – VOLATILE ORGANIC COMPOUNDS AND TOTAL PETROLEUM HYDROCARBONS
WEST RIVER BRIDGE
NEW HAVEN, CONNECTICUT

SAMPLE ID	P3-1 (0-2)	P3-1 (5-7)	P3-1 (15-17)	P3-1 (25-27)	P3-1 (30-32)	P3-1 (35-37)	P2-1 (0-2)	P2-1 (5-7)	P2-1 (17-19)	P2-1 (27-29)	P2-1 (30-32)	P2-1 (35-37)	P2-2 (0-2)	P2-2 (5-7)	P2-2 (10-12)	P2-2 (25-27)	P2-2 (35-37)	Connecticut RSRs		
DEPTH	0-2	5-7	15-17	25-27	30-32	35-37	0-2	5-7	17-19	27-29	30-32	35-37	0-2	5-7	10-12	25-27	35-37	RDEC	I/C DEC	GB PMC
VOCs by GC/MS EPA Method 8260 (mg/kg)																				
All VOCs	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	Not Applicable		
Extractable TPH (mg/kg)																				
Total Petroleum Hydrocarbons	BDL < 30	BDL < 30	BDL < 40	BDL < 20	BDL < 30	BDL < 20	NA	**1.2**	BDL < 20	BDL < 20	BDL < 20	BDL < 20	**590**	BDL < 20	BDL < 30	BDL < 30	BDL < 20	500	2,500	2,500
Unidentified	BDL < 30	BDL < 30	BDL < 40	BDL < 20	BDL < 30	BDL < 20	NA	**1.2**	BDL < 20	BDL < 20	BDL < 20	BDL < 20	**590**	BDL < 20	BDL < 30	BDL < 30	BDL < 20	NE	NE	NE
Other Oil	BDL < 30	BDL < 30	BDL < 40	BDL < 20	BDL < 30	BDL < 20	NA	**	BDL < 20	BDL < 20	BDL < 20	BDL < 20	**	BDL < 20	BDL < 30	BDL < 30	BDL < 20	NE	NE	NE

Notes: (1) BDL = Below Detection Limit (detection limit noted)
(2) NA = Not Analyzed
(3) **Bold** - Analyte detected
(4) Shaded - RSR exceedance
(5) * = Primary petroleum fingerprint calibration used to quantify unidentified samples
(6) ** = Secondary petroleum fingerprint calibration used to quantify unidentified samples
(7) RDEC = Residential Direct Exposure Criteria
(8) I/C DEC = Industrial/Commercial Direct Exposure Criteria
(9) GB PMC = GB Pollutant Mobility Criteria
(10) NE = None Established

TABLE 3
SUMMARY OF SOIL/SEDIMENT ANALYTICAL RESULTS -- METALS, POLYCHLORINATED BIPHENYLS, POLYAROMATIC HYDROCARBONS AND WASTE CHARACTERIZATION
WEST RIVER BRIDGE
NEW HAVEN, CONNECTICUT

SAMPLE ID	P2-2 (40-42)	P-3-3 (0-2)	P-3-3 (5-7)	P-3-3 (15-17)	P-3-3 (25-27)	P-3-3 (30-32)	P-3-3 (35-37)	P-3-3 (12-14)	P3-2 (0-2)	P3-2 (5-7)	P3-2 (10-12)	P3-2 (25-27)	P3-2 (30-32)	P3-2 (35-37)	B-12 (0-2)	B-13 (0-2)	B-14 (0-2)	Connecticut RSRs		
DEPTH (ft)	40-42	0-2	5-7	15-17	25-27	30-32	35-37	12-14	0-2	5-7	10-12	25-27	30-32	35-37	0-2	0-2	0-2	RDEC	I/C DEC	GB PMC
SPLP RCRA8 Metals (mg/l)																				
SPLP Arsenic	BDL < 0.015	NA	BDL < 0.015	BDL < 0.015	BDL < 0.015	BDL < 0.015	BDL < 0.015	NA	BDL < 0.015	BDL < 0.015	NA	BDL < 0.015	BDL < 0.015	BDL < 0.015	BDL < 0.015	BDL < 0.015	BDL < 0.015	Not Applicable		0.5
SPLP Barium	BDL < 0.0204	NA	BDL < 0.105	BDL < 0.151	BDL < 0.134	BDL < 0.0257	BDL < 0.043	NA	BDL < 0.0562	**0.119**	NA	BDL < 0.0749	**0.0343**	BDL < 0.0086	BDL < 0.05	BDL < 0.06	BDL < 0.036			10
SPLP Cadmium	BDL < 0.0025	NA	BDL < 0.0025	BDL < 0.0025	BDL < 0.0025	BDL < 0.0025	BDL < 0.0025	NA	BDL < 0.0025	BDL < 0.0025	NA	BDL < 0.0025	BDL < 0.0025	BDL < 0.0025	BDL < 0.0025	BDL < 0.0025	BDL < 0.0025			0.05
SPLP Chromium	BDL < 0.005	NA	BDL < 0.005	BDL < 0.005	BDL < 0.005	BDL < 0.005	BDL < 0.005	NA	BDL < 0.005	**0.018**	NA	**0.0157**	BDL < 0.005	BDL < 0.005	**0.007**	**0.0322**	BDL < 0.005			0.5
SPLP Lead	BDL < 0.0075	NA	BDL < 0.0075	BDL < 0.0075	BDL < 0.0075	BDL < 0.0075	BDL < 0.0075	NA	BDL < 0.0075	BDL < 0.0075	NA	BDL < 0.0075	BDL < 0.0075	BDL < 0.0075	**0.0299**	BDL < 0.0075	BDL < 0.0075			0.15
SPLP Selenium	BDL < 0.015	NA	BDL < 0.015	BDL < 0.015	BDL < 0.015	BDL < 0.015	BDL < 0.015	NA	BDL < 0.015	BDL < 0.015	NA	BDL < 0.015	BDL < 0.015	BDL < 0.015	BDL < 0.015	BDL < 0.015	BDL < 0.015			0.5
SPLP Silver	BDL < 0.0164	NA	BDL < 0.01	BDL < 0.01	BDL < 0.01	BDL < 0.01	BDL < 0.01	NA	BDL < 0.01	BDL < 0.01	NA	BDL < 0.01	BDL < 0.01	BDL < 0.01	BDL < 0.01	BDL < 0.01	BDL < 0.01			0.36
SPLP Mercury	BDL < 0.0004	NA	BDL < 0.0004	BDL < 0.0004	BDL < 0.0004	BDL < 0.0004	BDL < 0.0004	NA	BDL < 0.0004	BDL < 0.0004	NA	BDL < 0.0004	BDL < 0.0004	BDL < 0.0004	BDL < 0.0004	BDL < 0.0004	BDL < 0.0004			0.02
Total RCRA8 Metals (mg/kg)																				
Total Arsenic	BDL < 2.87	NA	BDL < 2.76	**3.74**	**3.69**	BDL < 2.66	BDL < 2.58	NA	BDL < 5.61	BDL < 5.24	BDL < 5.48	BDL < 5.03	BDL < 3.82	BDL < 3.41	**3.65**	BDL < 2.79	BDL < 3.11	10	10	
Total Barium	**8.8**	NA	**15.1**	**15.8**	**12.9**	**8.18**	**7.39**	NA	**31.3**	31	**38.7**	**28.5**	**9.81**	**15.4**	**26.3**	15.7	**28.6**	4,700	140,000	
Total Cadmium	BDL < 0.479	NA	BDL < 0.46	BDL < 0.43	BDL < 0.415	BDL < 0.444	BDL < 0.43	NA	BDL < 0.934	BDL < 0.874	BDL < 0.914	BDL < 0.837	BDL < 0.637	BDL < 0.568	BDL < 0.577	BDL < 0.465	BDL < 0.518	34	1,000	
Total Chromium	**3**	NA	**2.99**	**5.24**	**5.18**	BDL < 0.887	BDL < 0.859	NA	**28.4**	**29.1**	**37.6**	**31.1**	**12.2**	**6.1**	**11**	20.2	**11.5**	100*	100*	
Total Lead	BDL < 1.44	NA	**4.56**	**4.78**	**5.22**	**1.5**	BDL < 1.29	NA	**20.8**	**13.1**	**14.9**	**14**	**5.15**	**2.65**	**69.5**	**20.7**	**16.5**	500	1,000	Not Applicable
Total Selenium	BDL < 3.03	NA	BDL < 3.43	BDL < 4.78	BDL < 4.76	BDL < 2.66	BDL < 2.58	NA	BDL < 10.4	BDL < 10.3	BDL < 11.9	BDL < 11.6	BDL < 4.63	BDL < 3.41	BDL < 3.46	BDL < 2.79	BDL < 3.11	340	10,000	
Total Silver	BDL < 2.85	NA	BDL < 1.84	BDL < 1.72	BDL < 1.66	BDL < 1.77	BDL < 1.72	NA	BDL < 3.74	BDL < 3.5	BDL < 3.66	BDL < 3.35	BDL < 2.55	BDL < 2.27	BDL < 2.31	BDL < 1.86	BDL < 2.07	340	10,000	
Total Mercury	BDL < 0.185	NA	BDL < 0.162	BDL < 0.1531	BDL < 0.162	BDL < 0.158	BDL < 0.165	NA	BDL < 0.31	BDL < 0.325	BDL < 0.315	BDL < 0.292	BDL < 0.227	BDL < 0.213	BDL < 0.201	BDL < 0.175	BDL < 0.2	20	610	
Waste Characterization																				
Flash Point (deg F)	NA	NA	>200	NA	NA	NA	NA	>200	>200	>200	NA	NA	NA	NA	>200	>200	>200	Not Applicable		
Ignitability of Solids (Pos/Neg)	NA	NA	Negative	NA	NA	NA	NA	Negative	Negative	Negative	NA	NA	NA	NA	Negative	Negative	Negative			
pH (Standard Units)	NA	NA	8.44	NA	NA	NA	NA	8.86	7.53	8.03	NA	NA	NA	NA	7.31	6.93	6.55			
Reactivity (Pos/Neg)	NA	NA	NA	Negative	NA	NA	NA	Negative	Negative	Negative	NA	NA	NA	NA	Negative	Negative	Negative			
Reactivity Cyanide (mg/kg)	NA	NA	NA	BDL < 0.48	NA	NA	NA	BDL < 0.45	BDL < 0.48	BDL < 0.48	NA	NA	NA	NA	BDL < 0.28	BDL < 0.28	BDL < 0.26			
Reactivity Sulfide (mg/kg)	NA	NA	NA	BDL < 48	NA	NA	NA	BDL < 45	BDL < 48	BDL < 48	NA	NA	NA	NA	BDL < 28	BDL < 28	BDL < 26			
PAHs by GC/MS (mg/kg)																				
Naphthalene	NA	NA	NA	BDL < 0.227	NA	NA	NA	NA	BDL < 0.2	BDL < 0.197	NA	NA	NA	NA	BDL < 0.19	BDL < 0.178	BDL < 0.18	1,000	2,500	56
2-Methylnaphthalene	NA	NA	NA	BDL < 0.227	NA	NA	NA	NA	BDL < 0.2	BDL < 0.197	NA	NA	NA	NA	BDL < 0.19	BDL < 0.178	BDL < 0.18	474	2,500	49
1-Methylnaphthalene	NA	NA	NA	BDL < 0.227	NA	NA	NA	NA	BDL < 0.2	BDL < 0.197	NA	NA	NA	NA	BDL < 0.19	BDL < 0.178	BDL < 0.18	NE	NE	NE
Acenaphthylene	NA	NA	NA	BDL < 0.227	NA	NA	NA	NA	BDL < 0.2	BDL < 0.197	NA	NA	NA	NA	BDL < 0.19	**0.83**	BDL < 0.18	1,000	2,500	84
Acenaphthene	NA	NA	NA	BDL < 0.227	NA	NA	NA	NA	BDL < 0.2	BDL < 0.197	NA	NA	NA	NA	BDL < 0.19	BDL < 0.178	BDL < 0.18	1,000	2,500	84
Fluorene	NA	NA	NA	BDL < 0.227	NA	NA	NA	NA	BDL < 0.2	BDL < 0.197	NA	NA	NA	NA	BDL < 0.19	BDL < 0.178	BDL < 0.18	1,000	2,500	56
Phenanthrene	NA	NA	NA	BDL < 0.227	NA	NA	NA	NA	BDL < 0.2	BDL < 0.197	NA	NA	NA	NA	BDL < 0.19	**3.2**	BDL < 0.18	1,000	2,500	40
Anthracene	NA	NA	NA	BDL < 0.227	NA	NA	NA	NA	BDL < 0.2	BDL < 0.197	NA	NA	NA	NA	BDL < 0.19	**0.73**	BDL < 0.18	1,000	2,500	400
Fluoranthene	NA	NA	NA	BDL < 0.227	NA	NA	NA	NA	BDL < 0.2	BDL < 0.197	NA	NA	NA	NA	**0.34**	**9.1**	BDL < 0.18	1,000	2,500	56
Pyrene	NA	NA	NA	BDL < 0.227	NA	NA	NA	NA	BDL < 0.2	BDL < 0.197	NA	NA	NA	NA	**0.37**	**9.2**	BDL < 0.18	1,000	2,500	40
Benzo (a) anthracene	NA	NA	NA	BDL < 0.227	NA	NA	NA	NA	BDL < 0.2	BDL < 0.197	NA	NA	NA	NA	BDL < 0.19	**4.7**	BDL < 0.18	1	7.8	1
Chrysene	NA	NA	NA	BDL < 0.227	NA	NA	NA	NA	BDL < 0.2	BDL < 0.197	NA	NA	NA	NA	BDL < 0.19	**4.7**	BDL < 0.18	84	780	1
Benzo (b) fluoranthene	NA	NA	NA	BDL < 0.227	NA	NA	NA	NA	BDL < 0.2	BDL < 0.197	NA	NA	NA	NA	BDL < 0.19	**5.2**	BDL < 0.18	1	7.8	1
Benzo (k) fluoranthene	NA	NA	NA	BDL < 0.227	NA	NA	NA	NA	BDL < 0.2	BDL < 0.197	NA	NA	NA	NA	BDL < 0.19	**2.6**	BDL < 0.18	8.4	78	1
Benzo (a) pyrene	NA	NA	NA	BDL < 0.227	NA	NA	NA	NA	BDL < 0.2	BDL < 0.197	NA	NA	NA	NA	BDL < 0.19	**4.7**	BDL < 0.18	1	1	1
Indeno (1,2,3-cd) pyrene	NA	NA	NA	BDL < 0.227	NA	NA	NA	NA	BDL < 0.2	BDL < 0.197	NA	NA	NA	NA	BDL < 0.19	**3.1**	BDL < 0.18	1	7.8	1
Dibenzo (a,h) anthracene	NA	NA	NA	BDL < 0.227	NA	NA	NA	NA	BDL < 0.2	BDL < 0.197	NA	NA	NA	NA	BDL < 0.19	BDL < 0.178	BDL < 0.18	1	1	1
Benzo (g,h,i) perylene	NA	NA	NA	BDL < 0.227	NA	NA	NA	NA	BDL < 0.2	BDL < 0.197	NA	NA	NA	NA	BDL < 0.19	**3.6**	BDL < 0.18	1,000	2,500	42
Polychlorinated Biphenyls by GC (mg/kg)																				
PCB-1016	NA	NA	NA	BDL < 0.16	NA	NA	NA	BDL < 0.12	BDL < 0.077	BDL < 0.073	NA	NA	NA	NA	BDL < 0.032	BDL < 0.03	BDL < 0.032	1	10	
PCB-1221	NA	NA	NA	BDL < 0.16	NA	NA	NA	BDL < 0.12	BDL < 0.077	BDL < 0.073	NA	NA	NA	NA	BDL < 0.032	BDL < 0.03	BDL < 0.032	1	10	
PCB-1232	NA	NA	NA	BDL < 0.16	NA	NA	NA	BDL < 0.12	BDL < 0.077	BDL < 0.073	NA	NA	NA	NA	BDL < 0.032	BDL < 0.03	BDL < 0.032	1	10	
PCB-1242	NA	NA	NA	BDL < 0.16	NA	NA	NA	BDL < 0.12	BDL < 0.077	BDL < 0.073	NA	NA	NA	NA	BDL < 0.032	BDL < 0.03	BDL < 0.032	1	10	
PCB-1248	NA	NA	NA	BDL < 0.16	NA	NA	NA	BDL < 0.12	BDL < 0.077	BDL < 0.073	NA	NA	NA	NA	BDL < 0.032	BDL < 0.03	BDL < 0.032	1	10	
PCB-1254	NA	NA	NA	BDL < 0.16	NA	NA	NA	BDL < 0.12	BDL < 0.077	BDL < 0.073	NA	NA	NA	NA	BDL < 0.032	BDL < 0.03	BDL < 0.032	1	10	
PCB-1260	NA	NA	NA	BDL < 0.16	NA	NA	NA	BDL < 0.12	BDL < 0.077	BDL < 0.073	NA	NA	NA	NA	BDL < 0.032	BDL < 0.03	BDL < 0.032	1	10	

Notes: (1) BDL = Below Detection Limit (detection limit noted)
(2) NA = Not Analyzed
(3) **Bold** - Analyte detected
(4) Shaded - RSR exceedance
(5) * = Criteria Established for hexavalent chromium, as compared to total chromium results
(6) RDEC = Residential Direct Exposure Criteria
(7) I/C DEC = Industrial/Commercial Direct Exposure Criteria
(8) GB PMC = GB Pollutant Mobility Criteria
(9) NE = None Established

TABLE 3 (cont)
SUMMARY OF SOIL/SEDIMENT ANALYTICAL RESULTS -- METALS, POLYCHLORINATED BIPHENYLS, POLYAROMATIC HYDROCARBONS AND WASTE CHARACTERIZATION
WEST RIVER BRIDGE
NEW HAVEN, CONNECTICUT

SAMPLE ID	P3-1 (0-2)	P3-1 (5-7)	P3-1 (15-17)	P3-1 (25-27)	P3-1 (30-32)	P3-1 (35-37)	P2-1 (0-2)	P2-1 (5-7)	P2-1 (17-19)	P2-1 (27-29)	P2-1 (30-32)	P2-1 (35-37)	P2-2 (0-2)	P2-2 (5-7)	P2-2 (10-12)	P2-2 (25-27)	P2-2 (35-37)	Connecticut RSRs		
DEPTH (ft)	0-2	5-7	15-17	25-27	30-32	35-37	0-2	5-7	17-19	27-29	30-32	35-37	0-2	5-7	10-12	25-27	35-37	RDEC	I/C DEC	GB PMC
SPLP RCRA 8 Metals (mg/l)																				
SPLP Arsenic	NA	NA	BDL < 0.015	BDL < 0.015	BDL < 0.015	BDL < 0.015	NA	BDL < 0.015	BDL < 0.015	BDL < 0.015	BDL < 0.015	BDL < 0.015	BDL < 0.015	BDL < 0.015	BDL < 0.015	BDL < 0.015	BDL < 0.015	Not Applicable		0.5
SPLP Barium	NA	NA	**0.0547**	**0.0547**	**0.0454**	BDL < 0.009	NA	**0.0972**	**0.0941**	**0.055**	BDL < 0.019	BDL < 0.0318	BDL < 0.0355	BDL < 0.0448	BDL < 0.0991	BDL < 0.0489	BDL < 0.0168			10
SPLP Cadmium	NA	NA	BDL < 0.0025	BDL < 0.0025	BDL < 0.0025	BDL < 0.0025	NA	BDL < 0.0025	BDL < 0.0025	BDL < 0.0025	BDL < 0.0025	BDL < 0.0025	BDL < 0.0025	BDL < 0.0025	BDL < 0.0025	BDL < 0.0025	BDL < 0.0025			0.05
SPLP Chromium	NA	NA	**0.0113**	**0.0113**	BDL < 0.005	BDL < 0.005	NA	BDL < 0.005	**0.0141**	**0.0101**	BDL < 0.005	BDL < 0.005	BDL < 0.005	**0.01**	**0.0306**	**0.01**	BDL < 0.005			0.5
SPLP Lead	NA	NA	BDL < 0.0075	BDL < 0.0075	BDL < 0.0075	BDL < 0.0075	NA	BDL < 0.0075	BDL < 0.0075	BDL < 0.0075	BDL < 0.0075	BDL < 0.0075	BDL < 0.0075	BDL < 0.0075	**0.015**	BDL < 0.0075	BDL < 0.0075			0.15
SPLP Selenium	NA	NA	BDL < 0.015	BDL < 0.015	BDL < 0.015	BDL < 0.015	NA	BDL < 0.015	BDL < 0.015	BDL < 0.015	BDL < 0.015	BDL < 0.015	BDL < 0.015	BDL < 0.015	BDL < 0.015	BDL < 0.015	BDL < 0.015			0.5
SPLP Silver	NA	NA	BDL < 0.01	BDL < 0.01	BDL < 0.01	BDL < 0.01	NA	BDL < 0.01	BDL < 0.01	BDL < 0.01	BDL < 0.01	BDL < 0.01	BDL < 0.013	BDL < 0.0133	BDL < 0.0113	BDL < 0.0111	BDL < 0.0212			0.36
SPLP Mercury	NA	NA	BDL < 0.0004	BDL < 0.0004	BDL < 0.0004	BDL < 0.0004	NA	BDL < 0.0004	BDL < 0.0004	BDL < 0.0004	BDL < 0.0004	BDL < 0.0004	BDL < 0.0004	BDL < 0.0004	BDL < 0.0004	BDL < 0.0004	BDL < 0.0004			0.02
Total RCRA8 Metals (mg/kg)																				
Total Arsenic	BDL < 4.58	BDL < 4.45	BDL < 5.08	BDL < 5.29	BDL < 5.12	BDL < 3.27	BDL < 11.8	BDL < 21.6	BDL < 15.1	BDL < 13.9	BDL < 7.38	BDL < 7.83	BDL < 4.61	BDL < 4.96	BDL < 4.61	BDL < 5.03	BDL < 3.23	10	10	
Total Barium	**25.4**	**21.5**	**36.6**	**38**	**19.1**	**24.3**	**23.7**	**93.8**	**30.5**	**20.2**	**7.52**	**9.86**	**29.2**	**36.1**	**41.3**	**21.5**	**9.35**	4,700	140,000	
Total Cadmium	BDL < 0.763	BDL < 0.742	BDL < 0.846	BDL < 0.882	BDL < 0.853	BDL < 0.544	BDL < 0.777	**7.62**	BDL < 0.874	BDL < 0.805	BDL < 0.616	BDL < 0.744	BDL < 0.768	BDL < 0.827	BDL < 0.768	BDL < 0.838	BDL < 0.539	34	1,000	
Total Chromium	**22.6**	**29.2**	**35.8**	**37.8**	**25.4**	**13.3**	**51.2**	**195**	**26.1**	**21.2**	**8.21**	**12.5**	**24**	**29.7**	**31.3**	**20.8**	**3.05**	NE	NE	
Total Lead	**24.3**	**26.8**	**26.2**	**27.8**	**17.8**	**4.05**	**170**	**260**	**11.1**	**10**	**3.59**	**4.77**	**21.1**	**17.9**	**20.6**	**14**	BDL < 1.62	500	1,000	
Total Selenium	BDL < 5.8	BDL < 6.66	BDL < 11.1	BDL < 10.7	BDL < 6.69	BDL < 3.27	BDL < 2.48	BDL < 3.55	BDL < 2.8	BDL < 2.57	BDL < 1.97	BDL < 2.38	BDL < 8.95	BDL < 11.2	BDL < 10.2	BDL < 8.15	BDL < 3.23	340	10,000	Not Applicable
Total Silver	BDL < 3.05	BDL < 2.97	BDL < 3.38	BDL < 3.53	BDL < 3.41	BDL < 2.18	BDL < 0.621	**7.11**	BDL < 0.699	BDL < 0.644	BDL < 0.493	BDL < 0.595	BDL < 4.18	BDL < 4.59	BDL < 3.15	BDL < 3.57	BDL < 2.95	340	10,000	
Total Mercury	BDL < 0.307	BDL < 0.26	BDL < 0.326	BDL < 0.357	BDL < 0.296	BDL < 0.21	**0.564**	**2.83**	BDL < 0.345	BDL < 0.311	BDL < 0.249	BDL < 0.259	BDL < 0.278	BDL < 0.3	BDL < 0.275	BDL < 0.269	BDL < 0.196	20	610	
Waste Characterization																				
Flash Point (deg F)	>200	>200	NA	NA	NA	NA	>200	>200	NA	NA	NA	NA	>200	>200	NA	NA	NA	Not Applicable		
Ignitability of Solids (Pos/Neg)	Negative	Negative	NA	NA	NA	NA	Negative	Negative	NA	NA	NA	NA	Negative	Negative	NA	NA	NA			
pH (Standard Units)	7.96	7.98	NA	NA	NA	NA	8.48	8.28	NA	NA	NA	NA	7.73	8.02	NA	NA	NA			
Reactivity (Pos/Neg)	NA	NA	NA	NA	NA	NA	Negative	Negative	NA	NA	NA	NA	Negative	Negative	NA	NA	NA			
Reactivity Cyanide (mg/kg)	NA	NA	NA	NA	NA	NA	BDL < 0.86	BDL < 0.59	NA	NA	NA	NA	BDL < 0.42	BDL < 0.42	NA	NA	NA			
Reactivity Sulfide (mg/kg)	NA	NA	NA	NA	NA	NA	**240**	**440**	NA	NA	NA	NA	BDL < 42	BDL < 42	NA	NA	NA			
PAHs by GC/MS (mg/kg)																				
Naphthalene	NA	NA	NA	NA	NA	NA	NA	BDL < 0.427	NA	NA	NA	NA	BDL < 0.314	BDL < 0.278	NA	NA	NA	1,000	2,500	56
2-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	BDL < 0.427	NA	NA	NA	NA	BDL < 0.314	BDL < 0.278	NA	NA	NA	474	2,500	49
1-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	BDL < 0.427	NA	NA	NA	NA	BDL < 0.314	BDL < 0.278	NA	NA	NA	NE	NE	NE
Acenaphthylene	NA	NA	NA	NA	NA	NA	NA	BDL < 0.427	NA	NA	NA	NA	BDL < 0.314	BDL < 0.278	NA	NA	NA	1,000	2,500	84
Acenaphthene	NA	NA	NA	NA	NA	NA	NA	BDL < 0.427	NA	NA	NA	NA	**2.5**	BDL < 0.278	NA	NA	NA	1,000	2,500	84
Fluorene	NA	NA	NA	NA	NA	NA	NA	BDL < 0.427	NA	NA	NA	NA	**3.1**	BDL < 0.278	NA	NA	NA	1,000	2,500	56
Phenanthrene	NA	NA	NA	NA	NA	NA	NA	**1.3**	NA	NA	NA	NA	**17**	BDL < 0.278	NA	NA	NA	1,000	2,500	40
Anthracene	NA	NA	NA	NA	NA	NA	NA	BDL < 0.427	NA	NA	NA	NA	**4.9**	BDL < 0.278	NA	NA	NA	1,000	2,500	400
Fluoranthene	NA	NA	NA	NA	NA	NA	NA	**2.3**	NA	NA	NA	NA	**15**	BDL < 0.278	NA	NA	NA	1,000	2,500	56
Pyrene	NA	NA	NA	NA	NA	NA	NA	**2.2**	NA	NA	NA	NA	13	BDL < 0.278	NA	NA	NA	1,000	2,500	40
Benzo (a) anthracene	NA	NA	NA	NA	NA	NA	NA	0.93	NA	NA	NA	NA	**7.4**	BDL < 0.278	NA	NA	NA	1	7.8	1
Chrysene	NA	NA	NA	NA	NA	NA	NA	**1.3**	NA	NA	NA	NA	**6.9**	BDL < 0.278	NA	NA	NA	84	780	1
Benzo (b) fluoranthene	NA	NA	NA	NA	NA	NA	NA	**1.2**	NA	NA	NA	NA	**6**	BDL < 0.278	NA	NA	NA	1	7.8	1
Benzo (k) fluoranthene	NA	NA	NA	NA	NA	NA	NA	**0.65**	NA	NA	NA	NA	**3.5**	BDL < 0.278	NA	NA	NA	8.4	78	1
Benzo (a) pyrene	NA	NA	NA	NA	NA	NA	NA	**0.91**	NA	NA	NA	NA	**5.3**	BDL < 0.278	NA	NA	NA	1	1	1
Indeno (1,2,3-cd) pyrene	NA	NA	NA	NA	NA	NA	NA	BDL < 0.427	NA	NA	NA	NA	**2.2**	BDL < 0.278	NA	NA	NA	1	7.8	1
Dibenzo (a,h) anthracene	NA	NA	NA	NA	NA	NA	NA	BDL < 0.427	NA	NA	NA	NA	**0.56**	BDL < 0.278	NA	NA	NA	1	1	1
Benzo (g,h,i) perylene	NA	NA	NA	NA	NA	NA	NA	BDL < 0.427	NA	NA	NA	NA	**2.3**	BDL < 0.278	NA	NA	NA	1,000	2,500	42
Polychlorinated Biphenyls by GC (mg/kg)																				
PCB-1016	BDL < 0.077	BDL < 0.067	NA	NA	NA	NA	BDL < 0.09	BDL < 0.14	NA	NA	NA	NA	BDL < 0.06	BDL < 0.075	NA	NA	NA	1	10	
PCB-1221	BDL < 0.077	BDL < 0.067	NA	NA	NA	NA	BDL < 0.09	BDL < 0.14	NA	NA	NA	NA	BDL < 0.06	BDL < 0.075	NA	NA	NA	1	10	
PCB-1232	BDL < 0.077	BDL < 0.067	NA	NA	NA	NA	BDL < 0.09	BDL < 0.14	NA	NA	NA	NA	BDL < 0.06	BDL < 0.075	NA	NA	NA	1	10	
PCB-1242	BDL < 0.077	BDL < 0.067	NA	NA	NA	NA	BDL < 0.09	BDL < 0.14	NA	NA	NA	NA	BDL < 0.06	BDL < 0.075	NA	NA	NA	1	10	
PCB-1248	BDL < 0.077	BDL < 0.067	NA	NA	NA	NA	BDL < 0.09	BDL < 0.14	NA	NA	NA	NA	BDL < 0.06	BDL < 0.075	NA	NA	NA	1	10	
PCB-1254	BDL < 0.077	BDL < 0.067	NA	NA	NA	NA	BDL < 0.09	BDL < 0.14	NA	NA	NA	NA	BDL < 0.06	BDL < 0.075	NA	NA	NA	1	10	
PCB-1260	BDL < 0.077	BDL < 0.067	NA	NA	NA	NA	0.13	BDL < 0.14	NA	NA	NA	NA	BDL < 0.06	BDL < 0.075	NA	NA	NA	1	10	

Notes: (1) BDL = Below Detection Limit (detection limit noted)
(2) NA = Not Analyzed
(3) **Bold** - Analyte detected
(4) Shaded - RSR exceedance
(5) * = Criteria Established for hexavalent chromium, as compared to total chromium results
(6) RDEC = Residential Direct Exposure Criteria
(7) I/C DEC = Industrial/Commercial Direct Exposure Criteria
(8) GB PMC = GB Pollutant Mobility Criteria
(9) NE = None Established

TABLE 4

SUMMARY OF SURFACE WATER ANALYTICAL RESULTS -- VOLATILE ORGANIC COMPOUNDS AND METALS
WEST RIVER BRIDGE
NEW HAVEN, CONNECTICUT

SAMPLE ID	SW-1	SW-2	Connecticut RSRs Aquatic Life Criteria	
Matrix	Surface Water			
Date	7/30/02	8/5/02	Acute	Chronic
VOCs by GC/MS (µg/l)				
Acetone	BDL < 20.0	NA	NE	NE
Acrylonitrile	BDL < 1	NA	NE	NE
Benzene	BDL < 1	NA	NE	NE
Bromobenzene	BDL < 1	NA	NE	NE
Bromochloromethane	BDL < 1	NA	NE	NE
Bromodichloromethane	BDL < 1	NA	NE	NE
Bromoform	BDL < 1	NA	NE	NE
Bromomethane	BDL < 2	NA	NE	NE
2-Butanone (MEK)	BDL < 10	NA	NE	NE
n-Butylbenzene	BDL < 1	NA	NE	NE
sec-Butylbenzene	BDL < 1	NA	NE	NE
tert-Butylbenzene	BDL < 1	NA	NE	NE
Carbon disulfide	BDL < 5	NA	NE	NE
Carbon tetrachloride	BDL < 1	NA	NE	NE
Chlorobenzene	BDL < 1	NA	NE	NE
Chloroethane	BDL < 2	NA	NE	NE
Chloroform	BDL < 1	NA	NE	NE
Chloromethane	BDL < 2	NA	NE	NE
2-Chlorotoluene	BDL < 1	NA	NE	NE
4-Chlorotoluene	BDL < 1	NA	NE	NE
1,2-Dibromo-3-chloropropane (DBCP)	BDL < 2	NA	NE	NE
Dibromochloromethane	BDL < 1	NA	NE	NE
1,2-Dibromoethane (EDB)	BDL < 1	NA	NE	NE
Dibromomethane	BDL < 1	NA	NE	NE
1,2-Dichlorobenzene	BDL < 1	NA	NE	NE
1,3-Dichlorobenzene	BDL < 1	NA	NE	NE
1,4-Dichlorobenzene	BDL < 1	NA	NE	NE
Dichlorodifluoromethane	BDL < 2	NA	NE	NE
1,1-Dichloroethane	BDL < 1	NA	NE	NE
1,2-Dichloroethane	BDL < 1	NA	NE	NE
1,1-Dichloroethene	BDL < 1	NA	NE	NE
cis-1,2-Dichloroethene	BDL < 1	NA	NE	NE
trans-1,2-Dichloroethene	BDL < 1	NA	NE	NE
1,2-Dichloropropane	BDL < 1	NA	NE	NE
1,3-Dichloropropane	BDL < 1	NA	NE	NE
2,2-Dichloropropane	BDL < 1	NA	NE	NE
1,1-Dichloropropene	BDL < 1	NA	NE	NE
cis-1,3-Dichloropropene	BDL < 1	NA	NE	NE
trans-1,3-Dichloropropene	BDL < 1	NA	NE	NE
Ethylbenzene	BDL < 1	NA	NE	NE
Hexachlorobutadiene	BDL < 1	NA	NE	NE
2-Hexanone (MBK)	BDL < 10	NA	NE	NE
Isopropylbenzene	BDL < 1	NA	NE	NE
4-Isopropyltoluene	BDL < 1	NA	NE	NE
Methyl-tert-butyl ether (MTBE)	2.1	NA	NE	NE
4-Methyl-2-pentanone (MIBK)	BDL < 10	NA	NE	NE
Methylene chloride	BDL < 5	NA	NE	NE
Naphthalene	BDL < 1	NA	NE	NE
n-Propylbenzene	BDL < 1	NA	NE	NE
Styrene	BDL < 1	NA	NE	NE
1,1,1,2-Tetrachloroethane	BDL < 1	NA	NE	NE
1,1,2,2-Tetrachloroethane	BDL < 1	NA	NE	NE
Tetrachloroethene (PCE)	BDL < 1	NA	NE	NE
Toluene	BDL < 1	NA	NE	NE
1,2,3-Trichlorobenzene	BDL < 1	NA	NE	NE
1,2,4-Trichlorobenzene	BDL < 1	NA	NE	NE
1,1,1-Trichloroethane	BDL < 1	NA	NE	NE
1,1,2-Trichloroethane	BDL < 1	NA	NE	NE
Trichloroethene (TCE)	BDL < 1	NA	NE	NE
Trichlorofluoromethane	BDL < 1	NA	NE	NE
1,2,3-Trichloropropane	BDL < 1	NA	NE	NE
1,2,4-Trimethylbenzene	BDL < 1	NA	NE	NE
1,3,5-Trimethylbenzene	BDL < 1	NA	NE	NE
Vinyl chloride	BDL < 1	NA	NE	NE
m,p-Xylenes	BDL < 2	NA	NE	NE
o-Xylene	BDL < 1	NA	NE	NE
Total RCRA 8 Metals (µg/l)				
Total Arsenic	NA	BDL < 4	69	36
Total Barium	NA	**19.6**	NE	NE
Total Cadmium	NA	BDL < 1.25	42	9.3
Total Chromium	NA	BDL < 2.5	1,100	50
Total Lead	NA	BDL < 3.75	210	8.1
Total Selenium	NA	BDL < 7.5	290	71
Total Silver	NA	BDL < 5	1.96	NE
Total Mercury	NA	BDL < 0.4	1.8	0.025

Notes: (1) BDL = Below Detection Limit (detection limit noted)
(2) NA = Not Analyzed
(3) **Bold** - Analyte detected
(4) Shaded - RSR exceedance
(5) NE = None Established

TABLE 5

SUMMARY OF QA/QC ANALYTICAL RESULTS -- VOLATILE ORGANIC COMPOUNDS
WEST RIVER BRIDGE
NEW HAVEN, CONNECTICUT

SAMPLE ID	Trip Blank
Matrix	DI Water
Date	7/30/02

VOCs by GC/MS (µg/l)

Acetone	BDL < 20
Acrylonitrile	BDL < 1
Benzene	BDL < 1
Bromobenzene	BDL < 1
Bromochloromethane	BDL < 1
Bromodichloromethane	BDL < 1
Bromoform	BDL < 1
Bromomethane	BDL < 2
2-Butanone (MEK)	BDL < 10
n-Butylbenzene	BDL < 1
sec-Butylbenzene	BDL < 1
tert-Butylbenzene	BDL < 1
Carbon disulfide	BDL < 5
Carbon tetrachloride	BDL < 1
Chlorobenzene	BDL < 1
Chloroethane	BDL < 2
Chloroform	BDL < 1
Chloromethane	BDL < 2
2-Chlorotoluene	BDL < 1
4-Chlorotoluene	BDL < 1
1,2-Dibromo-3-chloropropane (DBCP)	BDL < 2
Dibromochloromethane	BDL < 1
1,2-Dibromoethane (EDB)	BDL < 1
Dibromomethane	BDL < 1
1,2-Dichlorobenzene	BDL < 1
1,3-Dichlorobenzene	BDL < 1
1,4-Dichlorobenzene	BDL < 1
Dichlorodifluoromethane	BDL < 2
1,1-Dichloroethane	BDL < 1
1,2-Dichloroethane	BDL < 1
1,1-Dichloroethene	BDL < 1
cis-1,2-Dichloroethene	BDL < 1
trans-1,2-Dichloroethene	BDL < 1
1,2-Dichloropropane	BDL < 1
1,3-Dichloropropane	BDL < 1
2,2-Dichloropropane	BDL < 1
1,1-Dichloropropene	BDL < 1
cis-1,3-Dichloropropene	BDL < 1
trans-1,3-Dichloropropene	BDL < 1
Ethylbenzene	BDL < 1
Hexachlorobutadiene	BDL < 1
2-Hexanone (MBK)	BDL < 10
Isopropylbenzene	BDL < 1
4-Isopropyltoluene	BDL < 1
Methyl-tert-butyl ether (MTBE)	BDL < 1
4-Methyl-2-pentanone (MIBK)	BDL < 10
Methylene chloride	BDL < 1
Naphthalene	BDL < 1
n-Propylbenzene	BDL < 1
Styrene	BDL < 1
1,1,1,2-Tetrachloroethane	BDL < 1
1,1,2,2-Tetrachloroethane	BDL < 1
Tetrachloroethene (PCE)	BDL < 1
Toluene	BDL < 1
1,2,3-Trichlorobenzene	BDL < 1
1,2,4-Trichlorobenzene	BDL < 1
1,1,1-Trichloroethane	BDL < 1
1,1,2-Trichloroethane	BDL < 1
Trichloroethene (TCE)	BDL < 1
Trichlorofluoromethane	BDL < 1
1,2,3-Trichloropropane	BDL < 1
1,2,4-Trimethylbenzene	BDL < 1
1,3,5-Trimethylbenzene	BDL < 1
Vinyl chloride	BDL < 1
m,p-Xylenes	BDL < 2
o-Xylene	BDL < 1

Notes :

(1) BDL = Below Detection Limit (detection limit noted)
(2) NA = Not Analyzed
(3) Bold - Analyte detected
(4) Shaded - RSR exceedance
(5) SWPC = Surface Water Protection Criteria
(6) RES VC = Residential Volatilization Criteria
(7) I/C VC = Industrial/Commercial Volatilization Criteria
(8) NE = None Established

APPENDIX A

BORING LOGS

BORING LOG

CONSULTING ENVIRONMENTAL ENGINEERS, INC.
100 Shield Street
West Hartford, Connecticut 06110

Boring No. P2-1
Sheet 1 of 1

Job No.	**Client:**		**Project Description:**	
A 210 016 00	Connecticut Department of Transportation			
Location:		**Inspector:**	River bottom borings and sediment sampling; evaluate upper 40' of sediment; most recent deposition.	
West River, West New Haven, CT		David T. Williams, CEE		
Drilling Contractor:		**Subcontractor - Driller:**	**Elevation and Datum:**	
Associated Boring Company, Inc., Naugatuck, CT		General Borings Inc. (GBI)	Not measured. Depths measured from sediment surface.	
Drilling Rig Type:		**Size and Type of Bit:**	**Date Started:**	**Sampling Completed:**
Hollow-stem auger mounted on Barge		4 & 1/4" ID HSA	8/21/02	8/22/02
Sampler Type:		**Hammer Weight:** / **Drop:**	**Total Sample Depth:**	**Water Level** Encountered / Stabilized
Hollow-stem Auger with Split-spoon Sampler (2" OD / 1 & 5/8" ID)		140 lbs. / 30"	37'	saturated / saturated

Sample I.D.	Rec. (in.)	Blows / 6"	Depth (feet)	H_2O ▽	Description of Soils	OVM/PID Measurements and Remarks
P2-1 (0-2')	3		2		Black muck, saturated	0 ppm sample submitted for analysis
			4			
P2-1 (5-7')	22		6		Dark gray, organic silt, trace muck, saturated	0 ppm sample submitted for analysis
			8			
			10			
P2-1 (10-12')			12		Dark gray-black, silt, trace clay, saturated	0 ppm
			14			
P2-1 (15-17')			16		Dark gray, silt, saturated	0 ppm
P2-1 (17-19')			18		Gray silt	0 ppm sample submitted for analysis
			20			
P2-1 (20-22')			22		Dark gray, silt, clayey, saturated	0 ppm
			24			
P2-1 (25-27')	24		26		Gray silt, little clay, saturated	0 ppm
P2-1 (27-29')	12		28		Gray silt, trace very fine sand, saturated	0 ppm sample submitted for analysis
			30			
P2-1 (30-32')	22		32		Dark gray, fine sand, saturated	0 ppm sample submitted for analysis
			34			
P2-1 (35-37')			36		Gray-brown, fine sand, saturated	0 ppm sample submitted for analysis
			40		Discontinue sediment sampling at 37'; boring extended to 150' for geotechnical evaluation	

BORING LOG

CONSULTING ENVIRONMENTAL ENGINEERS, INC.
100 Shield Street
West Hartford, Connecticut 06110

Boring No. P2-2
Sheet 1 of 1

Job No.	**Client:**		**Project Description:**	
A 210 016 00	Connecticut Department of Transportation			
Location:		**Inspector:**	River bottom borings and sediment sampling; evaluate upper 40' of sediment; most recent deposition.	
West River, West New Haven, CT		David T. Williams, CEE		
Drilling Contractor:		**Subcontractor - Driller:**	**Elevation and Datum:**	
Associated Boring Company, Inc., Naugatuck, CT		General Borings Inc. (GBI)	Not measured. Depths measured from sediment surface.	
Drilling Rig Type:		**Size and Type of Bit:**	**Date Started:**	**Sampling Completed:**
Hollow-stem auger mounted on Barge		4 & 1/4" ID HSA	8/15/02	8/15/02
Sampler Type:		**Hammer Weight:** / **Drop:**	**Total Sample Depth:**	**Water Level** Encountered / Stabilized
Hollow-stem Auger with Split-spoon Sampler (2" OD / 1 & 5/8" ID)		140 lbs. / 30"	37'	saturated / saturated

Sample I.D.	Rec. (in.)	Blows / 6"	Depth (feet)	H_2O ▽	Description of Soils	OVM/PID Measurements and Remarks
P2-2 (0-2')	16		2		Dark gray, muck and organic silt, trace very fine sand; saturated	0 ppm sample submitted for analysis
P2-2 (5-7')	24		6		Dark gray organic silt and muck, saturated	0 ppm sample submitted for analysis
P2-2 (10-12')	24		10		Dark gray, silt, trace clay, saturated	0 ppm sample submitted for analysis
P2-2 (15-17')	24		16		Dark gray, silt and clay, saturated	0 ppm
P2-2 (20-22')	24		20		Dark gray-gray, silt, saturated	0 ppm
P2-2 (25-27')	24		26		Dark gray, silt, trace clay, saturated	0 ppm sample submitted for analysis
P2-2 (35-37')	24		36		Light gray-light brown, fine-medium sand, saturated	0 ppm sample submitted for analysis
			40		Discontinue sediment sampling at 37'; boring extended to 150' for geotechnical evaluation	

BORING LOG

CONSULTING ENVIRONMENTAL ENGINEERS, INC.
100 Shield Street
West Hartford, Connecticut 06110

Boring No. P3-1
Sheet 1 of 1

Job No.	**Client:**	**Project Description:**
A 210 016 00	Connecticut Department of Transportation	
Location: West River, West New Haven, CT	**Inspector:** David T. Williams, CEE	River bottom borings and sediment sampling; evaluate upper 40' of sediment; most recent deposition.
Drilling Contractor: Associated Boring Company, Inc., Naugatuck, CT	**Subcontractor - Driller:** General Borings Inc. (GBI)	**Elevation and Datum:** Not measured. Depths measured from sediment surface.
Drilling Rig Type: Hollow-stem auger mounted on Barge	**Size and Type of Bit:** 4 & 1/4" ID HSA	**Date Started:** 8/9/02 — **Sampling Completed:** 8/12/02
Sampler Type: Hollow-stem Auger with Split-spoon Sampler (2" OD / 1 & 5/8" ID)	**Hammer Weight:** 140 lbs. — **Drop:** 30"	**Total Sample Depth:** 37' — **Water Level** Encountered: saturated, Stabilized: saturated

Sample I.D.	Rec. (in.)	Blows / 6"	Depth (feet)	H_2O ▽	Description of Soils	OVM/PID Measurements and Remarks
P3-1 (0-2')	8		2		Dark gray, organic silt and muck, saturated	0 ppm sample submitted for analysis
P3-1 (5-7')	16		4, 6, 8		Dark gray green-dark gray silt, trace organic material, saturated	0 ppm sample submitted for analysis
P3-1 (10-12')	18		10, 12		Dark gray green-dark gray silt, trace organic material, saturated	
P3-1 (12-14')	18		14		Dark gray, silt, clayey, saturated	0 ppm
P3-1 (15-17')	24		16, 18		Dark gray, silt and clay, saturated	0 ppm sample submitted for analysis
P3-1 (20-22')	22		20, 22		Dark gray-gray, silt, saturated	0 ppm
P3-1 (22-24')	0		24		no recovery	
P3-1 (25-27')	24		26, 28		Dark gray, silt, saturated	0 ppm sample submitted for analysis
P3-1 (30-32')	6		30, 32		Dark gray silt, trace very fine sand, saturated	0 ppm sample submitted for analysis
P3-1 (35-37')	8		34, 36		Gray, fine sand, saturated	0 ppm sample submitted for analysis
			40		Discontinue sediment sampling at 37'; boring extended to 150' for geotechnical evaluation	

BORING LOG

CONSULTING ENVIRONMENTAL ENGINEERS, INC.
100 Shield Street
West Hartford, Connecticut 06110

Boring No. P3-2
Sheet 1 of 1

Job No.	**Client:**			**Project Description:**	
A 210 016 00	Connecticut Department of Transportation				
Location:		**Inspector:**		River bottom borings and sediment sampling; evaluate upper 40' of sediment; most recent deposition.	
West River, West New Haven, CT		David T. Williams, CEE			
Drilling Contractor:		**Subcontractor - Driller:**		**Elevation and Datum:**	
Associated Boring Company, Inc., Naugatuck, CT		General Borings Inc. (GBI)		Not measured. Depths measured from sediment surface.	
Drilling Rig Type:		**Size and Type of Bit:**		**Date Started:**	**Sampling Completed:**
Hollow-stem auger mounted on Barge		4 & 1/4" ID HSA		8/5/02	8/5/02
Sampler Type:		**Hammer Weight:**	**Drop:**	**Total Sample Depth:**	**Water Level** Encountered / Stabilized
Hollow-stem Auger with Split-spoon Sampler (2" OD / 1 & 5/8" ID)		140 lbs.	30"	37'	saturated / saturated

Sample I.D.	Rec. (in.)	Blows / 6"	Depth (feet)	H_2O ▽	Description of Soils	OVM/PID Measurements and Remarks
P3-2 (0-2')			2		Black-gray, muck, organic silt, saturated	0 ppm sample submitted for analysis
P3-2 (5-7')			6		Black-gray, muck, organic silt, saturated	0 ppm sample submitted for analysis
P3-2 (10-12')			10		Black-gray, muck, organic silt, saturated	0 ppm sample submitted for analysis
P3-2 (15-17')	0		16		no recovery	
P3-2 (20-22')	0		20		no recovery	
P3-2 (25-27')	24		26		Dark gray silt, saturated	0 ppm sample submitted for analysis
P3-2 (30-32')	18		30		Dark gray-gray, fine sand, little silt, saturated	0 ppm sample submitted for analysis
P3-2 (35-37')	22		36		Medium gray, fine sand, little silt, saturated	0 ppm sample submitted for analysis
			40		Discontinue sediment sampling at 37'; boring extended to 150' for geotechnical evaluation	

BORING LOG

CONSULTING ENVIRONMENTAL ENGINEERS, INC.
100 Shield Street
West Hartford, Connecticut 06110

Boring No. P3-3
Sheet 1 of 1

Job No.	**Client:**	**Project Description:**	
A 210 016 00	Connecticut Department of Transportation		
Location:	**Inspector:**	River bottom borings and sediment sampling; evaluate upper 40' of sediment; most recent deposition.	
West River, West New Haven, CT	David T. Williams, CEE		
Drilling Contractor:	**Subcontractor - Driller:**	**Elevation and Datum:**	
Associated Boring Company, Inc., Naugatuck, CT	General Borings Inc. (GBI)	Not measured. Depths measured from sediment surface.	
Drilling Rig Type:	**Size and Type of Bit:**	**Date Started:**	**Sampling Completed:**
Hollow-stem auger mounted on Barge	4 & 1/4" ID HSA	7/30/02	7/30/02
Sampler Type:	**Hammer Weight:** / **Drop:**	**Total Sample Depth:**	**Water Level** Encountered / Stabilized
Hollow-stem Auger with Split-spoon Sampler (2" OD / 1 & 5/8" ID)	140 lbs. / 30"	37'	saturated / saturated

Sample I.D.	Rec. (in.)	Blows / 6"	Depth (feet)	H_2O ▽	Description of Soils	OVM/PID Measurements and Remarks
P3-3 (0-2')	2		2		Black muck, saturated, organic odor	0 ppm sample submitted for analysis
			4			
P3-3 (5-7')	4		6		Dark gray, muck, saturated	0 ppm sample submitted for analysis
			8			
			10			
P3-3 (10-12')	0				No recovery	
			12			
P3-3 (12-14')					Dark gray, silt, some clay, saturated; trace organic material including shell fragments	0 ppm
			14			
P3-3 (15-17')	24		16		Dark gray, silt and clay, saturated	0 ppm sample submitted for analysis
			18			
			20			
P3-3 (20-22')	24				Dark gray, silt and clay, saturated	0 ppm
			22			
			24			
P3-3 (25-27')	24		26		Dark gray-gray, silt and clay; visible shell fragments saturated	0 ppm sample submitted for analysis
P3-3 (27-29')			28		Dark gray-gray, silt and clay; visible shell fragments saturated	0 ppm
			30			
P3-3 (30-32')	16				Dark gray-gray, fine sand, some silt, saturated	0 ppm sample submitted for analysis
			32			
			34			
P3-3 (35-37')	22		36		Medium gray, fine-trace medium sand, trace silt, saturated	0 ppm sample submitted for analysis
			40		Discontinue sediment sampling at 37'; boring extended to 150' for geotechnical evaluation	

BORING LOG

CONSULTING ENVIRONMENTAL ENGINEERS, INC.
100 Shield Street
West Hartford, Connecticut 06110

Boring No. B-12
Sheet 1 of 1

Job No.	**Client:**		**Project Description:**	
A 210 016 00	Connecticut Department of Transportation			
Location:		**Inspector:**	Soil sampling, Revised Ramp A	
I-95, Between Interchange 44 and 45		David T. Williams, CEE		
Drilling Contractor:		**Subcontractor - Driller:**	**Elevation and Datum:**	
N/A		CEE	Not measured. Depths measured from ground surface.	
Drilling Rig Type:		**Size and Type of Bit:**	**Date Started:**	**Date Completed:**
N/A		N/A	9/3/02	9/3/02
Sampler Type:		**Hammer Weight:** / **Drop:**	**Total Depth:**	**Water Level** Encountered / Stabilized
Stainless steel 2" OD sand auger		N/A / N/A	2'	none / none

Sample I.D.	Rec. (in.)	Blows / 6"	Depth (feet)	H_2O ▽		OVM/PID Measurements and Remarks
B-12 (0-2')	24		2		Dark brown-dark red brown, fill consisting of fine-medium sand, trace very fine sandy loam	0 ppm sample submited for analysis
			4		Discontinue augering at 2'.	
			6			
			8			
			10			
			12			
			14			
			16			
			18			
			20			
			22			
			24			
			26			
			28			
			30			
			32			
			34			
			36			
			40			

BORING LOG

CONSULTING ENVIRONMENTAL ENGINEERS, INC.
100 Shield Street
West Hartford, Connecticut 06110

Boring No. B-13
Sheet 1 of 1

Job No.	Client:		Project Description:	
A 210 016 00	Connecticut Department of Transportation		Soil sampling, Revised Ramp A	
Location: I-95, Between Interchange 44 and 45		**Inspector:** David T. Williams, CEE		
Drilling Contractor: N/A		**Subcontractor - Driller:** CEE	**Elevation and Datum:** Not measured. Depths measured from ground surface.	
Drilling Rig Type: N/A		**Size and Type of Bit:** N/A	**Date Started:** 8/21/02	**Date Completed:** 8/21/02
Sampler Type: Stainless steel 2" OD sand auger		**Hammer Weight:** N/A / **Drop:** N/A	**Total Depth:** 2'	**Water Level** Encountered: none / Stabilized: none

Sample I.D.	Rec. (in.)	Blows / 6"	Depth (feet)	H_2O ▽		OVM/PID Measurements and Remarks
B-13 (0-2')	24		2		Dark brown-dark red brown, fill consisting of fine-medium sand, trace very fine sandy loam	0 ppm sample submited for analysis
			4		Discontinue augering at 2'.	
			6			
			8			
			10			
			12			
			14			
			16			
			18			
			20			
			22			
			24			
			26			
			28			
			30			
			32			
			34			
			36			
			40			

BORING LOG

CONSULTING ENVIRONMENTAL ENGINEERS, INC.
100 Shield Street
West Hartford, Connecticut 06110

Boring No. B-14
Sheet 1 of 1

Job No.	**Client:**		**Project Description:**	
A 210 016 00	Connecticut Department of Transportation			
Location:		**Inspector:**	Soil sampling, Revised Ramp A	
I-95, Between Interchange 44 and 45		David T. Williams, CEE		
Drilling Contractor:		**Subcontractor - Driller:**	**Elevation and Datum:**	
N/A		CEE	Not measured. Depths measured from ground surface.	
Drilling Rig Type:		**Size and Type of Bit:**	**Date Started:**	**Date Completed:**
N/A		N/A	9/3/02	9/3/02
Sampler Type:		**Hammer Weight:** / **Drop:**	**Total Depth:**	**Water Level** Encountered / Stabilized
Stainless steel 2" OD sand auger		N/A / N/A		none / none

Sample I.D.	Rec. (in.)	Blows / 6"	Depth (feet)	H_2O ▽		OVM/PID Measurements and Remarks
B-14 (0-2')	24		2		Dark brown-dark red brown, fill consisting of fine-medium sand, trace very fine sandy loam	0 ppm sample submited for analysis
			4		Discontinue augering at 2'.	
			6			
			8			
			10			
			12			
			14			
			16			
			18			
			20			
			22			
			24			
			26			
			28			
			30			
			32			
			34			
			36			
			40			

APPENDIX B

LABORATORY REPORT:
Soil/Sediment and Surface Water
Analytical Results

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

Massachusetts Certification # M-MA138
Rhode Island # 98 Maine # MA138
Florida # E87600 / 87562
New Hampshire # 2538
Connecticut # PH-0777
New York # 11393

ACCREDITED IN ACCORDANCE WITH nelac

Consulting Environmental
100 Shield Street
West Hartford, CT 06110

Attn: David Williams

Thursday, August 08, 2002

Report Status:
- ☑ Final Report
- ☐ Re-issued Report
- ☐ Revised Report

Client Project Number: A2100160 **Location:** West River Bridge - CT

Laboratory ID	Client Sample ID	Analyses Requested
AD31183	Surface Water	VOCs by GC/MS VOC Matrix Spike Recovery Duplicate VOC Matrix Spike Rec
AD31184	P-3-3 (0-2)	VOCs by GC/MS VOC Extraction (solid)
AD31185	P-3-3 (5-7)	SPLP Extraction for Metals Metals Digestion on Leachate Mercury Digestion on Leachate SPLP RCRA8 Metals SPLP Mercury VOCs by GC/MS VOC Extraction (solid) Total RCRA8 Metals Total Mercury Ignitability of Solids Flash Point pH Mercury Digestion Metals Digestion
AD31186	P-3-3 (15-17)	Extractable TPH Ultrasonic Extraction SPLP Extraction for Metals Metals Digestion on Leachate Mercury Digestion on Leachate SPLP RCRA8 Metals SPLP Mercury

RECEIVED
AUG 15 2002
CONSULTING ENVIRONMENTAL ENGINEERS, INC.

Client Project Number: A2100160 **Location:** West River Bridge - CT

Laboratory ID	Client Sample ID	Analyses Requested
AD31186	P-3-3 (15-17)	VOCs by GC/MS VOC Extraction (solid) Metals Digestion Mercury Digestion Total RCRA8 Metals Total Mercury % Solids Ultrasonic Extraction PAHs by GC/MS Reactivity - Cyanide/Sulfide Polychlorinated Biphenyls by GC
AD31187	P-3-3 (25-27)	Extractable TPH Ultrasonic Extraction SPLP Extraction for Metals Metals Digestion on Leachate Mercury Digestion on Leachate SPLP RCRA8 Metals SPLP Mercury VOCs by GC/MS VOC Extraction (solid) Metals Digestion Mercury Digestion Total RCRA8 Metals Total Mercury % Solids
AD31188	P-3-3 (30-32)	Extractable TPH Ultrasonic Extraction SPLP Extraction for Metals Metals Digestion on Leachate Mercury Digestion on Leachate SPLP RCRA8 Metals SPLP Mercury VOCs by GC/MS VOC Extraction (solid) Metals Digestion

11 Almgren Drive • Agawam, Massachusetts 01001 • 1-800-789-9115 • 413-789-9018 • Fax 413-789-4076

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

Client Project Number: A2100160 **Location:** West River Bridge - CT

Laboratory ID	Client Sample ID	Analyses Requested
AD31188	P-3-3 (30-32)	Mercury Digestion
		Total RCRA8 Metals
		Total Mercury
		% Solids
AD31189	P-3-3 (35-37)	Extractable TPH
		Ultrasonic Extraction
		SPLP Extraction for Metals
		Metals Digestion on Leachate
		Mercury Digestion on Leachate
		SPLP RCRA8 Metals
		SPLP Mercury
		VOCs by GC/MS
		VOC Extraction (solid)
		Metals Digestion
		Mercury Digestion
		Total RCRA8 Metals
		Total Mercury
		% Solids
AD31190	P-3-3 (12-14)	Reactivity - Cyanide/Sulfide
		Ignitability of Solids
		Flash Point
		pH
		Polychlorinated Biphenyls by GC
		Ultrasonic Extraction
		% Solids
AD31191	Trip Blanks	VOCs by GC/MS

11 Almgren Drive • Agawam, Massachusetts 01001 • 1-800-789-9115 • 413-789-9018 • Fax 413-789-4076

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

Client Project Number: A2100160 **Location:** West River Bridge - CT

Laboratory ID	Client Sample ID	Analyses Requested

I attest that all information contained within this report has been reviewed for accuracy and checked against all quality control requirements outlined in each applicable method and meet the requirements of NELAC including any data obtained from a subcontract laboratory. Please note that all solid matrix sample results are calculated on a dry weight basis unless otherwise specified.

This report may not be reproduced, except in full, without written approval from Spectrum Analytical, Inc.

Authorized by:

Hanibal C. Tayeh, Ph.D.
President/Laboratory Director

11 Almgren Drive • Agawam, Massachusetts 01001 • 1-800-789-9115 • 413-789-9018 • Fax 413-789-4076

SPECTRUM ANALYTICAL, INC.

