



MAG 910276

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November 15, 2006
File No. 2564.00

US Environmental Protection Agency
RGP-NOC Processing
Municipal Assistance Unit (CMU)
1 Congress Street, Suite 1100
Boston, MA 02114-2023

Re: Remediation General Permit (RGP) Notice of Intent (NOI)
Former LeSaffre Automobile Dealership
887, 897 & 905-911 Main Street
Melrose, MA
RTNs 3-26347 and 3-26348

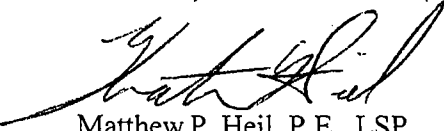
Dear Sir or Madam:

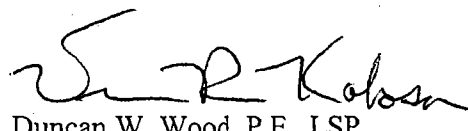
On behalf of Hodges Melrose LLC, Sanborn, Head & Associates, Inc. (SHA) is submitting this Notice of Intent (NOI) for a NPDES Remediation General Permit (RGP) for the site referenced above in Melrose, Massachusetts. The RGP is required for the anticipated, intermittent discharge of treated groundwater generated during construction dewatering associated with site redevelopment activities (e.g., footing and utility installations and limited soil removals) being conducted under the Massachusetts Contingency Plan (MCP), 310 CMR 40.0000.

The contaminant information is based on due diligence sampling activities (15 groundwater samples) completed in 2005 prior to the publication of the final NPDES RGP parameter list. A groundwater sample from which to obtain data for the remaining RGP parameters, not included herein, is being collected and analyzed concurrent to this NOI submittal. The additional data will be submitted as soon as it is available; however, based on site use history those additional parameters are considered unlikely to represent a significant change to the proposed treatment system.

Please call the undersigned should you have any questions or require additional information regarding this NOI.

Very truly yours,
SANBORN, HEAD & ASSOCIATES, INC.


Matthew P. Heil, P.E., LSP
Associate


for Duncan W. Wood, P.E., LSP
Principal

MPH/DWW

Encl. Notice of Intent (NOI)
Groundwater Laboratory Analytical Data Reports
Locus Plan

cc: Robert Korff, Hodges Melrose LLC
Frank Quigley, FD Quigley & Associates

S:\WESDATA\2500\2564.00\Originals\111506 NDPES RGP NOI cvrltr.doc

B. Suggested Form for Notice of Intent (NOI) for the Remediation General Permit

1. General site information. Please provide the following information about the site:

a) Name of facility/site: 887, 897, and 905-911 Main Street, Melrose, Massachusetts		Facility/site address: 887, 897, and 905-911 Main Street, Melrose, Massachusetts	
Location of facility/site: Longitude: 71 03 40 latitude: 42 27 55	Facility SIC code(s): Main Street		
b) Name of facility/site owner: Hodges Melrose LLC			
Email address of owner: rkorff@markinv.com	State: MA	Zip: 02176	County: Middlesex
Telephone no. of facility/site owner: (617) 332-8140	Owner is (check one): 1. Federal _____ 2. State/Tribal _____ 3. Private ☒ 4. other, if so, describe: _____		
Fax no. of facility/site owner: (617) 332-4014			
Address of owner (if different from site): Street: 54 Jaconnet Street			
Town: Newton	State: MA	Zip: 02461	County: Middlesex
c) Legal name of operator: Hodges Melrose LLC		Operator telephone no.: (617) 332-8140	
		Operator fax no.: (617) 332-4014	Operator email: rkorff@markinv.com
Operator contact name and title: Robert Korff, Manager of Amadan Management, LLC, the Manager of Hodges Melrose LLC			

Address of operator (if different from owner):		Street:	
Town:	State:	Zip:	County:

d) Check "yes" or "no" for the following:

- Has a prior NPDES permit exclusion been granted for the discharge? Yes No ☒, if "yes," number: _____
- Has a prior NPDES application (Form 1 & 2C) ever been filed for the discharge? Yes No ☒, if "yes," date and tracking #: _____
- Is the discharge a "new discharge" as defined by 40 CFR 122.2? Yes ☒ No _____
- For sites in Massachusetts, is the discharge covered under the MA Contingency Plan (MCP) and exempt from state permitting? Yes ☒ No _____

e) Is site/facility subject to any State permitting or other action which is causing the generation of discharge? Yes ☒ No _____

If "yes," please list:

- site identification # assigned by the state of NH or MA: RTNs 3-26347;3-26348
- permit or license # assigned: _____
- state agency contact information: name, location, and telephone number: MADEP, Wilmington, MA, _____

f) Is the site/facility covered by any other EPA permit, including:

- multi-sector storm water general permit? Y N ☒, if Y, number: _____
- phase I or II construction storm water general permit? Y N ☒, if Y, number: _____
- individual NPDES permit? Y N ☒, if Y, number: _____
- any other water quality related permit? Y N ☒, if Y, number: _____

2. Discharge information. Please provide information about the discharge, (attaching additional sheets as needed) including:

a) Describe the discharge activities for which the owner/applicant is seeking coverage: Excavation dewatering associated with Site redevelopment activities including but not limited to footing and utility installations and limited soil removal.	
b) Provide the following information about each discharge:	1) Number of discharge points: 1 2) What is the maximum and average flow rate of discharge (in cubic feet per second, ft³/s)? Max. flow 0.22 Average flow 0.07 Is maximum flow a design value? Y <u>N</u> ☒ For average flow, include the units and appropriate notation if this value is a design value or estimate if not available. estimated 3) Latitude and longitude of each discharge within 100 feet: pt. 1: long. 71 03 40 lat. 42 27 55 pt. 4: long. lat. ; pt. 5: long. lat. ; pt. 6: long. lat. ; pt. 7: long. lat. ; pt. 8: long. lat. ; etc.

4) If hydrostatic testing, total volume of the discharge (gals):	5) Is the discharge intermittent ☒ or seasonal ☐ ? Is discharge ongoing Yes ☐ No ☒ ?	
c) Expected dates of discharge (mm/dd/yy): start 11/27/06	end 01/01/08	
d) Please attach a line drawing or flow schematic showing water flow through the facility including: 1. sources of intake water, 2. contributing flow from the operation, 3. treatment units, and 4. discharge points and receiving waters(s).		

3. Contaminant information. In order to complete this section, the applicant will need to take a minimum of one sample of the untreated water and have it analyzed for all of the parameters listed in Appendix III. Historical data, (i.e., data taken no more than 2 years prior to the effective date of the permit) may be used if obtained pursuant to: i. Massachusetts' regulations 310 CMR 40.0000, the Massachusetts Contingency Plan ("Chapter 21E"); ii. New Hampshire's Title 50 RSA 485-A: Water Pollution and Waste Disposal or Title 50 RSA 485-C: Groundwater Protection Act; or iii. an EPA permit exclusion letter issued pursuant to 40 CFR 122.3, provided the data was analyzed with test methods that meet the requirements of this permit. Otherwise, a new sample shall be taken and analyzed.

a) Based on the analysis of the sample(s) of the untreated influent, the applicant must check the box of the sub-categories that the potential discharge falls within.

Gasoline Only	VOC Only	Primarily Metals	Urban Fill Sites	Contaminated Sumps	Mixed Contaminants	Aquifer Testing
Fuel Oils (and Other Oils) only	VOC with Other Contaminants ☒	Petroleum with Other Contaminants	Listed Contaminated Sites	Contaminated Dredge Condensates	Hydrostatic Testing of Pipelines/Tanks	Well Development or Rehabilitation

b) Based on the analysis of the untreated influent, the applicant must indicate whether each listed chemical is **believed present** or **believed absent** in the potential discharge. Attach additional sheets as needed.

PARAMETER	Believe Absent	Believe Present	# of Samples (1 minimum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Avg. daily value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
1. Total Suspended Solids		☒								
2. Total Residual Chlorine	☒									
3. Total Petroleum Hydrocarbons		☒	15	grab	MCP VPH&EPH	50	5,260			
4. Cyanide	☒									
5. Benzene		☒	15	grab	VPH	2	90			
6. Toluene	☒		15	grab	VPH	2	ND			
7. Ethylbenzene		☒	15	grab	VPH	2	5			
8. (m,p,o) Xylenes		☒	15	grab	VPH	2	15			
9. Total BTX ⁴		☒	15	grab	VPH	2	110			

⁴BTX = Sum of Benzene, Toluene, Ethylbenzene, total Xylenes.

PARAMETER	Believe Absent	Believe Present	# of Samples (1 minimum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Avg. daily value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
10. Ethylene Dibromide (1,2- Dibromo-methane)										
11. Methyl-tert-Butyl Ether (MtBE)		✓	15	grab	VPH	3	28			
12. tert-Butyl Alcohol (TBA)										
13. tert-Amyl Methyl Ether (TAME)										
14. Naphthalene	✓		15	grab	VPH & EPH	10	ND			
15. Carbon Tetra-chloride	✓		15	grab	8260B	0.5	ND			
16. 1,4 Dichlorobenzene	✓		15	grab	8260B	2.5	ND			
17. 1,2 Dichlorobenzene	✓		15	grab	8260B	2.5	ND			
18. 1,3 Dichlorobenzene	✓		15	grab	8260B	2.5	ND			
19. 1,1 Dichloroethane	✓		15	grab	8260B	0.75	ND			
20. 1,2 Dichloroethane	✓		15	grab	8260B	0.5	ND			
21. 1,1 Dichloroethylene	✓		15	grab	8260B	0.5	ND			
22. cis-1,2 Dichloro-ethylene		✓	15	grab	8260B	0.5	11,000			
23. Dichloromethane (Methylene Chloride)	✓		15	grab	8260B	5	ND			
24. Tetrachloroethylene		✓	15	grab	8260B	0.5	3,700			

PARAMETER	Believe Absent	Believe Present	# of Samples (1 minimum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Avg. daily Value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
25. 1,1,1 Trichloroethane	✓		15	grab	8260B	0.5	ND			
26. 1,1,2 Trichloroethane	✓		15	grab	8260B	0.75	ND			
27. Trichloroethylene		✓	15	grab	8260B	0.5	3,800			
28. Vinyl Chloride		✓	15	grab	8260B	1	100			
29. Acetone										
30. 1,4 Dioxane										
31. Total Phenols										
32. Pentachlorophenol										
33. Total Phthalates ⁵ (Phthalate esters)										
34. Bis (2-Ethylhexyl) Phthalate [Di-(ethylhexyl) Phthalate]										
35. Total Group I Polycyclic Aromatic Hydrocarbons (PAH)										
a. Benzo(a) Anthracene	✓		15	grab	EPH	10	ND			
b. Benzo(a) Pyrene	✓		15	grab	EPH	10	ND			
c. Benzo(b) Fluoranthene	✓		15	grab	EPH	10	ND			
d. Benzo(k) Fluoranthene	✓		15	grab	EPH	10	ND			
e. Chrysene	✓		15	grab	EPH	10	ND			

⁵The sum of individual phthalate compounds.

PARAMETER	Believe Absent	Believe Present	# of Samples (1 minimum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Average daily value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
f. Dibenzo(a,h)anthracene	✓		15	grab	EPH	10	ND			
g. Indeno(1,2,3-cd)Pyrene	✓		15	grab	EPH	10	ND			
36. Total Group II Polycyclic Aromatic Hydrocarbons (PAH)										
h. Acenaphthene	✓		15	grab	EPH	10	ND			
i. Acenaphthylene	✓		15	grab	EPH	10	ND			
j. Anthracene	✓		15	grab	EPH	10	ND			
k. Benzo(ghi) Perylene	✓		15	grab	EPH	10	ND			
l. Fluoranthene	✓		15	grab	EPH	10	ND			
m. Fluorene	✓		15	grab	EPH	10	ND			
n. Naphthalene-	✓		15	grab	VPH & EPH	10	ND			
o. Phenanthrene	✓		15	grab	EPH	10	ND			
p. Pyrene	✓		15	grab	EPH	10	ND			
37. Total Polychlorinated Biphenyls (PCBs)										
38. Antimony										
39. Arsenic										
40. Cadmium										
41. Chromium III										
42. Chromium VI										

PARAMETER	Believe Absent	Believe Present	# of Samples (1 minimum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Avg. daily value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
43. Copper										
44. Lead										
45. Mercury										
46. Nickel										
47. Selenium										
48. Silver										
49. Zinc										
50. Iron		✓								
Other (describe):										

c) For discharges where metals are believed present, please fill out the following:

Step 1: Do any of the metals in the influent have a reasonable potential to exceed the effluent limits in Appendix III (i.e., the limits set at zero to five dilutions)? Y <u> </u> N <u> </u> ✓	If yes, which metals?
Step 2: For any metals which have reasonable potential to exceed the Appendix III limits, calculate the dilution factor (DF) using the formula in Part I.A.3.c) (step 2) of the NOI instructions or as determined by the State prior to the submission of this NOI. What is the dilution factor for applicable metals? Metals: _____ DF: _____	Look up the limit calculated at the corresponding dilution factor in Appendix IV. Do any of the metals in the influent have the potential to exceed the corresponding effluent limits in Appendix IV (i.e., is the influent concentration above the limit set at the calculated dilution factor)? Y <u> </u> N <u> </u> If "Yes," list which metals:

4. Treatment system information. Please describe the treatment system using separate sheets as necessary, including:

a) A description of the treatment system, including a schematic of the proposed or existing treatment system:

Treatment systems to include an approximate 20,000 gallon frac. tank to allow solids to settle followed by a sedimentation bag filtering unit equipped with 15 micron filter bags and two granular activated carbon units, in series.

b) Identify each applicable treatment unit (check all that apply):	Frac. tank ✓	Air stripper	Oil/water separator	Equalization tanks	Bag filter ✓	GAC filter ✓
	Chlorination	Dechlorination	Other (please describe):			

c) Proposed average and maximum flow rates (gallons per minute) for the discharge and the design flow rate(s) (gallons per minute) of the treatment system:

Average flow rate of discharge 30 Maximum flow rate of treatment system 100 Design flow rate of treatment system 75

d) A description of chemical additives being used or planned to be used (attach MSDS sheets):

none

5. Receiving surface water(s). Please provide information about the receiving water(s), using separate sheets as necessary:

a) Identify the discharge pathway:	Direct	Within facility	Storm drain ✓	River/brook	Wetlands	Other (describe):
------------------------------------	--------	-----------------	------------------	-------------	----------	-------------------

b) Provide a narrative description of the discharge pathway, including the name(s) of the receiving waters:

Treated groundwater will be discharged to the municipal stormwater drainage system on the property. Flows in this system reach Ell Pond located approximately 1,200 feet to the southwest of the site.

c) Attach a detailed map(s) indicating the site location and location of the outfall to the receiving water: 1. For multiple discharges, number the discharges sequentially. 2. For indirect discharges, indicate the location of the discharge to the indirect conveyance and the discharge to surface water. The map should also include the location and distance to the nearest sanitary sewer as well as the locus of nearby sensitive receptors (based on USGS topographical mapping), such as surface waters, drinking water supplies, and wetland areas.	
d) Provide the state water quality classification of the receiving water	B
e) Provide the reported or calculated seven day-ten year low flow (7Q10) of the receiving water	N/A cfs
Please attach any calculation sheets used to support stream flow and dilution calculations.	
f) Is the receiving water a listed 303(d) water quality impaired or limited water? Yes ☒ No ☐ If yes, for which pollutant(s)? nutrients, pathogens, suspended solids	
Is there a TMDL? Yes ☐ No ☒ If yes, for which pollutant(s)? phosphorus TMDL being developed	
6. Results of Consultation with Federal Services: Please provide the following information according to requirements of Part I.B.4 and Appendices II and VII.	
a) Are any listed threatened or endangered species, or designated critical habitat, in proximity to the discharge? Yes ☐ No ☒ Has any consultation with the federal services been completed? No ☒ or is consultation underway? No ☒ What were the results of the consultation with the U.S. Fish and Wildlife Service and/or National Marine Fisheries Service (check one): a "no jeopardy" opinion? ☐ or written concurrence ☐ on a finding that the discharges are not likely to adversely affect any endangered species or critical habitat?	
b) Are any historic properties listed or eligible for listing on the National Register of Historic Places located on the facility or site or in proximity to the discharge? Yes ☐ No ☒ Have any state or tribal historic preservation officer been consulted in this determination (Massachusetts only)? Yes ☐ No ☒	

7. Supplemental information. :

Please provide any supplemental information. Attach any analytical data used to support the application. Attach any certification(s) required by the general permit.
Copies of analytical laboratory reports for groundwater samples collected at the site are attached.

8. Signature Requirements: The Notice of Intent must be signed by the operator in accordance with the signatory requirements of 40 CFR Section 122.22, including the following certification:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, I certify that the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I certify that I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

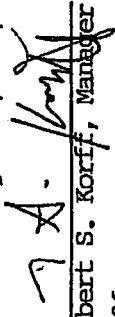
Facility/Site Name: 887, 897, and 905-911 Main Street, Melrose, Massachusetts

Operator signature: Hodges Melrose, LLC

By: Amadan Management, LLC, its Manager

Title:

By:


Robert S. Korff, Manager

Date: November 14, 2006

ALPHA ANALYTICAL LABORATORIES

Eight Walkup Drive
Westborough, Massachusetts 01581-1019
(508) 898-9220 www.alphalab.com

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

CERTIFICATE OF ANALYSIS

Client: Sanborn, Head & Associates, Inc. Laboratory Job Number: L0508065
Address: 1 Technology Park Drive
Westford, MA 01886 Date Received: 20-JUL-2005
Attn: Mr. Matt Heil Date Reported: 27-JUL-2005
Project Number: 2564.00 Delivery Method: Alpha
Site: KORFF-MELROSE

The following questions pertain only to MCP Analytical Methods

An affirmative response to questions A,B,C & D is required for "Presumptive Certainty" status

- A. Were all samples received by the laboratory in a condition consistent with those described on their Chain-of-Custody documentation for the data set? YES
- B. Were all QA/QC procedures required for the specified analytical method(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines? YES
- C. Does the analytical data included in this report meet all the requirements for "Presumptive Certainty", as described in section 2.0 of the MADEP document CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"? YES
- D. VPH and EPH methods only: Was the VPH or EPH method run without significant modifications, as specified in Section 11.3? YES

A response to questions E and F is required for "Presumptive Certainty" status

- E. Were all QC performance standards and recommendations for the specified method(s) achieved? NO
- F. Were results for all analyte-list compounds/elements for the specified method(s) reported? NO

Any answers of NO to the above questions are addressed in the case narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized by: Douglas Sheeley

This document electronically signed

ALPHA ANALYTICAL LABORATORIES

Laboratory Job Number: L0508065

Date Reported: 27-JUL-2005

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0508065-01	SH-1A	887-911 MAIN ST, MELROSE
L0508065-02	SH-2	887-911 MAIN ST, MELROSE
L0508065-03	SH-3	887-911 MAIN ST, MELROSE
L0508065-04	SH-4	887-911 MAIN ST, MELROSE
L0508065-05	SH-5	887-911 MAIN ST, MELROSE
L0508065-06	SH-7S	887-911 MAIN ST, MELROSE
L0508065-07	SH-7D	887-911 MAIN ST, MELROSE
L0508065-08	MW-9	887-911 MAIN ST, MELROSE
L0508065-09	MW-10	887-911 MAIN ST, MELROSE

ALPHA ANALYTICAL LABORATORIES
NARRATIVE REPORT

Laboratory Job Number: L0508065

Report Submission

In reference to question F, the samples were analyzed only for the compounds specified on the chain of custody.

Extraction methods

Extraction method 3510C was used for the analysis of EPH by Method 04-1.

Volatile Organics

The following have elevated limits of detection due to the dilutions required by the elevated concentrations of target compounds in the samples:

L0508065-02, -07 (5X)

L0508065-03 (100X)

L0508065-04 (25X)

L0508065-05 (50X)

In reference to question E:

The WG208631-4,5 LCS,LCSD have low % recoveries for 1,4-dioxane, a known difficult analyte.

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0508065-01

SH-1A

Sample Matrix:

WATER

Date Collected: 19-JUL-2005 11:30

Date Received : 20-JUL-2005

Date Reported : 27-JUL-2005

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Amber,4-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B				60 8260B	0726 20:50 BT		
Methylene chloride	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	0.75				
Chloroform	ND	ug/l	0.75				
Carbon tetrachloride	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	1.8				
Dibromochloromethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.75				
Tetrachloroethene	1.0	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
Bromodichloromethane	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
Bromoform	ND	ug/l	2.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Chloromethane	ND	ug/l	2.5				
Vinyl chloride	ND	ug/l	1.0				
Chloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.75				
Trichloroethene	ND	ug/l	0.50				
1,2-Dichlorobenzene	ND	ug/l	2.5				
1,3-Dichlorobenzene	ND	ug/l	2.5				
1,4-Dichlorobenzene	ND	ug/l	2.5				
cis-1,2-Dichloroethene	1.1	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
1,2-Dibromoethane	ND	ug/l	2.0				
1,3-Dichloropropane	ND	ug/l	2.5				
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50				
o-Chlorotoluene	ND	ug/l	2.5				
p-Chlorotoluene	ND	ug/l	2.5				
Hexachlorobutadiene	ND	ug/l	1.0				
1,2,4-Trichlorobenzene	ND	ug/l	2.5				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0508065-01
SH-1A

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B cont'd				60 8260B		0726 20:50 BT	
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	107.	%		70-130			
Toluene-d8	101.	%		70-130			
4-Bromofluorobenzene	102.	%		70-130			
Dibromofluoromethane	103.	%		70-130			

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0508065-01
SH-1A

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	

Volatile Petroleum Hydrocarbons

59 VPH-04-1.1

0725 13:49 MM

Quality Control Information

Condition of sample received:	Satisfactory	
Aqueous preservative:	Laboratory Provided Preserved Container	
Sample temperature upon receipt:	Received on Ice	
Were all QA/QC procedures REQUIRED by the method followed?		YES
Were all performance/acceptance standards for the required procedures achieved?		YES
Were significant modifications made to the method as specified in Sect 11.3?		NO
The normal acceptance range for the surrogate, 2,5-Dibromotoluene, is 70-130%.		

C5-C8 Aliphatics	ND	ug/l	50.0
C9-C12 Aliphatics	ND	ug/l	50.0
C9-C10 Aromatics	ND	ug/l	50.0
C5-C8 Aliphatics, Adjusted	ND	ug/l	50.0
C9-C12 Aliphatics, Adjusted	ND	ug/l	50.0
Benzene	ND	ug/l	2.00
Toluene	ND	ug/l	2.00
Ethylbenzene	ND	ug/l	2.00
p/m-Xylene	ND	ug/l	2.00
o-Xylene	ND	ug/l	2.00
Methyl tert butyl ether	ND	ug/l	3.00
Naphthalene	ND	ug/l	10.0
Surrogate(s)	Recovery		QC Criteria
2,5-Dibromotoluene-PID	119.	%	70-130
2,5-Dibromotoluene-FID	108.	%	70-130

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0508065-01
SH-1A

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
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Extractable Petroleum Hydrocarbons	61 EPH-04-1	0721 14:30	0726 07:19 BN
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Quality Control Information

Condition of sample received:	Satisfactory	
Aqueous preservative:	Laboratory Provided Preserved Container	
Sample temperature upon receipt:	Received on Ice	
Sample extraction method:	Extracted Per the Method	
Were all QA/QC procedures REQUIRED by the method followed?		YES
Were all performance/acceptance standards for the required procedures achieved?		YES
Were significant modifications made to the method as specified in Sect 11.3?		NO
The normal acceptance range for the extraction surrogates, Chloro-octadecane and o-Terphenyl, is 40-140%.		
The normal acceptance range for the fractionation surrogates, 2-Fluorobiphenyl and 2-Bromonaphthalene, is 40-140%.		

