

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: L0503944
Address: 399 Boylston Street
6th Floor
Boston, MA 02116 Date Received: 13-APR-2005
Attn: Jeremy Picard Date Reported: 19-APR-2005
Project Number: 28047 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? 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: James Todaro
This document electronically signed

ALPHA ANALYTICAL LABORATORIES

Laboratory Job Number: L0503944
Date Reported: 19-APR-2005

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0503944-01	MW-206M-20050412-01	WAYLAND, MA
L0503944-02	MW-206S-20050412-01	WAYLAND, MA
L0503944-03	DUP-013-20050412-01	WAYLAND, MA
L0503944-04	MW-206D-20050412-01	WAYLAND, MA
L0503944-05	MW-307-20050412-01	WAYLAND, MA
L0503944-06	MW-41-20050412-01	WAYLAND, MA
L0503944-07	DUP-014-20050412-01	WAYLAND, MA

ALPHA ANALYTICAL LABORATORIES
NARRATIVE REPORT

Laboratory Job Number: L0503944

Report Submission

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

Volatile Organics

In reference to question E:

The WG199416-5 LCSD has a low recovery for chloromethane, a difficult analyte.

The LCS/LCSD % RPD for 1,1-dichloroethane is above acceptable limits.

**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: L0503944-01	Date Collected: 12-APR-2005 09:02
MW-206M-20050412-01	Date Received : 13-APR-2005
Sample Matrix: WATER	Date Reported : 19-APR-2005
Condition of Sample: Satisfactory	Field Prep: None
Number & Type of Containers: 2-Vial	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
Volatile Organics by MCP 8260B				60 8260B	0415 13:29 SE	
Methylene chloride	ND	ug/l	5.0			
1,1-Dichloroethane	2.4	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			
Benzene	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	4.1	ug/l	0.50			
trans-1,2-Dichloroethene	ND	ug/l	0.75			
Trichloroethene	23.	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	2.0	ug/l	1.0			
cis-1,2-Dichloroethene	0.79	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: L0503944-01
MW-206M-20050412-01

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B continued				60 8260B	0415 13:29		SE
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	114.	%		70-130			
Toluene-d8	98.0	%		70-130			
4-Bromofluorobenzene	106.	%		70-130			
Dibromofluoromethane	109.	%		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: L0503944-02	Date Collected: 12-APR-2005 10:50
MW-206S-20050412-01	Date Received : 13-APR-2005
Sample Matrix: WATER	Date Reported : 19-APR-2005
Condition of Sample: Satisfactory	Field Prep: None
Number & Type of Containers: 2-Vial	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
Volatile Organics by MCP 8260B				60 8260B	0415 22:17 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			
Benzene	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			
Methyl tert butyl ether	ND	ug/l	1.0			
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: L0503944-02
MW-206S-20050412-01

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B continued				60 8260B	0415 22:17		RY
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	106.	%		70-130			
Toluene-d8	98.0	%		70-130			
4-Bromofluorobenzene	102.	%		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**

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

Laboratory Sample Number: L0503944-03	Date Collected: 12-APR-2005 00:00
DUP-013-20050412-01	Date Received : 13-APR-2005
Sample Matrix: WATER	Date Reported : 19-APR-2005
Condition of Sample: Satisfactory	Field Prep: None
Number & Type of Containers: 2-Vial	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
Volatile Organics by MCP 8260B				60 8260B	0415 22:52 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			
Benzene	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			
Methyl tert butyl ether	ND	ug/l	1.0			
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: L0503944-03
DUP-013-20050412-01

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B continued				60 8260B	0415 22:52		RY
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	100.	%		70-130			
Toluene-d8	94.0	%		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**

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

Laboratory Sample Number:	L0503944-04	Date Collected:	12-APR-2005 12:10
	MW-206D-20050412-01	Date Received :	13-APR-2005
Sample Matrix:	WATER	Date Reported :	19-APR-2005
Condition of Sample:	Satisfactory	Field Prep:	None
Number & Type of Containers:	2-Vial		

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
Volatile Organics by MCP 8260B				60 8260B	0415 23:28	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			
Benzene	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	30.	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			
cis-1,2-Dichloroethene	3.2	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: L0503944-04
MW-206D-20050412-01

