

ALPHA ANALYTICAL LABORATORIES

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

CERTIFICATE OF ANALYSIS

Client: ERM-New England Laboratory Job Number: L0413849
Address: 399 Boylston Street
6th Floor Date Received: 10-DEC-2004
Boston, MA 02116
Attn: Jeremy Picard Date Reported: 17-DEC-2004
Project Number: 13606 Delivery Method: Alpha
Site: RAYTHEON WAYLAND

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? NA

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? YES
- 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: Scott McLean
This document electronically signed

ALPHA ANALYTICAL LABORATORIES

Laboratory Job Number: L0413849
Date Reported: 17-DEC-2004

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0413849-01	MW-211	WAYLAND, MA
L0413849-02	MW-403	WAYLAND, MA
L0413849-03	MW-214	WAYLAND, MA
L0413849-04	FD-005	WAYLAND, MA
L0413849-05	MW-213	WAYLAND, MA
L0413849-06	MW-33M	WAYLAND, MA

ALPHA ANALYTICAL LABORATORIES
NARRATIVE REPORT

Laboratory Job Number: L0413849

MCP Related Narratives

Report Submission

In reference to question F, at the client's request, the samples were analyzed only for the compounds specified on the chain of custody.

Volatile Organics

L0413849-02 has elevated limits of detection due to the 5x dilution required by the elevated concentrations of target compounds in the sample.

Metals

L0413789-02, -03, and -04 were re-analyzed on dilutions (200x, 5x, and 5x, respectively) in order to quantitate the Sodium within the range of the calibration. The result is reported as a greater than value for the compound that exceeded the calibration on the initial analysis. The re-analysis was performed only for the compound which exceeded the range of the calibration.

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: L0413849-01 Date Collected: 09-DEC-2004 09:55
 MW-211 Date Received : 10-DEC-2004
 Sample Matrix: WATER Date Reported : 17-DEC-2004
 Condition of Sample: Satisfactory Field Prep: Field Filtered
 Number & Type of Containers: 2-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Chloride	11.	mg/l	1.0	1 9251		1211 15:48	ED
Dissolved Metals by MCP 6000/7000 series				60 6010B			
Sodium, Dissolved	15.	mg/l	2.0	60 6010B	1213 18:00	1214 16:23	RW
Volatile Organics by MCP 8260B				60 8260B		1214 20:12	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				

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

ALPHA ANALYTICAL LABORATORIES
 CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0413849-01
 MW-211

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B continued				60 8260B	1214 20:12		RY
Hexachlorobutadiene	ND	ug/l	1.0				
1,2,4-Trichlorobenzene	ND	ug/l	2.5				
Surrogate (s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	105.	%		70-130			
Toluene-d8	102.	%		70-130			
4-Bromofluorobenzene	107.	%		70-130			
Dibromofluoromethane	97.0	%		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: L0413849-02

Date Collected: 09-DEC-2004 12:30

MW-403

Date Received : 10-DEC-2004

Sample Matrix:

WATER

Date Reported : 17-DEC-2004

Condition of Sample: Satisfactory

Field Prep: Field Filtered

Number & Type of Containers: 2-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Chloride	320	mg/l	10.	1 9251		1211 16:21	ED
Dissolved Metals by MCP 6000/7000 series				60 6010B			
Sodium, Dissolved	>20	mg/l	2	60 6010B	1213 18:00	1214 16:35	RW
Sodium, Dissolved	170	mg/l	40.	60 6010B	1213 18:00	1214 18:24	RW
Volatile Organics by MCP 8260B				60 8260B		1214 20:48	RY
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	9.7	ug/l	2.5				
Chlorobenzene	ND	ug/l	2.5				
Trichlorofluoromethane	ND	ug/l	12.				
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				
1,1-Dichloropropene	ND	ug/l	12.				
Bromoform	ND	ug/l	10.				
1,1,2,2-Tetrachloroethane	ND	ug/l	2.5				
Benzene	ND	ug/l	2.5				
Toluene	ND	ug/l	3.8				
Ethylbenzene	ND	ug/l	2.5				
Chloromethane	ND	ug/l	12.				
Bromomethane	ND	ug/l	5.0				
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	280	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.				