Laboratory Report

Location: West River Bridge - CT
Client: CEE
Lab ID No: AD31183
Client Id: Surface Water

Client Project No: A2100160
Submittal Date: 8/1/2002
Collection Date: 7/30/2002
Matrix Surface Water

Parameter	Results	Units	PQL	Start Date	Analyst	Method
Volatile Organic Compounds						
VOCs by GC/MS						
Acetone	Below det lim	ug/L	20.0	8/6/2002	KW	SW846 8260B
Acrylonitrile	Below det lim	ug/L	1.0	8/6/2002	KW	SW846 8260B
Benzene	Below det lim	ug/L	1.0	8/6/2002	KW	SW846 8260B
Bromobenzene	Below det lim	ug/L	1.0	8/6/2002	KW	SW846 8260B
Bromochloromethane	Below det lim	ug/L	1.0	8/6/2002	KW	SW846 8260B
Bromodichloromethane	Below det lim	ug/L	1.0	8/6/2002	KW	SW846 8260B
Bromoform	Below det lim	ug/L	1.0	8/6/2002	KW	SW846 8260B
Bromomethane	Below det lim	ug/L	2.0	8/6/2002	KW	SW846 8260B
2-Butanone (MEK)	Below det lim	ug/L	10.0	8/6/2002	KW	SW846 8260B
n-Butylbenzene	Below det lim	ug/L	1.0	8/6/2002	KW	SW846 8260B
sec-Butylbenzene	Below det lim	ug/L	1.0	8/6/2002	KW	SW846 8260B
tert-Butylbenzene	Below det lim	ug/L	1.0	8/6/2002	KW	SW846 8260B
Carbon disulfide	Below det lim	ug/L	5.0	8/6/2002	KW	SW846 8260B
Carbon tetrachloride	Below det lim	ug/L	1.0	8/6/2002	KW	SW846 8260B
Chlorobenzene	Below det lim	ug/L	1.0	8/6/2002	KW	SW846 8260B
Chloroethane	Below det lim	ug/L	2.0	8/6/2002	KW	SW846 8260B
Chloroform	Below det lim	ug/L	1.0	8/6/2002	KW	SW846 8260B
Chloromethane	Below det lim	ug/L	2.0	8/6/2002	KW	SW846 8260B
2-Chlorotoluene	Below det lim	ug/L	1.0	8/6/2002	KW	SW846 8260B
4-Chlorotoluene	Below det lim	ug/L	1.0	8/6/2002	KW	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	Below det lim	ug/L	2.0	8/6/2002	KW	SW846 8260B
Dibromochloromethane	Below det lim	ug/L	1.0	8/6/2002	KW	SW846 8260B
1,2-Dibromoethane (EDB)	Below det lim	ug/L	1.0	8/6/2002	KW	SW846 8260B
Dibromomethane	Below det lim	ug/L	1.0	8/6/2002	KW	SW846 8260B
1,2-Dichlorobenzene	Below det lim	ug/L	1.0	8/6/2002	KW	SW846 8260B
1,3-Dichlorobenzene	Below det lim	ug/L	1.0	8/6/2002	KW	SW846 8260B
1,4-Dichlorobenzene	Below det lim	ug/L	1.0	8/6/2002	KW	SW846 8260B
Dichlorodifluoromethane	Below det lim	ug/L	2.0	8/6/2002	KW	SW846 8260B
1,1-Dichloroethane	Below det lim	ug/L	1.0	8/6/2002	KW	SW846 8260B
1,2-Dichloroethane	Below det lim	ug/L	1.0	8/6/2002	KW	SW846 8260B
1,1-Dichloroethene	Below det lim	ug/L	1.0	8/6/2002	KW	SW846 8260B
cis-1,2-Dichloroethene	Below det lim	ug/L	1.0	8/6/2002	KW	SW846 8260B
trans-1,2-Dichloroethene	Below det lim	ug/L	1.0	8/6/2002	KW	SW846 8260B
1,2-Dichloropropane	Below det lim	ug/L	1.0	8/6/2002	KW	SW846 8260B
1,3-Dichloropropane	Below det lim	ug/L	1.0	8/6/2002	KW	SW846 8260B
2,2-Dichloropropane	Below det lim	ug/L	1.0	8/6/2002	KW	SW846 8260B

Lab ID No: AD31183
Client Id: Surface Water

Collection Date: 7/30/2002
Matrix Surface Water

Parameter	Results	Units	PQL	Start Date	Analyst	Method
1,1-Dichloropropene	Below det lim	ug/L	1.0	8/6/2002	KW	SW846 8260B
cis-1,3-Dichloropropene	Below det lim	ug/L	1.0	8/6/2002	KW	SW846 8260B
trans-1,3-Dichloropropene	Below det lim	ug/L	1.0	8/6/2002	KW	SW846 8260B
Ethylbenzene	Below det lim	ug/L	1.0	8/6/2002	KW	SW846 8260B
Hexachlorobutadiene	Below det lim	ug/L	1.0	8/6/2002	KW	SW846 8260B
2-Hexanone (MBK)	Below det lim	ug/L	10.0	8/6/2002	KW	SW846 8260B
Isopropylbenzene	Below det lim	ug/L	1.0	8/6/2002	KW	SW846 8260B
4-Isopropyltoluene	Below det lim	ug/L	1.0	8/6/2002	KW	SW846 8260B
Methyl-tert-butyl ether (MTBE)	2.1	ug/L	1.0	8/6/2002	KW	SW846 8260B
4-Methyl-2-pentanone (MIBK)	Below det lim	ug/L	10.0	8/6/2002	KW	SW846 8260B
Methylene chloride	Below det lim	ug/L	5.0	8/6/2002	KW	SW846 8260B
Naphthalene	Below det lim	ug/L	1.0	8/6/2002	KW	SW846 8260B
n-Propylbenzene	Below det lim	ug/L	1.0	8/6/2002	KW	SW846 8260B
Styrene	Below det lim	ug/L	1.0	8/6/2002	KW	SW846 8260B
1,1,1,2-Tetrachloroethane	Below det lim	ug/L	1.0	8/6/2002	KW	SW846 8260B
1,1,2,2-Tetrachloroethane	Below det lim	ug/L	1.0	8/6/2002	KW	SW846 8260B
Tetrachloroethene (PCE)	Below det lim	ug/L	1.0	8/6/2002	KW	SW846 8260B
Toluene	Below det lim	ug/L	1.0	8/6/2002	KW	SW846 8260B
1,2,3-Trichlorobenzene	Below det lim	ug/L	1.0	8/6/2002	KW	SW846 8260B
1,2,4-Trichlorobenzene	Below det lim	ug/L	1.0	8/6/2002	KW	SW846 8260B
1,1,1-Trichloroethane	Below det lim	ug/L	1.0	8/6/2002	KW	SW846 8260B
1,1,2-Trichloroethane	Below det lim	ug/L	1.0	8/6/2002	KW	SW846 8260B
Trichloroethene (TCE)	Below det lim	ug/L	1.0	8/6/2002	KW	SW846 8260B
Trichlorofluoromethane	Below det lim	ug/L	1.0	8/6/2002	KW	SW846 8260B
1,2,3-Trichloropropane	Below det lim	ug/L	1.0	8/6/2002	KW	SW846 8260B
1,2,4-Trimethylbenzene	Below det lim	ug/L	1.0	8/6/2002	KW	SW846 8260B
1,3,5-Trimethylbenzene	Below det lim	ug/L	1.0	8/6/2002	KW	SW846 8260B
Vinyl chloride	Below det lim	ug/L	1.0	8/6/2002	KW	SW846 8260B
m,p-Xylenes	Below det lim	ug/L	2.0	8/6/2002	KW	SW846 8260B
o-Xylene	Below det lim	ug/L	1.0	8/6/2002	KW	SW846 8260B
4-Bromofluorobenzene (%SR)	97	ug/L		8/6/2002	KW	SW846 8260B
1,4-Difluorobenzene (%SR)	101	ug/L		8/6/2002	KW	SW846 8260B
Chlorobenzene-d5 (%SR)	97	ug/L		8/6/2002	KW	SW846 8260B

Lab ID No: AD31184
Client Id: P-3-3 (0-2)

Collection Date: 7/30/2002
Matrix Sediment

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VOC Preparation						
VOC Extraction (solid)	Field ext			7/30/2002		SW846 5035
Volatile Organic Compounds						
VOCs by GC/MS						
Acetone	Below det lim	ug/Kg	680	8/6/2002	KW	SW846 8260B
Acrylonitrile	Below det lim	ug/Kg	34.0	8/6/2002	KW	SW846 8260B
Benzene	Below det lim	ug/Kg	34.0	8/6/2002	KW	SW846 8260B
Bromobenzene	Below det lim	ug/Kg	34.0	8/6/2002	KW	SW846 8260B
Bromochloromethane	Below det lim	ug/Kg	34.0	8/6/2002	KW	SW846 8260B
Bromodichloromethane	Below det lim	ug/Kg	34.0	8/6/2002	KW	SW846 8260B
Bromoform	Below det lim	ug/Kg	34.0	8/6/2002	KW	SW846 8260B
Bromomethane	Below det lim	ug/Kg	68.0	8/6/2002	KW	SW846 8260B
2-Butanone (MEK)	Below det lim	ug/Kg	340	8/6/2002	KW	SW846 8260B
n-Butylbenzene	Below det lim	ug/Kg	34.0	8/6/2002	KW	SW846 8260B
sec-Butylbenzene	Below det lim	ug/Kg	34.0	8/6/2002	KW	SW846 8260B
tert-Butylbenzene	Below det lim	ug/Kg	34.0	8/6/2002	KW	SW846 8260B
Carbon disulfide	Below det lim	ug/Kg	170	8/6/2002	KW	SW846 8260B
Carbon tetrachloride	Below det lim	ug/Kg	34.0	8/6/2002	KW	SW846 8260B
Chlorobenzene	Below det lim	ug/Kg	34.0	8/6/2002	KW	SW846 8260B
Chloroethane	Below det lim	ug/Kg	68.0	8/6/2002	KW	SW846 8260B
Chloroform	Below det lim	ug/Kg	34.0	8/6/2002	KW	SW846 8260B
Chloromethane	Below det lim	ug/Kg	68.0	8/6/2002	KW	SW846 8260B
2-Chlorotoluene	Below det lim	ug/Kg	34.0	8/6/2002	KW	SW846 8260B
4-Chlorotoluene	Below det lim	ug/Kg	34.0	8/6/2002	KW	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	Below det lim	ug/Kg	68.0	8/6/2002	KW	SW846 8260B
Dibromochloromethane	Below det lim	ug/Kg	34.0	8/6/2002	KW	SW846 8260B
1,2-Dibromoethane (EDB)	Below det lim	ug/Kg	34.0	8/6/2002	KW	SW846 8260B
Dibromomethane	Below det lim	ug/Kg	34.0	8/6/2002	KW	SW846 8260B
1,2-Dichlorobenzene	Below det lim	ug/Kg	34.0	8/6/2002	KW	SW846 8260B
1,3-Dichlorobenzene	Below det lim	ug/Kg	34.0	8/6/2002	KW	SW846 8260B
1,4-Dichlorobenzene	Below det lim	ug/Kg	34.0	8/6/2002	KW	SW846 8260B
Dichlorodifluoromethane	Below det lim	ug/Kg	68.0	8/6/2002	KW	SW846 8260B
1,1-Dichloroethane	Below det lim	ug/Kg	34.0	8/6/2002	KW	SW846 8260B
1,2-Dichloroethane	Below det lim	ug/Kg	34.0	8/6/2002	KW	SW846 8260B
1,1-Dichloroethene	Below det lim	ug/Kg	34.0	8/6/2002	KW	SW846 8260B
cis-1,2-Dichloroethene	Below det lim	ug/Kg	34.0	8/6/2002	KW	SW846 8260B
trans-1,2-Dichloroethene	Below det lim	ug/Kg	34.0	8/6/2002	KW	SW846 8260B
1,2-Dichloropropane	Below det lim	ug/Kg	34.0	8/6/2002	KW	SW846 8260B
1,3-Dichloropropane	Below det lim	ug/Kg	34.0	8/6/2002	KW	SW846 8260B
2,2-Dichloropropane	Below det lim	ug/Kg	34.0	8/6/2002	KW	SW846 8260B
1,1-Dichloropropene	Below det lim	ug/Kg	34.0	8/6/2002	KW	SW846 8260B
cis-1,3-Dichloropropene	Below det lim	ug/Kg	34.0	8/6/2002	KW	SW846 8260B

Lab ID No: AD31184
Client Id: P-3-3 (0-2)

Collection Date: 7/30/2002
Matrix Sediment

Parameter	Results	Units	PQL	Start Date	Analyst	Method
trans-1,3-Dichloropropene	Below det lim	ug/Kg	34.0	8/6/2002	KW	SW846 8260B
Ethylbenzene	Below det lim	ug/Kg	34.0	8/6/2002	KW	SW846 8260B
Hexachlorobutadiene	Below det lim	ug/Kg	34.0	8/6/2002	KW	SW846 8260B
2-Hexanone (MBK)	Below det lim	ug/Kg	340	8/6/2002	KW	SW846 8260B
Isopropylbenzene	Below det lim	ug/Kg	34.0	8/6/2002	KW	SW846 8260B
4-Isopropyltoluene	Below det lim	ug/Kg	34.0	8/6/2002	KW	SW846 8260B
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/Kg	34.0	8/6/2002	KW	SW846 8260B
4-Methyl-2-pentanone (MIBK)	Below det lim	ug/Kg	340	8/6/2002	KW	SW846 8260B
Methylene chloride	Below det lim	ug/Kg	130	8/6/2002	KW	SW846 8260B
Naphthalene	Below det lim	ug/Kg	34.0	8/6/2002	KW	SW846 8260B
n-Propylbenzene	Below det lim	ug/Kg	34.0	8/6/2002	KW	SW846 8260B
Styrene	Below det lim	ug/Kg	34.0	8/6/2002	KW	SW846 8260B
1,1,1,2-Tetrachloroethane	Below det lim	ug/Kg	34.0	8/6/2002	KW	SW846 8260B
1,1,2,2-Tetrachloroethane	Below det lim	ug/Kg	34.0	8/6/2002	KW	SW846 8260B
Tetrachloroethene (PCE)	Below det lim	ug/Kg	34.0	8/6/2002	KW	SW846 8260B
Toluene	Below det lim	ug/Kg	34.0	8/6/2002	KW	SW846 8260B
1,2,3-Trichlorobenzene	Below det lim	ug/Kg	34.0	8/6/2002	KW	SW846 8260B
1,2,4-Trichlorobenzene	Below det lim	ug/Kg	34.0	8/6/2002	KW	SW846 8260B
1,1,1-Trichloroethane	Below det lim	ug/Kg	34.0	8/6/2002	KW	SW846 8260B
1,1,2-Trichloroethane	Below det lim	ug/Kg	34.0	8/6/2002	KW	SW846 8260B
Trichloroethene (TCE)	Below det lim	ug/Kg	34.0	8/6/2002	KW	SW846 8260B
Trichlorofluoromethane	Below det lim	ug/Kg	34.0	8/6/2002	KW	SW846 8260B
1,2,3-Trichloropropane	Below det lim	ug/Kg	34.0	8/6/2002	KW	SW846 8260B
1,2,4-Trimethylbenzene	Below det lim	ug/Kg	34.0	8/6/2002	KW	SW846 8260B
1,3,5-Trimethylbenzene	Below det lim	ug/Kg	34.0	8/6/2002	KW	SW846 8260B
Vinyl chloride	Below det lim	ug/Kg	34.0	8/6/2002	KW	SW846 8260B
m,p-Xylenes	Below det lim	ug/Kg	68.0	8/6/2002	KW	SW846 8260B
o-Xylene	Below det lim	ug/Kg	34.0	8/6/2002	KW	SW846 8260B
4-Bromofluorobenzene (%SR)	97	ug/Kg	0.000	8/6/2002	KW	SW846 8260B
1,4-Difluorobenzene (%SR)	99	ug/Kg	0.000	8/6/2002	KW	SW846 8260B
Chlorobenzene-d5 (%SR)	96	ug/Kg	0.000	8/6/2002	KW	SW846 8260B

Lab ID No: AD31185
Client Id: P-3-3 (5-7)

Collection Date: 7/30/2002
Matrix Sediment

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VOC Preparation						
VOC Extraction (solid)	Field ext			7/30/2002		SW846 5035
Volatile Organic Compounds						
VOCs by GC/MS						
Acetone	Below det lim	ug/Kg	1040	8/6/2002	KW	SW846 8260B
Acrylonitrile	Below det lim	ug/Kg	52.0	8/6/2002	KW	SW846 8260B
Benzene	Below det lim	ug/Kg	52.0	8/6/2002	KW	SW846 8260B
Bromobenzene	Below det lim	ug/Kg	52.0	8/6/2002	KW	SW846 8260B
Bromochloromethane	Below det lim	ug/Kg	52.0	8/6/2002	KW	SW846 8260B
Bromodichloromethane	Below det lim	ug/Kg	52.0	8/6/2002	KW	SW846 8260B
Bromoform	Below det lim	ug/Kg	52.0	8/6/2002	KW	SW846 8260B
Bromomethane	Below det lim	ug/Kg	104	8/6/2002	KW	SW846 8260B
2-Butanone (MEK)	Below det lim	ug/Kg	520	8/6/2002	KW	SW846 8260B
n-Butylbenzene	Below det lim	ug/Kg	52.0	8/6/2002	KW	SW846 8260B
sec-Butylbenzene	Below det lim	ug/Kg	52.0	8/6/2002	KW	SW846 8260B
tert-Butylbenzene	Below det lim	ug/Kg	52.0	8/6/2002	KW	SW846 8260B
Carbon disulfide	Below det lim	ug/Kg	260	8/6/2002	KW	SW846 8260B
Carbon tetrachloride	Below det lim	ug/Kg	52.0	8/6/2002	KW	SW846 8260B
Chlorobenzene	Below det lim	ug/Kg	52.0	8/6/2002	KW	SW846 8260B
Chloroethane	Below det lim	ug/Kg	104	8/6/2002	KW	SW846 8260B
Chloroform	Below det lim	ug/Kg	52.0	8/6/2002	KW	SW846 8260B
Chloromethane	Below det lim	ug/Kg	104	8/6/2002	KW	SW846 8260B
2-Chlorotoluene	Below det lim	ug/Kg	52.0	8/6/2002	KW	SW846 8260B
4-Chlorotoluene	Below det lim	ug/Kg	52.0	8/6/2002	KW	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	Below det lim	ug/Kg	104	8/6/2002	KW	SW846 8260B
Dibromochloromethane	Below det lim	ug/Kg	52.0	8/6/2002	KW	SW846 8260B
1,2-Dibromoethane (EDB)	Below det lim	ug/Kg	52.0	8/6/2002	KW	SW846 8260B
Dibromomethane	Below det lim	ug/Kg	52.0	8/6/2002	KW	SW846 8260B
1,2-Dichlorobenzene	Below det lim	ug/Kg	52.0	8/6/2002	KW	SW846 8260B
1,3-Dichlorobenzene	Below det lim	ug/Kg	52.0	8/6/2002	KW	SW846 8260B
1,4-Dichlorobenzene	Below det lim	ug/Kg	52.0	8/6/2002	KW	SW846 8260B
Dichlorodifluoromethane	Below det lim	ug/Kg	104	8/6/2002	KW	SW846 8260B
1,1-Dichloroethane	Below det lim	ug/Kg	52.0	8/6/2002	KW	SW846 8260B
1,2-Dichloroethane	Below det lim	ug/Kg	52.0	8/6/2002	KW	SW846 8260B
1,1-Dichloroethene	Below det lim	ug/Kg	52.0	8/6/2002	KW	SW846 8260B
cis-1,2-Dichloroethene	Below det lim	ug/Kg	52.0	8/6/2002	KW	SW846 8260B
trans-1,2-Dichloroethene	Below det lim	ug/Kg	52.0	8/6/2002	KW	SW846 8260B
1,2-Dichloropropane	Below det lim	ug/Kg	52.0	8/6/2002	KW	SW846 8260B
1,3-Dichloropropane	Below det lim	ug/Kg	52.0	8/6/2002	KW	SW846 8260B
2,2-Dichloropropane	Below det lim	ug/Kg	52.0	8/6/2002	KW	SW846 8260B
1,1-Dichloropropene	Below det lim	ug/Kg	52.0	8/6/2002	KW	SW846 8260B
cis-1,3-Dichloropropene	Below det lim	ug/Kg	52.0	8/6/2002	KW	SW846 8260B

Lab ID No: AD31185
Client Id: P-3-3 (5-7)

Collection Date: 7/30/2002
Matrix Sediment

Parameter	Results	Units	PQL	Start Date	Analyst	Method
trans-1,3-Dichloropropene	Below det lim	ug/Kg	52.0	8/6/2002	KW	SW846 8260B
Ethylbenzene	Below det lim	ug/Kg	52.0	8/6/2002	KW	SW846 8260B
Hexachlorobutadiene	Below det lim	ug/Kg	52.0	8/6/2002	KW	SW846 8260B
2-Hexanone (MBK)	Below det lim	ug/Kg	520	8/6/2002	KW	SW846 8260B
Isopropylbenzene	Below det lim	ug/Kg	52.0	8/6/2002	KW	SW846 8260B
4-Isopropyltoluene	Below det lim	ug/Kg	52.0	8/6/2002	KW	SW846 8260B
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/Kg	52.0	8/6/2002	KW	SW846 8260B
4-Methyl-2-pentanone (MIBK)	Below det lim	ug/Kg	520	8/6/2002	KW	SW846 8260B
Methylene chloride	Below det lim	ug/Kg	220	8/6/2002	KW	SW846 8260B
Naphthalene	Below det lim	ug/Kg	52.0	8/6/2002	KW	SW846 8260B
n-Propylbenzene	Below det lim	ug/Kg	52.0	8/6/2002	KW	SW846 8260B
Styrene	Below det lim	ug/Kg	52.0	8/6/2002	KW	SW846 8260B
1,1,1,2-Tetrachloroethane	Below det lim	ug/Kg	52.0	8/6/2002	KW	SW846 8260B
1,1,2,2-Tetrachloroethane	Below det lim	ug/Kg	52.0	8/6/2002	KW	SW846 8260B
Tetrachloroethene (PCE)	Below det lim	ug/Kg	52.0	8/6/2002	KW	SW846 8260B
Toluene	Below det lim	ug/Kg	52.0	8/6/2002	KW	SW846 8260B
1,2,3-Trichlorobenzene	Below det lim	ug/Kg	52.0	8/6/2002	KW	SW846 8260B
1,2,4-Trichlorobenzene	Below det lim	ug/Kg	52.0	8/6/2002	KW	SW846 8260B
1,1,1-Trichloroethane	Below det lim	ug/Kg	52.0	8/6/2002	KW	SW846 8260B
1,1,2-Trichloroethane	Below det lim	ug/Kg	52.0	8/6/2002	KW	SW846 8260B
Trichloroethene (TCE)	Below det lim	ug/Kg	52.0	8/6/2002	KW	SW846 8260B
Trichlorofluoromethane	Below det lim	ug/Kg	52.0	8/6/2002	KW	SW846 8260B
1,2,3-Trichloropropane	Below det lim	ug/Kg	52.0	8/6/2002	KW	SW846 8260B
1,2,4-Trimethylbenzene	Below det lim	ug/Kg	52.0	8/6/2002	KW	SW846 8260B
1,3,5-Trimethylbenzene	Below det lim	ug/Kg	52.0	8/6/2002	KW	SW846 8260B
Vinyl chloride	Below det lim	ug/Kg	52.0	8/6/2002	KW	SW846 8260B
m,p-Xylenes	Below det lim	ug/Kg	104	8/6/2002	KW	SW846 8260B
o-Xylene	Below det lim	ug/Kg	52.0	8/6/2002	KW	SW846 8260B
4-Bromofluorobenzene (%SR)	96	ug/Kg	0.000	8/6/2002	KW	SW846 8260B
1,4-Difluorobenzene (%SR)	101	ug/Kg	0.000	8/6/2002	KW	SW846 8260B
Chlorobenzene-d5 (%SR)	97	ug/Kg	0.000	8/6/2002	KW	SW846 8260B
Metals Preparation						
Mercury Digestion	Completed			8/7/2002	RB	EPA 245.1
Mercury Digestion on Leachate	Completed			8/7/2002	LK	EPA 245.1
Metals Digestion	Completed			8/7/2002	RB	EPA 200.7
Metals Digestion on Leachate	Completed			8/7/2002	LK	EPA 200.7
Metals Analysis						
SPLP RCRA8 Metals						
SPLP Arsenic	Below det lim	mg/L	0.015	8/7/2002	KSE	1312/200.7
SPLP Barium	Below det lim	mg/L	0.105	8/7/2002	KSE	1312/200.7
SPLP Cadmium	Below det lim	mg/L	0.0025	8/7/2002	KSE	1312/200.7
SPLP Chromium	Below det lim	mg/L	0.005	8/7/2002	KSE	1312/200.7

Lab ID No: AD31185
Client Id: P-3-3 (5-7)

Collection Date: 7/30/2002
Matrix Sediment

Parameter	Results	Units	PQL	Start Date		Analyst	Method
SPLP Lead	Below det lim	mg/L	0.0075	8/7/2002		KSE	1312/200.7
SPLP Selenium	Below det lim	mg/L	0.015	8/7/2002		KSE	1312/200.7
SPLP Silver	Below det lim	mg/L	0.010	8/7/2002		KSE	1312/200.7
SPLP Mercury	Below det lim	mg/L	0.0004	8/8/2002		EPE	1312/245.1
Total RCRA8 Metals							
Total Arsenic	Below det lim	mg/Kg	2.76	8/7/2002		CRE	EPA 200.7
Total Barium	15.1	mg/Kg	0.920	8/7/2002		CRE	EPA 200.7
Total Cadmium	Below det lim	mg/Kg	0.460	8/7/2002		CRE	EPA 200.7
Total Chromium	2.99	mg/Kg	0.920	8/7/2002		CRE	EPA 200.7
Total Lead	4.56	mg/Kg	1.38	8/7/2002		CRE	EPA 200.7
Total Selenium	Below det lim	mg/Kg	3.43	8/7/2002		CRE	EPA 200.7
Total Silver	Below det lim	mg/Kg	1.84	8/7/2002		CRE	EPA 200.7
Total Mercury	Below det lim	mg/Kg	0.162	8/8/2002		EPE	EPA 245.1
General Chemistry							
Flash Point	>200	degree F	200	8/2/2002	11:00	JC	SW846 1010
Ignitability of Solids	Negative	pos/neg		8/2/2002	11:00	JC	SW846 1030
pH	8.44@23.0	pH Units		8/2/2002	11:00	JC	SW846 9045
TCLP/SPLP Preparation							
SPLP Extraction for Metals	Completed			8/5/2002		MP	SW846 1312

NOTE: Results based on wet weight due to insufficient sample volume.

Lab ID No: AD31186 **Collection Date:** 7/30/2002
Client Id: P-3-3 (15-17) **Matrix** Sediment

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VOC Preparation						
VOC Extraction (solid)	Field ext			7/30/2002		SW846 5035
Volatile Organic Compounds						
VOCs by GC/MS						
Acetone	Below det lim	ug/Kg	3380	8/6/2002	KW	SW846 8260B
Acrylonitrile	Below det lim	ug/Kg	169	8/6/2002	KW	SW846 8260B
Benzene	Below det lim	ug/Kg	169	8/6/2002	KW	SW846 8260B
Bromobenzene	Below det lim	ug/Kg	169	8/6/2002	KW	SW846 8260B
Bromochloromethane	Below det lim	ug/Kg	169	8/6/2002	KW	SW846 8260B
Bromodichloromethane	Below det lim	ug/Kg	169	8/6/2002	KW	SW846 8260B
Bromoform	Below det lim	ug/Kg	169	8/6/2002	KW	SW846 8260B
Bromomethane	Below det lim	ug/Kg	338	8/6/2002	KW	SW846 8260B
2-Butanone (MEK)	Below det lim	ug/Kg	1690	8/6/2002	KW	SW846 8260B
n-Butylbenzene	Below det lim	ug/Kg	169	8/6/2002	KW	SW846 8260B
sec-Butylbenzene	Below det lim	ug/Kg	169	8/6/2002	KW	SW846 8260B
tert-Butylbenzene	Below det lim	ug/Kg	169	8/6/2002	KW	SW846 8260B
Carbon disulfide	Below det lim	ug/Kg	845	8/6/2002	KW	SW846 8260B
Carbon tetrachloride	Below det lim	ug/Kg	169	8/6/2002	KW	SW846 8260B
Chlorobenzene	Below det lim	ug/Kg	169	8/6/2002	KW	SW846 8260B
Chloroethane	Below det lim	ug/Kg	338	8/6/2002	KW	SW846 8260B
Chloroform	Below det lim	ug/Kg	169	8/6/2002	KW	SW846 8260B
Chloromethane	Below det lim	ug/Kg	338	8/6/2002	KW	SW846 8260B
2-Chlorotoluene	Below det lim	ug/Kg	169	8/6/2002	KW	SW846 8260B
4-Chlorotoluene	Below det lim	ug/Kg	169	8/6/2002	KW	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	Below det lim	ug/Kg	338	8/6/2002	KW	SW846 8260B
Dibromochloromethane	Below det lim	ug/Kg	169	8/6/2002	KW	SW846 8260B
1,2-Dibromoethane (EDB)	Below det lim	ug/Kg	169	8/6/2002	KW	SW846 8260B
Dibromomethane	Below det lim	ug/Kg	169	8/6/2002	KW	SW846 8260B
1,2-Dichlorobenzene	Below det lim	ug/Kg	169	8/6/2002	KW	SW846 8260B
1,3-Dichlorobenzene	Below det lim	ug/Kg	169	8/6/2002	KW	SW846 8260B
1,4-Dichlorobenzene	Below det lim	ug/Kg	169	8/6/2002	KW	SW846 8260B
Dichlorodifluoromethane	Below det lim	ug/Kg	338	8/6/2002	KW	SW846 8260B
1,1-Dichloroethane	Below det lim	ug/Kg	169	8/6/2002	KW	SW846 8260B
1,2-Dichloroethane	Below det lim	ug/Kg	169	8/6/2002	KW	SW846 8260B
1,1-Dichloroethene	Below det lim	ug/Kg	169	8/6/2002	KW	SW846 8260B
cis-1,2-Dichloroethene	Below det lim	ug/Kg	169	8/6/2002	KW	SW846 8260B
trans-1,2-Dichloroethene	Below det lim	ug/Kg	169	8/6/2002	KW	SW846 8260B
1,2-Dichloropropane	Below det lim	ug/Kg	169	8/6/2002	KW	SW846 8260B
1,3-Dichloropropane	Below det lim	ug/Kg	169	8/6/2002	KW	SW846 8260B
2,2-Dichloropropane	Below det lim	ug/Kg	169	8/6/2002	KW	SW846 8260B
1,1-Dichloropropene	Below det lim	ug/Kg	169	8/6/2002	KW	SW846 8260B
cis-1,3-Dichloropropene	Below det lim	ug/Kg	169	8/6/2002	KW	SW846 8260B

Lab ID No: AD31186
Client Id: P-3-3 (15-17)

Collection Date: 7/30/2002
Matrix Sediment

Parameter	Results	Units	PQL	Start Date	Analyst	Method
trans-1,3-Dichloropropene	Below det lim	ug/Kg	169	8/6/2002	KW	SW846 8260B
Ethylbenzene	Below det lim	ug/Kg	169	8/6/2002	KW	SW846 8260B
Hexachlorobutadiene	Below det lim	ug/Kg	169	8/6/2002	KW	SW846 8260B
2-Hexanone (MBK)	Below det lim	ug/Kg	1690	8/6/2002	KW	SW846 8260B
Isopropylbenzene	Below det lim	ug/Kg	169	8/6/2002	KW	SW846 8260B
4-Isopropyltoluene	Below det lim	ug/Kg	169	8/6/2002	KW	SW846 8260B
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/Kg	169	8/6/2002	KW	SW846 8260B
4-Methyl-2-pentanone (MIBK)	Below det lim	ug/Kg	1690	8/6/2002	KW	SW846 8260B
Methylene chloride	Below det lim	ug/Kg	730	8/6/2002	KW	SW846 8260B
Naphthalene	Below det lim	ug/Kg	169	8/6/2002	KW	SW846 8260B
n-Propylbenzene	Below det lim	ug/Kg	169	8/6/2002	KW	SW846 8260B
Styrene	Below det lim	ug/Kg	169	8/6/2002	KW	SW846 8260B
1,1,1,2-Tetrachloroethane	Below det lim	ug/Kg	169	8/6/2002	KW	SW846 8260B
1,1,2,2-Tetrachloroethane	Below det lim	ug/Kg	169	8/6/2002	KW	SW846 8260B
Tetrachloroethene (PCE)	Below det lim	ug/Kg	169	8/6/2002	KW	SW846 8260B
Toluene	Below det lim	ug/Kg	169	8/6/2002	KW	SW846 8260B
1,2,3-Trichlorobenzene	Below det lim	ug/Kg	169	8/6/2002	KW	SW846 8260B
1,2,4-Trichlorobenzene	Below det lim	ug/Kg	169	8/6/2002	KW	SW846 8260B
1,1,1-Trichloroethane	Below det lim	ug/Kg	169	8/6/2002	KW	SW846 8260B
1,1,2-Trichloroethane	Below det lim	ug/Kg	169	8/6/2002	KW	SW846 8260B
Trichloroethene (TCE)	Below det lim	ug/Kg	169	8/6/2002	KW	SW846 8260B
Trichlorofluoromethane	Below det lim	ug/Kg	169	8/6/2002	KW	SW846 8260B
1,2,3-Trichloropropane	Below det lim	ug/Kg	169	8/6/2002	KW	SW846 8260B
1,2,4-Trimethylbenzene	Below det lim	ug/Kg	169	8/6/2002	KW	SW846 8260B
1,3,5-Trimethylbenzene	Below det lim	ug/Kg	169	8/6/2002	KW	SW846 8260B
Vinyl chloride	Below det lim	ug/Kg	169	8/6/2002	KW	SW846 8260B
m,p-Xylenes	Below det lim	ug/Kg	338	8/6/2002	KW	SW846 8260B
o-Xylene	Below det lim	ug/Kg	169	8/6/2002	KW	SW846 8260B
4-Bromofluorobenzene (%SR)	105	ug/Kg	0.000	8/6/2002	KW	SW846 8260B
1,4-Difluorobenzene (%SR)	100	ug/Kg	0.000	8/6/2002	KW	SW846 8260B
Chlorobenzene-d5 (%SR)	98	ug/Kg	0.000	8/6/2002	KW	SW846 8260B
TPH Preparation						
Ultrasonic Extraction	Completed			8/7/2002	RT	SW846 3550B
Petroleum Hydrocarbon Analysis						
Extractable TPH						
Total Petroleum Hydrocarbons (C9-C36)	Below det lim	mg/Kg	50	8/7/2002	JD	CT ETPH
Gasoline	Below det lim	mg/Kg	50	8/7/2002	JD	CT ETPH
Fuel Oil #2	Below det lim	mg/Kg	50	8/7/2002	JD	CT ETPH
Fuel Oil #4	Below det lim	mg/Kg	50	8/7/2002	JD	CT ETPH
Fuel Oil #6	Below det lim	mg/Kg	50	8/7/2002	JD	CT ETPH
Motor Oil	Below det lim	mg/Kg	50	8/7/2002	JD	CT ETPH
Aviation Fuel	Below det lim	mg/Kg	50	8/7/2002	JD	CT ETPH

Lab ID No: AD31186 **Collection Date:** 7/30/2002
Client Id: P-3-3 (15-17) **Matrix** Sediment

Parameter	Results	Units	PQL	Start Date	Analyst	Method
Unidentified	Below det lim	mg/Kg	50	8/7/2002	JD	CT ETPH
Other Oil	Below det lim	mg/Kg	50	8/7/2002	JD	CT ETPH
1-Chloro-octadecane (%SR)	90	mg/Kg	0.	8/7/2002	JD	CT ETPH
SVOC Preparation						
Ultrasonic Extraction	Completed			8/7/2002	RT	SW846 3550B
Semivolatile Organic Compounds						
PAHs by GC/MS						
Naphthalene	Below det lim	ug/Kg	227	8/7/2002	MSL	SW846 8270C
2-Methylnaphthalene	Below det lim	ug/Kg	227	8/7/2002	MSL	SW846 8270C
1-Methylnaphthalene	Below det lim	ug/Kg	227	8/7/2002	MSL	SW846 8270C
Acenaphthylene	Below det lim	ug/Kg	227	8/7/2002	MSL	SW846 8270C
Acenaphthene	Below det lim	ug/Kg	227	8/7/2002	MSL	SW846 8270C
Fluorene	Below det lim	ug/Kg	227	8/7/2002	MSL	SW846 8270C
Phenanthrene	Below det lim	ug/Kg	227	8/7/2002	MSL	SW846 8270C
Anthracene	Below det lim	ug/Kg	227	8/7/2002	MSL	SW846 8270C
Fluoranthene	Below det lim	ug/Kg	227	8/7/2002	MSL	SW846 8270C
Pyrene	Below det lim	ug/Kg	227	8/7/2002	MSL	SW846 8270C
Benzo (a) anthracene	Below det lim	ug/Kg	227	8/7/2002	MSL	SW846 8270C
Chrysene	Below det lim	ug/Kg	227	8/7/2002	MSL	SW846 8270C
Benzo (b) fluoranthene	Below det lim	ug/Kg	227	8/7/2002	MSL	SW846 8270C
Benzo (k) fluoranthene	Below det lim	ug/Kg	227	8/7/2002	MSL	SW846 8270C
Benzo (a) pyrene	Below det lim	ug/Kg	227	8/7/2002	MSL	SW846 8270C
Indeno (1,2,3-cd) pyrene	Below det lim	ug/Kg	227	8/7/2002	MSL	SW846 8270C
Dibenzo (a,h) anthracene	Below det lim	ug/Kg	227	8/7/2002	MSL	SW846 8270C
Benzo (g,h,i) perylene	Below det lim	ug/Kg	227	8/7/2002	MSL	SW846 8270C
2-Fluorobiphenyl (%SR)	65	ug/Kg	0.000	8/7/2002	MSL	SW846 8270C
Terphenyl-d14 (%SR)	82	ug/Kg	0.000	8/7/2002	MSL	SW846 8270C
Semivolatile Organic Compounds						
Polychlorinated Biphenyls by GC						
PCB-1016	Below det lim	ug/Kg	160	8/7/2002	TG	SW846 8082
PCB-1221	Below det lim	ug/Kg	160	8/7/2002	TG	SW846 8082
PCB-1232	Below det lim	ug/Kg	160	8/7/2002	TG	SW846 8082
PCB-1242	Below det lim	ug/Kg	160	8/7/2002	TG	SW846 8082
PCB-1248	Below det lim	ug/Kg	160	8/7/2002	TG	SW846 8082
PCB-1254	Below det lim	ug/Kg	160	8/7/2002	TG	SW846 8082
PCB-1260	Below det lim	ug/Kg	160	8/7/2002	TG	SW846 8082
Decachlorobiphenyl (%SR)	83	ug/Kg	0.00	8/7/2002	TG	SW846 8082
Metals Preparation						
Mercury Digestion	Completed			8/7/2002	RB	EPA 245.1
Mercury Digestion on Leachate	Completed			8/7/2002	LK	EPA 245.1
Metals Digestion	Completed			8/7/2002	RB	EPA 200.7

Lab ID No: AD31186
Client Id: P-3-3 (15-17)

Collection Date: 7/30/2002
Matrix Sediment

Parameter	Results	Units	PQL	Start Date	Analyst	Method
Metals Digestion on Leachate	Completed			8/7/2002	LK	EPA 200.7
Metals Analysis						
SPLP RCRA8 Metals						
SPLP Arsenic	Below det lim	mg/L	0.015	8/7/2002	KSE	1312/200.7
SPLP Barium	Below det lim	mg/L	0.151	8/7/2002	KSE	1312/200.7
SPLP Cadmium	Below det lim	mg/L	0.0025	8/7/2002	KSE	1312/200.7
SPLP Chromium	Below det lim	mg/L	0.005	8/7/2002	KSE	1312/200.7
SPLP Lead	Below det lim	mg/L	0.0075	8/7/2002	KSE	1312/200.7
SPLP Selenium	Below det lim	mg/L	0.015	8/7/2002	KSE	1312/200.7
SPLP Silver	Below det lim	mg/L	0.010	8/7/2002	KSE	1312/200.7
SPLP Mercury	Below det lim	mg/L	0.0004	8/8/2002	EPE	1312/245.1
Total RCRA8 Metals						
Total Arsenic	3.74	mg/Kg	2.58	8/7/2002	CRE	EPA 200.7
Total Barium	15.8	mg/Kg	0.860	8/7/2002	CRE	EPA 200.7
Total Cadmium	Below det lim	mg/Kg	0.430	8/7/2002	CRE	EPA 200.7
Total Chromium	5.24	mg/Kg	0.860	8/7/2002	CRE	EPA 200.7
Total Lead	4.78	mg/Kg	1.29	8/7/2002	CRE	EPA 200.7
Total Selenium	Below det lim	mg/Kg	4.78	8/7/2002	CRE	EPA 200.7
Total Silver	Below det lim	mg/Kg	1.72	8/7/2002	CRE	EPA 200.7
Total Mercury	Below det lim	mg/Kg	0.1531	8/8/2002	EPE	EPA 245.1
TCLP/SPLP Preparation						
SPLP Extraction for Metals	Completed			8/5/2002	MP	SW846 1312
General Chemistry						
Reactivity - Cyanide/Sulfide						
Reactivity	Negative	mg/Kg		8/6/2002	DMM	SW846 7.3
Reactivity Cyanide	Below det lim	mg/Kg	0.48	8/6/2002	DMM	SW846 7.3
Reactivity Sulfide	Below det lim	mg/Kg	48	8/6/2002	DMM	SW846 7.3
% Solids	50	%		8/7/2002	RT	SM2540 B Mod

Lab ID No: AD31187
Client Id: P-3-3 (25-27)

Collection Date: 7/30/2002
Matrix Sediment

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VOC Preparation						
VOC Extraction (solid)	Field ext			7/30/2002		SW846 5035
Volatile Organic Compounds						
VOCs by GC/MS						
Acetone	Below det lim	ug/Kg	3380	8/6/2002	KW	SW846 8260B
Acrylonitrile	Below det lim	ug/Kg	169	8/6/2002	KW	SW846 8260B
Benzene	Below det lim	ug/Kg	169	8/6/2002	KW	SW846 8260B
Bromobenzene	Below det lim	ug/Kg	169	8/6/2002	KW	SW846 8260B
Bromochloromethane	Below det lim	ug/Kg	169	8/6/2002	KW	SW846 8260B
Bromodichloromethane	Below det lim	ug/Kg	169	8/6/2002	KW	SW846 8260B
Bromoform	Below det lim	ug/Kg	169	8/6/2002	KW	SW846 8260B
Bromomethane	Below det lim	ug/Kg	338	8/6/2002	KW	SW846 8260B
2-Butanone (MEK)	Below det lim	ug/Kg	1690	8/6/2002	KW	SW846 8260B
n-Butylbenzene	Below det lim	ug/Kg	169	8/6/2002	KW	SW846 8260B
sec-Butylbenzene	Below det lim	ug/Kg	169	8/6/2002	KW	SW846 8260B
tert-Butylbenzene	Below det lim	ug/Kg	169	8/6/2002	KW	SW846 8260B
Carbon disulfide	Below det lim	ug/Kg	845	8/6/2002	KW	SW846 8260B
Carbon tetrachloride	Below det lim	ug/Kg	169	8/6/2002	KW	SW846 8260B
Chlorobenzene	Below det lim	ug/Kg	169	8/6/2002	KW	SW846 8260B
Chloroethane	Below det lim	ug/Kg	338	8/6/2002	KW	SW846 8260B
Chloroform	Below det lim	ug/Kg	169	8/6/2002	KW	SW846 8260B
Chloromethane	Below det lim	ug/Kg	338	8/6/2002	KW	SW846 8260B
2-Chlorotoluene	Below det lim	ug/Kg	169	8/6/2002	KW	SW846 8260B
4-Chlorotoluene	Below det lim	ug/Kg	169	8/6/2002	KW	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	Below det lim	ug/Kg	338	8/6/2002	KW	SW846 8260B
Dibromochloromethane	Below det lim	ug/Kg	169	8/6/2002	KW	SW846 8260B
1,2-Dibromoethane (EDB)	Below det lim	ug/Kg	169	8/6/2002	KW	SW846 8260B
Dibromomethane	Below det lim	ug/Kg	169	8/6/2002	KW	SW846 8260B
1,2-Dichlorobenzene	Below det lim	ug/Kg	169	8/6/2002	KW	SW846 8260B
1,3-Dichlorobenzene	Below det lim	ug/Kg	169	8/6/2002	KW	SW846 8260B
1,4-Dichlorobenzene	Below det lim	ug/Kg	169	8/6/2002	KW	SW846 8260B
Dichlorodifluoromethane	Below det lim	ug/Kg	338	8/6/2002	KW	SW846 8260B
1,1-Dichloroethane	Below det lim	ug/Kg	169	8/6/2002	KW	SW846 8260B
1,2-Dichloroethane	Below det lim	ug/Kg	169	8/6/2002	KW	SW846 8260B
1,1-Dichloroethene	Below det lim	ug/Kg	169	8/6/2002	KW	SW846 8260B
cis-1,2-Dichloroethene	Below det lim	ug/Kg	169	8/6/2002	KW	SW846 8260B
trans-1,2-Dichloroethene	Below det lim	ug/Kg	169	8/6/2002	KW	SW846 8260B
1,2-Dichloropropane	Below det lim	ug/Kg	169	8/6/2002	KW	SW846 8260B
1,3-Dichloropropane	Below det lim	ug/Kg	169	8/6/2002	KW	SW846 8260B
2,2-Dichloropropane	Below det lim	ug/Kg	169	8/6/2002	KW	SW846 8260B
1,1-Dichloropropene	Below det lim	ug/Kg	169	8/6/2002	KW	SW846 8260B
cis-1,3-Dichloropropene	Below det lim	ug/Kg	169	8/6/2002	KW	SW846 8260B

Lab ID No: AD31187 **Collection Date:** 7/30/2002
Client Id: P-3-3 (25-27) **Matrix** Sediment

Parameter	Results	Units	PQL	Start Date	Analyst	Method
trans-1,3-Dichloropropene	Below det lim	ug/Kg	169	8/6/2002	KW	SW846 8260B
Ethylbenzene	Below det lim	ug/Kg	169	8/6/2002	KW	SW846 8260B
Hexachlorobutadiene	Below det lim	ug/Kg	169	8/6/2002	KW	SW846 8260B
2-Hexanone (MBK)	Below det lim	ug/Kg	1690	8/6/2002	KW	SW846 8260B
Isopropylbenzene	Below det lim	ug/Kg	169	8/6/2002	KW	SW846 8260B
4-Isopropyltoluene	Below det lim	ug/Kg	169	8/6/2002	KW	SW846 8260B
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/Kg	169	8/6/2002	KW	SW846 8260B
4-Methyl-2-pentanone (MIBK)	Below det lim	ug/Kg	1690	8/6/2002	KW	SW846 8260B
Methylene chloride	Below det lim	ug/Kg	620	8/6/2002	KW	SW846 8260B
Naphthalene	Below det lim	ug/Kg	169	8/6/2002	KW	SW846 8260B
n-Propylbenzene	Below det lim	ug/Kg	169	8/6/2002	KW	SW846 8260B
Styrene	Below det lim	ug/Kg	169	8/6/2002	KW	SW846 8260B
1,1,1,2-Tetrachloroethane	Below det lim	ug/Kg	169	8/6/2002	KW	SW846 8260B
1,1,2,2-Tetrachloroethane	Below det lim	ug/Kg	169	8/6/2002	KW	SW846 8260B
Tetrachloroethene (PCE)	Below det lim	ug/Kg	169	8/6/2002	KW	SW846 8260B
Toluene	Below det lim	ug/Kg	169	8/6/2002	KW	SW846 8260B
1,2,3-Trichlorobenzene	Below det lim	ug/Kg	169	8/6/2002	KW	SW846 8260B
1,2,4-Trichlorobenzene	Below det lim	ug/Kg	169	8/6/2002	KW	SW846 8260B
1,1,1-Trichloroethane	Below det lim	ug/Kg	169	8/6/2002	KW	SW846 8260B
1,1,2-Trichloroethane	Below det lim	ug/Kg	169	8/6/2002	KW	SW846 8260B
Trichloroethene (TCE)	Below det lim	ug/Kg	169	8/6/2002	KW	SW846 8260B
Trichlorofluoromethane	Below det lim	ug/Kg	169	8/6/2002	KW	SW846 8260B
1,2,3-Trichloropropane	Below det lim	ug/Kg	169	8/6/2002	KW	SW846 8260B
1,2,4-Trimethylbenzene	Below det lim	ug/Kg	169	8/6/2002	KW	SW846 8260B
1,3,5-Trimethylbenzene	Below det lim	ug/Kg	169	8/6/2002	KW	SW846 8260B
Vinyl chloride	Below det lim	ug/Kg	169	8/6/2002	KW	SW846 8260B
m,p-Xylenes	Below det lim	ug/Kg	338	8/6/2002	KW	SW846 8260B
o-Xylene	Below det lim	ug/Kg	169	8/6/2002	KW	SW846 8260B
4-Bromofluorobenzene (%SR)	91	ug/Kg	0.000	8/6/2002	KW	SW846 8260B
1,4-Difluorobenzene (%SR)	102	ug/Kg	0.000	8/6/2002	KW	SW846 8260B
Chlorobenzene-d5 (%SR)	98	ug/Kg	0.000	8/6/2002	KW	SW846 8260B
TPH Preparation						
Ultrasonic Extraction	Completed			8/7/2002	RT	SW846 3550B
Petroleum Hydrocarbon Analysis						
Extractable TPH						
Total Petroleum Hydrocarbons (C9-C36)	Below det lim	mg/Kg	40	8/8/2002	JD	CT ETPH
Gasoline	Below det lim	mg/Kg	40	8/8/2002	JD	CT ETPH
Fuel Oil #2	Below det lim	mg/Kg	40	8/8/2002	JD	CT ETPH
Fuel Oil #4	Below det lim	mg/Kg	40	8/8/2002	JD	CT ETPH
Fuel Oil #6	Below det lim	mg/Kg	40	8/8/2002	JD	CT ETPH
Motor Oil	Below det lim	mg/Kg	40	8/8/2002	JD	CT ETPH
Aviation Fuel	Below det lim	mg/Kg	40	8/8/2002	JD	CT ETPH

Lab ID No: AD31187
Client Id: P-3-3 (25-27)

Collection Date: 7/30/2002
Matrix Sediment

Parameter	Results	Units	PQL	Start Date	Analyst	Method
Unidentified	Below det lim	mg/Kg	40	8/8/2002	JD	CT ETPH
Other Oil	Below det lim	mg/Kg	40	8/8/2002	JD	CT ETPH
1-Chloro-octadecane (%SR)	74	mg/Kg	0.	8/8/2002	JD	CT ETPH
Metals Preparation						
Mercury Digestion	Completed			8/7/2002	RB	EPA 245.1
Mercury Digestion on Leachate	Completed			8/7/2002	LK	EPA 245.1
Metals Digestion	Completed			8/7/2002	RB	EPA 200.7
Metals Digestion on Leachate	Completed			8/7/2002	LK	EPA 200.7
Metals Analysis						
SPLP RCRA8 Metals						
SPLP Arsenic	Below det lim	mg/L	0.015	8/7/2002	KSE	1312/200.7
SPLP Barium	Below det lim	mg/L	0.134	8/7/2002	KSE	1312/200.7
SPLP Cadmium	Below det lim	mg/L	0.0025	8/7/2002	KSE	1312/200.7
SPLP Chromium	Below det lim	mg/L	0.005	8/7/2002	KSE	1312/200.7
SPLP Lead	Below det lim	mg/L	0.0075	8/7/2002	KSE	1312/200.7
SPLP Selenium	Below det lim	mg/L	0.015	8/7/2002	KSE	1312/200.7
SPLP Silver	Below det lim	mg/L	0.010	8/7/2002	KSE	1312/200.7
SPLP Mercury	Below det lim	mg/L	0.0004	8/8/2002	EPE	1312/245.1
Total RCRA8 Metals						
Total Arsenic	3.69	mg/Kg	2.49	8/7/2002	CRE	EPA 200.7
Total Barium	12.9	mg/Kg	0.830	8/7/2002	CRE	EPA 200.7
Total Cadmium	Below det lim	mg/Kg	0.415	8/7/2002	CRE	EPA 200.7
Total Chromium	5.18	mg/Kg	0.830	8/7/2002	CRE	EPA 200.7
Total Lead	5.22	mg/Kg	1.24	8/7/2002	CRE	EPA 200.7
Total Selenium	Below det lim	mg/Kg	4.76	8/7/2002	CRE	EPA 200.7
Total Silver	Below det lim	mg/Kg	1.66	8/7/2002	CRE	EPA 200.7
Total Mercury	Below det lim	mg/Kg	0.162	8/8/2002	EPE	EPA 245.1
TCLP/SPLP Preparation						
SPLP Extraction for Metals	Completed			8/5/2002	MP	SW846 1312
% Solids	54.8	%		8/7/2002	RT	SM2540 B Mod

Lab ID No: AD31188
Client Id: P-3-3 (30-32)

Collection Date: 7/30/2002
Matrix Sediment

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VOC Preparation						
VOC Extraction (solid)	Field ext			7/30/2002		SW846 5035
Volatile Organic Compounds						
VOCs by GC/MS						
Acetone	Below det lim	ug/Kg	1580	8/6/2002	KW	SW846 8260B
Acrylonitrile	Below det lim	ug/Kg	79.0	8/6/2002	KW	SW846 8260B
Benzene	Below det lim	ug/Kg	79.0	8/6/2002	KW	SW846 8260B
Bromobenzene	Below det lim	ug/Kg	79.0	8/6/2002	KW	SW846 8260B
Bromochloromethane	Below det lim	ug/Kg	79.0	8/6/2002	KW	SW846 8260B
Bromodichloromethane	Below det lim	ug/Kg	79.0	8/6/2002	KW	SW846 8260B
Bromoform	Below det lim	ug/Kg	79.0	8/6/2002	KW	SW846 8260B
Bromomethane	Below det lim	ug/Kg	158	8/6/2002	KW	SW846 8260B
2-Butanone (MEK)	Below det lim	ug/Kg	790	8/6/2002	KW	SW846 8260B
n-Butylbenzene	Below det lim	ug/Kg	79.0	8/6/2002	KW	SW846 8260B
sec-Butylbenzene	Below det lim	ug/Kg	79.0	8/6/2002	KW	SW846 8260B
tert-Butylbenzene	Below det lim	ug/Kg	79.0	8/6/2002	KW	SW846 8260B
Carbon disulfide	Below det lim	ug/Kg	395	8/6/2002	KW	SW846 8260B
Carbon tetrachloride	Below det lim	ug/Kg	79.0	8/6/2002	KW	SW846 8260B
Chlorobenzene	Below det lim	ug/Kg	79.0	8/6/2002	KW	SW846 8260B
Chloroethane	Below det lim	ug/Kg	158	8/6/2002	KW	SW846 8260B
Chloroform	Below det lim	ug/Kg	79.0	8/6/2002	KW	SW846 8260B
Chloromethane	Below det lim	ug/Kg	158	8/6/2002	KW	SW846 8260B
2-Chlorotoluene	Below det lim	ug/Kg	79.0	8/6/2002	KW	SW846 8260B
4-Chlorotoluene	Below det lim	ug/Kg	79.0	8/6/2002	KW	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	Below det lim	ug/Kg	158	8/6/2002	KW	SW846 8260B
Dibromochloromethane	Below det lim	ug/Kg	79.0	8/6/2002	KW	SW846 8260B
1,2-Dibromoethane (EDB)	Below det lim	ug/Kg	79.0	8/6/2002	KW	SW846 8260B
Dibromomethane	Below det lim	ug/Kg	79.0	8/6/2002	KW	SW846 8260B
1,2-Dichlorobenzene	Below det lim	ug/Kg	79.0	8/6/2002	KW	SW846 8260B
1,3-Dichlorobenzene	Below det lim	ug/Kg	79.0	8/6/2002	KW	SW846 8260B
1,4-Dichlorobenzene	Below det lim	ug/Kg	79.0	8/6/2002	KW	SW846 8260B
Dichlorodifluoromethane	Below det lim	ug/Kg	158	8/6/2002	KW	SW846 8260B
1,1-Dichloroethane	Below det lim	ug/Kg	79.0	8/6/2002	KW	SW846 8260B
1,2-Dichloroethane	Below det lim	ug/Kg	79.0	8/6/2002	KW	SW846 8260B
1,1-Dichloroethene	Below det lim	ug/Kg	79.0	8/6/2002	KW	SW846 8260B
cis-1,2-Dichloroethene	Below det lim	ug/Kg	79.0	8/6/2002	KW	SW846 8260B
trans-1,2-Dichloroethene	Below det lim	ug/Kg	79.0	8/6/2002	KW	SW846 8260B
1,2-Dichloropropane	Below det lim	ug/Kg	79.0	8/6/2002	KW	SW846 8260B
1,3-Dichloropropane	Below det lim	ug/Kg	79.0	8/6/2002	KW	SW846 8260B
2,2-Dichloropropane	Below det lim	ug/Kg	79.0	8/6/2002	KW	SW846 8260B
1,1-Dichloropropene	Below det lim	ug/Kg	79.0	8/6/2002	KW	SW846 8260B
cis-1,3-Dichloropropene	Below det lim	ug/Kg	79.0	8/6/2002	KW	SW846 8260B

Lab ID No: AD31188
Client Id: P-3-3 (30-32)

Collection Date: 7/30/2002
Matrix Sediment

Parameter	Results	Units	PQL	Start Date	Analyst	Method
trans-1,3-Dichloropropene	Below det lim	ug/Kg	79.0	8/6/2002	KW	SW846 8260B
Ethylbenzene	Below det lim	ug/Kg	79.0	8/6/2002	KW	SW846 8260B
Hexachlorobutadiene	Below det lim	ug/Kg	79.0	8/6/2002	KW	SW846 8260B
2-Hexanone (MBK)	Below det lim	ug/Kg	790	8/6/2002	KW	SW846 8260B
Isopropylbenzene	Below det lim	ug/Kg	79.0	8/6/2002	KW	SW846 8260B
4-Isopropyltoluene	Below det lim	ug/Kg	79.0	8/6/2002	KW	SW846 8260B
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/Kg	79.0	8/6/2002	KW	SW846 8260B
4-Methyl-2-pentanone (MIBK)	Below det lim	ug/Kg	790	8/6/2002	KW	SW846 8260B
Methylene chloride	Below det lim	ug/Kg	440	8/6/2002	KW	SW846 8260B
Naphthalene	Below det lim	ug/Kg	79.0	8/6/2002	KW	SW846 8260B
n-Propylbenzene	Below det lim	ug/Kg	79.0	8/6/2002	KW	SW846 8260B
Styrene	Below det lim	ug/Kg	79.0	8/6/2002	KW	SW846 8260B
1,1,1,2-Tetrachloroethane	Below det lim	ug/Kg	79.0	8/6/2002	KW	SW846 8260B
1,1,2,2-Tetrachloroethane	Below det lim	ug/Kg	79.0	8/6/2002	KW	SW846 8260B
Tetrachloroethene (PCE)	Below det lim	ug/Kg	79.0	8/6/2002	KW	SW846 8260B
Toluene	Below det lim	ug/Kg	79.0	8/6/2002	KW	SW846 8260B
1,2,3-Trichlorobenzene	Below det lim	ug/Kg	79.0	8/6/2002	KW	SW846 8260B
1,2,4-Trichlorobenzene	Below det lim	ug/Kg	79.0	8/6/2002	KW	SW846 8260B
1,1,1-Trichloroethane	Below det lim	ug/Kg	79.0	8/6/2002	KW	SW846 8260B
1,1,2-Trichloroethane	Below det lim	ug/Kg	79.0	8/6/2002	KW	SW846 8260B
Trichloroethene (TCE)	Below det lim	ug/Kg	79.0	8/6/2002	KW	SW846 8260B
Trichlorofluoromethane	Below det lim	ug/Kg	79.0	8/6/2002	KW	SW846 8260B
1,2,3-Trichloropropane	Below det lim	ug/Kg	79.0	8/6/2002	KW	SW846 8260B
1,2,4-Trimethylbenzene	Below det lim	ug/Kg	79.0	8/6/2002	KW	SW846 8260B
1,3,5-Trimethylbenzene	Below det lim	ug/Kg	79.0	8/6/2002	KW	SW846 8260B
Vinyl chloride	Below det lim	ug/Kg	79.0	8/6/2002	KW	SW846 8260B
m,p-Xylenes	Below det lim	ug/Kg	158	8/6/2002	KW	SW846 8260B
o-Xylene	Below det lim	ug/Kg	79.0	8/6/2002	KW	SW846 8260B
4-Bromofluorobenzene (%SR)	99	ug/Kg	0.000	8/6/2002	KW	SW846 8260B
1,4-Difluorobenzene (%SR)	102	ug/Kg	0.000	8/6/2002	KW	SW846 8260B
Chlorobenzene-d5 (%SR)	104	ug/Kg	0.000	8/6/2002	KW	SW846 8260B
TPH Preparation						
Ultrasonic Extraction	Completed			8/7/2002	RT	SW846 3550B
Petroleum Hydrocarbon Analysis						
Extractable TPH						
Total Petroleum Hydrocarbons (C9-C36)	Below det lim	mg/Kg	20	8/8/2002	JD	CT ETPH
Gasoline	Below det lim	mg/Kg	20	8/8/2002	JD	CT ETPH
Fuel Oil #2	Below det lim	mg/Kg	20	8/8/2002	JD	CT ETPH
Fuel Oil #4	Below det lim	mg/Kg	20	8/8/2002	JD	CT ETPH
Fuel Oil #6	Below det lim	mg/Kg	20	8/8/2002	JD	CT ETPH
Motor Oil	Below det lim	mg/Kg	20	8/8/2002	JD	CT ETPH
Aviation Fuel	Below det lim	mg/Kg	20	8/8/2002	JD	CT ETPH

Lab ID No: AD31188
Client Id: P-3-3 (30-32)

Collection Date: 7/30/2002
Matrix Sediment

Parameter	Results	Units	PQL	Start Date	Analyst	Method
Unidentified	Below det lim	mg/Kg	20	8/8/2002	JD	CT ETPH
Other Oil	Below det lim	mg/Kg	20	8/8/2002	JD	CT ETPH
1-Chloro-octadecane (%SR)	88	mg/Kg	0.	8/8/2002	JD	CT ETPH
Metals Preparation						
Mercury Digestion	Completed			8/7/2002	RB	EPA 245.1
Mercury Digestion on Leachate	Completed			8/7/2002	LK	EPA 245.1
Metals Digestion	Completed			8/7/2002	RB	EPA 200.7
Metals Digestion on Leachate	Completed			8/7/2002	LK	EPA 200.7
Metals Analysis						
SPLP RCRA8 Metals						
SPLP Arsenic	Below det lim	mg/L	0.015	8/7/2002	KSE	1312/200.7
SPLP Barium	Below det lim	mg/L	0.0257	8/7/2002	KSE	1312/200.7
SPLP Cadmium	Below det lim	mg/L	0.0025	8/7/2002	KSE	1312/200.7
SPLP Chromium	Below det lim	mg/L	0.005	8/7/2002	KSE	1312/200.7
SPLP Lead	Below det lim	mg/L	0.0075	8/7/2002	KSE	1312/200.7
SPLP Selenium	Below det lim	mg/L	0.015	8/7/2002	KSE	1312/200.7
SPLP Silver	Below det lim	mg/L	0.010	8/7/2002	KSE	1312/200.7
SPLP Mercury	Below det lim	mg/L	0.0004	8/8/2002	EPE	1312/245.1
Total RCRA8 Metals						
Total Arsenic	Below det lim	mg/Kg	2.66	8/7/2002	CRE	EPA 200.7
Total Barium	8.18	mg/Kg	0.887	8/7/2002	CRE	EPA 200.7
Total Cadmium	Below det lim	mg/Kg	0.444	8/7/2002	CRE	EPA 200.7
Total Chromium	Below det lim	mg/Kg	0.887	8/7/2002	CRE	EPA 200.7
Total Lead	1.50	mg/Kg	1.33	8/7/2002	CRE	EPA 200.7
Total Selenium	Below det lim	mg/Kg	2.66	8/7/2002	CRE	EPA 200.7
Total Silver	Below det lim	mg/Kg	1.77	8/7/2002	CRE	EPA 200.7
Total Mercury	Below det lim	mg/Kg	0.158	8/8/2002	EPE	EPA 245.1
TCLP/SPLP Preparation						
SPLP Extraction for Metals	Completed			8/5/2002	MP	SW846 1312
% Solids	76	%		8/7/2002	RT	SM2540 B Mod

Lab ID No: AD31189
Client Id: P-3-3 (35-37)

Collection Date: 7/30/2002
Matrix Sediment

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VOC Preparation						
VOC Extraction (solid)	Field ext			7/30/2002		SW846 5035
Volatile Organic Compounds						
VOCs by GC/MS						
Acetone	Below det lim	ug/Kg	1320	8/6/2002	KW	SW846 8260B
Acrylonitrile	Below det lim	ug/Kg	66.0	8/6/2002	KW	SW846 8260B
Benzene	Below det lim	ug/Kg	66.0	8/6/2002	KW	SW846 8260B
Bromobenzene	Below det lim	ug/Kg	66.0	8/6/2002	KW	SW846 8260B
Bromochloromethane	Below det lim	ug/Kg	66.0	8/6/2002	KW	SW846 8260B
Bromodichloromethane	Below det lim	ug/Kg	66.0	8/6/2002	KW	SW846 8260B
Bromoform	Below det lim	ug/Kg	66.0	8/6/2002	KW	SW846 8260B
Bromomethane	Below det lim	ug/Kg	132	8/6/2002	KW	SW846 8260B
2-Butanone (MEK)	Below det lim	ug/Kg	660	8/6/2002	KW	SW846 8260B
n-Butylbenzene	Below det lim	ug/Kg	66.0	8/6/2002	KW	SW846 8260B
sec-Butylbenzene	Below det lim	ug/Kg	66.0	8/6/2002	KW	SW846 8260B
tert-Butylbenzene	Below det lim	ug/Kg	66.0	8/6/2002	KW	SW846 8260B
Carbon disulfide	Below det lim	ug/Kg	330	8/6/2002	KW	SW846 8260B
Carbon tetrachloride	Below det lim	ug/Kg	66.0	8/6/2002	KW	SW846 8260B
Chlorobenzene	Below det lim	ug/Kg	66.0	8/6/2002	KW	SW846 8260B
Chloroethane	Below det lim	ug/Kg	132	8/6/2002	KW	SW846 8260B
Chloroform	Below det lim	ug/Kg	66.0	8/6/2002	KW	SW846 8260B
Chloromethane	Below det lim	ug/Kg	132	8/6/2002	KW	SW846 8260B
2-Chlorotoluene	Below det lim	ug/Kg	66.0	8/6/2002	KW	SW846 8260B
4-Chlorotoluene	Below det lim	ug/Kg	66.0	8/6/2002	KW	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	Below det lim	ug/Kg	132	8/6/2002	KW	SW846 8260B
Dibromochloromethane	Below det lim	ug/Kg	66.0	8/6/2002	KW	SW846 8260B
1,2-Dibromoethane (EDB)	Below det lim	ug/Kg	66.0	8/6/2002	KW	SW846 8260B
Dibromomethane	Below det lim	ug/Kg	66.0	8/6/2002	KW	SW846 8260B
1,2-Dichlorobenzene	Below det lim	ug/Kg	66.0	8/6/2002	KW	SW846 8260B
1,3-Dichlorobenzene	Below det lim	ug/Kg	66.0	8/6/2002	KW	SW846 8260B
1,4-Dichlorobenzene	Below det lim	ug/Kg	66.0	8/6/2002	KW	SW846 8260B
Dichlorodifluoromethane	Below det lim	ug/Kg	132	8/6/2002	KW	SW846 8260B
1,1-Dichloroethane	Below det lim	ug/Kg	66.0	8/6/2002	KW	SW846 8260B
1,2-Dichloroethane	Below det lim	ug/Kg	66.0	8/6/2002	KW	SW846 8260B
1,1-Dichloroethene	Below det lim	ug/Kg	66.0	8/6/2002	KW	SW846 8260B
cis-1,2-Dichloroethene	Below det lim	ug/Kg	66.0	8/6/2002	KW	SW846 8260B
trans-1,2-Dichloroethene	Below det lim	ug/Kg	66.0	8/6/2002	KW	SW846 8260B
1,2-Dichloropropane	Below det lim	ug/Kg	66.0	8/6/2002	KW	SW846 8260B
1,3-Dichloropropane	Below det lim	ug/Kg	66.0	8/6/2002	KW	SW846 8260B
2,2-Dichloropropane	Below det lim	ug/Kg	66.0	8/6/2002	KW	SW846 8260B
1,1-Dichloropropene	Below det lim	ug/Kg	66.0	8/6/2002	KW	SW846 8260B
cis-1,3-Dichloropropene	Below det lim	ug/Kg	66.0	8/6/2002	KW	SW846 8260B

Lab ID No: AD31189 **Collection Date:** 7/30/2002
Client Id: P-3-3 (35-37) **Matrix** Sediment

Parameter	Results	Units	PQL	Start Date	Analyst	Method
trans-1,3-Dichloropropene	Below det lim	ug/Kg	66.0	8/6/2002	KW	SW846 8260B
Ethylbenzene	Below det lim	ug/Kg	66.0	8/6/2002	KW	SW846 8260B
Hexachlorobutadiene	Below det lim	ug/Kg	66.0	8/6/2002	KW	SW846 8260B
2-Hexanone (MBK)	Below det lim	ug/Kg	660	8/6/2002	KW	SW846 8260B
Isopropylbenzene	Below det lim	ug/Kg	66.0	8/6/2002	KW	SW846 8260B
4-Isopropyltoluene	Below det lim	ug/Kg	66.0	8/6/2002	KW	SW846 8260B
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/Kg	66.0	8/6/2002	KW	SW846 8260B
4-Methyl-2-pentanone (MIBK)	Below det lim	ug/Kg	660	8/6/2002	KW	SW846 8260B
Methylene chloride	Below det lim	ug/Kg	260	8/6/2002	KW	SW846 8260B
Naphthalene	Below det lim	ug/Kg	66.0	8/6/2002	KW	SW846 8260B
n-Propylbenzene	Below det lim	ug/Kg	66.0	8/6/2002	KW	SW846 8260B
Styrene	Below det lim	ug/Kg	66.0	8/6/2002	KW	SW846 8260B
1,1,1,2-Tetrachloroethane	Below det lim	ug/Kg	66.0	8/6/2002	KW	SW846 8260B
1,1,2,2-Tetrachloroethane	Below det lim	ug/Kg	66.0	8/6/2002	KW	SW846 8260B
Tetrachloroethene (PCE)	Below det lim	ug/Kg	66.0	8/6/2002	KW	SW846 8260B
Toluene	Below det lim	ug/Kg	66.0	8/6/2002	KW	SW846 8260B
1,2,3-Trichlorobenzene	Below det lim	ug/Kg	66.0	8/6/2002	KW	SW846 8260B
1,2,4-Trichlorobenzene	Below det lim	ug/Kg	66.0	8/6/2002	KW	SW846 8260B
1,1,1-Trichloroethane	Below det lim	ug/Kg	66.0	8/6/2002	KW	SW846 8260B
1,1,2-Trichloroethane	Below det lim	ug/Kg	66.0	8/6/2002	KW	SW846 8260B
Trichloroethene (TCE)	Below det lim	ug/Kg	66.0	8/6/2002	KW	SW846 8260B
Trichlorofluoromethane	Below det lim	ug/Kg	66.0	8/6/2002	KW	SW846 8260B
1,2,3-Trichloropropane	Below det lim	ug/Kg	66.0	8/6/2002	KW	SW846 8260B
1,2,4-Trimethylbenzene	Below det lim	ug/Kg	66.0	8/6/2002	KW	SW846 8260B
1,3,5-Trimethylbenzene	Below det lim	ug/Kg	66.0	8/6/2002	KW	SW846 8260B
Vinyl chloride	Below det lim	ug/Kg	66.0	8/6/2002	KW	SW846 8260B
m,p-Xylenes	Below det lim	ug/Kg	132	8/6/2002	KW	SW846 8260B
o-Xylene	Below det lim	ug/Kg	66.0	8/6/2002	KW	SW846 8260B
4-Bromofluorobenzene (%SR)	99	ug/Kg	0.000	8/6/2002	KW	SW846 8260B
1,4-Difluorobenzene (%SR)	99	ug/Kg	0.000	8/6/2002	KW	SW846 8260B
Chlorobenzene-d5 (%SR)	99	ug/Kg	0.000	8/6/2002	KW	SW846 8260B
TPH Preparation						
Ultrasonic Extraction	Completed			8/7/2002	RT	SW846 3550B
Petroleum Hydrocarbon Analysis						
Extractable TPH						
Total Petroleum Hydrocarbons (C9-C36)	Below det lim	mg/Kg	30	8/8/2002	JD	CT ETPH
Gasoline	Below det lim	mg/Kg	30	8/8/2002	JD	CT ETPH
Fuel Oil #2	Below det lim	mg/Kg	30	8/8/2002	JD	CT ETPH
Fuel Oil #4	Below det lim	mg/Kg	30	8/8/2002	JD	CT ETPH
Fuel Oil #6	Below det lim	mg/Kg	30	8/8/2002	JD	CT ETPH
Motor Oil	Below det lim	mg/Kg	30	8/8/2002	JD	CT ETPH
Aviation Fuel	Below det lim	mg/Kg	30	8/8/2002	JD	CT ETPH

Lab ID No: AD31189
Client Id: P-3-3 (35-37)

Collection Date: 7/30/2002
Matrix Sediment

Parameter	Results	Units	PQL	Start Date	Analyst	Method
Unidentified	Below det lim	mg/Kg	30	8/8/2002	JD	CT ETPH
Other Oil	Below det lim	mg/Kg	30	8/8/2002	JD	CT ETPH
1-Chloro-octadecane (%SR)	70	mg/Kg	0.	8/8/2002	JD	CT ETPH
Metals Preparation						
Mercury Digestion	Completed			8/7/2002	RB	EPA 245.1
Mercury Digestion on Leachate	Completed			8/7/2002	LK	EPA 245.1
Metals Digestion	Completed			8/7/2002	RB	EPA 200.7
Metals Digestion on Leachate	Completed			8/7/2002	LK	EPA 200.7
Metals Analysis						
SPLP RCRA8 Metals						
SPLP Arsenic	Below det lim	mg/L	0.015	8/7/2002	KSE	1312/200.7
SPLP Barium	Below det lim	mg/L	0.043	8/7/2002	KSE	1312/200.7
SPLP Cadmium	Below det lim	mg/L	0.0025	8/7/2002	KSE	1312/200.7
SPLP Chromium	Below det lim	mg/L	0.005	8/7/2002	KSE	1312/200.7
SPLP Lead	Below det lim	mg/L	0.0075	8/7/2002	KSE	1312/200.7
SPLP Selenium	Below det lim	mg/L	0.015	8/7/2002	KSE	1312/200.7
SPLP Silver	Below det lim	mg/L	0.010	8/7/2002	KSE	1312/200.7
SPLP Mercury	Below det lim	mg/L	0.0004	8/8/2002	EPE	1312/245.1
Total RCRA8 Metals						
Total Arsenic	Below det lim	mg/Kg	2.58	8/7/2002	CRE	EPA 200.7
Total Barium	7.39	mg/Kg	0.859	8/7/2002	CRE	EPA 200.7
Total Cadmium	Below det lim	mg/Kg	0.430	8/7/2002	CRE	EPA 200.7
Total Chromium	Below det lim	mg/Kg	0.859	8/7/2002	CRE	EPA 200.7
Total Lead	Below det lim	mg/Kg	1.29	8/7/2002	CRE	EPA 200.7
Total Selenium	Below det lim	mg/Kg	2.58	8/7/2002	CRE	EPA 200.7
Total Silver	Below det lim	mg/Kg	1.72	8/7/2002	CRE	EPA 200.7
Total Mercury	Below det lim	mg/Kg	0.165	8/8/2002	EPE	EPA 245.1
TCLP/SPLP Preparation						
SPLP Extraction for Metals	Completed			8/5/2002	MP	SW846 1312
% Solids	66.1	%		8/7/2002	RT	SM2540 B Mod

Lab ID No: AD31190
Client Id: P-3-3 (12-14)

Collection Date: 7/30/2002
Matrix Sediment

Parameter	Results	Units	PQL	Start Date		Analyst	Method
SVOC Preparation							
Ultrasonic Extraction	Completed			8/7/2002		RT	SW846 3550B
Semivolatile Organic Compounds							
Polychlorinated Biphenyls by GC							
PCB-1016	Below det lim	ug/Kg	120	8/7/2002		TG	SW846 8082
PCB-1221	Below det lim	ug/Kg	120	8/7/2002		TG	SW846 8082
PCB-1232	Below det lim	ug/Kg	120	8/7/2002		TG	SW846 8082
PCB-1242	Below det lim	ug/Kg	120	8/7/2002		TG	SW846 8082
PCB-1248	Below det lim	ug/Kg	120	8/7/2002		TG	SW846 8082
PCB-1254	Below det lim	ug/Kg	120	8/7/2002		TG	SW846 8082
PCB-1260	Below det lim	ug/Kg	120	8/7/2002		TG	SW846 8082
Decachlorobiphenyl (%SR)	80	ug/Kg	0.00	8/7/2002		TG	SW846 8082
General Chemistry							
Flash Point	>200	degree F	200	8/2/2002	11:00	JC	SW846 1010
Ignitability of Solids	Negative	pos/neg		8/2/2002	11:00	JC	SW846 1030
pH	8.86@23.0	pH Units		8/2/2002	11:00	JC	SW846 9045
General Chemistry							
Reactivity - Cyanide/Sulfide							
Reactivity	Negative	mg/Kg		8/6/2002		DMM	SW846 7.3
Reactivity Cyanide	Below det lim	mg/Kg	0.45	8/6/2002		DMM	SW846 7.3
Reactivity Sulfide	Below det lim	mg/Kg	45	8/6/2002		DMM	SW846 7.3
% Solids	49.1	%		8/7/2002		RT	SM2540 B Mod

Lab ID No: AD31191
Client Id: Trip Blank

Collection Date: 7/30/2002
Matrix DI Water

Parameter	Results	Units	PQL	Start Date	Analyst	Method
Volatile Organic Compounds						
VOCs by GC/MS						
Acetone	Below det lim	ug/L	20.0	8/2/2002	CH	SW846 8260B
Acrylonitrile	Below det lim	ug/L	1.0	8/2/2002	CH	SW846 8260B
Benzene	Below det lim	ug/L	1.0	8/2/2002	CH	SW846 8260B
Bromobenzene	Below det lim	ug/L	1.0	8/2/2002	CH	SW846 8260B
Bromochloromethane	Below det lim	ug/L	1.0	8/2/2002	CH	SW846 8260B
Bromodichloromethane	Below det lim	ug/L	1.0	8/2/2002	CH	SW846 8260B
Bromoform	Below det lim	ug/L	1.0	8/2/2002	CH	SW846 8260B
Bromomethane	Below det lim	ug/L	2.0	8/2/2002	CH	SW846 8260B
2-Butanone (MEK)	Below det lim	ug/L	10.0	8/2/2002	CH	SW846 8260B
n-Butylbenzene	Below det lim	ug/L	1.0	8/2/2002	CH	SW846 8260B
sec-Butylbenzene	Below det lim	ug/L	1.0	8/2/2002	CH	SW846 8260B
tert-Butylbenzene	Below det lim	ug/L	1.0	8/2/2002	CH	SW846 8260B
Carbon disulfide	Below det lim	ug/L	5.0	8/2/2002	CH	SW846 8260B
Carbon tetrachloride	Below det lim	ug/L	1.0	8/2/2002	CH	SW846 8260B
Chlorobenzene	Below det lim	ug/L	1.0	8/2/2002	CH	SW846 8260B
Chloroethane	Below det lim	ug/L	2.0	8/2/2002	CH	SW846 8260B
Chloroform	Below det lim	ug/L	1.0	8/2/2002	CH	SW846 8260B
Chloromethane	Below det lim	ug/L	2.0	8/2/2002	CH	SW846 8260B
2-Chlorotoluene	Below det lim	ug/L	1.0	8/2/2002	CH	SW846 8260B
4-Chlorotoluene	Below det lim	ug/L	1.0	8/2/2002	CH	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	Below det lim	ug/L	2.0	8/2/2002	CH	SW846 8260B
Dibromochloromethane	Below det lim	ug/L	1.0	8/2/2002	CH	SW846 8260B
1,2-Dibromoethane (EDB)	Below det lim	ug/L	1.0	8/2/2002	CH	SW846 8260B
Dibromomethane	Below det lim	ug/L	1.0	8/2/2002	CH	SW846 8260B
1,2-Dichlorobenzene	Below det lim	ug/L	1.0	8/2/2002	CH	SW846 8260B
1,3-Dichlorobenzene	Below det lim	ug/L	1.0	8/2/2002	CH	SW846 8260B
1,4-Dichlorobenzene	Below det lim	ug/L	1.0	8/2/2002	CH	SW846 8260B
Dichlorodifluoromethane	Below det lim	ug/L	2.0	8/2/2002	CH	SW846 8260B
1,1-Dichloroethane	Below det lim	ug/L	1.0	8/2/2002	CH	SW846 8260B
1,2-Dichloroethane	Below det lim	ug/L	1.0	8/2/2002	CH	SW846 8260B
1,1-Dichloroethene	Below det lim	ug/L	1.0	8/2/2002	CH	SW846 8260B
cis-1,2-Dichloroethene	Below det lim	ug/L	1.0	8/2/2002	CH	SW846 8260B
trans-1,2-Dichloroethene	Below det lim	ug/L	1.0	8/2/2002	CH	SW846 8260B
1,2-Dichloropropane	Below det lim	ug/L	1.0	8/2/2002	CH	SW846 8260B
1,3-Dichloropropane	Below det lim	ug/L	1.0	8/2/2002	CH	SW846 8260B
2,2-Dichloropropane	Below det lim	ug/L	1.0	8/2/2002	CH	SW846 8260B
1,1-Dichloropropene	Below det lim	ug/L	1.0	8/2/2002	CH	SW846 8260B
cis-1,3-Dichloropropene	Below det lim	ug/L	1.0	8/2/2002	CH	SW846 8260B
trans-1,3-Dichloropropene	Below det lim	ug/L	1.0	8/2/2002	CH	SW846 8260B
Ethylbenzene	Below det lim	ug/L	1.0	8/2/2002	CH	SW846 8260B
Hexachlorobutadiene	Below det lim	ug/L	1.0	8/2/2002	CH	SW846 8260B

Lab ID No: AD31191
Client Id: Trip Blank

Collection Date: 7/30/2002
Matrix DI Water

Parameter	Results	Units	PQL	Start Date	Analyst	Method
2-Hexanone (MBK)	Below det lim	ug/L	10.0	8/2/2002	CH	SW846 8260B
Isopropylbenzene	Below det lim	ug/L	1.0	8/2/2002	CH	SW846 8260B
4-Isopropyltoluene	Below det lim	ug/L	1.0	8/2/2002	CH	SW846 8260B
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/L	1.0	8/2/2002	CH	SW846 8260B
4-Methyl-2-pentanone (MIBK)	Below det lim	ug/L	10.0	8/2/2002	CH	SW846 8260B
Methylene chloride	Below det lim	ug/L	1.0	8/2/2002	CH	SW846 8260B
Naphthalene	Below det lim	ug/L	1.0	8/2/2002	CH	SW846 8260B
n-Propylbenzene	Below det lim	ug/L	1.0	8/2/2002	CH	SW846 8260B
Styrene	Below det lim	ug/L	1.0	8/2/2002	CH	SW846 8260B
1,1,1,2-Tetrachloroethane	Below det lim	ug/L	1.0	8/2/2002	CH	SW846 8260B
1,1,2,2-Tetrachloroethane	Below det lim	ug/L	1.0	8/2/2002	CH	SW846 8260B
Tetrachloroethene (PCE)	Below det lim	ug/L	1.0	8/2/2002	CH	SW846 8260B
Toluene	Below det lim	ug/L	1.0	8/2/2002	CH	SW846 8260B
1,2,3-Trichlorobenzene	Below det lim	ug/L	1.0	8/2/2002	CH	SW846 8260B
1,2,4-Trichlorobenzene	Below det lim	ug/L	1.0	8/2/2002	CH	SW846 8260B
1,1,1-Trichloroethane	Below det lim	ug/L	1.0	8/2/2002	CH	SW846 8260B
1,1,2-Trichloroethane	Below det lim	ug/L	1.0	8/2/2002	CH	SW846 8260B
Trichloroethene (TCE)	Below det lim	ug/L	1.0	8/2/2002	CH	SW846 8260B
Trichlorofluoromethane	Below det lim	ug/L	1.0	8/2/2002	CH	SW846 8260B
1,2,3-Trichloropropane	Below det lim	ug/L	1.0	8/2/2002	CH	SW846 8260B
1,2,4-Trimethylbenzene	Below det lim	ug/L	1.0	8/2/2002	CH	SW846 8260B
1,3,5-Trimethylbenzene	Below det lim	ug/L	1.0	8/2/2002	CH	SW846 8260B
Vinyl chloride	Below det lim	ug/L	1.0	8/2/2002	CH	SW846 8260B
m,p-Xylenes	Below det lim	ug/L	2.0	8/2/2002	CH	SW846 8260B
o-Xylene	Below det lim	ug/L	1.0	8/2/2002	CH	SW846 8260B
4-Bromofluorobenzene (%SR)	94	ug/L		8/2/2002	CH	SW846 8260B
1,4-Difluorobenzene (%SR)	106	ug/L		8/2/2002	CH	SW846 8260B
Chlorobenzene-d5 (%SR)	100	ug/L		8/2/2002	CH	SW846 8260B

Reviewed by:

Quality Service/Quality Assurance Depts.