C9-C18 Aliphatics	ND	ug/l	101.
C19-C36 Aliphatics	ND	ug/l	101.
C11-C22 Aromatics	ND	ug/l	101.
C11-C22 Aromatics, Adjusted	ND	ug/l	101.
Naphthalene	ND	ug/l	10.1
2-Methylnaphthalene	ND	ug/l	10.1
Acenaphthylene	ND	ug/l	10.1
Acenaphthene	ND	ug/l	10.1
Fluorene	ND	ug/l	10.1
Phenanthrene	ND	ug/l	10.1
Anthracene	ND	ug/l	10.1
Fluoranthene	ND	ug/l	10.1
Pyrene	ND	ug/l	10.1
Benzo(a)anthracene	ND	ug/l	10.1
Chrysene	ND	ug/l	10.1
Benzo(b)fluoranthene	ND	ug/l	10.1
Benzo(k)fluoranthene	ND	ug/l	10.1
Benzo(a)pyrene	ND	ug/l	10.1
Indeno(1,2,3-cd)Pyrene	ND	ug/l	10.1
Dibenzo(a,h)anthracene	ND	ug/l	10.1
Benzo(ghi)perylene	ND	ug/l	10.1

Surrogate(s)	Recovery	QC Criteria
Chloro-Octadecane	45.0 %	40-140
o-Terphenyl	79.0 %	40-140
2-Fluorobiphenyl	83.0 %	40-140
2-Bromonaphthalene	82.0 %	40-140

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0508065-02

SH-2

Sample Matrix:

WATER

Date Collected: 19-JUL-2005 11:25

Date Received : 20-JUL-2005

Date Reported : 27-JUL-2005

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Amber,3-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B				60 8260B		0726 23:19 BT	
Methylene chloride	ND	ug/l	25.				
1,1-Dichloroethane	ND	ug/l	3.8				
Chloroform	ND	ug/l	3.8				
Carbon tetrachloride	ND	ug/l	2.5				
1,2-Dichloropropane	ND	ug/l	8.8				
Dibromochloromethane	ND	ug/l	2.5				
1,1,2-Trichloroethane	ND	ug/l	3.8				
Tetrachloroethene	12.	ug/l	2.5				
Chlorobenzene	ND	ug/l	2.5				
1,2-Dichloroethane	ND	ug/l	2.5				
1,1,1-Trichloroethane	ND	ug/l	2.5				
Bromodichloromethane	ND	ug/l	2.5				
trans-1,3-Dichloropropene	ND	ug/l	2.5				
cis-1,3-Dichloropropene	ND	ug/l	2.5				
Bromoform	ND	ug/l	10.				
1,1,2,2-Tetrachloroethane	ND	ug/l	2.5				
Chloromethane	ND	ug/l	12.				
Vinyl chloride	ND	ug/l	5.0				
Chloroethane	ND	ug/l	5.0				
1,1-Dichloroethene	ND	ug/l	2.5				
trans-1,2-Dichloroethene	ND	ug/l	3.8				
Trichloroethene	9.3	ug/l	2.5				
1,2-Dichlorobenzene	ND	ug/l	12.				
1,3-Dichlorobenzene	ND	ug/l	12.				
1,4-Dichlorobenzene	ND	ug/l	12.				
cis-1,2-Dichloroethene	180	ug/l	2.5				
Dichlorodifluoromethane	ND	ug/l	25.				
1,2-Dibromoethane	ND	ug/l	10.				
1,3-Dichloropropane	ND	ug/l	12.				
1,1,1,2-Tetrachloroethane	ND	ug/l	2.5				
o-Chlorotoluene	ND	ug/l	12.				
p-Chlorotoluene	ND	ug/l	12.				
Hexachlorobutadiene	ND	ug/l	5.0				
1,2,4-Trichlorobenzene	ND	ug/l	12.				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0508065-02
SH-2

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B cont'd				60 8260B	0726 23:19		BT
Surrogate(s)	Recovery		QC Criteria				
1,2-Dichloroethane-d4	104.	%	70-130				
Toluene-d8	102.	%	70-130				
4-Bromofluorobenzene	107.	%	70-130				
Dibromofluoromethane	101.	%	70-130				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0508065-02
 SH-2

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	

Volatile Petroleum Hydrocarbons				59 VPH-04-1.1		0725 14:40 MM	
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Quality Control Information

Condition of sample received:	Satisfactory
Aqueous preservative:	Laboratory Provided Preserved Container
Sample temperature upon receipt:	Received on Ice
Were all QA/QC procedures REQUIRED by the method followed?	YES
Were all performance/acceptance standards for the required procedures achieved?	YES
Were significant modifications made to the method as specified in Sect 11.3?	NO
The normal acceptance range for the surrogate, 2,5-Dibromotoluene, is 70-130%.	

C5-C8 Aliphatics	71.7	ug/l	50.0
C9-C12 Aliphatics	ND	ug/l	50.0
C9-C10 Aromatics	ND	ug/l	50.0
C5-C8 Aliphatics, Adjusted	71.7	ug/l	50.0
C9-C12 Aliphatics, Adjusted	ND	ug/l	50.0
Benzene	ND	ug/l	2.00
Toluene	ND	ug/l	2.00
Ethylbenzene	ND	ug/l	2.00
p/m-Xylene	ND	ug/l	2.00
o-Xylene	ND	ug/l	2.00
Methyl tert butyl ether	ND	ug/l	3.00
Naphthalene	ND	ug/l	10.0
Surrogate(s)	Recovery		QC Criteria
2,5-Dibromotoluene-PID	102.	%	70-130
2,5-Dibromotoluene-FID	94.0	%	70-130

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0508065-02
SH-2

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	

Extractable Petroleum Hydrocarbons				61 EPH-04-1	0721 14:30	0726 07:52	BN
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Quality Control Information

Condition of sample received:	Satisfactory	
Aqueous preservative:	Laboratory Provided Preserved Container	
Sample temperature upon receipt:	Received on Ice	
Sample extraction method:	Extracted Per the Method	
Were all QA/QC procedures REQUIRED by the method followed?		YES
Were all performance/acceptance standards for the required procedures achieved?		YES
Were significant modifications made to the method as specified in Sect 11.3?		NO
The normal acceptance range for the extraction surrogates, Chloro-octadecane and o-Terphenyl, is 40-140%.		
The normal acceptance range for the fractionation surrogates, 2-Fluorobiphenyl and 2-Bromonaphthalene, is 40-140%.		

C9-C18 Aliphatics	ND	ug/l	100.
C19-C36 Aliphatics	ND	ug/l	100.
C11-C22 Aromatics	ND	ug/l	100.
C11-C22 Aromatics, Adjusted	ND	ug/l	100.
Naphthalene	ND	ug/l	10.0
2-Methylnaphthalene	ND	ug/l	10.0
Acenaphthylene	ND	ug/l	10.0
Acenaphthene	ND	ug/l	10.0
Fluorene	ND	ug/l	10.0
Phenanthrene	ND	ug/l	10.0
Anthracene	ND	ug/l	10.0
Fluoranthene	ND	ug/l	10.0
Pyrene	ND	ug/l	10.0
Benzo(a)anthracene	ND	ug/l	10.0
Chrysene	ND	ug/l	10.0
Benzo(b)fluoranthene	ND	ug/l	10.0
Benzo(k)fluoranthene	ND	ug/l	10.0
Benzo(a)pyrene	ND	ug/l	10.0
Indeno(1,2,3-cd)Pyrene	ND	ug/l	10.0
Dibenzo(a,h)anthracene	ND	ug/l	10.0
Benzo(ghi)perylene	ND	ug/l	10.0
Surrogate(s)	Recovery		QC Criteria
Chloro-Octadecane	63.0	%	40-140
o-Terphenyl	87.0	%	40-140
2-Fluorobiphenyl	89.0	%	40-140
2-Bromonaphthalene	88.0	%	40-140

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0508065-03

SH-3

Sample Matrix:

WATER

Date Collected: 19-JUL-2005 10:55

Date Received : 20-JUL-2005

Date Reported : 27-JUL-2005

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Amber,3-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B				60 8260B		0727 00:34 BT	
Methylene chloride	ND	ug/l	500				
1,1-Dichloroethane	ND	ug/l	75.				
Chloroform	ND	ug/l	75.				
Carbon tetrachloride	ND	ug/l	50.				
1,2-Dichloropropane	ND	ug/l	180				
Dibromochloromethane	ND	ug/l	50.				
1,1,2-Trichloroethane	ND	ug/l	75.				
Tetrachloroethene	ND	ug/l	50.				
Chlorobenzene	ND	ug/l	50.				
1,2-Dichloroethane	ND	ug/l	50.				
1,1,1-Trichloroethane	ND	ug/l	50.				
Bromodichloromethane	ND	ug/l	50.				
trans-1,3-Dichloropropene	ND	ug/l	50.				
cis-1,3-Dichloropropene	ND	ug/l	50.				
Bromoform	ND	ug/l	200				
1,1,2,2-Tetrachloroethane	ND	ug/l	50.				
Chloromethane	ND	ug/l	250				
Vinyl chloride	ND	ug/l	100				
Chloroethane	ND	ug/l	100				
1,1-Dichloroethene	ND	ug/l	50.				
trans-1,2-Dichloroethene	ND	ug/l	75.				
Trichloroethene	100	ug/l	50.				
1,2-Dichlorobenzene	ND	ug/l	250				
1,3-Dichlorobenzene	ND	ug/l	250				
1,4-Dichlorobenzene	ND	ug/l	250				
cis-1,2-Dichloroethene	3100	ug/l	50.				
Dichlorodifluoromethane	ND	ug/l	500				
1,2-Dibromoethane	ND	ug/l	200				
1,3-Dichloropropane	ND	ug/l	250				
1,1,1,2-Tetrachloroethane	ND	ug/l	50.				
o-Chlorotoluene	ND	ug/l	250				
p-Chlorotoluene	ND	ug/l	250				
Hexachlorobutadiene	ND	ug/l	100				
1,2,4-Trichlorobenzene	ND	ug/l	250				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0508065-03
 SH-3

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B cont'd				60 8260B	0727 00:34		BT
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	107.	%		70-130			
Toluene-d8	100.	%		70-130			
4-Bromofluorobenzene	115.	%		70-130			
Dibromofluoromethane	99.0	%		70-130			

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0508065-03
SH-3

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	

Volatile Petroleum Hydrocarbons

59 VPH-04-1.1

0725 15:31 MM

Quality Control Information

Condition of sample received:	Satisfactory	
Aqueous preservative:	Laboratory Provided Preserved Container	
Sample temperature upon receipt:	Received on Ice	
Were all QA/QC procedures REQUIRED by the method followed?		YES
Were all performance/acceptance standards for the required procedures achieved?		YES
Were significant modifications made to the method as specified in Sect 11.3?		NO
The normal acceptance range for the surrogate, 2,5-Dibromotoluene, is 70-130%.		

C5-C8 Aliphatics	1200	ug/l	50.0
C9-C12 Aliphatics	ND	ug/l	50.0
C9-C10 Aromatics	ND	ug/l	50.0
C5-C8 Aliphatics, Adjusted	1200	ug/l	50.0
C9-C12 Aliphatics, Adjusted	ND	ug/l	50.0
Benzene	ND	ug/l	2.00
Toluene	ND	ug/l	2.00
Ethylbenzene	ND	ug/l	2.00
p/m-Xylene	ND	ug/l	2.00
o-Xylene	ND	ug/l	2.00
Methyl tert butyl ether	ND	ug/l	3.00
Naphthalene	ND	ug/l	10.0

Surrogate(s)	Recovery		QC Criteria
2,5-Dibromotoluene-PID	108.	%	70-130
2,5-Dibromotoluene-FID	97.0	%	70-130

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0508065-03
SH-3

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	

Extractable Petroleum Hydrocarbons				61 EPH-04-1	0721 14:30	0726 08:25	BN
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Quality Control Information

Condition of sample received:	Satisfactory
Aqueous preservative:	Laboratory Provided Preserved Container
Sample temperature upon receipt:	Received on Ice
Sample extraction method:	Extracted Per the Method
Were all QA/QC procedures REQUIRED by the method followed?	YES
Were all performance/acceptance standards for the required procedures achieved?	YES
Were significant modifications made to the method as specified in Sect 11.3?	NO
The normal acceptance range for the extraction surrogates, Chloro-octadecane and o-Terphenyl, is 40-140%.	
The normal acceptance range for the fractionation surrogates, 2-Fluorobiphenyl and 2-Bromonaphthalene, is 40-140%.	

C9-C18 Aliphatics	ND	ug/l	100.
C19-C36 Aliphatics	ND	ug/l	100.
C11-C22 Aromatics	ND	ug/l	100.
C11-C22 Aromatics, Adjusted	ND	ug/l	100.
Naphthalene	ND	ug/l	10.0
2-Methylnaphthalene	ND	ug/l	10.0
Acenaphthylene	ND	ug/l	10.0
Acenaphthene	ND	ug/l	10.0
Fluorene	ND	ug/l	10.0
Phenanthrene	ND	ug/l	10.0
Anthracene	ND	ug/l	10.0
Fluoranthene	ND	ug/l	10.0
Pyrene	ND	ug/l	10.0
Benzo(a)anthracene	ND	ug/l	10.0
Chrysene	ND	ug/l	10.0
Benzo(b)fluoranthene	ND	ug/l	10.0
Benzo(k)fluoranthene	ND	ug/l	10.0
Benzo(a)pyrene	ND	ug/l	10.0
Indeno(1,2,3-cd)Pyrene	ND	ug/l	10.0
Dibenzo(a,h)anthracene	ND	ug/l	10.0
Benzo(ghi)perylene	ND	ug/l	10.0

Surrogate(s)	Recovery		QC Criteria
Chloro-Octadecane	64.0	%	40-140
o-Terphenyl	85.0	%	40-140
2-Fluorobiphenyl	88.0	%	40-140
2-Bromonaphthalene	86.0	%	40-140

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0508065-04

Date Collected: 19-JUL-2005 10:20

SH-4

Date Received : 20-JUL-2005

Sample Matrix: WATER

Date Reported : 27-JUL-2005

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Amber,4-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B				60 8260B	0727 01:11 BT		
Methylene chloride	ND	ug/l	120				
1,1-Dichloroethane	ND	ug/l	19.				
Chloroform	ND	ug/l	19.				
Carbon tetrachloride	ND	ug/l	12.				
1,2-Dichloropropane	ND	ug/l	44.				
Dibromochloromethane	ND	ug/l	12.				
1,1,2-Trichloroethane	ND	ug/l	19.				
Tetrachloroethene	ND	ug/l	12.				
Chlorobenzene	ND	ug/l	12.				
1,2-Dichloroethane	ND	ug/l	12.				
1,1,1-Trichloroethane	ND	ug/l	12.				
Bromodichloromethane	ND	ug/l	12.				
trans-1,3-Dichloropropene	ND	ug/l	12.				
cis-1,3-Dichloropropene	ND	ug/l	12.				
Bromoform	ND	ug/l	50.				
1,1,2,2-Tetrachloroethane	ND	ug/l	12.				
Chloromethane	ND	ug/l	62.				
Vinyl chloride	32.	ug/l	25.				
Chloroethane	ND	ug/l	25.				
1,1-Dichloroethene	ND	ug/l	12.				
trans-1,2-Dichloroethene	ND	ug/l	19.				
Trichloroethene	ND	ug/l	12.				
1,2-Dichlorobenzene	ND	ug/l	62.				
1,3-Dichlorobenzene	ND	ug/l	62.				
1,4-Dichlorobenzene	ND	ug/l	62.				
cis-1,2-Dichloroethene	880	ug/l	12.				
Dichlorodifluoromethane	ND	ug/l	120				
1,2-Dibromoethane	ND	ug/l	50.				
1,3-Dichloropropane	ND	ug/l	62.				
1,1,1,2-Tetrachloroethane	ND	ug/l	12.				
o-Chlorotoluene	ND	ug/l	62.				
p-Chlorotoluene	ND	ug/l	62.				
Hexachlorobutadiene	ND	ug/l	25.				
1,2,4-Trichlorobenzene	ND	ug/l	62.				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0508065-04
 SH-4

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B cont'd				60 8260B	0727 01:11		BT
Surrogate(s)	Recovery		QC Criteria				
1,2-Dichloroethane-d4	106.	%	70-130				
Toluene-d8	105.	%	70-130				
4-Bromofluorobenzene	103.	%	70-130				
Dibromofluoromethane	100.	%	70-130				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0508065-04
SH-4

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	

Volatile Petroleum Hydrocarbons				59 VPH-04-1.1		0725 16:21 MM	
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Quality Control Information

Condition of sample received:	Satisfactory
Aqueous preservative:	Laboratory Provided Preserved Container
Sample temperature upon receipt:	Received on Ice
Were all QA/QC procedures REQUIRED by the method followed?	YES
Were all performance/acceptance standards for the required procedures achieved?	YES
Were significant modifications made to the method as specified in Sect 11.3?	NO
The normal acceptance range for the surrogate, 2,5-Dibromotoluene, is 70-130%.	

C5-C8 Aliphatics	526.	ug/l	50.0
C9-C12 Aliphatics	140.	ug/l	50.0
C9-C10 Aromatics	86.9	ug/l	50.0
C5-C8 Aliphatics, Adjusted	408.	ug/l	50.0
C9-C12 Aliphatics, Adjusted	ND	ug/l	50.0
Benzene	90.4	ug/l	2.00
Toluene	ND	ug/l	2.00
Ethylbenzene	5.44	ug/l	2.00
p/m-Xylene	14.9	ug/l	2.00
o-Xylene	ND	ug/l	2.00
Methyl tert butyl ether	28.0	ug/l	3.00
Naphthalene	ND	ug/l	10.0

Surrogate(s)	Recovery	QC Criteria
2,5-Dibromotoluene-PID	117. %	70-130
2,5-Dibromotoluene-FID	109. %	70-130

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0508065-04
SH-4

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	

Extractable Petroleum Hydrocarbons

61 EPH-04-1

0721 14:30 0726 08:58 BN

Quality Control Information

Condition of sample received:	Satisfactory	
Aqueous preservative:	Laboratory Provided Preserved Container	
Sample temperature upon receipt:	Received on Ice	
Sample extraction method:	Extracted Per the Method	
Were all QA/QC procedures REQUIRED by the method followed?		YES
Were all performance/acceptance standards for the required procedures achieved?		YES
Were significant modifications made to the method as specified in Sect 11.3?		NO
The normal acceptance range for the extraction surrogates, Chloro-octadecane and o-Terphenyl, is 40-140%.		
The normal acceptance range for the fractionation surrogates, 2-Fluorobiphenyl and 2-Bromonaphthalene, is 40-140%.		

C9-C18 Aliphatics	ND	ug/l	100.
C19-C36 Aliphatics	ND	ug/l	100.
C11-C22 Aromatics	ND	ug/l	100.
C11-C22 Aromatics, Adjusted	ND	ug/l	100.
Naphthalene	ND	ug/l	10.0
2-Methylnaphthalene	ND	ug/l	10.0
Acenaphthylene	ND	ug/l	10.0
Acenaphthene	ND	ug/l	10.0
Fluorene	ND	ug/l	10.0
Phenanthrene	ND	ug/l	10.0
Anthracene	ND	ug/l	10.0
Fluoranthene	ND	ug/l	10.0
Pyrene	ND	ug/l	10.0
Benzo(a)anthracene	ND	ug/l	10.0
Chrysene	ND	ug/l	10.0
Benzo(b)fluoranthene	ND	ug/l	10.0
Benzo(k)fluoranthene	ND	ug/l	10.0
Benzo(a)pyrene	ND	ug/l	10.0
Indeno(1,2,3-cd)Pyrene	ND	ug/l	10.0
Dibenzo(a,h)anthracene	ND	ug/l	10.0
Benzo(ghi)perylene	ND	ug/l	10.0

Surrogate(s)	Recovery		QC Criteria
Chloro-Octadecane	65.0	%	40-140
o-Terphenyl	81.0	%	40-140
2-Fluorobiphenyl	86.0	%	40-140
2-Bromonaphthalene	84.0	%	40-140

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0508065-05

Date Collected: 19-JUL-2005 10:15

SH-5

Date Received : 20-JUL-2005

Sample Matrix: WATER

Date Reported : 27-JUL-2005

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Amber,4-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B				60 8260B		0727 10:39 BT	
Methylene chloride	ND	ug/l	250				
1,1-Dichloroethane	ND	ug/l	38.				
Chloroform	ND	ug/l	38.				
Carbon tetrachloride	ND	ug/l	25.				
1,2-Dichloropropane	ND	ug/l	88.				
Dibromochloromethane	ND	ug/l	25.				
1,1,2-Trichloroethane	ND	ug/l	38.				
Tetrachloroethene	53.	ug/l	25.				
Chlorobenzene	ND	ug/l	25.				
1,2-Dichloroethane	ND	ug/l	25.				
1,1,1-Trichloroethane	ND	ug/l	25.				
Bromodichloromethane	ND	ug/l	25.				
trans-1,3-Dichloropropene	ND	ug/l	25.				
cis-1,3-Dichloropropene	ND	ug/l	25.				
Bromoform	ND	ug/l	100				
1,1,2,2-Tetrachloroethane	ND	ug/l	25.				
Chloromethane	ND	ug/l	120				
Vinyl chloride	100	ug/l	50.				
Chloroethane	ND	ug/l	50.				
1,1-Dichloroethene	ND	ug/l	25.				
trans-1,2-Dichloroethene	ND	ug/l	38.				
Trichloroethene	100	ug/l	25.				
1,2-Dichlorobenzene	ND	ug/l	120				
1,3-Dichlorobenzene	ND	ug/l	120				
1,4-Dichlorobenzene	ND	ug/l	120				
cis-1,2-Dichloroethene	2300	ug/l	25.				
Dichlorodifluoromethane	ND	ug/l	250				
1,2-Dibromoethane	ND	ug/l	100				
1,3-Dichloropropane	ND	ug/l	120				
1,1,1,2-Tetrachloroethane	ND	ug/l	25.				
o-Chlorotoluene	ND	ug/l	120				
p-Chlorotoluene	ND	ug/l	120				
Hexachlorobutadiene	ND	ug/l	50.				
1,2,4-Trichlorobenzene	ND	ug/l	120				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0508065-05
 SH-5

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B cont'd				60 8260B		0727 10:39 BT	
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	104.	%		70-130			
Toluene-d8	106.	%		70-130			
4-Bromofluorobenzene	114.	%		70-130			
Dibromofluoromethane	100.	%		70-130			

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0508065-05
 SH-5

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	

Volatile Petroleum Hydrocarbons				59 VPH-04-1.1		0725 17:12 MM	
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Quality Control Information

Condition of sample received:	Satisfactory
Aqueous preservative:	Laboratory Provided Preserved Container
Sample temperature upon receipt:	Received on Ice
Were all QA/QC procedures REQUIRED by the method followed?	YES
Were all performance/acceptance standards for the required procedures achieved?	YES
Were significant modifications made to the method as specified in Sect 11.3?	NO
The normal acceptance range for the surrogate, 2,5-Dibromotoluene, is 70-130%.	

C5-C8 Aliphatics	879.	ug/l	50.0
C9-C12 Aliphatics	ND.	ug/l	50.0
C9-C10 Aromatics	ND	ug/l	50.0
C5-C8 Aliphatics, Adjusted	876.	ug/l	50.0
C9-C12 Aliphatics, Adjusted	ND	ug/l	50.0
Benzene	ND	ug/l	2.00
Toluene	ND	ug/l	2.00
Ethylbenzene	ND	ug/l	2.00
p/m-Xylene	ND	ug/l	2.00
o-Xylene	ND	ug/l	2.00
Methyl tert butyl ether	3.63	ug/l	3.00
Naphthalene	ND	ug/l	10.0
Surrogate(s)	Recovery		QC Criteria
2,5-Dibromotoluene-PID	106.	%	70-130
2,5-Dibromotoluene-FID	98.0	%	70-130

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0508065-05
SH-5

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	

Extractable Petroleum Hydrocarbons

61 EPH-04-1 0721 14:30 0726 09:31 BN

Quality Control Information

Condition of sample received:	Satisfactory	
Aqueous preservative:	Laboratory Provided Preserved Container	
Sample temperature upon receipt:	Received on Ice	
Sample extraction method:	Extracted Per the Method	
Were all QA/QC procedures REQUIRED by the method followed?		YES
Were all performance/acceptance standards for the required procedures achieved?		YES
Were significant modifications made to the method as specified in Sect 11.3?		NO
The normal acceptance range for the extraction surrogates, Chloro-octadecane and o-Terphenyl, is 40-140%.		
The normal acceptance range for the fractionation surrogates, 2-Fluorobiphenyl and 2-Bromonaphthalene, is 40-140%.		