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B continued				60 8260B	0415 23:28 RY		
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	105.	%		70-130			
Toluene-d8	99.0	%		70-130			
4-Bromofluorobenzene	102.	%		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**

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

Laboratory Sample Number: L0503944-05	Date Collected: 12-APR-2005 14:12
MW-307-20050412-01	Date Received : 13-APR-2005
Sample Matrix: WATER	Date Reported : 19-APR-2005
Condition of Sample: Satisfactory	Field Prep: Field Filtered
Number & Type of Containers: 1-Plastic,2-Vial	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
Dissolved Metals by MCP 6000/7000 series				60 6010B		
Arsenic, Dissolved	0.016	mg/l	0.005	60 6010B	0415 17:00 0418 16:19	RW
Volatile Organics by MCP 8260B				60 8260B	0416 00:03	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: L0503944-05
MW-307-20050412-01

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B continued				60 8260B	0416 00:03		RY
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	105.	%		70-130			
Toluene-d8	97.0	%		70-130			
4-Bromofluorobenzene	102.	%		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**

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

Laboratory Sample Number: L0503944-06	Date Collected: 12-APR-2005 15:30
MW-41-20050412-01	Date Received : 13-APR-2005
Sample Matrix: WATER	Date Reported : 19-APR-2005
Condition of Sample: Satisfactory	Field Prep: Field Filtered
Number & Type of Containers: 1-Plastic,2-Vial	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
Dissolved Metals by MCP 6000/7000 series				60 6010B		
Arsenic, Dissolved	ND	mg/l	0.005	60 6010B	0415 17:00 0418 16:21	RW
Volatile Organics by MCP 8260B				60 8260B	0416 00:39	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: L0503944-06
MW-41-20050412-01

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	ID ANAL
Volatile Organics by MCP 8260B continued				60 8260B	0416 00:39 RY	
Surrogate(s)	Recovery			QC Criteria		
1,2-Dichloroethane-d4	105.	%		70-130		
Toluene-d8	98.0	%		70-130		
4-Bromofluorobenzene	101.	%		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: L0503944-07
DUP-014-20050412-01

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B continued				60 8260B	0416 01:14		RY
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	103.	%		70-130			
Toluene-d8	97.0	%		70-130			
4-Bromofluorobenzene	95.0	%		70-130			
Dibromofluoromethane	99.0	%		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: L0503944

Parameter	LCS %	LCSD %	RPD	RPD Limit	QC Limits
Dissolved Metals by MCP 6000/7000 series for sample(s) 05-07 (WG199322-2, WG199322-3)					
Arsenic, Dissolved	98	98	0	20	75-125
Volatile Organics by MCP 8260B for sample(s) 02-07 (WG199416-4, WG199416-5)					
Methylene chloride	100	98	2	25	70-130
1,1-Dichloroethane	84	111	28	25	70-130
Chloroform	109	104	5	25	70-130
Carbon tetrachloride	112	115	3	25	70-130
1,2-Dichloropropane	102	98	4	25	70-130
Dibromochloromethane	98	96	2	25	70-130
1,1,2-Trichloroethane	96	93	3	25	70-130
Tetrachloroethene	104	105	1	25	70-130
Chlorobenzene	101	99	2	25	70-130
1,2-Dichloroethane	107	103	4	25	70-130
1,1,1-Trichloroethane	111	112	1	25	70-130
Bromodichloromethane	100	99	1	25	70-130
trans-1,3-Dichloropropene	91	94	3	25	70-130
cis-1,3-Dichloropropene	96	98	2	25	70-130
Bromoform	101	101	0	50	70-130
1,1,2,2-Tetrachloroethane	97	100	3	25	70-130
Benzene	105	104	1	25	70-130
Chloromethane	91	60	41	50	70-130
Vinyl chloride	103	80	25	25	70-130
Chloroethane	98	88	11	25	70-130
1,1-Dichloroethene	104	97	7	25	70-130
trans-1,2-Dichloroethene	106	98	8	25	70-130
Trichloroethene	103	101	2	25	70-130
1,2-Dichlorobenzene	98	104	6	25	70-130
1,3-Dichlorobenzene	100	104	4	25	70-130
1,4-Dichlorobenzene	98	103	5	25	70-130
Methyl tert butyl ether	84	101	18	25	70-130
cis-1,2-Dichloroethene	104	97	7	25	70-130
Dichlorodifluoromethane	86	88	2	50	70-130
1,2-Dibromoethane	98	98	0	25	70-130
1,3-Dichloropropane	94	92	2	25	70-130
1,1,1,2-Tetrachloroethane	100	102	2	25	70-130
o-Chlorotoluene	99	103	4	25	70-130
p-Chlorotoluene	97	102	5	25	70-130
Hexachlorobutadiene	100	102	2	25	70-130
1,2,4-Trichlorobenzene	104	110	6	25	70-130
Surrogate(s)					
1,2-Dichloroethane-d4	110	100	10		70-130
Toluene-d8	96	98	2		70-130
4-Bromofluorobenzene	101	102	1		70-130
Dibromofluoromethane	105	99	6		70-130