Validated by:

President/Laboratory Director

8/8/2002

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

Laboratory Report Supplement

Interpretation of Total Petroleum Hydrocarbon Report

Petroleum identification is determined by comparing the GC fingerprint obtained from the sample with a library of GC fingerprints obtained from analyses of various petroleum products. Possible match categories are as follows:

Gasoline – includes regular, unleaded, premium, etc.
Fuel Oil #2 – includes home heating oil, #2 fuel oil, and diesel
Fuel Oil #4 – includes #4 fuel oil
Fuel Oil #6 – includes #6 fuel oil and bunker "C" oil
Motor Oil – includes virgin and waste automobile oil
Ligroin -- includes mineral spirits, petroleum naphtha, vm&p naphtha
Aviation Fuel – includes kerosene, Jet A and JP-4
Other Oil – includes lubricating and cutting oil, and silicon oil

Factors such as microbial degradation, weathering and solubility generally prevent specific identification within a petroleum category. A finding of "unidentified" means that the sample fingerprint was characteristic of a petroleum product, but could not be matched to a fingerprint in our library.

After identification, the amount present in the sample is quantified using a calibration curve prepared from a petroleum product of the same category as the identified petroleum. Unidentified petroleum is quantified using a petroleum calibration that approximates the distribution of compounds in the sample. A * in the results column indicates the primary petroleum fingerprint calibration used to quantify unidentified samples. A ** in the results column indicates the secondary petroleum fingerprint calibration used to quantify unidentified samples. A *** in the results column indicates the tertiary petroleum fingerprint calibration used to quantify unidentified samples.

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

Laboratory Report Supplement
References

SW 846	Test Methods for Evaluating Solid Waste. Third edition, 1998
40 CFR 136	Guidelines Establishing Test Procedures for the Analysis of Pollutants Under the Clean Water Act
40 CFR 141	National Primary Drinking Water Regulations
40 CFR 143	National Secondary Drinking Water Regulations
40 CFR 160	Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), Good Laboratory Practice Standards
APHA-AWWA-WPCF	Standard Methods for the Examination of Water and Wastewater. 19th edition, 1995
ASTM D 3328	Standard Methods for the Comparison of Waterborne Petroleum Oils by Gas Chromatography
EPA 540/G-87/003	Data Quality Objectives for Remediation Response Activities, Development Process
EPA 600/4-79-012	Quality Assurance Handbook for Analytical Quality Control in Water and Wastewater Laboratories
EPA 600/4-79-019	Handbook for Analytical Quality Control in Water and Wastewater Laboratories
EPA 600/4-79-020	Method for the Chemical Analysis of Water and Wastes
EPA 600/4-82-057	Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater
EPA 600/4 85/056	Choosing Cost-Effective QA/QC Programs for Chemical Analysis
EPA 600/4-88/039	Method for the Determination of Organic Compounds in Drinking Water
CT ETPH	Analysis of Extractable Total Petroleum Hydrocarbons (ETPH)
MADEP EPH	Method for the Determination of Extractable Petroleum Hydrocarbons (EPH)
MADEP VPH	Method for the Determination of Volatile Petroleum Hydrocarbons (VPH)
QAMS 004/80	Guidelines and Specifications for Preparing Quality Assurance Program Plans, USEPA Office of Monitoring System and Quality Assurance
GC-D-52-77	Oil Spill Identification System

Acronyms & Abbreviations

AA	Atomic Absorption
ASTM	American Society for Testing and Materials
BOD	Biological Oxygen Demand
°C	degree(s) Celsius
COD	Chemical Oxygen Demand
CMR	Code of Massachusetts Regulations
DEP	Department of Environmental Protection
DI	De-ionized
DO	Dissolved Oxygen
EPA	Environmental Protection Agency
EPH	Extractable Petroleum Hydrocarbons
FID	Flame Ionization Detector
GC	Gas Chromatograph
GC / MS	Gas Chromatograph / Mass Spectrometer
ICP	Inductively Coupled Plasma
Id	Identification
MCL	Maximum Contaminant Level
MDL	Minimum Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
NTU	Nephelometric Turbidity Units
PAHs	Polynuclear Aromatic Hydrocarbons
PCBs	Polychlorinated Biphenyls
PID	Photo Ionization Detector
PQL	Practical Quantitation Limit
R	Recovery (%R: Percent Recovery)
RSD	Relative Standard Deviation
SM	Standard Method
SR	Surrogate Recovery (%SR)
SW	Solid Waste
THM	Trihalomethane(s)
TOC	Total Organic Carbon
TOX	Total Organic Halogen
TPH	Total Petroleum Hydrocarbons
VOC	Volatile Organic Compound
VPH	Volatile Petroleum Hydrocarbons

Definitions

Equipment Blank:	A sample of analyte-free media, which has been used to rinse the sampling equipment. It is collected after completion of decontamination and prior to sampling. This blank is useful in documenting adequate decontamination of sampling equipment.
Field Duplicate:	Independent samples, which are collected as close as possible to the same point in space and time. They are two separate samples taken from the same source, stored in separate containers, and analyzed independently. These duplicates are useful in documenting the precision of the sampling process.
Laboratory Control Sample (LCS):	A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.
Matrix Duplicate:	An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.
Matrix Spike:	An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.
Matrix Spike Duplicates:	Intra-laboratory split of samples spiked with identical concentrations of target analyte(s). The spiking occurs prior to sample preparation and analysis. They are used to document the precision and bias of a method in a given sample matrix.
Method Blank:	An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.
Method Detection Limit (MDL):	The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.
Practical Quantitation Limit (PQL):	The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. The PQL is generally 5 to 10 times the MDL. However, it may be nominally chosen within these guidelines to simplify data reporting. For many analytes the PQL analyte concentration is selected as the lowest non-zero standard in the calibration curve. Sample PQLs are highly matrix-dependent.
Precision:	The agreement among a set of replicate measurements without assumption of knowledge of the true value. Precision is estimated by means of duplicate/replicate analyses. These samples should contain concentrations of analyte above the MDL, and may involve the use of matrix spikes. The Relative Percent Difference (%RPD) is used to estimate the precision between two samples.
Surrogate:	An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.
Trip Blank:	A sample of analyte-free media taken from the laboratory to the sampling site and returned to the laboratory unopened. A trip blank is used to document contamination attributable to shipping and field handling procedures. This type of blank is useful in documenting contamination of volatile organic samples.

CHAIN OF CUSTODY RECORD

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

Page ____ of ____

Special Handling:
- [x] Standard TAT - ~~7 to 10 business days~~ DOT 5 days
- [ ] Rush TAT - Date Needed: ____
- All TATs subject to laboratory approval.
- Min. 24-hour notification needed for rushes.
- All samples are disposed of after 60 days unless otherwise instructed.

Report To: David Williams (CEE)
100 Shield Street
West Hartford, CT 06110

Project Mgr.: David Williams

Invoice To: Michelle Malone
"same"

P.O. No.: 220 80162 RQN: ____

Project No.: A2100160
Site Name: West River Bridge
Location: West/New Haven State: CT
Sampler(s): David Williams

1=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid
7=CH_3OH 8=$NaHSO_4$ 9= none 10= methanol

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW=Surface Water SO=Soil SL=Sludge A=Air
X1= methanol X2= sediment X3= DI water

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Preservative	Containers: # of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	CT ETPH	Analyses: SPLP Extraction for RCRA Metals	VOCs-8260 5035	PAHs-8270	Mass-8260A water	reactivity/cyanide plus reactive sulfide	ignitability/Flash pt	corrosivity	pH	PCBs-8082	Notes:
AC 31153	surface water	7/30/02		G	SW	3/3	2			1			X		X					X	CANCEL RCRA Metals per K.B.
AC 31154	P-3-3 (0-7')				X2	10	1						X	X							Run on wet (sed.)
AC 31155	P-3-3 (5-7')				X2	10/4	1		1		X	✓	✓	X	✓ (VOA)	✓		✓	✓	✓	X	cancel SPLP, PAHs, PCBs reactivity & Reactive (S)
AC 31156	P3-3 (15-17')				X2	10/4	1		1		X	X	X	✓	X	1					added per DW 8/1/02
AC 31157	P-3-3 (25-27')				X2	10/4	1		1		X	X	X		X						
AC 31158	P-3-3 (30-32')				X2	10/4	1		1		X	X	X		X						
AC 31159	P-3-3 (35-37')				X2	10/4	1		1		X	X	X		X						
AC																					
AC 31160	P-3-3 (12-14')				X2	4			1							✓		✓	✓	✓	✓	
AC 31161	trip blanks				X3	2	2						X								

Relinquished by:
CEE Fridge (NMB)

Received by:
CEE Friday

Date:	Time:
7/31/02	14:10
8/1/02	1012
8/1/02	14:30

- [x] Fax results when available to (860) 953-7407
- [ ] E-mail results when available to ____

Condition upon Receipt: ☐ Iced ☐ Ambient ☐ 4 °C

Non-Conforming Matrix Fix / Reject

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

Massachusetts Certification # M-MA138
Rhode Island # 98 Maine # MA138
Florida # E87600 / 87562
New Hampshire # 2538
Connecticut # PH-0777
New York # 11393

RECEIVED
AUG 23 2002
CONSULTING ENVIRONMENTAL ENGINEERS, INC.

Consulting Environmental
100 Shield Street
West Hartford, CT 06110

Attn: David Williams

Thursday, August 15, 2002

Report Status:
- ☑ Final Report
- ☐ Re-issued Report
- ☐ Revised Report

Client Project Number: A2100160 **Location:** West River Bridge - CT

Laboratory ID	Client Sample ID	Analyses Requested
AD32374	Surface Water	Metals Digestion
		Mercury Digestion
		Total RCRA8 Metals
		Total Mercury
AD32375	P3-2 (0-2)	Extractable TPH
		Ultrasonic Extraction
		SPLP Extraction for Metals
		Metals Digestion on Leachate
		Mercury Digestion on Leachate
		SPLP RCRA8 Metals
		SPLP Mercury
		VOCs by GC/MS
		VOC Extraction (solid)
		PAHs by GC/MS
		Ultrasonic Extraction
		Metals Digestion
		Mercury Digestion
		Total RCRA8 Metals
		Total Mercury
		Reactivity - Cyanide/Sulfide
		Ignitability of Solids
		Flash Point
		pH
		Polychlorinated Biphenyls by GC
		% Solids
AD32376	P3-2 (5-7)	Extractable TPH

Client Project Number: A2100160 **Location:** West River Bridge - CT

Laboratory ID	Client Sample ID	Analyses Requested
AD32376	P3-2 (5-7)	Ultrasonic Extraction
		SPLP Extraction for Metals
		Metals Digestion on Leachate
		Mercury Digestion on Leachate
		SPLP RCRA8 Metals
		SPLP Mercury
		VOCs by GC/MS
		VOC Extraction (solid)
		PAHs by GC/MS
		Ultrasonic Extraction
		Metals Digestion
		Mercury Digestion
		Total RCRA8 Metals
		Total Mercury
		Reactivity - Cyanide/Sulfide
		Ignitability of Solids
		Flash Point
		pH
		Polychlorinated Biphenyls by GC
		% Solids
AD32377	P3-2 (10-12)	Extractable TPH
		Ultrasonic Extraction
		VOCs by GC/MS
		VOC Extraction (solid)
		Metals Digestion
		Mercury Digestion
		Total RCRA8 Metals
		Total Mercury
		% Solids
AD32378	P3-2 (25-27)	Extractable TPH
		Ultrasonic Extraction
		SPLP Extraction for Metals
		Metals Digestion on Leachate
		Mercury Digestion on Leachate
		SPLP RCRA8 Metals

11 Almgren Drive • Agawam, Massachusetts 01001 • 1-800-789-9115 • 413-789-9018 • Fax 413-789-4076

Client Project Number: A2100160 **Location:** West River Bridge - CT

Laboratory ID	Client Sample ID	Analyses Requested
AD32378	P3-2 (25-27)	SPLP Mercury VOCs by GC/MS VOC Extraction (solid) Metals Digestion Mercury Digestion Total RCRA8 Metals Total Mercury % Solids
AD32379	P3-2 (30-32)	Extractable TPH Ultrasonic Extraction SPLP Extraction for Metals Metals Digestion on Leachate Mercury Digestion on Leachate SPLP RCRA8 Metals SPLP Mercury VOCs by GC/MS VOC Extraction (solid) Metals Digestion Mercury Digestion Total RCRA8 Metals Total Mercury % Solids
AD32380	P3-2 (35-37)	Extractable TPH Ultrasonic Extraction SPLP Extraction for Metals Metals Digestion on Leachate Mercury Digestion on Leachate SPLP RCRA8 Metals SPLP Mercury VOCs by GC/MS VOC Extraction (solid) Metals Digestion Mercury Digestion Total RCRA8 Metals Total Mercury

11 Almgren Drive • Agawam, Massachusetts 01001 • 1-800-789-9115 • 413-789-9018 • Fax 413-789-4076

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

Client Project Number: A2100160 **Location:** West River Bridge - CT

Laboratory ID	Client Sample ID	Analyses Requested
AD32380	P3-2 (35-37)	% Solids

I attest that all information contained within this report has been reviewed for accuracy and checked against all quality control requirements outlined in each applicable method and meet the requirements of NELAC including any data obtained from a subcontract laboratory. Please note that all solid matrix sample results are calculated on a dry weight basis unless otherwise specified.

This report may not be reproduced, except in full, without written approval from Spectrum Analytical, Inc.

Authorized by:

Hanibal C. Tayeh, Ph.D.
President/Laboratory Director

11 Almgren Drive • Agawam, Massachusetts 01001 • 1-800-789-9115 • 413-789-9018 • Fax 413-789-4076

SPECTRUM ANALYTICAL, INC.

Laboratory Report

RECEIVED
AUG 23 2002
CONSULTING ENVIRONMENTAL ENGINEERS, INC.

Location: West River Bridge - CT
Client: CEE
Lab ID No: AD32374
Client Id: Surface Water

Client Project No: A2000160
Submittal Date: 8/7/2002
Collection Date: 8/5/2002
Matrix Surface Water

Parameter	Results	Units	PQL	Start Date	Analyst	Method
Metals Preparation						
Mercury Digestion	Completed			8/13/2002	LK	EPA 245.1
Metals Digestion	Completed			8/13/2002	LK	EPA 200.7
Metals Analysis						
Total RCRA8 Metals						
Total Arsenic	Below det lim	mg/L	0.004	8/13/2002	KSC	EPA 200.7
Total Barium	0.0196	mg/L	0.0025	8/13/2002	KSC	EPA 200.7
Total Cadmium	Below det lim	mg/L	0.00125	8/13/2002	KSC	EPA 200.7
Total Chromium	Below det lim	mg/L	0.0025	8/13/2002	KSC	EPA 200.7
Total Lead	Below det lim	mg/L	0.00375	8/13/2002	KSC	EPA 200.7
Total Selenium	Below det lim	mg/L	0.0075	8/13/2002	KSC	EPA 200.7
Total Silver	Below det lim	mg/L	0.005	8/13/2002	KSC	EPA 200.7
Total Mercury	Below det lim	mg/L	0.0004	8/14/2002	EPC	EPA 245.1

Lab ID No: AD32375
Client Id: P3-2 (0-2)

Collection Date: 8/5/2002
Matrix Sediment

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VOC Preparation						
VOC Extraction (solid)	Field ext			8/5/2002		SW846 5035
Volatile Organic Compounds						
VOCs by GC/MS						
Acetone	Below det lim	ug/Kg	5520	8/10/2002	TR	SW846 8260B
Acrylonitrile	Below det lim	ug/Kg	276	8/10/2002	TR	SW846 8260B
Benzene	Below det lim	ug/Kg	276	8/10/2002	TR	SW846 8260B
Bromobenzene	Below det lim	ug/Kg	276	8/10/2002	TR	SW846 8260B
Bromochloromethane	Below det lim	ug/Kg	276	8/10/2002	TR	SW846 8260B
Bromodichloromethane	Below det lim	ug/Kg	276	8/10/2002	TR	SW846 8260B
Bromoform	Below det lim	ug/Kg	276	8/10/2002	TR	SW846 8260B
Bromomethane	Below det lim	ug/Kg	552	8/10/2002	TR	SW846 8260B
2-Butanone (MEK)	Below det lim	ug/Kg	2760	8/10/2002	TR	SW846 8260B
n-Butylbenzene	Below det lim	ug/Kg	276	8/10/2002	TR	SW846 8260B
sec-Butylbenzene	Below det lim	ug/Kg	276	8/10/2002	TR	SW846 8260B
tert-Butylbenzene	Below det lim	ug/Kg	276	8/10/2002	TR	SW846 8260B
Carbon disulfide	Below det lim	ug/Kg	1380	8/10/2002	TR	SW846 8260B
Carbon tetrachloride	Below det lim	ug/Kg	276	8/10/2002	TR	SW846 8260B
Chlorobenzene	Below det lim	ug/Kg	276	8/10/2002	TR	SW846 8260B
Chloroethane	Below det lim	ug/Kg	552	8/10/2002	TR	SW846 8260B
Chloroform	Below det lim	ug/Kg	276	8/10/2002	TR	SW846 8260B
Chloromethane	Below det lim	ug/Kg	552	8/10/2002	TR	SW846 8260B
2-Chlorotoluene	Below det lim	ug/Kg	276	8/10/2002	TR	SW846 8260B
4-Chlorotoluene	Below det lim	ug/Kg	276	8/10/2002	TR	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	Below det lim	ug/Kg	552	8/10/2002	TR	SW846 8260B
Dibromochloromethane	Below det lim	ug/Kg	276	8/10/2002	TR	SW846 8260B
1,2-Dibromoethane (EDB)	Below det lim	ug/Kg	276	8/10/2002	TR	SW846 8260B
Dibromomethane	Below det lim	ug/Kg	276	8/10/2002	TR	SW846 8260B
1,2-Dichlorobenzene	Below det lim	ug/Kg	276	8/10/2002	TR	SW846 8260B
1,3-Dichlorobenzene	Below det lim	ug/Kg	276	8/10/2002	TR	SW846 8260B
1,4-Dichlorobenzene	Below det lim	ug/Kg	276	8/10/2002	TR	SW846 8260B
Dichlorodifluoromethane	Below det lim	ug/Kg	552	8/10/2002	TR	SW846 8260B
1,1-Dichloroethane	Below det lim	ug/Kg	276	8/10/2002	TR	SW846 8260B
1,2-Dichloroethane	Below det lim	ug/Kg	276	8/10/2002	TR	SW846 8260B
1,1-Dichloroethene	Below det lim	ug/Kg	276	8/10/2002	TR	SW846 8260B
cis-1,2-Dichloroethene	Below det lim	ug/Kg	276	8/10/2002	TR	SW846 8260B
trans-1,2-Dichloroethene	Below det lim	ug/Kg	276	8/10/2002	TR	SW846 8260B
1,2-Dichloropropane	Below det lim	ug/Kg	276	8/10/2002	TR	SW846 8260B
1,3-Dichloropropane	Below det lim	ug/Kg	276	8/10/2002	TR	SW846 8260B
2,2-Dichloropropane	Below det lim	ug/Kg	276	8/10/2002	TR	SW846 8260B
1,1-Dichloropropene	Below det lim	ug/Kg	276	8/10/2002	TR	SW846 8260B

Lab ID No: AD32375 **Collection Date:** 8/5/2002
Client Id: P3-2 (0-2) **Matrix** Sediment

Parameter	Results	Units	PQL	Start Date	Analyst	Method
cis-1,3-Dichloropropene	Below det lim	ug/Kg	276	8/10/2002	TR	SW846 8260B
trans-1,3-Dichloropropene	Below det lim	ug/Kg	276	8/10/2002	TR	SW846 8260B
Ethylbenzene	Below det lim	ug/Kg	276	8/10/2002	TR	SW846 8260B
Hexachlorobutadiene	Below det lim	ug/Kg	276	8/10/2002	TR	SW846 8260B
2-Hexanone (MBK)	Below det lim	ug/Kg	2760	8/10/2002	TR	SW846 8260B
Isopropylbenzene	Below det lim	ug/Kg	276	8/10/2002	TR	SW846 8260B
4-Isopropyltoluene	Below det lim	ug/Kg	276	8/10/2002	TR	SW846 8260B
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/Kg	276	8/10/2002	TR	SW846 8260B
4-Methyl-2-pentanone (MIBK)	Below det lim	ug/Kg	2760	8/10/2002	TR	SW846 8260B
Methylene chloride	Below det lim	ug/Kg	970	8/10/2002	TR	SW846 8260B
Naphthalene	Below det lim	ug/Kg	276	8/10/2002	TR	SW846 8260B
n-Propylbenzene	Below det lim	ug/Kg	276	8/10/2002	TR	SW846 8260B
Styrene	Below det lim	ug/Kg	276	8/10/2002	TR	SW846 8260B
1,1,1,2-Tetrachloroethane	Below det lim	ug/Kg	276	8/10/2002	TR	SW846 8260B
1,1,2,2-Tetrachloroethane	Below det lim	ug/Kg	276	8/10/2002	TR	SW846 8260B
Tetrachloroethene (PCE)	Below det lim	ug/Kg	276	8/10/2002	TR	SW846 8260B
Toluene	Below det lim	ug/Kg	276	8/10/2002	TR	SW846 8260B
1,2,3-Trichlorobenzene	Below det lim	ug/Kg	276	8/10/2002	TR	SW846 8260B
1,2,4-Trichlorobenzene	Below det lim	ug/Kg	276	8/10/2002	TR	SW846 8260B
1,1,1-Trichloroethane	Below det lim	ug/Kg	276	8/10/2002	TR	SW846 8260B
1,1,2-Trichloroethane	Below det lim	ug/Kg	276	8/10/2002	TR	SW846 8260B
Trichloroethene (TCE)	Below det lim	ug/Kg	276	8/10/2002	TR	SW846 8260B
Trichlorofluoromethane	Below det lim	ug/Kg	276	8/10/2002	TR	SW846 8260B
1,2,3-Trichloropropane	Below det lim	ug/Kg	276	8/10/2002	TR	SW846 8260B
1,2,4-Trimethylbenzene	Below det lim	ug/Kg	276	8/10/2002	TR	SW846 8260B
1,3,5-Trimethylbenzene	Below det lim	ug/Kg	276	8/10/2002	TR	SW846 8260B
Vinyl chloride	Below det lim	ug/Kg	276	8/10/2002	TR	SW846 8260B
m,p-Xylenes	Below det lim	ug/Kg	552	8/10/2002	TR	SW846 8260B
o-Xylene	Below det lim	ug/Kg	276	8/10/2002	TR	SW846 8260B
4-Bromofluorobenzene (%SR)	89	ug/Kg	0.000	8/10/2002	TR	SW846 8260B
1,4-Difluorobenzene (%SR)	100	ug/Kg	0.000	8/10/2002	TR	SW846 8260B
Chlorobenzene-d5 (%SR)	89	ug/Kg	0.000	8/10/2002	TR	SW846 8260B
TPH Preparation						
Ultrasonic Extraction	Completed			8/13/2002	RT	SW846 3550B
Petroleum Hydrocarbon Analysis						
Extractable TPH						
Total Petroleum Hydrocarbons (C9-C36)	Below det lim	mg/Kg	20	8/13/2002	MB	CT ETPH
Gasoline	Below det lim	mg/Kg	20	8/13/2002	MB	CT ETPH
Fuel Oil #2	Below det lim	mg/Kg	20	8/13/2002	MB	CT ETPH
Fuel Oil #4	Below det lim	mg/Kg	20	8/13/2002	MB	CT ETPH
Fuel Oil #6	Below det lim	mg/Kg	20	8/13/2002	MB	CT ETPH

Lab ID No: AD32375 **Collection Date:** 8/5/2002
Client Id: P3-2 (0-2) **Matrix** Sediment

Parameter	Results	Units	PQL	Start Date	Analyst	Method
Motor Oil	Below det lim	mg/Kg	20	8/13/2002	MB	CT ETPH
Aviation Fuel	Below det lim	mg/Kg	20	8/13/2002	MB	CT ETPH
Unidentified	Below det lim	mg/Kg	20	8/13/2002	MB	CT ETPH
Other Oil	Below det lim	mg/Kg	20	8/13/2002	MB	CT ETPH
1-Chloro-octadecane (%SR)	74	mg/Kg	0.	8/13/2002	MB	CT ETPH
SVOC Preparation						
Ultrasonic Extraction	Completed			8/13/2002	RT	SW846 3550B
Semivolatile Organic Compounds						
PAHs by GC/MS						
Naphthalene	Below det lim	ug/Kg	200	8/14/2002	MSL	SW846 8270C
2-Methylnaphthalene	Below det lim	ug/Kg	200	8/14/2002	MSL	SW846 8270C
1-Methylnaphthalene	Below det lim	ug/Kg	200	8/14/2002	MSL	SW846 8270C
Acenaphthylene	Below det lim	ug/Kg	200	8/14/2002	MSL	SW846 8270C
Acenaphthene	Below det lim	ug/Kg	200	8/14/2002	MSL	SW846 8270C
Fluorene	Below det lim	ug/Kg	200	8/14/2002	MSL	SW846 8270C
Phenanthrene	Below det lim	ug/Kg	200	8/14/2002	MSL	SW846 8270C
Anthracene	Below det lim	ug/Kg	200	8/14/2002	MSL	SW846 8270C
Fluoranthene	Below det lim	ug/Kg	200	8/14/2002	MSL	SW846 8270C
Pyrene	Below det lim	ug/Kg	200	8/14/2002	MSL	SW846 8270C
Benzo (a) anthracene	Below det lim	ug/Kg	200	8/14/2002	MSL	SW846 8270C
Chrysene	Below det lim	ug/Kg	200	8/14/2002	MSL	SW846 8270C
Benzo (b) fluoranthene	Below det lim	ug/Kg	200	8/14/2002	MSL	SW846 8270C
Benzo (k) fluoranthene	Below det lim	ug/Kg	200	8/14/2002	MSL	SW846 8270C
Benzo (a) pyrene	Below det lim	ug/Kg	200	8/14/2002	MSL	SW846 8270C
Indeno (1,2,3-cd) pyrene	Below det lim	ug/Kg	200	8/14/2002	MSL	SW846 8270C
Dibenzo (a,h) anthracene	Below det lim	ug/Kg	200	8/14/2002	MSL	SW846 8270C
Benzo (g,h,i) perylene	Below det lim	ug/Kg	200	8/14/2002	MSL	SW846 8270C
2-Fluorobiphenyl (%SR)	60	ug/Kg	0.000	8/14/2002	MSL	SW846 8270C
Terphenyl-d14 (%SR)	65	ug/Kg	0.000	8/14/2002	MSL	SW846 8270C
Semivolatile Organic Compounds						
Polychlorinated Biphenyls by GC						
PCB-1016	Below det lim	ug/Kg	77	8/13/2002	TG	SW846 8082
PCB-1221	Below det lim	ug/Kg	77	8/13/2002	TG	SW846 8082
PCB-1232	Below det lim	ug/Kg	77	8/13/2002	TG	SW846 8082
PCB-1242	Below det lim	ug/Kg	77	8/13/2002	TG	SW846 8082
PCB-1248	Below det lim	ug/Kg	77	8/13/2002	TG	SW846 8082
PCB-1254	Below det lim	ug/Kg	77	8/13/2002	TG	SW846 8082
PCB-1260	Below det lim	ug/Kg	77	8/13/2002	TG	SW846 8082
Decachlorobiphenyl (%SR)	120	ug/Kg	0.00	8/13/2002	TG	SW846 8082
Metals Preparation						

Lab ID No: AD32375
Client Id: P3-2 (0-2)

Collection Date: 8/5/2002
Matrix Sediment

Parameter	Results	Units	PQL	Start Date		Analyst	Method
Mercury Digestion	Completed			8/13/2002		RB	EPA 245.1
Mercury Digestion on Leachate	Completed			8/13/2002		LFR	EPA 245.1
Metals Digestion	Completed			8/13/2002		RB	EPA 200.7
Metals Digestion on Leachate	Completed			8/13/2002		LFR	EPA 200.7
Metals Analysis							
SPLP RCRA8 Metals							
SPLP Arsenic	Below det lim	mg/L	0.015	8/14/2002		CRC	1312/200.7
SPLP Barium	Below det lim	mg/L	0.0562	8/14/2002		CRC	1312/200.7
SPLP Cadmium	Below det lim	mg/L	0.0025	8/14/2002		CRC	1312/200.7
SPLP Chromium	Below det lim	mg/L	0.005	8/14/2002		CRC	1312/200.7
SPLP Lead	Below det lim	mg/L	0.0075	8/14/2002		CRC	1312/200.7
SPLP Selenium	Below det lim	mg/L	0.015	8/14/2002		CRC	1312/200.7
SPLP Silver	Below det lim	mg/L	0.010	8/14/2002		CRC	1312/200.7
SPLP Mercury	Below det lim	mg/L	0.0004	8/14/2002		EPR	1312/245.1
Total RCRA8 Metals							
Total Arsenic	Below det lim	mg/Kg	5.61	8/13/2002		CRC	EPA 200.7
Total Barium	31.3	mg/Kg	1.87	8/13/2002		CRC	EPA 200.7
Total Cadmium	Below det lim	mg/Kg	0.934	8/13/2002		CRC	EPA 200.7
Total Chromium	28.4	mg/Kg	1.87	8/13/2002		CRC	EPA 200.7
Total Lead	20.8	mg/Kg	2.80	8/13/2002		CRC	EPA 200.7
Total Selenium	Below det lim	mg/Kg	10.4	8/13/2002		CRC	EPA 200.7
Total Silver	Below det lim	mg/Kg	3.74	8/13/2002		CRC	EPA 200.7
Total Mercury	Below det lim	mg/Kg	0.310	8/14/2002		EPR	EPA 245.1
General Chemistry							
Flash Point	>200	degree F	200	8/13/2002	7:00	JC	SW846 1010
Ignitability of Solids	Negative	pos/neg		8/13/2002	7:00	JC	SW846 1030
pH	7.53@21.3	pH Units		8/13/2002	7:00	JC	SW846 9045
TCLP/SPLP Preparation							
SPLP Extraction for Metals	Completed			8/9/2002		MP	SW846 1312
General Chemistry							
Reactivity - Cyanide/Sulfide							
Reactivity	Negative	mg/Kg		8/12/2002		DMM	SW846 7.3
Reactivity Cyanide	Below det lim	mg/Kg	0.48	8/12/2002		DMM	SW846 7.3
Reactivity Sulfide	Below det lim	mg/Kg	48	8/12/2002		DMM	SW846 7.3
% Solids	50.8	%		8/13/2002		RT	SM2540 B Mod

Lab ID No: AD32376
Client Id: P3-2 (5-7)

Collection Date: 8/5/2002
Matrix Sediment

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VOC Preparation						
VOC Extraction (solid)	Field ext			8/5/2002		SW846 5035
Volatile Organic Compounds						
VOCs by GC/MS						
Acetone	Below det lim	ug/Kg	6040	8/10/2002	TR	SW846 8260B
Acrylonitrile	Below det lim	ug/Kg	302	8/10/2002	TR	SW846 8260B
Benzene	Below det lim	ug/Kg	302	8/10/2002	TR	SW846 8260B
Bromobenzene	Below det lim	ug/Kg	302	8/10/2002	TR	SW846 8260B
Bromochloromethane	Below det lim	ug/Kg	302	8/10/2002	TR	SW846 8260B
Bromodichloromethane	Below det lim	ug/Kg	302	8/10/2002	TR	SW846 8260B
Bromoform	Below det lim	ug/Kg	302	8/10/2002	TR	SW846 8260B
Bromomethane	Below det lim	ug/Kg	604	8/10/2002	TR	SW846 8260B
2-Butanone (MEK)	Below det lim	ug/Kg	3020	8/10/2002	TR	SW846 8260B
n-Butylbenzene	Below det lim	ug/Kg	302	8/10/2002	TR	SW846 8260B
sec-Butylbenzene	Below det lim	ug/Kg	302	8/10/2002	TR	SW846 8260B
tert-Butylbenzene	Below det lim	ug/Kg	302	8/10/2002	TR	SW846 8260B
Carbon disulfide	Below det lim	ug/Kg	1510	8/10/2002	TR	SW846 8260B
Carbon tetrachloride	Below det lim	ug/Kg	302	8/10/2002	TR	SW846 8260B
Chlorobenzene	Below det lim	ug/Kg	302	8/10/2002	TR	SW846 8260B
Chloroethane	Below det lim	ug/Kg	604	8/10/2002	TR	SW846 8260B
Chloroform	Below det lim	ug/Kg	302	8/10/2002	TR	SW846 8260B
Chloromethane	Below det lim	ug/Kg	604	8/10/2002	TR	SW846 8260B
2-Chlorotoluene	Below det lim	ug/Kg	302	8/10/2002	TR	SW846 8260B
4-Chlorotoluene	Below det lim	ug/Kg	302	8/10/2002	TR	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	Below det lim	ug/Kg	604	8/10/2002	TR	SW846 8260B
Dibromochloromethane	Below det lim	ug/Kg	302	8/10/2002	TR	SW846 8260B
1,2-Dibromoethane (EDB)	Below det lim	ug/Kg	302	8/10/2002	TR	SW846 8260B
Dibromomethane	Below det lim	ug/Kg	302	8/10/2002	TR	SW846 8260B
1,2-Dichlorobenzene	Below det lim	ug/Kg	302	8/10/2002	TR	SW846 8260B
1,3-Dichlorobenzene	Below det lim	ug/Kg	302	8/10/2002	TR	SW846 8260B
1,4-Dichlorobenzene	Below det lim	ug/Kg	302	8/10/2002	TR	SW846 8260B
Dichlorodifluoromethane	Below det lim	ug/Kg	604	8/10/2002	TR	SW846 8260B
1,1-Dichloroethane	Below det lim	ug/Kg	302	8/10/2002	TR	SW846 8260B
1,2-Dichloroethane	Below det lim	ug/Kg	302	8/10/2002	TR	SW846 8260B
1,1-Dichloroethene	Below det lim	ug/Kg	302	8/10/2002	TR	SW846 8260B
cis-1,2-Dichloroethene	Below det lim	ug/Kg	302	8/10/2002	TR	SW846 8260B
trans-1,2-Dichloroethene	Below det lim	ug/Kg	302	8/10/2002	TR	SW846 8260B
1,2-Dichloropropane	Below det lim	ug/Kg	302	8/10/2002	TR	SW846 8260B
1,3-Dichloropropane	Below det lim	ug/Kg	302	8/10/2002	TR	SW846 8260B
2,2-Dichloropropane	Below det lim	ug/Kg	302	8/10/2002	TR	SW846 8260B
1,1-Dichloropropene	Below det lim	ug/Kg	302	8/10/2002	TR	SW846 8260B

Lab ID No: AD32376
Client Id: P3-2 (5-7)

Collection Date: 8/5/2002
Matrix Sediment

Parameter	Results	Units	PQL	Start Date	Analyst	Method
cis-1,3-Dichloropropene	Below det lim	ug/Kg	302	8/10/2002	TR	SW846 8260B
trans-1,3-Dichloropropene	Below det lim	ug/Kg	302	8/10/2002	TR	SW846 8260B
Ethylbenzene	Below det lim	ug/Kg	302	8/10/2002	TR	SW846 8260B
Hexachlorobutadiene	Below det lim	ug/Kg	302	8/10/2002	TR	SW846 8260B
2-Hexanone (MBK)	Below det lim	ug/Kg	3020	8/10/2002	TR	SW846 8260B
Isopropylbenzene	Below det lim	ug/Kg	302	8/10/2002	TR	SW846 8260B
4-Isopropyltoluene	Below det lim	ug/Kg	302	8/10/2002	TR	SW846 8260B
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/Kg	302	8/10/2002	TR	SW846 8260B
4-Methyl-2-pentanone (MIBK)	Below det lim	ug/Kg	3020	8/10/2002	TR	SW846 8260B
Methylene chloride	Below det lim	ug/Kg	1200	8/10/2002	TR	SW846 8260B
Naphthalene	Below det lim	ug/Kg	302	8/10/2002	TR	SW846 8260B
n-Propylbenzene	Below det lim	ug/Kg	302	8/10/2002	TR	SW846 8260B
Styrene	Below det lim	ug/Kg	302	8/10/2002	TR	SW846 8260B
1,1,1,2-Tetrachloroethane	Below det lim	ug/Kg	302	8/10/2002	TR	SW846 8260B
1,1,2,2-Tetrachloroethane	Below det lim	ug/Kg	302	8/10/2002	TR	SW846 8260B
Tetrachloroethene (PCE)	Below det lim	ug/Kg	302	8/10/2002	TR	SW846 8260B
Toluene	Below det lim	ug/Kg	302	8/10/2002	TR	SW846 8260B
1,2,3-Trichlorobenzene	Below det lim	ug/Kg	302	8/10/2002	TR	SW846 8260B
1,2,4-Trichlorobenzene	Below det lim	ug/Kg	302	8/10/2002	TR	SW846 8260B
1,1,1-Trichloroethane	Below det lim	ug/Kg	302	8/10/2002	TR	SW846 8260B
1,1,2-Trichloroethane	Below det lim	ug/Kg	302	8/10/2002	TR	SW846 8260B
Trichloroethene (TCE)	Below det lim	ug/Kg	302	8/10/2002	TR	SW846 8260B
Trichlorofluoromethane	Below det lim	ug/Kg	302	8/10/2002	TR	SW846 8260B
1,2,3-Trichloropropane	Below det lim	ug/Kg	302	8/10/2002	TR	SW846 8260B
1,2,4-Trimethylbenzene	Below det lim	ug/Kg	302	8/10/2002	TR	SW846 8260B
1,3,5-Trimethylbenzene	Below det lim	ug/Kg	302	8/10/2002	TR	SW846 8260B
Vinyl chloride	Below det lim	ug/Kg	302	8/10/2002	TR	SW846 8260B
m,p-Xylenes	Below det lim	ug/Kg	604	8/10/2002	TR	SW846 8260B
o-Xylene	Below det lim	ug/Kg	302	8/10/2002	TR	SW846 8260B
4-Bromofluorobenzene (%SR)	89	ug/Kg	0.000	8/10/2002	TR	SW846 8260B
1,4-Difluorobenzene (%SR)	101	ug/Kg	0.000	8/10/2002	TR	SW846 8260B
Chlorobenzene-d5 (%SR)	89	ug/Kg	0.000	8/10/2002	TR	SW846 8260B
TPH Preparation						
Ultrasonic Extraction	Completed			8/13/2002	RT	SW846 3550B
Petroleum Hydrocarbon Analysis						
Extractable TPH						
Total Petroleum Hydrocarbons (C9-C36)	Below det lim	mg/Kg	20	8/13/2002	MB	CT ETPH
Gasoline	Below det lim	mg/Kg	20	8/13/2002	MB	CT ETPH
Fuel Oil #2	Below det lim	mg/Kg	20	8/13/2002	MB	CT ETPH
Fuel Oil #4	Below det lim	mg/Kg	20	8/13/2002	MB	CT ETPH
Fuel Oil #6	Below det lim	mg/Kg	20	8/13/2002	MB	CT ETPH

Lab ID No: AD32376 **Collection Date:** 8/5/2002
Client Id: P3-2 (5-7) **Matrix** Sediment

Parameter	Results	Units	PQL	Start Date	Analyst	Method
Motor Oil	Below det lim	mg/Kg	20	8/13/2002	MB	CT ETPH
Aviation Fuel	Below det lim	mg/Kg	20	8/13/2002	MB	CT ETPH
Unidentified	Below det lim	mg/Kg	20	8/13/2002	MB	CT ETPH
Other Oil	Below det lim	mg/Kg	20	8/13/2002	MB	CT ETPH
1-Chloro-octadecane (%SR)	64	mg/Kg	0.	8/13/2002	MB	CT ETPH
SVOC Preparation						
Ultrasonic Extraction	Completed			8/13/2002	RT	SW846 3550B
Semivolatile Organic Compounds						
PAHs by GC/MS						
Naphthalene	Below det lim	ug/Kg	197	8/14/2002	MSL	SW846 8270C
2-Methylnaphthalene	Below det lim	ug/Kg	197	8/14/2002	MSL	SW846 8270C
1-Methylnaphthalene	Below det lim	ug/Kg	197	8/14/2002	MSL	SW846 8270C
Acenaphthylene	Below det lim	ug/Kg	197	8/14/2002	MSL	SW846 8270C
Acenaphthene	Below det lim	ug/Kg	197	8/14/2002	MSL	SW846 8270C
Fluorene	Below det lim	ug/Kg	197	8/14/2002	MSL	SW846 8270C
Phenanthrene	Below det lim	ug/Kg	197	8/14/2002	MSL	SW846 8270C
Anthracene	Below det lim	ug/Kg	197	8/14/2002	MSL	SW846 8270C
Fluoranthene	Below det lim	ug/Kg	197	8/14/2002	MSL	SW846 8270C
Pyrene	Below det lim	ug/Kg	197	8/14/2002	MSL	SW846 8270C
Benzo (a) anthracene	Below det lim	ug/Kg	197	8/14/2002	MSL	SW846 8270C
Chrysene	Below det lim	ug/Kg	197	8/14/2002	MSL	SW846 8270C
Benzo (b) fluoranthene	Below det lim	ug/Kg	197	8/14/2002	MSL	SW846 8270C
Benzo (k) fluoranthene	Below det lim	ug/Kg	197	8/14/2002	MSL	SW846 8270C
Benzo (a) pyrene	Below det lim	ug/Kg	197	8/14/2002	MSL	SW846 8270C
Indeno (1,2,3-cd) pyrene	Below det lim	ug/Kg	197	8/14/2002	MSL	SW846 8270C
Dibenzo (a,h) anthracene	Below det lim	ug/Kg	197	8/14/2002	MSL	SW846 8270C
Benzo (g,h,i) perylene	Below det lim	ug/Kg	197	8/14/2002	MSL	SW846 8270C
2-Fluorobiphenyl (%SR)	59	ug/Kg	0.000	8/14/2002	MSL	SW846 8270C
Terphenyl-d14 (%SR)	63	ug/Kg	0.000	8/14/2002	MSL	SW846 8270C
Semivolatile Organic Compounds						
Polychlorinated Biphenyls by GC						
PCB-1016	Below det lim	ug/Kg	73	8/13/2002	TG	SW846 8082
PCB-1221	Below det lim	ug/Kg	73	8/13/2002	TG	SW846 8082
PCB-1232	Below det lim	ug/Kg	73	8/13/2002	TG	SW846 8082
PCB-1242	Below det lim	ug/Kg	73	8/13/2002	TG	SW846 8082
PCB-1248	Below det lim	ug/Kg	73	8/13/2002	TG	SW846 8082
PCB-1254	Below det lim	ug/Kg	73	8/13/2002	TG	SW846 8082
PCB-1260	Below det lim	ug/Kg	73	8/13/2002	TG	SW846 8082
Decachlorobiphenyl (%SR)	115	ug/Kg	0.00	8/13/2002	TG	SW846 8082
Metals Preparation						

Lab ID No: AD32376
Client Id: P3-2 (5-7)

Collection Date: 8/5/2002
Matrix Sediment

Parameter	Results	Units	PQL	Start Date		Analyst	Method
Mercury Digestion	Completed			8/13/2002		RB	EPA 245.1
Mercury Digestion on Leachate	Completed			8/13/2002		LFR	EPA 245.1
Metals Digestion	Completed			8/13/2002		RB	EPA 200.7
Metals Digestion on Leachate	Completed			8/13/2002		LFR	EPA 200.7
Metals Analysis							
SPLP RCRA8 Metals							
SPLP Arsenic	Below det lim	mg/L	0.015	8/14/2002		CRC	1312/200.7
SPLP Barium	0.119	mg/L	0.005	8/14/2002		CRC	1312/200.7
SPLP Cadmium	Below det lim	mg/L	0.0025	8/14/2002		CRC	1312/200.7
SPLP Chromium	0.018	mg/L	0.005	8/14/2002		CRC	1312/200.7
SPLP Lead	Below det lim	mg/L	0.0075	8/14/2002		CRC	1312/200.7
SPLP Selenium	Below det lim	mg/L	0.015	8/14/2002		CRC	1312/200.7
SPLP Silver	Below det lim	mg/L	0.010	8/14/2002		CRC	1312/200.7
SPLP Mercury	Below det lim	mg/L	0.0004	8/14/2002		EPR	1312/245.1
Total RCRA8 Metals							
Total Arsenic	Below det lim	mg/Kg	5.24	8/13/2002		CRC	EPA 200.7
Total Barium	31.0	mg/Kg	1.75	8/13/2002		CRC	EPA 200.7
Total Cadmium	Below det lim	mg/Kg	0.874	8/13/2002		CRC	EPA 200.7
Total Chromium	29.1	mg/Kg	1.75	8/13/2002		CRC	EPA 200.7
Total Lead	13.1	mg/Kg	2.62	8/13/2002		CRC	EPA 200.7
Total Selenium	Below det lim	mg/Kg	10.3	8/13/2002		CRC	EPA 200.7
Total Silver	Below det lim	mg/Kg	3.50	8/13/2002		CRC	EPA 200.7
Total Mercury	Below det lim	mg/Kg	0.325	8/14/2002		EPR	EPA 245.1
General Chemistry							
Flash Point	>200	degree F	200	8/13/2002	7:00	JC	SW846 1010
Ignitability of Solids	Negative	pos/neg		8/13/2002	7:00	JC	SW846 1030
pH	8.03@20.9	pH Units		8/13/2002	7:00	JC	SW846 9045
TCLP/SPLP Preparation							
SPLP Extraction for Metals	Completed			8/9/2002		MP	SW846 1312
General Chemistry							
Reactivity - Cyanide/Sulfide							
Reactivity	Negative	mg/Kg		8/12/2002		DMM	SW846 7.3
Reactivity Cyanide	Below det lim	mg/Kg	0.48	8/12/2002		DMM	SW846 7.3
Reactivity Sulfide	Below det lim	mg/Kg	48	8/12/2002		DMM	SW846 7.3
% Solids	51	%		8/13/2002		RT	SM2540 B Mod

Lab ID No: AD32377 **Collection Date:** 8/5/2002
Client Id: P3-2 (10-12) **Matrix** Sediment

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VOC Preparation						
VOC Extraction (solid)	Field ext			8/5/2002		SW846 5035
Volatile Organic Compounds						
VOCs by GC/MS						
Acetone	Below det lim	ug/Kg	4000	8/10/2002	TR	SW846 8260B
Acrylonitrile	Below det lim	ug/Kg	200	8/10/2002	TR	SW846 8260B
Benzene	Below det lim	ug/Kg	200	8/10/2002	TR	SW846 8260B
Bromobenzene	Below det lim	ug/Kg	200	8/10/2002	TR	SW846 8260B
Bromochloromethane	Below det lim	ug/Kg	200	8/10/2002	TR	SW846 8260B
Bromodichloromethane	Below det lim	ug/Kg	200	8/10/2002	TR	SW846 8260B
Bromoform	Below det lim	ug/Kg	200	8/10/2002	TR	SW846 8260B
Bromomethane	Below det lim	ug/Kg	400	8/10/2002	TR	SW846 8260B
2-Butanone (MEK)	Below det lim	ug/Kg	2000	8/10/2002	TR	SW846 8260B
n-Butylbenzene	Below det lim	ug/Kg	200	8/10/2002	TR	SW846 8260B
sec-Butylbenzene	Below det lim	ug/Kg	200	8/10/2002	TR	SW846 8260B
tert-Butylbenzene	Below det lim	ug/Kg	200	8/10/2002	TR	SW846 8260B
Carbon disulfide	Below det lim	ug/Kg	1000	8/10/2002	TR	SW846 8260B
Carbon tetrachloride	Below det lim	ug/Kg	200	8/10/2002	TR	SW846 8260B
Chlorobenzene	Below det lim	ug/Kg	200	8/10/2002	TR	SW846 8260B
Chloroethane	Below det lim	ug/Kg	400	8/10/2002	TR	SW846 8260B
Chloroform	Below det lim	ug/Kg	200	8/10/2002	TR	SW846 8260B
Chloromethane	Below det lim	ug/Kg	400	8/10/2002	TR	SW846 8260B
2-Chlorotoluene	Below det lim	ug/Kg	200	8/10/2002	TR	SW846 8260B
4-Chlorotoluene	Below det lim	ug/Kg	200	8/10/2002	TR	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	Below det lim	ug/Kg	400	8/10/2002	TR	SW846 8260B
Dibromochloromethane	Below det lim	ug/Kg	200	8/10/2002	TR	SW846 8260B
1,2-Dibromoethane (EDB)	Below det lim	ug/Kg	200	8/10/2002	TR	SW846 8260B
Dibromomethane	Below det lim	ug/Kg	200	8/10/2002	TR	SW846 8260B
1,2-Dichlorobenzene	Below det lim	ug/Kg	200	8/10/2002	TR	SW846 8260B
1,3-Dichlorobenzene	Below det lim	ug/Kg	200	8/10/2002	TR	SW846 8260B
1,4-Dichlorobenzene	Below det lim	ug/Kg	200	8/10/2002	TR	SW846 8260B
Dichlorodifluoromethane	Below det lim	ug/Kg	400	8/10/2002	TR	SW846 8260B
1,1-Dichloroethane	Below det lim	ug/Kg	200	8/10/2002	TR	SW846 8260B
1,2-Dichloroethane	Below det lim	ug/Kg	200	8/10/2002	TR	SW846 8260B
1,1-Dichloroethene	Below det lim	ug/Kg	200	8/10/2002	TR	SW846 8260B
cis-1,2-Dichloroethene	Below det lim	ug/Kg	200	8/10/2002	TR	SW846 8260B
trans-1,2-Dichloroethene	Below det lim	ug/Kg	200	8/10/2002	TR	SW846 8260B
1,2-Dichloropropane	Below det lim	ug/Kg	200	8/10/2002	TR	SW846 8260B
1,3-Dichloropropane	Below det lim	ug/Kg	200	8/10/2002	TR	SW846 8260B
2,2-Dichloropropane	Below det lim	ug/Kg	200	8/10/2002	TR	SW846 8260B
1,1-Dichloropropene	Below det lim	ug/Kg	200	8/10/2002	TR	SW846 8260B

Lab ID No: AD32377 **Collection Date:** 8/5/2002
Client Id: P3-2 (10-12) **Matrix** Sediment

Parameter	Results	Units	PQL	Start Date	Analyst	Method
cis-1,3-Dichloropropene	Below det lim	ug/Kg	200	8/10/2002	TR	SW846 8260B
trans-1,3-Dichloropropene	Below det lim	ug/Kg	200	8/10/2002	TR	SW846 8260B
Ethylbenzene	Below det lim	ug/Kg	200	8/10/2002	TR	SW846 8260B
Hexachlorobutadiene	Below det lim	ug/Kg	200	8/10/2002	TR	SW846 8260B
2-Hexanone (MBK)	Below det lim	ug/Kg	2000	8/10/2002	TR	SW846 8260B
Isopropylbenzene	Below det lim	ug/Kg	200	8/10/2002	TR	SW846 8260B
4-Isopropyltoluene	Below det lim	ug/Kg	200	8/10/2002	TR	SW846 8260B
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/Kg	200	8/10/2002	TR	SW846 8260B
4-Methyl-2-pentanone (MIBK)	Below det lim	ug/Kg	2000	8/10/2002	TR	SW846 8260B
Methylene chloride	Below det lim	ug/Kg	860	8/10/2002	TR	SW846 8260B
Naphthalene	Below det lim	ug/Kg	200	8/10/2002	TR	SW846 8260B
n-Propylbenzene	Below det lim	ug/Kg	200	8/10/2002	TR	SW846 8260B
Styrene	Below det lim	ug/Kg	200	8/10/2002	TR	SW846 8260B
1,1,1,2-Tetrachloroethane	Below det lim	ug/Kg	200	8/10/2002	TR	SW846 8260B
1,1,2,2-Tetrachloroethane	Below det lim	ug/Kg	200	8/10/2002	TR	SW846 8260B
Tetrachloroethene (PCE)	Below det lim	ug/Kg	200	8/10/2002	TR	SW846 8260B
Toluene	Below det lim	ug/Kg	200	8/10/2002	TR	SW846 8260B
1,2,3-Trichlorobenzene	Below det lim	ug/Kg	200	8/10/2002	TR	SW846 8260B
1,2,4-Trichlorobenzene	Below det lim	ug/Kg	200	8/10/2002	TR	SW846 8260B
1,1,1-Trichloroethane	Below det lim	ug/Kg	200	8/10/2002	TR	SW846 8260B
1,1,2-Trichloroethane	Below det lim	ug/Kg	200	8/10/2002	TR	SW846 8260B
Trichloroethene (TCE)	Below det lim	ug/Kg	200	8/10/2002	TR	SW846 8260B
Trichlorofluoromethane	Below det lim	ug/Kg	200	8/10/2002	TR	SW846 8260B
1,2,3-Trichloropropane	Below det lim	ug/Kg	200	8/10/2002	TR	SW846 8260B
1,2,4-Trimethylbenzene	Below det lim	ug/Kg	200	8/10/2002	TR	SW846 8260B
1,3,5-Trimethylbenzene	Below det lim	ug/Kg	200	8/10/2002	TR	SW846 8260B
Vinyl chloride	Below det lim	ug/Kg	200	8/10/2002	TR	SW846 8260B
m,p-Xylenes	Below det lim	ug/Kg	400	8/10/2002	TR	SW846 8260B
o-Xylene	Below det lim	ug/Kg	200	8/10/2002	TR	SW846 8260B
4-Bromofluorobenzene (%SR)	91	ug/Kg	0.000	8/10/2002	TR	SW846 8260B
1,4-Difluorobenzene (%SR)	101	ug/Kg	0.000	8/10/2002	TR	SW846 8260B
Chlorobenzene-d5 (%SR)	90	ug/Kg	0.000	8/10/2002	TR	SW846 8260B
TPH Preparation						
Ultrasonic Extraction	Completed			8/13/2002	RT	SW846 3550B
Petroleum Hydrocarbon Analysis						
Extractable TPH						
Total Petroleum Hydrocarbons (C9-C36)	Below det lim	mg/Kg	20	8/13/2002	MB	CT ETPH
Gasoline	Below det lim	mg/Kg	20	8/13/2002	MB	CT ETPH
Fuel Oil #2	Below det lim	mg/Kg	20	8/13/2002	MB	CT ETPH
Fuel Oil #4	Below det lim	mg/Kg	20	8/13/2002	MB	CT ETPH
Fuel Oil #6	Below det lim	mg/Kg	20	8/13/2002	MB	CT ETPH

Lab ID No: AD32377 **Collection Date:** 8/5/2002
Client Id: P3-2 (10-12) **Matrix** Sediment

Parameter	Results	Units	PQL	Start Date	Analyst	Method
Motor Oil	Below det lim	mg/Kg	20	8/13/2002	MB	CT ETPH
Aviation Fuel	Below det lim	mg/Kg	20	8/13/2002	MB	CT ETPH
Unidentified	Below det lim	mg/Kg	20	8/13/2002	MB	CT ETPH
Other Oil	Below det lim	mg/Kg	20	8/13/2002	MB	CT ETPH
1-Chloro-octadecane (%SR)	72	mg/Kg	0.	8/13/2002	MB	CT ETPH
Metals Preparation						
Mercury Digestion	Completed			8/13/2002	RB	EPA 245.1
Metals Digestion	Completed			8/13/2002	RB	EPA 200.7
Metals Analysis						
Total RCRA8 Metals						
Total Arsenic	Below det lim	mg/Kg	5.48	8/13/2002	CRC	EPA 200.7
Total Barium	38.7	mg/Kg	1.83	8/13/2002	CRC	EPA 200.7
Total Cadmium	Below det lim	mg/Kg	0.914	8/13/2002	CRC	EPA 200.7
Total Chromium	37.6	mg/Kg	1.83	8/13/2002	CRC	EPA 200.7
Total Lead	14.9	mg/Kg	2.74	8/13/2002	CRC	EPA 200.7
Total Selenium	Below det lim	mg/Kg	11.9	8/13/2002	CRC	EPA 200.7
Total Silver	Below det lim	mg/Kg	3.66	8/13/2002	CRC	EPA 200.7
Total Mercury	Below det lim	mg/Kg	0.315	8/14/2002	EPR	EPA 245.1
% Solids	48.8	%		8/13/2002	RT	SM2540 B Mod

Lab ID No: AD32378 **Collection Date:** 8/5/2002
Client Id: P3-2 (25-27) **Matrix** Sediment

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VOC Preparation						
VOC Extraction (solid)	Field ext			8/5/2002		SW846 5035
Volatile Organic Compounds						
VOCs by GC/MS						
Acetone	Below det lim	ug/Kg	4800	8/10/2002	TR	SW846 8260B
Acrylonitrile	Below det lim	ug/Kg	240	8/10/2002	TR	SW846 8260B
Benzene	Below det lim	ug/Kg	240	8/10/2002	TR	SW846 8260B
Bromobenzene	Below det lim	ug/Kg	240	8/10/2002	TR	SW846 8260B
Bromochloromethane	Below det lim	ug/Kg	240	8/10/2002	TR	SW846 8260B
Bromodichloromethane	Below det lim	ug/Kg	240	8/10/2002	TR	SW846 8260B
Bromoform	Below det lim	ug/Kg	240	8/10/2002	TR	SW846 8260B
Bromomethane	Below det lim	ug/Kg	480	8/10/2002	TR	SW846 8260B
2-Butanone (MEK)	Below det lim	ug/Kg	2400	8/10/2002	TR	SW846 8260B
n-Butylbenzene	Below det lim	ug/Kg	240	8/10/2002	TR	SW846 8260B
sec-Butylbenzene	Below det lim	ug/Kg	240	8/10/2002	TR	SW846 8260B
tert-Butylbenzene	Below det lim	ug/Kg	240	8/10/2002	TR	SW846 8260B
Carbon disulfide	Below det lim	ug/Kg	1200	8/10/2002	TR	SW846 8260B
Carbon tetrachloride	Below det lim	ug/Kg	240	8/10/2002	TR	SW846 8260B
Chlorobenzene	Below det lim	ug/Kg	240	8/10/2002	TR	SW846 8260B
Chloroethane	Below det lim	ug/Kg	480	8/10/2002	TR	SW846 8260B
Chloroform	Below det lim	ug/Kg	240	8/10/2002	TR	SW846 8260B
Chloromethane	Below det lim	ug/Kg	480	8/10/2002	TR	SW846 8260B
2-Chlorotoluene	Below det lim	ug/Kg	240	8/10/2002	TR	SW846 8260B
4-Chlorotoluene	Below det lim	ug/Kg	240	8/10/2002	TR	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	Below det lim	ug/Kg	480	8/10/2002	TR	SW846 8260B
Dibromochloromethane	Below det lim	ug/Kg	240	8/10/2002	TR	SW846 8260B
1,2-Dibromoethane (EDB)	Below det lim	ug/Kg	240	8/10/2002	TR	SW846 8260B
Dibromomethane	Below det lim	ug/Kg	240	8/10/2002	TR	SW846 8260B
1,2-Dichlorobenzene	Below det lim	ug/Kg	240	8/10/2002	TR	SW846 8260B
1,3-Dichlorobenzene	Below det lim	ug/Kg	240	8/10/2002	TR	SW846 8260B
1,4-Dichlorobenzene	Below det lim	ug/Kg	240	8/10/2002	TR	SW846 8260B
Dichlorodifluoromethane	Below det lim	ug/Kg	480	8/10/2002	TR	SW846 8260B
1,1-Dichloroethane	Below det lim	ug/Kg	240	8/10/2002	TR	SW846 8260B
1,2-Dichloroethane	Below det lim	ug/Kg	240	8/10/2002	TR	SW846 8260B
1,1-Dichloroethene	Below det lim	ug/Kg	240	8/10/2002	TR	SW846 8260B
cis-1,2-Dichloroethene	Below det lim	ug/Kg	240	8/10/2002	TR	SW846 8260B
trans-1,2-Dichloroethene	Below det lim	ug/Kg	240	8/10/2002	TR	SW846 8260B
1,2-Dichloropropane	Below det lim	ug/Kg	240	8/10/2002	TR	SW846 8260B
1,3-Dichloropropane	Below det lim	ug/Kg	240	8/10/2002	TR	SW846 8260B
2,2-Dichloropropane	Below det lim	ug/Kg	240	8/10/2002	TR	SW846 8260B
1,1-Dichloropropene	Below det lim	ug/Kg	240	8/10/2002	TR	SW846 8260B

Lab ID No: AD32378 **Collection Date:** 8/5/2002
Client Id: P3-2 (25-27) **Matrix** Sediment

Parameter	Results	Units	PQL	Start Date	Analyst	Method
cis-1,3-Dichloropropene	Below det lim	ug/Kg	240	8/10/2002	TR	SW846 8260B
trans-1,3-Dichloropropene	Below det lim	ug/Kg	240	8/10/2002	TR	SW846 8260B
Ethylbenzene	Below det lim	ug/Kg	240	8/10/2002	TR	SW846 8260B
Hexachlorobutadiene	Below det lim	ug/Kg	240	8/10/2002	TR	SW846 8260B
2-Hexanone (MBK)	Below det lim	ug/Kg	2400	8/10/2002	TR	SW846 8260B
Isopropylbenzene	Below det lim	ug/Kg	240	8/10/2002	TR	SW846 8260B
4-Isopropyltoluene	Below det lim	ug/Kg	240	8/10/2002	TR	SW846 8260B
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/Kg	240	8/10/2002	TR	SW846 8260B
4-Methyl-2-pentanone (MIBK)	Below det lim	ug/Kg	2400	8/10/2002	TR	SW846 8260B
Methylene chloride	Below det lim	ug/Kg	970	8/10/2002	TR	SW846 8260B
Naphthalene	Below det lim	ug/Kg	240	8/10/2002	TR	SW846 8260B
n-Propylbenzene	Below det lim	ug/Kg	240	8/10/2002	TR	SW846 8260B
Styrene	Below det lim	ug/Kg	240	8/10/2002	TR	SW846 8260B
1,1,1,2-Tetrachloroethane	Below det lim	ug/Kg	240	8/10/2002	TR	SW846 8260B
1,1,2,2-Tetrachloroethane	Below det lim	ug/Kg	240	8/10/2002	TR	SW846 8260B
Tetrachloroethene (PCE)	Below det lim	ug/Kg	240	8/10/2002	TR	SW846 8260B
Toluene	Below det lim	ug/Kg	240	8/10/2002	TR	SW846 8260B
1,2,3-Trichlorobenzene	Below det lim	ug/Kg	240	8/10/2002	TR	SW846 8260B
1,2,4-Trichlorobenzene	Below det lim	ug/Kg	240	8/10/2002	TR	SW846 8260B
1,1,1-Trichloroethane	Below det lim	ug/Kg	240	8/10/2002	TR	SW846 8260B
1,1,2-Trichloroethane	Below det lim	ug/Kg	240	8/10/2002	TR	SW846 8260B
Trichloroethene (TCE)	Below det lim	ug/Kg	240	8/10/2002	TR	SW846 8260B
Trichlorofluoromethane	Below det lim	ug/Kg	240	8/10/2002	TR	SW846 8260B
1,2,3-Trichloropropane	Below det lim	ug/Kg	240	8/10/2002	TR	SW846 8260B
1,2,4-Trimethylbenzene	Below det lim	ug/Kg	240	8/10/2002	TR	SW846 8260B
1,3,5-Trimethylbenzene	Below det lim	ug/Kg	240	8/10/2002	TR	SW846 8260B
Vinyl chloride	Below det lim	ug/Kg	240	8/10/2002	TR	SW846 8260B
m,p-Xylenes	Below det lim	ug/Kg	480	8/10/2002	TR	SW846 8260B
o-Xylene	Below det lim	ug/Kg	240	8/10/2002	TR	SW846 8260B
4-Bromofluorobenzene (%SR)	88	ug/Kg	0.000	8/10/2002	TR	SW846 8260B
1,4-Difluorobenzene (%SR)	100	ug/Kg	0.000	8/10/2002	TR	SW846 8260B
Chlorobenzene-d5 (%SR)	88	ug/Kg	0.000	8/10/2002	TR	SW846 8260B
TPH Preparation						
Ultrasonic Extraction	Completed			8/13/2002	RT	SW846 3550B
Petroleum Hydrocarbon Analysis						
Extractable TPH						
Total Petroleum Hydrocarbons (C9-C36)	Below det lim	mg/Kg	10	8/13/2002	MB	CT ETPH
Gasoline	Below det lim	mg/Kg	10	8/13/2002	MB	CT ETPH
Fuel Oil #2	Below det lim	mg/Kg	10	8/13/2002	MB	CT ETPH
Fuel Oil #4	Below det lim	mg/Kg	10	8/13/2002	MB	CT ETPH
Fuel Oil #6	Below det lim	mg/Kg	10	8/13/2002	MB	CT ETPH