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0413849-02
MW-403

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B continued				60 8260B	1214 20:48 RY		
Methyl tert butyl ether	ND	ug/l	5.0				
p/m-Xylene	ND	ug/l	2.5				
o-Xylene	ND	ug/l	2.5				
cis-1,2-Dichloroethene	10.	ug/l	2.5				
Dibromomethane	ND	ug/l	25.				
1,2,3-Trichloropropane	ND	ug/l	25.				
Styrene	ND	ug/l	2.5				
Dichlorodifluoromethane	ND	ug/l	25.				
Acetone	ND	ug/l	25.				
Carbon disulfide	ND	ug/l	25.				
2-Butanone	ND	ug/l	25.				
4-Methyl-2-pentanone	ND	ug/l	25.				
2-Hexanone	ND	ug/l	25.				
Bromochloromethane	ND	ug/l	12.				
Tetrahydrofuran	ND	ug/l	50.				
2,2-Dichloropropane	ND	ug/l	12.				
1,2-Dibromoethane	ND	ug/l	10.				
1,3-Dichloropropane	ND	ug/l	12.				
1,1,1,2-Tetrachloroethane	ND	ug/l	2.5				
Bromobenzene	ND	ug/l	12.				
n-Butylbenzene	ND	ug/l	2.5				
sec-Butylbenzene	ND	ug/l	2.5				
tert-Butylbenzene	ND	ug/l	12.				
o-Chlorotoluene	ND	ug/l	12.				
p-Chlorotoluene	ND	ug/l	12.				
1,2-Dibromo-3-chloropropane	ND	ug/l	12.				
Hexachlorobutadiene	ND	ug/l	5.0				
Isopropylbenzene	ND	ug/l	2.5				
p-Isopropyltoluene	ND	ug/l	2.5				
Naphthalene	ND	ug/l	12.				
n-Propylbenzene	ND	ug/l	2.5				
1,2,3-Trichlorobenzene	ND	ug/l	12.				
1,2,4-Trichlorobenzene	ND	ug/l	12.				
1,3,5-Trimethylbenzene	ND	ug/l	12.				
1,2,4-Trimethylbenzene	ND	ug/l	12.				
Ethyl ether	ND	ug/l	12.				
Isopropyl Ether	ND	ug/l	10.				
Ethyl-Tert-Butyl-Ether	ND	ug/l	10.				
Tertiary-Amyl Methyl Ether	ND	ug/l	10.				
1,4-Dioxane	ND	ug/l	1200				
Surrogate(s)	Recovery		QC Criteria				
1,2-Dichloroethane-d4	107.	%	70-130				
Toluene-d8	101.	%	70-130				
4-Bromofluorobenzene	109.	%	70-130				
Dibromofluoromethane	97.0	%	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: L0413849-03	Date Collected: 09-DEC-2004 14:30
Sample Matrix: MW-214	Date Received : 10-DEC-2004
Sample Matrix: WATER	Date Reported : 17-DEC-2004
Condition of Sample: Satisfactory	Field Prep: Field Filtered
Number & Type of Containers: 2-Plastic,2-Vial	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Chloride	110	mg/l	5.0	1 9251		1211 16:38	ED
Dissolved Metals by MCP 6000/7000 series				60 6010B			
Sodium, Dissolved	>20	mg/l	2	60 6010B	1213 18:00	1214 16:38	RW
Sodium, Dissolved	45.	mg/l	10.	60 6010B	1213 18:00	1214 18:26	RW
Volatile Organics by MCP 8260B				60 8260B		1215 21:10	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	0.85	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.75				
Trichloroethene	52.	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				

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0413849-03
MW-214

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B continued				60 8260B	1215 21:10		SE
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	108.	%		70-130			
Toluene-d8	101.	%		70-130			
4-Bromofluorobenzene	109.	%		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**

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

Laboratory Sample Number: L0413849-04	Date Collected: 09-DEC-2004 00:00
Sample Matrix: WATER	Date Received : 10-DEC-2004
Condition of Sample: Satisfactory	Date Reported : 17-DEC-2004
Number & Type of Containers: 2-Plastic,2-Vial	Field Prep: Field Filtered