C9-C18 Aliphatics	ND	ug/l	100.
C19-C36 Aliphatics	ND	ug/l	100.
C11-C22 Aromatics	ND	ug/l	100.
C11-C22 Aromatics, Adjusted	ND	ug/l	100.
Naphthalene	ND	ug/l	10.0
2-Methylnaphthalene	ND	ug/l	10.0
Acenaphthylene	ND	ug/l	10.0
Acenaphthene	ND	ug/l	10.0
Fluorene	ND	ug/l	10.0
Phenanthrene	ND	ug/l	10.0
Anthracene	ND	ug/l	10.0
Fluoranthene	ND	ug/l	10.0
Pyrene	ND	ug/l	10.0
Benzo(a)anthracene	ND	ug/l	10.0
Chrysene	ND	ug/l	10.0
Benzo(b)fluoranthene	ND	ug/l	10.0
Benzo(k)fluoranthene	ND	ug/l	10.0
Benzo(a)pyrene	ND	ug/l	10.0
Indeno(1,2,3-cd)Pyrene	ND	ug/l	10.0
Dibenzo(a,h)anthracene	ND	ug/l	10.0
Benzo(ghi)perylene	ND	ug/l	10.0

Surrogate(s)	Recovery		QC Criteria
Chloro-Octadecane	56.0	%	40-140
o-Terphenyl	93.0	%	40-140
2-Fluorobiphenyl	96.0	%	40-140
2-Bromonaphthalene	95.0	%	40-140

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0508065-06	Date Collected: 19-JUL-2005 09:00
SH-7S	Date Received : 20-JUL-2005
Sample Matrix: WATER	Date Reported : 27-JUL-2005
Condition of Sample: Satisfactory	Field Prep: None
Number & Type of Containers: 2-Amber, 4-Vial	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B				60 8260B		0726 21:28 BT	
Methylene chloride	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	0.75				
Chloroform	ND	ug/l	0.75				
Carbon tetrachloride	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	1.8				
Dibromochloromethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.75				
Tetrachloroethene	ND	ug/l	0.50				
Chlorobenzene	1.5	ug/l	0.50				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
Bromodichloromethane	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
Bromoform	ND	ug/l	2.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Chloromethane	ND	ug/l	2.5				
Vinyl chloride	ND	ug/l	1.0				
Chloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.75				
Trichloroethene	ND	ug/l	0.50				
1,2-Dichlorobenzene	ND	ug/l	2.5				
1,3-Dichlorobenzene	ND	ug/l	2.5				
1,4-Dichlorobenzene	ND	ug/l	2.5				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
1,2-Dibromoethane	ND	ug/l	2.0				
1,3-Dichloropropane	ND	ug/l	2.5				
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50				
o-Chlorotoluene	ND	ug/l	2.5				
p-Chlorotoluene	ND	ug/l	2.5				
Hexachlorobutadiene	ND	ug/l	1.0				
1,2,4-Trichlorobenzene	ND	ug/l	2.5				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0508065-06
SH-7S

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B cont'd				60 8260B			0726 21:28 BT
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	103.	%		70-130			
Toluene-d8	104.	%		70-130			
4-Bromofluorobenzene	102.	%		70-130			
Dibromofluoromethane	98.0	%		70-130			

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0508065-06
SH-7S

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	

Volatile Petroleum Hydrocarbons				59 VPH-04-1.1		0726 12:38 MM	
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Quality Control Information

Condition of sample received:	Satisfactory	
Aqueous preservative:	Laboratory Provided Preserved Container	
Sample temperature upon receipt:	Received on Ice	
Were all QA/QC procedures REQUIRED by the method followed?		YES
Were all performance/acceptance standards for the required procedures achieved?		YES
Were significant modifications made to the method as specified in Sect 11.3?		NO
The normal acceptance range for the surrogate, 2,5-Dibromotoluene, is 70-130%.		

C5-C8 Aliphatics	ND	ug/l	50.0
C9-C12 Aliphatics	159.	ug/l	50.0
C9-C10 Aromatics	75.9	ug/l	50.0
C5-C8 Aliphatics, Adjusted	ND	ug/l	50.0
C9-C12 Aliphatics, Adjusted	81.0	ug/l	50.0
Benzene	ND	ug/l	2.00
Toluene	ND	ug/l	2.00
Ethylbenzene	2.33	ug/l	2.00
p/m-Xylene	ND	ug/l	2.00
o-Xylene	ND	ug/l	2.00
Methyl tert butyl ether	9.58	ug/l	3.00
Naphthalene	ND	ug/l	10.0

Surrogate(s)	Recovery		QC Criteria
2,5-Dibromotoluene-PID	116.	%	70-130
2,5-Dibromotoluene-FID	106.	%	70-130

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0508065-06
SH-7S

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
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Extractable Petroleum Hydrocarbons	61 EPH-04-1	0721 14:30 0726 09:11 BN	
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Quality Control Information

Condition of sample received:	Satisfactory
Aqueous preservative:	Laboratory Provided Preserved Container
Sample temperature upon receipt:	Received on Ice
Sample extraction method:	Extracted Per the Method
Were all QA/QC procedures REQUIRED by the method followed?	YES
Were all performance/acceptance standards for the required procedures achieved?	YES
Were significant modifications made to the method as specified in Sect 11.3?	NO
The normal acceptance range for the extraction surrogates, Chloro-octadecane and o-Terphenyl, is 40-140%.	
The normal acceptance range for the fractionation surrogates, 2-Fluorobiphenyl and 2-Bromonaphthalene, is 40-140%.	

C9-C18 Aliphatics	ND	ug/l	100.
C19-C36 Aliphatics	181.	ug/l	100.
C11-C22 Aromatics	206.	ug/l	100.
C11-C22 Aromatics, Adjusted	206.	ug/l	100.
Naphthalene	ND	ug/l	10.0
2-Methylnaphthalene	ND	ug/l	10.0
Acenaphthylene	ND	ug/l	10.0
Acenaphthene	ND	ug/l	10.0
Fluorene	ND	ug/l	10.0
Phenanthrene	ND	ug/l	10.0
Anthracene	ND	ug/l	10.0
Fluoranthene	ND	ug/l	10.0
Pyrene	ND	ug/l	10.0
Benzo(a)anthracene	ND	ug/l	10.0
Chrysene	ND	ug/l	10.0
Benzo(b)fluoranthene	ND	ug/l	10.0
Benzo(k)fluoranthene	ND	ug/l	10.0
Benzo(a)pyrene	ND	ug/l	10.0
Indeno(1,2,3-cd)Pyrene	ND	ug/l	10.0
Dibenzo(a,h)anthracene	ND	ug/l	10.0
Benzo(ghi)perylene	ND	ug/l	10.0

Surrogate(s)	Recovery	QC Criteria
Chloro-Octadecane	68.0 %	40-140
o-Terphenyl	73.0 %	40-140
2-Fluorobiphenyl	73.0 %	40-140
2-Bromonaphthalene	71.0 %	40-140

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0508065-07

SH-7D

Date Collected: 19-JUL-2005 09:25

Date Received : 20-JUL-2005

Sample Matrix:

WATER

Date Reported : 27-JUL-2005

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Amber,4-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B				60 8260B	0726 23:56 BT		
Methylene chloride	ND	ug/l	25.				
1,1-Dichloroethane	ND	ug/l	3.8				
Chloroform	ND	ug/l	3.8				
Carbon tetrachloride	ND	ug/l	2.5				
1,2-Dichloropropane	ND	ug/l	8.8				
Dibromochloromethane	ND	ug/l	2.5				
1,1,2-Trichloroethane	ND	ug/l	3.8				
Tetrachloroethene	14.	ug/l	2.5				
Chlorobenzene	ND	ug/l	2.5				
1,2-Dichloroethane	ND	ug/l	2.5				
1,1,1-Trichloroethane	ND	ug/l	2.5				
Bromodichloromethane	ND	ug/l	2.5				
trans-1,3-Dichloropropene	ND	ug/l	2.5				
cis-1,3-Dichloropropene	ND	ug/l	2.5				
Bromoform	ND	ug/l	10.				
1,1,2,2-Tetrachloroethane	ND	ug/l	2.5				
Chloromethane	ND	ug/l	12.				
Vinyl chloride	ND	ug/l	5.0				
Chloroethane	ND	ug/l	5.0				
1,1-Dichloroethene	ND	ug/l	2.5				
trans-1,2-Dichloroethene	ND	ug/l	3.8				
Trichloroethene	14.	ug/l	2.5				
1,2-Dichlorobenzene	ND	ug/l	12.				
1,3-Dichlorobenzene	ND	ug/l	12.				
1,4-Dichlorobenzene	ND	ug/l	12.				
cis-1,2-Dichloroethene	240	ug/l	2.5				
Dichlorodifluoromethane	ND	ug/l	25.				
1,2-Dibromoethane	ND	ug/l	10.				
1,3-Dichloropropane	ND	ug/l	12.				
1,1,1,2-Tetrachloroethane	ND	ug/l	2.5				
o-Chlorotoluene	ND	ug/l	12.				
p-Chlorotoluene	ND	ug/l	12.				
Hexachlorobutadiene	ND	ug/l	5.0				
1,2,4-Trichlorobenzene	ND	ug/l	12.				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0508065-07
SH-7D

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B cont'd				60 8260B		0726 23:56 BT	
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	104.	%		70-130			
Toluene-d8	101.	%		70-130			
4-Bromofluorobenzene	112.	%		70-130			
Dibromofluoromethane	101.	%		70-130			

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0508065-07
 SH-7D

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	

Volatile Petroleum Hydrocarbons				59 VPH-04-1.1		0726 14:18 MM	
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Quality Control Information

Condition of sample received:	Satisfactory	
Aqueous preservative:	Laboratory Provided Preserved Container	
Sample temperature upon receipt:	Received on Ice	
Were all QA/QC procedures REQUIRED by the method followed?		YES
Were all performance/acceptance standards for the required procedures achieved?		YES
Were significant modifications made to the method as specified in Sect 11.3?		NO
The normal acceptance range for the surrogate, 2,5-Dibromotoluene, is 70-130%.		

C5-C8 Aliphatics	102.	ug/l	50.0
C9-C12 Aliphatics	ND	ug/l	50.0
C9-C10 Aromatics	ND	ug/l	50.0
C5-C8 Aliphatics, Adjusted	102.	ug/l	50.0
C9-C12 Aliphatics, Adjusted	ND	ug/l	50.0
Benzene	ND	ug/l	2.00
Toluene	ND	ug/l	2.00
Ethylbenzene	ND	ug/l	2.00
p/m-Xylene	ND	ug/l	2.00
o-Xylene	ND	ug/l	2.00
Methyl tert butyl ether	ND	ug/l	3.00
Naphthalene	ND	ug/l	10.0
Surrogate(s)	Recovery		QC Criteria
2,5-Dibromotoluene-PID	113.	%	70-130
2,5-Dibromotoluene-FID	103.	%	70-130

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0508065-07
SH-7D

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
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Extractable Petroleum Hydrocarbons	61 EPH-04-1	0721 14:30	0726 09:48	BN
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Quality Control Information

Condition of sample received:	Satisfactory	
Aqueous preservative:	Laboratory Provided Preserved Container	
Sample temperature upon receipt:	Received on Ice	
Sample extraction method:	Extracted Per the Method	
Were all QA/QC procedures REQUIRED by the method followed?		YES
Were all performance/acceptance standards for the required procedures achieved?		YES
Were significant modifications made to the method as specified in Sect 11.3?		NO
The normal acceptance range for the extraction surrogates, Chloro-octadecane and o-Terphenyl, is 40-140%.		
The normal acceptance range for the fractionation surrogates, 2-Fluorobiphenyl and 2-Bromonaphthalene, is 40-140%.		

C9-C18 Aliphatics	ND	ug/l	100.
C19-C36 Aliphatics	ND	ug/l	100.
C11-C22 Aromatics	ND	ug/l	100.
C11-C22 Aromatics, Adjusted	ND	ug/l	100.
Naphthalene	ND	ug/l	10.0
2-Methylnaphthalene	ND	ug/l	10.0
Acenaphthylene	ND	ug/l	10.0
Acenaphthene	ND	ug/l	10.0
Fluorene	ND	ug/l	10.0
Phenanthrene	ND	ug/l	10.0
Anthracene	ND	ug/l	10.0
Fluoranthene	ND	ug/l	10.0
Pyrene	ND	ug/l	10.0
Benzo(a)anthracene	ND	ug/l	10.0
Chrysene	ND	ug/l	10.0
Benzo(b)fluoranthene	ND	ug/l	10.0
Benzo(k)fluoranthene	ND	ug/l	10.0
Benzo(a)pyrene	ND	ug/l	10.0
Indeno(1,2,3-cd)Pyrene	ND	ug/l	10.0
Dibenzo(a,h)anthracene	ND	ug/l	10.0
Benzo(ghi)perylene	ND	ug/l	10.0

Surrogate(s)	Recovery		QC Criteria
Chloro-Octadecane	52.0	%	40-140
o-Terphenyl	62.0	%	40-140
2-Fluorobiphenyl	78.0	%	40-140
2-Bromonaphthalene	79.0	%	40-140

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0508065-08	Date Collected: 19-JUL-2005 12:30
MW-9	Date Received : 20-JUL-2005
Sample Matrix: WATER	Date Reported : 27-JUL-2005
Condition of Sample: Satisfactory	Field Prep: None
Number & Type of Containers: 2-Amber, 4-Vial	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B				60 8260B	0726 22:05 BT		
Methylene chloride	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	0.75				
Chloroform	ND	ug/l	0.75				
Carbon tetrachloride	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	1.8				
Dibromochloromethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.75				
Tetrachloroethene	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
Bromodichloromethane	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
Bromoform	ND	ug/l	2.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Chloromethane	ND	ug/l	2.5				
Vinyl chloride	ND	ug/l	1.0				
Chloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.75				
Trichloroethene	ND	ug/l	0.50				
1,2-Dichlorobenzene	ND	ug/l	2.5				
1,3-Dichlorobenzene	ND	ug/l	2.5				
1,4-Dichlorobenzene	ND	ug/l	2.5				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
1,2-Dibromoethane	ND	ug/l	2.0				
1,3-Dichloropropane	ND	ug/l	2.5				
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50				
o-Chlorotoluene	ND	ug/l	2.5				
p-Chlorotoluene	ND	ug/l	2.5				
Hexachlorobutadiene	ND	ug/l	1.0				
1,2,4-Trichlorobenzene	ND	ug/l	2.5				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0508065-08
 MW-9

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B cont'd				60 8260B		0726 22:05 BT	
Surrogate(s)	Recovery		QC Criteria				
1,2-Dichloroethane-d4	105.	%	70-130				
Toluene-d8	103.	%	70-130				
4-Bromofluorobenzene	106.	%	70-130				
Dibromofluoromethane	101.	%	70-130				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0508065-08
MW-9

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	

Volatile Petroleum Hydrocarbons				59 VPH-04-1.1		0725 19:45 MM	
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Quality Control Information

Condition of sample received:	Satisfactory	
Aqueous preservative:	Laboratory Provided Preserved Container	
Sample temperature upon receipt:	Received on Ice	
Were all QA/QC procedures REQUIRED by the method followed?		YES
Were all performance/acceptance standards for the required procedures achieved?		YES
Were significant modifications made to the method as specified in Sect 11.3?		NO
The normal acceptance range for the surrogate, 2,5-Dibromotoluene, is 70-130%.		

C5-C8 Aliphatics	ND	ug/l	50.0
C9-C12 Aliphatics	ND	ug/l	50.0
C9-C10 Aromatics	ND	ug/l	50.0
C5-C8 Aliphatics, Adjusted	ND	ug/l	50.0
C9-C12 Aliphatics, Adjusted	ND	ug/l	50.0
Benzene	ND	ug/l	2.00
Toluene	ND	ug/l	2.00
Ethylbenzene	ND	ug/l	2.00
p/m-Xylene	ND	ug/l	2.00
o-Xylene	ND	ug/l	2.00
Methyl tert butyl ether	ND	ug/l	3.00
Naphthalene	ND	ug/l	10.0
Surrogate(s)	Recovery		QC Criteria
2,5-Dibromotoluene-PID	101.	%	70-130
2,5-Dibromotoluene-FID	92.0	%	70-130

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0508065-08
MW-9

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
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Extractable Petroleum Hydrocarbons	61 EPH-04-1	0721 14:30	0726 10:24	BN
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Quality Control Information

Condition of sample received:	Satisfactory
Aqueous preservative:	Laboratory Provided Preserved Container.
Sample temperature upon receipt:	Received on Ice
Sample extraction method:	Extracted Per the Method
Were all QA/QC procedures REQUIRED by the method followed?	YES
Were all performance/acceptance standards for the required procedures achieved?	YES
Were significant modifications made to the method as specified in Sect 11.3?	NO
The normal acceptance range for the extraction surrogates, Chloro-octadecane and o-Terphenyl, is 40-140%.	
The normal acceptance range for the fractionation surrogates, 2-Fluorobiphenyl and 2-Bromonaphthalene, is 40-140%.	

C9-C18 Aliphatics	ND	ug/l	100.
C19-C36 Aliphatics	ND	ug/l	100.
C11-C22 Aromatics	ND	ug/l	100.
C11-C22 Aromatics, Adjusted	ND	ug/l	100.
Naphthalene	ND	ug/l	10.0
2-Methylnaphthalene	ND	ug/l	10.0
Acenaphthylene	ND	ug/l	10.0
Acenaphthene	ND	ug/l	10.0
Fluorene	ND	ug/l	10.0
Phenanthrene	ND	ug/l	10.0
Anthracene	ND	ug/l	10.0
Fluoranthene	ND	ug/l	10.0
Pyrene	ND	ug/l	10.0
Benzo(a)anthracene	ND	ug/l	10.0
Chrysene	ND	ug/l	10.0
Benzo(b)fluoranthene	ND	ug/l	10.0
Benzo(k)fluoranthene	ND	ug/l	10.0
Benzo(a)pyrene	ND	ug/l	10.0
Indeno(1,2,3-cd)Pyrene	ND	ug/l	10.0
Dibenzo(a,h)anthracene	ND	ug/l	10.0
Benzo(ghi)perylene	ND	ug/l	10.0

Surrogate(s)	Recovery	QC Criteria
Chloro-Octadecane	75.0 %	40-140
o-Terphenyl	77.0 %	40-140
2-Fluorobiphenyl	85.0 %	40-140
2-Bromonaphthalene	83.0 %	40-140

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0508065-09

MW-10

Date Collected: 19-JUL-2005 12:35

Date Received : 20-JUL-2005

Sample Matrix:

WATER

Date Reported : 27-JUL-2005

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Amber,4-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B				60 8260B	0726 22:42 BT		
Methylene chloride	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	0.75				
Chloroform	ND	ug/l	0.75				
Carbon tetrachloride	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	1.8				
Dibromochloromethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.75				
Tetrachloroethene	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
Bromodichloromethane	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
Bromoform	ND	ug/l	2.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Chloromethane	ND	ug/l	2.5				
Vinyl chloride	ND	ug/l	1.0				
Chloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.75				
Trichloroethene	ND	ug/l	0.50				
1,2-Dichlorobenzene	ND	ug/l	2.5				
1,3-Dichlorobenzene	ND	ug/l	2.5				
1,4-Dichlorobenzene	ND	ug/l	2.5				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
1,2-Dibromoethane	ND	ug/l	2.0				
1,3-Dichloropropane	ND	ug/l	2.5				
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50				
o-Chlorotoluene	ND	ug/l	2.5				
p-Chlorotoluene	ND	ug/l	2.5				
Hexachlorobutadiene	ND	ug/l	1.0				
1,2,4-Trichlorobenzene	ND	ug/l	2.5				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0508065-09
 MW-10

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B cont'd				60 8260B		0726 22:42 BT	
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	105.	%		70-130			
Toluene-d8	101.	%		70-130			
4-Bromofluorobenzene	109.	%		70-130			
Dibromofluoromethane	101.	%		70-130			

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0508065-09
 MW-10

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	

Volatile Petroleum Hydrocarbons				59 VPH-04-1.1		0725 20:36 MM	
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Quality Control Information

Condition of sample received:	Satisfactory	
Aqueous preservative:	Laboratory Provided Preserved Container	
Sample temperature upon receipt:	Received on Ice	
Were all QA/QC procedures REQUIRED by the method followed?		YES
Were all performance/acceptance standards for the required procedures achieved?		YES
Were significant modifications made to the method as specified in Sect 11.3?		NO
The normal acceptance range for the surrogate, 2,5-Dibromotoluene, is 70-130%.		

C5-C8 Aliphatics	ND	ug/l	50.0
C9-C12 Aliphatics	ND	ug/l	50.0
C9-C10 Aromatics	ND	ug/l	50.0
C5-C8 Aliphatics, Adjusted	ND	ug/l	50.0
C9-C12 Aliphatics, Adjusted	ND	ug/l	50.0
Benzene	ND	ug/l	2.00
Toluene	ND	ug/l	2.00
Ethylbenzene	ND	ug/l	2.00
p/m-Xylene	ND	ug/l	2.00
o-Xylene	ND	ug/l	2.00
Methyl tert butyl ether	ND	ug/l	3.00
Naphthalene	ND	ug/l	10.0
Surrogate(s)	Recovery		QC Criteria
2,5-Dibromotoluene-PID	110.	%	70-130
2,5-Dibromotoluene-FID	103.	%	70-130

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0508065-09
MW-10

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
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Extractable Petroleum Hydrocarbons	61 EPH-04-1	0721 14:30	0726 11:01	BN
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Quality Control Information

Condition of sample received:	Satisfactory
Aqueous preservative:	Laboratory Provided Preserved Container
Sample temperature upon receipt:	Received on Ice
Sample extraction method:	Extracted Per the Method
Were all QA/QC procedures REQUIRED by the method followed?	YES
Were all performance/acceptance standards for the required procedures achieved?	YES
Were significant modifications made to the method as specified in Sect 11.3?	NO
The normal acceptance range for the extraction surrogates, Chloro-octadecane and o-Terphenyl, is 40-140%.	
The normal acceptance range for the fractionation surrogates, 2-Fluorobiphenyl and 2-Bromonaphthalene, is 40-140%.	

C9-C18 Aliphatics	205.	ug/l	100.
C19-C36 Aliphatics	2520	ug/l	100.
C11-C22 Aromatics	503.	ug/l	100.
C11-C22 Aromatics, Adjusted	503.	ug/l	100.
Naphthalene	ND	ug/l	10.0
2-Methylnaphthalene	ND	ug/l	10.0
Acenaphthylene	ND	ug/l	10.0
Acenaphthene	ND	ug/l	10.0
Fluorene	ND	ug/l	10.0
Phenanthrene	ND	ug/l	10.0
Anthracene	ND	ug/l	10.0
Fluoranthene	ND	ug/l	10.0
Pyrene	ND	ug/l	10.0
Benzo(a)anthracene	ND	ug/l	10.0
Chrysene	ND	ug/l	10.0
Benzo(b)fluoranthene	ND	ug/l	10.0
Benzo(k)fluoranthene	ND	ug/l	10.0
Benzo(a)pyrene	ND	ug/l	10.0
Indeno(1,2,3-cd)Pyrene	ND	ug/l	10.0
Dibenzo(a,h)anthracene	ND	ug/l	10.0
Benzo(ghi)perylene	ND	ug/l	10.0

Surrogate(s)	Recovery	QC Criteria
Chloro-Octadecane	68.0 %	40-140
o-Terphenyl	70.0 %	40-140
2-Fluorobiphenyl	67.0 %	40-140
2-Bromonaphthalene	67.0 %	40-140

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH LCS/LCSD ANALYSIS

Laboratory Job Number: L0508065

Parameter	LCS %	LCSD %	RPD	RPD Limit	QC Limits
Volatile Organics by MCP 8260B for sample(s) 05 (WG208500-7, WG208500-8)					
Methylene chloride	90	91	1	25	70-130
1,1-Dichloroethane	86	89	3	25	70-130
Chloroform	90	92	2	25	70-130
Carbon tetrachloride	97	100	3	25	70-130
1,2-Dichloropropane	88	92	4	25	70-130
Dibromochloromethane	93	97	4	25	70-130
1,1,2-Trichloroethane	87	96	10	25	70-130
Tetrachloroethene	86	86	0	25	70-130
Chlorobenzene	84	91	8	25	70-130
Trichlorofluoromethane	90	93	3	25	70-130
1,2-Dichloroethane	83	85	2	25	70-130
1,1,1-Trichloroethane	96	100	4	25	70-130
Bromodichloromethane	97	101	4	25	70-130
trans-1,3-Dichloropropene	86	91	6	25	70-130
cis-1,3-Dichloropropene	91	94	3	25	70-130
1,1-Dichloropropene	91	90	1	25	70-130
Bromoform	96	100	4	50	70-130
1,1,2,2-Tetrachloroethane	79	89	12	25	70-130
Benzene	90	92	2	25	70-130
Toluene	85	89	5	25	70-130
Ethylbenzene	89	92	3	25	70-130
Chloromethane	86	91	6	50	70-130
Bromomethane	79	90	13	50	70-130
Vinyl chloride	96	99	3	25	70-130
Chloroethane	97	95	2	25	70-130
1,1-Dichloroethene	86	88	2	25	70-130
trans-1,2-Dichloroethene	85	86	1	25	70-130
Trichloroethene	85	85	0	25	70-130
1,2-Dichlorobenzene	85	90	6	25	70-130
1,3-Dichlorobenzene	85	90	6	25	70-130
1,4-Dichlorobenzene	81	89	9	25	70-130
Methyl tert butyl ether	94	95	1	25	70-130
p/m-Xylene	91	93	2	25	70-130
o-Xylene	89	94	5	25	70-130
cis-1,2-Dichloroethene	89	89	0	25	70-130
Dibromomethane	84	84	0	25	70-130
1,2,3-Trichloropropane	82	84	2	25	70-130
Styrene	88	90	2	25	70-130
Dichlorodifluoromethane	108	112	4	50	70-130
Acetone	79	85	7	50	70-130
Carbon disulfide	85	83	2	25	70-130
2-Butanone	90	103	13	50	70-130
4-Methyl-2-pentanone	105	107	2	50	70-130
2-Hexanone	91	96	5	50	70-130
Bromochloromethane	95	90	5	25	70-130
Tetrahydrofuran	92	89	3	25	70-130
2,2-Dichloropropane	97	103	6	25	70-130
1,2-Dibromoethane	87	89	2	25	70-130