ALPHA ANALYTICAL LABORATORIES
 QUALITY ASSURANCE BATCH LCS/LCSD ANALYSIS

Laboratory Job Number: L0503944

Continued

Parameter	LCS %	LCSD %	RPD	RPD Limit	QC Limits
Volatile Organics by MCP 8260B for sample(s) 01 (WG199222-4, WG199222-5)					
Methylene chloride	103	103	0	25	70-130
1,1-Dichloroethane	90	93	3	25	70-130
Chloroform	108	108	0	25	70-130
Carbon tetrachloride	120	116	3	25	70-130
1,2-Dichloropropane	100	100	0	25	70-130
Dibromochloromethane	94	93	1	25	70-130
1,1,2-Trichloroethane	89	92	3	25	70-130
Tetrachloroethene	106	105	1	25	70-130
Chlorobenzene	100	101	1	25	70-130
Trichlorofluoromethane	115	114	1	25	70-130
1,2-Dichloroethane	106	106	0	25	70-130
1,1,1-Trichloroethane	115	115	0	25	70-130
Bromodichloromethane	100	97	3	25	70-130
trans-1,3-Dichloropropene	91	89	2	25	70-130
cis-1,3-Dichloropropene	94	96	2	25	70-130
1,1-Dichloropropene	110	108	2	25	70-130
Bromoform	97	94	3	50	70-130
1,1,2,2-Tetrachloroethane	96	93	3	25	70-130
Benzene	107	107	0	25	70-130
Toluene	100	100	0	25	70-130
Ethylbenzene	103	101	2	25	70-130
Chloromethane	108	103	5	50	70-130
Bromomethane	98	97	1	50	70-130
Vinyl chloride	116	113	3	25	70-130
Chloroethane	100	103	3	25	70-130
1,1-Dichloroethene	110	107	3	25	70-130
trans-1,2-Dichloroethene	108	106	2	25	70-130
Trichloroethene	104	104	0	25	70-130
1,2-Dichlorobenzene	104	100	4	25	70-130
1,3-Dichlorobenzene	107	103	4	25	70-130
1,4-Dichlorobenzene	103	101	2	25	70-130
Methyl tert butyl ether	87	88	1	25	70-130
p/m-Xylene	101	99	2	25	70-130
o-Xylene	104	102	2	25	70-130
cis-1,2-Dichloroethene	106	104	2	25	70-130
Dibromomethane	99	101	2	25	70-130
1,2,3-Trichloropropane	101	99	2	25	70-130
Styrene	102	101	1	25	70-130
Dichlorodifluoromethane	93	92	1	50	70-130
Acetone	92	89	3	50	70-130
Carbon disulfide	106	104	2	25	70-130
2-Butanone	81	80	1	50	70-130
4-Methyl-2-pentanone	83	78	6	50	70-130
2-Hexanone	97	94	3	50	70-130
Bromochloromethane	110	107	3	25	70-130
Tetrahydrofuran	86	87	1	25	70-130
2,2-Dichloropropane	90	95	5	25	70-130