Lab ID No: AD32378
Client Id: P3-2 (25-27)

Collection Date: 8/5/2002
Matrix Sediment

Parameter	Results	Units	PQL	Start Date	Analyst	Method
Motor Oil	Below det lim	mg/Kg	10	8/13/2002	MB	CT ETPH
Aviation Fuel	Below det lim	mg/Kg	10	8/13/2002	MB	CT ETPH
Unidentified	Below det lim	mg/Kg	10	8/13/2002	MB	CT ETPH
Other Oil	Below det lim	mg/Kg	10	8/13/2002	MB	CT ETPH
1-Chloro-octadecane (%SR)	63	mg/Kg	0.	8/13/2002	MB	CT ETPH
Metals Preparation						
Mercury Digestion	Completed			8/13/2002	RB	EPA 245.1
Mercury Digestion on Leachate	Completed			8/13/2002	LFR	EPA 245.1
Metals Digestion	Completed			8/13/2002	RB	EPA 200.7
Metals Digestion on Leachate	Completed			8/13/2002	LFR	EPA 200.7
Metals Analysis						
SPLP RCRA8 Metals						
SPLP Arsenic	Below det lim	mg/L	0.015	8/14/2002	CRC	1312/200.7
SPLP Barium	Below det lim	mg/L	0.0749	8/14/2002	CRC	1312/200.7
SPLP Cadmium	Below det lim	mg/L	0.0025	8/14/2002	CRC	1312/200.7
SPLP Chromium	0.0157	mg/L	0.005	8/14/2002	CRC	1312/200.7
SPLP Lead	Below det lim	mg/L	0.0075	8/14/2002	CRC	1312/200.7
SPLP Selenium	Below det lim	mg/L	0.015	8/14/2002	CRC	1312/200.7
SPLP Silver	Below det lim	mg/L	0.010	8/14/2002	CRC	1312/200.7
SPLP Mercury	Below det lim	mg/L	0.0004	8/14/2002	EPR	1312/245.1
Total RCRA8 Metals						
Total Arsenic	Below det lim	mg/Kg	5.03	8/13/2002	CRC	EPA 200.7
Total Barium	28.5	mg/Kg	1.67	8/13/2002	CRC	EPA 200.7
Total Cadmium	Below det lim	mg/Kg	0.837	8/13/2002	CRC	EPA 200.7
Total Chromium	31.1	mg/Kg	1.67	8/13/2002	CRC	EPA 200.7
Total Lead	14.0	mg/Kg	2.51	8/13/2002	CRC	EPA 200.7
Total Selenium	Below det lim	mg/Kg	11.6	8/13/2002	CRC	EPA 200.7
Total Silver	Below det lim	mg/Kg	3.35	8/13/2002	CRC	EPA 200.7
Total Mercury	Below det lim	mg/Kg	0.292	8/14/2002	EPR	EPA 245.1
TCLP/SPLP Preparation						
SPLP Extraction for Metals	Completed			8/9/2002	MP	SW846 1312
% Solids	54.1	%		8/13/2002	RT	SM2540 B Mod

Lab ID No: AD32379 **Collection Date:** 8/5/2002
Client Id: P3-2 (30-32) **Matrix** Sediment

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VOC Preparation						
VOC Extraction (solid)	Field ext			8/5/2002		SW846 5035
Volatile Organic Compounds						
VOCs by GC/MS						
Acetone	Below det lim	ug/Kg	2160	8/10/2002	TR	SW846 8260B
Acrylonitrile	Below det lim	ug/Kg	108	8/10/2002	TR	SW846 8260B
Benzene	Below det lim	ug/Kg	108	8/10/2002	TR	SW846 8260B
Bromobenzene	Below det lim	ug/Kg	108	8/10/2002	TR	SW846 8260B
Bromochloromethane	Below det lim	ug/Kg	108	8/10/2002	TR	SW846 8260B
Bromodichloromethane	Below det lim	ug/Kg	108	8/10/2002	TR	SW846 8260B
Bromoform	Below det lim	ug/Kg	108	8/10/2002	TR	SW846 8260B
Bromomethane	Below det lim	ug/Kg	216	8/10/2002	TR	SW846 8260B
2-Butanone (MEK)	Below det lim	ug/Kg	1080	8/10/2002	TR	SW846 8260B
n-Butylbenzene	Below det lim	ug/Kg	108	8/10/2002	TR	SW846 8260B
sec-Butylbenzene	Below det lim	ug/Kg	108	8/10/2002	TR	SW846 8260B
tert-Butylbenzene	Below det lim	ug/Kg	108	8/10/2002	TR	SW846 8260B
Carbon disulfide	Below det lim	ug/Kg	540	8/10/2002	TR	SW846 8260B
Carbon tetrachloride	Below det lim	ug/Kg	108	8/10/2002	TR	SW846 8260B
Chlorobenzene	Below det lim	ug/Kg	108	8/10/2002	TR	SW846 8260B
Chloroethane	Below det lim	ug/Kg	216	8/10/2002	TR	SW846 8260B
Chloroform	Below det lim	ug/Kg	108	8/10/2002	TR	SW846 8260B
Chloromethane	Below det lim	ug/Kg	216	8/10/2002	TR	SW846 8260B
2-Chlorotoluene	Below det lim	ug/Kg	108	8/10/2002	TR	SW846 8260B
4-Chlorotoluene	Below det lim	ug/Kg	108	8/10/2002	TR	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	Below det lim	ug/Kg	216	8/10/2002	TR	SW846 8260B
Dibromochloromethane	Below det lim	ug/Kg	108	8/10/2002	TR	SW846 8260B
1,2-Dibromoethane (EDB)	Below det lim	ug/Kg	108	8/10/2002	TR	SW846 8260B
Dibromomethane	Below det lim	ug/Kg	108	8/10/2002	TR	SW846 8260B
1,2-Dichlorobenzene	Below det lim	ug/Kg	108	8/10/2002	TR	SW846 8260B
1,3-Dichlorobenzene	Below det lim	ug/Kg	108	8/10/2002	TR	SW846 8260B
1,4-Dichlorobenzene	Below det lim	ug/Kg	108	8/10/2002	TR	SW846 8260B
Dichlorodifluoromethane	Below det lim	ug/Kg	216	8/10/2002	TR	SW846 8260B
1,1-Dichloroethane	Below det lim	ug/Kg	108	8/10/2002	TR	SW846 8260B
1,2-Dichloroethane	Below det lim	ug/Kg	108	8/10/2002	TR	SW846 8260B
1,1-Dichloroethene	Below det lim	ug/Kg	108	8/10/2002	TR	SW846 8260B
cis-1,2-Dichloroethene	Below det lim	ug/Kg	108	8/10/2002	TR	SW846 8260B
trans-1,2-Dichloroethene	Below det lim	ug/Kg	108	8/10/2002	TR	SW846 8260B
1,2-Dichloropropane	Below det lim	ug/Kg	108	8/10/2002	TR	SW846 8260B
1,3-Dichloropropane	Below det lim	ug/Kg	108	8/10/2002	TR	SW846 8260B
2,2-Dichloropropane	Below det lim	ug/Kg	108	8/10/2002	TR	SW846 8260B
1,1-Dichloropropene	Below det lim	ug/Kg	108	8/10/2002	TR	SW846 8260B

Lab ID No: AD32379 **Collection Date:** 8/5/2002
Client Id: P3-2 (30-32) **Matrix** Sediment

Parameter	Results	Units	PQL	Start Date	Analyst	Method
cis-1,3-Dichloropropene	Below det lim	ug/Kg	108	8/10/2002	TR	SW846 8260B
trans-1,3-Dichloropropene	Below det lim	ug/Kg	108	8/10/2002	TR	SW846 8260B
Ethylbenzene	Below det lim	ug/Kg	108	8/10/2002	TR	SW846 8260B
Hexachlorobutadiene	Below det lim	ug/Kg	108	8/10/2002	TR	SW846 8260B
2-Hexanone (MBK)	Below det lim	ug/Kg	1080	8/10/2002	TR	SW846 8260B
Isopropylbenzene	Below det lim	ug/Kg	108	8/10/2002	TR	SW846 8260B
4-Isopropyltoluene	Below det lim	ug/Kg	108	8/10/2002	TR	SW846 8260B
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/Kg	108	8/10/2002	TR	SW846 8260B
4-Methyl-2-pentanone (MIBK)	Below det lim	ug/Kg	1080	8/10/2002	TR	SW846 8260B
Methylene chloride	Below det lim	ug/Kg	435	8/10/2002	TR	SW846 8260B
Naphthalene	Below det lim	ug/Kg	108	8/10/2002	TR	SW846 8260B
n-Propylbenzene	Below det lim	ug/Kg	108	8/10/2002	TR	SW846 8260B
Styrene	Below det lim	ug/Kg	108	8/10/2002	TR	SW846 8260B
1,1,1,2-Tetrachloroethane	Below det lim	ug/Kg	108	8/10/2002	TR	SW846 8260B
1,1,2,2-Tetrachloroethane	Below det lim	ug/Kg	108	8/10/2002	TR	SW846 8260B
Tetrachloroethene (PCE)	Below det lim	ug/Kg	108	8/10/2002	TR	SW846 8260B
Toluene	Below det lim	ug/Kg	108	8/10/2002	TR	SW846 8260B
1,2,3-Trichlorobenzene	Below det lim	ug/Kg	108	8/10/2002	TR	SW846 8260B
1,2,4-Trichlorobenzene	Below det lim	ug/Kg	108	8/10/2002	TR	SW846 8260B
1,1,1-Trichloroethane	Below det lim	ug/Kg	108	8/10/2002	TR	SW846 8260B
1,1,2-Trichloroethane	Below det lim	ug/Kg	108	8/10/2002	TR	SW846 8260B
Trichloroethene (TCE)	Below det lim	ug/Kg	108	8/10/2002	TR	SW846 8260B
Trichlorofluoromethane	Below det lim	ug/Kg	108	8/10/2002	TR	SW846 8260B
1,2,3-Trichloropropane	Below det lim	ug/Kg	108	8/10/2002	TR	SW846 8260B
1,2,4-Trimethylbenzene	Below det lim	ug/Kg	108	8/10/2002	TR	SW846 8260B
1,3,5-Trimethylbenzene	Below det lim	ug/Kg	108	8/10/2002	TR	SW846 8260B
Vinyl chloride	Below det lim	ug/Kg	108	8/10/2002	TR	SW846 8260B
m,p-Xylenes	Below det lim	ug/Kg	216	8/10/2002	TR	SW846 8260B
o-Xylene	Below det lim	ug/Kg	108	8/10/2002	TR	SW846 8260B
4-Bromofluorobenzene (%SR)	89	ug/Kg	0.000	8/10/2002	TR	SW846 8260B
1,4-Difluorobenzene (%SR)	100	ug/Kg	0.000	8/10/2002	TR	SW846 8260B
Chlorobenzene-d5 (%SR)	88	ug/Kg	0.000	8/10/2002	TR	SW846 8260B
TPH Preparation						
Ultrasonic Extraction	Completed			8/13/2002	RT	SW846 3550B
Petroleum Hydrocarbon Analysis						
Extractable TPH						
Total Petroleum Hydrocarbons (C9-C36)	Below det lim	mg/Kg	10	8/13/2002	MB	CT ETPH
Gasoline	Below det lim	mg/Kg	10	8/13/2002	MB	CT ETPH
Fuel Oil #2	Below det lim	mg/Kg	10	8/13/2002	MB	CT ETPH
Fuel Oil #4	Below det lim	mg/Kg	10	8/13/2002	MB	CT ETPH
Fuel Oil #6	Below det lim	mg/Kg	10	8/13/2002	MB	CT ETPH

Lab ID No: AD32379 **Collection Date:** 8/5/2002
Client Id: P3-2 (30-32) **Matrix** Sediment

Parameter	Results	Units	PQL	Start Date	Analyst	Method
Motor Oil	Below det lim	mg/Kg	10	8/13/2002	MB	CT ETPH
Aviation Fuel	Below det lim	mg/Kg	10	8/13/2002	MB	CT ETPH
Unidentified	Below det lim	mg/Kg	10	8/13/2002	MB	CT ETPH
Other Oil	Below det lim	mg/Kg	10	8/13/2002	MB	CT ETPH
1-Chloro-octadecane (%SR)	81	mg/Kg	0.	8/13/2002	MB	CT ETPH
Metals Preparation						
Mercury Digestion	Completed			8/13/2002	RB	EPA 245.1
Mercury Digestion on Leachate	Completed			8/13/2002	LFR	EPA 245.1
Metals Digestion	Completed			8/13/2002	RB	EPA 200.7
Metals Digestion on Leachate	Completed			8/13/2002	LFR	EPA 200.7
Metals Analysis						
SPLP RCRA8 Metals						
SPLP Arsenic	Below det lim	mg/L	0.015	8/14/2002	CRC	1312/200.7
SPLP Barium	0.0343	mg/L	0.005	8/14/2002	CRC	1312/200.7
SPLP Cadmium	Below det lim	mg/L	0.0025	8/14/2002	CRC	1312/200.7
SPLP Chromium	Below det lim	mg/L	0.005	8/14/2002	CRC	1312/200.7
SPLP Lead	Below det lim	mg/L	0.0075	8/14/2002	CRC	1312/200.7
SPLP Selenium	Below det lim	mg/L	0.015	8/14/2002	CRC	1312/200.7
SPLP Silver	Below det lim	mg/L	0.010	8/14/2002	CRC	1312/200.7
SPLP Mercury	Below det lim	mg/L	0.0004	8/14/2002	EPR	1312/245.1
Total RCRA8 Metals						
Total Arsenic	Below det lim	mg/Kg	3.82	8/13/2002	CRC	EPA 200.7
Total Barium	9.81	mg/Kg	1.27	8/13/2002	CRC	EPA 200.7
Total Cadmium	Below det lim	mg/Kg	0.637	8/13/2002	CRC	EPA 200.7
Total Chromium	12.2	mg/Kg	1.27	8/13/2002	CRC	EPA 200.7
Total Lead	5.15	mg/Kg	1.91	8/13/2002	CRC	EPA 200.7
Total Selenium	Below det lim	mg/Kg	4.63	8/13/2002	CRC	EPA 200.7
Total Silver	Below det lim	mg/Kg	2.55	8/13/2002	CRC	EPA 200.7
Total Mercury	Below det lim	mg/Kg	0.227	8/14/2002	EPR	EPA 245.1
TCLP/SPLP Preparation						
SPLP Extraction for Metals	Completed			8/9/2002	MP	SW846 1312
% Solids	72.9	%		8/13/2002	RT	SM2540 B Mod

Lab ID No: AD32380 **Collection Date:** 8/5/2002
Client Id: P3-2 (35-37) **Matrix** Sediment

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VOC Preparation						
VOC Extraction (solid)	Field ext			8/5/2002		SW846 5035
Volatile Organic Compounds						
VOCs by GC/MS						
Acetone	Below det lim	ug/Kg	1930	8/10/2002	TR	SW846 8260B
Acrylonitrile	Below det lim	ug/Kg	96.6	8/10/2002	TR	SW846 8260B
Benzene	Below det lim	ug/Kg	96.6	8/10/2002	TR	SW846 8260B
Bromobenzene	Below det lim	ug/Kg	96.6	8/10/2002	TR	SW846 8260B
Bromochloromethane	Below det lim	ug/Kg	96.6	8/10/2002	TR	SW846 8260B
Bromodichloromethane	Below det lim	ug/Kg	96.6	8/10/2002	TR	SW846 8260B
Bromoform	Below det lim	ug/Kg	96.6	8/10/2002	TR	SW846 8260B
Bromomethane	Below det lim	ug/Kg	193	8/10/2002	TR	SW846 8260B
2-Butanone (MEK)	Below det lim	ug/Kg	966	8/10/2002	TR	SW846 8260B
n-Butylbenzene	Below det lim	ug/Kg	96.6	8/10/2002	TR	SW846 8260B
sec-Butylbenzene	Below det lim	ug/Kg	96.6	8/10/2002	TR	SW846 8260B
tert-Butylbenzene	Below det lim	ug/Kg	96.6	8/10/2002	TR	SW846 8260B
Carbon disulfide	Below det lim	ug/Kg	483	8/10/2002	TR	SW846 8260B
Carbon tetrachloride	Below det lim	ug/Kg	96.6	8/10/2002	TR	SW846 8260B
Chlorobenzene	Below det lim	ug/Kg	96.6	8/10/2002	TR	SW846 8260B
Chloroethane	Below det lim	ug/Kg	193	8/10/2002	TR	SW846 8260B
Chloroform	Below det lim	ug/Kg	96.6	8/10/2002	TR	SW846 8260B
Chloromethane	Below det lim	ug/Kg	193	8/10/2002	TR	SW846 8260B
2-Chlorotoluene	Below det lim	ug/Kg	96.6	8/10/2002	TR	SW846 8260B
4-Chlorotoluene	Below det lim	ug/Kg	96.6	8/10/2002	TR	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	Below det lim	ug/Kg	193	8/10/2002	TR	SW846 8260B
Dibromochloromethane	Below det lim	ug/Kg	96.6	8/10/2002	TR	SW846 8260B
1,2-Dibromoethane (EDB)	Below det lim	ug/Kg	96.6	8/10/2002	TR	SW846 8260B
Dibromomethane	Below det lim	ug/Kg	96.6	8/10/2002	TR	SW846 8260B
1,2-Dichlorobenzene	Below det lim	ug/Kg	96.6	8/10/2002	TR	SW846 8260B
1,3-Dichlorobenzene	Below det lim	ug/Kg	96.6	8/10/2002	TR	SW846 8260B
1,4-Dichlorobenzene	Below det lim	ug/Kg	96.6	8/10/2002	TR	SW846 8260B
Dichlorodifluoromethane	Below det lim	ug/Kg	193	8/10/2002	TR	SW846 8260B
1,1-Dichloroethane	Below det lim	ug/Kg	96.6	8/10/2002	TR	SW846 8260B
1,2-Dichloroethane	Below det lim	ug/Kg	96.6	8/10/2002	TR	SW846 8260B
1,1-Dichloroethene	Below det lim	ug/Kg	96.6	8/10/2002	TR	SW846 8260B
cis-1,2-Dichloroethene	Below det lim	ug/Kg	96.6	8/10/2002	TR	SW846 8260B
trans-1,2-Dichloroethene	Below det lim	ug/Kg	96.6	8/10/2002	TR	SW846 8260B
1,2-Dichloropropane	Below det lim	ug/Kg	96.6	8/10/2002	TR	SW846 8260B
1,3-Dichloropropane	Below det lim	ug/Kg	96.6	8/10/2002	TR	SW846 8260B
2,2-Dichloropropane	Below det lim	ug/Kg	96.6	8/10/2002	TR	SW846 8260B
1,1-Dichloropropene	Below det lim	ug/Kg	96.6	8/10/2002	TR	SW846 8260B

Lab ID No: AD32380
Client Id: P3-2 (35-37)

Collection Date: 8/5/2002
Matrix Sediment

Parameter	Results	Units	PQL	Start Date	Analyst	Method
cis-1,3-Dichloropropene	Below det lim	ug/Kg	96.6	8/10/2002	TR	SW846 8260B
trans-1,3-Dichloropropene	Below det lim	ug/Kg	96.6	8/10/2002	TR	SW846 8260B
Ethylbenzene	Below det lim	ug/Kg	96.6	8/10/2002	TR	SW846 8260B
Hexachlorobutadiene	Below det lim	ug/Kg	96.6	8/10/2002	TR	SW846 8260B
2-Hexanone (MBK)	Below det lim	ug/Kg	966	8/10/2002	TR	SW846 8260B
Isopropylbenzene	Below det lim	ug/Kg	96.6	8/10/2002	TR	SW846 8260B
4-Isopropyltoluene	Below det lim	ug/Kg	96.6	8/10/2002	TR	SW846 8260B
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/Kg	96.6	8/10/2002	TR	SW846 8260B
4-Methyl-2-pentanone (MIBK)	Below det lim	ug/Kg	966	8/10/2002	TR	SW846 8260B
Methylene chloride	Below det lim	ug/Kg	370	8/10/2002	TR	SW846 8260B
Naphthalene	Below det lim	ug/Kg	96.6	8/10/2002	TR	SW846 8260B
n-Propylbenzene	Below det lim	ug/Kg	96.6	8/10/2002	TR	SW846 8260B
Styrene	Below det lim	ug/Kg	96.6	8/10/2002	TR	SW846 8260B
1,1,1,2-Tetrachloroethane	Below det lim	ug/Kg	96.6	8/10/2002	TR	SW846 8260B
1,1,2,2-Tetrachloroethane	Below det lim	ug/Kg	96.6	8/10/2002	TR	SW846 8260B
Tetrachloroethene (PCE)	Below det lim	ug/Kg	96.6	8/10/2002	TR	SW846 8260B
Toluene	Below det lim	ug/Kg	96.6	8/10/2002	TR	SW846 8260B
1,2,3-Trichlorobenzene	Below det lim	ug/Kg	96.6	8/10/2002	TR	SW846 8260B
1,2,4-Trichlorobenzene	Below det lim	ug/Kg	96.6	8/10/2002	TR	SW846 8260B
1,1,1-Trichloroethane	Below det lim	ug/Kg	96.6	8/10/2002	TR	SW846 8260B
1,1,2-Trichloroethane	Below det lim	ug/Kg	96.6	8/10/2002	TR	SW846 8260B
Trichloroethene (TCE)	Below det lim	ug/Kg	96.6	8/10/2002	TR	SW846 8260B
Trichlorofluoromethane	Below det lim	ug/Kg	96.6	8/10/2002	TR	SW846 8260B
1,2,3-Trichloropropane	Below det lim	ug/Kg	96.6	8/10/2002	TR	SW846 8260B
1,2,4-Trimethylbenzene	Below det lim	ug/Kg	96.6	8/10/2002	TR	SW846 8260B
1,3,5-Trimethylbenzene	Below det lim	ug/Kg	96.6	8/10/2002	TR	SW846 8260B
Vinyl chloride	Below det lim	ug/Kg	96.6	8/10/2002	TR	SW846 8260B
m,p-Xylenes	Below det lim	ug/Kg	193	8/10/2002	TR	SW846 8260B
o-Xylene	Below det lim	ug/Kg	96.6	8/10/2002	TR	SW846 8260B
4-Bromofluorobenzene (%SR)	87	ug/Kg	0.000	8/10/2002	TR	SW846 8260B
1,4-Difluorobenzene (%SR)	100	ug/Kg	0.000	8/10/2002	TR	SW846 8260B
Chlorobenzene-d5 (%SR)	87	ug/Kg	0.000	8/10/2002	TR	SW846 8260B
TPH Preparation						
Ultrasonic Extraction	Completed			8/13/2002	RT	SW846 3550B
Petroleum Hydrocarbon Analysis						
Extractable TPH						
Total Petroleum Hydrocarbons (C9-C36)	Below det lim	mg/Kg	20	8/13/2002	MB	CT ETPH
Gasoline	Below det lim	mg/Kg	20	8/13/2002	MB	CT ETPH
Fuel Oil #2	Below det lim	mg/Kg	20	8/13/2002	MB	CT ETPH
Fuel Oil #4	Below det lim	mg/Kg	20	8/13/2002	MB	CT ETPH
Fuel Oil #6	Below det lim	mg/Kg	20	8/13/2002	MB	CT ETPH

Lab ID No: AD32380
Client Id: P3-2 (35-37)

Collection Date: 8/5/2002
Matrix Sediment

Parameter	Results	Units	PQL	Start Date	Analyst	Method
Motor Oil	Below det lim	mg/Kg	20	8/13/2002	MB	CT ETPH
Aviation Fuel	Below det lim	mg/Kg	20	8/13/2002	MB	CT ETPH
Unidentified	Below det lim	mg/Kg	20	8/13/2002	MB	CT ETPH
Other Oil	Below det lim	mg/Kg	20	8/13/2002	MB	CT ETPH
1-Chloro-octadecane (%SR)	69	mg/Kg	0.	8/13/2002	MB	CT ETPH
Metals Preparation						
Mercury Digestion	Completed			8/13/2002	RB	EPA 245.1
Mercury Digestion on Leachate	Completed			8/13/2002	LFR	EPA 245.1
Metals Digestion	Completed			8/13/2002	RB	EPA 200.7
Metals Digestion on Leachate	Completed			8/13/2002	LFR	EPA 200.7
Metals Analysis						
SPLP RCRA8 Metals						
SPLP Arsenic	Below det lim	mg/L	0.015	8/14/2002	CRC	1312/200.7
SPLP Barium	Below det lim	mg/L	0.0086	8/14/2002	CRC	1312/200.7
SPLP Cadmium	Below det lim	mg/L	0.0025	8/14/2002	CRC	1312/200.7
SPLP Chromium	Below det lim	mg/L	0.005	8/14/2002	CRC	1312/200.7
SPLP Lead	Below det lim	mg/L	0.0075	8/14/2002	CRC	1312/200.7
SPLP Selenium	Below det lim	mg/L	0.015	8/14/2002	CRC	1312/200.7
SPLP Silver	Below det lim	mg/L	0.010	8/14/2002	CRC	1312/200.7
SPLP Mercury	Below det lim	mg/L	0.0004	8/14/2002	EPR	1312/245.1
Total RCRA8 Metals						
Total Arsenic	Below det lim	mg/Kg	3.41	8/13/2002	CRC	EPA 200.7
Total Barium	15.4	mg/Kg	1.14	8/13/2002	CRC	EPA 200.7
Total Cadmium	Below det lim	mg/Kg	0.568	8/13/2002	CRC	EPA 200.7
Total Chromium	6.10	mg/Kg	1.14	8/13/2002	CRC	EPA 200.7
Total Lead	2.65	mg/Kg	1.70	8/13/2002	CRC	EPA 200.7
Total Selenium	Below det lim	mg/Kg	3.41	8/13/2002	CRC	EPA 200.7
Total Silver	Below det lim	mg/Kg	2.27	8/13/2002	CRC	EPA 200.7
Total Mercury	Below det lim	mg/Kg	0.213	8/14/2002	EPR	EPA 245.1
TCLP/SPLP Preparation						
SPLP Extraction for Metals	Completed			8/9/2002	MP	SW846 1312
% Solids	77.7	%		8/13/2002	RT	SM2540 B Mod

Lab ID No: AD32380
Client Id: P3-2 (35-37)

Collection Date: 8/5/2002
Matrix Sediment

Parameter	Results	Units	PQL	Start Date	Analyst	Method

Reviewed by:

Quality Service/Quality Assurance Depts.

Validated by:

President/Laboratory Director

8/15/2002

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

Laboratory Report Supplement

Interpretation of Total Petroleum Hydrocarbon Report

Petroleum identification is determined by comparing the GC fingerprint obtained from the sample with a library of GC fingerprints obtained from analyses of various petroleum products. Possible match categories are as follows:

Gasoline – includes regular, unleaded, premium, etc.
Fuel Oil #2 – includes home heating oil, #2 fuel oil, and diesel
Fuel Oil #4 – includes #4 fuel oil
Fuel Oil #6 – includes #6 fuel oil and bunker "C" oil
Motor Oil – includes virgin and waste automobile oil
Ligroin – includes mineral spirits, petroleum naphtha, vm&p naphtha
Aviation Fuel – includes kerosene, Jet A and JP-4
Other Oil – includes lubricating and cutting oil, and silicon oil

Factors such as microbial degradation, weathering and solubility generally prevent specific identification within a petroleum category. A finding of "unidentified" means that the sample fingerprint was characteristic of a petroleum product, but could not be matched to a fingerprint in our library.

After identification, the amount present in the sample is quantified using a calibration curve prepared from a petroleum product of the same category as the identified petroleum. Unidentified petroleum is quantified using a petroleum calibration that approximates the distribution of compounds in the sample. A * in the results column indicates the primary petroleum fingerprint calibration used to quantify unidentified samples. A ** in the results column indicates the secondary petroleum fingerprint calibration used to quantify unidentified samples. A *** in the results column indicates the tertiary petroleum fingerprint calibration used to quantify unidentified samples.

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

Laboratory Report Supplement
References

SW 846	Test Methods for Evaluating Solid Waste. Third edition, 1998
40 CFR 136	Guidelines Establishing Test Procedures for the Analysis of Pollutants Under the Clean Water Act
40 CFR 141	National Primary Drinking Water Regulations
40 CFR 143	National Secondary Drinking Water Regulations
40 CFR 160	Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), Good Laboratory Practice Standards
APHA-AWWA-WPCF	Standard Methods for the Examination of Water and Wastewater. 19th edition, 1995
ASTM D 3328	Standard Methods for the Comparison of Waterborne Petroleum Oils by Gas Chromatography
EPA 540/G-87/003	Data Quality Objectives for Remediation Response Activities, Development Process
EPA 600/4-79-012	Quality Assurance Handbook for Analytical Quality Control in Water and Wastewater Laboratories
EPA 600/4-79-019	Handbook for Analytical Quality Control in Water and Wastewater Laboratories
EPA 600/4-79-020	Method for the Chemical Analysis of Water and Wastes
EPA 600/4-82-057	Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater
EPA 600/4-85/056	Choosing Cost-Effective QA/QC Programs for Chemical Analysis
EPA 600/4-88/039	Method for the Determination of Organic Compounds in Drinking Water
CT ETPH	Analysis of Extractable Total Petroleum Hydrocarbons (ETPH)
MADEP EPH	Method for the Determination of Extractable Petroleum Hydrocarbons (EPH)
MADEP VPH	Method for the Determination of Volatile Petroleum Hydrocarbons (VPH)
QAMS 004/80	Guidelines and Specifications for Preparing Quality Assurance Program Plans, USEPA Office of Monitoring System and Quality Assurance
GC-D-52-77	Oil Spill Identification System

Acronyms & Abbreviations

AA	Atomic Absorption
ASTM	American Society for Testing and Materials
BOD	Biological Oxygen Demand
°C	degree(s) Celsius
COD	Chemical Oxygen Demand
CMR	Code of Massachusetts Regulations
DEP	Department of Environmental Protection
DI	De-ionized
DO	Dissolved Oxygen
EPA	Environmental Protection Agency
EPH	Extractable Petroleum Hydrocarbons
FID	Flame Ionization Detector
GC	Gas Chromatograph
GC / MS	Gas Chromatograph / Mass Spectrometer
ICP	Inductively Coupled Plasma
Id	Identification
MCL	Maximum Contaminant Level
MDL	Minimum Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
NTU	Nephelometric Turbidity Units
PAHs	Polynuclear Aromatic Hydrocarbons
PCBs	Polychlorinated Biphenyls
PID	Photo Ionization Detector
PQL	Practical Quantitation Limit
R	Recovery (%R: Percent Recovery)
RSD	Relative Standard Deviation
SM	Standard Method
SR	Surrogate Recovery (%SR)
SW	Solid Waste
THM	Trihalomethane(s)
TOC	Total Organic Carbon
TOX	Total Organic Halogen
TPH	Total Petroleum Hydrocarbons
VOC	Volatile Organic Compound
VPH	Volatile Petroleum Hydrocarbons

Definitions

Equipment Blank:	A sample of analyte-free media, which has been used to rinse the sampling equipment. It is collected after completion of decontamination and prior to sampling. This blank is useful in documenting adequate decontamination of sampling equipment.
Field Duplicate:	Independent samples, which are collected as close as possible to the same point in space and time. They are two separate samples taken from the same source, stored in separate containers, and analyzed independently. These duplicates are useful in documenting the precision of the sampling process.
Laboratory Control Sample (LCS):	A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.
Matrix Duplicate:	An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.
Matrix Spike:	An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.
Matrix Spike Duplicates:	Intra-laboratory split of samples spiked with identical concentrations of target analyte(s). The spiking occurs prior to sample preparation and analysis. They are used to document the precision and bias of a method in a given sample matrix.
Method Blank:	An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.
Method Detection Limit (MDL):	The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.
Practical Quantitation Limit (PQL):	The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. The PQL is generally 5 to 10 times the MDL. However, it may be nominally chosen within these guidelines to simplify data reporting. For many analytes the PQL analyte concentration is selected as the lowest non-zero standard in the calibration curve. Sample PQLs are highly matrix-dependent.
Precision:	The agreement among a set of replicate measurements without assumption of knowledge of the true value. Precision is estimated by means of duplicate/replicate analyses. These samples should contain concentrations of analyte above the MDL, and may involve the use of matrix spikes. The Relative Percent Difference (%RPD) is used to estimate the precision between two samples.
Surrogate:	An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.
Trip Blank:	A sample of analyte-free media taken from the laboratory to the sampling site and returned to the laboratory unopened. A trip blank is used to document contamination attributable to shipping and field handling procedures. This type of blank is useful in documenting contamination of volatile organic samples.

0807143678

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page ____ of ____

Special Handling:
- [x] Standard TAT ~~7 to 10~~ Conn DOT 5 days
- [ ] Rush TAT - Date Needed: ____
- All TATs subject to laboratory approval.
- Min. 24-hour notification needed for rushes.
- All samples are disposed of after 60 days unless otherwise instructed.

Report To: David Williams (CEE)
100 Shield Street
West Hartford CT 06110

Project Mgr.: David Williams

Invoice To: Michelle Malone
"same"

J2080502

P.O. No.: ____ RQN: ____

Project No.: A2100160
Site Name: West River Bridge
Location: West/New Haven State: CT
Sampler(s): David Williams

1=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid
7=CH_3OH 8= $NaHSO_4$ 9= none 10= methanol

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW= Surface Water SO=Soil SL=Sludge A=Air
X1=____ X2=sediment X3=____

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Preservative	Containers: # of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	CT ETPH	Analyses: SPLP Extraction RCRA 8 metals	VOC's - 8260 - 5035	PAH's - 8270	mass - 8 RCRA metals	reactivity (cyanide & sulfide)	ignitability / flash pt	corrosivity (pH)	PCB's - 8082	Notes:
AC37374	surface water	8/5/02		G	SW	4				1					X					
AC37375	P3-2 (0-2')				X2	10/4	1		1		X	X	X	X	X	X		X	X	X	
AC37376	P3-2 (5-7')				X2	10/4	1		1		X	X	X	X	X	X		X	X	X	
AC37377	P3-2 (10-12')				X2	10/4	1		1		X	X	X		X						Note new info for all analysis orig from PCB's
AC37378	P3-2 (25-27')				X2	10/4	1		1		X	X	X		X						
AC37379	P3-2 (30-32')				X2	10/4	1		1		X	X	X		X						
AC37380	P3-2 (35-37')				X2	10/4	1		1		X	X	X		X						
AC																					
AC																					
AC																					

Relinquished by:

	Received by:	Date:	Time:
Dept T Worden	CEE Friday	8/6/02	9:33 am
Dept T Worden		8/9/02	10:11
		8/9/02	13:25

- [x] Fax results when available to (860) 953-7407
- [ ] E-mail results when available to ____

Condition upon Receipt: [ ] Iced [ ] Ambient [ ] 4 °C

~ Cooler Temp

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

Massachusetts Certification # M-MA138
Rhode Island # 98 Maine # MA138
Florida # E87600 / 87562
New Hampshire # 2538
Connecticut # PH-0777
New York # 11393

RECEIVED
AUG 23 2002
CONSULTING ENVIRONMENTAL ENGINEERS, INC.

Consulting Environmental
100 Shield Street
West Hartford, CT 06110

Attn: David Williams

Tuesday, August 20, 2002

Report Status:
☑ Final Report
☐ Re-issued Report
☐ Revised Report

Client Project Number: A2100160 **Location:** West River Bridge - CT

Laboratory ID	Client Sample ID	Analyses Requested
AD33531	P3-1 (0-2)	Extractable TPH
		Ultrasonic Extraction
		VOCs by GC/MS
		VOC Extraction (solid)
		Ultrasonic Extraction
		Ignitability of Solids
		Flash Point
		pH
		Metals Digestion
		Mercury Digestion
		Total RCRA8 Metals
		Total Mercury
		Polychlorinated Biphenyls by GC
		% Solids
AD33532	P3-1 (5-7)	Extractable TPH
		Ultrasonic Extraction
		VOCs by GC/MS
		VOC Extraction (solid)
		Ultrasonic Extraction
		Ignitability of Solids
		Flash Point
		pH
		Metals Digestion
		Mercury Digestion
		Total RCRA8 Metals
		Total Mercury

Client Project Number: A2100160 **Location:** West River Bridge - CT

Laboratory ID	Client Sample ID	Analyses Requested
AD33532	P3-1 (5-7)	Polychlorinated Biphenyls by GC
		% Solids
AD33533	P3-1 (15-17)	Extractable TPH
		Ultrasonic Extraction
		SPLP Extraction for Metals
		Metals Digestion on Leachate
		Mercury Digestion on Leachate
		SPLP RCRA8 Metals
		SPLP Mercury
		VOCs by GC/MS
		VOC Extraction (solid)
		Metals Digestion
		Mercury Digestion
		Total RCRA8 Metals
		Total Mercury
		% Solids
AD33534	P3-1 (25-27)	Extractable TPH
		Ultrasonic Extraction
		SPLP Extraction for Metals
		Metals Digestion on Leachate
		Mercury Digestion on Leachate
		SPLP RCRA8 Metals
		SPLP Mercury
		VOCs by GC/MS
		VOC Extraction (solid)
		Metals Digestion
		Mercury Digestion
		Total RCRA8 Metals
		Total Mercury
		% Solids
AD33535	P3-1 (30-32)	Extractable TPH
		Ultrasonic Extraction
		SPLP Extraction for Metals
		Metals Digestion on Leachate
		Mercury Digestion on Leachate

11 Almgren Drive • Agawam, Massachusetts 01001 • 1-800-789-9115 • 413-789-9018 • Fax 413-789-4076

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

Client Project Number: A2100160 **Location:** West River Bridge - CT

Laboratory ID	Client Sample ID	Analyses Requested
AD33535	P3-1 (30-32)	SPLP RCRA8 Metals
		SPLP Mercury
		VOCs by GC/MS
		VOC Extraction (solid)
		Metals Digestion
		Mercury Digestion
		Total RCRA8 Metals
		Total Mercury
		% Solids
AD33536	P3-1 (35-37)	Extractable TPH
		Ultrasonic Extraction
		SPLP Extraction for Metals
		Metals Digestion on Leachate
		Mercury Digestion on Leachate
		SPLP RCRA8 Metals
		SPLP Mercury
		VOCs by GC/MS
		VOC Extraction (solid)
		Metals Digestion
		Mercury Digestion
		Total RCRA8 Metals
		Total Mercury
		% Solids

11 Almgren Drive • Agawam, Massachusetts 01001 • 1-800-789-9115 • 413-789-9018 • Fax 413-789-4076

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

Client Project Number: A2100160 **Location:** West River Bridge - CT

Laboratory ID	Client Sample ID	Analyses Requested

I attest that all information contained within this report has been reviewed for accuracy and checked against all quality control requirements outlined in each applicable method and meet the requirements of NELAC including any data obtained from a subcontract laboratory. Please note that all solid matrix sample results are calculated on a dry weight basis unless otherwise specified.

This report may not be reproduced, except in full, without written approval from Spectrum Analytical, Inc.

Authorized by:

Hanibal C. Tayeh, Ph.D.
President/Laboratory Director

11 Almgren Drive • Agawam, Massachusetts 01001 • 1-800-789-9115 • 413-789-9018 • Fax 413-789-4076

SPECTRUM ANALYTICAL, INC.

Laboratory Report

RECEIVED
AUG 23 2002
CONSULTING ENVIRONMENTAL ENGINEERS, INC.

Location: West River Bridge - CT
Client: CEE
Lab ID No: AD33531
Client Id: P3-1 (0-2)

Client Project No: A2100160
Submittal Date: 8/13/2002
Collection Date: 8/9/2002
Matrix Sediment

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VOC Preparation						
VOC Extraction (solid)	Field ext			8/9/2002		SW846 5035
Volatile Organic Compounds						
VOCs by GC/MS						
Acetone	Below det lim	ug/Kg	4440	8/15/2002	RLJ	SW846 8260B
Acrylonitrile	Below det lim	ug/Kg	222	8/15/2002	RLJ	SW846 8260B
Benzene	Below det lim	ug/Kg	222	8/15/2002	RLJ	SW846 8260B
Bromobenzene	Below det lim	ug/Kg	222	8/15/2002	RLJ	SW846 8260B
Bromochloromethane	Below det lim	ug/Kg	222	8/15/2002	RLJ	SW846 8260B
Bromodichloromethane	Below det lim	ug/Kg	222	8/15/2002	RLJ	SW846 8260B
Bromoform	Below det lim	ug/Kg	222	8/15/2002	RLJ	SW846 8260B
Bromomethane	Below det lim	ug/Kg	444	8/15/2002	RLJ	SW846 8260B
2-Butanone (MEK)	Below det lim	ug/Kg	2220	8/15/2002	RLJ	SW846 8260B
n-Butylbenzene	Below det lim	ug/Kg	222	8/15/2002	RLJ	SW846 8260B
sec-Butylbenzene	Below det lim	ug/Kg	222	8/15/2002	RLJ	SW846 8260B
tert-Butylbenzene	Below det lim	ug/Kg	222	8/15/2002	RLJ	SW846 8260B
Carbon disulfide	Below det lim	ug/Kg	1110	8/15/2002	RLJ	SW846 8260B
Carbon tetrachloride	Below det lim	ug/Kg	222	8/15/2002	RLJ	SW846 8260B
Chlorobenzene	Below det lim	ug/Kg	222	8/15/2002	RLJ	SW846 8260B
Chloroethane	Below det lim	ug/Kg	444	8/15/2002	RLJ	SW846 8260B
Chloroform	Below det lim	ug/Kg	222	8/15/2002	RLJ	SW846 8260B
Chloromethane	Below det lim	ug/Kg	444	8/15/2002	RLJ	SW846 8260B
2-Chlorotoluene	Below det lim	ug/Kg	222	8/15/2002	RLJ	SW846 8260B
4-Chlorotoluene	Below det lim	ug/Kg	222	8/15/2002	RLJ	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	Below det lim	ug/Kg	444	8/15/2002	RLJ	SW846 8260B
Dibromochloromethane	Below det lim	ug/Kg	222	8/15/2002	RLJ	SW846 8260B
1,2-Dibromoethane (EDB)	Below det lim	ug/Kg	222	8/15/2002	RLJ	SW846 8260B
Dibromomethane	Below det lim	ug/Kg	222	8/15/2002	RLJ	SW846 8260B
1,2-Dichlorobenzene	Below det lim	ug/Kg	222	8/15/2002	RLJ	SW846 8260B
1,3-Dichlorobenzene	Below det lim	ug/Kg	222	8/15/2002	RLJ	SW846 8260B
1,4-Dichlorobenzene	Below det lim	ug/Kg	222	8/15/2002	RLJ	SW846 8260B
Dichlorodifluoromethane	Below det lim	ug/Kg	444	8/15/2002	RLJ	SW846 8260B
1,1-Dichloroethane	Below det lim	ug/Kg	222	8/15/2002	RLJ	SW846 8260B
1,2-Dichloroethane	Below det lim	ug/Kg	222	8/15/2002	RLJ	SW846 8260B
1,1-Dichloroethene	Below det lim	ug/Kg	222	8/15/2002	RLJ	SW846 8260B
cis-1,2-Dichloroethene	Below det lim	ug/Kg	222	8/15/2002	RLJ	SW846 8260B
trans-1,2-Dichloroethene	Below det lim	ug/Kg	222	8/15/2002	RLJ	SW846 8260B

Lab ID No: AD33531
Client Id: P3-1 (0-2)

Collection Date: 8/9/2002
Matrix Sediment

Parameter	Results	Units	PQL	Start Date	Analyst	Method
1,2-Dichloropropane	Below det lim	ug/Kg	222	8/15/2002	RLJ	SW846 8260B
1,3-Dichloropropane	Below det lim	ug/Kg	222	8/15/2002	RLJ	SW846 8260B
2,2-Dichloropropane	Below det lim	ug/Kg	222	8/15/2002	RLJ	SW846 8260B
1,1-Dichloropropene	Below det lim	ug/Kg	222	8/15/2002	RLJ	SW846 8260B
cis-1,3-Dichloropropene	Below det lim	ug/Kg	222	8/15/2002	RLJ	SW846 8260B
trans-1,3-Dichloropropene	Below det lim	ug/Kg	222	8/15/2002	RLJ	SW846 8260B
Ethylbenzene	Below det lim	ug/Kg	222	8/15/2002	RLJ	SW846 8260B
Hexachlorobutadiene	Below det lim	ug/Kg	222	8/15/2002	RLJ	SW846 8260B
2-Hexanone (MBK)	Below det lim	ug/Kg	2220	8/15/2002	RLJ	SW846 8260B
Isopropylbenzene	Below det lim	ug/Kg	222	8/15/2002	RLJ	SW846 8260B
4-Isopropyltoluene	Below det lim	ug/Kg	222	8/15/2002	RLJ	SW846 8260B
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/Kg	222	8/15/2002	RLJ	SW846 8260B
4-Methyl-2-pentanone (MIBK)	Below det lim	ug/Kg	2220	8/15/2002	RLJ	SW846 8260B
Methylene chloride	Below det lim	ug/Kg	222	8/15/2002	RLJ	SW846 8260B
Naphthalene	Below det lim	ug/Kg	222	8/15/2002	RLJ	SW846 8260B
n-Propylbenzene	Below det lim	ug/Kg	222	8/15/2002	RLJ	SW846 8260B
Styrene	Below det lim	ug/Kg	222	8/15/2002	RLJ	SW846 8260B
1,1,1,2-Tetrachloroethane	Below det lim	ug/Kg	222	8/15/2002	RLJ	SW846 8260B
1,1,2,2-Tetrachloroethane	Below det lim	ug/Kg	222	8/15/2002	RLJ	SW846 8260B
Tetrachloroethene (PCE)	Below det lim	ug/Kg	222	8/15/2002	RLJ	SW846 8260B
Toluene	Below det lim	ug/Kg	222	8/15/2002	RLJ	SW846 8260B
1,2,3-Trichlorobenzene	Below det lim	ug/Kg	222	8/15/2002	RLJ	SW846 8260B
1,2,4-Trichlorobenzene	Below det lim	ug/Kg	222	8/15/2002	RLJ	SW846 8260B
1,1,1-Trichloroethane	Below det lim	ug/Kg	222	8/15/2002	RLJ	SW846 8260B
1,1,2-Trichloroethane	Below det lim	ug/Kg	222	8/15/2002	RLJ	SW846 8260B
Trichloroethene (TCE)	Below det lim	ug/Kg	222	8/15/2002	RLJ	SW846 8260B
Trichlorofluoromethane	Below det lim	ug/Kg	222	8/15/2002	RLJ	SW846 8260B
1,2,3-Trichloropropane	Below det lim	ug/Kg	222	8/15/2002	RLJ	SW846 8260B
1,2,4-Trimethylbenzene	Below det lim	ug/Kg	222	8/15/2002	RLJ	SW846 8260B
1,3,5-Trimethylbenzene	Below det lim	ug/Kg	222	8/15/2002	RLJ	SW846 8260B
Vinyl chloride	Below det lim	ug/Kg	222	8/15/2002	RLJ	SW846 8260B
m,p-Xylenes	Below det lim	ug/Kg	444	8/15/2002	RLJ	SW846 8260B
o-Xylene	Below det lim	ug/Kg	222	8/15/2002	RLJ	SW846 8260B
4-Bromofluorobenzene (%SR)	92	ug/Kg	0.000	8/15/2002	RLJ	SW846 8260B
1,4-Difluorobenzene (%SR)	110	ug/Kg	0.000	8/15/2002	RLJ	SW846 8260B
Chlorobenzene-d5 (%SR)	104	ug/Kg	0.000	8/15/2002	RLJ	SW846 8260B
TPH Preparation						
Ultrasonic Extraction	Completed			8/19/2002	RT	SW846 3550B
Petroleum Hydrocarbon Analysis						
Extractable TPH						
Total Petroleum Hydrocarbons (C9-C36)	Below det lim	mg/Kg	30	8/19/2002	JD	CT ETPH
Gasoline	Below det lim	mg/Kg	30	8/19/2002	JD	CT ETPH

Lab ID No: AD33531 **Collection Date:** 8/9/2002
Client Id: P3-1 (0-2) **Matrix** Sediment

Parameter	Results	Units	PQL	Start Date		Analyst	Method
Fuel Oil #2	Below det lim	mg/Kg	30	8/19/2002		JD	CT ETPH
Fuel Oil #4	Below det lim	mg/Kg	30	8/19/2002		JD	CT ETPH
Fuel Oil #6	Below det lim	mg/Kg	30	8/19/2002		JD	CT ETPH
Motor Oil	Below det lim	mg/Kg	30	8/19/2002		JD	CT ETPH
Aviation Fuel	Below det lim	mg/Kg	30	8/19/2002		JD	CT ETPH
Unidentified	Below det lim	mg/Kg	30	8/19/2002		JD	CT ETPH
Other Oil	Below det lim	mg/Kg	30	8/19/2002		JD	CT ETPH
1-Chloro-octadecane (%SR)	73	mg/Kg	0.	8/19/2002		JD	CT ETPH
SVOC Preparation							
Ultrasonic Extraction	Completed			8/19/2002		RT	SW846 3550B
Semivolatile Organic Compounds							
Polychlorinated Biphenyls by GC							
PCB-1016	Below det lim	ug/Kg	77	8/19/2002		TG	SW846 8082
PCB-1221	Below det lim	ug/Kg	77	8/19/2002		TG	SW846 8082
PCB-1232	Below det lim	ug/Kg	77	8/19/2002		TG	SW846 8082
PCB-1242	Below det lim	ug/Kg	77	8/19/2002		TG	SW846 8082
PCB-1248	Below det lim	ug/Kg	77	8/19/2002		TG	SW846 8082
PCB-1254	Below det lim	ug/Kg	77	8/19/2002		TG	SW846 8082
PCB-1260	Below det lim	ug/Kg	77	8/19/2002		TG	SW846 8082
Decachlorobiphenyl (%SR)	83	ug/Kg	0.00	8/19/2002		TG	SW846 8082
Metals Preparation							
Mercury Digestion	Completed			8/19/2002		RB	EPA 245.1
Metals Digestion	Completed			8/19/2002		RB	EPA 200.7
Metals Analysis							
Total RCRA8 Metals							
Total Arsenic	Below det lim	mg/Kg	4.58	8/20/2002		KSE	EPA 200.7
Total Barium	25.4	mg/Kg	1.53	8/20/2002		KSE	EPA 200.7
Total Cadmium	Below det lim	mg/Kg	0.763	8/20/2002		KSE	EPA 200.7
Total Chromium	22.6	mg/Kg	1.53	8/20/2002		KSE	EPA 200.7
Total Lead	24.3	mg/Kg	2.29	8/20/2002		KSE	EPA 200.7
Total Selenium	Below det lim	mg/Kg	5.80	8/20/2002		KSE	EPA 200.7
Total Silver	Below det lim	mg/Kg	3.05	8/20/2002		KSE	EPA 200.7
Total Mercury	Below det lim	mg/Kg	0.307	8/20/2002		EPE	EPA 245.1
General Chemistry							
Flash Point	>200	degree F	200	8/15/2002	7:00	JC	SW846 1010
Ignitability of Solids	Negative	pos/neg		8/15/2002	7:00	JC	SW846 1030
pH	7.96@21.5	pH Units		8/15/2002	7:00	JC	SW846 9045
% Solids	55.3	%		8/16/2002		AW	SM2540 B Mod

Lab ID No: AD33532 **Collection Date:** 8/9/2002
Client Id: P3-1 (5-7) **Matrix** Sediment

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VOC Preparation						
VOC Extraction (solid)	Field ext			8/9/2002		SW846 5035
Volatile Organic Compounds						
VOCs by GC/MS						
Acetone	Below det lim	ug/Kg	2280	8/15/2002	RLJ	SW846 8260B
Acrylonitrile	Below det lim	ug/Kg	114	8/15/2002	RLJ	SW846 8260B
Benzene	Below det lim	ug/Kg	114	8/15/2002	RLJ	SW846 8260B
Bromobenzene	Below det lim	ug/Kg	114	8/15/2002	RLJ	SW846 8260B
Bromochloromethane	Below det lim	ug/Kg	114	8/15/2002	RLJ	SW846 8260B
Bromodichloromethane	Below det lim	ug/Kg	114	8/15/2002	RLJ	SW846 8260B
Bromoform	Below det lim	ug/Kg	114	8/15/2002	RLJ	SW846 8260B
Bromomethane	Below det lim	ug/Kg	228	8/15/2002	RLJ	SW846 8260B
2-Butanone (MEK)	Below det lim	ug/Kg	1140	8/15/2002	RLJ	SW846 8260B
n-Butylbenzene	Below det lim	ug/Kg	114	8/15/2002	RLJ	SW846 8260B
sec-Butylbenzene	Below det lim	ug/Kg	114	8/15/2002	RLJ	SW846 8260B
tert-Butylbenzene	Below det lim	ug/Kg	114	8/15/2002	RLJ	SW846 8260B
Carbon disulfide	Below det lim	ug/Kg	570	8/15/2002	RLJ	SW846 8260B
Carbon tetrachloride	Below det lim	ug/Kg	114	8/15/2002	RLJ	SW846 8260B
Chlorobenzene	Below det lim	ug/Kg	114	8/15/2002	RLJ	SW846 8260B
Chloroethane	Below det lim	ug/Kg	228	8/15/2002	RLJ	SW846 8260B
Chloroform	Below det lim	ug/Kg	114	8/15/2002	RLJ	SW846 8260B
Chloromethane	Below det lim	ug/Kg	228	8/15/2002	RLJ	SW846 8260B
2-Chlorotoluene	Below det lim	ug/Kg	114	8/15/2002	RLJ	SW846 8260B
4-Chlorotoluene	Below det lim	ug/Kg	114	8/15/2002	RLJ	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	Below det lim	ug/Kg	228	8/15/2002	RLJ	SW846 8260B
Dibromochloromethane	Below det lim	ug/Kg	114	8/15/2002	RLJ	SW846 8260B
1,2-Dibromoethane (EDB)	Below det lim	ug/Kg	114	8/15/2002	RLJ	SW846 8260B
Dibromomethane	Below det lim	ug/Kg	114	8/15/2002	RLJ	SW846 8260B
1,2-Dichlorobenzene	Below det lim	ug/Kg	114	8/15/2002	RLJ	SW846 8260B
1,3-Dichlorobenzene	Below det lim	ug/Kg	114	8/15/2002	RLJ	SW846 8260B
1,4-Dichlorobenzene	Below det lim	ug/Kg	114	8/15/2002	RLJ	SW846 8260B
Dichlorodifluoromethane	Below det lim	ug/Kg	228	8/15/2002	RLJ	SW846 8260B
1,1-Dichloroethane	Below det lim	ug/Kg	114	8/15/2002	RLJ	SW846 8260B
1,2-Dichloroethane	Below det lim	ug/Kg	114	8/15/2002	RLJ	SW846 8260B
1,1-Dichloroethene	Below det lim	ug/Kg	114	8/15/2002	RLJ	SW846 8260B
cis-1,2-Dichloroethene	Below det lim	ug/Kg	114	8/15/2002	RLJ	SW846 8260B
trans-1,2-Dichloroethene	Below det lim	ug/Kg	114	8/15/2002	RLJ	SW846 8260B
1,2-Dichloropropane	Below det lim	ug/Kg	114	8/15/2002	RLJ	SW846 8260B
1,3-Dichloropropane	Below det lim	ug/Kg	114	8/15/2002	RLJ	SW846 8260B
2,2-Dichloropropane	Below det lim	ug/Kg	114	8/15/2002	RLJ	SW846 8260B
1,1-Dichloropropene	Below det lim	ug/Kg	114	8/15/2002	RLJ	SW846 8260B
cis-1,3-Dichloropropene	Below det lim	ug/Kg	114	8/15/2002	RLJ	SW846 8260B

Lab ID No: AD33532 **Collection Date:** 8/9/2002
Client Id: P3-1 (5-7) **Matrix** Sediment

Parameter	Results	Units	PQL	Start Date	Analyst	Method
trans-1,3-Dichloropropene	Below det lim	ug/Kg	114	8/15/2002	RLJ	SW846 8260B
Ethylbenzene	Below det lim	ug/Kg	114	8/15/2002	RLJ	SW846 8260B
Hexachlorobutadiene	Below det lim	ug/Kg	114	8/15/2002	RLJ	SW846 8260B
2-Hexanone (MBK)	Below det lim	ug/Kg	1140	8/15/2002	RLJ	SW846 8260B
Isopropylbenzene	Below det lim	ug/Kg	114	8/15/2002	RLJ	SW846 8260B
4-Isopropyltoluene	Below det lim	ug/Kg	114	8/15/2002	RLJ	SW846 8260B
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/Kg	114	8/15/2002	RLJ	SW846 8260B
4-Methyl-2-pentanone (MIBK)	Below det lim	ug/Kg	1140	8/15/2002	RLJ	SW846 8260B
Methylene chloride	Below det lim	ug/Kg	114	8/15/2002	RLJ	SW846 8260B
Naphthalene	Below det lim	ug/Kg	114	8/15/2002	RLJ	SW846 8260B
n-Propylbenzene	Below det lim	ug/Kg	114	8/15/2002	RLJ	SW846 8260B
Styrene	Below det lim	ug/Kg	114	8/15/2002	RLJ	SW846 8260B
1,1,1,2-Tetrachloroethane	Below det lim	ug/Kg	114	8/15/2002	RLJ	SW846 8260B
1,1,2,2-Tetrachloroethane	Below det lim	ug/Kg	114	8/15/2002	RLJ	SW846 8260B
Tetrachloroethene (PCE)	Below det lim	ug/Kg	114	8/15/2002	RLJ	SW846 8260B
Toluene	Below det lim	ug/Kg	114	8/15/2002	RLJ	SW846 8260B
1,2,3-Trichlorobenzene	Below det lim	ug/Kg	114	8/15/2002	RLJ	SW846 8260B
1,2,4-Trichlorobenzene	Below det lim	ug/Kg	114	8/15/2002	RLJ	SW846 8260B
1,1,1-Trichloroethane	Below det lim	ug/Kg	114	8/15/2002	RLJ	SW846 8260B
1,1,2-Trichloroethane	Below det lim	ug/Kg	114	8/15/2002	RLJ	SW846 8260B
Trichloroethene (TCE)	Below det lim	ug/Kg	114	8/15/2002	RLJ	SW846 8260B
Trichlorofluoromethane	Below det lim	ug/Kg	114	8/15/2002	RLJ	SW846 8260B
1,2,3-Trichloropropane	Below det lim	ug/Kg	114	8/15/2002	RLJ	SW846 8260B
1,2,4-Trimethylbenzene	Below det lim	ug/Kg	114	8/15/2002	RLJ	SW846 8260B
1,3,5-Trimethylbenzene	Below det lim	ug/Kg	114	8/15/2002	RLJ	SW846 8260B
Vinyl chloride	Below det lim	ug/Kg	114	8/15/2002	RLJ	SW846 8260B
m,p-Xylenes	Below det lim	ug/Kg	228	8/15/2002	RLJ	SW846 8260B
o-Xylene	Below det lim	ug/Kg	114	8/15/2002	RLJ	SW846 8260B
4-Bromofluorobenzene (%SR)	89	ug/Kg	0.000	8/15/2002	RLJ	SW846 8260B
1,4-Difluorobenzene (%SR)	110	ug/Kg	0.000	8/15/2002	RLJ	SW846 8260B
Chlorobenzene-d5 (%SR)	104	ug/Kg	0.000	8/15/2002	RLJ	SW846 8260B
TPH Preparation						
Ultrasonic Extraction	Completed			8/19/2002	RT	SW846 3550B
Petroleum Hydrocarbon Analysis						
Extractable TPH						
Total Petroleum Hydrocarbons (C9-C36)	Below det lim	mg/Kg	30	8/19/2002	JD	CT ETPH
Gasoline	Below det lim	mg/Kg	30	8/19/2002	JD	CT ETPH
Fuel Oil #2	Below det lim	mg/Kg	30	8/19/2002	JD	CT ETPH
Fuel Oil #4	Below det lim	mg/Kg	30	8/19/2002	JD	CT ETPH
Fuel Oil #6	Below det lim	mg/Kg	30	8/19/2002	JD	CT ETPH
Motor Oil	Below det lim	mg/Kg	30	8/19/2002	JD	CT ETPH
Aviation Fuel	Below det lim	mg/Kg	30	8/19/2002	JD	CT ETPH

Lab ID No: AD33532 **Collection Date:** 8/9/2002
Client Id: P3-1 (5-7) **Matrix** Sediment

Parameter	Results	Units	PQL	Start Date		Analyst	Method
Unidentified	Below det lim	mg/Kg	30	8/19/2002		JD	CT ETPH
Other Oil	Below det lim	mg/Kg	30	8/19/2002		JD	CT ETPH
1-Chloro-octadecane (%SR)	77	mg/Kg	0.	8/19/2002		JD	CT ETPH
SVOC Preparation							
Ultrasonic Extraction	Completed			8/19/2002		RT	SW846 3550B
Semivolatile Organic Compounds							
Polychlorinated Biphenyls by GC							
PCB-1016	Below det lim	ug/Kg	67	8/19/2002		TG	SW846 8082
PCB-1221	Below det lim	ug/Kg	67	8/19/2002		TG	SW846 8082
PCB-1232	Below det lim	ug/Kg	67	8/19/2002		TG	SW846 8082
PCB-1242	Below det lim	ug/Kg	67	8/19/2002		TG	SW846 8082
PCB-1248	Below det lim	ug/Kg	67	8/19/2002		TG	SW846 8082
PCB-1254	Below det lim	ug/Kg	67	8/19/2002		TG	SW846 8082
PCB-1260	Below det lim	ug/Kg	67	8/19/2002		TG	SW846 8082
Decachlorobiphenyl (%SR)	79	ug/Kg	0.00	8/19/2002		TG	SW846 8082
Metals Preparation							
Mercury Digestion	Completed			8/19/2002		RB	EPA 245.1
Metals Digestion	Completed			8/19/2002		RB	EPA 200.7
Metals Analysis							
Total RCRA8 Metals							
Total Arsenic	Below det lim	mg/Kg	4.45	8/20/2002		KSE	EPA 200.7
Total Barium	21.5	mg/Kg	1.48	8/20/2002		KSE	EPA 200.7
Total Cadmium	Below det lim	mg/Kg	0.742	8/20/2002		KSE	EPA 200.7
Total Chromium	29.2	mg/Kg	1.48	8/20/2002		KSE	EPA 200.7
Total Lead	26.8	mg/Kg	2.22	8/20/2002		KSE	EPA 200.7
Total Selenium	Below det lim	mg/Kg	6.66	8/20/2002		KSE	EPA 200.7
Total Silver	Below det lim	mg/Kg	2.97	8/20/2002		KSE	EPA 200.7
Total Mercury	Below det lim	mg/Kg	0.260	8/20/2002		EPE	EPA 245.1
General Chemistry							
Flash Point	>200	degree F	200	8/15/2002	7:00	JC	SW846 1010
Ignitability of Solids	Negative	pos/neg		8/15/2002	7:00	JC	SW846 1030
pH	7.98@21.2	pH Units		8/15/2002	7:00	JC	SW846 9045
% Solids	64.2	%		8/16/2002		AW	SM2540 B Mod

Lab ID No: AD33533 **Collection Date:** 8/9/2002
Client Id: P3-1 (15-17) **Matrix** Sediment

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VOC Preparation						
VOC Extraction (solid)	Field ext			8/9/2002		SW846 5035
Volatile Organic Compounds						
VOCs by GC/MS						
Acetone	Below det lim	ug/Kg	3560	8/15/2002	RLJ	SW846 8260B
Acrylonitrile	Below det lim	ug/Kg	178	8/15/2002	RLJ	SW846 8260B
Benzene	Below det lim	ug/Kg	178	8/15/2002	RLJ	SW846 8260B
Bromobenzene	Below det lim	ug/Kg	178	8/15/2002	RLJ	SW846 8260B
Bromochloromethane	Below det lim	ug/Kg	178	8/15/2002	RLJ	SW846 8260B
Bromodichloromethane	Below det lim	ug/Kg	178	8/15/2002	RLJ	SW846 8260B
Bromoform	Below det lim	ug/Kg	178	8/15/2002	RLJ	SW846 8260B
Bromomethane	Below det lim	ug/Kg	356	8/15/2002	RLJ	SW846 8260B
2-Butanone (MEK)	Below det lim	ug/Kg	1780	8/15/2002	RLJ	SW846 8260B
n-Butylbenzene	Below det lim	ug/Kg	178	8/15/2002	RLJ	SW846 8260B
sec-Butylbenzene	Below det lim	ug/Kg	178	8/15/2002	RLJ	SW846 8260B
tert-Butylbenzene	Below det lim	ug/Kg	178	8/15/2002	RLJ	SW846 8260B
Carbon disulfide	Below det lim	ug/Kg	890	8/15/2002	RLJ	SW846 8260B
Carbon tetrachloride	Below det lim	ug/Kg	178	8/15/2002	RLJ	SW846 8260B
Chlorobenzene	Below det lim	ug/Kg	178	8/15/2002	RLJ	SW846 8260B
Chloroethane	Below det lim	ug/Kg	356	8/15/2002	RLJ	SW846 8260B
Chloroform	Below det lim	ug/Kg	178	8/15/2002	RLJ	SW846 8260B
Chloromethane	Below det lim	ug/Kg	356	8/15/2002	RLJ	SW846 8260B
2-Chlorotoluene	Below det lim	ug/Kg	178	8/15/2002	RLJ	SW846 8260B
4-Chlorotoluene	Below det lim	ug/Kg	178	8/15/2002	RLJ	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	Below det lim	ug/Kg	356	8/15/2002	RLJ	SW846 8260B
Dibromochloromethane	Below det lim	ug/Kg	178	8/15/2002	RLJ	SW846 8260B
1,2-Dibromoethane (EDB)	Below det lim	ug/Kg	178	8/15/2002	RLJ	SW846 8260B
Dibromomethane	Below det lim	ug/Kg	178	8/15/2002	RLJ	SW846 8260B
1,2-Dichlorobenzene	Below det lim	ug/Kg	178	8/15/2002	RLJ	SW846 8260B
1,3-Dichlorobenzene	Below det lim	ug/Kg	178	8/15/2002	RLJ	SW846 8260B
1,4-Dichlorobenzene	Below det lim	ug/Kg	178	8/15/2002	RLJ	SW846 8260B
Dichlorodifluoromethane	Below det lim	ug/Kg	356	8/15/2002	RLJ	SW846 8260B
1,1-Dichloroethane	Below det lim	ug/Kg	178	8/15/2002	RLJ	SW846 8260B
1,2-Dichloroethane	Below det lim	ug/Kg	178	8/15/2002	RLJ	SW846 8260B
1,1-Dichloroethene	Below det lim	ug/Kg	178	8/15/2002	RLJ	SW846 8260B
cis-1,2-Dichloroethene	Below det lim	ug/Kg	178	8/15/2002	RLJ	SW846 8260B
trans-1,2-Dichloroethene	Below det lim	ug/Kg	178	8/15/2002	RLJ	SW846 8260B
1,2-Dichloropropane	Below det lim	ug/Kg	178	8/15/2002	RLJ	SW846 8260B
1,3-Dichloropropane	Below det lim	ug/Kg	178	8/15/2002	RLJ	SW846 8260B
2,2-Dichloropropane	Below det lim	ug/Kg	178	8/15/2002	RLJ	SW846 8260B
1,1-Dichloropropene	Below det lim	ug/Kg	178	8/15/2002	RLJ	SW846 8260B
cis-1,3-Dichloropropene	Below det lim	ug/Kg	178	8/15/2002	RLJ	SW846 8260B

Lab ID No: AD33533 **Collection Date:** 8/9/2002
Client Id: P3-1 (15-17) **Matrix** Sediment