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH LCS/LCSD ANALYSIS

Laboratory Job Number: L0508065

Continued

Parameter	LCS %	LCSD %	RPD	RPD Limit	QC Limits
Volatile Organics by MCP 8260B for sample(s) 05 (WG208500-7, WG208500-8)					
1,3-Dichloropropane	84	90	7	25	70-130
1,1,1,2-Tetrachloroethane	91	94	3	25	70-130
Bromobenzene	85	90	6	25	70-130
n-Butylbenzene	84	90	7	25	70-130
sec-Butylbenzene	88	94	7	25	70-130
tert-Butylbenzene	88	95	8	25	70-130
o-Chlorotoluene	86	92	7	25	70-130
p-Chlorotoluene	84	88	5	25	70-130
1,2-Dibromo-3-chloropropane	101	110	9	50	70-130
Hexachlorobutadiene	82	94	14	25	70-130
Isopropylbenzene	84	88	5	25	70-130
p-Isopropyltoluene	88	93	6	25	70-130
Naphthalene	79	86	8	25	70-130
n-Propylbenzene	88	93	6	25	70-130
1,2,3-Trichlorobenzene	78	86	10	25	70-130
1,2,4-Trichlorobenzene	82	86	5	25	70-130
1,3,5-Trimethylbenzene	89	94	5	25	70-130
1,2,4-Trimethylbenzene	88	94	7	25	70-130
Ethyl ether	77	80	4	25	70-130
Isopropyl Ether	79	83	5	25	70-130
Ethyl-Tert-Butyl-Ether	87	89	2	25	70-130
Tertiary-Amyl Methyl Ether	91	94	3	25	70-130
1,4-Dioxane	80	88	10	50	70-130
Surrogate(s)					
1,2-Dichloroethane-d4	102	102	0		70-130
Toluene-d8	100	103	3		70-130
4-Bromofluorobenzene	100	104	4		70-130
Dibromofluoromethane	102	99	3		70-130
Volatile Organics by MCP 8260B for sample(s) 01-04,06-09 (WG208631-4, WG208631-5)					
Methylene chloride	90	93	3	25	70-130
1,1-Dichloroethane	89	91	2	25	70-130
Chloroform	90	94	4	25	70-130
Carbon tetrachloride	97	102	5	25	70-130
1,2-Dichloropropane	89	88	1	25	70-130
Dibromochloromethane	95	100	5	25	70-130
1,1,2-Trichloroethane	90	91	1	25	70-130
Tetrachloroethene	89	90	1	25	70-130
Chlorobenzene	88	92	4	25	70-130
Trichlorofluoromethane	93	96	3	25	70-130
1,2-Dichloroethane	83	87	5	25	70-130
1,1,1-Trichloroethane	94	100	6	25	70-130
Bromodichloromethane	97	100	3	25	70-130
trans-1,3-Dichloropropene	88	92	4	25	70-130
cis-1,3-Dichloropropene	92	94	2	25	70-130
1,1-Dichloropropene	93	91	2	25	70-130

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH LCS/LCSD ANALYSIS

Laboratory Job Number: L0508065

Continued

Parameter	LCS %	LCSD %	RPD	RPD Limit	QC Limits
Volatile Organics by MCP 8260B for sample(s) 01-04,06-09 (WG208631-4, WG208631-5)					
Bromoform	96	100	4	50	70-130
1,1,2,2-Tetrachloroethane	83	88	6	25	70-130
Benzene	90	93	3	25	70-130
Toluene	90	97	7	25	70-130
Ethylbenzene	90	98	9	25	70-130
Chloromethane	89	87	2	50	70-130
Bromomethane	80	88	10	50	70-130
Vinyl chloride	94	97	3	25	70-130
Chloroethane	96	100	4	25	70-130
1,1-Dichloroethene	90	88	2	25	70-130
trans-1,2-Dichloroethene	88	87	1	25	70-130
Trichloroethene	86	91	6	25	70-130
1,2-Dichlorobenzene	88	92	4	25	70-130
1,3-Dichlorobenzene	90	92	2	25	70-130
1,4-Dichlorobenzene	88	91	3	25	70-130
Methyl tert butyl ether	92	97	5	25	70-130
p/m-Xylene	91	99	8	25	70-130
o-Xylene	92	98	6	25	70-130
cis-1,2-Dichloroethene	90	86	5	25	70-130
Dibromomethane	78	85	9	25	70-130
1,2,3-Trichloropropane	83	86	4	25	70-130
Styrene	91	96	5	25	70-130
Dichlorodifluoromethane	112	115	3	50	70-130
Acetone	86	87	1	50	70-130
Carbon disulfide	88	84	5	25	70-130
2-Butanone	100	96	4	50	70-130
4-Methyl-2-pentanone	100	99	1	50	70-130
2-Hexanone	86	92	7	50	70-130
Bromochloromethane	91	94	3	25	70-130
Tetrahydrofuran	80	87	8	25	70-130
2,2-Dichloropropane	96	102	6	25	70-130
1,2-Dibromoethane	87	92	6	25	70-130
1,3-Dichloropropane	88	94	7	25	70-130
1,1,1,2-Tetrachloroethane	91	98	7	25	70-130
Bromobenzene	89	94	5	25	70-130
n-Butylbenzene	87	91	4	25	70-130
sec-Butylbenzene	91	97	6	25	70-130
tert-Butylbenzene	93	98	5	25	70-130
o-Chlorotoluene	89	91	2	25	70-130
p-Chlorotoluene	88	92	4	25	70-130
1,2-Dibromo-3-chloropropane	102	109	7	50	70-130
Hexachlorobutadiene	97	93	4	25	70-130
Isopropylbenzene	88	93	6	25	70-130
p-Isopropyltoluene	92	95	3	25	70-130
Naphthalene	82	83	1	25	70-130
n-Propylbenzene	93	97	4	25	70-130
1,2,3-Trichlorobenzene	84	86	2	25	70-130

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH LCS/LCSD ANALYSIS

Laboratory Job Number: L0508065

Continued

Parameter	LCS %	LCSD %	RPD	RPD Limit	QC Limits
Volatile Organics by MCP 8260B for sample(s) 01-04,06-09 (WG208631-4, WG208631-5)					
1,2,4-Trichlorobenzene	85	88	3	25	70-130
1,3,5-Trimethylbenzene	92	97	5	25	70-130
1,2,4-Trimethylbenzene	93	96	3	25	70-130
Ethyl ether	82	85	4	25	70-130
Isopropyl Ether	80	82	2	25	70-130
Ethyl-Tert-Butyl-Ether	87	91	4	25	70-130
Tertiary-Amyl Methyl Ether	89	94	5	25	70-130
1,4-Dioxane	67	67	0	50	70-130
Surrogate(s)					
1,2-Dichloroethane-d4	98	97	1		70-130
Toluene-d8	104	106	2		70-130
4-Bromofluorobenzene	105	107	2		70-130
Dibromofluoromethane	94	96	2		70-130
Volatile Petroleum Hydrocarbons for sample(s) 01-09 (WG208056-1, WG208056-2)					
C5-C8 Aliphatics	92	94	3	25	70-130
C9-C12 Aliphatics	92	98	7	25	70-130
C9-C10 Aromatics	91	97	6	25	70-130
Benzene	100	103	3	25	70-130
Toluene	95	100	5	25	70-130
Ethylbenzene	94	100	6	25	70-130
p/m-Xylene	92	98	6	25	70-130
o-Xylene	91	97	6	25	70-130
Methyl tert butyl ether	101	102	1	25	70-130
Naphthalene	100	108	8	25	70-130
Surrogate(s)					
2,5-Dibromotoluene-PID	102	110	8		70-130
2,5-Dibromotoluene-FID	91	105	14		70-130
Extractable Petroleum Hydrocarbons for sample(s) 01-09 (WG208220-2, WG208220-3)					
C9-C18 Aliphatics	52	46	12	25	40-140
C19-C36 Aliphatics	74	66	11	25	40-140
C11-C22 Aromatics	72	65	10	25	40-140
Naphthalene	56	52	7	25	40-140
Acenaphthene	62	58	7	25	40-140
Anthracene	75	65	14	25	40-140
Pyrene	76	65	16	25	40-140
Chrysene	81	70	15	25	40-140
Nonane (C9)	44	37	17	25	30-140
Tetradecane (C14)	63	55	14	25	40-140
Nonadecane (C19)	72	65	10	25	40-140
Eicosane (C20)	74	66	11	25	40-140
Octacosane (C28)	72	62	15	25	40-140

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH LCS/LCSD ANALYSIS

Laboratory Job Number: L0508065

Continued

Parameter	LCS %	LCSD %	RPD	RPD Limit	QC Limits
Extractable Petroleum Hydrocarbons for sample(s) 01-09 (WG208220-2, WG208220-3)					
Surrogate(s)					
Chloro-Octadecane	63	59	7		40-140
o-Terphenyl	82	78	5		40-140
2-Fluorobiphenyl	74	76	3		40-140
2-Bromonaphthalene	73	76	4		40-140

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0508065

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE	ID
					PREP	ANAL
Blank Analysis for sample(s) 05 (WG208500-9)						
Volatile Organics by MCP 8260B				60 8260B		0727 10:02 BT
Methylene chloride	ND	ug/l	5.0			
1,1-Dichloroethane	ND	ug/l	0.75			
Chloroform	ND	ug/l	0.75			
Carbon tetrachloride	ND	ug/l	0.50			
1,2-Dichloropropane	ND	ug/l	1.8			
Dibromochloromethane	ND	ug/l	0.50			
1,1,2-Trichloroethane	ND	ug/l	0.75			
Tetrachloroethene	ND	ug/l	0.50			
Chlorobenzene	ND	ug/l	0.50			
Trichlorofluoromethane	ND	ug/l	2.5			
1,2-Dichloroethane	ND	ug/l	0.50			
1,1,1-Trichloroethane	ND	ug/l	0.50			
Bromodichloromethane	ND	ug/l	0.50			
trans-1,3-Dichloropropene	ND	ug/l	0.50			
cis-1,3-Dichloropropene	ND	ug/l	0.50			
1,1-Dichloropropene	ND	ug/l	2.5			
Bromoform	ND	ug/l	2.0			
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50			
Benzene	ND	ug/l	0.50			
Toluene	ND	ug/l	0.75			
Ethylbenzene	ND	ug/l	0.50			
Chloromethane	ND	ug/l	2.5			
Bromomethane	ND	ug/l	1.0			
Vinyl chloride	ND	ug/l	1.0			
Chloroethane	ND	ug/l	1.0			
1,1-Dichloroethene	ND	ug/l	0.50			
trans-1,2-Dichloroethene	ND	ug/l	0.75			
Trichloroethene	ND	ug/l	0.50			
1,2-Dichlorobenzene	ND	ug/l	2.5			
1,3-Dichlorobenzene	ND	ug/l	2.5			
1,4-Dichlorobenzene	ND	ug/l	2.5			
Methyl tert butyl ether	ND	ug/l	1.0			
p/m-Xylene	ND	ug/l	1.0			
o-Xylene	ND	ug/l	1.0			
cis-1,2-Dichloroethene	ND	ug/l	0.50			
Dibromomethane	ND	ug/l	5.0			
1,2,3-Trichloropropane	ND	ug/l	5.0			
Styrene	ND	ug/l	1.0			
Dichlorodifluoromethane	ND	ug/l	5.0			
Acetone	ND	ug/l	5.0			
Carbon disulfide	ND	ug/l	5.0			
2-Butanone	ND	ug/l	5.0			
4-Methyl-2-pentanone	ND	ug/l	5.0			
2-Hexanone	ND	ug/l	5.0			
Bromochloromethane	ND	ug/l	2.5			
Tetrahydrofuran	ND	ug/l	10.			

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0508065

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE	ID
					PREP	ANAL
Blank Analysis for sample(s) 05 (WG208500-9)						
Volatile Organics by MCP 8260B cont'd				60 8260B		0727 10:02 BT
2,2-Dichloropropane	ND	ug/l	2.5			
1,2-Dibromoethane	ND	ug/l	2.0			
1,3-Dichloropropane	ND	ug/l	2.5			
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50			
Bromobenzene	ND	ug/l	2.5			
n-Butylbenzene	ND	ug/l	0.50			
sec-Butylbenzene	ND	ug/l	0.50			
tert-Butylbenzene	ND	ug/l	2.5			
o-Chlorotoluene	ND	ug/l	2.5			
p-Chlorotoluene	ND	ug/l	2.5			
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5			
Hexachlorobutadiene	ND	ug/l	1.0			
Isopropylbenzene	ND	ug/l	0.50			
p-Isopropyltoluene	ND	ug/l	0.50			
Naphthalene	ND	ug/l	2.5			
n-Propylbenzene	ND	ug/l	0.50			
1,2,3-Trichlorobenzene	ND	ug/l	2.5			
1,2,4-Trichlorobenzene	ND	ug/l	2.5			
1,3,5-Trimethylbenzene	ND	ug/l	2.5			
1,2,4-Trimethylbenzene	ND	ug/l	2.5			
Ethyl ether	ND	ug/l	2.5			
Isopropyl Ether	ND	ug/l	2.0			
Ethyl-Tert-Butyl-Ether	ND	ug/l	2.0			
Tertiary-Amyl Methyl Ether	ND	ug/l	2.0			
1,4-Dioxane	ND	ug/l	250			
Surrogate(s)	Recovery		QC Criteria			
1,2-Dichloroethane-d4	100.	%	70-130			
Toluene-d8	104.	%	70-130			
4-Bromofluorobenzene	109.	%	70-130			
Dibromofluoromethane	100.	%	70-130			
Blank Analysis for sample(s) 01-04,06-09 (WG208631-6)						
Volatile Organics by MCP 8260B				60 8260B		0726 15:56 BT
Methylene chloride	ND	ug/l	5.0			
1,1-Dichloroethane	ND	ug/l	0.75			
Chloroform	ND	ug/l	0.75			
Carbon tetrachloride	ND	ug/l	0.50			
1,2-Dichloropropane	ND	ug/l	1.8			
Dibromochloromethane	ND	ug/l	0.50			
1,1,2-Trichloroethane	ND	ug/l	0.75			
Tetrachloroethene	ND	ug/l	0.50			
Chlorobenzene	ND	ug/l	0.50			
Trichlorofluoromethane	ND	ug/l	2.5			
1,2-Dichloroethane	ND	ug/l	0.50			
1,1,1-Trichloroethane	ND	ug/l	0.50			

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0508065

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE	ID
					PREP	ANAL
Blank Analysis for sample(s) 01-04,06-09 (WG208631-6)						
Volatile Organics by MCP 8260B cont'd				60 8260B		0726 15:56 BT
Bromodichloromethane	ND	ug/l	0.50			
trans-1,3-Dichloropropene	ND	ug/l	0.50			
cis-1,3-Dichloropropene	ND	ug/l	0.50			
1,1-Dichloropropene	ND	ug/l	2.5			
Bromoform	ND	ug/l	2.0			
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50			
Benzene	ND	ug/l	0.50			
Toluene	ND	ug/l	0.75			
Ethylbenzene	ND	ug/l	0.50			
Chloromethane	ND	ug/l	2.5			
Bromomethane	ND	ug/l	1.0			
Vinyl chloride	ND	ug/l	1.0			
Chloroethane	ND	ug/l	1.0			
1,1-Dichloroethene	ND	ug/l	0.50			
trans-1,2-Dichloroethene	ND	ug/l	0.75			
Trichloroethene	ND	ug/l	0.50			
1,2-Dichlorobenzene	ND	ug/l	2.5			
1,3-Dichlorobenzene	ND	ug/l	2.5			
1,4-Dichlorobenzene	ND	ug/l	2.5			
Methyl tert butyl ether	ND	ug/l	1.0			
p/m-Xylene	ND	ug/l	1.0			
o-Xylene	ND	ug/l	1.0			
cis-1,2-Dichloroethene	ND	ug/l	0.50			
Dibromomethane	ND	ug/l	5.0			
1,2,3-Trichloropropane	ND	ug/l	5.0			
Styrene	ND	ug/l	1.0			
Dichlorodifluoromethane	ND	ug/l	5.0			
Acetone	ND	ug/l	5.0			
Carbon disulfide	ND	ug/l	5.0			
2-Butanone	ND	ug/l	5.0			
4-Methyl-2-pentanone	ND	ug/l	5.0			
2-Hexanone	ND	ug/l	5.0			
Bromochloromethane	ND	ug/l	2.5			
Tetrahydrofuran	ND	ug/l	10.			
2,2-Dichloropropane	ND	ug/l	2.5			
1,2-Dibromoethane	ND	ug/l	2.0			
1,3-Dichloropropane	ND	ug/l	2.5			
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50			
Bromobenzene	ND	ug/l	2.5			
n-Butylbenzene	ND	ug/l	0.50			
sec-Butylbenzene	ND	ug/l	0.50			
tert-Butylbenzene	ND	ug/l	2.5			
o-Chlorotoluene	ND	ug/l	2.5			
p-Chlorotoluene	ND	ug/l	2.5			
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5			
Hexachlorobutadiene	ND	ug/l	1.0			

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0508065

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE	ID
					PREP	ANAL
Blank Analysis for sample(s) 01-04,06-09 (WG208631-6)						
Volatile Organics by MCP 8260B cont'd				60 8260B		0726 15:56 BT
Isopropylbenzene	ND	ug/l	0.50			
p-Isopropyltoluene	ND	ug/l	0.50			
Naphthalene	ND	ug/l	2.5			
n-Propylbenzene	ND	ug/l	0.50			
1,2,3-Trichlorobenzene	ND	ug/l	2.5			
1,2,4-Trichlorobenzene	ND	ug/l	2.5			
1,3,5-Trimethylbenzene	ND	ug/l	2.5			
1,2,4-Trimethylbenzene	ND	ug/l	2.5			
Ethyl ether	ND	ug/l	2.5			
Isopropyl Ether	ND	ug/l	2.0			
Ethyl-Tert-Butyl-Ether	ND	ug/l	2.0			
Tertiary-Amyl Methyl Ether	ND	ug/l	2.0			
1,4-Dioxane	ND	ug/l	250			
Surrogate(s)	Recovery		QC Criteria			
1,2-Dichloroethane-d4	101.	%	70-130			
Toluene-d8	104.	%	70-130			
4-Bromofluorobenzene	106.	%	70-130			
Dibromofluoromethane	102.	%	70-130			
Blank Analysis for sample(s) 06-07 (WG208056-5)						
Volatile Petroleum Hydrocarbons				59 VPH-04-1.1		0726 08:32 MM
C5-C8 Aliphatics	ND	ug/l	50.0			
C9-C12 Aliphatics	ND	ug/l	50.0			
C9-C10 Aromatics	ND	ug/l	50.0			
C5-C8 Aliphatics, Adjusted	ND	ug/l	50.0			
C9-C12 Aliphatics, Adjusted	ND	ug/l	50.0			
Benzene	ND	ug/l	2.00			
Toluene	ND	ug/l	2.00			
Ethylbenzene	ND	ug/l	2.00			
p/m-Xylene	ND	ug/l	2.00			
o-Xylene	ND	ug/l	2.00			
Methyl tert butyl ether	ND	ug/l	3.00			
Naphthalene	ND	ug/l	10.0			
Surrogate(s)	Recovery		QC Criteria			
2,5-Dibromotoluene-PID	103.	%	70-130			
2,5-Dibromotoluene-FID	95.0	%	70-130			
Blank Analysis for sample(s) 01-09 (WG208220-1)						
Extractable Petroleum Hydrocarbons				61 EPH-04-1	0721 14:30	0726 01:16 BN
C9-C18 Aliphatics	ND	ug/l	100.			
C19-C36 Aliphatics	ND	ug/l	100.			
C11-C22 Aromatics	ND	ug/l	100.			
C11-C22 Aromatics, Adjusted	ND	ug/l	100.			
Naphthalene	ND	ug/l	10.0			

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0508065

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE	ID
					PREP	ANAL
Blank Analysis for sample(s) 01-09 (WG208220-1)						
Extractable Petroleum Hydrocarbons cont'd				61 EPH-04-1	0721 14:30	0726 01:16 BN
2-Methylnaphthalene	ND	ug/l	10.0			
Acenaphthylene	ND	ug/l	10.0			
Acenaphthene	ND	ug/l	10.0			
Fluorene	ND	ug/l	10.0			
Phenanthrene	ND	ug/l	10.0			
Anthracene	ND	ug/l	10.0			
Fluoranthene	ND	ug/l	10.0			
Pyrene	ND	ug/l	10.0			
Benzo(a)anthracene	ND	ug/l	10.0			
Chrysene	ND	ug/l	10.0			
Benzo(b)fluoranthene	ND	ug/l	10.0			
Benzo(k)fluoranthene	ND	ug/l	10.0			
Benzo(a)pyrene	ND	ug/l	10.0			
Indeno(1,2,3-cd)Pyrene	ND	ug/l	10.0			
Dibenzo(a,h)anthracene	ND	ug/l	10.0			
Benzo(ghi)perylene	ND	ug/l	10.0			
Surrogate(s)	Recovery		QC Criteria			
Chloro-Octadecane	69.0	%	40-140			
o-Terphenyl	70.0	%	40-140			
2-Fluorobiphenyl	73.0	%	40-140			
2-Bromonaphthalene	73.0	%	40-140			

ALPHA ANALYTICAL LABORATORIES
ADDENDUM I

REFERENCES

59. Method for the Determination of Volatile Petroleum Hydrocarbons (VPH).
Massachusetts Department of Environmental Protection, DEA/ORS/BWSC. May 2004,
Revision 1.1.
60. Quality Assurance and Quality Control Requirements and Performance Standards
for SW-846 Methods. MADEP BWSC. WSC-CAM-IIA (Revision 4), WSC-CAM-V C
(Revision 2), WSC-CAM-IIIA (Revision 5). May 2004.
61. Method for the Determination of Extractable Petroleum Hydrocarbons (EPH).
Massachusetts Department of Environmental Protection, DEA/ORS/BWSC. May 2004,
Revision 1.1.

GLOSSARY OF TERMS AND SYMBOLS

REF Reference number in which test method may be found.
METHOD Method number by which analysis was performed.
ID Initials of the analyst.
ND Not detected in comparison to the reported detection limit.
NI Not Ignitable.
ug/cart Micrograms per Cartridge.

LIMITATION OF LIABILITIES

Alpha Analytical, Inc. performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical, Inc., shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical, Inc. be held liable for any incidental consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical, Inc.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding times and splitting of samples in the field.

ALPHA ANALYTICAL LABORATORIES
LOGIN SPECIFIC INFORMATION

Laboratory Job Number: L0508065

Were project specific reporting limits specified?

YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp	Pres	Seal	Analysis
L0508065-01A	Vial HCl preserved	A	N/A	1.3 C	Y	Absent	MCP-8260-04
L0508065-01B	Vial HCl preserved	A	N/A	1.3 C	Y	Absent	MCP-8260-04
L0508065-01C	Vial HCl preserved	A	N/A	1.3 C	Y	Absent	VPH-DELUX-04
L0508065-01D	Vial HCl preserved	A	N/A	1.3 C	Y	Absent	VPH-DELUX-04
L0508065-01E	Amber 1000ml HCl preserved	A	<2	1.3 C	Y	Absent	EPH-DELUX-04
L0508065-01F	Amber 1000ml HCl preserved	A	<2	1.3 C	Y	Absent	EPH-DELUX-04
L0508065-02A	Vial HCl preserved	A	N/A	1.3 C	Y	Absent	MCP-8260-04
L0508065-02B	Vial HCl preserved	A	N/A	1.3 C	Y	Absent	MCP-8260-04
L0508065-02C	Vial HCl preserved	A	N/A	1.3 C	Y	Absent	VPH-DELUX-04
L0508065-02E	Amber 1000ml HCl preserved	A	<2	1.3 C	Y	Absent	EPH-DELUX-04
L0508065-02F	Amber 1000ml HCl preserved	A	<2	1.3 C	Y	Absent	EPH-DELUX-04
L0508065-03A	Vial HCl preserved	A	N/A	1.3 C	Y	Absent	MCP-8260-04
L0508065-03B	Vial HCl preserved	A	N/A	1.3 C	Y	Absent	MCP-8260-04
L0508065-03C	Vial HCl preserved	A	N/A	1.3 C	Y	Absent	VPH-DELUX-04
L0508065-03E	Amber 1000ml HCl preserved	A	<2	1.3 C	Y	Absent	EPH-DELUX-04
L0508065-03F	Amber 1000ml HCl preserved	A	<2	1.3 C	Y	Absent	EPH-DELUX-04
L0508065-04A	Vial HCl preserved	A	N/A	1.3 C	Y	Absent	MCP-8260-04
L0508065-04B	Vial HCl preserved	A	N/A	1.3 C	Y	Absent	MCP-8260-04
L0508065-04C	Vial HCl preserved	A	N/A	1.3 C	Y	Absent	VPH-DELUX-04
L0508065-04D	Vial HCl preserved	A	N/A	1.3 C	Y	Absent	VPH-DELUX-04
L0508065-04E	Amber 1000ml HCl preserved	A	<2	1.3 C	Y	Absent	EPH-DELUX-04
L0508065-04F	Amber 1000ml HCl preserved	A	<2	1.3 C	Y	Absent	EPH-DELUX-04
L0508065-05A	Vial HCl preserved	A	N/A	1.3 C	Y	Absent	MCP-8260-04
L0508065-05B	Vial HCl preserved	A	N/A	1.3 C	Y	Absent	MCP-8260-04
L0508065-05C	Vial HCl preserved	A	N/A	1.3 C	Y	Absent	VPH-DELUX-04
L0508065-05D	Vial HCl preserved	A	N/A	1.3 C	Y	Absent	VPH-DELUX-04
L0508065-05E	Amber 1000ml HCl preserved	A	<2	1.3 C	Y	Absent	EPH-DELUX-04
L0508065-05F	Amber 1000ml HCl preserved	A	<2	1.3 C	Y	Absent	EPH-DELUX-04
L0508065-06A	Vial HCl preserved	A	N/A	1.3 C	Y	Absent	MCP-8260-04
L0508065-06B	Vial HCl preserved	A	N/A	1.3 C	Y	Absent	MCP-8260-04
L0508065-06C	Vial HCl preserved	A	N/A	1.3 C	Y	Absent	VPH-DELUX-04
L0508065-06D	Vial HCl preserved	A	N/A	1.3 C	Y	Absent	VPH-DELUX-04
L0508065-06E	Amber 1000ml HCl preserved	A	<2	1.3 C	Y	Absent	EPH-DELUX-04
L0508065-06F	Amber 1000ml HCl preserved	A	<2	1.3 C	Y	Absent	EPH-DELUX-04
L0508065-07A	Vial HCl preserved	A	N/A	1.3 C	Y	Absent	MCP-8260-04
L0508065-07B	Vial HCl preserved	A	N/A	1.3 C	Y	Absent	MCP-8260-04
L0508065-07C	Vial HCl preserved	A	N/A	1.3 C	Y	Absent	VPH-DELUX-04
L0508065-07D	Vial HCl preserved	A	N/A	1.3 C	Y	Absent	VPH-DELUX-04
L0508065-07E	Amber 1000ml HCl preserved	A	<2	1.3 C	Y	Absent	EPH-DELUX-04
L0508065-07F	Amber 1000ml HCl preserved	A	<2	1.3 C	Y	Absent	EPH-DELUX-04
L0508065-08A	Vial HCl preserved	A	N/A	1.3 C	Y	Absent	MCP-8260-04

ALPHA ANALYTICAL LABORATORIES
LOGIN SPECIFIC INFORMATION

Laboratory Job Number: L0508065

Continued

Container ID	Container Type	Cooler	pH	Temp	Pres	Seal	Analysis
L0508065-08B	Vial HCl preserved	A	N/A	1.3 C	Y	Absent	MCP-8260-04
L0508065-08C	Vial HCl preserved	A	N/A	1.3 C	Y	Absent	VPH-DELUX-04
L0508065-08D	Vial HCl preserved	A	N/A	1.3 C	Y	Absent	VPH-DELUX-04
L0508065-08E	Amber 1000ml HCl preserved	A	<2	1.3 C	Y	Absent	EPH-DELUX-04
L0508065-08F	Amber 1000ml HCl preserved	A	<2	1.3 C	Y	Absent	EPH-DELUX-04
L0508065-09A	Vial HCl preserved	A	N/A	1.3 C	Y	Absent	MCP-8260-04
L0508065-09B	Vial HCl preserved	A	N/A	1.3 C	Y	Absent	MCP-8260-04
L0508065-09C	Vial HCl preserved	A	N/A	1.3 C	Y	Absent	VPH-DELUX-04
L0508065-09D	Vial HCl preserved	A	N/A	1.3 C	Y	Absent	VPH-DELUX-04
L0508065-09E	Amber 1000ml HCl preserved	A	<2	1.3 C	Y	Absent	EPH-DELUX-04
L0508065-09F	Amber 1000ml HCl preserved	A	<2	1.3 C	Y	Absent	EPH-DELUX-04

Container Comments

Container ID Comments



CHAIN OF CUSTODY

PAGE _____ OF _____

Eight Walkup Drive Westborough, MA 01581
TEL: 508-898-9220 FAX: 508-898-9193

Client Information

Client: Saberna Head & Assoc.

Address: 2 Technology Park Dr.

Westford, MA 01886

Phone: 978-392-0900

Fax: 978-392-0987

Email: mheil@sabernhead.com

☐ These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

Project Information

Project Name: Kent-Melrose, MA

Project Location: 853-211 Main St., Melrose, MA

Project #: 2564.00

Project Manager: Math Heil

Alpha Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved)

Date Due: 7/27 Time:

Date Rec'd in Lab:

7/20

ALPHA Job #: 2070806

Report Information - Data Deliverables

☐ FAX ☐ EMAIL

☒ ADDEX ☐ Add'l Deliverables

Billing Information

☐ Same as Client info ☐ PO #:

Regulatory Requirements/Report Limits

State Fed Program

MA MCP

Criteria Re GW-2

MCP PRESUMPTIVE CERTAINTY - THESE QUESTIONS MUST BE ANSWERED

☒ Yes ☐ No Are MCP Analytical Methods Required?

☒ Yes ☐ No Are Drinking Water Samples Submitted?

☒ Yes ☐ No Have you met minimum field QC requirements?

ANALYSIS

YPH De/box
SPH De/box
for Halocarbons - 826113
by GELMS (82608)

SAMPLE HANDLING

Filtration

☐ Done

☒ Not needed

☐ Lab to do

☐ Preservation

☐ Lab to do

(Please specify below)

Sample Specific Comments

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials										
		Date	Time												
80651	SH-1A	7/19/05	11:30	GW	MG	X	X	X							
2	SH-2		11:25												
3	SH-3		10:55		MG										
4	SH-4		10:20		ESK										
5	SH-5		10:15		MG										
6	SH-7S		9:00		MG										
7	SH-7D		9:25		ESK										
8	MW-9		12:30		MG										
9	MW-10		12:35		ESK										

QUESTIONS ABOVE MUST BE ANSWERED FOR PRESUMPTIVE CERTAINTY

IS YOUR

PROJECT MCP?

Relinquished By:

Emily J. Newback

Lee Payne

Date/Time

7/26/05 16:30

Lee Payne

Received By:

Math Heil

7/20/05

Date/Time

7/20/05

Math Heil

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock starts until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms. See reverse side.

ALPHA ANALYTICAL LABORATORIES

Eight Walkup Drive
Westborough, Massachusetts 01581-1019
(508) 898-9220 www.alphalab.com

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

CERTIFICATE OF ANALYSIS

Client: Sanborn, Head & Associates, Inc. Laboratory Job Number: L0510115
Address: 1 Technology Park Drive
Westford, MA 01886 Date Received: 01-SEP-2005
Attn: Mr. Matt Heil Date Reported: 09-SEP-2005
Project Number: 2564.00 Delivery Method: Alpha
Site: KORFF-MELROSE

The following questions pertain only to MCP Analytical Methods

An affirmative response to questions A,B,C & D is required for "Presumptive Certainty" status

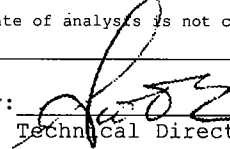
- A. Were all samples received by the laboratory in a condition consistent with those described on their Chain-of-Custody documentation for the data set? YES
- B. Were all QA/QC procedures required for the specified analytical method(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines? YES
- C. Does the analytical data included in this report meet all the requirements for "Presumptive Certainty", as described in section 2.0 of the MADEP document CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"? YES
- D. VPH and EPH methods only: Was the VPH or EPH method run without significant modifications, as specified in Section 11.3? YES

A response to questions E and F is required for "Presumptive Certainty" status

- E. Were all QC performance standards and recommendations for the specified method(s) achieved? NO
- F. Were results for all analyte-list compounds/elements for the specified method(s) reported? NO

Any answers of NO to the above questions are addressed in the case narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized by: 
Technical Director

ALPHA ANALYTICAL LABORATORIES

Laboratory Job Number: L0510115

Date Reported: 09-SEP-2005

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0510115-01	SH-8	887-911 MAIN ST, MELROSE
L0510115-02	SH-9	887-911 MAIN ST, MELROSE
L0510115-03	SH-10	887-911 MAIN ST, MELROSE
L0510115-04	SH-11	887-911 MAIN ST, MELROSE
L0510115-05	SH-12	887-911 MAIN ST, MELROSE
L0510115-06	SH-13	887-911 MAIN ST, MELROSE
L0510115-07	TRIP BLANK	887-911 MAIN ST, MELROSE
L0510115-08	TRIP BLANK	887-911 MAIN ST, MELROSE

ALPHA ANALYTICAL LABORATORIES
NARRATIVE REPORT

Laboratory Job Number: L0510115

Report Submission

In reference to question F:

At the client's request, all submitted samples were not analyzed for the full MCP list of compounds specified for the Method.

VPH

L0510115-05 has elevated limits of detection due to the 20x dilutions required by the elevated concentrations of target compounds in the sample.

Volatile Organics

The following have elevated limits of detection due to the dilutions required by the elevated concentrations of target compounds in the samples:

L0510115-02 (50X)

L0510115-05 (200X)

In reference to question E:

The WG212922-4,5 LCS,LCSD have low % recoveries for bromomethane (in the LCSD), 2,2-dichloropropane (in the LCSD), both difficult analytes and a high recovery for carbon tetrachloride, of which there were no hits of in any associated samples.

The WG213360-1,2 LCS,LCSD have high % recoveries for bromomethane and 4-methyl-2-pentanone (in the LCSD), both difficult analytes.

The WG213385-1,2 (LCS,LCSD) have low recoveries for dichlorodifluoromethane , a difficult analyte.

EPH

WG212865, WG213426: Extraction method 3510C.

In reference to question E:

The WG212865 LCS/LCSD RPD's for Nonane, Decane and Dodecane are above the acceptance criteria for the method. LCSD met all other acceptance criteria. The WG213426 LCSD % recoveries for C9-C18 aliphatic range, C19-C36 aliphatic range, C11-C22 aromatic range, Naphthalene, 2-Methylnaphthalene, Acenaphthalene, Acenaphthene, Fluorene, Phenanthrene, Anthracene, Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)Pyrene, Dibenzo(a,h)anthracene, Benzo(g,h,i)perylene, Nonane, Decane, Dodecane, Tetradecane, Hexadecane, Octadecane, Nonadecane, Eicosane, Docosane, Tetracosane, Hexacosane, Octacosane, Triacontane, and Hexatriacontane are below the acceptance criteria for the method.

The WG213426 LCS/LCSD RPD's for C9-C18 aliphatic range, C19-C36 aliphatic range, C11-C22 aromatic range, Naphthalene, 2-Methylnaphthalene, Acenaphthalene, Acenaphthene, Fluorene, Phenanthrene, Anthracene, Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene (109%), Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)Pyrene,

ALPHA ANALYTICAL LABORATORIES
NARRATIVE REPORT

Laboratory Job Number: L0510115

Continued

Dibenzo(a,h)anthracene, Benzo(g,h,i)perylene, Nonane, Decane, Dodecane, Tetradecane, Hexadecane, Octadecane, Nonadecane, Eicosane, Docosane, Tetracosane, Hexacosane, Octacosane, Triacontane, are Hexatriacontane are above the acceptance criteria for the method.

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0510115-01

Date Collected: 31-AUG-2005 13:00

SH-8

Date Received : 01-SEP-2005

Sample Matrix: WATER

Date Reported : 09-SEP-2005

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Amber,4-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B				60 8260B	0909 01:01 PD		
Methylene chloride	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	0.75				
Chloroform	ND	ug/l	0.75				
Carbon tetrachloride	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	1.8				
Dibromochloromethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.75				
Tetrachloroethene	12.	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
Bromodichloromethane	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
Bromoform	ND	ug/l	2.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Chloromethane	ND	ug/l	2.5				
Vinyl chloride	ND	ug/l	1.0				
Chloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.75				
Trichloroethene	1.3	ug/l	0.50				
1,2-Dichlorobenzene	ND	ug/l	2.5				
1,3-Dichlorobenzene	ND	ug/l	2.5				
1,4-Dichlorobenzene	ND	ug/l	2.5				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
1,2-Dibromoethane	ND	ug/l	2.0				
1,3-Dichloropropane	ND	ug/l	2.5				
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50				
o-Chlorotoluene	ND	ug/l	2.5				
p-Chlorotoluene	ND	ug/l	2.5				
Hexachlorobutadiene	ND	ug/l	1.0				
1,2,4-Trichlorobenzene	ND	ug/l	2.5				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0510115-01
SH-8

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B cont'd				60 8260B	0909 01:01 PD		
Surrogate(s)	Recovery		QC Criteria				
1,2-Dichloroethane-d4	101.	%	70-130				
Toluene-d8	99.0	%	70-130				
4-Bromofluorobenzene	99.0	%	70-130				
Dibromofluoromethane	98.0	%	70-130				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0510115-01
SH-8

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	

Volatile Petroleum Hydrocarbons

59 VPH-04-1.1

0902 14:08 MM

Quality Control Information

Condition of sample received:	Satisfactory
Aqueous preservative:	Laboratory Provided Preserved Container
Sample temperature upon receipt:	Received on Ice
Were all QA/QC procedures REQUIRED by the method followed?	YES
Were all performance/acceptance standards for the required procedures achieved?	YES
Were significant modifications made to the method as specified in Sect 11.3?	NO
The normal acceptance range for the surrogate, 2,5-Dibromotoluene, is 70-130%.	

C5-C8 Aliphatics	ND	ug/l	50.0
C9-C12 Aliphatics	ND	ug/l	50.0
C9-C10 Aromatics	ND	ug/l	50.0
C5-C8 Aliphatics, Adjusted	ND	ug/l	50.0
C9-C12 Aliphatics, Adjusted	ND	ug/l	50.0
Benzene	ND	ug/l	2.00
Toluene	ND	ug/l	2.00
Ethylbenzene	ND	ug/l	2.00
p/m-Xylene	ND	ug/l	2.00
o-Xylene	ND	ug/l	2.00
Methyl tert butyl ether	6.38	ug/l	3.00
Naphthalene	ND	ug/l	10.0

Surrogate(s)	Recovery	QC Criteria
2,5-Dibromotoluene-PID	92.0 %	70-130
2,5-Dibromotoluene-FID	90.0 %	70-130

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0510115-01
SH-8

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
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Extractable Petroleum Hydrocarbons	61 EPH-04-1	0908 23:15 0909 09:54 BN
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Quality Control Information

Condition of sample received:	Satisfactory
Aqueous preservative:	Laboratory Provided Preserved Container
Sample temperature upon receipt:	Received on Ice
Sample extraction method:	Extracted Per the Method
Were all QA/QC procedures REQUIRED by the method followed?	YES
Were all performance/acceptance standards for the required procedures achieved?	NO
1. One or more of the RPD values for the LCSD was greater than 25%. 2. One or more of the EPH LCS/LCSD recoveries were less than 40%.	
Were significant modifications made to the method as specified in Sect 11.3?	NO
The normal acceptance range for the extraction surrogates, Chloro-octadecane and o-Terphenyl, is 40-140%.	
The normal acceptance range for the fractionation surrogates, 2-Fluorobiphenyl and 2-Bromonaphthalene, is 40-140%.	

C9-C18 Aliphatics	ND	ug/l	110.
C19-C36 Aliphatics	ND	ug/l	110.
C11-C22 Aromatics	ND	ug/l	110.
C11-C22 Aromatics, Adjusted	ND	ug/l	110.
Naphthalene	ND	ug/l	11.0
2-Methylnaphthalene	ND	ug/l	11.0
Acenaphthylene	ND	ug/l	11.0
Acenaphthene	ND	ug/l	11.0
Fluorene	ND	ug/l	11.0
Phenanthrene	ND	ug/l	11.0
Anthracene	ND	ug/l	11.0
Fluoranthene	ND	ug/l	11.0
Pyrene	ND	ug/l	11.0
Benzo(a)anthracene	ND	ug/l	11.0
Chrysene	ND	ug/l	11.0
Benzo(b)fluoranthene	ND	ug/l	11.0
Benzo(k)fluoranthene	ND	ug/l	11.0
Benzo(a)pyrene	ND	ug/l	11.0
Indeno(1,2,3-cd)Pyrene	ND	ug/l	11.0
Dibenzo(a,h)anthracene	ND	ug/l	11.0
Benzo(ghi)perylene	ND	ug/l	11.0
Surrogate(s)	Recovery		QC Criteria
Chloro-Octadecane	48.0	%	40-140
o-Terphenyl	74.0	%	40-140
2-Fluorobiphenyl	80.0	%	40-140
2-Bromonaphthalene	79.0	%	40-140

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0510115-02

SH-9

Sample Matrix: WATER

Date Collected: 31-AUG-2005 16:25

Date Received : 01-SEP-2005

Date Reported : 09-SEP-2005

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Amber, 4-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE	ID
					PREP	ANAL
Volatile Organics by MCP 8260B				60 8260B	0909 01:41 PD	
Methylene chloride	ND	ug/l	250			
1,1-Dichloroethane	ND	ug/l	38.			
Chloroform	ND	ug/l	38.			
Carbon tetrachloride	ND	ug/l	25.			
1,2-Dichloropropane	ND	ug/l	88.			
Dibromochloromethane	ND	ug/l	25.			
1,1,2-Trichloroethane	ND	ug/l	38.			
Tetrachloroethene	80.	ug/l	25.			
Chlorobenzene	ND	ug/l	25.			
1,2-Dichloroethane	ND	ug/l	25.			
1,1,1-Trichloroethane	ND	ug/l	25.			
Bromodichloromethane	ND	ug/l	25.			
trans-1,3-Dichloropropene	ND	ug/l	25.			
cis-1,3-Dichloropropene	ND	ug/l	25.			
Bromoform	ND	ug/l	100			
1,1,2,2-Tetrachloroethane	ND	ug/l	25.			
Chloromethane	ND	ug/l	120			
Vinyl chloride	ND	ug/l	50.			
Chloroethane	ND	ug/l	50.			
1,1-Dichloroethene	ND	ug/l	25.			
trans-1,2-Dichloroethene	ND	ug/l	38.			
Trichloroethene	37.	ug/l	25.			
1,2-Dichlorobenzene	ND	ug/l	120			
1,3-Dichlorobenzene	ND	ug/l	120			
1,4-Dichlorobenzene	ND	ug/l	120			
cis-1,2-Dichloroethene	2000	ug/l	25.			
Dichlorodifluoromethane	ND	ug/l	250			
1,2-Dibromoethane	ND	ug/l	100			
1,3-Dichloropropane	ND	ug/l	120.			
1,1,1,2-Tetrachloroethane	ND	ug/l	25.			
o-Chlorotoluene	ND	ug/l	120			
p-Chlorotoluene	ND	ug/l	120			
Hexachlorobutadiene	ND	ug/l	50.			
1,2,4-Trichlorobenzene	ND	ug/l	120			

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0510115-02
SH-9

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B cont'd				60 8260B		0909 01:41 PD	
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	98.0	%		70-130			
Toluene-d8	101.	%		70-130			
4-Bromofluorobenzene	97.0	%		70-130			
Dibromofluoromethane	101.	%		70-130			

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0510115-02
SH-9

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	

Volatile Petroleum Hydrocarbons				59 VPH-04-1.1		0902 14:59 MM	
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Quality Control Information

Condition of sample received:	Satisfactory	
Aqueous preservative:	Laboratory Provided Preserved Container	
Sample temperature upon receipt:	Received on Ice	
Were all QA/QC procedures REQUIRED by the method followed?		YES
Were all performance/acceptance standards for the required procedures achieved?		YES
Were significant modifications made to the method as specified in Sect 11.3?		NO
The normal acceptance range for the surrogate, 2,5-Dibromotoluene, is 70-130%.		

C5-C8 Aliphatics	605.	ug/l	50.0
C9-C12 Aliphatics	ND	ug/l	50.0
C9-C10 Aromatics	ND	ug/l	50.0
C5-C8 Aliphatics, Adjusted	605.	ug/l	50.0
C9-C12 Aliphatics, Adjusted	ND	ug/l	50.0
Benzene	ND	ug/l	2.00
Toluene	ND	ug/l	2.00
Ethylbenzene	ND	ug/l	2.00
p/m-Xylene	ND	ug/l	2.00
o-Xylene	ND	ug/l	2.00
Methyl tert butyl ether	ND	ug/l	3.00
Naphthalene	ND	ug/l	10.0
Surrogate(s)	Recovery		QC Criteria
2,5-Dibromotoluene-PID	92.0	%	70-130
2,5-Dibromotoluene-FID	90.0	%	70-130

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0510115-02
SH-9

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
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Extractable Petroleum Hydrocarbons	61 EPH-04-1	0902 18:45 0908 18:08 BN
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Quality Control Information

Condition of sample received:	Satisfactory	
Aqueous preservative:	Laboratory Provided Preserved Container	
Sample temperature upon receipt:	Received on Ice	
Sample extraction method:	Extracted Per the Method	
Were all QA/QC procedures REQUIRED by the method followed?		YES
Were all performance/acceptance standards for the required procedures achieved?		NO
1. One or more of the RPD values for the LCSD was greater than 25%.		
Were significant modifications made to the method as specified in Sect 11.3?		NO
The normal acceptance range for the extraction surrogates, Chloro-octadecane and o-Terphenyl, is 40-140%.		
The normal acceptance range for the fractionation surrogates, 2-Fluorobiphenyl and 2-Bromonaphthalene, is 40-140%.		

C9-C18 Aliphatics	ND	ug/l	106.
C19-C36 Aliphatics	ND	ug/l	106.
C11-C22 Aromatics	ND	ug/l	106.
C11-C22 Aromatics, Adjusted	ND	ug/l	106.
Naphthalene	ND	ug/l	10.6
2-Methylnaphthalene	ND	ug/l	10.6
Acenaphthylene	ND	ug/l	10.6
Acenaphthene	ND	ug/l	10.6
Fluorene	ND	ug/l	10.6
Phenanthrene	ND	ug/l	10.6
Anthracene	ND	ug/l	10.6
Fluoranthene	ND	ug/l	10.6
Pyrene	ND	ug/l	10.6
Benzo(a)anthracene	ND	ug/l	10.6
Chrysene	ND	ug/l	10.6
Benzo(b)fluoranthene	ND	ug/l	10.6
Benzo(k)fluoranthene	ND	ug/l	10.6
Benzo(a)pyrene	ND	ug/l	10.6
Indeno(1,2,3-cd)Pyrene	ND	ug/l	10.6
Dibenzo(a,h)anthracene	ND	ug/l	10.6
Benzo(ghi)perylene	ND	ug/l	10.6
Surrogate(s)	Recovery		QC Criteria
Chloro-Octadecane	54.0	%	40-140
o-Terphenyl	78.0	%	40-140
2-Fluorobiphenyl	86.0	%	40-140
2-Bromonaphthalene	86.0	%	40-140

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0510115-03

Date Collected: 31-AUG-2005 16:42

SH-10

Date Received : 01-SEP-2005

Sample Matrix:

WATER

Date Reported : 09-SEP-2005

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Amber,4-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B				60 8260B	0909 02:22 PD		
Methylene chloride	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	0.75				
Chloroform	ND	ug/l	0.75				
Carbon tetrachloride	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	1.8				
Dibromochloromethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.75				
Tetrachloroethene	2.0	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
Bromodichloromethane	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
Bromoform	ND	ug/l	2.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Chloromethane	ND	ug/l	2.5				
Vinyl chloride	2.0	ug/l	1.0				
Chloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.75				
Trichloroethene	3.5	ug/l	0.50				
1,2-Dichlorobenzene	ND	ug/l	2.5				
1,3-Dichlorobenzene	ND	ug/l	2.5				
1,4-Dichlorobenzene	ND	ug/l	2.5				
cis-1,2-Dichloroethene	6.8	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
1,2-Dibromoethane	ND	ug/l	2.0				
1,3-Dichloropropane	ND	ug/l	2.5				
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50				
o-Chlorotoluene	ND	ug/l	2.5				
p-Chlorotoluene	ND	ug/l	2.5				
Hexachlorobutadiene	ND	ug/l	1.0				
1,2,4-Trichlorobenzene	ND	ug/l	2.5				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0510115-03
SH-10

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B cont'd				60 8260B		0909 02:22 PD	
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	102.	%		70-130			
Toluene-d8	103.	%		70-130			
4-Bromofluorobenzene	100.	%		70-130			
Dibromofluoromethane	103.	%		70-130			

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0510115-03
SH-10

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	

Volatile Petroleum Hydrocarbons

59 VPH-04-1.1

0902 15:50 MM

Quality Control Information

Condition of sample received:	Satisfactory
Aqueous preservative:	Laboratory Provided Preserved Container
Sample temperature upon receipt:	Received on Ice
Were all QA/QC procedures REQUIRED by the method followed?	YES
Were all performance/acceptance standards for the required procedures achieved?	YES
Were significant modifications made to the method as specified in Sect 11.3?	NO
The normal acceptance range for the surrogate, 2,5-Dibromotoluene, is 70-130%.	