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Chloride	110	mg/l	5.0	1 9251		1211 16:39	ED
Dissolved Metals by MCP 6000/7000 series				60 6010B			
Sodium, Dissolved	>20	mg/l	2	60 6010B	1213 18:00	1214 16:41	RW
Sodium, Dissolved	45.	mg/l	10.	60 6010B	1213 18:00	1214 18:29	RW
Volatile Organics by MCP 8260B				60 8260B		1215 21:45	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				
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	0.99	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.75				
Trichloroethene	53.	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	2.7	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				

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0413849-04
FD-005

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B continued				60 8260B	1215 21:45		SE
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	109.	%		70-130			
Toluene-d8	102.	%		70-130			
4-Bromofluorobenzene	105.	%		70-130			
Dibromofluoromethane	104.	%		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: L0413849-05	Date Collected: 09-DEC-2004 15:50
Sample Matrix: MW-213	Date Received : 10-DEC-2004
Sample Matrix: WATER	Date Reported : 17-DEC-2004
Condition of Sample: Satisfactory	Field Prep: None
Number & Type of Containers: 2-Vial	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B				60 8260B	1214 22:34		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	1.7	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: L0413849-05
 MW-213

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B continued				60 8260B	1214	22:34	RY
Surrogate (s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	108.	%		70-130			
Toluene-d8	103.	%		70-130			
4-Bromofluorobenzene	109.	%		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

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

Laboratory Sample Number: L0413849-06	Date Collected: 09-DEC-2004 17:32
Sample Matrix: MW-33M	Date Received : 10-DEC-2004
Sample Matrix: WATER	Date Reported : 17-DEC-2004
Condition of Sample: Satisfactory	Field Prep: Field Filtered
Number & Type of Containers: 2-Plastic,2-Vial	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Chloride	60.	mg/l	1.0	1 9251		1211 15:52	ED
Dissolved Metals by MCP 6000/7000 series				60 6010B			
Sodium, Dissolved	14.	mg/l	2.0	60 6010B		1213 18:00 1214 16:43	RW
Volatile Organics by MCP 8260B				60 8260B		1214 23:09	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	9.3	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	1.7	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				

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

ALPHA ANALYTICAL LABORATORIES
 CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0413849-06
 MW-33M

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B continued				60 8260B	1214 23:09		RY
Hexachlorobutadiene	ND	ug/l	1.0				
1,2,4-Trichlorobenzene	ND	ug/l	2.5				
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	108.	%		70-130			
Toluene-d8	103.	%		70-130			
4-Bromofluorobenzene	108.	%		70-130			
Dibromofluoromethane	96.0	%		70-130			

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

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS

Laboratory Job Number: L0413849

Parameter	Value 1	Value 2	Units	RPD	RPD Limits
Chloride	96.	95.	mg/l	1	7

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0413849

Parameter	% Recovery	QC Criteria
Chloride LCS for sample(s) 01-04,06 (WG189153)		
Chloride	93	84-110
Chloride SPIKE for sample(s) 01-04,06 (L0413851-01, WG189153)		
Chloride	90	58-140