Parameter	Results	Units	PQL	Start Date	Analyst	Method
trans-1,3-Dichloropropene	Below det lim	ug/Kg	178	8/15/2002	RLJ	SW846 8260B
Ethylbenzene	Below det lim	ug/Kg	178	8/15/2002	RLJ	SW846 8260B
Hexachlorobutadiene	Below det lim	ug/Kg	178	8/15/2002	RLJ	SW846 8260B
2-Hexanone (MBK)	Below det lim	ug/Kg	1780	8/15/2002	RLJ	SW846 8260B
Isopropylbenzene	Below det lim	ug/Kg	178	8/15/2002	RLJ	SW846 8260B
4-Isopropyltoluene	Below det lim	ug/Kg	178	8/15/2002	RLJ	SW846 8260B
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/Kg	178	8/15/2002	RLJ	SW846 8260B
4-Methyl-2-pentanone (MIBK)	Below det lim	ug/Kg	1780	8/15/2002	RLJ	SW846 8260B
Methylene chloride	Below det lim	ug/Kg	178	8/15/2002	RLJ	SW846 8260B
Naphthalene	Below det lim	ug/Kg	178	8/15/2002	RLJ	SW846 8260B
n-Propylbenzene	Below det lim	ug/Kg	178	8/15/2002	RLJ	SW846 8260B
Styrene	Below det lim	ug/Kg	178	8/15/2002	RLJ	SW846 8260B
1,1,1,2-Tetrachloroethane	Below det lim	ug/Kg	178	8/15/2002	RLJ	SW846 8260B
1,1,2,2-Tetrachloroethane	Below det lim	ug/Kg	178	8/15/2002	RLJ	SW846 8260B
Tetrachloroethene (PCE)	Below det lim	ug/Kg	178	8/15/2002	RLJ	SW846 8260B
Toluene	Below det lim	ug/Kg	178	8/15/2002	RLJ	SW846 8260B
1,2,3-Trichlorobenzene	Below det lim	ug/Kg	178	8/15/2002	RLJ	SW846 8260B
1,2,4-Trichlorobenzene	Below det lim	ug/Kg	178	8/15/2002	RLJ	SW846 8260B
1,1,1-Trichloroethane	Below det lim	ug/Kg	178	8/15/2002	RLJ	SW846 8260B
1,1,2-Trichloroethane	Below det lim	ug/Kg	178	8/15/2002	RLJ	SW846 8260B
Trichloroethene (TCE)	Below det lim	ug/Kg	178	8/15/2002	RLJ	SW846 8260B
Trichlorofluoromethane	Below det lim	ug/Kg	178	8/15/2002	RLJ	SW846 8260B
1,2,3-Trichloropropane	Below det lim	ug/Kg	178	8/15/2002	RLJ	SW846 8260B
1,2,4-Trimethylbenzene	Below det lim	ug/Kg	178	8/15/2002	RLJ	SW846 8260B
1,3,5-Trimethylbenzene	Below det lim	ug/Kg	178	8/15/2002	RLJ	SW846 8260B
Vinyl chloride	Below det lim	ug/Kg	178	8/15/2002	RLJ	SW846 8260B
m,p-Xylenes	Below det lim	ug/Kg	356	8/15/2002	RLJ	SW846 8260B
o-Xylene	Below det lim	ug/Kg	178	8/15/2002	RLJ	SW846 8260B
4-Bromofluorobenzene (%SR)	91	ug/Kg	0.000	8/15/2002	RLJ	SW846 8260B
1,4-Difluorobenzene (%SR)	107	ug/Kg	0.000	8/15/2002	RLJ	SW846 8260B
Chlorobenzene-d5 (%SR)	101	ug/Kg	0.000	8/15/2002	RLJ	SW846 8260B
TPH Preparation						
Ultrasonic Extraction	Completed			8/19/2002	RT	SW846 3550B
Petroleum Hydrocarbon Analysis						
Extractable TPH						
Total Petroleum Hydrocarbons (C9-C36)	Below det lim	mg/Kg	40	8/19/2002	JD	CT ETPH
Gasoline	Below det lim	mg/Kg	40	8/19/2002	JD	CT ETPH
Fuel Oil #2	Below det lim	mg/Kg	40	8/19/2002	JD	CT ETPH
Fuel Oil #4	Below det lim	mg/Kg	40	8/19/2002	JD	CT ETPH
Fuel Oil #6	Below det lim	mg/Kg	40	8/19/2002	JD	CT ETPH
Motor Oil	Below det lim	mg/Kg	40	8/19/2002	JD	CT ETPH
Aviation Fuel	Below det lim	mg/Kg	40	8/19/2002	JD	CT ETPH

Lab ID No: AD33533 **Collection Date:** 8/9/2002
Client Id: P3-1 (15-17) **Matrix** Sediment

Parameter	Results	Units	PQL	Start Date	Analyst	Method
Unidentified	Below det lim	mg/Kg	40	8/19/2002	JD	CT ETPH
Other Oil	Below det lim	mg/Kg	40	8/19/2002	JD	CT ETPH
1-Chloro-octadecane (%SR)	70	mg/Kg	0.	8/19/2002	JD	CT ETPH
Metals Preparation						
Mercury Digestion	Completed			8/19/2002	RB	EPA 245.1
Mercury Digestion on Leachate	Completed			8/17/2002	EP	EPA 245.1
Metals Digestion	Completed			8/19/2002	RB	EPA 200.7
Metals Digestion on Leachate	Completed			8/17/2002	EP	EPA 200.7
Metals Analysis						
SPLP RCRA8 Metals						
SPLP Arsenic	Below det lim	mg/L	0.015	8/20/2002	KSE	1312/200.7
SPLP Barium	0.0547	mg/L	0.005	8/20/2002	KSE	1312/200.7
SPLP Cadmium	Below det lim	mg/L	0.0025	8/20/2002	KSE	1312/200.7
SPLP Chromium	0.0113	mg/L	0.005	8/20/2002	KSE	1312/200.7
SPLP Lead	Below det lim	mg/L	0.0075	8/20/2002	KSE	1312/200.7
SPLP Selenium	Below det lim	mg/L	0.015	8/20/2002	KSE	1312/200.7
SPLP Silver	Below det lim	mg/L	0.010	8/20/2002	KSE	1312/200.7
SPLP Mercury	Below det lim	mg/L	0.0004	8/20/2002	EPE	1312/245.1
Total RCRA8 Metals						
Total Arsenic	Below det lim	mg/Kg	5.08	8/20/2002	KSE	EPA 200.7
Total Barium	36.6	mg/Kg	1.69	8/20/2002	KSE	EPA 200.7
Total Cadmium	Below det lim	mg/Kg	0.846	8/20/2002	KSE	EPA 200.7
Total Chromium	35.8	mg/Kg	1.69	8/20/2002	KSE	EPA 200.7
Total Lead	26.2	mg/Kg	2.54	8/20/2002	KSE	EPA 200.7
Total Selenium	Below det lim	mg/Kg	11.1	8/20/2002	KSE	EPA 200.7
Total Silver	Below det lim	mg/Kg	3.38	8/20/2002	KSE	EPA 200.7
Total Mercury	Below det lim	mg/Kg	0.326	8/20/2002	EPE	EPA 245.1
TCLP/SPLP Preparation						
SPLP Extraction for Metals	Completed			8/15/2002	HB	SW846 1312
% Solids	51.5	%		8/16/2002	AW	SM2540 B Mod

Lab ID No: AD33534 **Collection Date:** 8/9/2002
Client Id: P3-1 (25-27) **Matrix** Sediment

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VOC Preparation						
VOC Extraction (solid)	Field ext			8/9/2002		SW846 5035
Volatile Organic Compounds						
VOCs by GC/MS						
Acetone	Below det lim	ug/Kg	4300	8/15/2002	RLJ	SW846 8260B
Acrylonitrile	Below det lim	ug/Kg	215	8/15/2002	RLJ	SW846 8260B
Benzene	Below det lim	ug/Kg	215	8/15/2002	RLJ	SW846 8260B
Bromobenzene	Below det lim	ug/Kg	215	8/15/2002	RLJ	SW846 8260B
Bromochloromethane	Below det lim	ug/Kg	215	8/15/2002	RLJ	SW846 8260B
Bromodichloromethane	Below det lim	ug/Kg	215	8/15/2002	RLJ	SW846 8260B
Bromoform	Below det lim	ug/Kg	215	8/15/2002	RLJ	SW846 8260B
Bromomethane	Below det lim	ug/Kg	430	8/15/2002	RLJ	SW846 8260B
2-Butanone (MEK)	Below det lim	ug/Kg	2150	8/15/2002	RLJ	SW846 8260B
n-Butylbenzene	Below det lim	ug/Kg	215	8/15/2002	RLJ	SW846 8260B
sec-Butylbenzene	Below det lim	ug/Kg	215	8/15/2002	RLJ	SW846 8260B
tert-Butylbenzene	Below det lim	ug/Kg	215	8/15/2002	RLJ	SW846 8260B
Carbon disulfide	Below det lim	ug/Kg	1080	8/15/2002	RLJ	SW846 8260B
Carbon tetrachloride	Below det lim	ug/Kg	215	8/15/2002	RLJ	SW846 8260B
Chlorobenzene	Below det lim	ug/Kg	215	8/15/2002	RLJ	SW846 8260B
Chloroethane	Below det lim	ug/Kg	430	8/15/2002	RLJ	SW846 8260B
Chloroform	Below det lim	ug/Kg	215	8/15/2002	RLJ	SW846 8260B
Chloromethane	Below det lim	ug/Kg	430	8/15/2002	RLJ	SW846 8260B
2-Chlorotoluene	Below det lim	ug/Kg	215	8/15/2002	RLJ	SW846 8260B
4-Chlorotoluene	Below det lim	ug/Kg	215	8/15/2002	RLJ	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	Below det lim	ug/Kg	430	8/15/2002	RLJ	SW846 8260B
Dibromochloromethane	Below det lim	ug/Kg	215	8/15/2002	RLJ	SW846 8260B
1,2-Dibromoethane (EDB)	Below det lim	ug/Kg	215	8/15/2002	RLJ	SW846 8260B
Dibromomethane	Below det lim	ug/Kg	215	8/15/2002	RLJ	SW846 8260B
1,2-Dichlorobenzene	Below det lim	ug/Kg	215	8/15/2002	RLJ	SW846 8260B
1,3-Dichlorobenzene	Below det lim	ug/Kg	215	8/15/2002	RLJ	SW846 8260B
1,4-Dichlorobenzene	Below det lim	ug/Kg	215	8/15/2002	RLJ	SW846 8260B
Dichlorodifluoromethane	Below det lim	ug/Kg	430	8/15/2002	RLJ	SW846 8260B
1,1-Dichloroethane	Below det lim	ug/Kg	215	8/15/2002	RLJ	SW846 8260B
1,2-Dichloroethane	Below det lim	ug/Kg	215	8/15/2002	RLJ	SW846 8260B
1,1-Dichloroethene	Below det lim	ug/Kg	215	8/15/2002	RLJ	SW846 8260B
cis-1,2-Dichloroethene	Below det lim	ug/Kg	215	8/15/2002	RLJ	SW846 8260B
trans-1,2-Dichloroethene	Below det lim	ug/Kg	215	8/15/2002	RLJ	SW846 8260B
1,2-Dichloropropane	Below det lim	ug/Kg	215	8/15/2002	RLJ	SW846 8260B
1,3-Dichloropropane	Below det lim	ug/Kg	215	8/15/2002	RLJ	SW846 8260B
2,2-Dichloropropane	Below det lim	ug/Kg	215	8/15/2002	RLJ	SW846 8260B
1,1-Dichloropropene	Below det lim	ug/Kg	215	8/15/2002	RLJ	SW846 8260B
cis-1,3-Dichloropropene	Below det lim	ug/Kg	215	8/15/2002	RLJ	SW846 8260B

Lab ID No: AD33534 **Collection Date:** 8/9/2002
Client Id: P3-1 (25-27) **Matrix** Sediment

Parameter	Results	Units	PQL	Start Date	Analyst	Method
trans-1,3-Dichloropropene	Below det lim	ug/Kg	215	8/15/2002	RLJ	SW846 8260B
Ethylbenzene	Below det lim	ug/Kg	215	8/15/2002	RLJ	SW846 8260B
Hexachlorobutadiene	Below det lim	ug/Kg	215	8/15/2002	RLJ	SW846 8260B
2-Hexanone (MBK)	Below det lim	ug/Kg	2150	8/15/2002	RLJ	SW846 8260B
Isopropylbenzene	Below det lim	ug/Kg	215	8/15/2002	RLJ	SW846 8260B
4-Isopropyltoluene	Below det lim	ug/Kg	215	8/15/2002	RLJ	SW846 8260B
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/Kg	215	8/15/2002	RLJ	SW846 8260B
4-Methyl-2-pentanone (MIBK)	Below det lim	ug/Kg	2150	8/15/2002	RLJ	SW846 8260B
Methylene chloride	Below det lim	ug/Kg	215	8/15/2002	RLJ	SW846 8260B
Naphthalene	Below det lim	ug/Kg	215	8/15/2002	RLJ	SW846 8260B
n-Propylbenzene	Below det lim	ug/Kg	215	8/15/2002	RLJ	SW846 8260B
Styrene	Below det lim	ug/Kg	215	8/15/2002	RLJ	SW846 8260B
1,1,1,2-Tetrachloroethane	Below det lim	ug/Kg	215	8/15/2002	RLJ	SW846 8260B
1,1,2,2-Tetrachloroethane	Below det lim	ug/Kg	215	8/15/2002	RLJ	SW846 8260B
Tetrachloroethene (PCE)	Below det lim	ug/Kg	215	8/15/2002	RLJ	SW846 8260B
Toluene	Below det lim	ug/Kg	215	8/15/2002	RLJ	SW846 8260B
1,2,3-Trichlorobenzene	Below det lim	ug/Kg	215	8/15/2002	RLJ	SW846 8260B
1,2,4-Trichlorobenzene	Below det lim	ug/Kg	215	8/15/2002	RLJ	SW846 8260B
1,1,1-Trichloroethane	Below det lim	ug/Kg	215	8/15/2002	RLJ	SW846 8260B
1,1,2-Trichloroethane	Below det lim	ug/Kg	215	8/15/2002	RLJ	SW846 8260B
Trichloroethene (TCE)	Below det lim	ug/Kg	215	8/15/2002	RLJ	SW846 8260B
Trichlorofluoromethane	Below det lim	ug/Kg	215	8/15/2002	RLJ	SW846 8260B
1,2,3-Trichloropropane	Below det lim	ug/Kg	215	8/15/2002	RLJ	SW846 8260B
1,2,4-Trimethylbenzene	Below det lim	ug/Kg	215	8/15/2002	RLJ	SW846 8260B
1,3,5-Trimethylbenzene	Below det lim	ug/Kg	215	8/15/2002	RLJ	SW846 8260B
Vinyl chloride	Below det lim	ug/Kg	215	8/15/2002	RLJ	SW846 8260B
m,p-Xylenes	Below det lim	ug/Kg	430	8/15/2002	RLJ	SW846 8260B
o-Xylene	Below det lim	ug/Kg	215	8/15/2002	RLJ	SW846 8260B
4-Bromofluorobenzene (%SR)	87	ug/Kg	0.000	8/15/2002	RLJ	SW846 8260B
1,4-Difluorobenzene (%SR)	109	ug/Kg	0.000	8/15/2002	RLJ	SW846 8260B
Chlorobenzene-d5 (%SR)	102	ug/Kg	0.000	8/15/2002	RLJ	SW846 8260B
TPH Preparation						
Ultrasonic Extraction	Completed			8/19/2002	RT	SW846 3550B
Petroleum Hydrocarbon Analysis						
Extractable TPH						
Total Petroleum Hydrocarbons (C9-C36)	Below det lim	mg/Kg	20	8/19/2002	JD	CT ETPH
Gasoline	Below det lim	mg/Kg	20	8/19/2002	JD	CT ETPH
Fuel Oil #2	Below det lim	mg/Kg	20	8/19/2002	JD	CT ETPH
Fuel Oil #4	Below det lim	mg/Kg	20	8/19/2002	JD	CT ETPH
Fuel Oil #6	Below det lim	mg/Kg	20	8/19/2002	JD	CT ETPH
Motor Oil	Below det lim	mg/Kg	20	8/19/2002	JD	CT ETPH
Aviation Fuel	Below det lim	mg/Kg	20	8/19/2002	JD	CT ETPH

Lab ID No: AD33534 **Collection Date:** 8/9/2002
Client Id: P3-1 (25-27) **Matrix** Sediment

Parameter	Results	Units	PQL	Start Date	Analyst	Method
Unidentified	Below det lim	mg/Kg	20	8/19/2002	JD	CT ETPH
Other Oil	Below det lim	mg/Kg	20	8/19/2002	JD	CT ETPH
1-Chloro-octadecane (%SR)	71	mg/Kg	0.	8/19/2002	JD	CT ETPH
Metals Preparation						
Mercury Digestion	Completed			8/19/2002	RB	EPA 245.1
Mercury Digestion on Leachate	Completed			8/19/2002	KS	EPA 245.1
Metals Digestion	Completed			8/19/2002	RB	EPA 200.7
Metals Digestion on Leachate	Completed			8/17/2002	KS	EPA 200.7
Metals Analysis						
SPLP RCRA8 Metals						
SPLP Arsenic	Below det lim	mg/L	0.015	8/20/2002	KS	1312/200.7
SPLP Barium	0.0547	mg/L	0.005	8/20/2002	KS	1312/200.7
SPLP Cadmium	Below det lim	mg/L	0.0025	8/20/2002	KS	1312/200.7
SPLP Chromium	0.0113	mg/L	0.005	8/20/2002	KS	1312/200.7
SPLP Lead	Below det lim	mg/L	0.0075	8/20/2002	KS	1312/200.7
SPLP Selenium	Below det lim	mg/L	0.015	8/20/2002	KS	1312/200.7
SPLP Silver	Below det lim	mg/L	0.010	8/20/2002	KS	1312/200.7
SPLP Mercury	Below det lim	mg/L	0.0004	8/20/2002	EPE	1312/245.1
Total RCRA8 Metals						
Total Arsenic	Below det lim	mg/Kg	5.29	8/20/2002	KSE	EPA 200.7
Total Barium	38.0	mg/Kg	1.76	8/20/2002	KSE	EPA 200.7
Total Cadmium	Below det lim	mg/Kg	0.882	8/20/2002	KSE	EPA 200.7
Total Chromium	37.8	mg/Kg	1.76	8/20/2002	KSE	EPA 200.7
Total Lead	27.8	mg/Kg	2.65	8/20/2002	KSE	EPA 200.7
Total Selenium	Below det lim	mg/Kg	10.7	8/20/2002	KSE	EPA 200.7
Total Silver	Below det lim	mg/Kg	3.53	8/20/2002	KSE	EPA 200.7
Total Mercury	Below det lim	mg/Kg	0.357	8/20/2002	EPE	EPA 245.1
TCLP/SPLP Preparation						
SPLP Extraction for Metals	Completed			8/15/2002	HB	SW846 1312
% Solids	48.8	%		8/16/2002	AW	SM2540 B Mod

Lab ID No: AD33535 **Collection Date:** 8/9/2002
Client Id: P3-1 (30-32) **Matrix** Sediment

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VOC Preparation						
VOC Extraction (solid)	Field ext			8/9/2002		SW846 5035
Volatile Organic Compounds						
VOCs by GC/MS						
Acetone	Below det lim	ug/Kg	3980	8/15/2002	RLJ	SW846 8260B
Acrylonitrile	Below det lim	ug/Kg	199	8/15/2002	RLJ	SW846 8260B
Benzene	Below det lim	ug/Kg	199	8/15/2002	RLJ	SW846 8260B
Bromobenzene	Below det lim	ug/Kg	199	8/15/2002	RLJ	SW846 8260B
Bromochloromethane	Below det lim	ug/Kg	199	8/15/2002	RLJ	SW846 8260B
Bromodichloromethane	Below det lim	ug/Kg	199	8/15/2002	RLJ	SW846 8260B
Bromoform	Below det lim	ug/Kg	199	8/15/2002	RLJ	SW846 8260B
Bromomethane	Below det lim	ug/Kg	398	8/15/2002	RLJ	SW846 8260B
2-Butanone (MEK)	Below det lim	ug/Kg	1990	8/15/2002	RLJ	SW846 8260B
n-Butylbenzene	Below det lim	ug/Kg	199	8/15/2002	RLJ	SW846 8260B
sec-Butylbenzene	Below det lim	ug/Kg	199	8/15/2002	RLJ	SW846 8260B
tert-Butylbenzene	Below det lim	ug/Kg	199	8/15/2002	RLJ	SW846 8260B
Carbon disulfide	Below det lim	ug/Kg	995	8/15/2002	RLJ	SW846 8260B
Carbon tetrachloride	Below det lim	ug/Kg	199	8/15/2002	RLJ	SW846 8260B
Chlorobenzene	Below det lim	ug/Kg	199	8/15/2002	RLJ	SW846 8260B
Chloroethane	Below det lim	ug/Kg	398	8/15/2002	RLJ	SW846 8260B
Chloroform	Below det lim	ug/Kg	199	8/15/2002	RLJ	SW846 8260B
Chloromethane	Below det lim	ug/Kg	398	8/15/2002	RLJ	SW846 8260B
2-Chlorotoluene	Below det lim	ug/Kg	199	8/15/2002	RLJ	SW846 8260B
4-Chlorotoluene	Below det lim	ug/Kg	199	8/15/2002	RLJ	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	Below det lim	ug/Kg	398	8/15/2002	RLJ	SW846 8260B
Dibromochloromethane	Below det lim	ug/Kg	199	8/15/2002	RLJ	SW846 8260B
1,2-Dibromoethane (EDB)	Below det lim	ug/Kg	199	8/15/2002	RLJ	SW846 8260B
Dibromomethane	Below det lim	ug/Kg	199	8/15/2002	RLJ	SW846 8260B
1,2-Dichlorobenzene	Below det lim	ug/Kg	199	8/15/2002	RLJ	SW846 8260B
1,3-Dichlorobenzene	Below det lim	ug/Kg	199	8/15/2002	RLJ	SW846 8260B
1,4-Dichlorobenzene	Below det lim	ug/Kg	199	8/15/2002	RLJ	SW846 8260B
Dichlorodifluoromethane	Below det lim	ug/Kg	398	8/15/2002	RLJ	SW846 8260B
1,1-Dichloroethane	Below det lim	ug/Kg	199	8/15/2002	RLJ	SW846 8260B
1,2-Dichloroethane	Below det lim	ug/Kg	199	8/15/2002	RLJ	SW846 8260B
1,1-Dichloroethene	Below det lim	ug/Kg	199	8/15/2002	RLJ	SW846 8260B
cis-1,2-Dichloroethene	Below det lim	ug/Kg	199	8/15/2002	RLJ	SW846 8260B
trans-1,2-Dichloroethene	Below det lim	ug/Kg	199	8/15/2002	RLJ	SW846 8260B
1,2-Dichloropropane	Below det lim	ug/Kg	199	8/15/2002	RLJ	SW846 8260B
1,3-Dichloropropane	Below det lim	ug/Kg	199	8/15/2002	RLJ	SW846 8260B
2,2-Dichloropropane	Below det lim	ug/Kg	199	8/15/2002	RLJ	SW846 8260B
1,1-Dichloropropene	Below det lim	ug/Kg	199	8/15/2002	RLJ	SW846 8260B
cis-1,3-Dichloropropene	Below det lim	ug/Kg	199	8/15/2002	RLJ	SW846 8260B

Lab ID No: AD33535
Client Id: P3-1 (30-32)

Collection Date: 8/9/2002
Matrix Sediment

Parameter	Results	Units	PQL	Start Date	Analyst	Method
trans-1,3-Dichloropropene	Below det lim	ug/Kg	199	8/15/2002	RLJ	SW846 8260B
Ethylbenzene	Below det lim	ug/Kg	199	8/15/2002	RLJ	SW846 8260B
Hexachlorobutadiene	Below det lim	ug/Kg	199	8/15/2002	RLJ	SW846 8260B
2-Hexanone (MBK)	Below det lim	ug/Kg	1990	8/15/2002	RLJ	SW846 8260B
Isopropylbenzene	Below det lim	ug/Kg	199	8/15/2002	RLJ	SW846 8260B
4-Isopropyltoluene	Below det lim	ug/Kg	199	8/15/2002	RLJ	SW846 8260B
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/Kg	199	8/15/2002	RLJ	SW846 8260B
4-Methyl-2-pentanone (MIBK)	Below det lim	ug/Kg	1990	8/15/2002	RLJ	SW846 8260B
Methylene chloride	Below det lim	ug/Kg	199	8/15/2002	RLJ	SW846 8260B
Naphthalene	Below det lim	ug/Kg	199	8/15/2002	RLJ	SW846 8260B
n-Propylbenzene	Below det lim	ug/Kg	199	8/15/2002	RLJ	SW846 8260B
Styrene	Below det lim	ug/Kg	199	8/15/2002	RLJ	SW846 8260B
1,1,1,2-Tetrachloroethane	Below det lim	ug/Kg	199	8/15/2002	RLJ	SW846 8260B
1,1,2,2-Tetrachloroethane	Below det lim	ug/Kg	199	8/15/2002	RLJ	SW846 8260B
Tetrachloroethene (PCE)	Below det lim	ug/Kg	199	8/15/2002	RLJ	SW846 8260B
Toluene	Below det lim	ug/Kg	199	8/15/2002	RLJ	SW846 8260B
1,2,3-Trichlorobenzene	Below det lim	ug/Kg	199	8/15/2002	RLJ	SW846 8260B
1,2,4-Trichlorobenzene	Below det lim	ug/Kg	199	8/15/2002	RLJ	SW846 8260B
1,1,1-Trichloroethane	Below det lim	ug/Kg	199	8/15/2002	RLJ	SW846 8260B
1,1,2-Trichloroethane	Below det lim	ug/Kg	199	8/15/2002	RLJ	SW846 8260B
Trichloroethene (TCE)	Below det lim	ug/Kg	199	8/15/2002	RLJ	SW846 8260B
Trichlorofluoromethane	Below det lim	ug/Kg	199	8/15/2002	RLJ	SW846 8260B
1,2,3-Trichloropropane	Below det lim	ug/Kg	199	8/15/2002	RLJ	SW846 8260B
1,2,4-Trimethylbenzene	Below det lim	ug/Kg	199	8/15/2002	RLJ	SW846 8260B
1,3,5-Trimethylbenzene	Below det lim	ug/Kg	199	8/15/2002	RLJ	SW846 8260B
Vinyl chloride	Below det lim	ug/Kg	199	8/15/2002	RLJ	SW846 8260B
m,p-Xylenes	Below det lim	ug/Kg	398	8/15/2002	RLJ	SW846 8260B
o-Xylene	Below det lim	ug/Kg	199	8/15/2002	RLJ	SW846 8260B
4-Bromofluorobenzene (%SR)	88	ug/Kg	0.000	8/15/2002	RLJ	SW846 8260B
1,4-Difluorobenzene (%SR)	109	ug/Kg	0.000	8/15/2002	RLJ	SW846 8260B
Chlorobenzene-d5 (%SR)	105	ug/Kg	0.000	8/15/2002	RLJ	SW846 8260B
TPH Preparation						
Ultrasonic Extraction	Completed			8/19/2002	RT	SW846 3550B
Petroleum Hydrocarbon Analysis						
Extractable TPH						
Total Petroleum Hydrocarbons (C9-C36)	Below det lim	mg/Kg	30	8/19/2002	JD	CT ETPH
Gasoline	Below det lim	mg/Kg	30	8/19/2002	JD	CT ETPH
Fuel Oil #2	Below det lim	mg/Kg	30	8/19/2002	JD	CT ETPH
Fuel Oil #4	Below det lim	mg/Kg	30	8/19/2002	JD	CT ETPH
Fuel Oil #6	Below det lim	mg/Kg	30	8/19/2002	JD	CT ETPH
Motor Oil	Below det lim	mg/Kg	30	8/19/2002	JD	CT ETPH
Aviation Fuel	Below det lim	mg/Kg	30	8/19/2002	JD	CT ETPH

Lab ID No: AD33535
Client Id: P3-1 (30-32)

Collection Date: 8/9/2002
Matrix Sediment

Parameter	Results	Units	PQL	Start Date	Analyst	Method
Unidentified	Below det lim	mg/Kg	30	8/19/2002	JD	CT ETPH
Other Oil	Below det lim	mg/Kg	30	8/19/2002	JD	CT ETPH
1-Chloro-octadecane (%SR)	83	mg/Kg	0.	8/19/2002	JD	CT ETPH
Metals Preparation						
Mercury Digestion	Completed			8/19/2002	RB	EPA 245.1
Mercury Digestion on Leachate	Completed			8/19/2002	KS	EPA 245.1
Metals Digestion	Completed			8/19/2002	RB	EPA 200.7
Metals Digestion on Leachate	Completed			8/19/2002	KS	EPA 200.7
Metals Analysis						
SPLP Mercury	Below det lim	mg/L	0.0004	8/20/2002	EPE	1312/245.1
Total RCRA8 Metals						
Total Arsenic	Below det lim	mg/Kg	5.12	8/20/2002	KSE	EPA 200.7
Total Barium	19.1	mg/Kg	1.71	8/20/2002	KSE	EPA 200.7
Total Cadmium	Below det lim	mg/Kg	0.853	8/20/2002	KSE	EPA 200.7
Total Chromium	25.4	mg/Kg	1.71	8/20/2002	KSE	EPA 200.7
Total Lead	17.8	mg/Kg	2.56	8/20/2002	KSE	EPA 200.7
Total Selenium	Below det lim	mg/Kg	6.69	8/20/2002	KSE	EPA 200.7
Total Silver	Below det lim	mg/Kg	3.41	8/20/2002	KSE	EPA 200.7
Total Mercury	Below det lim	mg/Kg	0.296	8/20/2002	EPE	EPA 245.1
TCLP/SPLP Preparation						
SPLP Extraction for Metals	Completed			8/15/2002	HB	SW846 1312
% Solids	55.9	%		8/16/2002	AW	SM2540 B Mod

Lab ID No: AD33536 **Collection Date:** 8/12/2002
Client Id: P3-1 (35-37) **Matrix** Sediment

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VOC Preparation						
VOC Extraction (solid)	Field ext			8/9/2002		SW846 5035
Volatile Organic Compounds						
VOCs by GC/MS						
Acetone	Below det lim	ug/Kg	1700	8/15/2002	RLJ	SW846 8260B
Acrylonitrile	Below det lim	ug/Kg	85.0	8/15/2002	RLJ	SW846 8260B
Benzene	Below det lim	ug/Kg	85.0	8/15/2002	RLJ	SW846 8260B
Bromobenzene	Below det lim	ug/Kg	85.0	8/15/2002	RLJ	SW846 8260B
Bromochloromethane	Below det lim	ug/Kg	85.0	8/15/2002	RLJ	SW846 8260B
Bromodichloromethane	Below det lim	ug/Kg	85.0	8/15/2002	RLJ	SW846 8260B
Bromoform	Below det lim	ug/Kg	85.0	8/15/2002	RLJ	SW846 8260B
Bromomethane	Below det lim	ug/Kg	170	8/15/2002	RLJ	SW846 8260B
2-Butanone (MEK)	Below det lim	ug/Kg	850	8/15/2002	RLJ	SW846 8260B
n-Butylbenzene	Below det lim	ug/Kg	85.0	8/15/2002	RLJ	SW846 8260B
sec-Butylbenzene	Below det lim	ug/Kg	85.0	8/15/2002	RLJ	SW846 8260B
tert-Butylbenzene	Below det lim	ug/Kg	85.0	8/15/2002	RLJ	SW846 8260B
Carbon disulfide	Below det lim	ug/Kg	425	8/15/2002	RLJ	SW846 8260B
Carbon tetrachloride	Below det lim	ug/Kg	85.0	8/15/2002	RLJ	SW846 8260B
Chlorobenzene	Below det lim	ug/Kg	85.0	8/15/2002	RLJ	SW846 8260B
Chloroethane	Below det lim	ug/Kg	170	8/15/2002	RLJ	SW846 8260B
Chloroform	Below det lim	ug/Kg	85.0	8/15/2002	RLJ	SW846 8260B
Chloromethane	Below det lim	ug/Kg	170	8/15/2002	RLJ	SW846 8260B
2-Chlorotoluene	Below det lim	ug/Kg	85.0	8/15/2002	RLJ	SW846 8260B
4-Chlorotoluene	Below det lim	ug/Kg	85.0	8/15/2002	RLJ	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	Below det lim	ug/Kg	170	8/15/2002	RLJ	SW846 8260B
Dibromochloromethane	Below det lim	ug/Kg	85.0	8/15/2002	RLJ	SW846 8260B
1,2-Dibromoethane (EDB)	Below det lim	ug/Kg	85.0	8/15/2002	RLJ	SW846 8260B
Dibromomethane	Below det lim	ug/Kg	85.0	8/15/2002	RLJ	SW846 8260B
1,2-Dichlorobenzene	Below det lim	ug/Kg	85.0	8/15/2002	RLJ	SW846 8260B
1,3-Dichlorobenzene	Below det lim	ug/Kg	85.0	8/15/2002	RLJ	SW846 8260B
1,4-Dichlorobenzene	Below det lim	ug/Kg	85.0	8/15/2002	RLJ	SW846 8260B
Dichlorodifluoromethane	Below det lim	ug/Kg	170	8/15/2002	RLJ	SW846 8260B
1,1-Dichloroethane	Below det lim	ug/Kg	85.0	8/15/2002	RLJ	SW846 8260B
1,2-Dichloroethane	Below det lim	ug/Kg	85.0	8/15/2002	RLJ	SW846 8260B
1,1-Dichloroethene	Below det lim	ug/Kg	85.0	8/15/2002	RLJ	SW846 8260B
cis-1,2-Dichloroethene	Below det lim	ug/Kg	85.0	8/15/2002	RLJ	SW846 8260B
trans-1,2-Dichloroethene	Below det lim	ug/Kg	85.0	8/15/2002	RLJ	SW846 8260B
1,2-Dichloropropane	Below det lim	ug/Kg	85.0	8/15/2002	RLJ	SW846 8260B
1,3-Dichloropropane	Below det lim	ug/Kg	85.0	8/15/2002	RLJ	SW846 8260B
2,2-Dichloropropane	Below det lim	ug/Kg	85.0	8/15/2002	RLJ	SW846 8260B
1,1-Dichloropropene	Below det lim	ug/Kg	85.0	8/15/2002	RLJ	SW846 8260B
cis-1,3-Dichloropropene	Below det lim	ug/Kg	85.0	8/15/2002	RLJ	SW846 8260B

Lab ID No: AD33536 **Collection Date:** 8/12/2002
Client Id: P3-1 (35-37) **Matrix** Sediment

Parameter	Results	Units	PQL	Start Date	Analyst	Method
trans-1,3-Dichloropropene	Below det lim	ug/Kg	85.0	8/15/2002	RLJ	SW846 8260B
Ethylbenzene	Below det lim	ug/Kg	85.0	8/15/2002	RLJ	SW846 8260B
Hexachlorobutadiene	Below det lim	ug/Kg	85.0	8/15/2002	RLJ	SW846 8260B
2-Hexanone (MBK)	Below det lim	ug/Kg	850	8/15/2002	RLJ	SW846 8260B
Isopropylbenzene	Below det lim	ug/Kg	85.0	8/15/2002	RLJ	SW846 8260B
4-Isopropyltoluene	Below det lim	ug/Kg	85.0	8/15/2002	RLJ	SW846 8260B
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/Kg	85.0	8/15/2002	RLJ	SW846 8260B
4-Methyl-2-pentanone (MIBK)	Below det lim	ug/Kg	850	8/15/2002	RLJ	SW846 8260B
Methylene chloride	Below det lim	ug/Kg	85.0	8/15/2002	RLJ	SW846 8260B
Naphthalene	Below det lim	ug/Kg	85.0	8/15/2002	RLJ	SW846 8260B
n-Propylbenzene	Below det lim	ug/Kg	85.0	8/15/2002	RLJ	SW846 8260B
Styrene	Below det lim	ug/Kg	85.0	8/15/2002	RLJ	SW846 8260B
1,1,1,2-Tetrachloroethane	Below det lim	ug/Kg	85.0	8/15/2002	RLJ	SW846 8260B
1,1,2,2-Tetrachloroethane	Below det lim	ug/Kg	85.0	8/15/2002	RLJ	SW846 8260B
Tetrachloroethene (PCE)	Below det lim	ug/Kg	85.0	8/15/2002	RLJ	SW846 8260B
Toluene	Below det lim	ug/Kg	85.0	8/15/2002	RLJ	SW846 8260B
1,2,3-Trichlorobenzene	Below det lim	ug/Kg	85.0	8/15/2002	RLJ	SW846 8260B
1,2,4-Trichlorobenzene	Below det lim	ug/Kg	85.0	8/15/2002	RLJ	SW846 8260B
1,1,1-Trichloroethane	Below det lim	ug/Kg	85.0	8/15/2002	RLJ	SW846 8260B
1,1,2-Trichloroethane	Below det lim	ug/Kg	85.0	8/15/2002	RLJ	SW846 8260B
Trichloroethene (TCE)	Below det lim	ug/Kg	85.0	8/15/2002	RLJ	SW846 8260B
Trichlorofluoromethane	Below det lim	ug/Kg	85.0	8/15/2002	RLJ	SW846 8260B
1,2,3-Trichloropropane	Below det lim	ug/Kg	85.0	8/15/2002	RLJ	SW846 8260B
1,2,4-Trimethylbenzene	Below det lim	ug/Kg	85.0	8/15/2002	RLJ	SW846 8260B
1,3,5-Trimethylbenzene	Below det lim	ug/Kg	85.0	8/15/2002	RLJ	SW846 8260B
Vinyl chloride	Below det lim	ug/Kg	85.0	8/15/2002	RLJ	SW846 8260B
m,p-Xylenes	Below det lim	ug/Kg	170	8/15/2002	RLJ	SW846 8260B
o-Xylene	Below det lim	ug/Kg	85.0	8/15/2002	RLJ	SW846 8260B
4-Bromofluorobenzene (%SR)	88	ug/Kg	0.000	8/15/2002	RLJ	SW846 8260B
1,4-Difluorobenzene (%SR)	108	ug/Kg	0.000	8/15/2002	RLJ	SW846 8260B
Chlorobenzene-d5 (%SR)	101	ug/Kg	0.000	8/15/2002	RLJ	SW846 8260B
TPH Preparation						
Ultrasonic Extraction	Completed			8/19/2002	RT	SW846 3550B
Petroleum Hydrocarbon Analysis						
Extractable TPH						
Total Petroleum Hydrocarbons (C9-C36)	Below det lim	mg/Kg	20	8/19/2002	JD	CT ETPH
Gasoline	Below det lim	mg/Kg	20	8/19/2002	JD	CT ETPH
Fuel Oil #2	Below det lim	mg/Kg	20	8/19/2002	JD	CT ETPH
Fuel Oil #4	Below det lim	mg/Kg	20	8/19/2002	JD	CT ETPH
Fuel Oil #6	Below det lim	mg/Kg	20	8/19/2002	JD	CT ETPH
Motor Oil	Below det lim	mg/Kg	20	8/19/2002	JD	CT ETPH
Aviation Fuel	Below det lim	mg/Kg	20	8/19/2002	JD	CT ETPH

Lab ID No: AD33536
Client Id: P3-1 (35-37)

Collection Date: 8/12/2002
Matrix Sediment

Parameter	Results	Units	PQL	Start Date	Analyst	Method
Unidentified	Below det lim	mg/Kg	20	8/19/2002	JD	CT ETPH
Other Oil	Below det lim	mg/Kg	20	8/19/2002	JD	CT ETPH
1-Chloro-octadecane (%SR)	69	mg/Kg	0.	8/19/2002	JD	CT ETPH
Metals Preparation						
Mercury Digestion	Completed			8/19/2002	RB	EPA 245.1
Mercury Digestion on Leachate	Completed			8/19/2002	KS	EPA 245.1
Metals Digestion	Completed			8/19/2002	RB	EPA 200.7
Metals Digestion on Leachate	Completed			8/19/2002	KS	EPA 200.7
Metals Analysis						
SPLP Mercury	Below det lim	mg/L	0.0004	8/20/2002	EPE	1312/245.1
Total RCRA8 Metals						
Total Arsenic	Below det lim	mg/Kg	3.27	8/20/2002	KSE	EPA 200.7
Total Barium	24.3	mg/Kg	1.09	8/20/2002	KSE	EPA 200.7
Total Cadmium	Below det lim	mg/Kg	0.544	8/20/2002	KSE	EPA 200.7
Total Chromium	13.3	mg/Kg	1.09	8/20/2002	KSE	EPA 200.7
Total Lead	4.05	mg/Kg	1.63	8/20/2002	KSE	EPA 200.7
Total Selenium	Below det lim	mg/Kg	3.27	8/20/2002	KSE	EPA 200.7
Total Silver	Below det lim	mg/Kg	2.18	8/20/2002	KSE	EPA 200.7
Total Mercury	Below det lim	mg/Kg	0.210	8/20/2002	EPE	EPA 245.1
TCLP/SPLP Preparation						
SPLP Extraction for Metals	Completed			8/15/2002	HB	SW846 1312
% Solids	80.5	%		8/16/2002	AW	SM2540 B Mod

Reviewed by:

Quality Service/Quality Assurance Depts.

Validated by:

President/Laboratory Director

8/20/2002

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

Laboratory Report Supplement

Interpretation of Total Petroleum Hydrocarbon Report

Petroleum identification is determined by comparing the GC fingerprint obtained from the sample with a library of GC fingerprints obtained from analyses of various petroleum products. Possible match categories are as follows:

Gasoline – includes regular, unleaded, premium, etc.
Fuel Oil #2 – includes home heating oil, #2 fuel oil, and diesel
Fuel Oil #4 – includes #4 fuel oil
Fuel Oil #6 – includes #6 fuel oil and bunker "C" oil
Motor Oil – includes virgin and waste automobile oil
Ligroin -- includes mineral spirits, petroleum naphtha, vm&p naphtha
Aviation Fuel – includes kerosene, Jet A and JP-4
Other Oil – includes lubricating and cutting oil, and silicon oil

Factors such as microbial degradation, weathering and solubility generally prevent specific identification within a petroleum category. A finding of "unidentified" means that the sample fingerprint was characteristic of a petroleum product, but could not be matched to a fingerprint in our library.

After identification, the amount present in the sample is quantified using a calibration curve prepared from a petroleum product of the same category as the identified petroleum. Unidentified petroleum is quantified using a petroleum calibration that approximates the distribution of compounds in the sample. A * in the results column indicates the primary petroleum fingerprint calibration used to quantify unidentified samples. A ** in the results column indicates the secondary petroleum fingerprint calibration used to quantify unidentified samples. A *** in the results column indicates the tertiary petroleum fingerprint calibration used to quantify unidentified samples.

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

Laboratory Report Supplement
References

SW 846	Test Methods for Evaluating Solid Waste. Third edition, 1998
40 CFR 136	Guidelines Establishing Test Procedures for the Analysis of Pollutants Under the Clean Water Act
40 CFR 141	National Primary Drinking Water Regulations
40 CFR 143	National Secondary Drinking Water Regulations
40 CFR 160	Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), Good Laboratory Practice Standards
APHA-AWWA-WPCF	Standard Methods for the Examination of Water and Wastewater. 19th edition, 1995
ASTM D 3328	Standard Methods for the Comparison of Waterborne Petroleum Oils by Gas Chromatography
EPA 540/G-87/003	Data Quality Objectives for Remediation Response Activities, Development Process
EPA 600/4-79-012	Quality Assurance Handbook for Analytical Quality Control in Water and Wastewater Laboratories
EPA 600/4-79-019	Handbook for Analytical Quality Control in Water and Wastewater Laboratories
EPA 600/4-79-020	Method for the Chemical Analysis of Water and Wastes
EPA 600/4-82-057	Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater
EPA 600/4 85/056	Choosing Cost-Effective QA/QC Programs for Chemical Analysis
EPA 600/4-88/039	Method for the Determination of Organic Compounds in Drinking Water
CT ETPH	Analysis of Extractable Total Petroleum Hydrocarbons (ETPH)
MADEP EPH	Method for the Determination of Extractable Petroleum Hydrocarbons (EPH)
MADEP VPH	Method for the Determination of Volatile Petroleum Hydrocarbons (VPH)
QAMS 004/80	Guidelines and Specifications for Preparing Quality Assurance Program Plans, USEPA Office of Monitoring System and Quality Assurance
GC-D-52-77	Oil Spill Identification System

Acronyms & Abbreviations

AA	Atomic Absorption
ASTM	American Society for Testing and Materials
BOD	Biological Oxygen Demand
°C	degree(s) Celsius
COD	Chemical Oxygen Demand
CMR	Code of Massachusetts Regulations
DEP	Department of Environmental Protection
DI	De-ionized
DO	Dissolved Oxygen
EPA	Environmental Protection Agency
EPH	Extractable Petroleum Hydrocarbons
FID	Flame Ionization Detector
GC	Gas Chromatograph
GC / MS	Gas Chromatograph / Mass Spectrometer
ICP	Inductively Coupled Plasma
Id	Identification
MCL	Maximum Contaminant Level
MDL	Minimum Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
NTU	Nephelometric Turbidity Units
PAHs	Polynuclear Aromatic Hydrocarbons
PCBs	Polychlorinated Biphenyls
PID	Photo Ionization Detector
PQL	Practical Quantitation Limit
R	Recovery (%R: Percent Recovery)
RSD	Relative Standard Deviation
SM	Standard Method
SR	Surrogate Recovery (%SR)
SW	Solid Waste
THM	Trihalomethane(s)
TOC	Total Organic Carbon
TOX	Total Organic Halogen
TPH	Total Petroleum Hydrocarbons
VOC	Volatile Organic Compound
VPH	Volatile Petroleum Hydrocarbons

Definitions

Equipment Blank:	A sample of analyte-free media, which has been used to rinse the sampling equipment. It is collected after completion of decontamination and prior to sampling. This blank is useful in documenting adequate decontamination of sampling equipment.
Field Duplicate:	Independent samples, which are collected as close as possible to the same point in space and time. They are two separate samples taken from the same source, stored in separate containers, and analyzed independently. These duplicates are useful in documenting the precision of the sampling process.
Laboratory Control Sample (LCS):	A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.
Matrix Duplicate:	An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.
Matrix Spike:	An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.
Matrix Spike Duplicates:	Intra-laboratory split of samples spiked with identical concentrations of target analyte(s). The spiking occurs prior to sample preparation and analysis. They are used to document the precision and bias of a method in a given sample matrix.
Method Blank:	An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.
Method Detection Limit (MDL):	The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.
Practical Quantitation Limit (PQL):	The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. The PQL is generally 5 to 10 times the MDL. However, it may be nominally chosen within these guidelines to simplify data reporting. For many analytes the PQL analyte concentration is selected as the lowest non-zero standard in the calibration curve. Sample PQLs are highly matrix-dependent.
Precision:	The agreement among a set of replicate measurements without assumption of knowledge of the true value. Precision is estimated by means of duplicate/replicate analyses. These samples should contain concentrations of analyte above the MDL, and may involve the use of matrix spikes. The Relative Percent Difference (%RPD) is used to estimate the precision between two samples.
Surrogate:	An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.
Trip Blank:	A sample of analyte-free media taken from the laboratory to the sampling site and returned to the laboratory unopened. A trip blank is used to document contamination attributable to shipping and field handling procedures. This type of blank is useful in documenting contamination of volatile organic samples.

08/3 1456

CHAIN OF CUSTODY RECORD

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

Page 1 of 1

Special Handling: ~~5 days~~ 5 days
☐ Standard TAT - ~~7 to 10 business days~~
☐ Rush TAT - Date Needed: _____
· All TATs subject to laboratory approval.
· Min. 24-hour notification needed for rushes.
· All samples are disposed of after 60 days unless otherwise instructed.

Report To: David Williams (CEF)
100 Shield Street
West Hartford CT 06110
Project Mgr.: David Williams

Invoice To: Michelle Malone
22806763
P.O. No.: _____ RQN: _____

Project No.: A2 1001600
Site Name: West River Bridge
Location: West / New Haven State: CT
Sampler(s): David Williams

1=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid
7=CH_3OH 8= $NaHSO_4$ 9= none 10= methanol

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW= Surface Water SO=Soil SL=Sludge A=Air
X1= _____ X2= Solvent X3= _____

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Preservative	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	CT ETPH	SPLP Extraction Pb/Cd/Cr/Ni/Zn	VOCs - 8260 - SOILS	PAHs - 8270	Reactivity, Cyanide, Sulfide	Ignitability / Flash pt	Corrosivity (pH)	Mass - GRCDA metals	PCBs - 8082	Notes:
AC 33531	P3-1 (0-3')	8/1/02		G	X2	10/4	1		1		X	X	X	X	X		X	X	X	X
AC 33532	P3-1 (5-7')	"		G	X2	10/4	1		1		X	X	X	X	X		X	X	X	X
AC 33533	P3-1 (15-17')			G	X2	10/4	1		1		X	X	X						X	
AC 33534	P3-1 (25-27')			G	X2	10/4	1		1		X	X	X						X	
AC 33535	P3-1 (30-32')			G	X2	10/4	1		1		X	X	X						X	
AC 33536	P3-1 (55-57')	8/12/02		G	X2	10/4	1		1		X	X	X						X	
AC																				
AC																				
AC																				
AC																				

Notes: per David Williams 8/15

☐ Fax results when available to (860) 953-7407
☐ E-mail results when available to _____
Condition upon Receipt: ☐ Iced ☐ Ambient ☒ 40 °C

Relinquished by:	Received by:	Date:	Time:
	CEF Fedex	8/12/02	12:30 pm
		8/13/02	1036
		8/13/02	1340

Ref

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

Massachusetts Certification # M-MA138
Rhode Island # 98 Maine # MA138
Florida # E87600 / 87562
New Hampshire # 2538
Connecticut # PH-0777
New York # 11393

RECEIVED
AUG 29 2002
CONSULTING ENVIRONMENTAL ENGINEERS, INC.

Consulting Environmental
100 Shield Street
West Hartford, CT 06110

Attn: David Williams

Friday, August 23, 2002

Report Status:
☑ Final Report
☐ Re-issued Report
☐ Revised Report

Client Project Number: A2100160 **Location:** West River Bridge - CT

Laboratory ID	Client Sample ID	Analyses Requested
AD34401	P2-2 (0-2)	Extractable TPH
		Ultrasonic Extraction
		SPLP Extraction for Metals
		Metals Digestion on Leachate
		Mercury Digestion on Leachate
		SPLP RCRA8 Metals
		SPLP Mercury
		VOCs by GC/MS
		VOC Extraction (solid)
		PAHs by GC/MS
		Ultrasonic Extraction
		Reactivity - Cyanide/Sulfide
		Ignitability of Solids
		Flash Point
		pH
		Metals Digestion
		Mercury Digestion
		Total RCRA8 Metals
		Total Mercury
		Polychlorinated Biphenyls by GC
		% Solids
AD34402	P2-2 (5-7)	Extractable TPH
		Ultrasonic Extraction
		SPLP Extraction for Metals
		Metals Digestion on Leachate
		Mercury Digestion on Leachate

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

Client Project Number: A2100160 **Location:** West River Bridge - CT

Laboratory ID	Client Sample ID	Analyses Requested
AD34402	P2-2 (5-7)	SPLP RCRA8 Metals SPLP Mercury VOCs by GC/MS VOC Extraction (solid) PAHs by GC/MS Ultrasonic Extraction Reactivity - Cyanide/Sulfide Ignitability of Solids Flash Point pH Metals Digestion Mercury Digestion Total RCRA8 Metals Total Mercury Polychlorinated Biphenyls by GC % Solids
AD34403	P2-2 (10-12)	Extractable TPH Ultrasonic Extraction SPLP Extraction for Metals Metals Digestion on Leachate Mercury Digestion on Leachate SPLP RCRA8 Metals SPLP Mercury VOCs by GC/MS VOC Extraction (solid) Metals Digestion Mercury Digestion Total RCRA8 Metals Total Mercury % Solids
AD34404	P2-2 (25-27)	Extractable TPH Ultrasonic Extraction SPLP Extraction for Metals Metals Digestion on Leachate Mercury Digestion on Leachate

11 Almgren Drive • Agawam, Massachusetts 01001 • 1-800-789-9115 • 413-789-9018 • Fax 413-789-4076

Client Project Number: A2100160 **Location:** West River Bridge - CT

Laboratory ID	Client Sample ID	Analyses Requested
AD34404	P2-2 (25-27)	SPLP RCRA8 Metals
		SPLP Mercury
		VOCs by GC/MS
		VOC Extraction (solid)
		Metals Digestion
		Mercury Digestion
		Total RCRA8 Metals
		Total Mercury
		% Solids
AD34405	P2-2 (35-37)	Extractable TPH
		Ultrasonic Extraction
		SPLP Extraction for Metals
		Metals Digestion on Leachate
		Mercury Digestion on Leachate
		SPLP RCRA8 Metals
		SPLP Mercury
		VOCs by GC/MS
		VOC Extraction (solid)
		Metals Digestion
		Mercury Digestion
		Total RCRA8 Metals
		Total Mercury
		% Solids
AD34406	P2-2 (40-42)	Extractable TPH
		Ultrasonic Extraction
		SPLP Extraction for Metals
		Metals Digestion on Leachate
		Mercury Digestion on Leachate
		SPLP RCRA8 Metals
		SPLP Mercury
		VOCs by GC/MS
		VOC Extraction (solid)
		Metals Digestion
		Mercury Digestion
		Total RCRA8 Metals

11 Almgren Drive • Agawam, Massachusetts 01001 • 1-800-789-9115 • 413-789-9018 • Fax 413-789-4076

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

Client Project Number: A2100160 **Location:** West River Bridge - CT

Laboratory ID	Client Sample ID	Analyses Requested
AD34406	P2-2 (40-42)	Total Mercury % Solids

I attest that all information contained within this report has been reviewed for accuracy and checked against all quality control requirements outlined in each applicable method and meet the requirements of NELAC including any data obtained from a subcontract laboratory. Please note that all solid matrix sample results are calculated on a dry weight basis unless otherwise specified.

This report may not be reproduced, except in full, without written approval from Spectrum Analytical, Inc.

Authorized by:

Hanibal C. Tayeh, Ph.D.
President/Laboratory Director

11 Almgren Drive • Agawam, Massachusetts 01001 • 1-800-789-9115 • 413-789-9018 • Fax 413-789-4076

SPECTRUM ANALYTICAL, INC.

Laboratory Report

RECEIVED
AUG 29 2002
CONSULTING ENVIRONMENTAL ENGINEERS, INC.

Location: West River Bridge - CT
Client: CEE
Lab ID No: AD34401
Client Id: P2-2 (0-2)

Client Project No: A2100160
Submittal Date: 8/16/2002
Collection Date: 8/15/2002
Matrix Sediment

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VOC Preparation						
VOC Extraction (solid)	Field ext			8/15/2002		SW846 5035
Volatile Organic Compounds						
VOCs by GC/MS						
Acetone	Below det lim	ug/Kg	3460	8/20/2002	KW	SW846 8260B
Acrylonitrile	Below det lim	ug/Kg	173	8/20/2002	KW	SW846 8260B
Benzene	Below det lim	ug/Kg	173	8/20/2002	KW	SW846 8260B
Bromobenzene	Below det lim	ug/Kg	173	8/20/2002	KW	SW846 8260B
Bromochloromethane	Below det lim	ug/Kg	173	8/20/2002	KW	SW846 8260B
Bromodichloromethane	Below det lim	ug/Kg	173	8/20/2002	KW	SW846 8260B
Bromoform	Below det lim	ug/Kg	173	8/20/2002	KW	SW846 8260B
Bromomethane	Below det lim	ug/Kg	346	8/20/2002	KW	SW846 8260B
2-Butanone (MEK)	Below det lim	ug/Kg	1730	8/20/2002	KW	SW846 8260B
n-Butylbenzene	Below det lim	ug/Kg	173	8/20/2002	KW	SW846 8260B
sec-Butylbenzene	Below det lim	ug/Kg	173	8/20/2002	KW	SW846 8260B
tert-Butylbenzene	Below det lim	ug/Kg	173	8/20/2002	KW	SW846 8260B
Carbon disulfide	Below det lim	ug/Kg	865	8/20/2002	KW	SW846 8260B
Carbon tetrachloride	Below det lim	ug/Kg	173	8/20/2002	KW	SW846 8260B
Chlorobenzene	Below det lim	ug/Kg	173	8/20/2002	KW	SW846 8260B
Chloroethane	Below det lim	ug/Kg	346	8/20/2002	KW	SW846 8260B
Chloroform	Below det lim	ug/Kg	173	8/20/2002	KW	SW846 8260B
Chloromethane	Below det lim	ug/Kg	346	8/20/2002	KW	SW846 8260B
2-Chlorotoluene	Below det lim	ug/Kg	173	8/20/2002	KW	SW846 8260B
4-Chlorotoluene	Below det lim	ug/Kg	173	8/20/2002	KW	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	Below det lim	ug/Kg	346	8/20/2002	KW	SW846 8260B
Dibromochloromethane	Below det lim	ug/Kg	173	8/20/2002	KW	SW846 8260B
1,2-Dibromoethane (EDB)	Below det lim	ug/Kg	173	8/20/2002	KW	SW846 8260B
Dibromomethane	Below det lim	ug/Kg	173	8/20/2002	KW	SW846 8260B
1,2-Dichlorobenzene	Below det lim	ug/Kg	173	8/20/2002	KW	SW846 8260B
1,3-Dichlorobenzene	Below det lim	ug/Kg	173	8/20/2002	KW	SW846 8260B
1,4-Dichlorobenzene	Below det lim	ug/Kg	173	8/20/2002	KW	SW846 8260B
Dichlorodifluoromethane	Below det lim	ug/Kg	346	8/20/2002	KW	SW846 8260B
1,1-Dichloroethane	Below det lim	ug/Kg	173	8/20/2002	KW	SW846 8260B
1,2-Dichloroethane	Below det lim	ug/Kg	173	8/20/2002	KW	SW846 8260B
1,1-Dichloroethene	Below det lim	ug/Kg	173	8/20/2002	KW	SW846 8260B
cis-1,2-Dichloroethene	Below det lim	ug/Kg	173	8/20/2002	KW	SW846 8260B
trans-1,2-Dichloroethene	Below det lim	ug/Kg	173	8/20/2002	KW	SW846 8260B

Lab ID No: AD34401 **Collection Date:** 8/15/2002
Client Id: P2-2 (0-2) **Matrix** Sediment

Parameter	Results	Units	PQL	Start Date	Analyst	Method
1,2-Dichloropropane	Below det lim	ug/Kg	173	8/20/2002	KW	SW846 8260B
1,3-Dichloropropane	Below det lim	ug/Kg	173	8/20/2002	KW	SW846 8260B
2,2-Dichloropropane	Below det lim	ug/Kg	173	8/20/2002	KW	SW846 8260B
1,1-Dichloropropene	Below det lim	ug/Kg	173	8/20/2002	KW	SW846 8260B
cis-1,3-Dichloropropene	Below det lim	ug/Kg	173	8/20/2002	KW	SW846 8260B
trans-1,3-Dichloropropene	Below det lim	ug/Kg	173	8/20/2002	KW	SW846 8260B
Ethylbenzene	Below det lim	ug/Kg	173	8/20/2002	KW	SW846 8260B
Hexachlorobutadiene	Below det lim	ug/Kg	173	8/20/2002	KW	SW846 8260B
2-Hexanone (MBK)	Below det lim	ug/Kg	1730	8/20/2002	KW	SW846 8260B
Isopropylbenzene	Below det lim	ug/Kg	173	8/20/2002	KW	SW846 8260B
4-Isopropyltoluene	Below det lim	ug/Kg	173	8/20/2002	KW	SW846 8260B
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/Kg	173	8/20/2002	KW	SW846 8260B
4-Methyl-2-pentanone (MIBK)	Below det lim	ug/Kg	1730	8/20/2002	KW	SW846 8260B
Methylene chloride	Below det lim	ug/Kg	1400	8/20/2002	KW	SW846 8260B
Naphthalene	Below det lim	ug/Kg	173	8/20/2002	KW	SW846 8260B
n-Propylbenzene	Below det lim	ug/Kg	173	8/20/2002	KW	SW846 8260B
Styrene	Below det lim	ug/Kg	173	8/20/2002	KW	SW846 8260B
1,1,1,2-Tetrachloroethane	Below det lim	ug/Kg	173	8/20/2002	KW	SW846 8260B
1,1,2,2-Tetrachloroethane	Below det lim	ug/Kg	173	8/20/2002	KW	SW846 8260B
Tetrachloroethene (PCE)	Below det lim	ug/Kg	173	8/20/2002	KW	SW846 8260B
Toluene	Below det lim	ug/Kg	173	8/20/2002	KW	SW846 8260B
1,2,3-Trichlorobenzene	Below det lim	ug/Kg	173	8/20/2002	KW	SW846 8260B
1,2,4-Trichlorobenzene	Below det lim	ug/Kg	173	8/20/2002	KW	SW846 8260B
1,1,1-Trichloroethane	Below det lim	ug/Kg	173	8/20/2002	KW	SW846 8260B
1,1,2-Trichloroethane	Below det lim	ug/Kg	173	8/20/2002	KW	SW846 8260B
Trichloroethene (TCE)	Below det lim	ug/Kg	173	8/20/2002	KW	SW846 8260B
Trichlorofluoromethane	Below det lim	ug/Kg	173	8/20/2002	KW	SW846 8260B
1,2,3-Trichloropropane	Below det lim	ug/Kg	173	8/20/2002	KW	SW846 8260B
1,2,4-Trimethylbenzene	Below det lim	ug/Kg	173	8/20/2002	KW	SW846 8260B
1,3,5-Trimethylbenzene	Below det lim	ug/Kg	173	8/20/2002	KW	SW846 8260B
Vinyl chloride	Below det lim	ug/Kg	173	8/20/2002	KW	SW846 8260B
m,p-Xylenes	Below det lim	ug/Kg	346	8/20/2002	KW	SW846 8260B
o-Xylene	Below det lim	ug/Kg	173	8/20/2002	KW	SW846 8260B
4-Bromofluorobenzene (%SR)	99	ug/Kg	0.000	8/20/2002	KW	SW846 8260B
1,4-Difluorobenzene (%SR)	100	ug/Kg	0.000	8/20/2002	KW	SW846 8260B
Chlorobenzene-d5 (%SR)	100	ug/Kg	0.000	8/20/2002	KW	SW846 8260B
TPH Preparation						
Ultrasonic Extraction	Completed			8/22/2002	RT	SW846 3550B
Petroleum Hydrocarbon Analysis						
Extractable TPH						
Total Petroleum Hydrocarbons (C9-C36)	590	mg/Kg	30	8/22/2002	JD	CT ETPH
Gasoline	Below det lim	mg/Kg	30	8/22/2002	JD	CT ETPH

Lab ID No: AD34401
Client Id: P2-2 (0-2)

Collection Date: 8/15/2002
Matrix Sediment

Parameter	Results	Units	PQL	Start Date	Analyst	Method
Fuel Oil #2	Below det lim	mg/Kg	30	8/22/2002	JD	CT ETPH
Fuel Oil #4	Below det lim	mg/Kg	30	8/22/2002	JD	CT ETPH
Fuel Oil #6	Below det lim	mg/Kg	30	8/22/2002	JD	CT ETPH
Motor Oil	*	mg/Kg	30	8/22/2002	JD	CT ETPH
Aviation Fuel	Below det lim	mg/Kg	30	8/22/2002	JD	CT ETPH
Unidentified	590	mg/Kg	30	8/22/2002	JD	CT ETPH
Other Oil	**	mg/Kg	30	8/22/2002	JD	CT ETPH
1-Chloro-octadecane (%SR)	76	mg/Kg	0.	8/22/2002	JD	CT ETPH
SVOC Preparation						
Ultrasonic Extraction	Completed			8/22/2002	RT	SW846 3550B
Semivolatile Organic Compounds						
PAHs by GC/MS						
Naphthalene	Below det lim	ug/Kg	314	8/22/2002	MSL	SW846 8270C
2-Methylnaphthalene	Below det lim	ug/Kg	314	8/22/2002	MSL	SW846 8270C
1-Methylnaphthalene	Below det lim	ug/Kg	314	8/22/2002	MSL	SW846 8270C
Acenaphthylene	Below det lim	ug/Kg	314	8/22/2002	MSL	SW846 8270C
Acenaphthene	2,500	ug/Kg	314	8/22/2002	MSL	SW846 8270C
Fluorene	3,100	ug/Kg	314	8/22/2002	MSL	SW846 8270C
Phenanthrene	17,000	ug/Kg	314	8/22/2002	MSL	SW846 8270C
Anthracene	4,900	ug/Kg	314	8/22/2002	MSL	SW846 8270C
Fluoranthene	15,000	ug/Kg	314	8/22/2002	MSL	SW846 8270C
Pyrene	13,000	ug/Kg	314	8/22/2002	MSL	SW846 8270C
Benzo (a) anthracene	7,400	ug/Kg	314	8/22/2002	MSL	SW846 8270C
Chrysene	6,900	ug/Kg	314	8/22/2002	MSL	SW846 8270C
Benzo (b) fluoranthene	6,000	ug/Kg	314	8/22/2002	MSL	SW846 8270C
Benzo (k) fluoranthene	3,500	ug/Kg	314	8/22/2002	MSL	SW846 8270C
Benzo (a) pyrene	5,300	ug/Kg	314	8/22/2002	MSL	SW846 8270C
Indeno (1,2,3-cd) pyrene	2,200	ug/Kg	314	8/22/2002	MSL	SW846 8270C
Dibenzo (a,h) anthracene	560	ug/Kg	314	8/22/2002	MSL	SW846 8270C
Benzo (g,h,i) perylene	2,300	ug/Kg	314	8/22/2002	MSL	SW846 8270C
2-Fluorobiphenyl (%SR)	58	ug/Kg	0.000	8/22/2002	MSL	SW846 8270C
Terphenyl-d14 (%SR)	72	ug/Kg	0.000	8/22/2002	MSL	SW846 8270C
Semivolatile Organic Compounds						
Polychlorinated Biphenyls by GC						
PCB-1016	Below det lim	ug/Kg	60	8/22/2002	TG	SW846 8082
PCB-1221	Below det lim	ug/Kg	60	8/22/2002	TG	SW846 8082
PCB-1232	Below det lim	ug/Kg	60	8/22/2002	TG	SW846 8082
PCB-1242	Below det lim	ug/Kg	60	8/22/2002	TG	SW846 8082
PCB-1248	Below det lim	ug/Kg	60	8/22/2002	TG	SW846 8082
PCB-1254	Below det lim	ug/Kg	60	8/22/2002	TG	SW846 8082
PCB-1260	Below det lim	ug/Kg	60	8/22/2002	TG	SW846 8082
Decachlorobiphenyl (%SR)	78	ug/Kg	0.00	8/22/2002	TG	SW846 8082

Lab ID No: AD34401
Client Id: P2-2 (0-2)

Collection Date: 8/15/2002
Matrix Sediment

Parameter	Results	Units	PQL	Start Date		Analyst	Method
Metals Preparation							
Mercury Digestion	Completed			8/22/2002		RB	EPA 245.1
Mercury Digestion on Leachate	Completed			8/21/2002		LFR	EPA 245.1
Metals Digestion	Completed			8/22/2002		RB	EPA 200.7
Metals Digestion on Leachate	Completed			8/21/2002		LFR	EPA 200.7
Metals Analysis							
SPLP RCRA8 Metals							
SPLP Arsenic	Below det lim	mg/L	0.015	8/22/2002		CRE	1312/200.7
SPLP Barium	Below det lim	mg/L	0.0355	8/22/2002		CRE	1312/200.7
SPLP Cadmium	Below det lim	mg/L	0.0025	8/22/2002		CRE	1312/200.7
SPLP Chromium	Below det lim	mg/L	0.005	8/22/2002		CRE	1312/200.7
SPLP Lead	Below det lim	mg/L	0.0075	8/22/2002		CRE	1312/200.7
SPLP Selenium	Below det lim	mg/L	0.015	8/22/2002		CRE	1312/200.7
SPLP Silver	Below det lim	mg/L	0.013	8/22/2002		CRE	1312/200.7
SPLP Mercury	Below det lim	mg/L	0.0004	8/23/2002		EPE	1312/245.1
Total RCRA8 Metals							
Total Arsenic	Below det lim	mg/Kg	4.61	8/22/2002		CRE	EPA 200.7
Total Barium	29.2	mg/Kg	1.54	8/22/2002		CRE	EPA 200.7
Total Cadmium	Below det lim	mg/Kg	0.768	8/22/2002		CRE	EPA 200.7
Total Chromium	24.0	mg/Kg	1.54	8/22/2002		CRE	EPA 200.7
Total Lead	21.1	mg/Kg	2.31	8/22/2002		CRE	EPA 200.7
Total Selenium	Below det lim	mg/Kg	8.95	8/22/2002		CRE	EPA 200.7
Total Silver	Below det lim	mg/Kg	4.18	8/22/2002		CRE	EPA 200.7
Total Mercury	Below det lim	mg/Kg	0.278	8/23/2002		EPE	EPA 245.1
General Chemistry							
Flash Point	>200	degree F	200	8/19/2002	7:00	JC	SW846 1010
Ignitability of Solids	Negative	pos/neg		8/19/2002	7:00	JC	SW846 1030
pH	7.73@20.5	pH Units		8/19/2002	7:00	JC	SW846 9045
TCLP/SPLP Preparation							
SPLP Extraction for Metals	Completed			8/20/2002		MP	SW846 1312
General Chemistry							
Reactivity - Cyanide/Sulfide							
Reactivity	Negative	mg/Kg		8/21/2002		ABW	SW846 7.3
Reactivity Cyanide	Below det lim	mg/Kg	0.42	8/21/2002		ABW	SW846 7.3
Reactivity Sulfide	Below det lim	mg/Kg	42	8/21/2002		ABW	SW846 7.3
% Solids	56.7	%		8/20/2002		BH	SM2540 B Mod

Lab ID No: AD34402
Client Id: P2-2 (5-7)

Collection Date: 8/15/2002
Matrix Sediment

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VOC Preparation						
VOC Extraction (solid)	Field ext			8/15/2002		SW846 5035
Volatile Organic Compounds						
VOCs by GC/MS						
Acetone	Below det lim	ug/Kg	3200	8/20/2002	KW	SW846 8260B
Acrylonitrile	Below det lim	ug/Kg	160	8/20/2002	KW	SW846 8260B
Benzene	Below det lim	ug/Kg	160	8/20/2002	KW	SW846 8260B
Bromobenzene	Below det lim	ug/Kg	160	8/20/2002	KW	SW846 8260B
Bromochloromethane	Below det lim	ug/Kg	160	8/20/2002	KW	SW846 8260B
Bromodichloromethane	Below det lim	ug/Kg	160	8/20/2002	KW	SW846 8260B
Bromoform	Below det lim	ug/Kg	160	8/20/2002	KW	SW846 8260B
Bromomethane	Below det lim	ug/Kg	320	8/20/2002	KW	SW846 8260B
2-Butanone (MEK)	Below det lim	ug/Kg	1600	8/20/2002	KW	SW846 8260B
n-Butylbenzene	Below det lim	ug/Kg	160	8/20/2002	KW	SW846 8260B
sec-Butylbenzene	Below det lim	ug/Kg	160	8/20/2002	KW	SW846 8260B
tert-Butylbenzene	Below det lim	ug/Kg	160	8/20/2002	KW	SW846 8260B
Carbon disulfide	Below det lim	ug/Kg	800	8/20/2002	KW	SW846 8260B
Carbon tetrachloride	Below det lim	ug/Kg	160	8/20/2002	KW	SW846 8260B
Chlorobenzene	Below det lim	ug/Kg	160	8/20/2002	KW	SW846 8260B
Chloroethane	Below det lim	ug/Kg	320	8/20/2002	KW	SW846 8260B
Chloroform	Below det lim	ug/Kg	160	8/20/2002	KW	SW846 8260B
Chloromethane	Below det lim	ug/Kg	320	8/20/2002	KW	SW846 8260B
2-Chlorotoluene	Below det lim	ug/Kg	160	8/20/2002	KW	SW846 8260B
4-Chlorotoluene	Below det lim	ug/Kg	160	8/20/2002	KW	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	Below det lim	ug/Kg	320	8/20/2002	KW	SW846 8260B
Dibromochloromethane	Below det lim	ug/Kg	160	8/20/2002	KW	SW846 8260B
1,2-Dibromoethane (EDB)	Below det lim	ug/Kg	160	8/20/2002	KW	SW846 8260B
Dibromomethane	Below det lim	ug/Kg	160	8/20/2002	KW	SW846 8260B
1,2-Dichlorobenzene	Below det lim	ug/Kg	160	8/20/2002	KW	SW846 8260B
1,3-Dichlorobenzene	Below det lim	ug/Kg	160	8/20/2002	KW	SW846 8260B
1,4-Dichlorobenzene	Below det lim	ug/Kg	160	8/20/2002	KW	SW846 8260B
Dichlorodifluoromethane	Below det lim	ug/Kg	320	8/20/2002	KW	SW846 8260B
1,1-Dichloroethane	Below det lim	ug/Kg	160	8/20/2002	KW	SW846 8260B
1,2-Dichloroethane	Below det lim	ug/Kg	160	8/20/2002	KW	SW846 8260B
1,1-Dichloroethene	Below det lim	ug/Kg	160	8/20/2002	KW	SW846 8260B
cis-1,2-Dichloroethene	Below det lim	ug/Kg	160	8/20/2002	KW	SW846 8260B
trans-1,2-Dichloroethene	Below det lim	ug/Kg	160	8/20/2002	KW	SW846 8260B
1,2-Dichloropropane	Below det lim	ug/Kg	160	8/20/2002	KW	SW846 8260B
1,3-Dichloropropane	Below det lim	ug/Kg	160	8/20/2002	KW	SW846 8260B
2,2-Dichloropropane	Below det lim	ug/Kg	160	8/20/2002	KW	SW846 8260B
1,1-Dichloropropene	Below det lim	ug/Kg	160	8/20/2002	KW	SW846 8260B
cis-1,3-Dichloropropene	Below det lim	ug/Kg	160	8/20/2002	KW	SW846 8260B