C5-C8 Aliphatics	ND	ug/l	50.0
C9-C12 Aliphatics	ND	ug/l	50.0
C9-C10 Aromatics	ND	ug/l	50.0
C5-C8 Aliphatics, Adjusted	ND	ug/l	50.0
C9-C12 Aliphatics, Adjusted	ND	ug/l	50.0
Benzene	ND	ug/l	2.00
Toluene	ND	ug/l	2.00
Ethylbenzene	ND	ug/l	2.00
p/m-Xylene	ND	ug/l	2.00
o-Xylene	ND	ug/l	2.00
Methyl tert butyl ether	ND	ug/l	3.00
Naphthalene	ND	ug/l	10.0

Surrogate(s)	Recovery		QC Criteria
2,5-Dibromotoluene-PID	80.0	%	70-130
2,5-Dibromotoluene-FID	79.0	%	70-130

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0510115-03
SH-10

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
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Extractable Petroleum Hydrocarbons	61 EPH-04-1	0902 18:45	0908 18:39	BN
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Quality Control Information

Condition of sample received:	Satisfactory	
Aqueous preservative:	Laboratory Provided Preserved Container	
Sample temperature upon receipt:	Received on Ice	
Sample extraction method:	Extracted Per the Method	
Were all QA/QC procedures REQUIRED by the method followed?		YES
Were all performance/acceptance standards for the required procedures achieved?		NO
1. One or more of the RPD values for the LCSD was greater than 25%.		
Were significant modifications made to the method as specified in Sect 11.3?		NO
The normal acceptance range for the extraction surrogates, Chloro-octadecane and o-Terphenyl, is 40-140%.		
The normal acceptance range for the fractionation surrogates, 2-Fluorobiphenyl and 2-Bromonaphthalene, is 40-140%.		

C9-C18 Aliphatics	ND	ug/l	112.
C19-C36 Aliphatics	ND	ug/l	112.
C11-C22 Aromatics	ND	ug/l	112.
C11-C22 Aromatics, Adjusted	ND	ug/l	112.
Naphthalene	ND	ug/l	11.2
2-Methylnaphthalene	ND	ug/l	11.2
Acenaphthylene	ND	ug/l	11.2
Acenaphthene	ND	ug/l	11.2
Fluorene	ND	ug/l	11.2
Phenanthrene	ND	ug/l	11.2
Anthracene	ND	ug/l	11.2
Fluoranthene	ND	ug/l	11.2
Pyrene	ND	ug/l	11.2
Benzo(a)anthracene	ND	ug/l	11.2
Chrysene	ND	ug/l	11.2
Benzo(b)fluoranthene	ND	ug/l	11.2
Benzo(k)fluoranthene	ND	ug/l	11.2
Benzo(a)pyrene	ND	ug/l	11.2
Indeno(1,2,3-cd)Pyrene	ND	ug/l	11.2
Dibenzo(a,h)anthracene	ND	ug/l	11.2
Benzo(ghi)perylene	ND	ug/l	11.2
Surrogate(s)	Recovery		QC Criteria
Chloro-Octadecane	61.0	%	40-140
o-Terphenyl	81.0	%	40-140
2-Fluorobiphenyl	88.0	%	40-140
2-Bromonaphthalene	88.0	%	40-140

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0510115-04

Date Collected: 31-AUG-2005 15:25

SH-11

Date Received : 01-SEP-2005

Sample Matrix:

WATER

Date Reported : 09-SEP-2005

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Amber,4-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B				60 8260B		0909 03:02 PD	
Methylene chloride	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	0.75				
Chloroform	ND	ug/l	0.75				
Carbon tetrachloride	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	1.8				
Dibromochloromethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.75				
Tetrachloroethane	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
Bromodichloromethane	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
Bromoform	ND	ug/l	2.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Chloromethane	ND	ug/l	2.5				
Vinyl chloride	ND	ug/l	1.0				
Chloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.75				
Trichloroethene	ND	ug/l	0.50				
1,2-Dichlorobenzene	ND	ug/l	2.5				
1,3-Dichlorobenzene	ND	ug/l	2.5				
1,4-Dichlorobenzene	ND	ug/l	2.5				
cis-1,2-Dichloroethene	2.6	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
1,2-Dibromoethane	ND	ug/l	2.0				
1,3-Dichloropropane	ND	ug/l	2.5				
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50				
o-Chlorotoluene	ND	ug/l	2.5				
p-Chlorotoluene	ND	ug/l	2.5				
Hexachlorobutadiene	ND	ug/l	1.0				
1,2,4-Trichlorobenzene	ND	ug/l	2.5				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0510115-04
SH-11

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B cont'd				60 8260B		0909 03:02 PD	
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	101.	%		70-130			
Toluene-d8	104.	%		70-130			
4-Bromofluorobenzene	97.0	%		70-130			
Dibromofluoromethane	103.	%		70-130			

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0510115-04
SH-11

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	

Volatile Petroleum Hydrocarbons				59 VPH-04-1.1		0902 16:41 MM	
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Quality Control Information

Condition of sample received:	Satisfactory
Aqueous preservative:	Laboratory Provided Preserved Container
Sample temperature upon receipt:	Received on Ice
Were all QA/QC procedures REQUIRED by the method followed?	YES
Were all performance/acceptance standards for the required procedures achieved?	YES
Were significant modifications made to the method as specified in Sect 11.3?	NO
The normal acceptance range for the surrogate, 2,5-Dibromotoluene, is 70-130%.	

C5-C8 Aliphatics	ND	ug/l	50.0
C9-C12 Aliphatics	ND	ug/l	50.0
C9-C10 Aromatics	ND	ug/l	50.0
C5-C8 Aliphatics, Adjusted	ND	ug/l	50.0
C9-C12 Aliphatics, Adjusted	ND	ug/l	50.0
Benzene	ND	ug/l	2.00
Toluene	ND	ug/l	2.00
Ethylbenzene	ND	ug/l	2.00
p/m-Xylene	ND	ug/l	2.00
o-Xylene	ND	ug/l	2.00
Methyl tert butyl ether	9.37	ug/l	3.00
Naphthalene	ND	ug/l	10.0
Surrogate(s)	Recovery		QC Criteria
2,5-Dibromotoluene-PID	87.0	%	70-130
2,5-Dibromotoluene-FID	85.0	%	70-130

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0510115-04
SH-11

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
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Extractable Petroleum Hydrocarbons

61 EPH-04-1

0902 18:45 0908 19:11 BN

Quality Control Information

Condition of sample received:	Satisfactory	
Aqueous preservative:	Laboratory Provided Preserved Container	
Sample temperature upon receipt:	Received on Ice	
Sample extraction method:	Extracted Per the Method	
Were all QA/QC procedures REQUIRED by the method followed?		YES
Were all performance/acceptance standards for the required procedures achieved?		NO
1. One or more of the RPD values for the LCSD was greater than 25%.		
Were significant modifications made to the method as specified in Sect 11.3?		NO
The normal acceptance range for the extraction surrogates, Chloro-octadecane and o-Terphenyl, is 40-140%.		
The normal acceptance range for the fractionation surrogates, 2-Fluorobiphenyl and 2-Bromonaphthalene, is 40-140%.		

C9-C18 Aliphatics	ND	ug/l	105.
C19-C36 Aliphatics	ND	ug/l	105.
C11-C22 Aromatics	ND	ug/l	105.
C11-C22 Aromatics, Adjusted	ND	ug/l	105.
Naphthalene	ND	ug/l	10.5
2-Methylnaphthalene	ND	ug/l	10.5
Acenaphthylene	ND	ug/l	10.5
Acenaphthene	ND	ug/l	10.5
Fluorene	ND	ug/l	10.5
Phenanthrene	ND	ug/l	10.5
Anthracene	ND	ug/l	10.5
Fluoranthene	ND	ug/l	10.5
Pyrene	ND	ug/l	10.5
Benzo(a)anthracene	ND	ug/l	10.5
Chrysene	ND	ug/l	10.5
Benzo(b)fluoranthene	ND	ug/l	10.5
Benzo(k)fluoranthene	ND	ug/l	10.5
Benzo(a)pyrene	ND	ug/l	10.5
Indeno(1,2,3-cd)Pyrene	ND	ug/l	10.5
Dibenzo(a,h)anthracene	ND	ug/l	10.5
Benzo(ghi)perylene	ND	ug/l	10.5

Surrogate(s)	Recovery	QC Criteria
Chloro-Octadecane	54.0 %	40-140
o-Terphenyl	81.0 %	40-140
2-Fluorobiphenyl	88.0 %	40-140
2-Bromonaphthalene	87.0 %	40-140

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0510115-05	Date Collected: 31-AUG-2005 14:00
SH-12	Date Received : 01-SEP-2005
Sample Matrix: WATER	Date Reported : 09-SEP-2005
Condition of Sample: Satisfactory	Field Prep: None
Number & Type of Containers: 2-Amber, 4-Vial	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B				60 8260B	0909 03:42 PD		
Methylene chloride	ND	ug/l	1000				
1,1-Dichloroethane	ND	ug/l	150				
Chloroform	ND	ug/l	150				
Carbon tetrachloride	ND	ug/l	100				
1,2-Dichloropropane	ND	ug/l	350				
Dibromochloromethane	ND	ug/l	100				
1,1,2-Trichloroethane	ND	ug/l	150				
Tetrachloroethene	3700	ug/l	100				
Chlorobenzene	ND	ug/l	100				
1,2-Dichloroethane	ND	ug/l	100				
1,1,1-Trichloroethane	ND	ug/l	100				
Bromodichloromethane	ND	ug/l	100				
trans-1,3-Dichloropropene	ND	ug/l	100				
cis-1,3-Dichloropropene	ND	ug/l	100				
Bromoform	ND	ug/l	400				
1,1,2,2-Tetrachloroethane	ND	ug/l	100				
Chloromethane	ND	ug/l	500				
Vinyl chloride	ND	ug/l	200				
Chloroethane	ND	ug/l	200				
1,1-Dichloroethene	ND	ug/l	100				
trans-1,2-Dichloroethene	ND	ug/l	150				
Trichloroethene	3800	ug/l	100				
1,2-Dichlorobenzene	ND	ug/l	500				
1,3-Dichlorobenzene	ND	ug/l	500				
1,4-Dichlorobenzene	ND	ug/l	500				
cis-1,2-Dichloroethene	11000	ug/l	100				
Dichlorodifluoromethane	ND	ug/l	1000				
1,2-Dibromoethane	ND	ug/l	400				
1,3-Dichloropropane	ND	ug/l	500				
1,1,1,2-Tetrachloroethane	ND	ug/l	100				
o-Chlorotoluene	ND	ug/l	500				
p-Chlorotoluene	ND	ug/l	500				
Hexachlorobutadiene	ND	ug/l	200				
1,2,4-Trichlorobenzene	ND	ug/l	500				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0510115-05
SH-12

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B cont'd				60 8260B		0909 03:42 PD	
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	102.	%		70-130			
Toluene-d8	105.	%		70-130			
4-Bromofluorobenzene	100.	%		70-130			
Dibromofluoromethane	103.	%		70-130			

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0510115-05
SH-12

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	

Volatile Petroleum Hydrocarbons

59 VPH-04-1.1

0907 14:24 TT

Quality Control Information

Condition of sample received:	Satisfactory	
Aqueous preservative:	Laboratory Provided Preserved Container	
Sample temperature upon receipt:	Received on Ice	
Were all QA/QC procedures REQUIRED by the method followed?		YES
Were all performance/acceptance standards for the required procedures achieved?		YES
Were significant modifications made to the method as specified in Sect 11.3?		NO
The normal acceptance range for the surrogate, 2,5-Dibromotoluene, is 70-130%.		

C5-C8 Aliphatics	5260	ug/l	1000
C9-C12 Aliphatics	ND	ug/l	1000
C9-C10 Aromatics	ND	ug/l	1000
C5-C8 Aliphatics, Adjusted	5260	ug/l	1000
C9-C12 Aliphatics, Adjusted	ND	ug/l	1000
Benzene	ND	ug/l	40.0
Toluene	ND	ug/l	40.0
Ethylbenzene	ND	ug/l	40.0
p/m-Xylene	ND	ug/l	40.0
o-Xylene	ND	ug/l	40.0
Methyl tert butyl ether	ND	ug/l	60.0
Naphthalene	ND	ug/l	200.

Surrogate(s)	Recovery		QC Criteria
2,5-Dibromotoluene-PID	81.0	%	70-130
2,5-Dibromotoluene-FID	91.0	%	70-130

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0510115-05
SH-12

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	

Extractable Petroleum Hydrocarbons

61 EPH-04-1

0908 23:15 0909 10:29 BN

Quality Control Information

Condition of sample received:	Satisfactory	
Aqueous preservative:	Laboratory Provided Preserved Container	
Sample temperature upon receipt:	Received on Ice	
Sample extraction method:	Extracted Per the Method	
Were all QA/QC procedures REQUIRED by the method followed?		YES
Were all performance/acceptance standards for the required procedures achieved?		NO
1. One or more of the RPD values for the LCSD was greater than 25%.		
2. One or more of the EPH LCS/LCSD recoveries were less than 40%.		
Were significant modifications made to the method as specified in Sect 11.3?		NO
The normal acceptance range for the extraction surrogates, Chloro-octadecane and o-Terphenyl, is 40-140%.		
The normal acceptance range for the fractionation surrogates, 2-Fluorobiphenyl and 2-Bromonaphthalene, is 40-140%.		

C9-C18 Aliphatics	ND	ug/l	109.
C19-C36 Aliphatics	ND	ug/l	109.
C11-C22 Aromatics	116.	ug/l	109.
C11-C22 Aromatics, Adjusted	116.	ug/l	109.
Naphthalene	ND	ug/l	10.9
2-Methylnaphthalene	ND	ug/l	10.9
Acenaphthylene	ND	ug/l	10.9
Acenaphthene	ND	ug/l	10.9
Fluorene	ND	ug/l	10.9
Phenanthrene	ND	ug/l	10.9
Anthracene	ND	ug/l	10.9
Fluoranthene	ND	ug/l	10.9
Pyrene	ND	ug/l	10.9
Benzo(a)anthracene	ND	ug/l	10.9
Chrysene	ND	ug/l	10.9
Benzo(b)fluoranthene	ND	ug/l	10.9
Benzo(k)fluoranthene	ND	ug/l	10.9
Benzo(a)pyrene	ND	ug/l	10.9
Indeno(1,2,3-cd)Pyrene	ND	ug/l	10.9
Dibenzo(a,h)anthracene	ND	ug/l	10.9
Benzo(ghi)perylene	ND	ug/l	10.9

Surrogate(s)	Recovery		QC Criteria
Chloro-Octadecane	54.0	%	40-140
o-Terphenyl	88.0	%	40-140
2-Fluorobiphenyl	95.0	%	40-140
2-Bromonaphthalene	91.0	%	40-140

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0510115-06

SH-13

Sample Matrix:

WATER

Date Collected: 31-AUG-2005 17:05

Date Received : 01-SEP-2005

Date Reported : 09-SEP-2005

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Amber, 4-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B				60 8260B	0908 18:22 SE		
Methylene chloride	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	0.75				
Chloroform	ND	ug/l	0.75				
Carbon tetrachloride	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	1.8				
Dibromochloromethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.75				
Tetrachloroethene	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
Bromodichloromethane	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
Bromoform	ND	ug/l	2.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Chloromethane	ND	ug/l	2.5				
Vinyl chloride	ND	ug/l	1.0				
Chloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.75				
Trichloroethene	ND	ug/l	0.50				
1,2-Dichlorobenzene	ND	ug/l	2.5				
1,3-Dichlorobenzene	ND	ug/l	2.5				
1,4-Dichlorobenzene	ND	ug/l	2.5				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
1,2-Dibromoethane	ND	ug/l	2.0				
1,3-Dichloropropane	ND	ug/l	2.5				
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50				
o-Chlorotoluene	ND	ug/l	2.5				
p-Chlorotoluene	ND	ug/l	2.5				
Hexachlorobutadiene	ND	ug/l	1.0				
1,2,4-Trichlorobenzene	ND	ug/l	2.5				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0510115-06
SH-13

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B cont'd				60 8260B		0908 18:22 SE	
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	105.	%		70-130			
Toluene-d8	100.	%		70-130			
4-Bromofluorobenzene	103.	%		70-130			
Dibromofluoromethane	102.	%		70-130			

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0510115-06
 SH-13

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	

Volatile Petroleum Hydrocarbons

59 VPH-04-1.1

0902 18:23 MM

Quality Control Information

Condition of sample received:	Satisfactory	
Aqueous preservative:	Laboratory Provided Preserved Container	
Sample temperature upon receipt:	Received on Ice	
Were all QA/QC procedures REQUIRED by the method followed?		YES
Were all performance/acceptance standards for the required procedures achieved?		YES
Were significant modifications made to the method as specified in Sect 11.3?		NO
The normal acceptance range for the surrogate, 2,5-Dibromotoluene, is 70-130%.		

C5-C8 Aliphatics	ND	ug/l	50.0
C9-C12 Aliphatics	ND	ug/l	50.0
C9-C10 Aromatics	ND	ug/l	50.0
C5-C8 Aliphatics, Adjusted	ND	ug/l	50.0
C9-C12 Aliphatics, Adjusted	ND	ug/l	50.0
Benzene	ND	ug/l	2.00
Toluene	ND	ug/l	2.00
Ethylbenzene	ND	ug/l	2.00
p/m-Xylene	ND	ug/l	2.00
o-Xylene	ND	ug/l	2.00
Methyl tert butyl ether	ND	ug/l	3.00
Naphthalene	ND	ug/l	10.0

Surrogate(s)	Recovery		QC Criteria
2,5-Dibromotoluene-PID	87.0	%	70-130
2,5-Dibromotoluene-FID	85.0	%	70-130

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0510115-06
SH-13

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	

Extractable Petroleum Hydrocarbons

61 EPH-04-1

0902 18:45 0908 20:15 BN

Quality Control Information

Condition of sample received:	Satisfactory	
Aqueous preservative:	Laboratory Provided Preserved Container	
Sample temperature upon receipt:	Received on Ice	
Sample extraction method:	Extracted Per the Method	
Were all QA/QC procedures REQUIRED by the method followed?		YES
Were all performance/acceptance standards for the required procedures achieved?		NO
1. One or more of the RPD values for the LCSD was greater than 25%.		
Were significant modifications made to the method as specified in Sect 11.3?		NO
The normal acceptance range for the extraction surrogates, Chloro-octadecane and o-Terphenyl, is 40-140%.		
The normal acceptance range for the fractionation surrogates, 2-Fluorobiphenyl and 2-Bromonaphthalene, is 40-140%.		

C9-C18 Aliphatics	ND	ug/l	101.
C19-C36 Aliphatics	ND	ug/l	101.
C11-C22 Aromatics	ND	ug/l	101.
C11-C22 Aromatics, Adjusted	ND	ug/l	101.
Naphthalene	ND	ug/l	10.1
2-Methylnaphthalene	ND	ug/l	10.1
Acenaphthylene	ND	ug/l	10.1
Acenaphthene	ND	ug/l	10.1
Fluorene	ND	ug/l	10.1
Phenanthrene	ND	ug/l	10.1
Anthracene	ND	ug/l	10.1
Fluoranthene	ND	ug/l	10.1
Pyrene	ND	ug/l	10.1
Benzo(a)anthracene	ND	ug/l	10.1
Chrysene	ND	ug/l	10.1
Benzo(b)fluoranthene	ND	ug/l	10.1
Benzo(k)fluoranthene	ND	ug/l	10.1
Benzo(a)pyrene	ND	ug/l	10.1
Indeno(1,2,3-cd)Pyrene	ND	ug/l	10.1
Dibenzo(a,h)anthracene	ND	ug/l	10.1
Benzo(ghi)perylene	ND	ug/l	10.1

Surrogate(s)	Recovery		QC Criteria
Chloro-Octadecane	61.0	%	40-140
o-Terphenyl	81.0	%	40-140
2-Fluorobiphenyl	85.0	%	40-140
2-Bromonaphthalene	84.0	%	40-140

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0510115-07	Date Collected: 25-AUG-2005 19:00
Sample Matrix: TRIP BLANK	Date Received : 01-SEP-2005
Sample Matrix: WATER	Date Reported : 09-SEP-2005
Condition of Sample: Satisfactory	Field Prep: None
Number & Type of Containers: 1-Vial	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
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Volatile Petroleum Hydrocarbons	59 VPH-04-1.1			0902 19:14 MM
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Quality Control Information

Condition of sample received:	Satisfactory
Aqueous preservative:	Laboratory Provided Preserved Container
Sample temperature upon receipt:	Received on Ice
Were all QA/QC procedures REQUIRED by the method followed?	YES
Were all performance/acceptance standards for the required procedures achieved?	YES
Were significant modifications made to the method as specified in Sect 11.3?	NO
The normal acceptance range for the surrogate, 2,5-Dibromotoluene, is 70-130%.	