ALPHA ANALYTICAL LABORATORIES
 QUALITY ASSURANCE BATCH LCS/LCSD ANALYSIS

Laboratory Job Number: L0413849

Parameter	LCS %	LCSD %	RPD	RPD Limit	QC Limits
Dissolved Metals by MCP 6000/7000 series for sample(s) 01-04,06 (WG189238-2, WG189238)					
Sodium, Dissolved	100	100	0	20	75-125
Volatile Organics by MCP 8260B for sample(s) 01-02,05-06 (WG189457-1, WG189457)					
Methylene chloride	94	93	1	25	70-130
1,1-Dichloroethane	89	98	10	25	70-130
Chloroform	94	92	2	25	70-130
Carbon tetrachloride	98	97	1	25	70-130
1,2-Dichloropropane	94	94	0	25	70-130
Dibromochloromethane	87	86	1	25	70-130
1,1,2-Trichloroethane	93	94	1	25	70-130
Tetrachloroethene	95	92	3	25	70-130
Chlorobenzene	94	91	3	25	70-130
Trichlorofluoromethane	106	99	7	25	70-130
1,2-Dichloroethane	98	97	1	25	70-130
1,1,1-Trichloroethane	103	101	2	25	70-130
Bromodichloromethane	92	90	2	25	70-130
trans-1,3-Dichloropropene	94	96	2	25	70-130
cis-1,3-Dichloropropene	91	91	0	25	70-130
1,1-Dichloropropene	100	98	2	25	70-130
Bromoform	82	82	0	50	70-130
1,1,2,2-Tetrachloroethane	98	94	4	25	70-130
Benzene	98	96	2	25	70-130
Toluene	100	97	3	25	70-130
Ethylbenzene	100	97	3	25	70-130
Chloromethane	101	100	1	50	70-130
Bromomethane	82	88	7	50	70-130
Vinyl chloride	106	107	1	25	70-130
Chloroethane	105	100	5	25	70-130
1,1-Dichloroethene	100	97	3	25	70-130
trans-1,2-Dichloroethene	99	97	2	25	70-130
Trichloroethene	92	92	0	25	70-130
1,2-Dichlorobenzene	92	87	6	25	70-130
1,3-Dichlorobenzene	92	88	4	25	70-130
1,4-Dichlorobenzene	90	87	3	25	70-130
Methyl tert butyl ether	98	100	2	25	70-130
p/m-Xylene	97	95	2	25	70-130
o-Xylene	96	94	2	25	70-130
cis-1,2-Dichloroethene	98	97	1	25	70-130
Dibromomethane	97	95	2	25	70-130
1,2,3-Trichloropropane	94	94	0	25	70-130
Styrene	95	93	2	25	70-130
Dichlorodifluoromethane	108	103	5	50	70-130
Acetone	99	89	11	50	70-130
Carbon disulfide	100	97	3	25	70-130
2-Butanone	93	87	7	50	70-130
4-Methyl-2-pentanone	87	82	6	50	70-130
2-Hexanone	100	94	6	50	70-130
Bromochloromethane	98	94	4	25	70-130

ALPHA ANALYTICAL LABORATORIES
 QUALITY ASSURANCE BATCH LCS/LCSD ANALYSIS

Laboratory Job Number: L0413849

Continued

Parameter	LCS %	LCSD %	RPD	RPD Limit	QC Limits
Volatile Organics by MCP 8260B for sample(s) 01-02,05-06 (WG189457-1, WG189457)					
Tetrahydrofuran	104	100	4	25	70-130
2,2-Dichloropropane	99	112	12	25	70-130
1,2-Dibromoethane	92	91	1	25	70-130
1,3-Dichloropropane	94	95	1	25	70-130
1,1,1,2-Tetrachloroethane	90	89	1	25	70-130
Bromobenzene	91	87	4	25	70-130
n-Butylbenzene	104	98	6	25	70-130
sec-Butylbenzene	102	98	4	25	70-130
tert-Butylbenzene	101	96	5	25	70-130
o-Chlorotoluene	100	96	4	25	70-130
p-Chlorotoluene	99	96	3	25	70-130
1,2-Dibromo-3-chloropropane	90	90	0	50	70-130
Hexachlorobutadiene	98	86	13	25	70-130
Isopropylbenzene	98	95	3	25	70-130
p-Isopropyltoluene	99	93	6	25	70-130
Naphthalene	80	80	0	25	70-130
n-Propylbenzene	102	99	3	25	70-130
1,2,3-Trichlorobenzene	79	79	0	25	70-130
1,2,4-Trichlorobenzene	82	79	4	25	70-130
1,3,5-Trimethylbenzene	101	96	5	25	70-130
1,2,4-Trimethylbenzene	99	94	5	25	70-130
Ethyl ether	91	92	1	25	70-130
Isopropyl Ether	88	89	1	25	70-130
Ethyl-Tert-Butyl-Ether	86	86	0	25	70-130
Tertiary-Amyl Methyl Ether	84	85	1	25	70-130
1,4-Dioxane	108	107	1	50	70-130
Surrogate (s)					
1,2-Dichloroethane-d4	105	102	3		70-130
Toluene-d8	103	103	0		70-130
4-Bromofluorobenzene	106	103	3		70-130
Dibromofluoromethane	99	101	2		70-130
Volatile Organics by MCP 8260B for sample(s) 03-04 (WG189572-1, WG189572)					
Methylene chloride	87	88	1	25	70-130
1,1-Dichloroethane	92	93	1	25	70-130
Chloroform	88	89	1	25	70-130
Carbon tetrachloride	94	96	2	25	70-130
1,2-Dichloropropane	89	92	3	25	70-130
Dibromochloromethane	89	93	4	25	70-130
1,1,2-Trichloroethane	84	88	5	25	70-130
Tetrachloroethene	91	87	4	25	70-130
Chlorobenzene	91	91	0	25	70-130
Trichlorofluoromethane	92	95	3	25	70-130
1,2-Dichloroethane	94	94	0	25	70-130
1,1,1-Trichloroethane	91	89	2	25	70-130
Bromodichloromethane	88	88	0	25	70-130