Lab ID No: AD34402
Client Id: P2-2 (5-7)

Collection Date: 8/15/2002
Matrix Sediment

Parameter	Results	Units	PQL	Start Date	Analyst	Method
trans-1,3-Dichloropropene	Below det lim	ug/Kg	160	8/20/2002	KW	SW846 8260B
Ethylbenzene	Below det lim	ug/Kg	160	8/20/2002	KW	SW846 8260B
Hexachlorobutadiene	Below det lim	ug/Kg	160	8/20/2002	KW	SW846 8260B
2-Hexanone (MBK)	Below det lim	ug/Kg	1600	8/20/2002	KW	SW846 8260B
Isopropylbenzene	Below det lim	ug/Kg	160	8/20/2002	KW	SW846 8260B
4-Isopropyltoluene	Below det lim	ug/Kg	160	8/20/2002	KW	SW846 8260B
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/Kg	160	8/20/2002	KW	SW846 8260B
4-Methyl-2-pentanone (MIBK)	Below det lim	ug/Kg	1600	8/20/2002	KW	SW846 8260B
Methylene chloride	Below det lim	ug/Kg	2000	8/20/2002	KW	SW846 8260B
Naphthalene	Below det lim	ug/Kg	160	8/20/2002	KW	SW846 8260B
n-Propylbenzene	Below det lim	ug/Kg	160	8/20/2002	KW	SW846 8260B
Styrene	Below det lim	ug/Kg	160	8/20/2002	KW	SW846 8260B
1,1,1,2-Tetrachloroethane	Below det lim	ug/Kg	160	8/20/2002	KW	SW846 8260B
1,1,2,2-Tetrachloroethane	Below det lim	ug/Kg	160	8/20/2002	KW	SW846 8260B
Tetrachloroethene (PCE)	Below det lim	ug/Kg	160	8/20/2002	KW	SW846 8260B
Toluene	Below det lim	ug/Kg	160	8/20/2002	KW	SW846 8260B
1,2,3-Trichlorobenzene	Below det lim	ug/Kg	160	8/20/2002	KW	SW846 8260B
1,2,4-Trichlorobenzene	Below det lim	ug/Kg	160	8/20/2002	KW	SW846 8260B
1,1,1-Trichloroethane	Below det lim	ug/Kg	160	8/20/2002	KW	SW846 8260B
1,1,2-Trichloroethane	Below det lim	ug/Kg	160	8/20/2002	KW	SW846 8260B
Trichloroethene (TCE)	Below det lim	ug/Kg	160	8/20/2002	KW	SW846 8260B
Trichlorofluoromethane	Below det lim	ug/Kg	160	8/20/2002	KW	SW846 8260B
1,2,3-Trichloropropane	Below det lim	ug/Kg	160	8/20/2002	KW	SW846 8260B
1,2,4-Trimethylbenzene	Below det lim	ug/Kg	160	8/20/2002	KW	SW846 8260B
1,3,5-Trimethylbenzene	Below det lim	ug/Kg	160	8/20/2002	KW	SW846 8260B
Vinyl chloride	Below det lim	ug/Kg	160	8/20/2002	KW	SW846 8260B
m,p-Xylenes	Below det lim	ug/Kg	320	8/20/2002	KW	SW846 8260B
o-Xylene	Below det lim	ug/Kg	160	8/20/2002	KW	SW846 8260B
4-Bromofluorobenzene (%SR)	97	ug/Kg	0.000	8/20/2002	KW	SW846 8260B
1,4-Difluorobenzene (%SR)	99	ug/Kg	0.000	8/20/2002	KW	SW846 8260B
Chlorobenzene-d5 (%SR)	98	ug/Kg	0.000	8/20/2002	KW	SW846 8260B
TPH Preparation						
Ultrasonic Extraction	Completed			8/22/2002	RT	SW846 3550B
Petroleum Hydrocarbon Analysis						
Extractable TPH						
Total Petroleum Hydrocarbons (C9-C36)	Below det lim	mg/Kg	20	8/22/2002	JD	CT ETPH
Gasoline	Below det lim	mg/Kg	20	8/22/2002	JD	CT ETPH
Fuel Oil #2	Below det lim	mg/Kg	20	8/22/2002	JD	CT ETPH
Fuel Oil #4	Below det lim	mg/Kg	20	8/22/2002	JD	CT ETPH
Fuel Oil #6	Below det lim	mg/Kg	20	8/22/2002	JD	CT ETPH
Motor Oil	Below det lim	mg/Kg	20	8/22/2002	JD	CT ETPH
Aviation Fuel	Below det lim	mg/Kg	20	8/22/2002	JD	CT ETPH

Lab ID No: AD34402 **Collection Date:** 8/15/2002
Client Id: P2-2 (5-7) **Matrix** Sediment

Parameter	Results	Units	PQL	Start Date	Analyst	Method
Unidentified	Below det lim	mg/Kg	20	8/22/2002	JD	CT ETPH
Other Oil	Below det lim	mg/Kg	20	8/22/2002	JD	CT ETPH
1-Chloro-octadecane (%SR)	65	mg/Kg	0.	8/22/2002	JD	CT ETPH
SVOC Preparation						
Ultrasonic Extraction	Completed			8/22/2002	RT	SW846 3550B
Semivolatile Organic Compounds						
PAHs by GC/MS						
Naphthalene	Below det lim	ug/Kg	278	8/22/2002	MSL	SW846 8270C
2-Methylnaphthalene	Below det lim	ug/Kg	278	8/22/2002	MSL	SW846 8270C
1-Methylnaphthalene	Below det lim	ug/Kg	278	8/22/2002	MSL	SW846 8270C
Acenaphthylene	Below det lim	ug/Kg	278	8/22/2002	MSL	SW846 8270C
Acenaphthene	Below det lim	ug/Kg	278	8/22/2002	MSL	SW846 8270C
Fluorene	Below det lim	ug/Kg	278	8/22/2002	MSL	SW846 8270C
Phenanthrene	Below det lim	ug/Kg	278	8/22/2002	MSL	SW846 8270C
Anthracene	Below det lim	ug/Kg	278	8/22/2002	MSL	SW846 8270C
Fluoranthene	Below det lim	ug/Kg	278	8/22/2002	MSL	SW846 8270C
Pyrene	Below det lim	ug/Kg	278	8/22/2002	MSL	SW846 8270C
Benzo (a) anthracene	Below det lim	ug/Kg	278	8/22/2002	MSL	SW846 8270C
Chrysene	Below det lim	ug/Kg	278	8/22/2002	MSL	SW846 8270C
Benzo (b) fluoranthene	Below det lim	ug/Kg	278	8/22/2002	MSL	SW846 8270C
Benzo (k) fluoranthene	Below det lim	ug/Kg	278	8/22/2002	MSL	SW846 8270C
Benzo (a) pyrene	Below det lim	ug/Kg	278	8/22/2002	MSL	SW846 8270C
Indeno (1,2,3-cd) pyrene	Below det lim	ug/Kg	278	8/22/2002	MSL	SW846 8270C
Dibenzo (a,h) anthracene	Below det lim	ug/Kg	278	8/22/2002	MSL	SW846 8270C
Benzo (g,h,i) perylene	Below det lim	ug/Kg	278	8/22/2002	MSL	SW846 8270C
2-Fluorobiphenyl (%SR)	62	ug/Kg	0.000	8/22/2002	MSL	SW846 8270C
Terphenyl-d14 (%SR)	49	ug/Kg	0.000	8/22/2002	MSL	SW846 8270C
Semivolatile Organic Compounds						
Polychlorinated Biphenyls by GC						
PCB-1016	Below det lim	ug/Kg	75	8/22/2002	TG	SW846 8082
PCB-1221	Below det lim	ug/Kg	75	8/22/2002	TG	SW846 8082
PCB-1232	Below det lim	ug/Kg	75	8/22/2002	TG	SW846 8082
PCB-1242	Below det lim	ug/Kg	75	8/22/2002	TG	SW846 8082
PCB-1248	Below det lim	ug/Kg	75	8/22/2002	TG	SW846 8082
PCB-1254	Below det lim	ug/Kg	75	8/22/2002	TG	SW846 8082
PCB-1260	Below det lim	ug/Kg	75	8/22/2002	TG	SW846 8082
Decachlorobiphenyl (%SR)	76	ug/Kg	0.00	8/22/2002	TG	SW846 8082
Metals Preparation						
Mercury Digestion	Completed			8/22/2002	RB	EPA 245.1
Mercury Digestion on Leachate	Completed			8/21/2002	LFR	EPA 245.1
Metals Digestion	Completed			8/22/2002	RB	EPA 200.7

Lab ID No: AD34402
Client Id: P2-2 (5-7)

Collection Date: 8/15/2002
Matrix Sediment

Parameter	Results	Units	PQL	Start Date		Analyst	Method
Metals Digestion on Leachate	Completed			8/21/2002		LFR	EPA 200.7
Metals Analysis							
SPLP RCRA8 Metals							
SPLP Arsenic	Below det lim	mg/L	0.015	8/22/2002		CRE	1312/200.7
SPLP Barium	Below det lim	mg/L	0.0448	8/22/2002		CRE	1312/200.7
SPLP Cadmium	Below det lim	mg/L	0.0025	8/22/2002		CRE	1312/200.7
SPLP Chromium	0.010	mg/L	0.005	8/22/2002		CRE	1312/200.7
SPLP Lead	Below det lim	mg/L	0.0075	8/22/2002		CRE	1312/200.7
SPLP Selenium	Below det lim	mg/L	0.015	8/22/2002		CRE	1312/200.7
SPLP Silver	Below det lim	mg/L	0.0133	8/22/2002		CRE	1312/200.7
SPLP Mercury	Below det lim	mg/L	0.0004	8/23/2002		EPE	1312/245.1
Total RCRA8 Metals							
Total Arsenic	Below det lim	mg/Kg	4.96	8/22/2002		CRE	EPA 200.7
Total Barium	36.1	mg/Kg	1.65	8/22/2002		CRE	EPA 200.7
Total Cadmium	Below det lim	mg/Kg	0.827	8/22/2002		CRE	EPA 200.7
Total Chromium	29.7	mg/Kg	1.65	8/22/2002		CRE	EPA 200.7
Total Lead	17.9	mg/Kg	2.48	8/22/2002		CRE	EPA 200.7
Total Selenium	Below det lim	mg/Kg	11.2	8/22/2002		CRE	EPA 200.7
Total Silver	Below det lim	mg/Kg	4.59	8/22/2002		CRE	EPA 200.7
Total Mercury	Below det lim	mg/Kg	0.300	8/23/2002		EPE	EPA 245.1
General Chemistry							
Flash Point	>200	degree F	200	8/19/2002	7:00	JC	SW846 1010
Ignitability of Solids	Negative	pos/neg		8/19/2002	7:00	JC	SW846 1030
pH	8.02@20.5	pH Units		8/19/2002	7:00	JC	SW846 9045
TCLP/SPLP Preparation							
SPLP Extraction for Metals	Completed			8/20/2002		MP	SW846 1312
General Chemistry							
Reactivity - Cyanide/Sulfide							
Reactivity	Negative	mg/Kg		8/21/2002		ABW	SW846 7.3
Reactivity Cyanide	Below det lim	mg/Kg	0.42	8/21/2002		ABW	SW846 7.3
Reactivity Sulfide	Below det lim	mg/Kg	42	8/21/2002		ABW	SW846 7.3
% Solids	54.9	%		8/20/2002		BH	SM2540 B Mod

Lab ID No: AD34403 **Collection Date:** 8/15/2002
Client Id: P2-2 (10-12) **Matrix** Sediment

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VOC Preparation						
VOC Extraction (solid)	Field ext			8/15/2002		SW846 5035
Volatile Organic Compounds						
VOCs by GC/MS						
Acetone	Below det lim	ug/Kg	3100	8/19/2002	KW	SW846 8260B
Acrylonitrile	Below det lim	ug/Kg	155	8/19/2002	KW	SW846 8260B
Benzene	Below det lim	ug/Kg	155	8/19/2002	KW	SW846 8260B
Bromobenzene	Below det lim	ug/Kg	155	8/19/2002	KW	SW846 8260B
Bromochloromethane	Below det lim	ug/Kg	155	8/19/2002	KW	SW846 8260B
Bromodichloromethane	Below det lim	ug/Kg	155	8/19/2002	KW	SW846 8260B
Bromoform	Below det lim	ug/Kg	155	8/19/2002	KW	SW846 8260B
Bromomethane	Below det lim	ug/Kg	310	8/19/2002	KW	SW846 8260B
2-Butanone (MEK)	Below det lim	ug/Kg	1550	8/19/2002	KW	SW846 8260B
n-Butylbenzene	Below det lim	ug/Kg	155	8/19/2002	KW	SW846 8260B
sec-Butylbenzene	Below det lim	ug/Kg	155	8/19/2002	KW	SW846 8260B
tert-Butylbenzene	Below det lim	ug/Kg	155	8/19/2002	KW	SW846 8260B
Carbon disulfide	Below det lim	ug/Kg	775	8/19/2002	KW	SW846 8260B
Carbon tetrachloride	Below det lim	ug/Kg	155	8/19/2002	KW	SW846 8260B
Chlorobenzene	Below det lim	ug/Kg	155	8/19/2002	KW	SW846 8260B
Chloroethane	Below det lim	ug/Kg	310	8/19/2002	KW	SW846 8260B
Chloroform	Below det lim	ug/Kg	155	8/19/2002	KW	SW846 8260B
Chloromethane	Below det lim	ug/Kg	310	8/19/2002	KW	SW846 8260B
2-Chlorotoluene	Below det lim	ug/Kg	155	8/19/2002	KW	SW846 8260B
4-Chlorotoluene	Below det lim	ug/Kg	155	8/19/2002	KW	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	Below det lim	ug/Kg	310	8/19/2002	KW	SW846 8260B
Dibromochloromethane	Below det lim	ug/Kg	155	8/19/2002	KW	SW846 8260B
1,2-Dibromoethane (EDB)	Below det lim	ug/Kg	155	8/19/2002	KW	SW846 8260B
Dibromomethane	Below det lim	ug/Kg	155	8/19/2002	KW	SW846 8260B
1,2-Dichlorobenzene	Below det lim	ug/Kg	155	8/19/2002	KW	SW846 8260B
1,3-Dichlorobenzene	Below det lim	ug/Kg	155	8/19/2002	KW	SW846 8260B
1,4-Dichlorobenzene	Below det lim	ug/Kg	155	8/19/2002	KW	SW846 8260B
Dichlorodifluoromethane	Below det lim	ug/Kg	310	8/19/2002	KW	SW846 8260B
1,1-Dichloroethane	Below det lim	ug/Kg	155	8/19/2002	KW	SW846 8260B
1,2-Dichloroethane	Below det lim	ug/Kg	155	8/19/2002	KW	SW846 8260B
1,1-Dichloroethene	Below det lim	ug/Kg	155	8/19/2002	KW	SW846 8260B
cis-1,2-Dichloroethene	Below det lim	ug/Kg	155	8/19/2002	KW	SW846 8260B
trans-1,2-Dichloroethene	Below det lim	ug/Kg	155	8/19/2002	KW	SW846 8260B
1,2-Dichloropropane	Below det lim	ug/Kg	155	8/19/2002	KW	SW846 8260B
1,3-Dichloropropane	Below det lim	ug/Kg	155	8/19/2002	KW	SW846 8260B
2,2-Dichloropropane	Below det lim	ug/Kg	155	8/19/2002	KW	SW846 8260B
1,1-Dichloropropene	Below det lim	ug/Kg	155	8/19/2002	KW	SW846 8260B
cis-1,3-Dichloropropene	Below det lim	ug/Kg	155	8/19/2002	KW	SW846 8260B

Lab ID No: AD34403 **Collection Date:** 8/15/2002
Client Id: P2-2 (10-12) **Matrix** Sediment

Parameter	Results	Units	PQL	Start Date	Analyst	Method
trans-1,3-Dichloropropene	Below det lim	ug/Kg	155	8/19/2002	KW	SW846 8260B
Ethylbenzene	Below det lim	ug/Kg	155	8/19/2002	KW	SW846 8260B
Hexachlorobutadiene	Below det lim	ug/Kg	155	8/19/2002	KW	SW846 8260B
2-Hexanone (MBK)	Below det lim	ug/Kg	1550	8/19/2002	KW	SW846 8260B
Isopropylbenzene	Below det lim	ug/Kg	155	8/19/2002	KW	SW846 8260B
4-Isopropyltoluene	Below det lim	ug/Kg	155	8/19/2002	KW	SW846 8260B
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/Kg	155	8/19/2002	KW	SW846 8260B
4-Methyl-2-pentanone (MIBK)	Below det lim	ug/Kg	1550	8/19/2002	KW	SW846 8260B
Methylene chloride	Below det lim	ug/Kg	2000	8/19/2002	KW	SW846 8260B
Naphthalene	Below det lim	ug/Kg	155	8/19/2002	KW	SW846 8260B
n-Propylbenzene	Below det lim	ug/Kg	155	8/19/2002	KW	SW846 8260B
Styrene	Below det lim	ug/Kg	155	8/19/2002	KW	SW846 8260B
1,1,1,2-Tetrachloroethane	Below det lim	ug/Kg	155	8/19/2002	KW	SW846 8260B
1,1,2,2-Tetrachloroethane	Below det lim	ug/Kg	155	8/19/2002	KW	SW846 8260B
Tetrachloroethene (PCE)	Below det lim	ug/Kg	155	8/19/2002	KW	SW846 8260B
Toluene	Below det lim	ug/Kg	155	8/19/2002	KW	SW846 8260B
1,2,3-Trichlorobenzene	Below det lim	ug/Kg	155	8/19/2002	KW	SW846 8260B
1,2,4-Trichlorobenzene	Below det lim	ug/Kg	155	8/19/2002	KW	SW846 8260B
1,1,1-Trichloroethane	Below det lim	ug/Kg	155	8/19/2002	KW	SW846 8260B
1,1,2-Trichloroethane	Below det lim	ug/Kg	155	8/19/2002	KW	SW846 8260B
Trichloroethene (TCE)	Below det lim	ug/Kg	155	8/19/2002	KW	SW846 8260B
Trichlorofluoromethane	Below det lim	ug/Kg	155	8/19/2002	KW	SW846 8260B
1,2,3-Trichloropropane	Below det lim	ug/Kg	155	8/19/2002	KW	SW846 8260B
1,2,4-Trimethylbenzene	Below det lim	ug/Kg	155	8/19/2002	KW	SW846 8260B
1,3,5-Trimethylbenzene	Below det lim	ug/Kg	155	8/19/2002	KW	SW846 8260B
Vinyl chloride	Below det lim	ug/Kg	155	8/19/2002	KW	SW846 8260B
m,p-Xylenes	Below det lim	ug/Kg	310	8/19/2002	KW	SW846 8260B
o-Xylene	Below det lim	ug/Kg	155	8/19/2002	KW	SW846 8260B
4-Bromofluorobenzene (%SR)	97	ug/Kg	0.000	8/19/2002	KW	SW846 8260B
1,4-Difluorobenzene (%SR)	99	ug/Kg	0.000	8/19/2002	KW	SW846 8260B
Chlorobenzene-d5 (%SR)	96	ug/Kg	0.000	8/19/2002	KW	SW846 8260B
TPH Preparation						
Ultrasonic Extraction	Completed			8/22/2002	RT	SW846 3550B
Petroleum Hydrocarbon Analysis						
Extractable TPH						
Total Petroleum Hydrocarbons (C9-C36)	Below det lim	mg/Kg	30	8/22/2002	JD	CT ETPH
Gasoline	Below det lim	mg/Kg	30	8/22/2002	JD	CT ETPH
Fuel Oil #2	Below det lim	mg/Kg	30	8/22/2002	JD	CT ETPH
Fuel Oil #4	Below det lim	mg/Kg	30	8/22/2002	JD	CT ETPH
Fuel Oil #6	Below det lim	mg/Kg	30	8/22/2002	JD	CT ETPH
Motor Oil	Below det lim	mg/Kg	30	8/22/2002	JD	CT ETPH
Aviation Fuel	Below det lim	mg/Kg	30	8/22/2002	JD	CT ETPH

Lab ID No: AD34403 **Collection Date:** 8/15/2002
Client Id: P2-2 (10-12) **Matrix** Sediment

Parameter	Results	Units	PQL	Start Date	Analyst	Method
Unidentified	Below det lim	mg/Kg	30	8/22/2002	JD	CT ETPH
Other Oil	Below det lim	mg/Kg	30	8/22/2002	JD	CT ETPH
1-Chloro-octadecane (%SR)	64	mg/Kg	0.	8/22/2002	JD	CT ETPH
Metals Preparation						
Mercury Digestion	Completed			8/22/2002	RB	EPA 245.1
Mercury Digestion on Leachate	Completed			8/21/2002	LFR	EPA 245.1
Metals Digestion	Completed			8/22/2002	RB	EPA 200.7
Metals Digestion on Leachate	Completed			8/21/2002	LFR	EPA 200.7
Metals Analysis						
SPLP RCRA8 Metals						
SPLP Arsenic	Below det lim	mg/L	0.015	8/22/2002	CRE	1312/200.7
SPLP Barium	Below det lim	mg/L	0.0991	8/22/2002	CRE	1312/200.7
SPLP Cadmium	Below det lim	mg/L	0.0025	8/22/2002	CRE	1312/200.7
SPLP Chromium	0.0306	mg/L	0.005	8/22/2002	CRE	1312/200.7
SPLP Lead	0.015	mg/L	0.0075	8/22/2002	CRE	1312/200.7
SPLP Selenium	Below det lim	mg/L	0.015	8/22/2002	CRE	1312/200.7
SPLP Silver	Below det lim	mg/L	0.0113	8/22/2002	CRE	1312/200.7
SPLP Mercury	Below det lim	mg/L	0.0004	8/23/2002	EPE	1312/245.1
Total RCRA8 Metals						
Total Arsenic	Below det lim	mg/Kg	4.61	8/22/2002	CRE	EPA 200.7
Total Barium	41.3	mg/Kg	1.54	8/22/2002	CRE	EPA 200.7
Total Cadmium	Below det lim	mg/Kg	0.768	8/22/2002	CRE	EPA 200.7
Total Chromium	31.3	mg/Kg	1.54	8/22/2002	CRE	EPA 200.7
Total Lead	20.6	mg/Kg	2.30	8/22/2002	CRE	EPA 200.7
Total Selenium	Below det lim	mg/Kg	10.2	8/22/2002	CRE	EPA 200.7
Total Silver	Below det lim	mg/Kg	3.15	8/22/2002	CRE	EPA 200.7
Total Mercury	Below det lim	mg/Kg	0.275	8/23/2002	EPE	EPA 245.1
TCLP/SPLP Preparation						
SPLP Extraction for Metals	Completed			8/20/2002	MP	SW846 1312
% Solids	56.6	%		8/20/2002	BH	SM2540 B Mod

Lab ID No: AD34404
Client Id: P2-2 (25-27)

Collection Date: 8/15/2002
Matrix Sediment

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VOC Preparation						
VOC Extraction (solid)	Field ext			8/15/2002		SW846 5035
Volatile Organic Compounds						
VOCs by GC/MS						
Acetone	Below det lim	ug/Kg	3180	8/20/2002	KW	SW846 8260B
Acrylonitrile	Below det lim	ug/Kg	159	8/20/2002	KW	SW846 8260B
Benzene	Below det lim	ug/Kg	159	8/20/2002	KW	SW846 8260B
Bromobenzene	Below det lim	ug/Kg	159	8/20/2002	KW	SW846 8260B
Bromochloromethane	Below det lim	ug/Kg	159	8/20/2002	KW	SW846 8260B
Bromodichloromethane	Below det lim	ug/Kg	159	8/20/2002	KW	SW846 8260B
Bromoform	Below det lim	ug/Kg	159	8/20/2002	KW	SW846 8260B
Bromomethane	Below det lim	ug/Kg	318	8/20/2002	KW	SW846 8260B
2-Butanone (MEK)	Below det lim	ug/Kg	1590	8/20/2002	KW	SW846 8260B
n-Butylbenzene	Below det lim	ug/Kg	159	8/20/2002	KW	SW846 8260B
sec-Butylbenzene	Below det lim	ug/Kg	159	8/20/2002	KW	SW846 8260B
tert-Butylbenzene	Below det lim	ug/Kg	159	8/20/2002	KW	SW846 8260B
Carbon disulfide	Below det lim	ug/Kg	795	8/20/2002	KW	SW846 8260B
Carbon tetrachloride	Below det lim	ug/Kg	159	8/20/2002	KW	SW846 8260B
Chlorobenzene	Below det lim	ug/Kg	159	8/20/2002	KW	SW846 8260B
Chloroethane	Below det lim	ug/Kg	318	8/20/2002	KW	SW846 8260B
Chloroform	Below det lim	ug/Kg	159	8/20/2002	KW	SW846 8260B
Chloromethane	Below det lim	ug/Kg	318	8/20/2002	KW	SW846 8260B
2-Chlorotoluene	Below det lim	ug/Kg	159	8/20/2002	KW	SW846 8260B
4-Chlorotoluene	Below det lim	ug/Kg	159	8/20/2002	KW	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	Below det lim	ug/Kg	318	8/20/2002	KW	SW846 8260B
Dibromochloromethane	Below det lim	ug/Kg	159	8/20/2002	KW	SW846 8260B
1,2-Dibromoethane (EDB)	Below det lim	ug/Kg	159	8/20/2002	KW	SW846 8260B
Dibromomethane	Below det lim	ug/Kg	159	8/20/2002	KW	SW846 8260B
1,2-Dichlorobenzene	Below det lim	ug/Kg	159	8/20/2002	KW	SW846 8260B
1,3-Dichlorobenzene	Below det lim	ug/Kg	159	8/20/2002	KW	SW846 8260B
1,4-Dichlorobenzene	Below det lim	ug/Kg	159	8/20/2002	KW	SW846 8260B
Dichlorodifluoromethane	Below det lim	ug/Kg	318	8/20/2002	KW	SW846 8260B
1,1-Dichloroethane	Below det lim	ug/Kg	159	8/20/2002	KW	SW846 8260B
1,2-Dichloroethane	Below det lim	ug/Kg	159	8/20/2002	KW	SW846 8260B
1,1-Dichloroethene	Below det lim	ug/Kg	159	8/20/2002	KW	SW846 8260B
cis-1,2-Dichloroethene	Below det lim	ug/Kg	159	8/20/2002	KW	SW846 8260B
trans-1,2-Dichloroethene	Below det lim	ug/Kg	159	8/20/2002	KW	SW846 8260B
1,2-Dichloropropane	Below det lim	ug/Kg	159	8/20/2002	KW	SW846 8260B
1,3-Dichloropropane	Below det lim	ug/Kg	159	8/20/2002	KW	SW846 8260B
2,2-Dichloropropane	Below det lim	ug/Kg	159	8/20/2002	KW	SW846 8260B
1,1-Dichloropropene	Below det lim	ug/Kg	159	8/20/2002	KW	SW846 8260B
cis-1,3-Dichloropropene	Below det lim	ug/Kg	159	8/20/2002	KW	SW846 8260B

Lab ID No: AD34404 **Collection Date:** 8/15/2002
Client Id: P2-2 (25-27) **Matrix** Sediment

Parameter	Results	Units	PQL	Start Date	Analyst	Method
trans-1,3-Dichloropropene	Below det lim	ug/Kg	159	8/20/2002	KW	SW846 8260B
Ethylbenzene	Below det lim	ug/Kg	159	8/20/2002	KW	SW846 8260B
Hexachlorobutadiene	Below det lim	ug/Kg	159	8/20/2002	KW	SW846 8260B
2-Hexanone (MBK)	Below det lim	ug/Kg	1590	8/20/2002	KW	SW846 8260B
Isopropylbenzene	Below det lim	ug/Kg	159	8/20/2002	KW	SW846 8260B
4-Isopropyltoluene	Below det lim	ug/Kg	159	8/20/2002	KW	SW846 8260B
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/Kg	159	8/20/2002	KW	SW846 8260B
4-Methyl-2-pentanone (MIBK)	Below det lim	ug/Kg	1590	8/20/2002	KW	SW846 8260B
Methylene chloride	Below det lim	ug/Kg	280	8/20/2002	KW	SW846 8260B
Naphthalene	Below det lim	ug/Kg	159	8/20/2002	KW	SW846 8260B
n-Propylbenzene	Below det lim	ug/Kg	159	8/20/2002	KW	SW846 8260B
Styrene	Below det lim	ug/Kg	159	8/20/2002	KW	SW846 8260B
1,1,1,2-Tetrachloroethane	Below det lim	ug/Kg	159	8/20/2002	KW	SW846 8260B
1,1,2,2-Tetrachloroethane	Below det lim	ug/Kg	159	8/20/2002	KW	SW846 8260B
Tetrachloroethene (PCE)	Below det lim	ug/Kg	159	8/20/2002	KW	SW846 8260B
Toluene	Below det lim	ug/Kg	159	8/20/2002	KW	SW846 8260B
1,2,3-Trichlorobenzene	Below det lim	ug/Kg	159	8/20/2002	KW	SW846 8260B
1,2,4-Trichlorobenzene	Below det lim	ug/Kg	159	8/20/2002	KW	SW846 8260B
1,1,1-Trichloroethane	Below det lim	ug/Kg	159	8/20/2002	KW	SW846 8260B
1,1,2-Trichloroethane	Below det lim	ug/Kg	159	8/20/2002	KW	SW846 8260B
Trichloroethene (TCE)	Below det lim	ug/Kg	159	8/20/2002	KW	SW846 8260B
Trichlorofluoromethane	Below det lim	ug/Kg	159	8/20/2002	KW	SW846 8260B
1,2,3-Trichloropropane	Below det lim	ug/Kg	159	8/20/2002	KW	SW846 8260B
1,2,4-Trimethylbenzene	Below det lim	ug/Kg	159	8/20/2002	KW	SW846 8260B
1,3,5-Trimethylbenzene	Below det lim	ug/Kg	159	8/20/2002	KW	SW846 8260B
Vinyl chloride	Below det lim	ug/Kg	159	8/20/2002	KW	SW846 8260B
m,p-Xylenes	Below det lim	ug/Kg	318	8/20/2002	KW	SW846 8260B
o-Xylene	Below det lim	ug/Kg	159	8/20/2002	KW	SW846 8260B
4-Bromofluorobenzene (%SR)	96	ug/Kg	0.000	8/20/2002	KW	SW846 8260B
1,4-Difluorobenzene (%SR)	100	ug/Kg	0.000	8/20/2002	KW	SW846 8260B
Chlorobenzene-d5 (%SR)	95	ug/Kg	0.000	8/20/2002	KW	SW846 8260B
TPH Preparation						
Ultrasonic Extraction	Completed			8/22/2002	RT	SW846 3550B
Petroleum Hydrocarbon Analysis						
Extractable TPH						
Total Petroleum Hydrocarbons (C9-C36)	Below det lim	mg/Kg	30	8/22/2002	JD	CT ETPH
Gasoline	Below det lim	mg/Kg	30	8/22/2002	JD	CT ETPH
Fuel Oil #2	Below det lim	mg/Kg	30	8/22/2002	JD	CT ETPH
Fuel Oil #4	Below det lim	mg/Kg	30	8/22/2002	JD	CT ETPH
Fuel Oil #6	Below det lim	mg/Kg	30	8/22/2002	JD	CT ETPH
Motor Oil	Below det lim	mg/Kg	30	8/22/2002	JD	CT ETPH
Aviation Fuel	Below det lim	mg/Kg	30	8/22/2002	JD	CT ETPH

Lab ID No: AD34404 **Collection Date:** 8/15/2002
Client Id: P2-2 (25-27) **Matrix** Sediment

Parameter	Results	Units	PQL	Start Date	Analyst	Method
Unidentified	Below det lim	mg/Kg	30	8/22/2002	JD	CT ETPH
Other Oil	Below det lim	mg/Kg	30	8/22/2002	JD	CT ETPH
1-Chloro-octadecane (%SR)	63	mg/Kg	0.	8/22/2002	JD	CT ETPH
Metals Preparation						
Mercury Digestion	Completed			8/22/2002	RB	EPA 245.1
Mercury Digestion on Leachate	Completed			8/21/2002	LFR	EPA 245.1
Metals Digestion	Completed			8/22/2002	RB	EPA 200.7
Metals Digestion on Leachate	Completed			8/21/2002	LFR	EPA 200.7
Metals Analysis						
SPLP RCRA8 Metals						
SPLP Arsenic	Below det lim	mg/L	0.015	8/22/2002	CRE	1312/200.7
SPLP Barium	Below det lim	mg/L	0.0489	8/22/2002	CRE	1312/200.7
SPLP Cadmium	Below det lim	mg/L	0.0025	8/22/2002	CRE	1312/200.7
SPLP Chromium	0.010	mg/L	0.005	8/22/2002	CRE	1312/200.7
SPLP Lead	Below det lim	mg/L	0.0075	8/22/2002	CRE	1312/200.7
SPLP Selenium	Below det lim	mg/L	0.015	8/22/2002	CRE	1312/200.7
SPLP Silver	Below det lim	mg/L	0.0111	8/22/2002	CRE	1312/200.7
SPLP Mercury	Below det lim	mg/L	0.0004	8/23/2002	EPE	1312/245.1
Total RCRA8 Metals						
Total Arsenic	Below det lim	mg/Kg	5.03	8/22/2002	CRE	EPA 200.7
Total Barium	21.5	mg/Kg	1.68	8/22/2002	CRE	EPA 200.7
Total Cadmium	Below det lim	mg/Kg	0.838	8/22/2002	CRE	EPA 200.7
Total Chromium	20.8	mg/Kg	1.68	8/22/2002	CRE	EPA 200.7
Total Lead	14.0	mg/Kg	2.51	8/22/2002	CRE	EPA 200.7
Total Selenium	Below det lim	mg/Kg	8.15	8/22/2002	CRE	EPA 200.7
Total Silver	Below det lim	mg/Kg	3.57	8/22/2002	CRE	EPA 200.7
Total Mercury	Below det lim	mg/Kg	0.269	8/23/2002	EPE	EPA 245.1
TCLP/SPLP Preparation						
SPLP Extraction for Metals	Completed			8/20/2002	MP	SW846 1312
% Solids	57.6	%		8/20/2002	BH	SM2540 B Mod

Lab ID No: AD34405 **Collection Date:** 8/15/2002
Client Id: P2-2 (35-37) **Matrix** Sediment

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VOC Preparation						
VOC Extraction (solid)	Field ext			8/15/2002		SW846 5035
Volatile Organic Compounds						
VOCs by GC/MS						
Acetone	Below det lim	ug/Kg	1040	8/19/2002	KW	SW846 8260B
Acrylonitrile	Below det lim	ug/Kg	52.0	8/19/2002	KW	SW846 8260B
Benzene	Below det lim	ug/Kg	52.0	8/19/2002	KW	SW846 8260B
Bromobenzene	Below det lim	ug/Kg	52.0	8/19/2002	KW	SW846 8260B
Bromochloromethane	Below det lim	ug/Kg	52.0	8/19/2002	KW	SW846 8260B
Bromodichloromethane	Below det lim	ug/Kg	52.0	8/19/2002	KW	SW846 8260B
Bromoform	Below det lim	ug/Kg	52.0	8/19/2002	KW	SW846 8260B
Bromomethane	Below det lim	ug/Kg	104	8/19/2002	KW	SW846 8260B
2-Butanone (MEK)	Below det lim	ug/Kg	520	8/19/2002	KW	SW846 8260B
n-Butylbenzene	Below det lim	ug/Kg	52.0	8/19/2002	KW	SW846 8260B
sec-Butylbenzene	Below det lim	ug/Kg	52.0	8/19/2002	KW	SW846 8260B
tert-Butylbenzene	Below det lim	ug/Kg	52.0	8/19/2002	KW	SW846 8260B
Carbon disulfide	Below det lim	ug/Kg	260	8/19/2002	KW	SW846 8260B
Carbon tetrachloride	Below det lim	ug/Kg	52.0	8/19/2002	KW	SW846 8260B
Chlorobenzene	Below det lim	ug/Kg	52.0	8/19/2002	KW	SW846 8260B
Chloroethane	Below det lim	ug/Kg	104	8/19/2002	KW	SW846 8260B
Chloroform	Below det lim	ug/Kg	52.0	8/19/2002	KW	SW846 8260B
Chloromethane	Below det lim	ug/Kg	104	8/19/2002	KW	SW846 8260B
2-Chlorotoluene	Below det lim	ug/Kg	52.0	8/19/2002	KW	SW846 8260B
4-Chlorotoluene	Below det lim	ug/Kg	52.0	8/19/2002	KW	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	Below det lim	ug/Kg	104	8/19/2002	KW	SW846 8260B
Dibromochloromethane	Below det lim	ug/Kg	52.0	8/19/2002	KW	SW846 8260B
1,2-Dibromoethane (EDB)	Below det lim	ug/Kg	52.0	8/19/2002	KW	SW846 8260B
Dibromomethane	Below det lim	ug/Kg	52.0	8/19/2002	KW	SW846 8260B
1,2-Dichlorobenzene	Below det lim	ug/Kg	52.0	8/19/2002	KW	SW846 8260B
1,3-Dichlorobenzene	Below det lim	ug/Kg	52.0	8/19/2002	KW	SW846 8260B
1,4-Dichlorobenzene	Below det lim	ug/Kg	52.0	8/19/2002	KW	SW846 8260B
Dichlorodifluoromethane	Below det lim	ug/Kg	104	8/19/2002	KW	SW846 8260B
1,1-Dichloroethane	Below det lim	ug/Kg	52.0	8/19/2002	KW	SW846 8260B
1,2-Dichloroethane	Below det lim	ug/Kg	52.0	8/19/2002	KW	SW846 8260B
1,1-Dichloroethene	Below det lim	ug/Kg	52.0	8/19/2002	KW	SW846 8260B
cis-1,2-Dichloroethene	Below det lim	ug/Kg	52.0	8/19/2002	KW	SW846 8260B
trans-1,2-Dichloroethene	Below det lim	ug/Kg	52.0	8/19/2002	KW	SW846 8260B
1,2-Dichloropropane	Below det lim	ug/Kg	52.0	8/19/2002	KW	SW846 8260B
1,3-Dichloropropane	Below det lim	ug/Kg	52.0	8/19/2002	KW	SW846 8260B
2,2-Dichloropropane	Below det lim	ug/Kg	52.0	8/19/2002	KW	SW846 8260B
1,1-Dichloropropene	Below det lim	ug/Kg	52.0	8/19/2002	KW	SW846 8260B
cis-1,3-Dichloropropene	Below det lim	ug/Kg	52.0	8/19/2002	KW	SW846 8260B

Lab ID No: AD34405 **Collection Date:** 8/15/2002
Client Id: P2-2 (35-37) **Matrix** Sediment

Parameter	Results	Units	PQL	Start Date	Analyst	Method
trans-1,3-Dichloropropene	Below det lim	ug/Kg	52.0	8/19/2002	KW	SW846 8260B
Ethylbenzene	Below det lim	ug/Kg	52.0	8/19/2002	KW	SW846 8260B
Hexachlorobutadiene	Below det lim	ug/Kg	52.0	8/19/2002	KW	SW846 8260B
2-Hexanone (MBK)	Below det lim	ug/Kg	520	8/19/2002	KW	SW846 8260B
Isopropylbenzene	Below det lim	ug/Kg	52.0	8/19/2002	KW	SW846 8260B
4-Isopropyltoluene	Below det lim	ug/Kg	52.0	8/19/2002	KW	SW846 8260B
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/Kg	52.0	8/19/2002	KW	SW846 8260B
4-Methyl-2-pentanone (MIBK)	Below det lim	ug/Kg	520	8/19/2002	KW	SW846 8260B
Methylene chloride	Below det lim	ug/Kg	70.0	8/19/2002	KW	SW846 8260B
Naphthalene	Below det lim	ug/Kg	52.0	8/19/2002	KW	SW846 8260B
n-Propylbenzene	Below det lim	ug/Kg	52.0	8/19/2002	KW	SW846 8260B
Styrene	Below det lim	ug/Kg	52.0	8/19/2002	KW	SW846 8260B
1,1,1,2-Tetrachloroethane	Below det lim	ug/Kg	52.0	8/19/2002	KW	SW846 8260B
1,1,2,2-Tetrachloroethane	Below det lim	ug/Kg	52.0	8/19/2002	KW	SW846 8260B
Tetrachloroethene (PCE)	Below det lim	ug/Kg	52.0	8/19/2002	KW	SW846 8260B
Toluene	Below det lim	ug/Kg	52.0	8/19/2002	KW	SW846 8260B
1,2,3-Trichlorobenzene	Below det lim	ug/Kg	52.0	8/19/2002	KW	SW846 8260B
1,2,4-Trichlorobenzene	Below det lim	ug/Kg	52.0	8/19/2002	KW	SW846 8260B
1,1,1-Trichloroethane	Below det lim	ug/Kg	52.0	8/19/2002	KW	SW846 8260B
1,1,2-Trichloroethane	Below det lim	ug/Kg	52.0	8/19/2002	KW	SW846 8260B
Trichloroethene (TCE)	Below det lim	ug/Kg	52.0	8/19/2002	KW	SW846 8260B
Trichlorofluoromethane	Below det lim	ug/Kg	52.0	8/19/2002	KW	SW846 8260B
1,2,3-Trichloropropane	Below det lim	ug/Kg	52.0	8/19/2002	KW	SW846 8260B
1,2,4-Trimethylbenzene	Below det lim	ug/Kg	52.0	8/19/2002	KW	SW846 8260B
1,3,5-Trimethylbenzene	Below det lim	ug/Kg	52.0	8/19/2002	KW	SW846 8260B
Vinyl chloride	Below det lim	ug/Kg	52.0	8/19/2002	KW	SW846 8260B
m,p-Xylenes	Below det lim	ug/Kg	104	8/19/2002	KW	SW846 8260B
o-Xylene	Below det lim	ug/Kg	52.0	8/19/2002	KW	SW846 8260B
4-Bromofluorobenzene (%SR)	97	ug/Kg	0.000	8/19/2002	KW	SW846 8260B
1,4-Difluorobenzene (%SR)	100	ug/Kg	0.000	8/19/2002	KW	SW846 8260B
Chlorobenzene-d5 (%SR)	94	ug/Kg	0.000	8/19/2002	KW	SW846 8260B
TPH Preparation						
Ultrasonic Extraction	Completed			8/22/2002	RT	SW846 3550B
Petroleum Hydrocarbon Analysis						
Extractable TPH						
Total Petroleum Hydrocarbons (C9-C36)	Below det lim	mg/Kg	20	8/22/2002	JD	CT ETPH
Gasoline	Below det lim	mg/Kg	20	8/22/2002	JD	CT ETPH
Fuel Oil #2	Below det lim	mg/Kg	20	8/22/2002	JD	CT ETPH
Fuel Oil #4	Below det lim	mg/Kg	20	8/22/2002	JD	CT ETPH
Fuel Oil #6	Below det lim	mg/Kg	20	8/22/2002	JD	CT ETPH
Motor Oil	Below det lim	mg/Kg	20	8/22/2002	JD	CT ETPH
Aviation Fuel	Below det lim	mg/Kg	20	8/22/2002	JD	CT ETPH

Lab ID No: AD34405 **Collection Date:** 8/15/2002
Client Id: P2-2 (35-37) **Matrix** Sediment

Parameter	Results	Units	PQL	Start Date	Analyst	Method
Unidentified	Below det lim	mg/Kg	20	8/22/2002	JD	CT ETPH
Other Oil	Below det lim	mg/Kg	20	8/22/2002	JD	CT ETPH
1-Chloro-octadecane (%SR)	68	mg/Kg	0.	8/22/2002	JD	CT ETPH
Metals Preparation						
Mercury Digestion	Completed			8/22/2002	RB	EPA 245.1
Mercury Digestion on Leachate	Completed			8/21/2002	LFR	EPA 245.1
Metals Digestion	Completed			8/22/2002	RB	EPA 200.7
Metals Digestion on Leachate	Completed			8/21/2002	LFR	EPA 200.7
Metals Analysis						
SPLP RCRA8 Metals						
SPLP Arsenic	Below det lim	mg/L	0.015	8/22/2002	CRE	1312/200.7
SPLP Barium	Below det lim	mg/L	0.0168	8/22/2002	CRE	1312/200.7
SPLP Cadmium	Below det lim	mg/L	0.0025	8/22/2002	CRE	1312/200.7
SPLP Chromium	Below det lim	mg/L	0.005	8/22/2002	CRE	1312/200.7
SPLP Lead	Below det lim	mg/L	0.0075	8/22/2002	CRE	1312/200.7
SPLP Selenium	Below det lim	mg/L	0.015	8/22/2002	CRE	1312/200.7
SPLP Silver	Below det lim	mg/L	0.0212	8/22/2002	CRE	1312/200.7
SPLP Mercury	Below det lim	mg/L	0.0004	8/23/2002	EPE	1312/245.1
Total RCRA8 Metals						
Total Arsenic	Below det lim	mg/Kg	3.23	8/22/2002	CRE	EPA 200.7
Total Barium	9.35	mg/Kg	1.08	8/22/2002	CRE	EPA 200.7
Total Cadmium	Below det lim	mg/Kg	0.539	8/22/2002	CRE	EPA 200.7
Total Chromium	3.05	mg/Kg	1.08	8/22/2002	CRE	EPA 200.7
Total Lead	Below det lim	mg/Kg	1.62	8/22/2002	CRE	EPA 200.7
Total Selenium	Below det lim	mg/Kg	3.23	8/22/2002	CRE	EPA 200.7
Total Silver	Below det lim	mg/Kg	2.95	8/22/2002	CRE	EPA 200.7
Total Mercury	Below det lim	mg/Kg	0.196	8/23/2002	EPE	EPA 245.1
TCLP/SPLP Preparation						
SPLP Extraction for Metals	Completed			8/20/2002	MP	SW846 1312
% Solids	87.6	%		8/20/2002	BH	SM2540 B Mod

Lab ID No: AD34406
Client Id: P2-2 (40-42)

Collection Date: 8/15/2002
Matrix Sediment

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VOC Preparation						
VOC Extraction (solid)	Field ext			8/15/2002		SW846 5035
Volatile Organic Compounds						
VOCs by GC/MS						
Acetone	Below det lim	ug/Kg	860	8/19/2002	KW	SW846 8260B
Acrylonitrile	Below det lim	ug/Kg	43.0	8/19/2002	KW	SW846 8260B
Benzene	Below det lim	ug/Kg	43.0	8/19/2002	KW	SW846 8260B
Bromobenzene	Below det lim	ug/Kg	43.0	8/19/2002	KW	SW846 8260B
Bromochloromethane	Below det lim	ug/Kg	43.0	8/19/2002	KW	SW846 8260B
Bromodichloromethane	Below det lim	ug/Kg	43.0	8/19/2002	KW	SW846 8260B
Bromoform	Below det lim	ug/Kg	43.0	8/19/2002	KW	SW846 8260B
Bromomethane	Below det lim	ug/Kg	86.0	8/19/2002	KW	SW846 8260B
2-Butanone (MEK)	Below det lim	ug/Kg	430	8/19/2002	KW	SW846 8260B
n-Butylbenzene	Below det lim	ug/Kg	43.0	8/19/2002	KW	SW846 8260B
sec-Butylbenzene	Below det lim	ug/Kg	43.0	8/19/2002	KW	SW846 8260B
tert-Butylbenzene	Below det lim	ug/Kg	43.0	8/19/2002	KW	SW846 8260B
Carbon disulfide	Below det lim	ug/Kg	215	8/19/2002	KW	SW846 8260B
Carbon tetrachloride	Below det lim	ug/Kg	43.0	8/19/2002	KW	SW846 8260B
Chlorobenzene	Below det lim	ug/Kg	43.0	8/19/2002	KW	SW846 8260B
Chloroethane	Below det lim	ug/Kg	86.0	8/19/2002	KW	SW846 8260B
Chloroform	Below det lim	ug/Kg	43.0	8/19/2002	KW	SW846 8260B
Chloromethane	Below det lim	ug/Kg	86.0	8/19/2002	KW	SW846 8260B
2-Chlorotoluene	Below det lim	ug/Kg	43.0	8/19/2002	KW	SW846 8260B
4-Chlorotoluene	Below det lim	ug/Kg	43.0	8/19/2002	KW	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	Below det lim	ug/Kg	86.0	8/19/2002	KW	SW846 8260B
Dibromochloromethane	Below det lim	ug/Kg	43.0	8/19/2002	KW	SW846 8260B
1,2-Dibromoethane (EDB)	Below det lim	ug/Kg	43.0	8/19/2002	KW	SW846 8260B
Dibromomethane	Below det lim	ug/Kg	43.0	8/19/2002	KW	SW846 8260B
1,2-Dichlorobenzene	Below det lim	ug/Kg	43.0	8/19/2002	KW	SW846 8260B
1,3-Dichlorobenzene	Below det lim	ug/Kg	43.0	8/19/2002	KW	SW846 8260B
1,4-Dichlorobenzene	Below det lim	ug/Kg	43.0	8/19/2002	KW	SW846 8260B
Dichlorodifluoromethane	Below det lim	ug/Kg	86.0	8/19/2002	KW	SW846 8260B
1,1-Dichloroethane	Below det lim	ug/Kg	43.0	8/19/2002	KW	SW846 8260B
1,2-Dichloroethane	Below det lim	ug/Kg	43.0	8/19/2002	KW	SW846 8260B
1,1-Dichloroethene	Below det lim	ug/Kg	43.0	8/19/2002	KW	SW846 8260B
cis-1,2-Dichloroethene	Below det lim	ug/Kg	43.0	8/19/2002	KW	SW846 8260B
trans-1,2-Dichloroethene	Below det lim	ug/Kg	43.0	8/19/2002	KW	SW846 8260B
1,2-Dichloropropane	Below det lim	ug/Kg	43.0	8/19/2002	KW	SW846 8260B
1,3-Dichloropropane	Below det lim	ug/Kg	43.0	8/19/2002	KW	SW846 8260B
2,2-Dichloropropane	Below det lim	ug/Kg	43.0	8/19/2002	KW	SW846 8260B
1,1-Dichloropropene	Below det lim	ug/Kg	43.0	8/19/2002	KW	SW846 8260B
cis-1,3-Dichloropropene	Below det lim	ug/Kg	43.0	8/19/2002	KW	SW846 8260B

Lab ID No: AD34406 **Collection Date:** 8/15/2002
Client Id: P2-2 (40-42) **Matrix** Sediment

Parameter	Results	Units	PQL	Start Date	Analyst	Method
trans-1,3-Dichloropropene	Below det lim	ug/Kg	43.0	8/19/2002	KW	SW846 8260B
Ethylbenzene	Below det lim	ug/Kg	43.0	8/19/2002	KW	SW846 8260B
Hexachlorobutadiene	Below det lim	ug/Kg	43.0	8/19/2002	KW	SW846 8260B
2-Hexanone (MBK)	Below det lim	ug/Kg	430	8/19/2002	KW	SW846 8260B
Isopropylbenzene	Below det lim	ug/Kg	43.0	8/19/2002	KW	SW846 8260B
4-Isopropyltoluene	Below det lim	ug/Kg	43.0	8/19/2002	KW	SW846 8260B
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/Kg	43.0	8/19/2002	KW	SW846 8260B
4-Methyl-2-pentanone (MIBK)	Below det lim	ug/Kg	430	8/19/2002	KW	SW846 8260B
Methylene chloride	Below det lim	ug/Kg	60.0	8/19/2002	KW	SW846 8260B
Naphthalene	Below det lim	ug/Kg	43.0	8/19/2002	KW	SW846 8260B
n-Propylbenzene	Below det lim	ug/Kg	43.0	8/19/2002	KW	SW846 8260B
Styrene	Below det lim	ug/Kg	43.0	8/19/2002	KW	SW846 8260B
1,1,1,2-Tetrachloroethane	Below det lim	ug/Kg	43.0	8/19/2002	KW	SW846 8260B
1,1,2,2-Tetrachloroethane	Below det lim	ug/Kg	43.0	8/19/2002	KW	SW846 8260B
Tetrachloroethene (PCE)	Below det lim	ug/Kg	43.0	8/19/2002	KW	SW846 8260B
Toluene	Below det lim	ug/Kg	43.0	8/19/2002	KW	SW846 8260B
1,2,3-Trichlorobenzene	Below det lim	ug/Kg	43.0	8/19/2002	KW	SW846 8260B
1,2,4-Trichlorobenzene	Below det lim	ug/Kg	43.0	8/19/2002	KW	SW846 8260B
1,1,1-Trichloroethane	Below det lim	ug/Kg	43.0	8/19/2002	KW	SW846 8260B
1,1,2-Trichloroethane	Below det lim	ug/Kg	43.0	8/19/2002	KW	SW846 8260B
Trichloroethene (TCE)	Below det lim	ug/Kg	43.0	8/19/2002	KW	SW846 8260B
Trichlorofluoromethane	Below det lim	ug/Kg	43.0	8/19/2002	KW	SW846 8260B
1,2,3-Trichloropropane	Below det lim	ug/Kg	43.0	8/19/2002	KW	SW846 8260B
1,2,4-Trimethylbenzene	Below det lim	ug/Kg	43.0	8/19/2002	KW	SW846 8260B
1,3,5-Trimethylbenzene	Below det lim	ug/Kg	43.0	8/19/2002	KW	SW846 8260B
Vinyl chloride	Below det lim	ug/Kg	43.0	8/19/2002	KW	SW846 8260B
m,p-Xylenes	Below det lim	ug/Kg	86.0	8/19/2002	KW	SW846 8260B
o-Xylene	Below det lim	ug/Kg	43.0	8/19/2002	KW	SW846 8260B
4-Bromofluorobenzene (%SR)	95	ug/Kg	0.000	8/19/2002	KW	SW846 8260B
1,4-Difluorobenzene (%SR)	99	ug/Kg	0.000	8/19/2002	KW	SW846 8260B
Chlorobenzene-d5 (%SR)	93	ug/Kg	0.000	8/19/2002	KW	SW846 8260B
TPH Preparation						
Ultrasonic Extraction	Completed			8/22/2002	RT	SW846 3550B
Petroleum Hydrocarbon Analysis						
Extractable TPH						
Total Petroleum Hydrocarbons (C9-C36)	Below det lim	mg/Kg	20	8/22/2002	JD	CT ETPH
Gasoline	Below det lim	mg/Kg	20	8/22/2002	JD	CT ETPH
Fuel Oil #2	Below det lim	mg/Kg	20	8/22/2002	JD	CT ETPH
Fuel Oil #4	Below det lim	mg/Kg	20	8/22/2002	JD	CT ETPH
Fuel Oil #6	Below det lim	mg/Kg	20	8/22/2002	JD	CT ETPH
Motor Oil	Below det lim	mg/Kg	20	8/22/2002	JD	CT ETPH
Aviation Fuel	Below det lim	mg/Kg	20	8/22/2002	JD	CT ETPH

Lab ID No: AD34406
Client Id: P2-2 (40-42)

Collection Date: 8/15/2002
Matrix Sediment

Parameter	Results	Units	PQL	Start Date	Analyst	Method
Unidentified	Below det lim	mg/Kg	20	8/22/2002	JD	CT ETPH
Other Oil	Below det lim	mg/Kg	20	8/22/2002	JD	CT ETPH
1-Chloro-octadecane (%SR)	79	mg/Kg	0.	8/22/2002	JD	CT ETPH
Metals Preparation						
Mercury Digestion	Completed			8/22/2002	RB	EPA 245.1
Mercury Digestion on Leachate	Completed			8/21/2002	LFR	EPA 245.1
Metals Digestion	Completed			8/22/2002	RB	EPA 200.7
Metals Digestion on Leachate	Completed			8/21/2002	LFR	EPA 200.7
Metals Analysis						
SPLP RCRA8 Metals						
SPLP Arsenic	Below det lim	mg/L	0.015	8/22/2002	CRE	1312/200.7
SPLP Barium	Below det lim	mg/L	0.0204	8/22/2002	CRE	1312/200.7
SPLP Cadmium	Below det lim	mg/L	0.0025	8/22/2002	CRE	1312/200.7
SPLP Chromium	Below det lim	mg/L	0.005	8/22/2002	CRE	1312/200.7
SPLP Lead	Below det lim	mg/L	0.0075	8/22/2002	CRE	1312/200.7
SPLP Selenium	Below det lim	mg/L	0.015	8/22/2002	CRE	1312/200.7
SPLP Silver	Below det lim	mg/L	0.0164	8/22/2002	CRE	1312/200.7
SPLP Mercury	Below det lim	mg/L	0.0004	8/23/2002	EPE	1312/245.1
Total RCRA8 Metals						
Total Arsenic	Below det lim	mg/Kg	2.87	8/22/2002	CRE	EPA 200.7
Total Barium	8.80	mg/Kg	0.957	8/22/2002	CRE	EPA 200.7
Total Cadmium	Below det lim	mg/Kg	0.479	8/22/2002	CRE	EPA 200.7
Total Chromium	3.00	mg/Kg	0.957	8/22/2002	CRE	EPA 200.7
Total Lead	Below det lim	mg/Kg	1.44	8/22/2002	CRE	EPA 200.7
Total Selenium	Below det lim	mg/Kg	3.03	8/22/2002	CRE	EPA 200.7
Total Silver	Below det lim	mg/Kg	2.85	8/22/2002	CRE	EPA 200.7
Total Mercury	Below det lim	mg/Kg	0.185	8/23/2002	EPE	EPA 245.1
TCLP/SPLP Preparation						
SPLP Extraction for Metals	Completed			8/20/2002	MP	SW846 1312
% Solids	90.7	%		8/21/2002	BH	SM2540 B Mod

Reviewed by:

Quality Service/Quality Assurance Depts.

Validated by:

President/Laboratory Director

8/23/2002

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

Laboratory Report Supplement

Interpretation of Total Petroleum Hydrocarbon Report

Petroleum identification is determined by comparing the GC fingerprint obtained from the sample with a library of GC fingerprints obtained from analyses of various petroleum products. Possible match categories are as follows:

Gasoline – includes regular, unleaded, premium, etc.
Fuel Oil #2 – includes home heating oil, #2 fuel oil, and diesel
Fuel Oil #4 – includes #4 fuel oil
Fuel Oil #6 – includes #6 fuel oil and bunker "C" oil
Motor Oil – includes virgin and waste automobile oil
Ligroin – includes mineral spirits, petroleum naphtha, vm&p naphtha
Aviation Fuel – includes kerosene, Jet A and JP-4
Other Oil – includes lubricating and cutting oil, and silicon oil

Factors such as microbial degradation, weathering and solubility generally prevent specific identification within a petroleum category. A finding of "unidentified" means that the sample fingerprint was characteristic of a petroleum product, but could not be matched to a fingerprint in our library.

After identification, the amount present in the sample is quantified using a calibration curve prepared from a petroleum product of the same category as the identified petroleum. Unidentified petroleum is quantified using a petroleum calibration that approximates the distribution of compounds in the sample. A * in the results column indicates the primary petroleum fingerprint calibration used to quantify unidentified samples. A ** in the results column indicates the secondary petroleum fingerprint calibration used to quantify unidentified samples. A *** in the results column indicates the tertiary petroleum fingerprint calibration used to quantify unidentified samples.

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

Laboratory Report Supplement
References

SW 846	Test Methods for Evaluating Solid Waste. Third edition, 1998
40 CFR 136	Guidelines Establishing Test Procedures for the Analysis of Pollutants Under the Clean Water Act
40 CFR 141	National Primary Drinking Water Regulations
40 CFR 143	National Secondary Drinking Water Regulations
40 CFR 160	Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), Good Laboratory Practice Standards
APHA-AWWA-WPCF	Standard Methods for the Examination of Water and Wastewater. 19th edition, 1995
ASTM D 3328	Standard Methods for the Comparison of Waterborne Petroleum Oils by Gas Chromatography
EPA 540/G-87/003	Data Quality Objectives for Remediation Response Activities, Development Process
EPA 600/4-79-012	Quality Assurance Handbook for Analytical Quality Control in Water and Wastewater Laboratories
EPA 600/4-79-019	Handbook for Analytical Quality Control in Water and Wastewater Laboratories
EPA 600/4-79-020	Method for the Chemical Analysis of Water and Wastes
EPA 600/4-82-057	Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater
EPA 600/4-85/056	Choosing Cost-Effective QA/QC Programs for Chemical Analysis
EPA 600/4-88/039	Method for the Determination of Organic Compounds in Drinking Water
CT ETPH	Analysis of Extractable Total Petroleum Hydrocarbons (ETPH)
MADEP EPH	Method for the Determination of Extractable Petroleum Hydrocarbons (EPH)
MADEP VPH	Method for the Determination of Volatile Petroleum Hydrocarbons (VPH)
QAMS 004/80	Guidelines and Specifications for Preparing Quality Assurance Program Plans, USEPA Office of Monitoring System and Quality Assurance
GC-D-52-77	Oil Spill Identification System

Acronyms & Abbreviations

AA	Atomic Absorption
ASTM	American Society for Testing and Materials
BOD	Biological Oxygen Demand
°C	degree(s) Celsius
COD	Chemical Oxygen Demand
CMR	Code of Massachusetts Regulations
DEP	Department of Environmental Protection
DI	De-ionized
DO	Dissolved Oxygen
EPA	Environmental Protection Agency
EPH	Extractable Petroleum Hydrocarbons
FID	Flame Ionization Detector
GC	Gas Chromatograph
GC / MS	Gas Chromatograph / Mass Spectrometer
ICP	Inductively Coupled Plasma
Id	Identification
MCL	Maximum Contaminant Level
MDL	Minimum Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
NTU	Nephelometric Turbidity Units
PAHs	Polynuclear Aromatic Hydrocarbons
PCBs	Polychlorinated Biphenyls
PID	Photo Ionization Detector
PQL	Practical Quantitation Limit
R	Recovery (%R: Percent Recovery)
RSD	Relative Standard Deviation
SM	Standard Method
SR	Surrogate Recovery (%SR)
SW	Solid Waste
THM	Trihalomethane(s)
TOC	Total Organic Carbon
TOX	Total Organic Halogen
TPH	Total Petroleum Hydrocarbons
VOC	Volatile Organic Compound
VPH	Volatile Petroleum Hydrocarbons

Definitions

Equipment Blank:	A sample of analyte-free media, which has been used to rinse the sampling equipment. It is collected after completion of decontamination and prior to sampling. This blank is useful in documenting adequate decontamination of sampling equipment.
Field Duplicate:	Independent samples, which are collected as close as possible to the same point in space and time. They are two separate samples taken from the same source, stored in separate containers, and analyzed independently. These duplicates are useful in documenting the precision of the sampling process.
Laboratory Control Sample (LCS):	A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.
Matrix Duplicate:	An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.
Matrix Spike:	An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.
Matrix Spike Duplicates:	Intra-laboratory split of samples spiked with identical concentrations of target analyte(s). The spiking occurs prior to sample preparation and analysis. They are used to document the precision and bias of a method in a given sample matrix.
Method Blank:	An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.
Method Detection Limit (MDL):	The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.
Practical Quantitation Limit (PQL):	The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. The PQL is generally 5 to 10 times the MDL. However, it may be nominally chosen within these guidelines to simplify data reporting. For many analytes the PQL analyte concentration is selected as the lowest non-zero standard in the calibration curve. Sample PQLs are highly matrix-dependent.
Precision:	The agreement among a set of replicate measurements without assumption of knowledge of the true value. Precision is estimated by means of duplicate/replicate analyses. These samples should contain concentrations of analyte above the MDL, and may involve the use of matrix spikes. The Relative Percent Difference (%RPD) is used to estimate the precision between two samples.
Surrogate:	An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.
Trip Blank:	A sample of analyte-free media taken from the laboratory to the sampling site and returned to the laboratory unopened. A trip blank is used to document contamination attributable to shipping and field handling procedures. This type of blank is useful in documenting contamination of volatile organic samples.

08161539 EIO

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Special Handling: 5 days
☐ Standard TAT - ~~7 to 10 business days~~ CT DOT
☐ Rush TAT - Date Needed: _____
· All TATs subject to laboratory approval.
· Min. 24-hour notification needed for rushes.
· All samples are disposed of after 60 days unless otherwise instructed.

Page 1 of 1

Report To: David Williams CEI
100 Shield Street
West Hartford CT 06110

Project Mgr.: David Williams

Invoice To: Michelle Malone

22080932

P.O. No.: _____ RQN: _____

Project No.: A2100 1607
Site Name: West River Bridge
Location: West/New Haven State: CT
Sampler(s): David Williams

1=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid
7=CH_3OH 8= $NaHSO_4$ 9= NONE 10= Methanol

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW= Surface Water SO=Soil SL=Sludge A=Air
X1=_____ X2= sediment X3=_____

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Preservative	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	CT ETPH	SPLP Extraction RCRA 8 metals	VOC's - 8260-5035	PAH's - 8270	reactivity (cyanide plus reactive sulfide)	ignitability (flash pt)	Corrosivity (pH)	Mass-8 RCRA metals	PCB's - 8082	Notes:
AC 34401	P7-2 (0-2")	8/15/02		G	X2	10/4	1		1		X	X	X	X	X	X	X	X	X	
AC 34402	P7-2 (5-7')	"		G	X2	10/4	1		2		X	X	X	X	X	X	X	X	X	
AC 34403	P7-2 (10-12')	"		G	X2	10/4	1		1		X	X	X					X		
AC 34404	P7-2 (25-27)	"		G	X2	10/4	1		1		X	X	X					X		
AC 34405	P7-2 (35-37)	"		G	X2	10/4	1		1		X	X	X					X		
AC 34406	P7-2 (40-42')	"		G	X2	10/4	1		1		X	X	X					X		
AC																				
AC																				
AC																				
AC																				

Relinquished by:	Received by:	Date:	Time:
[signature]	CEE Fridge	8-16-02	
[signature]	[signature]	8-16-02	1140
[signature]	[signature]	8/16/02	1310

☐ Fax results when available to (860) 953-7407
☐ E-mail results when available to _____
Condition upon Receipt: ☐ Iced ☐ Ambient ☐ 14 °C FNG

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

Massachusetts Certification # M-MA138
Rhode Island # 98 Maine # MA138
Florida # E87600 / 87562
New Hampshire # 2538
Connecticut # PH-0777
New York # 11393

RECEIVED
SEP 09 2002
CONSULTING ENVIRONMENTAL ENGINEERS, INC.

Consulting Environmental
100 Shield Street
West Hartford, CT 06110

Attn: David Williams

Wednesday, September 04, 2002

Report Status:
☑ Final Report
☐ Re-issued Report
☐ Revised Report

Client Project Number: A2100160 **Location:** West River Bridge - CT

Laboratory ID	Client Sample ID	Analyses Requested
AD35948	P2-1 (0-2)	VOCs by GC/MS VOC Extraction (solid) Reactivity - Cyanide/Sulfide Ignitability of Solids pH Metals Digestion Mercury Digestion Total Mercury Polychlorinated Biphenyls by GC Ultrasonic Extraction % Solids Flash Point Total RCRA8 Metals
AD35949	P2-1 (5-7)	VOCs by GC/MS VOC Extraction (solid) Reactivity - Cyanide/Sulfide Ignitability of Solids pH Metals Digestion Mercury Digestion Total Mercury Polychlorinated Biphenyls by GC Ultrasonic Extraction % Solids Extractable TPH Ultrasonic Extraction

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

Client Project Number: A2100160 **Location:** West River Bridge - CT

Laboratory ID	Client Sample ID	Analyses Requested
AD35949	P2-1 (5-7)	SPLP Extraction for Metals Metals Digestion on Leachate Mercury Digestion on Leachate SPLP RCRA8 Metals SPLP Mercury PAHs by GC/MS Flash Point Total RCRA8 Metals
AD35950	P2-1 (17-19)	Extractable TPH Ultrasonic Extraction SPLP Extraction for Metals Metals Digestion on Leachate Mercury Digestion on Leachate SPLP RCRA8 Metals SPLP Mercury VOCs by GC/MS VOC Extraction (solid) Metals Digestion Mercury Digestion Total Mercury % Solids
AD35951	P2-1 (27-29)	Total RCRA8 Metals Extractable TPH Ultrasonic Extraction SPLP Extraction for Metals Metals Digestion on Leachate Mercury Digestion on Leachate SPLP RCRA8 Metals SPLP Mercury VOCs by GC/MS VOC Extraction (solid) Metals Digestion Mercury Digestion Total Mercury % Solids

ENVIRONMENTAL ANALYSES
11 Almgren Drive • Agawam, Massachusetts 01001 • 1-800-789-9115 • 413-789-9018 • Fax 413-789-4076

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

Client Project Number: A2100160 **Location:** West River Bridge - CT

Laboratory ID	Client Sample ID	Analyses Requested
AD35951	P2-1 (27-29)	Total RCRA8 Metals
AD35952	P2-1 (30-32)	Extractable TPH
		Ultrasonic Extraction
		SPLP Extraction for Metals
		Metals Digestion on Leachate
		Mercury Digestion on Leachate
		SPLP RCRA8 Metals
		SPLP Mercury
		VOCs by GC/MS
		VOC Extraction (solid)
		Metals Digestion
		Mercury Digestion
		Total Mercury
		% Solids
		Total RCRA8 Metals
AD35953	P2-1 (35-37)	Extractable TPH
		Ultrasonic Extraction
		SPLP Extraction for Metals
		Metals Digestion on Leachate
		Mercury Digestion on Leachate
		SPLP RCRA8 Metals
		SPLP Mercury
		VOCs by GC/MS
		VOC Extraction (solid)
		Metals Digestion
		Mercury Digestion
		Total Mercury
		% Solids
		Total RCRA8 Metals

11 Almgren Drive • Agawam, Massachusetts 01001 • 1-800-789-9115 • 413-789-9018 • Fax 413-789-4076

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

Client Project Number: A2100160 **Location:** West River Bridge - CT

Laboratory ID	Client Sample ID	Analyses Requested

I attest that all information contained within this report has been reviewed for accuracy and checked against all quality control requirements outlined in each applicable method and meet the requirements of NELAC including any data obtained from a subcontract laboratory. Please note that all solid matrix sample results are calculated on a dry weight basis unless otherwise specified.