C5-C8 Aliphatics	ND	ug/l	50.0	
C9-C12 Aliphatics	ND	ug/l	50.0	
C9-C10 Aromatics	ND	ug/l	50.0	
C5-C8 Aliphatics, Adjusted	ND	ug/l	50.0	
C9-C12 Aliphatics, Adjusted	ND	ug/l	50.0	
Benzene	ND	ug/l	2.00	
Toluene	ND	ug/l	2.00	
Ethylbenzene	ND	ug/l	2.00	
p/m-Xylene	ND	ug/l	2.00	
o-Xylene	ND	ug/l	2.00	
Methyl tert butyl ether	ND	ug/l	3.00	
Naphthalene	ND	ug/l	10.0	
Surrogate(s)	Recovery		QC Criteria	
2,5-Dibromotoluene-PID	86.0	%	70-130	
2,5-Dibromotoluene-FID	85.0	%	70-130	

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0510115-08.
TRIP BLANK
Sample Matrix: WATER

Date Collected: 23-AUG-2005 16:00
Date Received : 01-SEP-2005
Date Reported : 09-SEP-2005

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B				60 8260B		0906 10:30 RY	
Methylene chloride	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	0.75				
Chloroform	ND	ug/l	0.75				
Carbon tetrachloride	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	1.8				
Dibromochloromethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.75				
Tetrachloroethene	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
Bromodichloromethane	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
Bromoform	ND	ug/l	2.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Chloromethane	ND	ug/l	2.5				
Vinyl chloride	ND	ug/l	1.0				
Chloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.75				
Trichloroethene	ND	ug/l	0.50				
1,2-Dichlorobenzene	ND	ug/l	2.5				
1,3-Dichlorobenzene	ND	ug/l	2.5				
1,4-Dichlorobenzene	ND	ug/l	2.5				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
1,2-Dibromoethane	ND	ug/l	2.0				
1,3-Dichloropropane	ND	ug/l	2.5				
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50				
o-Chlorotoluene	ND	ug/l	2.5				
p-Chlorotoluene	ND	ug/l	2.5				
Hexachlorobutadiene	ND	ug/l	1.0				
1,2,4-Trichlorobenzene	ND	ug/l	2.5				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0510115-08
 TRIP BLANK

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B cont'd				60 8260B	0906 10:30		RY
Surrogate(s)	Recovery		QC Criteria				
1,2-Dichloroethane-d4	106.	%	70-130				
Toluene-d8	97.0	%	70-130				
4-Bromofluorobenzene	98.0	%	70-130				
Dibromofluoromethane	107.	%	70-130				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH LCS/LCSD ANALYSIS

Laboratory Job Number: L0510115

Parameter	LCS %	LCSD %	RPD	RPD Limit	QC Limits
Volatile Organics by MCP 8260B for sample(s) 08 (WG212922-4, WG212922-5)					
Methylene chloride	101	103	2	25	70-130
1,1-Dichloroethane	101	102	1	25	70-130
Chloroform	118	119	1	25	70-130
Carbon tetrachloride	140	147	5	25	70-130
1,2-Dichloropropane	100	103	3	25	70-130
Dibromochloromethane	101	101	0	25	70-130
1,1,2-Trichloroethane	96	96	0	25	70-130
Tetrachloroethene	100	103	3	25	70-130
Chlorobenzene	97	98	1	25	70-130
Trichlorofluoromethane	121	129	6	25	70-130
1,2-Dichloroethane	105	105	0	25	70-130
1,1,1-Trichloroethane	109	114	4	25	70-130
Bromodichloromethane	112	114	2	25	70-130
trans-1,3-Dichloropropene	95	95	0	25	70-130
cis-1,3-Dichloropropene	105	108	3	25	70-130
1,1-Dichloropropene	104	107	3	25	70-130
Bromoform	102	103	1	50	70-130
1,1,2,2-Tetrachloroethane	93	92	1	25	70-130
Benzene	97	102	5	25	70-130
Toluene	95	99	4	25	70-130
Ethylbenzene	96	99	3	25	70-130
Chloromethane	107	112	5	50	70-130
Bromomethane	72	64	12	50	70-130
Vinyl chloride	110	118	7	25	70-130
Chloroethane	103	108	5	25	70-130
1,1-Dichloroethene	104	112	7	25	70-130
trans-1,2-Dichloroethene	103	106	3	25	70-130
Trichloroethene	103	109	6	25	70-130
1,2-Dichlorobenzene	92	95	3	25	70-130
1,3-Dichlorobenzene	94	98	4	25	70-130
1,4-Dichlorobenzene	98	100	2	25	70-130
Methyl tert butyl ether	90	86	5	25	70-130
p/m-Xylene	100	101	1	25	70-130
o-Xylene	99	103	4	25	70-130
cis-1,2-Dichloroethene	105	106	1	25	70-130
Dibromomethane	108	113	5	25	70-130
1,2,3-Trichloropropane	98	97	1	25	70-130
Styrene	97	98	1	25	70-130
Dichlorodifluoromethane	119	124	4	50	70-130
Acetone	100	95	5	50	70-130
Carbon disulfide	83	89	7	25	70-130
2-Butanone	98	95	3	50	70-130
4-Methyl-2-pentanone	89	89	0	50	70-130
2-Hexanone	84	80	5	50	70-130
Bromochloromethane	108	110	2	25	70-130
Tetrahydrofuran	92	83	10	25	70-130
2,2-Dichloropropane	79	60	27	25	70-130
1,2-Dibromoethane	96	95	1	25	70-130

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH LCS/LCSD ANALYSIS

Laboratory Job Number: L0510115

Continued

Parameter	LCS %	LCSD %	RPD	RPD Limit	QC Limits
Volatile Organics by MCP 8260B for sample(s) 08 (WG212922-4, WG212922-5)					
1,3-Dichloropropane	100	95	5	25	70-130
1,1,1,2-Tetrachloroethane	104	106	2	25	70-130
Bromobenzene	95	97	2	25	70-130
n-Butylbenzene	84	93	10	25	70-130
sec-Butylbenzene	95	104	9	25	70-130
tert-Butylbenzene	98	103	5	25	70-130
o-Chlorotoluene	98	100	2	25	70-130
p-Chlorotoluene	95	96	1	25	70-130
1,2-Dibromo-3-chloropropane	89	87	2	50	70-130
Hexachlorobutadiene	105	117	11	25	70-130
Isopropylbenzene	98	104	6	25	70-130
p-Isopropyltoluene	91	99	8	25	70-130
Naphthalene	89	84	6	25	70-130
n-Propylbenzene	96	101	5	25	70-130
1,2,3-Trichlorobenzene	90	95	5	25	70-130
1,2,4-Trichlorobenzene	90	91	1	25	70-130
1,3,5-Trimethylbenzene	96	98	2	25	70-130
1,2,4-Trimethylbenzene	94	98	4	25	70-130
Ethyl ether	91	92	1	25	70-130
Isopropyl Ether	94	94	0	25	70-130
Ethyl-Tert-Butyl-Ether	92	94	2	25	70-130
Tertiary-Amyl Methyl Ether	98	96	2	25	70-130
1,4-Dioxane	95	98	3	50	70-130
Surrogate(s)					
1,2-Dichloroethane-d4	105	101	4		70-130
Toluene-d8	97	99	2		70-130
4-Bromofluorobenzene	103	98	5		70-130
Dibromofluoromethane	108	109	1		70-130
Volatile Organics by MCP 8260B for sample(s) 06 (WG213360-1, WG213360-2)					
Methylene chloride	118	120	2	25	70-130
1,1-Dichloroethane	109	113	4	25	70-130
Chloroform	114	115	1	25	70-130
Carbon tetrachloride	103	107	4	25	70-130
1,2-Dichloropropane	113	112	1	25	70-130
Dibromochloromethane	106	106	0	25	70-130
1,1,2-Trichloroethane	112	112	0	25	70-130
Tetrachloroethene	110	107	3	25	70-130
Chlorobenzene	107	109	2	25	70-130
Trichlorofluoromethane	107	107	0	25	70-130
1,2-Dichloroethane	107	112	5	25	70-130
1,1,1-Trichloroethane	105	107	2	25	70-130
Bromodichloromethane	105	110	5	25	70-130
trans-1,3-Dichloropropene	110	112	2	25	70-130
cis-1,3-Dichloropropene	107	107	0	25	70-130
1,1-Dichloropropene	111	110	1	25	70-130

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH LCS/LCSD ANALYSIS

Laboratory Job Number: L0510115

Continued

Parameter	LCS %	LCSD %	RPD	RPD Limit	QC Limits
Volatile Organics by MCP 8260B for sample(s) 06 (WG213360-1, WG213360-2)					
Bromoform	114	112	2	50	70-130
1,1,2,2-Tetrachloroethane	120	118	2	25	70-130
Benzene	112	114	2	25	70-130
Toluene	111	112	1	25	70-130
Ethylbenzene	113	112	1	25	70-130
Chloromethane	114	121	6	50	70-130
Bromomethane	153	149	3	50	70-130
Vinyl chloride	117	125	7	25	70-130
Chloroethane	106	109	3	25	70-130
1,1-Dichloroethene	111	112	1	25	70-130
trans-1,2-Dichloroethene	113	107	5	25	70-130
Trichloroethene	108	108	0	25	70-130
1,2-Dichlorobenzene	114	110	4	25	70-130
1,3-Dichlorobenzene	114	109	4	25	70-130
1,4-Dichlorobenzene	116	109	6	25	70-130
Methyl tert butyl ether	121	123	2	25	70-130
p/m-Xylene	117	114	3	25	70-130
o-Xylene	118	118	0	25	70-130
cis-1,2-Dichloroethene	117	117	0	25	70-130
Dibromomethane	113	117	3	25	70-130
1,2,3-Trichloropropane	115	115	0	25	70-130
Styrene	116	116	0	25	70-130
Dichlorodifluoromethane	123	123	0	50	70-130
Acetone	125	123	2	50	70-130
Carbon disulfide	124	120	3	25	70-130
2-Butanone	129	130	1	50	70-130
4-Methyl-2-pentanone	128	132	3	50	70-130
2-Hexanone	127	123	3	50	70-130
Bromochloromethane	109	112	3	25	70-130
Tetrahydrofuran	118	119	1	25	70-130
2,2-Dichloropropane	107	106	1	25	70-130
1,2-Dibromoethane	114	116	2	25	70-130
1,3-Dichloropropane	108	113	5	25	70-130
1,1,1,2-Tetrachloroethane	112	112	0	25	70-130
Bromobenzene	113	106	6	25	70-130
n-Butylbenzene	118	110	7	25	70-130
sec-Butylbenzene	117	112	4	25	70-130
tert-Butylbenzene	118	113	4	25	70-130
o-Chlorotoluene	110	107	3	25	70-130
p-Chlorotoluene	112	108	4	25	70-130
1,2-Dibromo-3-chloropropane	120	114	5	50	70-130
Hexachlorobutadiene	122	110	10	25	70-130
Isopropylbenzene	121	123	2	25	70-130
p-Isopropyltoluene	123	115	7	25	70-130
Naphthalene	121	115	5	25	70-130
n-Propylbenzene	113	109	4	25	70-130
1,2,3-Trichlorobenzene	124	116	7	25	70-130

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH LCS/LCSD ANALYSIS

Laboratory Job Number: L0510115

Continued

Parameter	LCS %	LCSD %	RPD	RPD Limit	QC Limits
Volatile Organics by MCP 8260B for sample(s) 06 (WG213360-1, WG213360-2)					
1,2,4-Trichlorobenzene	117	109	7	25	70-130
1,3,5-Trimethylbenzene	116	111	4	25	70-130
1,2,4-Trimethylbenzene	115	110	4	25	70-130
Ethyl ether	122	121	1	25	70-130
Isopropyl Ether	115	117	2	25	70-130
Ethyl-Tert-Butyl-Ether	122	124	2	25	70-130
Tertiary-Amyl Methyl Ether	118	120	2	25	70-130
1,4-Dioxane	118	120	2	50	70-130
Surrogate(s)					
1,2-Dichloroethane-d4	100	101	1		70-130
Toluene-d8	99	101	2		70-130
4-Bromofluorobenzene	99	98	1		70-130
Dibromofluoromethane	101	102	1		70-130
Volatile Organics by MCP 8260B for sample(s) 01-05 (WG213385-1, WG213385-2)					
Methylene chloride	95	92	3	25	70-130
1,1-Dichloroethane	95	92	3	25	70-130
Chloroform	93	89	4	25	70-130
Carbon tetrachloride	94	93	1	25	70-130
1,2-Dichloropropane	98	94	4	25	70-130
Dibromochloromethane	93	92	1	25	70-130
1,1,2-Trichloroethane	96	96	0	25	70-130
Tetrachloroethene	93	89	4	25	70-130
Chlorobenzene	94	90	4	25	70-130
1,2-Dichloroethane	98	94	4	25	70-130
1,1,1-Trichloroethane	93	87	7	25	70-130
Bromodichloromethane	104	100	4	25	70-130
trans-1,3-Dichloropropene	85	83	2	25	70-130
cis-1,3-Dichloropropene	91	88	3	25	70-130
Bromoform	97	98	1	50	70-130
1,1,2,2-Tetrachloroethane	98	97	1	25	70-130
Chloromethane	82	77	6	50	70-130
Vinyl chloride	92	87	6	25	70-130
Chloroethane	91	88	3	25	70-130
1,1-Dichloroethene	95	87	9	25	70-130
trans-1,2-Dichloroethene	95	92	3	25	70-130
Trichloroethene	96	93	3	25	70-130
1,2-Dichlorobenzene	94	92	2	25	70-130
1,3-Dichlorobenzene	96	94	2	25	70-130
1,4-Dichlorobenzene	96	91	5	25	70-130
cis-1,2-Dichloroethene	100	97	3	25	70-130
Dichlorodifluoromethane	59	56	5	50	70-130
1,2-Dibromoethane	93	93	0	25	70-130
1,3-Dichloropropane	97	94	3	25	70-130
1,1,1,2-Tetrachloroethane	91	91	0	25	70-130
o-Chlorotoluene	94	91	3	25	70-130

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH LCS/LCSD ANALYSIS

Laboratory Job Number: L0510115

Continued

Parameter	LCS %	LCSD %	RPD	RPD Limit	QC Limits
Volatile Organics by MCP 8260B for sample(s) 01-05 (WG213385-1, WG213385-2)					
p-Chlorotoluene	95	92	3	25	70-130
Hexachlorobutadiene	91	92	1	25	70-130
1,2,4-Trichlorobenzene	94	91	3	25	70-130
Surrogate(s)					
1,2-Dichloroethane-d4	106	103	3		70-130
Toluene-d8	101	100	1		70-130
4-Bromofluorobenzene	92	91	1		70-130
Dibromofluoromethane	102	102	0		70-130
Volatile Petroleum Hydrocarbons for sample(s) 01-04,06-07 (WG212814-1, WG212814-2)					
C5-C8 Aliphatics	101	96	5	25	70-130
C9-C12 Aliphatics	106	99	7	25	70-130
C9-C10 Aromatics	96	93	3	25	70-130
Benzene	101	97	4	25	70-130
Toluene	96	95	2	25	70-130
Ethylbenzene	97	96	1	25	70-130
p/m-Xylene	95	95	1	25	70-130
o-Xylene	93	93	0	25	70-130
Methyl tert butyl ether	104	96	8	25	70-130
Naphthalene	112	107	5	25	70-130
Surrogate(s)					
2,5-Dibromotoluene-PID	111	108	3		70-130
2,5-Dibromotoluene-FID	110	107	3		70-130
Volatile Petroleum Hydrocarbons for sample(s) 05 (WG213087-1, WG213087-2)					
C5-C8 Aliphatics	113	112	1	25	70-130
C9-C12 Aliphatics	101	97	4	25	70-130
C9-C10 Aromatics	90	90	0	25	70-130
Benzene	97	97	0	25	70-130
Toluene	94	94	1	25	70-130
Ethylbenzene	92	92	0	25	70-130
p/m-Xylene	91	91	0	25	70-130
o-Xylene	90	90	0	25	70-130
Methyl tert butyl ether	97	96	1	25	70-130
Naphthalene	108	101	7	25	70-130
Surrogate(s)					
2,5-Dibromotoluene-PID	104	99	5		70-130
2,5-Dibromotoluene-FID	115	111	4		70-130
Extractable Petroleum Hydrocarbons for sample(s) 02-04,06 (WG212865-2, WG212865-3)					
C9-C18 Aliphatics	74	60	21	25	40-140
C19-C36 Aliphatics	82	79	4	25	40-140
C11-C22 Aromatics	78	74	5	25	40-140
Naphthalene	73	63	15	25	40-140

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH LCS/LCSD ANALYSIS

Laboratory Job Number: L0510115

Continued

Parameter	LCS %	LCSD %	RPD	RPD Limit	QC Limits
Extractable Petroleum Hydrocarbons for sample(s) 02-04,06 (WG212865-2, WG212865-3)					
2-Methylnaphthalene	72	62	15	25	40-140
Acenaphthylene	78	70	11	25	40-140
Acenaphthene	78	70	11	25	40-140
Fluorene	89	83	7	25	40-140
Phenanthrene	100	97	3	25	40-140
Anthracene	100	95	5	25	40-140
Fluoranthene	99	96	3	25	40-140
Pyrene	99	96	3	25	40-140
Benzo(a)anthracene	99	96	3	25	40-140
Chrysene	104	102	2	25	40-140
Benzo(b)fluoranthene	102	95	7	25	40-140
Benzo(k)fluoranthene	90	90	0	25	40-140
Benzo(a)pyrene	93	90	3	25	40-140
Indeno(1,2,3-cd)Pyrene	90	88	2	25	40-140
Dibenzo(a,h)anthracene	90	88	2	25	40-140
Benzo(ghi)perylene	92	91	1	25	40-140
Nonane (C9)	55	38	37	25	30-140
Decane (C10)	66	46	36	25	30-140
Dodecane (C12)	74	55	29	25	30-140
Tetradecane (C14)	73	58	23	25	40-140
Hexadecane (C16)	75	70	7	25	40-140
Octadecane (C18)	78	75	4	25	40-140
Nonadecane (C19)	79	76	4	25	40-140
Eicosane (C20)	81	78	4	25	40-140
Docosane (C22)	82	79	4	25	40-140
Tetracosane (C24)	87	83	5	25	40-140
Hexacosane (C26)	80	78	3	25	40-140
Octacosane (C28)	78	76	3	25	40-140
Triacontane (C30)	77	75	3	25	40-140
Hexatriacontane (C36)	82	82	0	25	40-140
Surrogate(s)					
Chloro-Octadecane	73	70	4		40-140
o-Terphenyl	99	101	2		40-140
2-Fluorobiphenyl	86	87	1		40-140
2-Bromonaphthalene	86	86	0		40-140
% Naphthalene Breakthrough	0	0	NC		
% 2-Methylnaphthalene Breakthrough	3	4			
Extractable Petroleum Hydrocarbons for sample(s) 01,05 (WG213421-2, WG213421-3)					
C9-C18 Aliphatics	78	22	112	25	40-140
C19-C36 Aliphatics	90	26	110	25	40-140
C11-C22 Aromatics	82	24	109	25	40-140
Naphthalene	71	19	116	25	40-140
2-Methylnaphthalene	71	18	119	25	40-140
Acenaphthylene	74	19	118	25	40-140
Acenaphthene	76	19	120	25	40-140

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH LCS/LCSD ANALYSIS

Laboratory Job Number: L0510115

Continued

Parameter	LCS %	LCSD %	RPD	RPD Limit	QC Limits
Extractable Petroleum Hydrocarbons for sample(s) 01,05 (WG213421-2, WG213421-3)					
Fluorene	76	19	120	25	40-140
Phenanthrene	81	22	115	25	40-140
Anthracene	82	22	115	25	40-140
Fluoranthene	83	23	113	25	40-140
Pyrene	84	24	111	25	40-140
Benzo(a)anthracene	83	24	110	25	40-140
Chrysene	90	26	110	25	40-140
Benzo(b)fluoranthene	78	23	109	25	40-140
Benzo(k)fluoranthene	78	23	109	25	40-140
Benzo(a)pyrene	82	24	109	25	40-140
Indeno(1,2,3-cd)Pyrene	78	23	109	25	40-140
Dibenzo(a,h)anthracene	79	24	107	25	40-140
Benzo(ghi)perylene	83	25	107	25	40-140
Nonane (C9)	57	16	112	25	30-140
Decane (C10)	70	19	115	25	30-140
Dodecane (C12)	82	23	112	25	30-140
Tetradecane (C14)	80	20	120	25	40-140
Hexadecane (C16)	84	22	117	25	40-140
Octadecane (C18)	86	24	113	25	40-140
Nonadecane (C19)	88	24	114	25	40-140
Eicosane (C20)	90	25	113	25	40-140
Docosane (C22)	94	26	113	25	40-140
Tetracosane (C24)	99	28	112	25	40-140
Hexacosane (C26)	95	27	111	25	40-140
Octacosane (C28)	95	28	109	25	40-140
Triacontane (C30)	94	27	111	25	40-140
Hexatriacontane (C36)	88	25	112	25	40-140
Surrogate(s)					
Chloro-Octadecane	75	57	27		40-140
o-Terphenyl	84	69	20		40-140
2-Fluorobiphenyl	80	76	5		40-140
2-Bromonaphthalene	82	76	8		40-140
% Naphthalene Breakthrough	0	1			
% 2-Methylnaphthalene Breakthrough	0	0	NC		

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0510115

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE	ID
					PREP	ANAL
Blank Analysis for sample(s) 08 (WG212922-6)						
Volatile Organics by MCP 8260B				60 8260B		0906 09:54 RY
Methylene chloride	ND	ug/l	5.0			
1,1-Dichloroethane	ND	ug/l	0.75			
Chloroform	ND	ug/l	0.75			
Carbon tetrachloride	ND	ug/l	0.50			
1,2-Dichloropropane	ND	ug/l	1.8			
Dibromochloromethane	ND	ug/l	0.50			
1,1,2-Trichloroethane	ND	ug/l	0.75			
Tetrachloroethene	ND	ug/l	0.50			
Chlorobenzene	ND	ug/l	0.50			
Trichlorofluoromethane	ND	ug/l	2.5			
1,2-Dichloroethane	ND	ug/l	0.50			
1,1,1-Trichloroethane	ND	ug/l	0.50			
Bromodichloromethane	ND	ug/l	0.50			
trans-1,3-Dichloropropene	ND	ug/l	0.50			
cis-1,3-Dichloropropene	ND	ug/l	0.50			
1,1-Dichloropropene	ND	ug/l	2.5			
Bromoform	ND	ug/l	2.0			
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50			
Benzene	ND	ug/l	0.50			
Toluene	ND	ug/l	0.75			
Ethylbenzene	ND	ug/l	0.50			
Chloromethane	ND	ug/l	2.5			
Bromomethane	ND	ug/l	1.0			
Vinyl chloride	ND	ug/l	1.0			
Chloroethane	ND	ug/l	1.0			
1,1-Dichloroethene	ND	ug/l	0.50			
trans-1,2-Dichloroethene	ND	ug/l	0.75			
Trichloroethene	ND	ug/l	0.50			
1,2-Dichlorobenzene	ND	ug/l	2.5			
1,3-Dichlorobenzene	ND	ug/l	2.5			
1,4-Dichlorobenzene	ND	ug/l	2.5			
Methyl tert butyl ether	ND	ug/l	1.0			
p/m-Xylene	ND	ug/l	1.0			
o-Xylene	ND	ug/l	1.0			
cis-1,2-Dichloroethene	ND	ug/l	0.50			
Dibromomethane	ND	ug/l	5.0			
1,2,3-Trichloropropane	ND	ug/l	5.0			
Styrene	ND	ug/l	1.0			
Dichlorodifluoromethane	ND	ug/l	5.0			
Acetone	ND	ug/l	5.0			
Carbon disulfide	ND	ug/l	5.0			
2-Butanone	ND	ug/l	5.0			
4-Methyl-2-pentanone	ND	ug/l	5.0			
2-Hexanone	ND	ug/l	5.0			
Bromochloromethane	ND	ug/l	2.5			
Tetrahydrofuran	ND	ug/l	10.			

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0510115

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE	ID
					PREP	ANAL
Blank Analysis for sample(s) 08 (WG212922-6)						
Volatile Organics by MCP 8260B cont'd				60 8260B	0906 09:54 RY	
2,2-Dichloropropane	ND	ug/l	2.5			
1,2-Dibromoethane	ND	ug/l	2.0			
1,3-Dichloropropane	ND	ug/l	2.5			
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50			
Bromobenzene	ND	ug/l	2.5			
n-Butylbenzene	ND	ug/l	0.50			
sec-Butylbenzene	ND	ug/l	0.50			
tert-Butylbenzene	ND	ug/l	2.5			
o-Chlorotoluene	ND	ug/l	2.5			
p-Chlorotoluene	ND	ug/l	2.5			
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5			
Hexachlorobutadiene	ND	ug/l	1.0			
Isopropylbenzene	ND	ug/l	0.50			
p-Isopropyltoluene	ND	ug/l	0.50			
Naphthalene	ND	ug/l	2.5			
n-Propylbenzene	ND	ug/l	0.50			
1,2,3-Trichlorobenzene	ND	ug/l	2.5			
1,2,4-Trichlorobenzene	ND	ug/l	2.5			
1,3,5-Trimethylbenzene	ND	ug/l	2.5			
1,2,4-Trimethylbenzene	ND	ug/l	2.5			
Ethyl ether	ND	ug/l	2.5			
Isopropyl Ether	ND	ug/l	2.0			
Ethyl-Tert-Butyl-Ether	ND	ug/l	2.0			
Tertiary-Amyl Methyl Ether	ND	ug/l	2.0			
1,4-Dioxane	ND	ug/l	250			
Surrogate(s)	Recovery		QC Criteria			
1,2-Dichloroethane-d4	106.	%	70-130			
Toluene-d8	99.0	%	70-130			
4-Bromofluorobenzene	99.0	%	70-130			
Dibromofluoromethane	105.	%	70-130			
Blank Analysis for sample(s) 06 (WG213360-3)						
Volatile Organics by MCP 8260B				60 8260B	0908 17:45 SE	
Methylene chloride	ND	ug/l	5.0			
1,1-Dichloroethane	ND	ug/l	0.75			
Chloroform	ND	ug/l	0.75			
Carbon tetrachloride	ND	ug/l	0.50			
1,2-Dichloropropane	ND	ug/l	1.8			
Dibromochloromethane	ND	ug/l	0.50			
1,1,2-Trichloroethane	ND	ug/l	0.75			
Tetrachloroethene	ND	ug/l	0.50			
Chlorobenzene	ND	ug/l	0.50			
Trichlorofluoromethane	ND	ug/l	2.5			
1,2-Dichloroethane	ND	ug/l	0.50			
1,1,1-Trichloroethane	ND	ug/l	0.50			

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0510115

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE	ID
					PREP	ANAL
Blank Analysis for sample(s) 06 (WG213360-3)						
Volatile Organics by MCP 8260B cont'd				60 8260B		0908 17:45 SE
Bromodichloromethane	ND	ug/l	0.50			
trans-1,3-Dichloropropene	ND	ug/l	0.50			
cis-1,3-Dichloropropene	ND	ug/l	0.50			
1,1-Dichloropropene	ND	ug/l	2.5			
Bromoform	ND	ug/l	2.0			
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50			
Benzene	ND	ug/l	0.50			
Toluene	ND	ug/l	0.75			
Ethylbenzene	ND	ug/l	0.50			
Chloromethane	ND	ug/l	2.5			
Bromomethane	ND	ug/l	1.0			
Vinyl chloride	ND	ug/l	1.0			
Chloroethane	ND	ug/l	1.0			
1,1-Dichloroethene	ND	ug/l	0.50			
trans-1,2-Dichloroethene	ND	ug/l	0.75			
Trichloroethene	ND	ug/l	0.50			
1,2-Dichlorobenzene	ND	ug/l	2.5			
1,3-Dichlorobenzene	ND	ug/l	2.5			
1,4-Dichlorobenzene	ND	ug/l	2.5			
Methyl tert butyl ether	ND	ug/l	1.0			
p/m-Xylene	ND	ug/l	1.0			
o-Xylene	ND	ug/l	1.0			
cis-1,2-Dichloroethene	ND	ug/l	0.50			
Dibromomethane	ND	ug/l	5.0			
1,2,3-Trichloropropane	ND	ug/l	5.0			
Styrene	ND	ug/l	1.0			
Dichlorodifluoromethane	ND	ug/l	5.0			
Acetone	ND	ug/l	5.0			
Carbon disulfide	ND	ug/l	5.0			
2-Butanone	ND	ug/l	5.0			
4-Methyl-2-pentanone	ND	ug/l	5.0			
2-Hexanone	ND	ug/l	5.0			
Bromochloromethane	ND	ug/l	2.5			
Tetrahydrofuran	ND	ug/l	10.			
2,2-Dichloropropane	ND	ug/l	2.5			
1,2-Dibromoethane	ND	ug/l	2.0			
1,3-Dichloropropane	ND	ug/l	2.5			
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50			
Bromobenzene	ND	ug/l	2.5			
n-Butylbenzene	ND	ug/l	0.50			
sec-Butylbenzene	ND	ug/l	0.50			
tert-Butylbenzene	ND	ug/l	2.5			
o-Chlorotoluene	ND	ug/l	2.5			
p-Chlorotoluene	ND	ug/l	2.5			
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5			
Hexachlorobutadiene	ND	ug/l	1.0			