ALPHA ANALYTICAL LABORATORIES
 QUALITY ASSURANCE BATCH LCS/LCSD ANALYSIS

Laboratory Job Number: L0413849

Continued

Parameter	LCS %	LCSD %	RPD	RPD Limit	QC Limits
Volatile Organics by MCP 8260E for sample(s) 03-04 (WG189572-1, WG189572)					
trans-1,3-Dichloropropene	88	90	2	25	70-130
cis-1,3-Dichloropropene	90	88	2	25	70-130
1,1-Dichloropropene	92	91	1	25	70-130
Bromoform	82	90	9	50	70-130
1,1,2,2-Tetrachloroethane	85	89	5	25	70-130
Benzene	89	90	1	25	70-130
Toluene	89	89	0	25	70-130
Ethylbenzene	91	90	1	25	70-130
Chloromethane	81	81	0	50	70-130
Bromomethane	83	95	13	50	70-130
Vinyl chloride	87	82	6	25	70-130
Chloroethane	86	82	5	25	70-130
1,1-Dichloroethene	87	88	1	25	70-130
trans-1,2-Dichloroethene	89	90	1	25	70-130
Trichloroethene	92	89	3	25	70-130
1,2-Dichlorobenzene	87	88	1	25	70-130
1,3-Dichlorobenzene	89	90	1	25	70-130
1,4-Dichlorobenzene	88	90	2	25	70-130
Methyl tert butyl ether	88	89	1	25	70-130
p/m-Xylene	91	90	1	25	70-130
o-Xylene	90	90	0	25	70-130
cis-1,2-Dichloroethene	88	84	5	25	70-130
Dibromomethane	86	88	2	25	70-130
1,2,3-Trichloropropane	88	92	4	25	70-130
Styrene	94	93	1	25	70-130
Dichlorodifluoromethane	72	70	3	50	70-130
Acetone	78	85	9	50	70-130
Carbon disulfide	87	83	5	25	70-130
2-Butanone	88	90	2	50	70-130
4-Methyl-2-pentanone	88	90	2	50	70-130
2-Hexanone	103	103	0	50	70-130
Bromochloromethane	85	86	1	25	70-130
Tetrahydrofuran	93	95	2	25	70-130
2,2-Dichloropropane	86	87	1	25	70-130
1,2-Dibromoethane	85	90	6	25	70-130
1,3-Dichloropropane	88	92	4	25	70-130
1,1,1,2-Tetrachloroethane	92	93	1	25	70-130
Bromobenzene	87	90	3	25	70-130
n-Butylbenzene	91	89	2	25	70-130
sec-Butylbenzene	88	88	0	25	70-130
tert-Butylbenzene	88	87	1	25	70-130
o-Chlorotoluene	90	90	0	25	70-130
p-Chlorotoluene	90	88	2	25	70-130
1,2-Dibromo-3-chloropropane	93	90	3	50	70-130
Hexachlorobutadiene	85	87	2	25	70-130
Isopropylbenzene	94	92	2	25	70-130
p-Isopropyltoluene	91	89	2	25	70-130