This report may not be reproduced, except in full, without written approval from Spectrum Analytical, Inc.

Authorized by:

Hanibal C. Tayeh, Ph.D.
President/Laboratory Director

11 Almgren Drive • Agawam, Massachusetts 01001 • 1-800-789-9115 • 413-789-9018 • Fax 413-789-4076

SPECTRUM ANALYTICAL, INC.

Laboratory Report

RECEIVED
SEP 2002
CONSULTING ENVIRONMENTAL ENGINEERS, INC.

Location: West River Bridge - CT
Client: CEE
Lab ID No: AD35948
Client Id: P2-1 (0-2)

Client Project No: SA2100160
Submittal Date: 8/23/2002
Collection Date: 8/21/2002
Matrix Sediment

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VOC Preparation						
VOC Extraction (solid)	Field ext			8/21/2002		SW846 5035
Volatile Organic Compounds						
VOCs by GC/MS						
Acetone	Below det lim	ug/Kg	4780	8/27/2002	CH	SW846 8260B
Acrylonitrile	Below det lim	ug/Kg	239	8/27/2002	CH	SW846 8260B
Benzene	Below det lim	ug/Kg	239	8/27/2002	CH	SW846 8260B
Bromobenzene	Below det lim	ug/Kg	239	8/27/2002	CH	SW846 8260B
Bromochloromethane	Below det lim	ug/Kg	239	8/27/2002	CH	SW846 8260B
Bromodichloromethane	Below det lim	ug/Kg	239	8/27/2002	CH	SW846 8260B
Bromoform	Below det lim	ug/Kg	239	8/27/2002	CH	SW846 8260B
Bromomethane	Below det lim	ug/Kg	478	8/27/2002	CH	SW846 8260B
2-Butanone (MEK)	Below det lim	ug/Kg	2390	8/27/2002	CH	SW846 8260B
n-Butylbenzene	Below det lim	ug/Kg	239	8/27/2002	CH	SW846 8260B
sec-Butylbenzene	Below det lim	ug/Kg	239	8/27/2002	CH	SW846 8260B
tert-Butylbenzene	Below det lim	ug/Kg	239	8/27/2002	CH	SW846 8260B
Carbon disulfide	Below det lim	ug/Kg	1200	8/27/2002	CH	SW846 8260B
Carbon tetrachloride	Below det lim	ug/Kg	239	8/27/2002	CH	SW846 8260B
Chlorobenzene	Below det lim	ug/Kg	239	8/27/2002	CH	SW846 8260B
Chloroethane	Below det lim	ug/Kg	478	8/27/2002	CH	SW846 8260B
Chloroform	Below det lim	ug/Kg	239	8/27/2002	CH	SW846 8260B
Chloromethane	Below det lim	ug/Kg	478	8/27/2002	CH	SW846 8260B
2-Chlorotoluene	Below det lim	ug/Kg	239	8/27/2002	CH	SW846 8260B
4-Chlorotoluene	Below det lim	ug/Kg	239	8/27/2002	CH	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	Below det lim	ug/Kg	478	8/27/2002	CH	SW846 8260B
Dibromochloromethane	Below det lim	ug/Kg	239	8/27/2002	CH	SW846 8260B
1,2-Dibromoethane (EDB)	Below det lim	ug/Kg	239	8/27/2002	CH	SW846 8260B
Dibromomethane	Below det lim	ug/Kg	239	8/27/2002	CH	SW846 8260B
1,2-Dichlorobenzene	Below det lim	ug/Kg	239	8/27/2002	CH	SW846 8260B
1,3-Dichlorobenzene	Below det lim	ug/Kg	239	8/27/2002	CH	SW846 8260B
1,4-Dichlorobenzene	Below det lim	ug/Kg	239	8/27/2002	CH	SW846 8260B
Dichlorodifluoromethane	Below det lim	ug/Kg	478	8/27/2002	CH	SW846 8260B
1,1-Dichloroethane	Below det lim	ug/Kg	239	8/27/2002	CH	SW846 8260B
1,2-Dichloroethane	Below det lim	ug/Kg	239	8/27/2002	CH	SW846 8260B
1,1-Dichloroethene	Below det lim	ug/Kg	239	8/27/2002	CH	SW846 8260B
cis-1,2-Dichloroethene	Below det lim	ug/Kg	239	8/27/2002	CH	SW846 8260B

Lab ID No: AD35948
Client Id: P2-1 (0-2)

Collection Date: 8/21/2002
Matrix Sediment

Parameter	Results	Units	PQL	Start Date	Analyst	Method
trans-1,2-Dichloroethene	Below det lim	ug/Kg	239	8/27/2002	CH	SW846 8260B
1,2-Dichloropropane	Below det lim	ug/Kg	239	8/27/2002	CH	SW846 8260B
1,3-Dichloropropane	Below det lim	ug/Kg	239	8/27/2002	CH	SW846 8260B
2,2-Dichloropropane	Below det lim	ug/Kg	239	8/27/2002	CH	SW846 8260B
1,1-Dichloropropene	Below det lim	ug/Kg	239	8/27/2002	CH	SW846 8260B
cis-1,3-Dichloropropene	Below det lim	ug/Kg	239	8/27/2002	CH	SW846 8260B
trans-1,3-Dichloropropene	Below det lim	ug/Kg	239	8/27/2002	CH	SW846 8260B
Ethylbenzene	Below det lim	ug/Kg	239	8/27/2002	CH	SW846 8260B
Hexachlorobutadiene	Below det lim	ug/Kg	239	8/27/2002	CH	SW846 8260B
2-Hexanone (MBK)	Below det lim	ug/Kg	2390	8/27/2002	CH	SW846 8260B
Isopropylbenzene	Below det lim	ug/Kg	239	8/27/2002	CH	SW846 8260B
4-Isopropyltoluene	Below det lim	ug/Kg	239	8/27/2002	CH	SW846 8260B
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/Kg	239	8/27/2002	CH	SW846 8260B
4-Methyl-2-pentanone (MIBK)	Below det lim	ug/Kg	2390	8/27/2002	CH	SW846 8260B
Methylene chloride	Below det lim	ug/Kg	450	8/27/2002	CH	SW846 8260B
Naphthalene	Below det lim	ug/Kg	239	8/27/2002	CH	SW846 8260B
n-Propylbenzene	Below det lim	ug/Kg	239	8/27/2002	CH	SW846 8260B
Styrene	Below det lim	ug/Kg	239	8/27/2002	CH	SW846 8260B
1,1,1,2-Tetrachloroethane	Below det lim	ug/Kg	239	8/27/2002	CH	SW846 8260B
1,1,2,2-Tetrachloroethane	Below det lim	ug/Kg	239	8/27/2002	CH	SW846 8260B
Tetrachloroethene (PCE)	Below det lim	ug/Kg	239	8/27/2002	CH	SW846 8260B
Toluene	Below det lim	ug/Kg	239	8/27/2002	CH	SW846 8260B
1,2,3-Trichlorobenzene	Below det lim	ug/Kg	239	8/27/2002	CH	SW846 8260B
1,2,4-Trichlorobenzene	Below det lim	ug/Kg	239	8/27/2002	CH	SW846 8260B
1,1,1-Trichloroethane	Below det lim	ug/Kg	239	8/27/2002	CH	SW846 8260B
1,1,2-Trichloroethane	Below det lim	ug/Kg	239	8/27/2002	CH	SW846 8260B
Trichloroethene (TCE)	Below det lim	ug/Kg	239	8/27/2002	CH	SW846 8260B
Trichlorofluoromethane	Below det lim	ug/Kg	239	8/27/2002	CH	SW846 8260B
1,2,3-Trichloropropane	Below det lim	ug/Kg	239	8/27/2002	CH	SW846 8260B
1,2,4-Trimethylbenzene	Below det lim	ug/Kg	239	8/27/2002	CH	SW846 8260B
1,3,5-Trimethylbenzene	Below det lim	ug/Kg	239	8/27/2002	CH	SW846 8260B
Vinyl chloride	Below det lim	ug/Kg	239	8/27/2002	CH	SW846 8260B
m,p-Xylenes	Below det lim	ug/Kg	478	8/27/2002	CH	SW846 8260B
o-Xylene	Below det lim	ug/Kg	239	8/27/2002	CH	SW846 8260B
4-Bromofluorobenzene (%SR)	79	ug/Kg	0.000	8/27/2002	CH	SW846 8260B
1,4-Difluorobenzene (%SR)	106	ug/Kg	0.000	8/27/2002	CH	SW846 8260B
Chlorobenzene-d5 (%SR)	94	ug/Kg	0.000	8/27/2002	CH	SW846 8260B
SVOC Preparation						
Ultrasonic Extraction	Completed			8/27/2002	RT	SW846 3550B
Semivolatile Organic Compounds						
Polychlorinated Biphenyls by GC						

Lab ID No: AD35948
Client Id: P2-1 (0-2)

Collection Date: 8/21/2002
Matrix Sediment

Parameter	Results	Units	PQL	Start Date		Analyst	Method
PCB-1016	Below det lim	ug/Kg	90	8/28/2002		TG	SW846 8082
PCB-1221	Below det lim	ug/Kg	90	8/28/2002		TG	SW846 8082
PCB-1232	Below det lim	ug/Kg	90	8/28/2002		TG	SW846 8082
PCB-1242	Below det lim	ug/Kg	90	8/28/2002		TG	SW846 8082
PCB-1248	Below det lim	ug/Kg	90	8/28/2002		TG	SW846 8082
PCB-1254	Below det lim	ug/Kg	90	8/28/2002		TG	SW846 8082
PCB-1260	130	ug/Kg	90	8/28/2002		TG	SW846 8082
Decachlorobiphenyl (%SR)	126	ug/Kg	0.00	8/28/2002		TG	SW846 8082
Metals Preparation							
Mercury Digestion	Completed			8/28/2002		KL	EPA 245.1
Metals Digestion	Completed			8/28/2002		KL	EPA 200.7
Metals Analysis							
Total RCRA8 Metals							
Total Arsenic	Below det lim	mg/Kg	11.8	8/30/2002		KSR	EPA 200.8
Total Barium	23.7	mg/Kg	0.777	8/30/2002		KSR	EPA 200.8
Total Cadmium	Below det lim	mg/Kg	0.777	8/30/2002		KSR	EPA 200.8
Total Chromium	51.2	mg/Kg	0.932	8/30/2002		KSR	EPA 200.8
Total Lead	170	mg/Kg	0.466	8/30/2002		KSR	EPA 200.8
Total Selenium	Below det lim	mg/Kg	2.48	8/30/2002		KSR	EPA 200.8
Total Silver	Below det lim	mg/Kg	0.621	8/30/2002		KSR	EPA 200.8
Total Mercury	0.564	mg/Kg	0.285	8/29/2002		EPR	EPA 245.1
General Chemistry							
Flash Point	>200	degree F	200	8/27/2002	7:15	JC	SW846 1010
Ignitability of Solids	Negative	pos/neg		8/27/2002	7:15	JC	SW846 1030
pH	8.48@19.7	pH Units		8/27/2002	7:15	JC	SW846 9045
General Chemistry							
Reactivity - Cyanide/Sulfide							
Reactivity	Negative	mg/Kg		8/27/2002		AW	SW846 7.3
Reactivity Cyanide	Below det lim	mg/Kg	0.86	8/27/2002		AW	SW846 7.3
Reactivity Sulfide	240	mg/Kg	86	8/27/2002		AW	SW846 7.3
% Solids	57.9	%		8/26/2002		BH	SM2540 B Mod

Lab ID No: AD35949
Client Id: P2-1 (5-7)

Collection Date: 8/21/2002
Matrix Sediment

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VOC Preparation						
VOC Extraction (solid)	Field ext			8/21/2002		SW846 5035
Volatile Organic Compounds						
VOCs by GC/MS						
Acetone	Below det lim	ug/Kg	3840	8/27/2002	KW	SW846 8260B
Acrylonitrile	Below det lim	ug/Kg	192	8/27/2002	KW	SW846 8260B
Benzene	Below det lim	ug/Kg	192	8/27/2002	KW	SW846 8260B
Bromobenzene	Below det lim	ug/Kg	192	8/27/2002	KW	SW846 8260B
Bromochloromethane	Below det lim	ug/Kg	192	8/27/2002	KW	SW846 8260B
Bromodichloromethane	Below det lim	ug/Kg	192	8/27/2002	KW	SW846 8260B
Bromoform	Below det lim	ug/Kg	192	8/27/2002	KW	SW846 8260B
Bromomethane	Below det lim	ug/Kg	384	8/27/2002	KW	SW846 8260B
2-Butanone (MEK)	Below det lim	ug/Kg	1920	8/27/2002	KW	SW846 8260B
n-Butylbenzene	Below det lim	ug/Kg	192	8/27/2002	KW	SW846 8260B
sec-Butylbenzene	Below det lim	ug/Kg	192	8/27/2002	KW	SW846 8260B
tert-Butylbenzene	Below det lim	ug/Kg	192	8/27/2002	KW	SW846 8260B
Carbon disulfide	Below det lim	ug/Kg	960	8/27/2002	KW	SW846 8260B
Carbon tetrachloride	Below det lim	ug/Kg	192	8/27/2002	KW	SW846 8260B
Chlorobenzene	Below det lim	ug/Kg	192	8/27/2002	KW	SW846 8260B
Chloroethane	Below det lim	ug/Kg	384	8/27/2002	KW	SW846 8260B
Chloroform	Below det lim	ug/Kg	192	8/27/2002	KW	SW846 8260B
Chloromethane	Below det lim	ug/Kg	384	8/27/2002	KW	SW846 8260B
2-Chlorotoluene	Below det lim	ug/Kg	192	8/27/2002	KW	SW846 8260B
4-Chlorotoluene	Below det lim	ug/Kg	192	8/27/2002	KW	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	Below det lim	ug/Kg	384	8/27/2002	KW	SW846 8260B
Dibromochloromethane	Below det lim	ug/Kg	192	8/27/2002	KW	SW846 8260B
1,2-Dibromoethane (EDB)	Below det lim	ug/Kg	192	8/27/2002	KW	SW846 8260B
Dibromomethane	Below det lim	ug/Kg	192	8/27/2002	KW	SW846 8260B
1,2-Dichlorobenzene	Below det lim	ug/Kg	192	8/27/2002	KW	SW846 8260B
1,3-Dichlorobenzene	Below det lim	ug/Kg	192	8/27/2002	KW	SW846 8260B
1,4-Dichlorobenzene	Below det lim	ug/Kg	192	8/27/2002	KW	SW846 8260B
Dichlorodifluoromethane	Below det lim	ug/Kg	384	8/27/2002	KW	SW846 8260B
1,1-Dichloroethane	Below det lim	ug/Kg	192	8/27/2002	KW	SW846 8260B
1,2-Dichloroethane	Below det lim	ug/Kg	192	8/27/2002	KW	SW846 8260B
1,1-Dichloroethene	Below det lim	ug/Kg	192	8/27/2002	KW	SW846 8260B
cis-1,2-Dichloroethene	Below det lim	ug/Kg	192	8/27/2002	KW	SW846 8260B
trans-1,2-Dichloroethene	Below det lim	ug/Kg	192	8/27/2002	KW	SW846 8260B
1,2-Dichloropropane	Below det lim	ug/Kg	192	8/27/2002	KW	SW846 8260B
1,3-Dichloropropane	Below det lim	ug/Kg	192	8/27/2002	KW	SW846 8260B
2,2-Dichloropropane	Below det lim	ug/Kg	192	8/27/2002	KW	SW846 8260B
1,1-Dichloropropene	Below det lim	ug/Kg	192	8/27/2002	KW	SW846 8260B

Lab ID No: AD35949 **Collection Date:** 8/21/2002
Client Id: P2-1 (5-7) **Matrix** Sediment

Parameter	Results	Units	PQL	Start Date	Analyst	Method
cis-1,3-Dichloropropene	Below det lim	ug/Kg	192	8/27/2002	KW	SW846 8260B
trans-1,3-Dichloropropene	Below det lim	ug/Kg	192	8/27/2002	KW	SW846 8260B
Ethylbenzene	Below det lim	ug/Kg	192	8/27/2002	KW	SW846 8260B
Hexachlorobutadiene	Below det lim	ug/Kg	192	8/27/2002	KW	SW846 8260B
2-Hexanone (MBK)	Below det lim	ug/Kg	1920	8/27/2002	KW	SW846 8260B
Isopropylbenzene	Below det lim	ug/Kg	192	8/27/2002	KW	SW846 8260B
4-Isopropyltoluene	Below det lim	ug/Kg	192	8/27/2002	KW	SW846 8260B
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/Kg	192	8/27/2002	KW	SW846 8260B
4-Methyl-2-pentanone (MIBK)	Below det lim	ug/Kg	1920	8/27/2002	KW	SW846 8260B
Methylene chloride	Below det lim	ug/Kg	500	8/27/2002	KW	SW846 8260B
Naphthalene	Below det lim	ug/Kg	200	8/27/2002	KW	SW846 8260B
n-Propylbenzene	Below det lim	ug/Kg	192	8/27/2002	KW	SW846 8260B
Styrene	Below det lim	ug/Kg	192	8/27/2002	KW	SW846 8260B
1,1,1,2-Tetrachloroethane	Below det lim	ug/Kg	192	8/27/2002	KW	SW846 8260B
1,1,2,2-Tetrachloroethane	Below det lim	ug/Kg	192	8/27/2002	KW	SW846 8260B
Tetrachloroethene (PCE)	Below det lim	ug/Kg	192	8/27/2002	KW	SW846 8260B
Toluene	Below det lim	ug/Kg	192	8/27/2002	KW	SW846 8260B
1,2,3-Trichlorobenzene	Below det lim	ug/Kg	192	8/27/2002	KW	SW846 8260B
1,2,4-Trichlorobenzene	Below det lim	ug/Kg	192	8/27/2002	KW	SW846 8260B
1,1,1-Trichloroethane	Below det lim	ug/Kg	192	8/27/2002	KW	SW846 8260B
1,1,2-Trichloroethane	Below det lim	ug/Kg	192	8/27/2002	KW	SW846 8260B
Trichloroethene (TCE)	Below det lim	ug/Kg	192	8/27/2002	KW	SW846 8260B
Trichlorofluoromethane	Below det lim	ug/Kg	192	8/27/2002	KW	SW846 8260B
1,2,3-Trichloropropane	Below det lim	ug/Kg	192	8/27/2002	KW	SW846 8260B
1,2,4-Trimethylbenzene	Below det lim	ug/Kg	192	8/27/2002	KW	SW846 8260B
1,3,5-Trimethylbenzene	Below det lim	ug/Kg	192	8/27/2002	KW	SW846 8260B
Vinyl chloride	Below det lim	ug/Kg	192	8/27/2002	KW	SW846 8260B
m,p-Xylenes	Below det lim	ug/Kg	384	8/27/2002	KW	SW846 8260B
o-Xylene	Below det lim	ug/Kg	192	8/27/2002	KW	SW846 8260B
4-Bromofluorobenzene (%SR)	100	ug/Kg	0.000	8/27/2002	KW	SW846 8260B
1,4-Difluorobenzene (%SR)	103	ug/Kg	0.000	8/27/2002	KW	SW846 8260B
Chlorobenzene-d5 (%SR)	104	ug/Kg	0.000	8/27/2002	KW	SW846 8260B
TPH Preparation						
Ultrasonic Extraction	Completed			8/27/2002	RT	SW846 3550B
Petroleum Hydrocarbon Analysis						
Extractable TPH						
Total Petroleum Hydrocarbons (C9-C36)	1,200	mg/Kg	40	8/29/2002	MB	CT ETPH
Gasoline	Below det lim	mg/Kg	40	8/29/2002	MB	CT ETPH
Fuel Oil #2	Below det lim	mg/Kg	40	8/29/2002	MB	CT ETPH
Fuel Oil #4	Below det lim	mg/Kg	40	8/29/2002	MB	CT ETPH
Fuel Oil #6	*	mg/Kg	40	8/29/2002	MB	CT ETPH

Lab ID No: AD35949 **Collection Date:** 8/21/2002
Client Id: P2-1 (5-7) **Matrix** Sediment

Parameter	Results	Units	PQL	Start Date	Analyst	Method
Motor Oil	Below det lim	mg/Kg	40	8/29/2002	MB	CT ETPH
Aviation Fuel	Below det lim	mg/Kg	40	8/29/2002	MB	CT ETPH
Unidentified	1,200	mg/Kg	40	8/29/2002	MB	CT ETPH
Other Oil	**	mg/Kg	40	8/29/2002	MB	CT ETPH
1-Chloro-octadecane (%SR)	72	mg/Kg	0.	8/29/2002	MB	CT ETPH
SVOC Preparation						
Ultrasonic Extraction	Completed			8/27/2002	RT	SW846 3550B
Semivolatile Organic Compounds						
PAHs by GC/MS						
Naphthalene	Below det lim	ug/Kg	427	8/29/2002	MSL	SW846 8270C
2-Methylnaphthalene	Below det lim	ug/Kg	427	8/29/2002	MSL	SW846 8270C
1-Methylnaphthalene	Below det lim	ug/Kg	427	8/29/2002	MSL	SW846 8270C
Acenaphthylene	Below det lim	ug/Kg	427	8/29/2002	MSL	SW846 8270C
Acenaphthene	Below det lim	ug/Kg	427	8/29/2002	MSL	SW846 8270C
Fluorene	Below det lim	ug/Kg	427	8/29/2002	MSL	SW846 8270C
Phenanthrene	1,300	ug/Kg	427	8/29/2002	MSL	SW846 8270C
Anthracene	Below det lim	ug/Kg	427	8/29/2002	MSL	SW846 8270C
Fluoranthene	2,300	ug/Kg	427	8/29/2002	MSL	SW846 8270C
Pyrene	2,200	ug/Kg	427	8/29/2002	MSL	SW846 8270C
Benzo (a) anthracene	930	ug/Kg	427	8/29/2002	MSL	SW846 8270C
Chrysene	1,300	ug/Kg	427	8/29/2002	MSL	SW846 8270C
Benzo (b) fluoranthene	1,200	ug/Kg	427	8/29/2002	MSL	SW846 8270C
Benzo (k) fluoranthene	650	ug/Kg	427	8/29/2002	MSL	SW846 8270C
Benzo (a) pyrene	910	ug/Kg	427	8/29/2002	MSL	SW846 8270C
Indeno (1,2,3-cd) pyrene	Below det lim	ug/Kg	427	8/29/2002	MSL	SW846 8270C
Dibenzo (a,h) anthracene	Below det lim	ug/Kg	427	8/29/2002	MSL	SW846 8270C
Benzo (g,h,i) perylene	Below det lim	ug/Kg	427	8/29/2002	MSL	SW846 8270C
2-Fluorobiphenyl (%SR)	45	ug/Kg	0.000	8/29/2002	MSL	SW846 8270C
Terphenyl-d14 (%SR)	57	ug/Kg	0.000	8/29/2002	MSL	SW846 8270C
Semivolatile Organic Compounds						
Polychlorinated Biphenyls by GC						
PCB-1016	Below det lim	ug/Kg	140	8/28/2002	TG	SW846 8082
PCB-1221	Below det lim	ug/Kg	140	8/28/2002	TG	SW846 8082
PCB-1232	Below det lim	ug/Kg	140	8/28/2002	TG	SW846 8082
PCB-1242	Below det lim	ug/Kg	140	8/28/2002	TG	SW846 8082
PCB-1248	Below det lim	ug/Kg	140	8/28/2002	TG	SW846 8082
PCB-1254	Below det lim	ug/Kg	140	8/28/2002	TG	SW846 8082
PCB-1260	Below det lim	ug/Kg	140	8/28/2002	TG	SW846 8082
Decachlorobiphenyl (%SR)	117	ug/Kg	0.00	8/28/2002	TG	SW846 8082
Metals Preparation						

Lab ID No: AD35949
Client Id: P2-1 (5-7)

Collection Date: 8/21/2002
Matrix Sediment

Parameter	Results	Units	PQL	Start Date		Analyst	Method
Mercury Digestion	Completed			8/28/2002		KL	EPA 245.1
Mercury Digestion on Leachate	Completed			8/28/2002		LK	EPA 245.1
Metals Digestion	Completed			8/28/2002		KL	EPA 200.7
Metals Digestion on Leachate	Completed			8/28/2002		LK	EPA 200.7
Metals Analysis							
SPLP RCRA8 Metals							
SPLP Arsenic	Below det lim	mg/L	0.015	8/30/2002		CR	1312/200.7
SPLP Barium	0.0972	mg/L	0.005	8/30/2002		CR	1312/200.7
SPLP Cadmium	Below det lim	mg/L	0.0025	8/30/2002		CR	1312/200.7
SPLP Chromium	Below det lim	mg/L	0.005	8/30/2002		CR	1312/200.7
SPLP Lead	Below det lim	mg/L	0.0075	8/30/2002		CR	1312/200.7
SPLP Selenium	Below det lim	mg/L	0.015	8/30/2002		CR	1312/200.7
SPLP Silver	Below det lim	mg/L	0.010	8/30/2002		CR	1312/200.7
SPLP Mercury	Below det lim	mg/L	0.0004	8/29/2002		EPR	1312/245.1
Total RCRA8 Metals							
Total Arsenic	Below det lim	mg/Kg	21.6	8/30/2002		KSR	EPA 200.8
Total Barium	93.8	mg/Kg	1.11	8/30/2002		KSR	EPA 200.8
Total Cadmium	7.62	mg/Kg	1.11	8/30/2002		KSR	EPA 200.8
Total Chromium	195	mg/Kg	1.33	8/30/2002		KSR	EPA 200.8
Total Lead	260	mg/Kg	0.665	8/30/2002		KSR	EPA 200.8
Total Selenium	Below det lim	mg/Kg	3.55	8/30/2002		KSR	EPA 200.8
Total Silver	7.11	mg/Kg	0.887	8/30/2002		KSR	EPA 200.8
Total Mercury	2.83	mg/Kg	0.368	8/29/2002		EPR	EPA 245.1
General Chemistry							
Flash Point	>200	degree F	200	8/27/2002	7:15	JC	SW846 1010
Ignitability of Solids	Negative	pos/neg		8/27/2002	7:15	JC	SW846 1030
pH	8.28@19.7	pH Units		8/27/2002	7:15	JC	SW846 9045
TCLP/SPLP Preparation							
SPLP Extraction for Metals	Completed			8/26/2002		KP	SW846 1312
General Chemistry							
Reactivity - Cyanide/Sulfide							
Reactivity	Negative	mg/Kg		8/27/2002		AW	SW846 7.3
Reactivity Cyanide	Below det lim	mg/Kg	0.59	8/27/2002		AW	SW846 7.3
Reactivity Sulfide	440	mg/Kg	59	8/27/2002		AW	SW846 7.3
% Solids	42.0	%		8/26/2002		BH	SM2540 B Mod

Lab ID No: AD35950 **Collection Date:** 8/21/2002
Client Id: P2-1 (17-19) **Matrix** Sediment

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VOC Preparation						
VOC Extraction (solid)	Field ext			8/21/2002		SW846 5035
Volatile Organic Compounds						
VOCs by GC/MS						
Acetone	Below det lim	ug/Kg	5620	8/27/2002	CH	SW846 8260B
Acrylonitrile	Below det lim	ug/Kg	281	8/27/2002	CH	SW846 8260B
Benzene	Below det lim	ug/Kg	281	8/27/2002	CH	SW846 8260B
Bromobenzene	Below det lim	ug/Kg	281	8/27/2002	CH	SW846 8260B
Bromochloromethane	Below det lim	ug/Kg	281	8/27/2002	CH	SW846 8260B
Bromodichloromethane	Below det lim	ug/Kg	281	8/27/2002	CH	SW846 8260B
Bromoform	Below det lim	ug/Kg	281	8/27/2002	CH	SW846 8260B
Bromomethane	Below det lim	ug/Kg	562	8/27/2002	CH	SW846 8260B
2-Butanone (MEK)	Below det lim	ug/Kg	2810	8/27/2002	CH	SW846 8260B
n-Butylbenzene	Below det lim	ug/Kg	281	8/27/2002	CH	SW846 8260B
sec-Butylbenzene	Below det lim	ug/Kg	281	8/27/2002	CH	SW846 8260B
tert-Butylbenzene	Below det lim	ug/Kg	281	8/27/2002	CH	SW846 8260B
Carbon disulfide	Below det lim	ug/Kg	1410	8/27/2002	CH	SW846 8260B
Carbon tetrachloride	Below det lim	ug/Kg	281	8/27/2002	CH	SW846 8260B
Chlorobenzene	Below det lim	ug/Kg	281	8/27/2002	CH	SW846 8260B
Chloroethane	Below det lim	ug/Kg	562	8/27/2002	CH	SW846 8260B
Chloroform	Below det lim	ug/Kg	281	8/27/2002	CH	SW846 8260B
Chloromethane	Below det lim	ug/Kg	562	8/27/2002	CH	SW846 8260B
2-Chlorotoluene	Below det lim	ug/Kg	281	8/27/2002	CH	SW846 8260B
4-Chlorotoluene	Below det lim	ug/Kg	281	8/27/2002	CH	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	Below det lim	ug/Kg	562	8/27/2002	CH	SW846 8260B
Dibromochloromethane	Below det lim	ug/Kg	281	8/27/2002	CH	SW846 8260B
1,2-Dibromoethane (EDB)	Below det lim	ug/Kg	281	8/27/2002	CH	SW846 8260B
Dibromomethane	Below det lim	ug/Kg	281	8/27/2002	CH	SW846 8260B
1,2-Dichlorobenzene	Below det lim	ug/Kg	281	8/27/2002	CH	SW846 8260B
1,3-Dichlorobenzene	Below det lim	ug/Kg	281	8/27/2002	CH	SW846 8260B
1,4-Dichlorobenzene	Below det lim	ug/Kg	281	8/27/2002	CH	SW846 8260B
Dichlorodifluoromethane	Below det lim	ug/Kg	562	8/27/2002	CH	SW846 8260B
1,1-Dichloroethane	Below det lim	ug/Kg	281	8/27/2002	CH	SW846 8260B
1,2-Dichloroethane	Below det lim	ug/Kg	281	8/27/2002	CH	SW846 8260B
1,1-Dichloroethene	Below det lim	ug/Kg	281	8/27/2002	CH	SW846 8260B
cis-1,2-Dichloroethene	Below det lim	ug/Kg	281	8/27/2002	CH	SW846 8260B
trans-1,2-Dichloroethene	Below det lim	ug/Kg	281	8/27/2002	CH	SW846 8260B
1,2-Dichloropropane	Below det lim	ug/Kg	281	8/27/2002	CH	SW846 8260B
1,3-Dichloropropane	Below det lim	ug/Kg	281	8/27/2002	CH	SW846 8260B
2,2-Dichloropropane	Below det lim	ug/Kg	281	8/27/2002	CH	SW846 8260B
1,1-Dichloropropene	Below det lim	ug/Kg	281	8/27/2002	CH	SW846 8260B

Lab ID No: AD35950 **Collection Date:** 8/21/2002
Client Id: P2-1 (17-19) **Matrix** Sediment

Parameter	Results	Units	PQL	Start Date	Analyst	Method
cis-1,3-Dichloropropene	Below det lim	ug/Kg	281	8/27/2002	CH	SW846 8260B
trans-1,3-Dichloropropene	Below det lim	ug/Kg	281	8/27/2002	CH	SW846 8260B
Ethylbenzene	Below det lim	ug/Kg	281	8/27/2002	CH	SW846 8260B
Hexachlorobutadiene	Below det lim	ug/Kg	281	8/27/2002	CH	SW846 8260B
2-Hexanone (MBK)	Below det lim	ug/Kg	2810	8/27/2002	CH	SW846 8260B
Isopropylbenzene	Below det lim	ug/Kg	281	8/27/2002	CH	SW846 8260B
4-Isopropyltoluene	Below det lim	ug/Kg	281	8/27/2002	CH	SW846 8260B
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/Kg	281	8/27/2002	CH	SW846 8260B
4-Methyl-2-pentanone (MIBK)	Below det lim	ug/Kg	2810	8/27/2002	CH	SW846 8260B
Methylene chloride	Below det lim	ug/Kg	2100	8/27/2002	CH	SW846 8260B
Naphthalene	Below det lim	ug/Kg	281	8/27/2002	CH	SW846 8260B
n-Propylbenzene	Below det lim	ug/Kg	281	8/27/2002	CH	SW846 8260B
Styrene	Below det lim	ug/Kg	281	8/27/2002	CH	SW846 8260B
1,1,1,2-Tetrachloroethane	Below det lim	ug/Kg	281	8/27/2002	CH	SW846 8260B
1,1,2,2-Tetrachloroethane	Below det lim	ug/Kg	281	8/27/2002	CH	SW846 8260B
Tetrachloroethene (PCE)	Below det lim	ug/Kg	281	8/27/2002	CH	SW846 8260B
Toluene	Below det lim	ug/Kg	281	8/27/2002	CH	SW846 8260B
1,2,3-Trichlorobenzene	Below det lim	ug/Kg	281	8/27/2002	CH	SW846 8260B
1,2,4-Trichlorobenzene	Below det lim	ug/Kg	281	8/27/2002	CH	SW846 8260B
1,1,1-Trichloroethane	Below det lim	ug/Kg	281	8/27/2002	CH	SW846 8260B
1,1,2-Trichloroethane	Below det lim	ug/Kg	281	8/27/2002	CH	SW846 8260B
Trichloroethene (TCE)	Below det lim	ug/Kg	281	8/27/2002	CH	SW846 8260B
Trichlorofluoromethane	Below det lim	ug/Kg	281	8/27/2002	CH	SW846 8260B
1,2,3-Trichloropropane	Below det lim	ug/Kg	281	8/27/2002	CH	SW846 8260B
1,2,4-Trimethylbenzene	Below det lim	ug/Kg	281	8/27/2002	CH	SW846 8260B
1,3,5-Trimethylbenzene	Below det lim	ug/Kg	281	8/27/2002	CH	SW846 8260B
Vinyl chloride	Below det lim	ug/Kg	281	8/27/2002	CH	SW846 8260B
m,p-Xylenes	Below det lim	ug/Kg	562	8/27/2002	CH	SW846 8260B
o-Xylene	Below det lim	ug/Kg	281	8/27/2002	CH	SW846 8260B
4-Bromofluorobenzene (%SR)	90	ug/Kg	0.000	8/27/2002	CH	SW846 8260B
1,4-Difluorobenzene (%SR)	108	ug/Kg	0.000	8/27/2002	CH	SW846 8260B
Chlorobenzene-d5 (%SR)	100	ug/Kg	0.000	8/27/2002	CH	SW846 8260B
TPH Preparation						
Ultrasonic Extraction	Completed			8/27/2002	RT	SW846 3550B
Petroleum Hydrocarbon Analysis						
Extractable TPH						
Total Petroleum Hydrocarbons (C9-C36)	Below det lim	mg/Kg	20	8/29/2002	MB	CT ETPH
Gasoline	Below det lim	mg/Kg	20	8/29/2002	MB	CT ETPH
Fuel Oil #2	Below det lim	mg/Kg	20	8/29/2002	MB	CT ETPH
Fuel Oil #4	Below det lim	mg/Kg	20	8/29/2002	MB	CT ETPH
Fuel Oil #6	Below det lim	mg/Kg	20	8/29/2002	MB	CT ETPH

Lab ID No: AD35950 **Collection Date:** 8/21/2002
Client Id: P2-1 (17-19) **Matrix** Sediment

Parameter	Results	Units	PQL	Start Date	Analyst	Method
Motor Oil	Below det lim	mg/Kg	20	8/29/2002	MB	CT ETPH
Aviation Fuel	Below det lim	mg/Kg	20	8/29/2002	MB	CT ETPH
Unidentified	Below det lim	mg/Kg	20	8/29/2002	MB	CT ETPH
Other Oil	Below det lim	mg/Kg	20	8/29/2002	MB	CT ETPH
1-Chloro-octadecane (%SR)	83	mg/Kg	0.	8/29/2002	MB	CT ETPH
Metals Preparation						
Mercury Digestion	Completed			8/28/2002	KL	EPA 245.1
Mercury Digestion on Leachate	Completed			8/28/2002	LK	EPA 245.1
Metals Digestion	Completed			8/28/2002	KL	EPA 200.7
Metals Digestion on Leachate	Completed			8/28/2002	LK	EPA 200.7
Metals Analysis						
SPLP RCRA8 Metals						
SPLP Arsenic	Below det lim	mg/L	0.015	8/30/2002	CR	1312/200.7
SPLP Barium	0.0941	mg/L	0.005	8/30/2002	CR	1312/200.7
SPLP Cadmium	Below det lim	mg/L	0.0025	8/30/2002	CR	1312/200.7
SPLP Chromium	0.0141	mg/L	0.005	8/30/2002	CR	1312/200.7
SPLP Lead	Below det lim	mg/L	0.0075	8/30/2002	CR	1312/200.7
SPLP Selenium	Below det lim	mg/L	0.015	8/30/2002	CR	1312/200.7
SPLP Silver	Below det lim	mg/L	0.010	8/30/2002	CR	1312/200.7
SPLP Mercury	Below det lim	mg/L	0.0004	8/29/2002	EPR	1312/245.1
Total RCRA8 Metals						
Total Arsenic	Below det lim	mg/Kg	15.1	8/30/2002	KSR	EPA 200.8
Total Barium	30.5	mg/Kg	0.874	8/30/2002	KSR	EPA 200.8
Total Cadmium	Below det lim	mg/Kg	0.874	8/30/2002	KSR	EPA 200.8
Total Chromium	26.1	mg/Kg	1.05	8/30/2002	KSR	EPA 200.8
Total Lead	11.1	mg/Kg	0.524	8/30/2002	KSR	EPA 200.8
Total Selenium	Below det lim	mg/Kg	2.80	8/30/2002	KSR	EPA 200.8
Total Silver	Below det lim	mg/Kg	0.699	8/30/2002	KSR	EPA 200.8
Total Mercury	Below det lim	mg/Kg	0.345	8/29/2002	EPR	EPA 245.1
TCLP/SPLP Preparation						
SPLP Extraction for Metals	Completed			8/26/2002	KP	SW846 1312
% Solids	48.5	%		8/26/2002	BH	SM2540 B Mod

Lab ID No: AD35951
Client Id: P2-1 (27-29)

Collection Date: 8/21/2002
Matrix Sediment

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VOC Preparation						
VOC Extraction (solid)	Field ext			8/21/2002		SW846 5035
Volatile Organic Compounds						
VOCs by GC/MS						
Acetone	Below det lim	ug/Kg	3600	8/27/2002	CH	SW846 8260B
Acrylonitrile	Below det lim	ug/Kg	180	8/27/2002	CH	SW846 8260B
Benzene	Below det lim	ug/Kg	180	8/27/2002	CH	SW846 8260B
Bromobenzene	Below det lim	ug/Kg	180	8/27/2002	CH	SW846 8260B
Bromochloromethane	Below det lim	ug/Kg	180	8/27/2002	CH	SW846 8260B
Bromodichloromethane	Below det lim	ug/Kg	180	8/27/2002	CH	SW846 8260B
Bromoform	Below det lim	ug/Kg	180	8/27/2002	CH	SW846 8260B
Bromomethane	Below det lim	ug/Kg	360	8/27/2002	CH	SW846 8260B
2-Butanone (MEK)	Below det lim	ug/Kg	1800	8/27/2002	CH	SW846 8260B
n-Butylbenzene	Below det lim	ug/Kg	180	8/27/2002	CH	SW846 8260B
sec-Butylbenzene	Below det lim	ug/Kg	180	8/27/2002	CH	SW846 8260B
tert-Butylbenzene	Below det lim	ug/Kg	180	8/27/2002	CH	SW846 8260B
Carbon disulfide	Below det lim	ug/Kg	900	8/27/2002	CH	SW846 8260B
Carbon tetrachloride	Below det lim	ug/Kg	180	8/27/2002	CH	SW846 8260B
Chlorobenzene	Below det lim	ug/Kg	180	8/27/2002	CH	SW846 8260B
Chloroethane	Below det lim	ug/Kg	360	8/27/2002	CH	SW846 8260B
Chloroform	Below det lim	ug/Kg	180	8/27/2002	CH	SW846 8260B
Chloromethane	Below det lim	ug/Kg	360	8/27/2002	CH	SW846 8260B
2-Chlorotoluene	Below det lim	ug/Kg	180	8/27/2002	CH	SW846 8260B
4-Chlorotoluene	Below det lim	ug/Kg	180	8/27/2002	CH	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	Below det lim	ug/Kg	360	8/27/2002	CH	SW846 8260B
Dibromochloromethane	Below det lim	ug/Kg	180	8/27/2002	CH	SW846 8260B
1,2-Dibromoethane (EDB)	Below det lim	ug/Kg	180	8/27/2002	CH	SW846 8260B
Dibromomethane	Below det lim	ug/Kg	180	8/27/2002	CH	SW846 8260B
1,2-Dichlorobenzene	Below det lim	ug/Kg	180	8/27/2002	CH	SW846 8260B
1,3-Dichlorobenzene	Below det lim	ug/Kg	180	8/27/2002	CH	SW846 8260B
1,4-Dichlorobenzene	Below det lim	ug/Kg	180	8/27/2002	CH	SW846 8260B
Dichlorodifluoromethane	Below det lim	ug/Kg	360	8/27/2002	CH	SW846 8260B
1,1-Dichloroethane	Below det lim	ug/Kg	180	8/27/2002	CH	SW846 8260B
1,2-Dichloroethane	Below det lim	ug/Kg	180	8/27/2002	CH	SW846 8260B
1,1-Dichloroethene	Below det lim	ug/Kg	180	8/27/2002	CH	SW846 8260B
cis-1,2-Dichloroethene	Below det lim	ug/Kg	180	8/27/2002	CH	SW846 8260B
trans-1,2-Dichloroethene	Below det lim	ug/Kg	180	8/27/2002	CH	SW846 8260B
1,2-Dichloropropane	Below det lim	ug/Kg	180	8/27/2002	CH	SW846 8260B
1,3-Dichloropropane	Below det lim	ug/Kg	180	8/27/2002	CH	SW846 8260B
2,2-Dichloropropane	Below det lim	ug/Kg	180	8/27/2002	CH	SW846 8260B
1,1-Dichloropropene	Below det lim	ug/Kg	180	8/27/2002	CH	SW846 8260B

Lab ID No: AD35951 **Collection Date:** 8/21/2002
Client Id: P2-1 (27-29) **Matrix** Sediment

Parameter	Results	Units	PQL	Start Date	Analyst	Method
cis-1,3-Dichloropropene	Below det lim	ug/Kg	180	8/27/2002	CH	SW846 8260B
trans-1,3-Dichloropropene	Below det lim	ug/Kg	180	8/27/2002	CH	SW846 8260B
Ethylbenzene	Below det lim	ug/Kg	180	8/27/2002	CH	SW846 8260B
Hexachlorobutadiene	Below det lim	ug/Kg	180	8/27/2002	CH	SW846 8260B
2-Hexanone (MBK)	Below det lim	ug/Kg	1800	8/27/2002	CH	SW846 8260B
Isopropylbenzene	Below det lim	ug/Kg	180	8/27/2002	CH	SW846 8260B
4-Isopropyltoluene	Below det lim	ug/Kg	180	8/27/2002	CH	SW846 8260B
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/Kg	180	8/27/2002	CH	SW846 8260B
4-Methyl-2-pentanone (MIBK)	Below det lim	ug/Kg	1800	8/27/2002	CH	SW846 8260B
Methylene chloride	Below det lim	ug/Kg	1100	8/27/2002	CH	SW846 8260B
Naphthalene	Below det lim	ug/Kg	180	8/27/2002	CH	SW846 8260B
n-Propylbenzene	Below det lim	ug/Kg	180	8/27/2002	CH	SW846 8260B
Styrene	Below det lim	ug/Kg	180	8/27/2002	CH	SW846 8260B
1,1,1,2-Tetrachloroethane	Below det lim	ug/Kg	180	8/27/2002	CH	SW846 8260B
1,1,2,2-Tetrachloroethane	Below det lim	ug/Kg	180	8/27/2002	CH	SW846 8260B
Tetrachloroethene (PCE)	Below det lim	ug/Kg	180	8/27/2002	CH	SW846 8260B
Toluene	Below det lim	ug/Kg	180	8/27/2002	CH	SW846 8260B
1,2,3-Trichlorobenzene	Below det lim	ug/Kg	180	8/27/2002	CH	SW846 8260B
1,2,4-Trichlorobenzene	Below det lim	ug/Kg	180	8/27/2002	CH	SW846 8260B
1,1,1-Trichloroethane	Below det lim	ug/Kg	180	8/27/2002	CH	SW846 8260B
1,1,2-Trichloroethane	Below det lim	ug/Kg	180	8/27/2002	CH	SW846 8260B
Trichloroethene (TCE)	Below det lim	ug/Kg	180	8/27/2002	CH	SW846 8260B
Trichlorofluoromethane	Below det lim	ug/Kg	180	8/27/2002	CH	SW846 8260B
1,2,3-Trichloropropane	Below det lim	ug/Kg	180	8/27/2002	CH	SW846 8260B
1,2,4-Trimethylbenzene	Below det lim	ug/Kg	180	8/27/2002	CH	SW846 8260B
1,3,5-Trimethylbenzene	Below det lim	ug/Kg	180	8/27/2002	CH	SW846 8260B
Vinyl chloride	Below det lim	ug/Kg	180	8/27/2002	CH	SW846 8260B
m,p-Xylenes	Below det lim	ug/Kg	360	8/27/2002	CH	SW846 8260B
o-Xylene	Below det lim	ug/Kg	180	8/27/2002	CH	SW846 8260B
4-Bromofluorobenzene (%SR)	82	ug/Kg	0.000	8/27/2002	CH	SW846 8260B
1,4-Difluorobenzene (%SR)	105	ug/Kg	0.000	8/27/2002	CH	SW846 8260B
Chlorobenzene-d5 (%SR)	97	ug/Kg	0.000	8/27/2002	CH	SW846 8260B
TPH Preparation						
Ultrasonic Extraction	Completed			8/27/2002	RT	SW846 3550B
Petroleum Hydrocarbon Analysis						
Extractable TPH						
Total Petroleum Hydrocarbons (C9-C36)	Below det lim	mg/Kg	20	8/29/2002	MB	CT ETPH
Gasoline	Below det lim	mg/Kg	20	8/29/2002	MB	CT ETPH
Fuel Oil #2	Below det lim	mg/Kg	20	8/29/2002	MB	CT ETPH
Fuel Oil #4	Below det lim	mg/Kg	20	8/29/2002	MB	CT ETPH
Fuel Oil #6	Below det lim	mg/Kg	20	8/29/2002	MB	CT ETPH

Lab ID No: AD35951 **Collection Date:** 8/21/2002
Client Id: P2-1 (27-29) **Matrix** Sediment

Parameter	Results	Units	PQL	Start Date	Analyst	Method
Motor Oil	Below det lim	mg/Kg	20	8/29/2002	MB	CT ETPH
Aviation Fuel	Below det lim	mg/Kg	20	8/29/2002	MB	CT ETPH
Unidentified	Below det lim	mg/Kg	20	8/29/2002	MB	CT ETPH
Other Oil	Below det lim	mg/Kg	20	8/29/2002	MB	CT ETPH
1-Chloro-octadecane (%SR)	68	mg/Kg	0.	8/29/2002	MB	CT ETPH
Metals Preparation						
Mercury Digestion	Completed			8/28/2002	KL	EPA 245.1
Mercury Digestion on Leachate	Completed			8/28/2002	LK	EPA 245.1
Metals Digestion	Completed			8/28/2002	KL	EPA 200.7
Metals Digestion on Leachate	Completed			8/28/2002	LK	EPA 200.7
Metals Analysis						
SPLP RCRA8 Metals						
SPLP Arsenic	Below det lim	mg/L	0.015	8/30/2002	CR	1312/200.7
SPLP Barium	0.0550	mg/L	0.005	8/30/2002	CR	1312/200.7
SPLP Cadmium	Below det lim	mg/L	0.0025	8/30/2002	CR	1312/200.7
SPLP Chromium	0.0101	mg/L	0.005	8/30/2002	CR	1312/200.7
SPLP Lead	Below det lim	mg/L	0.0075	8/30/2002	CR	1312/200.7
SPLP Selenium	Below det lim	mg/L	0.015	8/30/2002	CR	1312/200.7
SPLP Silver	Below det lim	mg/L	0.010	8/30/2002	CR	1312/200.7
SPLP Mercury	Below det lim	mg/L	0.0004	8/29/2002	EPR	1312/245.1
Total RCRA8 Metals						
Total Arsenic	Below det lim	mg/Kg	13.9	8/30/2002	KSR	EPA 200.8
Total Barium	20.2	mg/Kg	0.805	8/30/2002	KSR	EPA 200.8
Total Cadmium	Below det lim	mg/Kg	0.805	8/30/2002	KSR	EPA 200.8
Total Chromium	21.2	mg/Kg	0.965	8/30/2002	KSR	EPA 200.8
Total Lead	10.0	mg/Kg	0.483	8/30/2002	KSR	EPA 200.8
Total Selenium	Below det lim	mg/Kg	2.57	8/30/2002	KSR	EPA 200.8
Total Silver	Below det lim	mg/Kg	0.644	8/30/2002	KSR	EPA 200.8
Total Mercury	Below det lim	mg/Kg	0.311	8/29/2002	EPR	EPA 245.1
TCLP/SPLP Preparation						
SPLP Extraction for Metals	Completed			8/26/2002	KP	SW846 1312
% Solids	52.6	%		8/26/2002	BH	SM2540 B Mod

Lab ID No: AD35952 **Collection Date:** 8/22/2002
Client Id: P2-1 (30-32) **Matrix** Sediment

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VOC Preparation						
VOC Extraction (solid)	Field ext			8/22/2002		SW846 5035
Volatile Organic Compounds						
VOCs by GC/MS						
Acetone	Below det lim	ug/Kg	13000	8/27/2002	CH	SW846 8260B
Acrylonitrile	Below det lim	ug/Kg	651	8/27/2002	CH	SW846 8260B
Benzene	Below det lim	ug/Kg	651	8/27/2002	CH	SW846 8260B
Bromobenzene	Below det lim	ug/Kg	651	8/27/2002	CH	SW846 8260B
Bromochloromethane	Below det lim	ug/Kg	651	8/27/2002	CH	SW846 8260B
Bromodichloromethane	Below det lim	ug/Kg	651	8/27/2002	CH	SW846 8260B
Bromoform	Below det lim	ug/Kg	651	8/27/2002	CH	SW846 8260B
Bromomethane	Below det lim	ug/Kg	1300	8/27/2002	CH	SW846 8260B
2-Butanone (MEK)	Below det lim	ug/Kg	6510	8/27/2002	CH	SW846 8260B
n-Butylbenzene	Below det lim	ug/Kg	651	8/27/2002	CH	SW846 8260B
sec-Butylbenzene	Below det lim	ug/Kg	651	8/27/2002	CH	SW846 8260B
tert-Butylbenzene	Below det lim	ug/Kg	651	8/27/2002	CH	SW846 8260B
Carbon disulfide	Below det lim	ug/Kg	3260	8/27/2002	CH	SW846 8260B
Carbon tetrachloride	Below det lim	ug/Kg	651	8/27/2002	CH	SW846 8260B
Chlorobenzene	Below det lim	ug/Kg	651	8/27/2002	CH	SW846 8260B
Chloroethane	Below det lim	ug/Kg	1300	8/27/2002	CH	SW846 8260B
Chloroform	Below det lim	ug/Kg	651	8/27/2002	CH	SW846 8260B
Chloromethane	Below det lim	ug/Kg	1300	8/27/2002	CH	SW846 8260B
2-Chlorotoluene	Below det lim	ug/Kg	651	8/27/2002	CH	SW846 8260B
4-Chlorotoluene	Below det lim	ug/Kg	651	8/27/2002	CH	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	Below det lim	ug/Kg	1300	8/27/2002	CH	SW846 8260B
Dibromochloromethane	Below det lim	ug/Kg	651	8/27/2002	CH	SW846 8260B
1,2-Dibromoethane (EDB)	Below det lim	ug/Kg	651	8/27/2002	CH	SW846 8260B
Dibromomethane	Below det lim	ug/Kg	651	8/27/2002	CH	SW846 8260B
1,2-Dichlorobenzene	Below det lim	ug/Kg	651	8/27/2002	CH	SW846 8260B
1,3-Dichlorobenzene	Below det lim	ug/Kg	651	8/27/2002	CH	SW846 8260B
1,4-Dichlorobenzene	Below det lim	ug/Kg	651	8/27/2002	CH	SW846 8260B
Dichlorodifluoromethane	Below det lim	ug/Kg	1300	8/27/2002	CH	SW846 8260B
1,1-Dichloroethane	Below det lim	ug/Kg	651	8/27/2002	CH	SW846 8260B
1,2-Dichloroethane	Below det lim	ug/Kg	651	8/27/2002	CH	SW846 8260B
1,1-Dichloroethene	Below det lim	ug/Kg	651	8/27/2002	CH	SW846 8260B
cis-1,2-Dichloroethene	Below det lim	ug/Kg	651	8/27/2002	CH	SW846 8260B
trans-1,2-Dichloroethene	Below det lim	ug/Kg	651	8/27/2002	CH	SW846 8260B
1,2-Dichloropropane	Below det lim	ug/Kg	651	8/27/2002	CH	SW846 8260B
1,3-Dichloropropane	Below det lim	ug/Kg	651	8/27/2002	CH	SW846 8260B
2,2-Dichloropropane	Below det lim	ug/Kg	651	8/27/2002	CH	SW846 8260B
1,1-Dichloropropene	Below det lim	ug/Kg	651	8/27/2002	CH	SW846 8260B

Lab ID No: AD35952 **Collection Date:** 8/22/2002
Client Id: P2-1 (30-32) **Matrix** Sediment

Parameter	Results	Units	PQL	Start Date	Analyst	Method
cis-1,3-Dichloropropene	Below det lim	ug/Kg	651	8/27/2002	CH	SW846 8260B
trans-1,3-Dichloropropene	Below det lim	ug/Kg	651	8/27/2002	CH	SW846 8260B
Ethylbenzene	Below det lim	ug/Kg	651	8/27/2002	CH	SW846 8260B
Hexachlorobutadiene	Below det lim	ug/Kg	651	8/27/2002	CH	SW846 8260B
2-Hexanone (MBK)	Below det lim	ug/Kg	6510	8/27/2002	CH	SW846 8260B
Isopropylbenzene	Below det lim	ug/Kg	651	8/27/2002	CH	SW846 8260B
4-Isopropyltoluene	Below det lim	ug/Kg	651	8/27/2002	CH	SW846 8260B
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/Kg	651	8/27/2002	CH	SW846 8260B
4-Methyl-2-pentanone (MIBK)	Below det lim	ug/Kg	6510	8/27/2002	CH	SW846 8260B
Methylene chloride	Below det lim	ug/Kg	4100	8/27/2002	CH	SW846 8260B
Naphthalene	Below det lim	ug/Kg	651	8/27/2002	CH	SW846 8260B
n-Propylbenzene	Below det lim	ug/Kg	651	8/27/2002	CH	SW846 8260B
Styrene	Below det lim	ug/Kg	651	8/27/2002	CH	SW846 8260B
1,1,1,2-Tetrachloroethane	Below det lim	ug/Kg	651	8/27/2002	CH	SW846 8260B
1,1,2,2-Tetrachloroethane	Below det lim	ug/Kg	651	8/27/2002	CH	SW846 8260B
Tetrachloroethene (PCE)	Below det lim	ug/Kg	651	8/27/2002	CH	SW846 8260B
Toluene	Below det lim	ug/Kg	651	8/27/2002	CH	SW846 8260B
1,2,3-Trichlorobenzene	Below det lim	ug/Kg	651	8/27/2002	CH	SW846 8260B
1,2,4-Trichlorobenzene	Below det lim	ug/Kg	651	8/27/2002	CH	SW846 8260B
1,1,1-Trichloroethane	Below det lim	ug/Kg	651	8/27/2002	CH	SW846 8260B
1,1,2-Trichloroethane	Below det lim	ug/Kg	651	8/27/2002	CH	SW846 8260B
Trichloroethene (TCE)	Below det lim	ug/Kg	651	8/27/2002	CH	SW846 8260B
Trichlorofluoromethane	Below det lim	ug/Kg	651	8/27/2002	CH	SW846 8260B
1,2,3-Trichloropropane	Below det lim	ug/Kg	651	8/27/2002	CH	SW846 8260B
1,2,4-Trimethylbenzene	Below det lim	ug/Kg	651	8/27/2002	CH	SW846 8260B
1,3,5-Trimethylbenzene	Below det lim	ug/Kg	651	8/27/2002	CH	SW846 8260B
Vinyl chloride	Below det lim	ug/Kg	651	8/27/2002	CH	SW846 8260B
m,p-Xylenes	Below det lim	ug/Kg	1300	8/27/2002	CH	SW846 8260B
o-Xylene	Below det lim	ug/Kg	651	8/27/2002	CH	SW846 8260B
4-Bromofluorobenzene (%SR)	83	ug/Kg	0.000	8/27/2002	CH	SW846 8260B
1,4-Difluorobenzene (%SR)	106	ug/Kg	0.000	8/27/2002	CH	SW846 8260B
Chlorobenzene-d5 (%SR)	96	ug/Kg	0.000	8/27/2002	CH	SW846 8260B
TPH Preparation						
Ultrasonic Extraction	Completed			8/27/2002	RT	SW846 3550B
Petroleum Hydrocarbon Analysis						
Extractable TPH						
Total Petroleum Hydrocarbons (C9-C36)	Below det lim	mg/Kg	20	8/29/2002	MB	CT ETPH
Gasoline	Below det lim	mg/Kg	20	8/29/2002	MB	CT ETPH
Fuel Oil #2	Below det lim	mg/Kg	20	8/29/2002	MB	CT ETPH
Fuel Oil #4	Below det lim	mg/Kg	20	8/29/2002	MB	CT ETPH
Fuel Oil #6	Below det lim	mg/Kg	20	8/29/2002	MB	CT ETPH

Lab ID No: AD35952 **Collection Date:** 8/22/2002
Client Id: P2-1 (30-32) **Matrix** Sediment

Parameter	Results	Units	PQL	Start Date	Analyst	Method
Motor Oil	Below det lim	mg/Kg	20	8/29/2002	MB	CT ETPH
Aviation Fuel	Below det lim	mg/Kg	20	8/29/2002	MB	CT ETPH
Unidentified	Below det lim	mg/Kg	20	8/29/2002	MB	CT ETPH
Other Oil	Below det lim	mg/Kg	20	8/29/2002	MB	CT ETPH
1-Chloro-octadecane (%SR)	74	mg/Kg	0.	8/29/2002	MB	CT ETPH
Metals Preparation						
Mercury Digestion	Completed			8/28/2002	KL	EPA 245.1
Mercury Digestion on Leachate	Completed			8/28/2002	LK	EPA 245.1
Metals Digestion	Completed			8/28/2002	KL	EPA 200.7
Metals Digestion on Leachate	Completed			8/28/2002	LK	EPA 200.7
Metals Analysis						
SPLP RCRA8 Metals						
SPLP Arsenic	Below det lim	mg/L	0.015	8/30/2002	CR	1312/200.7
SPLP Barium	Below det lim	mg/L	0.019	8/30/2002	CR	1312/200.7
SPLP Cadmium	Below det lim	mg/L	0.0025	8/30/2002	CR	1312/200.7
SPLP Chromium	Below det lim	mg/L	0.005	8/30/2002	CR	1312/200.7
SPLP Lead	Below det lim	mg/L	0.0075	8/30/2002	CR	1312/200.7
SPLP Selenium	Below det lim	mg/L	0.015	8/30/2002	CR	1312/200.7
SPLP Silver	Below det lim	mg/L	0.010	8/30/2002	CR	1312/200.7
SPLP Mercury	Below det lim	mg/L	0.0004	8/29/2002	EPR	1312/245.1
Total RCRA8 Metals						
Total Arsenic	Below det lim	mg/Kg	7.38	8/30/2002	KSR	EPA 200.8
Total Barium	7.52	mg/Kg	0.616	8/30/2002	KSR	EPA 200.8
Total Cadmium	Below det lim	mg/Kg	0.616	8/30/2002	KSR	EPA 200.8
Total Chromium	8.21	mg/Kg	0.739	8/30/2002	KSR	EPA 200.8
Total Lead	3.59	mg/Kg	0.370	8/30/2002	KSR	EPA 200.8
Total Selenium	Below det lim	mg/Kg	1.97	8/30/2002	KSR	EPA 200.8
Total Silver	Below det lim	mg/Kg	0.493	8/30/2002	KSR	EPA 200.8
Total Mercury	Below det lim	mg/Kg	0.249	8/29/2002	EPR	EPA 245.1
TCLP/SPLP Preparation						
SPLP Extraction for Metals	Completed			8/26/2002	KP	SW846 1312
% Solids	71.1	%		8/26/2002	BH	SM2540 B Mod

Lab ID No: AD35953
Client Id: P2-1 (35-37)

Collection Date: 8/22/2002
Matrix Sediment

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VOC Preparation						
VOC Extraction (solid)	Field ext			8/22/2002		SW846 5035
Volatile Organic Compounds						
VOCs by GC/MS						
Acetone	Below det lim	ug/Kg	4900	8/27/2002	CH	SW846 8260B
Acrylonitrile	Below det lim	ug/Kg	245	8/27/2002	CH	SW846 8260B
Benzene	Below det lim	ug/Kg	245	8/27/2002	CH	SW846 8260B
Bromobenzene	Below det lim	ug/Kg	245	8/27/2002	CH	SW846 8260B
Bromochloromethane	Below det lim	ug/Kg	245	8/27/2002	CH	SW846 8260B
Bromodichloromethane	Below det lim	ug/Kg	245	8/27/2002	CH	SW846 8260B
Bromoform	Below det lim	ug/Kg	245	8/27/2002	CH	SW846 8260B
Bromomethane	Below det lim	ug/Kg	490	8/27/2002	CH	SW846 8260B
2-Butanone (MEK)	Below det lim	ug/Kg	2450	8/27/2002	CH	SW846 8260B
n-Butylbenzene	Below det lim	ug/Kg	245	8/27/2002	CH	SW846 8260B
sec-Butylbenzene	Below det lim	ug/Kg	245	8/27/2002	CH	SW846 8260B
tert-Butylbenzene	Below det lim	ug/Kg	245	8/27/2002	CH	SW846 8260B
Carbon disulfide	Below det lim	ug/Kg	1230	8/27/2002	CH	SW846 8260B
Carbon tetrachloride	Below det lim	ug/Kg	245	8/27/2002	CH	SW846 8260B
Chlorobenzene	Below det lim	ug/Kg	245	8/27/2002	CH	SW846 8260B
Chloroethane	Below det lim	ug/Kg	490	8/27/2002	CH	SW846 8260B
Chloroform	Below det lim	ug/Kg	245	8/27/2002	CH	SW846 8260B
Chloromethane	Below det lim	ug/Kg	490	8/27/2002	CH	SW846 8260B
2-Chlorotoluene	Below det lim	ug/Kg	245	8/27/2002	CH	SW846 8260B
4-Chlorotoluene	Below det lim	ug/Kg	245	8/27/2002	CH	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	Below det lim	ug/Kg	490	8/27/2002	CH	SW846 8260B
Dibromochloromethane	Below det lim	ug/Kg	245	8/27/2002	CH	SW846 8260B
1,2-Dibromoethane (EDB)	Below det lim	ug/Kg	245	8/27/2002	CH	SW846 8260B
Dibromomethane	Below det lim	ug/Kg	245	8/27/2002	CH	SW846 8260B
1,2-Dichlorobenzene	Below det lim	ug/Kg	245	8/27/2002	CH	SW846 8260B
1,3-Dichlorobenzene	Below det lim	ug/Kg	245	8/27/2002	CH	SW846 8260B
1,4-Dichlorobenzene	Below det lim	ug/Kg	245	8/27/2002	CH	SW846 8260B
Dichlorodifluoromethane	Below det lim	ug/Kg	490	8/27/2002	CH	SW846 8260B
1,1-Dichloroethane	Below det lim	ug/Kg	245	8/27/2002	CH	SW846 8260B
1,2-Dichloroethane	Below det lim	ug/Kg	245	8/27/2002	CH	SW846 8260B
1,1-Dichloroethene	Below det lim	ug/Kg	245	8/27/2002	CH	SW846 8260B
cis-1,2-Dichloroethene	Below det lim	ug/Kg	245	8/27/2002	CH	SW846 8260B
trans-1,2-Dichloroethene	Below det lim	ug/Kg	245	8/27/2002	CH	SW846 8260B
1,2-Dichloropropane	Below det lim	ug/Kg	245	8/27/2002	CH	SW846 8260B
1,3-Dichloropropane	Below det lim	ug/Kg	245	8/27/2002	CH	SW846 8260B
2,2-Dichloropropane	Below det lim	ug/Kg	245	8/27/2002	CH	SW846 8260B
1,1-Dichloropropene	Below det lim	ug/Kg	245	8/27/2002	CH	SW846 8260B

Lab ID No: AD35953 **Collection Date:** 8/22/2002
Client Id: P2-1 (35-37) **Matrix** Sediment

Parameter	Results	Units	PQL	Start Date	Analyst	Method
cis-1,3-Dichloropropene	Below det lim	ug/Kg	245	8/27/2002	CH	SW846 8260B
trans-1,3-Dichloropropene	Below det lim	ug/Kg	245	8/27/2002	CH	SW846 8260B
Ethylbenzene	Below det lim	ug/Kg	245	8/27/2002	CH	SW846 8260B
Hexachlorobutadiene	Below det lim	ug/Kg	245	8/27/2002	CH	SW846 8260B
2-Hexanone (MBK)	Below det lim	ug/Kg	2450	8/27/2002	CH	SW846 8260B
Isopropylbenzene	Below det lim	ug/Kg	245	8/27/2002	CH	SW846 8260B
4-Isopropyltoluene	Below det lim	ug/Kg	245	8/27/2002	CH	SW846 8260B
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/Kg	245	8/27/2002	CH	SW846 8260B
4-Methyl-2-pentanone (MIBK)	Below det lim	ug/Kg	2450	8/27/2002	CH	SW846 8260B
Methylene chloride	Below det lim	ug/Kg	460	8/27/2002	CH	SW846 8260B
Naphthalene	Below det lim	ug/Kg	245	8/27/2002	CH	SW846 8260B
n-Propylbenzene	Below det lim	ug/Kg	245	8/27/2002	CH	SW846 8260B
Styrene	Below det lim	ug/Kg	245	8/27/2002	CH	SW846 8260B
1,1,1,2-Tetrachloroethane	Below det lim	ug/Kg	245	8/27/2002	CH	SW846 8260B
1,1,2,2-Tetrachloroethane	Below det lim	ug/Kg	245	8/27/2002	CH	SW846 8260B
Tetrachloroethene (PCE)	Below det lim	ug/Kg	245	8/27/2002	CH	SW846 8260B
Toluene	Below det lim	ug/Kg	245	8/27/2002	CH	SW846 8260B
1,2,3-Trichlorobenzene	Below det lim	ug/Kg	245	8/27/2002	CH	SW846 8260B
1,2,4-Trichlorobenzene	Below det lim	ug/Kg	245	8/27/2002	CH	SW846 8260B
1,1,1-Trichloroethane	Below det lim	ug/Kg	245	8/27/2002	CH	SW846 8260B
1,1,2-Trichloroethane	Below det lim	ug/Kg	245	8/27/2002	CH	SW846 8260B
Trichloroethene (TCE)	Below det lim	ug/Kg	245	8/27/2002	CH	SW846 8260B
Trichlorofluoromethane	Below det lim	ug/Kg	245	8/27/2002	CH	SW846 8260B
1,2,3-Trichloropropane	Below det lim	ug/Kg	245	8/27/2002	CH	SW846 8260B
1,2,4-Trimethylbenzene	Below det lim	ug/Kg	245	8/27/2002	CH	SW846 8260B
1,3,5-Trimethylbenzene	Below det lim	ug/Kg	245	8/27/2002	CH	SW846 8260B
Vinyl chloride	Below det lim	ug/Kg	245	8/27/2002	CH	SW846 8260B
m,p-Xylenes	Below det lim	ug/Kg	490	8/27/2002	CH	SW846 8260B
o-Xylene	Below det lim	ug/Kg	245	8/27/2002	CH	SW846 8260B
4-Bromofluorobenzene (%SR)	85	ug/Kg	0.000	8/27/2002	CH	SW846 8260B
1,4-Difluorobenzene (%SR)	107	ug/Kg	0.000	8/27/2002	CH	SW846 8260B
Chlorobenzene-d5 (%SR)	97	ug/Kg	0.000	8/27/2002	CH	SW846 8260B
TPH Preparation						
Ultrasonic Extraction	Completed			8/27/2002	RT	SW846 3550B
Petroleum Hydrocarbon Analysis						
Extractable TPH						
Total Petroleum Hydrocarbons (C9-C36)	Below det lim	mg/Kg	20	8/29/2002	MB	CT ETPH
Gasoline	Below det lim	mg/Kg	20	8/29/2002	MB	CT ETPH
Fuel Oil #2	Below det lim	mg/Kg	20	8/29/2002	MB	CT ETPH
Fuel Oil #4	Below det lim	mg/Kg	20	8/29/2002	MB	CT ETPH
Fuel Oil #6	Below det lim	mg/Kg	20	8/29/2002	MB	CT ETPH

Lab ID No: AD35953
Client Id: P2-1 (35-37)

Collection Date: 8/22/2002
Matrix Sediment

Parameter	Results	Units	PQL	Start Date	Analyst	Method
Motor Oil	Below det lim	mg/Kg	20	8/29/2002	MB	CT ETPH
Aviation Fuel	Below det lim	mg/Kg	20	8/29/2002	MB	CT ETPH
Unidentified	Below det lim	mg/Kg	20	8/29/2002	MB	CT ETPH
Other Oil	Below det lim	mg/Kg	20	8/29/2002	MB	CT ETPH
1-Chloro-octadecane (%SR)	74	mg/Kg	0.	8/29/2002	MB	CT ETPH
Metals Preparation						
Mercury Digestion	Completed			8/28/2002	KL	EPA 245.1
Mercury Digestion on Leachate	Completed			8/28/2002	LK	EPA 245.1
Metals Digestion	Completed			8/28/2002	KL	EPA 200.7
Metals Digestion on Leachate	Completed			8/28/2002	LK	EPA 200.7
Metals Analysis						
SPLP RCRA8 Metals						
SPLP Arsenic	Below det lim	mg/L	0.015	8/30/2002	CR	1312/200.7
SPLP Barium	Below det lim	mg/L	0.0318	8/30/2002	CR	1312/200.7
SPLP Cadmium	Below det lim	mg/L	0.0025	8/30/2002	CR	1312/200.7
SPLP Chromium	Below det lim	mg/L	0.005	8/30/2002	CR	1312/200.7
SPLP Lead	Below det lim	mg/L	0.0075	8/30/2002	CR	1312/200.7
SPLP Selenium	Below det lim	mg/L	0.015	8/30/2002	CR	1312/200.7
SPLP Silver	Below det lim	mg/L	0.010	8/30/2002	CR	1312/200.7
SPLP Mercury	Below det lim	mg/L	0.0004	8/29/2002	EPR	1312/245.1
Total RCRA8 Metals						
Total Arsenic	Below det lim	mg/Kg	7.83	8/30/2002	KSR	EPA 200.8
Total Barium	9.86	mg/Kg	0.744	8/30/2002	KSR	EPA 200.8
Total Cadmium	Below det lim	mg/Kg	0.744	8/30/2002	KSR	EPA 200.8
Total Chromium	12.5	mg/Kg	0.892	8/30/2002	KSR	EPA 200.8
Total Lead	4.77	mg/Kg	0.446	8/30/2002	KSR	EPA 200.8
Total Selenium	Below det lim	mg/Kg	2.38	8/30/2002	KSR	EPA 200.8
Total Silver	Below det lim	mg/Kg	0.595	8/30/2002	KSR	EPA 200.8
Total Mercury	Below det lim	mg/Kg	0.259	8/29/2002	EPR	EPA 245.1
TCLP/SPLP Preparation						
SPLP Extraction for Metals	Completed			8/26/2002	KP	SW846 1312
% Solids	63.2	%		8/27/2002	DMM	SM2540 B Mod

Lab ID No: AD35953
Client Id: P2-1 (35-37)

Collection Date: 8/22/2002
Matrix Sediment

Parameter	Results	Units	PQL	Start Date	Analyst	Method

Reviewed by:

Quality Service/Quality Assurance Depts.