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0510115

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE	ID
					PREP	ANAL
Blank Analysis for sample(s) 06 (WG213360-3)						
Volatile Organics by MCP 8260B cont'd				60 8260B		0908 17:45 SE
Isopropylbenzene	ND	ug/l	0.50			
p-Isopropyltoluene	ND	ug/l	0.50			
Naphthalene	ND	ug/l	2.5			
n-Propylbenzene	ND	ug/l	0.50			
1,2,3-Trichlorobenzene	ND	ug/l	2.5			
1,2,4-Trichlorobenzene	ND	ug/l	2.5			
1,3,5-Trimethylbenzene	ND	ug/l	2.5			
1,2,4-Trimethylbenzene	ND	ug/l	2.5			
Ethyl ether	ND	ug/l	2.5			
Isopropyl Ether	ND	ug/l	2.0			
Ethyl-Tert-Butyl-Ether	ND	ug/l	2.0			
Tertiary-Amyl Methyl Ether	ND	ug/l	2.0			
1,4-Dioxane	ND	ug/l	250			
Surrogate(s)	Recovery		QC Criteria			
1,2-Dichloroethane-d4	100.	%	70-130			
Toluene-d8	98.0	%	70-130			
4-Bromofluorobenzene	106.	%	70-130			
Dibromofluoromethane	99.0	%	70-130			
Blank Analysis for sample(s) 01-05 (WG213385-3)						
Volatile Organics by MCP 8260B				60 8260B		0908 18:19 PD
Methylene chloride	ND	ug/l	5.0			
1,1-Dichloroethane	ND	ug/l	0.75			
Chloroform	ND	ug/l	0.75			
Carbon tetrachloride	ND	ug/l	0.50			
1,2-Dichloropropane	ND	ug/l	1.8			
Dibromochloromethane	ND	ug/l	0.50			
1,1,2-Trichloroethane	ND	ug/l	0.75			
Tetrachloroethene	ND	ug/l	0.50			
Chlorobenzene	ND	ug/l	0.50			
1,2-Dichloroethane	ND	ug/l	0.50			
1,1,1-Trichloroethane	ND	ug/l	0.50			
Bromodichloromethane	ND	ug/l	0.50			
trans-1,3-Dichloropropene	ND	ug/l	0.50			
cis-1,3-Dichloropropene	ND	ug/l	0.50			
Bromoform	ND	ug/l	2.0			
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50			
Chloromethane	ND	ug/l	2.5			
Vinyl chloride	ND	ug/l	1.0			
Chloroethane	ND	ug/l	1.0			
1,1-Dichloroethene	ND	ug/l	0.50			
trans-1,2-Dichloroethene	ND	ug/l	0.75			
Trichloroethene	ND	ug/l	0.50			
1,2-Dichlorobenzene	ND	ug/l	2.5			
1,3-Dichlorobenzene	ND	ug/l	2.5			

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0510115

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE	ID
					PREP	ANAL
Blank Analysis for sample(s) 01-05 (WG213385-3)						
Volatile Organics by MCP 8260B cont'd				60 8260B		0908 18:19 PD
1,4-Dichlorobenzene	ND	ug/l	2.5			
cis-1,2-Dichloroethene	ND	ug/l	0.50			
Dichlorodifluoromethane	ND	ug/l	5.0			
1,2-Dibromoethane	ND	ug/l	2.0			
1,3-Dichloropropane	ND	ug/l	2.5			
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50			
o-Chlorotoluene	ND	ug/l	2.5			
p-Chlorotoluene	ND	ug/l	2.5			
Hexachlorobutadiene	ND	ug/l	1.0			
1,2,4-Trichlorobenzene	ND	ug/l	2.5			
Surrogate(s)	Recovery		QC Criteria			
1,2-Dichloroethane-d4	107.	%	70-130			
Toluene-d8	99.0	%	70-130			
4-Bromofluorobenzene	103.	%	70-130			
Dibromofluoromethane	103.	%	70-130			
Blank Analysis for sample(s) 01-04,06-07 (WG212814-4)						
Volatile Petroleum Hydrocarbons				59 VPH-04-1.1		0902 08:23 MM
C5-C8 Aliphatics	ND	ug/l	50.0			
C9-C12 Aliphatics	ND	ug/l	50.0			
C9-C10 Aromatics	ND	ug/l	50.0			
C5-C8 Aliphatics, Adjusted	ND	ug/l	50.0			
C9-C12 Aliphatics, Adjusted	ND	ug/l	50.0			
Benzene	ND	ug/l	2.00			
Toluene	ND	ug/l	2.00			
Ethylbenzene	ND	ug/l	2.00			
p/m-Xylene	ND	ug/l	2.00			
o-Xylene	ND	ug/l	2.00			
Methyl tert butyl ether	ND	ug/l	3.00			
Naphthalene	ND	ug/l	10.0			
Surrogate(s)	Recovery		QC Criteria			
2,5-Dibromotoluene-PID	92.0	%	70-130			
2,5-Dibromotoluene-FID	86.0	%	70-130			
Blank Analysis for sample(s) 05 (WG213087-4)						
Volatile Petroleum Hydrocarbons				59 VPH-04-1.1		0907 08:31 TT
C5-C8 Aliphatics	ND	ug/l	50.0			
C9-C12 Aliphatics	ND	ug/l	50.0			
C9-C10 Aromatics	ND	ug/l	50.0			
C5-C8 Aliphatics, Adjusted	ND	ug/l	50.0			
C9-C12 Aliphatics, Adjusted	ND	ug/l	50.0			
Benzene	ND	ug/l	2.00			
Toluene	ND	ug/l	2.00			
Ethylbenzene	ND	ug/l	2.00			

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0510115

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE	ID
					PREP	ANAL
Blank Analysis for sample(s) 05 (WG213087-4)						
Volatile Petroleum Hydrocarbons cont'd				59 VPH-04-1.1	0907 08:31 TT	
p/m-Xylene	ND	ug/l	2.00			
o-Xylene	ND	ug/l	2.00			
Methyl tert butyl ether	ND	ug/l	3.00			
Naphthalene	ND	ug/l	10.0			
Surrogate(s)	Recovery		QC Criteria			
2,5-Dibromotoluene-PID	95.0	%	70-130			
2,5-Dibromotoluene-FID	107.	%	70-130			
Blank Analysis for sample(s) 02-04,06 (WG212865-1)						
Extractable Petroleum Hydrocarbons				61 EPH-04-1	0902 18:45 0908 14:22 BN	
C9-C18 Aliphatics	ND	ug/l	100.			
C19-C36 Aliphatics	ND	ug/l	100.			
C11-C22 Aromatics	ND	ug/l	100.			
C11-C22 Aromatics, Adjusted	ND	ug/l	100.			
Naphthalene	ND	ug/l	10.0			
2-Methylnaphthalene	ND	ug/l	10.0			
Acenaphthylene	ND	ug/l	10.0			
Acenaphthene	ND	ug/l	10.0			
Fluorene	ND	ug/l	10.0			
Phenanthrene	ND	ug/l	10.0			
Anthracene	ND	ug/l	10.0			
Fluoranthene	ND	ug/l	10.0			
Pyrene	ND	ug/l	10.0			
Benzo(a)anthracene	ND	ug/l	10.0			
Chrysene	ND	ug/l	10.0			
Benzo(b)fluoranthene	ND	ug/l	10.0			
Benzo(k)fluoranthene	ND	ug/l	10.0			
Benzo(a)pyrene	ND	ug/l	10.0			
Indeno(1,2,3-cd)Pyrene	ND	ug/l	10.0			
Dibenzo(a,h)anthracene	ND	ug/l	10.0			
Benzo(ghi)perylene	ND	ug/l	10.0			
Surrogate(s)	Recovery		QC Criteria			
Chloro-Octadecane	56.0	%	40-140			
o-Terphenyl	69.0	%	40-140			
2-Fluorobiphenyl	89.0	%	40-140			
2-Bromonaphthalene	87.0	%	40-140			
Blank Analysis for sample(s) 01,05 (WG213421-1)						
Extractable Petroleum Hydrocarbons				61 EPH-04-1	0908 23:15 0909 09:45 BN	
C9-C18 Aliphatics	ND	ug/l	100.			
C19-C36 Aliphatics	ND	ug/l	100.			
C11-C22 Aromatics	ND	ug/l	100.			
C11-C22 Aromatics, Adjusted	ND	ug/l	100.			
Naphthalene	ND	ug/l	10.0			

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0510115

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE	ID
					PREP	ANAL
Blank Analysis for sample(s) 01,05 (WG213421-1)						
Extractable Petroleum Hydrocarbons cont'd				61 EPH-04-1	0908 23:15	0909 09:45 BN
2-Methylnaphthalene	ND	ug/l	10.0			
Acenaphthylene	ND	ug/l	10.0			
Acenaphthene	ND	ug/l	10.0			
Fluorene	ND	ug/l	10.0			
Phenanthrene	ND	ug/l	10.0			
Anthracene	ND	ug/l	10.0			
Fluoranthene	ND	ug/l	10.0			
Pyrene	ND	ug/l	10.0			
Benzo(a)anthracene	ND	ug/l	10.0			
Chrysene	ND	ug/l	10.0			
Benzo(b)fluoranthene	ND	ug/l	10.0			
Benzo(k)fluoranthene	ND	ug/l	10.0			
Benzo(a)pyrene	ND	ug/l	10.0			
Indeno(1,2,3-cd)Pyrene	ND	ug/l	10.0			
Dibenzo(a,h)anthracene	ND	ug/l	10.0			
Benzo(ghi)perylene	ND	ug/l	10.0			
Surrogate(s)	Recovery		QC Criteria			
Chloro-Octadecane	74.0	%	40-140			
o-Terphenyl	79.0	%	40-140			
2-Fluorobiphenyl	89.0	%	40-140			
2-Bromonaphthalene	89.0	%	40-140			

ALPHA ANALYTICAL LABORATORIES
ADDENDUM I

REFERENCES

59. Method for the Determination of Volatile Petroleum Hydrocarbons (VPH).
Massachusetts Department of Environmental Protection, DEA/ORS/BWSC. May 2004,
Revision 1.1.
60. Quality Assurance and Quality Control Requirements and Performance Standards
for SW-846 Methods. MADEP BWSC. WSC-CAM-IIA (Revision 4), WSC-CAM-V C
(Revision 2), WSC-CAM-IIIA (Revision 5). May 2004.
61. Method for the Determination of Extractable Petroleum Hydrocarbons (EPH).
Massachusetts Department of Environmental Protection, DEA/ORS/BWSC. May 2004,
Revision 1.1.

GLOSSARY OF TERMS AND SYMBOLS

REF Reference number in which test method may be found.
METHOD Method number by which analysis was performed.
ID Initials of the analyst.
ND Not detected in comparison to the reported detection limit.
NI Not Ignitable.
ug/cart Micrograms per Cartridge.

LIMITATION OF LIABILITIES

Alpha Analytical, Inc. performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical, Inc., shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical, Inc. be held liable for any incidental consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical, Inc.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding times and splitting of samples in the field.

ALPHA ANALYTICAL LABORATORIES
LOGIN SPECIFIC INFORMATION

Laboratory Job Number: L0510115

Were project specific reporting limits specified?

YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp	Pres	Seal	Analysis
L0510115-01A	Vial HCl preserved	A	N/A	0.8 C	Y	Absent	MCP-8260-04
L0510115-01B	Vial HCl preserved	A	N/A	0.8 C	Y	Absent	MCP-8260-04
L0510115-01C	Vial HCl preserved	A	N/A	0.8 C	Y	Absent	VPH-DELUX-04
L0510115-01D	Vial HCl preserved	A	N/A	0.8 C	Y	Absent	VPH-DELUX-04
L0510115-01E	Amber 1000ml HCl preserved	A	< 2	0.8 C	Y	Absent	EPH-DELUX-04
L0510115-01F	Amber 1000ml HCl preserved	A	< 2	0.8 C	Y	Absent	EPH-DELUX-04
L0510115-02A	Vial HCl preserved	A	N/A	0.8 C	Y	Absent	MCP-8260-04
L0510115-02B	Vial HCl preserved	A	N/A	0.8 C	Y	Absent	MCP-8260-04
L0510115-02C	Vial HCl preserved	A	N/A	0.8 C	Y	Absent	VPH-DELUX-04
L0510115-02D	Vial HCl preserved	A	N/A	0.8 C	Y	Absent	VPH-DELUX-04
L0510115-02E	Amber 1000ml HCl preserved	A	< 2	0.8 C	Y	Absent	EPH-DELUX-04
L0510115-02F	Amber 1000ml HCl preserved	A	< 2	0.8 C	Y	Absent	EPH-DELUX-04
L0510115-03A	Vial HCl preserved	A	N/A	0.8 C	Y	Absent	MCP-8260-04
L0510115-03B	Vial HCl preserved	A	N/A	0.8 C	Y	Absent	MCP-8260-04
L0510115-03C	Vial HCl preserved	A	N/A	0.8 C	Y	Absent	VPH-DELUX-04
L0510115-03D	Vial HCl preserved	A	N/A	0.8 C	Y	Absent	VPH-DELUX-04
L0510115-03E	Amber 1000ml HCl preserved	A	< 2	0.8 C	Y	Absent	EPH-DELUX-04
L0510115-03F	Amber 1000ml HCl preserved	A	< 2	0.8 C	Y	Absent	EPH-DELUX-04
L0510115-04A	Vial HCl preserved	A	N/A	0.8 C	Y	Absent	MCP-8260-04
L0510115-04B	Vial HCl preserved	A	N/A	0.8 C	Y	Absent	MCP-8260-04
L0510115-04C	Vial HCl preserved	A	N/A	0.8 C	Y	Absent	VPH-DELUX-04
L0510115-04D	Vial HCl preserved	A	N/A	0.8 C	Y	Absent	VPH-DELUX-04
L0510115-04E	Amber 1000ml HCl preserved	A	< 2	0.8 C	Y	Absent	EPH-DELUX-04
L0510115-04F	Amber 1000ml HCl preserved	A	< 2	0.8 C	Y	Absent	EPH-DELUX-04
L0510115-05A	Vial HCl preserved	A	N/A	0.8 C	Y	Absent	MCP-8260-04
L0510115-05B	Vial HCl preserved	A	N/A	0.8 C	Y	Absent	MCP-8260-04
L0510115-05C	Vial HCl preserved	A	N/A	0.8 C	Y	Absent	VPH-DELUX-04
L0510115-05D	Vial HCl preserved	A	N/A	0.8 C	Y	Absent	VPH-DELUX-04
L0510115-05E	Amber 1000ml HCl preserved	A	< 2	0.8 C	Y	Absent	EPH-DELUX-04
L0510115-05F	Amber 1000ml HCl preserved	A	< 2	0.8 C	Y	Absent	EPH-DELUX-04
L0510115-06A	Vial HCl preserved	A	N/A	0.8 C	Y	Absent	MCP-8260-04
L0510115-06B	Vial HCl preserved	A	N/A	0.8 C	Y	Absent	MCP-8260-04
L0510115-06C	Vial HCl preserved	A	N/A	0.8 C	Y	Absent	VPH-DELUX-04
L0510115-06D	Vial HCl preserved	A	N/A	0.8 C	Y	Absent	VPH-DELUX-04
L0510115-06E	Amber 1000ml HCl preserved	A	< 2	0.8 C	Y	Absent	EPH-DELUX-04
L0510115-06F	Amber 1000ml HCl preserved	A	< 2	0.8 C	Y	Absent	EPH-DELUX-04
L0510115-07A	Vial HCl preserved	A	N/A	0.8 C	Y	Absent	VPH-DELUX-04
L0510115-08A	Vial HCl preserved	A	N/A	0.8 C	Y	Absent	MCP-8260-04

ALPHA ANALYTICAL LABORATORIES
LOGIN SPECIFIC INFORMATION

Laboratory Job Number: L0510115

Continued

Container ID	Container Type	Cooler pH	Temp	Pres Seal	Analysis
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Container Comments

Container ID Comments



CHAIN OF CUSTODY

PAGE 1 OF 1

Eight Walkup Drive Westborough, MA 01581
TEL: 508-898-9220 FAX: 508-898-9193

Client Information

Client: Sinborn, Head & Associates

Address: 2 Technology Park Dr

Westford, MA 01886

Phone: 978-392-0900

Fax: 978-392-0987

Email: mheil@sinbornhead.com

☐ These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

Project Information

Project Name: Koff-Melrose MA

Project Location: Melrose, MA

Project #: 2564.00

Project Manager: Matt Heil

Alpha Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved)

Date Due: 9.9.05 Time:

Date Rec'd in Lab: 9-1-05

Report Information - Data Deliverables

☐ FAX ☐ EMAIL

☒ ADDEX ☐ Add'l Deliverables

Regulatory Requirements/Report Limits

State Fed Program: MA MCP Criteria: SH-2 & SH-3

MCP PRESUMPTIVE CERTAINTY - THESE QUESTIONS MUST BE ANSWERED

☐ Yes ☒ No Are MCP Analytical Methods Required?

☐ Yes ☒ No Are Drinking Water Samples Submitted?

☒ Yes ☐ No Have you met minimum field QC requirements?

ANALYSIS
VPH Deluxe
SPH Deluxe
8260B (chlorine)

SAMPLE HANDLING

Filtration

☐ Done

☒ Not needed

☐ Lab to do

☐ Preservation

☐ Lab to do

(Please specify below)

Sample Specific Comments

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials										
		Date	Time												
LAST0115-01	SH-B	8/31/05	13:00	SHW	ESK	X	X	X							
02	SH-9		16:25												
03	SH-10		16:42												
04	SH-11		15:25												
05	SH-12		14:00												
06	SH-13		17:05												
07+08	Trip Blank														

QUESTIONS ABOVE MUST BE ANSWERED FOR PRESUMPTIVE CERTAINTY

IS YOUR PROJECT MCP?

Relinquished By:

Date/Time

Received By:

Date/Time

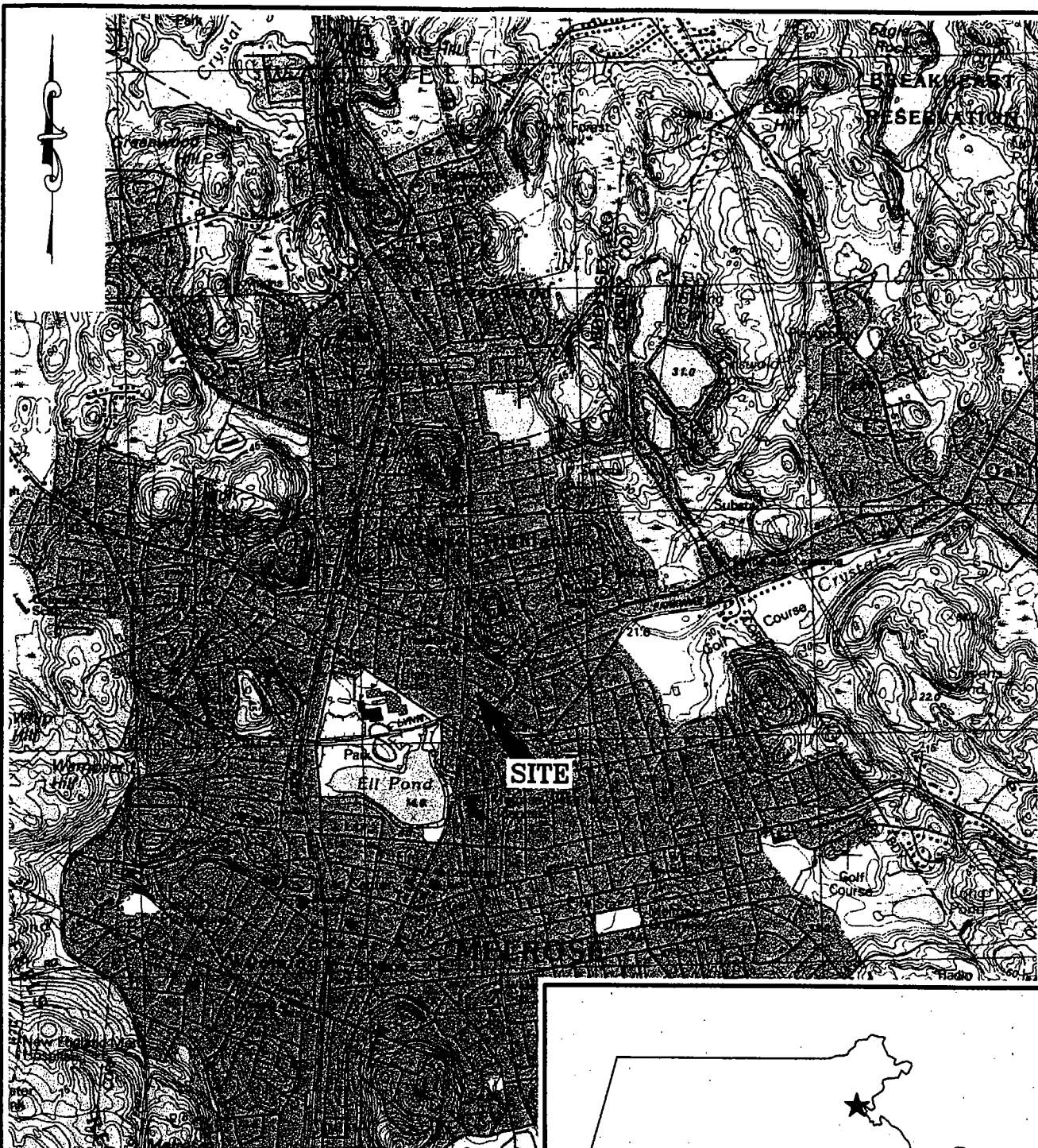
Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms. See reverse side.

WACES: Q:\USGS-MAPS\MASS\MELROSE\4237910.UF
Q:\USGS-MAPS\MASS\MELROSE\4237911.UF
Q:\USGS-MAPS\MASS\MELROSE\4241810.UF
Q:\USGS-MAPS\MASS\MELROSE\4241811.UF

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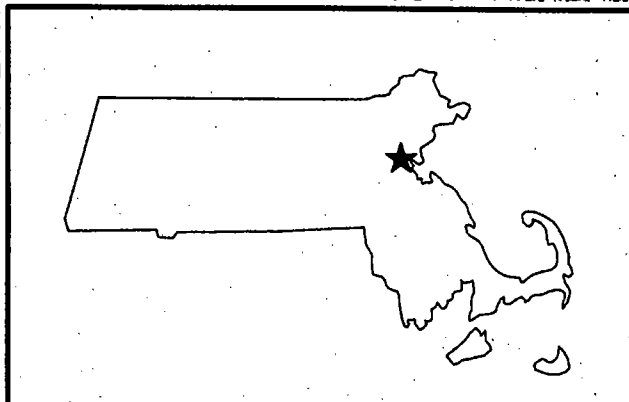
XREFS:

FILE: Q:\WESTFORD\2564.00\dwg\Reports\080806_LOCUS.dwg
LAYOUT: LOCUS
CTB FILE: SHA STANDARD.CTB
PLOT DATE: 8-9-06



NOTES:

BASE MAP TAKEN FROM MASSGIS WEBSITE
7.5 MINUTE USGS QUADRANGLE MAP (s):
BOSTON NORTH, MASSACHUSETTS, REV:1985



WALGREENS
887, 897 & 905-911 MAIN STREET
MELROSE, MASSACHUSETTS

**PHASE I ENVIRONMENTAL SITE ASSESSMENT
WITH LIMITED SUBSURFACE INVESTIGATION
LOCUS PLAN**

SHA
Sanborn, Head & Associates
Consulting Engineers & Scientists

SCALE: 1: 25,000	DRAWN BY: RWH	FILE: 2564.00
DATE: AUG 06	CHECKED BY: ESK	FIGURE NO. 1