ALPHA ANALYTICAL LABORATORIES
 QUALITY ASSURANCE BATCH LCS/LCSD ANALYSIS

Laboratory Job Number: L0413849

Continued

Parameter	LCS %	LCSD %	RPD	RPD Limit	QC Limits
Volatile Organics by MCP 8260B for sample(s) 03-04 (WG189572-1, WG189572)					
Naphthalene	88	89	1	25	70-130
n-Propylbenzene	90	90	0	25	70-130
1,2,3-Trichlorobenzene	89	89	0	25	70-130
1,2,4-Trichlorobenzene	85	89	5	25	70-130
1,3,5-Trimethylbenzene	91	91	0	25	70-130
1,2,4-Trimethylbenzene	90	92	2	25	70-130
Ethyl ether	92	89	3	25	70-130
Isopropyl Ether	88	92	4	25	70-130
Ethyl-Tert-Butyl-Ether	87	86	1	25	70-130
Tertiary-Amyl Methyl Ether	84	86	2	25	70-130
1,4-Dioxane	90	92	2	50	70-130
Surrogate(s)					
1,2-Dichloroethane-d4	103	105	2		70-130
Toluene-d8	101	100	1		70-130
4-Bromofluorobenzene	101	103	2		70-130
Dibromofluoromethane	103	104	1		70-130

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0413849

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 01-04,06 (WG189153-1)							
Chloride	ND	mg/l	1.0	1 9251		1211 16:01	ED
Blank Analysis for sample(s) 01-04,06 (WG189238-1)							
Dissolved Metals by MCP 6000/7000 series 60 6010B							
Sodium, Dissolved	ND	mg/l	2.0	60 6010B		1213 18:00 1214 16:08	RW
Blank Analysis for sample(s) 01-02,05-06 (WG189457-3)							
Volatile Organics by MCP 8260B 60 8260B 1214 17:51 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	0.50				
o-Xylene	ND	ug/l	0.50				
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	0.50				

ALPHA ANALYTICAL LABORATORIES
 QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0413849

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
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Blank Analysis for sample(s) 01-02,05-06 (WG189457-3)						
Volatile Organics by MCP 8260B continued				60 8260B	1214 17:51	RY

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			
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	102.	%	70-130
Toluene-d8	103.	%	70-130
4-Bromofluorobenzene	107.	%	70-130
Dibromofluoromethane	95.0	%	70-130

Blank Analysis for sample(s) 03-04 (WG189572-3)						
Volatile Organics by MCP 8260B				60 8260B	1215 18:10	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			

ALPHA ANALYTICAL LABORATORIES
 QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0413849

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 03-04 (WG189572-3)							
Volatile Organics by MCP 8260B continued							
				60 8260B		1215 18:10 SE	
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	0.50				
o-Xylene	ND	ug/l	0.50				
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	0.50				
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				

ALPHA ANALYTICAL LABORATORIES
 QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0413849

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 03-04 (WG189572-3)							
Volatile Organics by MCP 8260B continued							
				60 8260B		1215 18:10 SE	
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	107.	%	70-130				
Toluene-d8	103.	%	70-130				
4-Bromofluorobenzene	106.	%	70-130				
Dibromofluoromethane	100.	%	70-130				

ALPHA ANALYTICAL LABORATORIES
ADDENDUM I

REFERENCES

1. Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.
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.

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.