Validated by:

President/Laboratory Director

9/4/2002

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

Laboratory Report Supplement

Interpretation of Total Petroleum Hydrocarbon Report

Petroleum identification is determined by comparing the GC fingerprint obtained from the sample with a library of GC fingerprints obtained from analyses of various petroleum products. Possible match categories are as follows:

Gasoline – includes regular, unleaded, premium, etc.
Fuel Oil #2 – includes home heating oil, #2 fuel oil, and diesel
Fuel Oil #4 – includes #4 fuel oil
Fuel Oil #6 – includes #6 fuel oil and bunker "C" oil
Motor Oil – includes virgin and waste automobile oil
Ligroin – includes mineral spirits, petroleum naphtha, vm&p naphtha
Aviation Fuel – includes kerosene, Jet A and JP-4
Other Oil – includes lubricating and cutting oil, and silicon oil

Factors such as microbial degradation, weathering and solubility generally prevent specific identification within a petroleum category. A finding of "unidentified" means that the sample fingerprint was characteristic of a petroleum product, but could not be matched to a fingerprint in our library.

After identification, the amount present in the sample is quantified using a calibration curve prepared from a petroleum product of the same category as the identified petroleum. Unidentified petroleum is quantified using a petroleum calibration that approximates the distribution of compounds in the sample. A * in the results column indicates the primary petroleum fingerprint calibration used to quantify unidentified samples. A ** in the results column indicates the secondary petroleum fingerprint calibration used to quantify unidentified samples. A *** in the results column indicates the tertiary petroleum fingerprint calibration used to quantify unidentified samples.

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

Laboratory Report Supplement
References

SW 846	Test Methods for Evaluating Solid Waste. Third edition, 1998
40 CFR 136	Guidelines Establishing Test Procedures for the Analysis of Pollutants Under the Clean Water Act
40 CFR 141	National Primary Drinking Water Regulations
40 CFR 143	National Secondary Drinking Water Regulations
40 CFR 160	Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), Good Laboratory Practice Standards
APHA-AWWA-WPCF	Standard Methods for the Examination of Water and Wastewater. 19th edition, 1995
ASTM D 3328	Standard Methods for the Comparison of Waterborne Petroleum Oils by Gas Chromatography
EPA 540/G-87/003	Data Quality Objectives for Remediation Response Activities, Development Process
EPA 600/4-79-012	Quality Assurance Handbook for Analytical Quality Control in Water and Wastewater Laboratories
EPA 600/4-79-019	Handbook for Analytical Quality Control in Water and Wastewater Laboratories
EPA 600/4-79-020	Method for the Chemical Analysis of Water and Wastes
EPA 600/4-82-057	Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater
EPA 600/4-85/056	Choosing Cost-Effective QA/QC Programs for Chemical Analysis
EPA 600/4-88/039	Method for the Determination of Organic Compounds in Drinking Water
CT ETPH	Analysis of Extractable Total Petroleum Hydrocarbons (ETPH)
MADEP EPH	Method for the Determination of Extractable Petroleum Hydrocarbons (EPH)
MADEP VPH	Method for the Determination of Volatile Petroleum Hydrocarbons (VPH)
QAMS 004/80	Guidelines and Specifications for Preparing Quality Assurance Program Plans, USEPA Office of Monitoring System and Quality Assurance
GC-D-52-77	Oil Spill Identification System

Acronyms & Abbreviations

AA	Atomic Absorption
ASTM	American Society for Testing and Materials
BOD	Biological Oxygen Demand
°C	degree(s) Celsius
COD	Chemical Oxygen Demand
CMR	Code of Massachusetts Regulations
DEP	Department of Environmental Protection
DI	De-ionized
DO	Dissolved Oxygen
EPA	Environmental Protection Agency
EPH	Extractable Petroleum Hydrocarbons
FID	Flame Ionization Detector
GC	Gas Chromatograph
GC / MS	Gas Chromatograph / Mass Spectrometer
ICP	Inductively Coupled Plasma
Id	Identification
MCL	Maximum Contaminant Level
MDL	Minimum Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
NTU	Nephelometric Turbidity Units
PAHs	Polynuclear Aromatic Hydrocarbons
PCBs	Polychlorinated Biphenyls
PID	Photo Ionization Detector
PQL	Practical Quantitation Limit
R	Recovery (%R: Percent Recovery)
RSD	Relative Standard Deviation
SM	Standard Method
SR	Surrogate Recovery (%SR)
SW	Solid Waste
THM	Trihalomethane(s)
TOC	Total Organic Carbon
TOX	Total Organic Halogen
TPH	Total Petroleum Hydrocarbons
VOC	Volatile Organic Compound
VPH	Volatile Petroleum Hydrocarbons

Definitions

Equipment Blank:	A sample of analyte-free media, which has been used to rinse the sampling equipment. It is collected after completion of decontamination and prior to sampling. This blank is useful in documenting adequate decontamination of sampling equipment.
Field Duplicate:	Independent samples, which are collected as close as possible to the same point in space and time. They are two separate samples taken from the same source, stored in separate containers, and analyzed independently. These duplicates are useful in documenting the precision of the sampling process.
Laboratory Control Sample (LCS):	A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.
Matrix Duplicate:	An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.
Matrix Spike:	An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.
Matrix Spike Duplicates:	Intra-laboratory split of samples spiked with identical concentrations of target analyte(s). The spiking occurs prior to sample preparation and analysis. They are used to document the precision and bias of a method in a given sample matrix.
Method Blank:	An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.
Method Detection Limit (MDL):	The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.
Practical Quantitation Limit (PQL):	The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. The PQL is generally 5 to 10 times the MDL. However, it may be nominally chosen within these guidelines to simplify data reporting. For many analytes the PQL analyte concentration is selected as the lowest non-zero standard in the calibration curve. Sample PQLs are highly matrix-dependent.
Precision:	The agreement among a set of replicate measurements without assumption of knowledge of the true value. Precision is estimated by means of duplicate/replicate analyses. These samples should contain concentrations of analyte above the MDL, and may involve the use of matrix spikes. The Relative Percent Difference (%RPD) is used to estimate the precision between two samples.
Surrogate:	An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.
Trip Blank:	A sample of analyte-free media taken from the laboratory to the sampling site and returned to the laboratory unopened. A trip blank is used to document contamination attributable to shipping and field handling procedures. This type of blank is useful in documenting contamination of volatile organic samples.

08216 0811 [illegible]

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 1 of 1

Special Handling: Cond Dot
☒ Standard TAT - ~~7 to 10~~ 5 business days
☐ Rush TAT - Date Needed: _____
- All TATs subject to laboratory approval.
- Min. 24-hour notification needed for rushes.
- All samples are disposed of after 60 days unless otherwise instructed.

Report To: David Williams
100 Shield Street
West Hartford CT 06110

Project Mgr.: David Williams

Invoice To: Michelle Malone

22081301

P.O. No.: _____ RQN: _____

Project No.: A2100 1600
Site Name: West River Bridge
Location: West/New Haven State: CT
Sampler(s): David Williams

1=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid
7=CH_3OH 8= $NaHSO_4$ 9= None 10= methanol

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW= Surface Water SO=Soil SL=Sludge A=Air
X1=_____ X2= Sediment X3=_____

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Preservative	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	CT ETPH	SPLP Extraction RCRA 8 metals	VOCs - 8260 - 5035	PAHs - 8270	reactivity (cyanide plus reactive sulfide)	ignitability (flash pt)	Corrosivity (pH)	Mass - 8 RCRA metals	PCBs - 8082	Notes:
AC 35948	P2-1 (0-2')	8/21/02		G	X2	10/9	1		1				X		X	X	X	X	X	(min. sample in jar)
AC 35949	P2-1 (5-7')	"		G	X2	10/9	1		1		X	X	X	X	X	X	X	X	X	
AC	~~P2-1 (17-19)~~	"		G	X2	10/9	1		1		X	X	X					X		
AC 35950	P2-1 (17-19)	↗																		
AC 35951	P2-1 (27-29)	"		G	X2	10/9	1		1		X	X	X					X		
AC 35952	P2-1 (30-32)	8/22/02		G	X2	10/9	1		1		X	X	X					X		
AC 35953	P2-1 (35-37)	8/22/02		G	X2	10/9	1		1		X	X	X					X		
AC																				
AC																				
AC																				

☐ Fax results when available to (860) 953-7407
☐ E-mail results when available to _____
Condition upon Receipt: ☐ Iced ☐ Ambient ☐ 8 °C

Relinquished by:	Received by:	Date:	Time:
[signature]	CEE Fridge	8/22/02	10:30 am
[signature]	[signature]	8/23/02	12:00
[signature]		8/23/02	1620

11 Almgren Drive • Agawam, Massachusetts 01001 • 413-789-9018 • Fax 413-789-4076 • www.spectrum-analytical.com

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

Massachusetts Certification # M-MA138
Rhode Island # 98 Maine # MA138
Florida # E87600 / 87562
New Hampshire # 2538
Connecticut # PH-0777
New York # 11393

ENGINEERS, INC

Consulting Environmental
100 Shield Street
West Hartford, CT 06110

Attn: David Williams

Wednesday, September 11, 2002

Report Status:
- ☑ Final Report
- ☐ Re-issued Report
- ☐ Revised Report

Client Project Number: A2100160 **Location:** West River Bridge - CT

Laboratory ID	Client Sample ID	Analyses Requested
AD37890	B-12 (0-2)	VOCs by GC/MS
		VOC Extraction (solid)
		Extractable TPH
		Ultrasonic Extraction
		SPLP Extraction for Metals
		Metals Digestion on Leachate
		Mercury Digestion on Leachate
		SPLP RCRA8 Metals
		SPLP Mercury
		PAHs by GC/MS
		Ultrasonic Extraction
		Reactivity - Cyanide/Sulfide
		Ignitability of Solids
		Flash Point
		pH
		Metals Digestion
		Mercury Digestion
		Total RCRA8 Metals
		Total Mercury
		Polychlorinated Biphenyls by GC
		% Solids
AD37891	B-13 (0-2)	VOCs by GC/MS
		VOC Extraction (solid)
		Extractable TPH
		Ultrasonic Extraction
		SPLP Extraction for Metals

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

Client Project Number: A2100160 **Location:** West River Bridge - CT

Laboratory ID	Client Sample ID	Analyses Requested
AD37891	B-13 (0-2)	Metals Digestion on Leachate
		Mercury Digestion on Leachate
		SPLP RCRA8 Metals
		SPLP Mercury
		PAHs by GC/MS
		Ultrasonic Extraction
		Reactivity - Cyanide/Sulfide
		Ignitability of Solids
		Flash Point
		pH
		Metals Digestion
		Mercury Digestion
		Total RCRA8 Metals
		Total Mercury
		Polychlorinated Biphenyls by GC
		% Solids
AD37892	B-14 (0-2)	VOCs by GC/MS
		VOC Extraction (solid)
		Extractable TPH
		Ultrasonic Extraction
		SPLP Extraction for Metals
		Metals Digestion on Leachate
		Mercury Digestion on Leachate
		SPLP RCRA8 Metals
		SPLP Mercury
		PAHs by GC/MS
		Ultrasonic Extraction
		Reactivity - Cyanide/Sulfide
		Ignitability of Solids
		Flash Point
		pH
		Metals Digestion
		Mercury Digestion
		Total RCRA8 Metals
		Total Mercury

11 Almgren Drive • Agawam, Massachusetts 01001 • 1-800-789-9115 • 413-789-9018 • Fax 413-789-4076

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

Client Project Number: A2100160 **Location:** West River Bridge - CT

Laboratory ID	Client Sample ID	Analyses Requested
AD37892	B-14 (0-2)	Polychlorinated Biphenyls by GC % Solids

I attest that all information contained within this report has been reviewed for accuracy and checked against all quality control requirements outlined in each applicable method and meet the requirements of NELAC including any data obtained from a subcontract laboratory. Please note that all solid matrix sample results are calculated on a dry weight basis unless otherwise specified.

This report may not be reproduced, except in full, without written approval from Spectrum Analytical, Inc.

Authorized by:

Hanibal C. Tayeh, Ph.D.
President/Laboratory Director

11 Almgren Drive • Agawam, Massachusetts 01001 • 1-800-789-9115 • 413-789-9018 • Fax 413-789-4076

SPECTRUM ANALYTICAL, INC.

Laboratory Report

Location: West River Bridge - CT
Client: CEE
Lab ID No: AD37890
Client Id: B-12 (0-2)

Client Project No: A2100160
Submittal Date: 9/4/2002
Collection Date: 9/3/2002
Matrix Soil

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VOC Preparation						
VOC Extraction (solid)	Field ext			9/3/2002		SW846 5035
Volatile Organic Compounds						
VOCs by GC/MS						
Acetone	Below det lim	ug/Kg	1490	9/5/2002	TR	SW846 8260B
Acrylonitrile	Below det lim	ug/Kg	74.4	9/5/2002	TR	SW846 8260B
Benzene	Below det lim	ug/Kg	74.4	9/5/2002	TR	SW846 8260B
Bromobenzene	Below det lim	ug/Kg	74.4	9/5/2002	TR	SW846 8260B
Bromochloromethane	Below det lim	ug/Kg	74.4	9/5/2002	TR	SW846 8260B
Bromodichloromethane	Below det lim	ug/Kg	74.4	9/5/2002	TR	SW846 8260B
Bromoform	Below det lim	ug/Kg	74.4	9/5/2002	TR	SW846 8260B
Bromomethane	Below det lim	ug/Kg	149	9/5/2002	TR	SW846 8260B
2-Butanone (MEK)	Below det lim	ug/Kg	744	9/5/2002	TR	SW846 8260B
n-Butylbenzene	Below det lim	ug/Kg	74.4	9/5/2002	TR	SW846 8260B
sec-Butylbenzene	Below det lim	ug/Kg	74.4	9/5/2002	TR	SW846 8260B
tert-Butylbenzene	Below det lim	ug/Kg	74.4	9/5/2002	TR	SW846 8260B
Carbon disulfide	Below det lim	ug/Kg	372	9/5/2002	TR	SW846 8260B
Carbon tetrachloride	Below det lim	ug/Kg	74.4	9/5/2002	TR	SW846 8260B
Chlorobenzene	Below det lim	ug/Kg	74.4	9/5/2002	TR	SW846 8260B
Chloroethane	Below det lim	ug/Kg	149	9/5/2002	TR	SW846 8260B
Chloroform	Below det lim	ug/Kg	74.4	9/5/2002	TR	SW846 8260B
Chloromethane	Below det lim	ug/Kg	149	9/5/2002	TR	SW846 8260B
2-Chlorotoluene	Below det lim	ug/Kg	74.4	9/5/2002	TR	SW846 8260B
4-Chlorotoluene	Below det lim	ug/Kg	74.4	9/5/2002	TR	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	Below det lim	ug/Kg	149	9/5/2002	TR	SW846 8260B
Dibromochloromethane	Below det lim	ug/Kg	74.4	9/5/2002	TR	SW846 8260B
1,2-Dibromoethane (EDB)	Below det lim	ug/Kg	74.4	9/5/2002	TR	SW846 8260B
Dibromomethane	Below det lim	ug/Kg	74.4	9/5/2002	TR	SW846 8260B
1,2-Dichlorobenzene	Below det lim	ug/Kg	74.4	9/5/2002	TR	SW846 8260B
1,3-Dichlorobenzene	Below det lim	ug/Kg	74.4	9/5/2002	TR	SW846 8260B
1,4-Dichlorobenzene	Below det lim	ug/Kg	74.4	9/5/2002	TR	SW846 8260B
Dichlorodifluoromethane	Below det lim	ug/Kg	149	9/5/2002	TR	SW846 8260B
1,1-Dichloroethane	Below det lim	ug/Kg	74.4	9/5/2002	TR	SW846 8260B
1,2-Dichloroethane	Below det lim	ug/Kg	74.4	9/5/2002	TR	SW846 8260B
1,1-Dichloroethene	Below det lim	ug/Kg	74.4	9/5/2002	TR	SW846 8260B
cis-1,2-Dichloroethene	Below det lim	ug/Kg	74.4	9/5/2002	TR	SW846 8260B
trans-1,2-Dichloroethene	Below det lim	ug/Kg	74.4	9/5/2002	TR	SW846 8260B

Lab ID No: AD37890
Client Id: B-12 (0-2)

Collection Date: 9/3/2002
Matrix Soil

Parameter	Results	Units	PQL	Start Date	Analyst	Method
1,2-Dichloropropane	Below det lim	ug/Kg	74.4	9/5/2002	TR	SW846 8260B
1,3-Dichloropropane	Below det lim	ug/Kg	74.4	9/5/2002	TR	SW846 8260B
2,2-Dichloropropane	Below det lim	ug/Kg	74.4	9/5/2002	TR	SW846 8260B
1,1-Dichloropropene	Below det lim	ug/Kg	74.4	9/5/2002	TR	SW846 8260B
cis-1,3-Dichloropropene	Below det lim	ug/Kg	74.4	9/5/2002	TR	SW846 8260B
trans-1,3-Dichloropropene	Below det lim	ug/Kg	74.4	9/5/2002	TR	SW846 8260B
Ethylbenzene	Below det lim	ug/Kg	74.4	9/5/2002	TR	SW846 8260B
Hexachlorobutadiene	Below det lim	ug/Kg	74.4	9/5/2002	TR	SW846 8260B
2-Hexanone (MBK)	Below det lim	ug/Kg	744	9/5/2002	TR	SW846 8260B
Isopropylbenzene	Below det lim	ug/Kg	74.4	9/5/2002	TR	SW846 8260B
4-Isopropyltoluene	Below det lim	ug/Kg	74.4	9/5/2002	TR	SW846 8260B
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/Kg	74.4	9/5/2002	TR	SW846 8260B
4-Methyl-2-pentanone (MIBK)	Below det lim	ug/Kg	744	9/5/2002	TR	SW846 8260B
Methylene chloride	Below det lim	ug/Kg	220	9/5/2002	TR	SW846 8260B
Naphthalene	Below det lim	ug/Kg	74.4	9/5/2002	TR	SW846 8260B
n-Propylbenzene	Below det lim	ug/Kg	74.4	9/5/2002	TR	SW846 8260B
Styrene	Below det lim	ug/Kg	74.4	9/5/2002	TR	SW846 8260B
1,1,1,2-Tetrachloroethane	Below det lim	ug/Kg	74.4	9/5/2002	TR	SW846 8260B
1,1,2,2-Tetrachloroethane	Below det lim	ug/Kg	74.4	9/5/2002	TR	SW846 8260B
Tetrachloroethene (PCE)	Below det lim	ug/Kg	74.4	9/5/2002	TR	SW846 8260B
Toluene	Below det lim	ug/Kg	74.4	9/5/2002	TR	SW846 8260B
1,2,3-Trichlorobenzene	Below det lim	ug/Kg	74.4	9/5/2002	TR	SW846 8260B
1,2,4-Trichlorobenzene	Below det lim	ug/Kg	74.4	9/5/2002	TR	SW846 8260B
1,1,1-Trichloroethane	Below det lim	ug/Kg	74.4	9/5/2002	TR	SW846 8260B
1,1,2-Trichloroethane	Below det lim	ug/Kg	74.4	9/5/2002	TR	SW846 8260B
Trichloroethene (TCE)	Below det lim	ug/Kg	74.4	9/5/2002	TR	SW846 8260B
Trichlorofluoromethane	Below det lim	ug/Kg	74.4	9/5/2002	TR	SW846 8260B
1,2,3-Trichloropropane	Below det lim	ug/Kg	74.4	9/5/2002	TR	SW846 8260B
1,2,4-Trimethylbenzene	Below det lim	ug/Kg	74.4	9/5/2002	TR	SW846 8260B
1,3,5-Trimethylbenzene	Below det lim	ug/Kg	74.4	9/5/2002	TR	SW846 8260B
Vinyl chloride	Below det lim	ug/Kg	74.4	9/5/2002	TR	SW846 8260B
m,p-Xylenes	Below det lim	ug/Kg	149	9/5/2002	TR	SW846 8260B
o-Xylene	Below det lim	ug/Kg	74.4	9/5/2002	TR	SW846 8260B
4-Bromofluorobenzene (%SR)	76	ug/Kg	0.000	9/5/2002	TR	SW846 8260B
1,4-Difluorobenzene (%SR)	109	ug/Kg	0.000	9/5/2002	TR	SW846 8260B
Chlorobenzene-d5 (%SR)	96	ug/Kg	0.000	9/5/2002	TR	SW846 8260B
TPH Preparation						
Ultrasonic Extraction	Completed			9/10/2002	RT	SW846 3550B
Petroleum Hydrocarbon Analysis						
Extractable TPH						
Total Petroleum Hydrocarbons (C9-C36)	77	mg/Kg	20	9/10/2002	JD	CT ETPH
Gasoline	Below det lim	mg/Kg	20	9/10/2002	JD	CT ETPH

Lab ID No: AD37890
Client Id: B-12 (0-2)

Collection Date: 9/3/2002
Matrix Soil

Parameter	Results	Units	PQL	Start Date	Analyst	Method
Fuel Oil #2	Below det lim	mg/Kg	20	9/10/2002	JD	CT ETPH
Fuel Oil #4	Below det lim	mg/Kg	20	9/10/2002	JD	CT ETPH
Fuel Oil #6	Below det lim	mg/Kg	20	9/10/2002	JD	CT ETPH
Motor Oil	Below det lim	mg/Kg	20	9/10/2002	JD	CT ETPH
Aviation Fuel	Below det lim	mg/Kg	20	9/10/2002	JD	CT ETPH
Unidentified	77	mg/Kg	20	9/10/2002	JD	CT ETPH
Other Oil	*	mg/Kg	20	9/10/2002	JD	CT ETPH
1-Chloro-octadecane (%SR)	82	mg/Kg	0.	9/10/2002	JD	CT ETPH
SVOC Preparation						
Ultrasonic Extraction	Completed			9/10/2002	RT	SW846 3550B
Semivolatile Organic Compounds						
PAHs by GC/MS						
Naphthalene	Below det lim	ug/Kg	190	9/10/2002	MSL	SW846 8270C
2-Methylnaphthalene	Below det lim	ug/Kg	190	9/10/2002	MSL	SW846 8270C
1-Methylnaphthalene	Below det lim	ug/Kg	190	9/10/2002	MSL	SW846 8270C
Acenaphthylene	Below det lim	ug/Kg	190	9/10/2002	MSL	SW846 8270C
Acenaphthene	Below det lim	ug/Kg	190	9/10/2002	MSL	SW846 8270C
Fluorene	Below det lim	ug/Kg	190	9/10/2002	MSL	SW846 8270C
Phenanthrene	Below det lim	ug/Kg	190	9/10/2002	MSL	SW846 8270C
Anthracene	Below det lim	ug/Kg	190	9/10/2002	MSL	SW846 8270C
Fluoranthene	340	ug/Kg	190	9/10/2002	MSL	SW846 8270C
Pyrene	370	ug/Kg	190	9/10/2002	MSL	SW846 8270C
Benzo (a) anthracene	Below det lim	ug/Kg	190	9/10/2002	MSL	SW846 8270C
Chrysene	Below det lim	ug/Kg	190	9/10/2002	MSL	SW846 8270C
Benzo (b) fluoranthene	Below det lim	ug/Kg	190	9/10/2002	MSL	SW846 8270C
Benzo (k) fluoranthene	Below det lim	ug/Kg	190	9/10/2002	MSL	SW846 8270C
Benzo (a) pyrene	Below det lim	ug/Kg	190	9/10/2002	MSL	SW846 8270C
Indeno (1,2,3-cd) pyrene	Below det lim	ug/Kg	190	9/10/2002	MSL	SW846 8270C
Dibenzo (a,h) anthracene	Below det lim	ug/Kg	190	9/10/2002	MSL	SW846 8270C
Benzo (g,h,i) perylene	Below det lim	ug/Kg	190	9/10/2002	MSL	SW846 8270C
2-Fluorobiphenyl (%SR)	60	ug/Kg	0.000	9/10/2002	MSL	SW846 8270C
Terphenyl-d14 (%SR)	72	ug/Kg	0.000	9/10/2002	MSL	SW846 8270C
Semivolatile Organic Compounds						
Polychlorinated Biphenyls by GC						
PCB-1016	Below det lim	ug/Kg	32	9/10/2002	MP	SW846 8082
PCB-1221	Below det lim	ug/Kg	32	9/10/2002	MP	SW846 8082
PCB-1232	Below det lim	ug/Kg	32	9/10/2002	MP	SW846 8082
PCB-1242	Below det lim	ug/Kg	32	9/10/2002	MP	SW846 8082
PCB-1248	Below det lim	ug/Kg	32	9/10/2002	MP	SW846 8082
PCB-1254	Below det lim	ug/Kg	32	9/10/2002	MP	SW846 8082
PCB-1260	Below det lim	ug/Kg	32	9/10/2002	MP	SW846 8082
Decachlorobiphenyl (%SR)	94	ug/Kg	0.00	9/10/2002	MP	SW846 8082

Lab ID No: AD37890
Client Id: B-12 (0-2)

Collection Date: 9/3/2002
Matrix Soil

Parameter	Results	Units	PQL	Start Date		Analyst	Method
Metals Preparation							
Mercury Digestion	Completed			9/6/2002		KL	EPA 245.1
Mercury Digestion on Leachate	Completed			9/6/2002		LK	EPA 245.1
Metals Digestion	Completed			9/6/2002		KL	EPA 200.7
Metals Digestion on Leachate	Completed			9/6/2002		LK	EPA 200.7
Metals Analysis							
SPLP RCRA8 Metals							
SPLP Arsenic	Below det lim	mg/L	0.015	9/9/2002		CRE	1312/200.7
SPLP Barium	Below det lim	mg/L	0.050	9/9/2002		CRE	1312/200.7
SPLP Cadmium	Below det lim	mg/L	0.0025	9/9/2002		CRE	1312/200.7
SPLP Chromium	0.007	mg/L	0.005	9/9/2002		CRE	1312/200.7
SPLP Lead	0.0299	mg/L	0.0075	9/9/2002		CRE	1312/200.7
SPLP Selenium	Below det lim	mg/L	0.015	9/9/2002		CRE	1312/200.7
SPLP Silver	Below det lim	mg/L	0.010	9/9/2002		CRE	1312/200.7
SPLP Mercury	Below det lim	mg/L	0.0004	9/9/2002		LFR	1312/245.1
Total RCRA8 Metals							
Total Arsenic	3.65	mg/Kg	3.46	9/9/2002		CRE	EPA 200.7
Total Barium	26.3	mg/Kg	1.15	9/9/2002		CRE	EPA 200.7
Total Cadmium	Below det lim	mg/Kg	0.577	9/9/2002		CRE	EPA 200.7
Total Chromium	11.0	mg/Kg	1.15	9/9/2002		CRE	EPA 200.7
Total Lead	69.5	mg/Kg	1.73	9/9/2002		CRE	EPA 200.7
Total Selenium	Below det lim	mg/Kg	3.46	9/9/2002		CRE	EPA 200.7
Total Silver	Below det lim	mg/Kg	2.31	9/9/2002		CRE	EPA 200.7
Total Mercury	Below det lim	mg/Kg	0.201	9/10/2002		LFR	EPA 245.1
General Chemistry							
Flash Point	>200	degree F	200	9/5/2002	11:00	JC	SW846 1010
Ignitability of Solids	Negative	pos/neg		9/5/2002	11:00	JC	SW846 1030
pH	7.31@19.8	pH Units		9/5/2002	11:00	JC	SW846 9045
TCLP/SPLP Preparation							
SPLP Extraction for Metals	Completed			9/5/2002		KP	SW846 1312
General Chemistry							
Reactivity - Cyanide/Sulfide							
Reactivity	Negative	mg/Kg		9/6/2002		AW	SW846 7.3
Reactivity Cyanide	Below det lim	mg/Kg	0.28	9/6/2002		AW	SW846 7.3
Reactivity Sulfide	Below det lim	mg/Kg	28	9/6/2002		AW	SW846 7.3
% Solids	86.5	%		9/5/2002		BH	SM2540 B Mod

Lab ID No: AD37891 **Collection Date:** 9/3/2002
Client Id: B-13 (0-2) **Matrix** Soil

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VOC Preparation						
VOC Extraction (solid)	Field ext			9/3/2002		SW846 5035
Volatile Organic Compounds						
VOCs by GC/MS						
Acetone	Below det lim	ug/Kg	2060	9/5/2002	TR	SW846 8260B
Acrylonitrile	Below det lim	ug/Kg	103	9/5/2002	TR	SW846 8260B
Benzene	Below det lim	ug/Kg	103	9/5/2002	TR	SW846 8260B
Bromobenzene	Below det lim	ug/Kg	103	9/5/2002	TR	SW846 8260B
Bromochloromethane	Below det lim	ug/Kg	103	9/5/2002	TR	SW846 8260B
Bromodichloromethane	Below det lim	ug/Kg	103	9/5/2002	TR	SW846 8260B
Bromoform	Below det lim	ug/Kg	103	9/5/2002	TR	SW846 8260B
Bromomethane	Below det lim	ug/Kg	206	9/5/2002	TR	SW846 8260B
2-Butanone (MEK)	Below det lim	ug/Kg	1030	9/5/2002	TR	SW846 8260B
n-Butylbenzene	Below det lim	ug/Kg	103	9/5/2002	TR	SW846 8260B
sec-Butylbenzene	Below det lim	ug/Kg	103	9/5/2002	TR	SW846 8260B
tert-Butylbenzene	Below det lim	ug/Kg	103	9/5/2002	TR	SW846 8260B
Carbon disulfide	Below det lim	ug/Kg	515	9/5/2002	TR	SW846 8260B
Carbon tetrachloride	Below det lim	ug/Kg	103	9/5/2002	TR	SW846 8260B
Chlorobenzene	Below det lim	ug/Kg	103	9/5/2002	TR	SW846 8260B
Chloroethane	Below det lim	ug/Kg	206	9/5/2002	TR	SW846 8260B
Chloroform	Below det lim	ug/Kg	103	9/5/2002	TR	SW846 8260B
Chloromethane	Below det lim	ug/Kg	206	9/5/2002	TR	SW846 8260B
2-Chlorotoluene	Below det lim	ug/Kg	103	9/5/2002	TR	SW846 8260B
4-Chlorotoluene	Below det lim	ug/Kg	103	9/5/2002	TR	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	Below det lim	ug/Kg	206	9/5/2002	TR	SW846 8260B
Dibromochloromethane	Below det lim	ug/Kg	103	9/5/2002	TR	SW846 8260B
1,2-Dibromoethane (EDB)	Below det lim	ug/Kg	103	9/5/2002	TR	SW846 8260B
Dibromomethane	Below det lim	ug/Kg	103	9/5/2002	TR	SW846 8260B
1,2-Dichlorobenzene	Below det lim	ug/Kg	103	9/5/2002	TR	SW846 8260B
1,3-Dichlorobenzene	Below det lim	ug/Kg	103	9/5/2002	TR	SW846 8260B
1,4-Dichlorobenzene	Below det lim	ug/Kg	103	9/5/2002	TR	SW846 8260B
Dichlorodifluoromethane	Below det lim	ug/Kg	206	9/5/2002	TR	SW846 8260B
1,1-Dichloroethane	Below det lim	ug/Kg	103	9/5/2002	TR	SW846 8260B
1,2-Dichloroethane	Below det lim	ug/Kg	103	9/5/2002	TR	SW846 8260B
1,1-Dichloroethene	Below det lim	ug/Kg	103	9/5/2002	TR	SW846 8260B
cis-1,2-Dichloroethene	Below det lim	ug/Kg	103	9/5/2002	TR	SW846 8260B
trans-1,2-Dichloroethene	Below det lim	ug/Kg	103	9/5/2002	TR	SW846 8260B
1,2-Dichloropropane	Below det lim	ug/Kg	103	9/5/2002	TR	SW846 8260B
1,3-Dichloropropane	Below det lim	ug/Kg	103	9/5/2002	TR	SW846 8260B
2,2-Dichloropropane	Below det lim	ug/Kg	103	9/5/2002	TR	SW846 8260B
1,1-Dichloropropene	Below det lim	ug/Kg	103	9/5/2002	TR	SW846 8260B
cis-1,3-Dichloropropene	Below det lim	ug/Kg	103	9/5/2002	TR	SW846 8260B

Lab ID No: AD37891
Client Id: B-13 (0-2)

Collection Date: 9/3/2002
Matrix Soil

Parameter	Results	Units	PQL	Start Date	Analyst	Method
trans-1,3-Dichloropropene	Below det lim	ug/Kg	103	9/5/2002	TR	SW846 8260B
Ethylbenzene	Below det lim	ug/Kg	103	9/5/2002	TR	SW846 8260B
Hexachlorobutadiene	Below det lim	ug/Kg	103	9/5/2002	TR	SW846 8260B
2-Hexanone (MBK)	Below det lim	ug/Kg	1030	9/5/2002	TR	SW846 8260B
Isopropylbenzene	Below det lim	ug/Kg	103	9/5/2002	TR	SW846 8260B
4-Isopropyltoluene	Below det lim	ug/Kg	103	9/5/2002	TR	SW846 8260B
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/Kg	103	9/5/2002	TR	SW846 8260B
4-Methyl-2-pentanone (MIBK)	Below det lim	ug/Kg	1030	9/5/2002	TR	SW846 8260B
Methylene chloride	Below det lim	ug/Kg	240	9/5/2002	TR	SW846 8260B
Naphthalene	Below det lim	ug/Kg	103	9/5/2002	TR	SW846 8260B
n-Propylbenzene	Below det lim	ug/Kg	103	9/5/2002	TR	SW846 8260B
Styrene	Below det lim	ug/Kg	103	9/5/2002	TR	SW846 8260B
1,1,1,2-Tetrachloroethane	Below det lim	ug/Kg	103	9/5/2002	TR	SW846 8260B
1,1,2,2-Tetrachloroethane	Below det lim	ug/Kg	103	9/5/2002	TR	SW846 8260B
Tetrachloroethene (PCE)	Below det lim	ug/Kg	103	9/5/2002	TR	SW846 8260B
Toluene	Below det lim	ug/Kg	103	9/5/2002	TR	SW846 8260B
1,2,3-Trichlorobenzene	Below det lim	ug/Kg	103	9/5/2002	TR	SW846 8260B
1,2,4-Trichlorobenzene	Below det lim	ug/Kg	103	9/5/2002	TR	SW846 8260B
1,1,1-Trichloroethane	Below det lim	ug/Kg	103	9/5/2002	TR	SW846 8260B
1,1,2-Trichloroethane	Below det lim	ug/Kg	103	9/5/2002	TR	SW846 8260B
Trichloroethene (TCE)	Below det lim	ug/Kg	103	9/5/2002	TR	SW846 8260B
Trichlorofluoromethane	Below det lim	ug/Kg	103	9/5/2002	TR	SW846 8260B
1,2,3-Trichloropropane	Below det lim	ug/Kg	103	9/5/2002	TR	SW846 8260B
1,2,4-Trimethylbenzene	Below det lim	ug/Kg	103	9/5/2002	TR	SW846 8260B
1,3,5-Trimethylbenzene	Below det lim	ug/Kg	103	9/5/2002	TR	SW846 8260B
Vinyl chloride	Below det lim	ug/Kg	103	9/5/2002	TR	SW846 8260B
m,p-Xylenes	Below det lim	ug/Kg	206	9/5/2002	TR	SW846 8260B
o-Xylene	Below det lim	ug/Kg	103	9/5/2002	TR	SW846 8260B
4-Bromofluorobenzene (%SR)	75	ug/Kg	0.000	9/5/2002	TR	SW846 8260B
1,4-Difluorobenzene (%SR)	110	ug/Kg	0.000	9/5/2002	TR	SW846 8260B
Chlorobenzene-d5 (%SR)	95	ug/Kg	0.000	9/5/2002	TR	SW846 8260B
TPH Preparation						
Ultrasonic Extraction	Completed			9/9/2002	RT	SW846 3550B
Petroleum Hydrocarbon Analysis						
Extractable TPH						
Total Petroleum Hydrocarbons (C9-C36)	270	mg/Kg	20	9/10/2002	JD	CT ETPH
Gasoline	Below det lim	mg/Kg	20	9/10/2002	JD	CT ETPH
Fuel Oil #2	Below det lim	mg/Kg	20	9/10/2002	JD	CT ETPH
Fuel Oil #4	Below det lim	mg/Kg	20	9/10/2002	JD	CT ETPH
Fuel Oil #6	Below det lim	mg/Kg	20	9/10/2002	JD	CT ETPH
Motor Oil	*	mg/Kg	20	9/10/2002	JD	CT ETPH
Aviation Fuel	Below det lim	mg/Kg	20	9/10/2002	JD	CT ETPH

Lab ID No: AD37891
Client Id: B-13 (0-2)

Collection Date: 9/3/2002
Matrix Soil

Parameter	Results	Units	PQL	Start Date	Analyst	Method
Unidentified	270	mg/Kg	20	9/10/2002	JD	CT ETPH
Other Oil	**	mg/Kg	20	9/10/2002	JD	CT ETPH
1-Chloro-octadecane (%SR)	70	mg/Kg	0.	9/10/2002	JD	CT ETPH
SVOC Preparation						
Ultrasonic Extraction	Completed			9/9/2002	RT	SW846 3550B
Semivolatile Organic Compounds						
PAHs by GC/MS						
Naphthalene	Below det lim	ug/Kg	178	9/10/2002	MSL	SW846 8270C
2-Methylnaphthalene	Below det lim	ug/Kg	178	9/10/2002	MSL	SW846 8270C
1-Methylnaphthalene	Below det lim	ug/Kg	178	9/10/2002	MSL	SW846 8270C
Acenaphthylene	830	ug/Kg	178	9/10/2002	MSL	SW846 8270C
Acenaphthene	Below det lim	ug/Kg	178	9/10/2002	MSL	SW846 8270C
Fluorene	Below det lim	ug/Kg	178	9/10/2002	MSL	SW846 8270C
Phenanthrene	3,200	ug/Kg	178	9/10/2002	MSL	SW846 8270C
Anthracene	730	ug/Kg	178	9/10/2002	MSL	SW846 8270C
Fluoranthene	9,100	ug/Kg	178	9/10/2002	MSL	SW846 8270C
Pyrene	9,200	ug/Kg	178	9/10/2002	MSL	SW846 8270C
Benzo (a) anthracene	4,700	ug/Kg	178	9/10/2002	MSL	SW846 8270C
Chrysene	4,700	ug/Kg	178	9/10/2002	MSL	SW846 8270C
Benzo (b) fluoranthene	5,200	ug/Kg	178	9/10/2002	MSL	SW846 8270C
Benzo (k) fluoranthene	2,600	ug/Kg	178	9/10/2002	MSL	SW846 8270C
Benzo (a) pyrene	4,700	ug/Kg	178	9/10/2002	MSL	SW846 8270C
Indeno (1,2,3-cd) pyrene	3,100	ug/Kg	178	9/10/2002	MSL	SW846 8270C
Dibenzo (a,h) anthracene	Below det lim	ug/Kg	178	9/10/2002	MSL	SW846 8270C
Benzo (g,h,i) perylene	3,600	ug/Kg	178	9/10/2002	MSL	SW846 8270C
2-Fluorobiphenyl (%SR)	58	ug/Kg	0.000	9/10/2002	MSL	SW846 8270C
Terphenyl-d14 (%SR)	75	ug/Kg	0.000	9/10/2002	MSL	SW846 8270C
Semivolatile Organic Compounds						
Polychlorinated Biphenyls by GC						
PCB-1016	Below det lim	ug/Kg	30	9/10/2002	MP	SW846 8082
PCB-1221	Below det lim	ug/Kg	30	9/10/2002	MP	SW846 8082
PCB-1232	Below det lim	ug/Kg	30	9/10/2002	MP	SW846 8082
PCB-1242	Below det lim	ug/Kg	30	9/10/2002	MP	SW846 8082
PCB-1248	Below det lim	ug/Kg	30	9/10/2002	MP	SW846 8082
PCB-1254	Below det lim	ug/Kg	30	9/10/2002	MP	SW846 8082
PCB-1260	Below det lim	ug/Kg	30	9/10/2002	MP	SW846 8082
Decachlorobiphenyl (%SR)	124	ug/Kg	0.00	9/10/2002	MP	SW846 8082
Metals Preparation						
Mercury Digestion	Completed			9/6/2002	KL	EPA 245.1
Mercury Digestion on Leachate	Completed			9/6/2002	LK	EPA 245.1
Metals Digestion	Completed			9/6/2002	KL	EPA 200.7

Lab ID No: AD37891
Client Id: B-13 (0-2)

Collection Date: 9/3/2002
Matrix Soil

Parameter	Results	Units	PQL	Start Date		Analyst	Method
Metals Digestion on Leachate	Completed			9/6/2002		LK	EPA 200.7
Metals Analysis							
SPLP RCRA8 Metals							
SPLP Arsenic	Below det lim	mg/L	0.015	9/9/2002		CRE	1312/200.7
SPLP Barium	Below det lim	mg/L	0.060	9/9/2002		CRE	1312/200.7
SPLP Cadmium	Below det lim	mg/L	0.0025	9/9/2002		CRE	1312/200.7
SPLP Chromium	0.0322	mg/L	0.005	9/9/2002		CRE	1312/200.7
SPLP Lead	Below det lim	mg/L	0.0075	9/9/2002		CRE	1312/200.7
SPLP Selenium	Below det lim	mg/L	0.015	9/9/2002		CRE	1312/200.7
SPLP Silver	Below det lim	mg/L	0.010	9/9/2002		CRE	1312/200.7
SPLP Mercury	Below det lim	mg/L	0.0004	9/9/2002		LFR	1312/245.1
Total RCRA8 Metals							
Total Arsenic	Below det lim	mg/Kg	2.79	9/9/2002		CRE	EPA 200.7
Total Barium	15.7	mg/Kg	0.930	9/9/2002		CRE	EPA 200.7
Total Cadmium	Below det lim	mg/Kg	0.465	9/9/2002		CRE	EPA 200.7
Total Chromium	20.2	mg/Kg	0.930	9/9/2002		CRE	EPA 200.7
Total Lead	20.7	mg/Kg	1.39	9/9/2002		CRE	EPA 200.7
Total Selenium	Below det lim	mg/Kg	2.79	9/9/2002		CRE	EPA 200.7
Total Silver	Below det lim	mg/Kg	1.86	9/9/2002		CRE	EPA 200.7
Total Mercury	Below det lim	mg/Kg	0.175	9/10/2002		LFR	EPA 245.1
General Chemistry							
Flash Point	>200	degree F	200	9/5/2002	11:00	JC	SW846 1010
Ignitability of Solids	Negative	pos/neg		9/5/2002	11:00	JC	SW846 1030
pH	6.93@19.6	pH Units		9/5/2002	11:00	JC	SW846 9045
TCLP/SPLP Preparation							
SPLP Extraction for Metals	Completed			9/6/2002		KP	SW846 1312
General Chemistry							
Reactivity - Cyanide/Sulfide							
Reactivity	Negative	mg/Kg		9/6/2002		AW	SW846 7.3
Reactivity Cyanide	Below det lim	mg/Kg	0.28	9/6/2002		AW	SW846 7.3
Reactivity Sulfide	Below det lim	mg/Kg	28	9/6/2002		AW	SW846 7.3
% Solids	88.2	%		9/5/2002		BH	SM2540 B Mod

Lab ID No: AD37892
Client Id: B-14 (0-2)

Collection Date: 9/3/2002
Matrix Soil

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VOC Preparation						
VOC Extraction (solid)	Field ext			9/3/2002		SW846 5035
Volatile Organic Compounds						
VOCs by GC/MS						
Acetone	Below det lim	ug/Kg	1420	9/5/2002	TR	SW846 8260B
Acrylonitrile	Below det lim	ug/Kg	71.1	9/5/2002	TR	SW846 8260B
Benzene	Below det lim	ug/Kg	71.1	9/5/2002	TR	SW846 8260B
Bromobenzene	Below det lim	ug/Kg	71.1	9/5/2002	TR	SW846 8260B
Bromochloromethane	Below det lim	ug/Kg	71.1	9/5/2002	TR	SW846 8260B
Bromodichloromethane	Below det lim	ug/Kg	71.1	9/5/2002	TR	SW846 8260B
Bromoform	Below det lim	ug/Kg	71.1	9/5/2002	TR	SW846 8260B
Bromomethane	Below det lim	ug/Kg	142	9/5/2002	TR	SW846 8260B
2-Butanone (MEK)	Below det lim	ug/Kg	711	9/5/2002	TR	SW846 8260B
n-Butylbenzene	Below det lim	ug/Kg	71.1	9/5/2002	TR	SW846 8260B
sec-Butylbenzene	Below det lim	ug/Kg	71.1	9/5/2002	TR	SW846 8260B
tert-Butylbenzene	Below det lim	ug/Kg	71.1	9/5/2002	TR	SW846 8260B
Carbon disulfide	Below det lim	ug/Kg	356	9/5/2002	TR	SW846 8260B
Carbon tetrachloride	Below det lim	ug/Kg	71.1	9/5/2002	TR	SW846 8260B
Chlorobenzene	Below det lim	ug/Kg	71.1	9/5/2002	TR	SW846 8260B
Chloroethane	Below det lim	ug/Kg	142	9/5/2002	TR	SW846 8260B
Chloroform	Below det lim	ug/Kg	71.1	9/5/2002	TR	SW846 8260B
Chloromethane	Below det lim	ug/Kg	142	9/5/2002	TR	SW846 8260B
2-Chlorotoluene	Below det lim	ug/Kg	71.1	9/5/2002	TR	SW846 8260B
4-Chlorotoluene	Below det lim	ug/Kg	71.1	9/5/2002	TR	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	Below det lim	ug/Kg	142	9/5/2002	TR	SW846 8260B
Dibromochloromethane	Below det lim	ug/Kg	71.1	9/5/2002	TR	SW846 8260B
1,2-Dibromoethane (EDB)	Below det lim	ug/Kg	71.1	9/5/2002	TR	SW846 8260B
Dibromomethane	Below det lim	ug/Kg	71.1	9/5/2002	TR	SW846 8260B
1,2-Dichlorobenzene	Below det lim	ug/Kg	71.1	9/5/2002	TR	SW846 8260B
1,3-Dichlorobenzene	Below det lim	ug/Kg	71.1	9/5/2002	TR	SW846 8260B
1,4-Dichlorobenzene	Below det lim	ug/Kg	71.1	9/5/2002	TR	SW846 8260B
Dichlorodifluoromethane	Below det lim	ug/Kg	142	9/5/2002	TR	SW846 8260B
1,1-Dichloroethane	Below det lim	ug/Kg	71.1	9/5/2002	TR	SW846 8260B
1,2-Dichloroethane	Below det lim	ug/Kg	71.1	9/5/2002	TR	SW846 8260B
1,1-Dichloroethene	Below det lim	ug/Kg	71.1	9/5/2002	TR	SW846 8260B
cis-1,2-Dichloroethene	Below det lim	ug/Kg	71.1	9/5/2002	TR	SW846 8260B
trans-1,2-Dichloroethene	Below det lim	ug/Kg	71.1	9/5/2002	TR	SW846 8260B
1,2-Dichloropropane	Below det lim	ug/Kg	71.1	9/5/2002	TR	SW846 8260B
1,3-Dichloropropane	Below det lim	ug/Kg	71.1	9/5/2002	TR	SW846 8260B
2,2-Dichloropropane	Below det lim	ug/Kg	71.1	9/5/2002	TR	SW846 8260B
1,1-Dichloropropene	Below det lim	ug/Kg	71.1	9/5/2002	TR	SW846 8260B
cis-1,3-Dichloropropene	Below det lim	ug/Kg	71.1	9/5/2002	TR	SW846 8260B

Lab ID No: AD37892 **Collection Date:** 9/3/2002
Client Id: B-14 (0-2) **Matrix** Soil

Parameter	Results	Units	PQL	Start Date	Analyst	Method
trans-1,3-Dichloropropene	Below det lim	ug/Kg	71.1	9/5/2002	TR	SW846 8260B
Ethylbenzene	Below det lim	ug/Kg	71.1	9/5/2002	TR	SW846 8260B
Hexachlorobutadiene	Below det lim	ug/Kg	71.1	9/5/2002	TR	SW846 8260B
2-Hexanone (MBK)	Below det lim	ug/Kg	711	9/5/2002	TR	SW846 8260B
Isopropylbenzene	Below det lim	ug/Kg	71.1	9/5/2002	TR	SW846 8260B
4-Isopropyltoluene	Below det lim	ug/Kg	71.1	9/5/2002	TR	SW846 8260B
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/Kg	71.1	9/5/2002	TR	SW846 8260B
4-Methyl-2-pentanone (MIBK)	Below det lim	ug/Kg	711	9/5/2002	TR	SW846 8260B
Methylene chloride	Below det lim	ug/Kg	200	9/5/2002	TR	SW846 8260B
Naphthalene	Below det lim	ug/Kg	71.1	9/5/2002	TR	SW846 8260B
n-Propylbenzene	Below det lim	ug/Kg	71.1	9/5/2002	TR	SW846 8260B
Styrene	Below det lim	ug/Kg	71.1	9/5/2002	TR	SW846 8260B
1,1,1,2-Tetrachloroethane	Below det lim	ug/Kg	71.1	9/5/2002	TR	SW846 8260B
1,1,2,2-Tetrachloroethane	Below det lim	ug/Kg	71.1	9/5/2002	TR	SW846 8260B
Tetrachloroethene (PCE)	Below det lim	ug/Kg	71.1	9/5/2002	TR	SW846 8260B
Toluene	Below det lim	ug/Kg	71.1	9/5/2002	TR	SW846 8260B
1,2,3-Trichlorobenzene	Below det lim	ug/Kg	71.1	9/5/2002	TR	SW846 8260B
1,2,4-Trichlorobenzene	Below det lim	ug/Kg	71.1	9/5/2002	TR	SW846 8260B
1,1,1-Trichloroethane	Below det lim	ug/Kg	71.1	9/5/2002	TR	SW846 8260B
1,1,2-Trichloroethane	Below det lim	ug/Kg	71.1	9/5/2002	TR	SW846 8260B
Trichloroethene (TCE)	Below det lim	ug/Kg	71.1	9/5/2002	TR	SW846 8260B
Trichlorofluoromethane	Below det lim	ug/Kg	71.1	9/5/2002	TR	SW846 8260B
1,2,3-Trichloropropane	Below det lim	ug/Kg	71.1	9/5/2002	TR	SW846 8260B
1,2,4-Trimethylbenzene	Below det lim	ug/Kg	71.1	9/5/2002	TR	SW846 8260B
1,3,5-Trimethylbenzene	Below det lim	ug/Kg	71.1	9/5/2002	TR	SW846 8260B
Vinyl chloride	Below det lim	ug/Kg	71.1	9/5/2002	TR	SW846 8260B
m,p-Xylenes	Below det lim	ug/Kg	142	9/5/2002	TR	SW846 8260B
o-Xylene	Below det lim	ug/Kg	71.1	9/5/2002	TR	SW846 8260B
4-Bromofluorobenzene (%SR)	77	ug/Kg	0.000	9/5/2002	TR	SW846 8260B
1,4-Difluorobenzene (%SR)	111	ug/Kg	0.000	9/5/2002	TR	SW846 8260B
Chlorobenzene-d5 (%SR)	97	ug/Kg	0.000	9/5/2002	TR	SW846 8260B
TPH Preparation						
Ultrasonic Extraction	Completed			9/9/2002	RT	SW846 3550B
Petroleum Hydrocarbon Analysis						
Extractable TPH						
Total Petroleum Hydrocarbons (C9-C36)	Below det lim	mg/Kg	10	9/10/2002	JD	CT ETPH
Gasoline	Below det lim	mg/Kg	10	9/10/2002	JD	CT ETPH
Fuel Oil #2	Below det lim	mg/Kg	10	9/10/2002	JD	CT ETPH
Fuel Oil #4	Below det lim	mg/Kg	10	9/10/2002	JD	CT ETPH
Fuel Oil #6	Below det lim	mg/Kg	10	9/10/2002	JD	CT ETPH
Motor Oil	Below det lim	mg/Kg	10	9/10/2002	JD	CT ETPH
Aviation Fuel	Below det lim	mg/Kg	10	9/10/2002	JD	CT ETPH

Lab ID No: AD37892
Client Id: B-14 (0-2)

Collection Date: 9/3/2002
Matrix Soil

Parameter	Results	Units	PQL	Start Date	Analyst	Method
Unidentified	Below det lim	mg/Kg	10	9/10/2002	JD	CT ETPH
Other Oil	Below det lim	mg/Kg	10	9/10/2002	JD	CT ETPH
1-Chloro-octadecane (%SR)	85	mg/Kg	0.	9/10/2002	JD	CT ETPH
SVOC Preparation						
Ultrasonic Extraction	Completed			9/9/2002	RT	SW846 3550B
Semivolatile Organic Compounds						
PAHs by GC/MS						
Naphthalene	Below det lim	ug/Kg	180	9/10/2002	MSL	SW846 8270C
2-Methylnaphthalene	Below det lim	ug/Kg	180	9/10/2002	MSL	SW846 8270C
1-Methylnaphthalene	Below det lim	ug/Kg	180	9/10/2002	MSL	SW846 8270C
Acenaphthylene	Below det lim	ug/Kg	180	9/10/2002	MSL	SW846 8270C
Acenaphthene	Below det lim	ug/Kg	180	9/10/2002	MSL	SW846 8270C
Fluorene	Below det lim	ug/Kg	180	9/10/2002	MSL	SW846 8270C
Phenanthrene	Below det lim	ug/Kg	180	9/10/2002	MSL	SW846 8270C
Anthracene	Below det lim	ug/Kg	180	9/10/2002	MSL	SW846 8270C
Fluoranthene	Below det lim	ug/Kg	180	9/10/2002	MSL	SW846 8270C
Pyrene	Below det lim	ug/Kg	180	9/10/2002	MSL	SW846 8270C
Benzo (a) anthracene	Below det lim	ug/Kg	180	9/10/2002	MSL	SW846 8270C
Chrysene	Below det lim	ug/Kg	180	9/10/2002	MSL	SW846 8270C
Benzo (b) fluoranthene	Below det lim	ug/Kg	180	9/10/2002	MSL	SW846 8270C
Benzo (k) fluoranthene	Below det lim	ug/Kg	180	9/10/2002	MSL	SW846 8270C
Benzo (a) pyrene	Below det lim	ug/Kg	180	9/10/2002	MSL	SW846 8270C
Indeno (1,2,3-cd) pyrene	Below det lim	ug/Kg	180	9/10/2002	MSL	SW846 8270C
Dibenzo (a,h) anthracene	Below det lim	ug/Kg	180	9/10/2002	MSL	SW846 8270C
Benzo (g,h,i) perylene	Below det lim	ug/Kg	180	9/10/2002	MSL	SW846 8270C
2-Fluorobiphenyl (%SR)	58	ug/Kg	0.000	9/10/2002	MSL	SW846 8270C
Terphenyl-d14 (%SR)	71	ug/Kg	0.000	9/10/2002	MSL	SW846 8270C
Semivolatile Organic Compounds						
Polychlorinated Biphenyls by GC						
PCB-1016	Below det lim	ug/Kg	32	9/10/2002	MP	SW846 8082
PCB-1221	Below det lim	ug/Kg	32	9/10/2002	MP	SW846 8082
PCB-1232	Below det lim	ug/Kg	32	9/10/2002	MP	SW846 8082
PCB-1242	Below det lim	ug/Kg	32	9/10/2002	MP	SW846 8082
PCB-1248	Below det lim	ug/Kg	32	9/10/2002	MP	SW846 8082
PCB-1254	Below det lim	ug/Kg	32	9/10/2002	MP	SW846 8082
PCB-1260	Below det lim	ug/Kg	32	9/10/2002	MP	SW846 8082
Decachlorobiphenyl (%SR)	119	ug/Kg	0.00	9/10/2002	MP	SW846 8082
Metals Preparation						
Mercury Digestion	Completed			9/6/2002	KL	EPA 245.1
Mercury Digestion on Leachate	Completed			9/6/2002	LK	EPA 245.1
Metals Digestion	Completed			9/6/2002	KL	EPA 200.7

Lab ID No: AD37892
Client Id: B-14 (0-2)

Collection Date: 9/3/2002
Matrix Soil

Parameter	Results	Units	PQL	Start Date		Analyst	Method
Metals Digestion on Leachate	Completed			9/6/2002		LK	EPA 200.7
Metals Analysis							
SPLP RCRA8 Metals							
SPLP Arsenic	Below det lim	mg/L	0.015	9/9/2002		CRE	1312/200.7
SPLP Barium	Below det lim	mg/L	0.036	9/9/2002		CRE	1312/200.7
SPLP Cadmium	Below det lim	mg/L	0.0025	9/9/2002		CRE	1312/200.7
SPLP Chromium	Below det lim	mg/L	0.005	9/9/2002		CRE	1312/200.7
SPLP Lead	Below det lim	mg/L	0.0075	9/9/2002		CRE	1312/200.7
SPLP Selenium	Below det lim	mg/L	0.015	9/9/2002		CRE	1312/200.7
SPLP Silver	Below det lim	mg/L	0.010	9/9/2002		CRE	1312/200.7
SPLP Mercury	Below det lim	mg/L	0.0004	9/9/2002		LFR	1312/245.1
Total RCRA8 Metals							
Total Arsenic	Below det lim	mg/Kg	3.11	9/9/2002		CRE	EPA 200.7
Total Barium	28.6	mg/Kg	1.04	9/9/2002		CRE	EPA 200.7
Total Cadmium	Below det lim	mg/Kg	0.518	9/9/2002		CRE	EPA 200.7
Total Chromium	11.5	mg/Kg	1.04	9/9/2002		CRE	EPA 200.7
Total Lead	16.5	mg/Kg	1.56	9/9/2002		CRE	EPA 200.7
Total Selenium	Below det lim	mg/Kg	3.11	9/9/2002		CRE	EPA 200.7
Total Silver	Below det lim	mg/Kg	2.07	9/9/2002		CRE	EPA 200.7
Total Mercury	Below det lim	mg/Kg	0.200	9/10/2002		LFR	EPA 245.1
General Chemistry							
Flash Point	>200	degree F	200	9/5/2002	11:00	JC	SW846 1010
Ignitability of Solids	Negative	pos/neg		9/5/2002	11:00	JC	SW846 1030
pH	6.55@20.1	pH Units		9/5/2002	11:00	JC	SW846 9045
TCLP/SPLP Preparation							
SPLP Extraction for Metals	Completed			9/6/2002		KP	SW846 1312
General Chemistry							
Reactivity - Cyanide/Sulfide							
Reactivity	Negative	mg/Kg		9/6/2002		AW	SW846 7.3
Reactivity Cyanide	Below det lim	mg/Kg	0.26	9/6/2002		AW	SW846 7.3
Reactivity Sulfide	Below det lim	mg/Kg	26	9/6/2002		AW	SW846 7.3
% Solids	88.9	%		9/5/2002		BH	SM2540 B Mod

Lab ID No: AD37892
Client Id: B-14 (0-2)

Collection Date: 9/3/2002
Matrix Soil

Parameter	Results	Units	PQL	Start Date	Analyst	Method

Reviewed by:

Quality Service/Quality Assurance Depts.

Validated by:

President/Laboratory Director

9/11/2002

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

Laboratory Report Supplement

Interpretation of Total Petroleum Hydrocarbon Report

Petroleum identification is determined by comparing the GC fingerprint obtained from the sample with a library of GC fingerprints obtained from analyses of various petroleum products. Possible match categories are as follows:

Gasoline – includes regular, unleaded, premium, etc.
Fuel Oil #2 – includes home heating oil, #2 fuel oil, and diesel
Fuel Oil #4 – includes #4 fuel oil
Fuel Oil #6 – includes #6 fuel oil and bunker "C" oil
Motor Oil – includes virgin and waste automobile oil
Ligroin -- includes mineral spirits, petroleum naphtha, vm&p naphtha
Aviation Fuel – includes kerosene, Jet A and JP-4
Other Oil – includes lubricating and cutting oil, and silicon oil

Factors such as microbial degradation, weathering and solubility generally prevent specific identification within a petroleum category. A finding of "unidentified" means that the sample fingerprint was characteristic of a petroleum product, but could not be matched to a fingerprint in our library.

After identification, the amount present in the sample is quantified using a calibration curve prepared from a petroleum product of the same category as the identified petroleum. Unidentified petroleum is quantified using a petroleum calibration that approximates the distribution of compounds in the sample. A * in the results column indicates the primary petroleum fingerprint calibration used to quantify unidentified samples. A ** in the results column indicates the secondary petroleum fingerprint calibration used to quantify unidentified samples. A *** in the results column indicates the tertiary petroleum fingerprint calibration used to quantify unidentified samples.

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

Laboratory Report Supplement
References

SW 846	Test Methods for Evaluating Solid Waste. Third edition, 1998
40 CFR 136	Guidelines Establishing Test Procedures for the Analysis of Pollutants Under the Clean Water Act
40 CFR 141	National Primary Drinking Water Regulations
40 CFR 143	National Secondary Drinking Water Regulations
40 CFR 160	Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), Good Laboratory Practice Standards
APHA-AWWA-WPCF	Standard Methods for the Examination of Water and Wastewater. 19th edition, 1995
ASTM D 3328	Standard Methods for the Comparison of Waterborne Petroleum Oils by Gas Chromatography
EPA 540/G-87/003	Data Quality Objectives for Remediation Response Activities, Development Process
EPA 600/4-79-012	Quality Assurance Handbook for Analytical Quality Control in Water and Wastewater Laboratories
EPA 600/4-79-019	Handbook for Analytical Quality Control in Water and Wastewater Laboratories
EPA 600/4-79-020	Method for the Chemical Analysis of Water and Wastes
EPA 600/4-82-057	Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater
EPA 600/4-85/056	Choosing Cost-Effective QA/QC Programs for Chemical Analysis
EPA 600/4-88/039	Method for the Determination of Organic Compounds in Drinking Water
CT ETPH	Analysis of Extractable Total Petroleum Hydrocarbons (ETPH)
MADEP EPH	Method for the Determination of Extractable Petroleum Hydrocarbons (EPH)
MADEP VPH	Method for the Determination of Volatile Petroleum Hydrocarbons (VPH)
QAMS 004/80	Guidelines and Specifications for Preparing Quality Assurance Program Plans, USEPA Office of Monitoring System and Quality Assurance
GC-D-52-77	Oil Spill Identification System

Acronyms & Abbreviations

AA	Atomic Absorption
ASTM	American Society for Testing and Materials
BOD	Biological Oxygen Demand
°C	degree(s) Celsius
COD	Chemical Oxygen Demand
CMR	Code of Massachusetts Regulations
DEP	Department of Environmental Protection
DI	De-ionized
DO	Dissolved Oxygen
EPA	Environmental Protection Agency
EPH	Extractable Petroleum Hydrocarbons
FID	Flame Ionization Detector
GC	Gas Chromatograph
GC / MS	Gas Chromatograph / Mass Spectrometer
ICP	Inductively Coupled Plasma
Id	Identification
MCL	Maximum Contaminant Level
MDL	Minimum Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
NTU	Nephelometric Turbidity Units
PAHs	Polynuclear Aromatic Hydrocarbons
PCBs	Polychlorinated Biphenyls
PID	Photo Ionization Detector
PQL	Practical Quantitation Limit
R	Recovery (%R: Percent Recovery)
RSD	Relative Standard Deviation
SM	Standard Method
SR	Surrogate Recovery (%SR)
SW	Solid Waste
THM	Trihalomethane(s)
TOC	Total Organic Carbon
TOX	Total Organic Halogen
TPH	Total Petroleum Hydrocarbons
VOC	Volatile Organic Compound
VPH	Volatile Petroleum Hydrocarbons

Definitions

Equipment Blank:	A sample of analyte-free media, which has been used to rinse the sampling equipment. It is collected after completion of decontamination and prior to sampling. This blank is useful in documenting adequate decontamination of sampling equipment.
Field Duplicate:	Independent samples, which are collected as close as possible to the same point in space and time. They are two separate samples taken from the same source, stored in separate containers, and analyzed independently. These duplicates are useful in documenting the precision of the sampling process.
Laboratory Control Sample (LCS):	A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.
Matrix Duplicate:	An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.
Matrix Spike:	An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.
Matrix Spike Duplicates:	Intra-laboratory split of samples spiked with identical concentrations of target analyte(s). The spiking occurs prior to sample preparation and analysis. They are used to document the precision and bias of a method in a given sample matrix.
Method Blank:	An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.
Method Detection Limit (MDL):	The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.
Practical Quantitation Limit (PQL):	The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. The PQL is generally 5 to 10 times the MDL. However, it may be nominally chosen within these guidelines to simplify data reporting. For many analytes the PQL analyte concentration is selected as the lowest non-zero standard in the calibration curve. Sample PQLs are highly matrix-dependent.
Precision:	The agreement among a set of replicate measurements without assumption of knowledge of the true value. Precision is estimated by means of duplicate/replicate analyses. These samples should contain concentrations of analyte above the MDL, and may involve the use of matrix spikes. The Relative Percent Difference (%RPD) is used to estimate the precision between two samples.
Surrogate:	An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.
Trip Blank:	A sample of analyte-free media taken from the laboratory to the sampling site and returned to the laboratory unopened. A trip blank is used to document contamination attributable to shipping and field handling procedures. This type of blank is useful in documenting contamination of volatile organic samples.

09041455 (mb) 30

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Special Handling: 5 day Con DOT

☐ Standard TAT - 7 to 10 business days
☐ Rush TAT - Date Needed: _____
- All TATs subject to laboratory approval.
- Min. 24-hour notification needed for rushes.
- All samples are disposed of after 60 days unless otherwise instructed.

Page 1 of 1

Report To: David Williams
100 Shield Street
West Hartford CT 06110

Project Mgr.: David Williams

Invoice To: Michelle Malone

22090127

P.O. No.: _____ RQN: _____

Project No.: A210 016 00
Site Name: West River Bridge
Location: New Haven State: CT
Sampler(s): David Williams

1=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid
7=CH_3OH 8= $NaHSO_4$ 9= none 10= methanol

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW= Surface Water SO=Soil SL=Sludge A=Air
X1=_____ X2=_____ X3=_____

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Preservative	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	VOC's - 8260 - 5035	CT ETPH	SPLP Extraction RCRA 8 metals	PAH's - 8270	reactivity (cyanide plus reactive sulfide)	ignitability (flash pt)	Corrosivity (pH)	Mass - 8 RCRA metals	PCBs - 8082	Notes:
AC 37890	B-12(0-2')	9/3/02		C	SO	10/4	1		1		X	X	X	X	X	X	X	X	X	
AC 37891	B-13(0-2')	↓		C	SO	10/4	1		1		X	X	X	X	X	X	X	X	X	
AC 37892	B-14(0-2')	↓		C	SO	10/4	1		1		X	X	X	X	X	X	X	X	X	
AC																				
AC																				
AC																				
AC																				
AC																				
AC																				
AC																				

☐ Fax results when available to (860) 953-7407
☐ E-mail results when available to _____
Condition upon Receipt: ☐ Iced ☐ Ambient ☐ 10 °C
Rep

Relinquished by:	Received by:	Date:	Time:
[signature]	CEE Fridge	9/4/02	7:15 am
[signature]	[signature]	9/4/02	1015
[signature]	[signature]	9/4/02	1415