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: L0413849

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent
C	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp	Pres	Seal	Analysis
L0413849-01A	Vial HCl preserved	A	N/A	1.5 C	Y	Absent	MCP-8260-04
L0413849-01B	Vial HCl preserved	A	N/A	1.5 C	Y	Absent	MCP-8260-04
L0413849-01C	Plastic 250ml HNO3 preserved	A	<2	1.5 C	Y	Absent	MCP-NA-6010S
L0413849-01D	Plastic 250ml unpreserved	A	=7	1.5 C	Y	Absent	CL-9251
L0413849-02A	Vial HCl preserved	B	N/A	1.0 C	Y	Absent	MCP-8260-04
L0413849-02B	Vial HCl preserved	A	N/A	1.5 C	Y	Absent	MCP-8260-04
L0413849-02C	Plastic 250ml HNO3 preserved	A	<2	1.5 C	Y	Absent	MCP-NA-6010S
L0413849-02D	Plastic 250ml unpreserved	A	=7	1.5 C	Y	Absent	CL-9251
L0413849-03A	Vial HCl preserved	A	N/A	1.5 C	Y	Absent	MCP-8260-04
L0413849-03B	Vial HCl preserved	A	N/A	1.5 C	Y	Absent	MCP-8260-04
L0413849-03C	Plastic 250ml HNO3 preserved	A	<2	1.5 C	Y	Absent	MCP-NA-6010S
L0413849-03D	Plastic 250ml unpreserved	A	=7	1.5 C	Y	Absent	CL-9251
L0413849-04A	Vial HCl preserved	A	N/A	1.5 C	Y	Absent	MCP-8260-04
L0413849-04B	Vial HCl preserved	A	N/A	1.5 C	Y	Absent	MCP-8260-04
L0413849-04C	Plastic 250ml HNO3 preserved	A	<2	1.5 C	Y	Absent	MCP-NA-6010S
L0413849-04D	Plastic 250ml unpreserved	A	=7	1.5 C	Y	Absent	CL-9251
L0413849-05A	Vial Na2S2O3 preserved	A	N/A	1.5 C	Y	Absent	MCP-8260-04
L0413849-05B	Vial Na2S2O3 preserved	A	N/A	1.5 C	Y	Absent	MCP-8260-04
L0413849-06A	Vial HCl preserved	A	N/A	1.5 C	Y	Absent	MCP-8260-04
L0413849-06B	Vial HCl preserved	A	N/A	1.5 C	Y	Absent	MCP-8260-04
L0413849-06C	Plastic 250ml HNO3 preserved	A	<2	1.5 C	Y	Absent	MCP-NA-6010S
L0413849-06D	Plastic 250ml unpreserved	A	=7	1.5 C	Y	Absent	CL-9251

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: *ERM*

Address: *349 Boylston St. Boston, MA*

Phone: *617-646-7800*

Fax:

Email:

These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

*Mat is field filtered
 Other preservative = ThioSulfate*

Project Information

Project Name: *Former Raytheon Facility*

Project Location: *Weyland, MA*

Project #: *13606*

Project Manager: *J. Picard*

ALPHA Quote #:

Turn-Around Time

Standard RUSH (only confirmed if pre-approved!)

Date Due: *12/17* Time:

Date Rec'd in Lab:

12/10

ALPHA Job #:

60413849

Report Information - Data Deliverables

FAX EMAIL

ADDEX Add'l Deliverables

Billing Information

Same as Client info PO #:

Regulatory/Requirements/Report Limits

State/Fed Program

MCP

Criteria

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

*8021 B chlorinated
 Dissolved Na
 Chloride
 8260 VOCs
 8021 B chlorinated*

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										
<i>3849.1</i>	<i>MW-211</i>	<i>12/9/04</i>	<i>0855</i>	<i>JDF GW</i>	<i>JDF</i>	<i>2</i>	<i>1</i>	<i>1</i>					<i>4</i>
<i>2</i>	<i>MW-403</i>	<i>12/9/04</i>	<i>1830</i>	<i>GW</i>	<i>JDF</i>	<i>1</i>	<i>1</i>	<i>2</i>					<i>4</i>
<i>3</i>	<i>MW-214</i>	<i>12/9/04</i>	<i>1450</i>	<i>GW</i>	<i>JDF</i>	<i>2</i>	<i>1</i>	<i>1</i>					<i>4</i>
<i>4</i>	<i>FD-005</i>	<i>12/10/04</i>	<i>2400</i>	<i>GW</i>	<i>JDF</i>	<i>2</i>	<i>1</i>	<i>1</i>					<i>4</i>
<i>5</i>	<i>MW-213</i>	<i>12/10/04</i>	<i>1550</i>	<i>GW</i>	<i>JDF</i>			<i>2</i>					<i>2</i>
<i>6</i>	<i>MW-33 W</i>	<i>12/9/04</i>	<i>1732</i>	<i>GW</i>	<i>JDF</i>	<i>2</i>	<i>1</i>	<i>1</i>					<i>4</i>

QUESTIONS ABOVE MUST BE ANSWERED FOR PRESUMPTIVE CERTAINTY

Relinquished By:	Date/Time	Container Type	Preservative	Received By:	Date/Time
<i>[Signature]</i>	<i>12/10/04 1430</i>	<i>V</i>	<i>PP</i>	<i>[Signature]</i>	<i>12/16/04 14</i>
		<i>V</i>	<i>PP</i>		
		<i>B</i>	<i>CABD</i>		

IS YOUR PROJECT MCP ?

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.