ALPHA ANALYTICAL LABORATORIES
 QUALITY ASSURANCE BATCH LCS/LCSD ANALYSIS

Laboratory Job Number: L0503944

Continued

Parameter	LCS %	LCSD %	RPD	RPD Limit	QC Limits
Volatile Organics by MCP 8260B for sample(s) 01 (WG199222-4, WG199222-5)					
1,2-Dibromoethane	95	94	1	25	70-130
1,3-Dichloropropane	88	92	4	25	70-130
1,1,1,2-Tetrachloroethane	102	100	2	25	70-130
Bromobenzene	115	110	4	25	70-130
n-Butylbenzene	104	98	6	25	70-130
sec-Butylbenzene	104	96	8	25	70-130
tert-Butylbenzene	102	101	1	25	70-130
o-Chlorotoluene	105	101	4	25	70-130
p-Chlorotoluene	104	99	5	25	70-130
1,2-Dibromo-3-chloropropane	86	93	8	50	70-130
Hexachlorobutadiene	100	101	1	25	70-130
Isopropylbenzene	105	102	3	25	70-130
p-Isopropyltoluene	105	99	6	25	70-130
Naphthalene	98	100	2	25	70-130
n-Propylbenzene	103	100	3	25	70-130
1,2,3-Trichlorobenzene	107	107	0	25	70-130
1,2,4-Trichlorobenzene	108	105	3	25	70-130
1,3,5-Trimethylbenzene	104	101	3	25	70-130
1,2,4-Trimethylbenzene	104	99	5	25	70-130
Ethyl ether	94	93	1	25	70-130
Isopropyl Ether	94	95	1	25	70-130
Ethyl-Tert-Butyl-Ether	90	91	1	25	70-130
Tertiary-Amyl Methyl Ether	88	89	1	25	70-130
1,4-Dioxane	82	84	2	50	70-130
Surrogate(s)					
1,2-Dichloroethane-d4	103	100	3		70-130
Toluene-d8	100	99	1		70-130
4-Bromofluorobenzene	103	100	3		70-130
Dibromofluoromethane	100	100	0		70-130

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0503944

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
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Blank Analysis for sample(s) 05-07 (WG199322-1)						
Dissolved Metals by MCP 6000/7000 series				60 6010B		

Arsenic, Dissolved	ND	mg/l	0.005	60 6010B	0415 17:00	0418 16:10 RW
--------------------	----	------	-------	----------	------------	---------------

Blank Analysis for sample(s) 01 (WG199222-6)						
Volatile Organics by MCP 8260B				60 8260B		0415 10:26 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			
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			

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0503944

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 01 (WG199222-6)							
Volatile Organics by MCP 8260B continued				60 8260B	0415 10:26		SE
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	104.	%	70-130				
Toluene-d8	98.0	%	70-130				
4-Bromofluorobenzene	102.	%	70-130				
Dibromofluoromethane	96.0	%	70-130				
Blank Analysis for sample(s) 02-07 (WG199416-6)							
Volatile Organics by MCP 8260B				60 8260B	0415 16:56		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				

ALPHA ANALYTICAL LABORATORIES
 QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0503944

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 02-07 (WG199416-6)							
Volatile Organics by MCP 8260B continued				60 8260B	0415 16:56 RY		
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				
Benzene	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				
Methyl tert butyl ether	ND	ug/l	1.0				
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	99.0	%		70-130			
Toluene-d8	96.0	%		70-130			
4-Bromofluorobenzene	102.	%		70-130			
Dibromofluoromethane	93.0	%		70-130			

ALPHA ANALYTICAL LABORATORIES
ADDENDUM I

REFERENCES

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.
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: L0503944

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
L0503944-01A	Vial HCl preserved	A	N/A	2.7 C	Y	Absent	MCP-8260-04
L0503944-01B	Vial HCl preserved	A	N/A	2.7 C	Y	Absent	MCP-8260-04
L0503944-02A	Vial HCl preserved	A	N/A	2.7 C	Y	Absent	MCP-8260-04
L0503944-02B	Vial HCl preserved	A	N/A	2.7 C	Y	Absent	MCP-8260-04
L0503944-03A	Vial HCl preserved	A	N/A	2.7 C	Y	Absent	MCP-8260-04
L0503944-03B	Vial HCl preserved	A	N/A	2.7 C	Y	Absent	MCP-8260-04
L0503944-04A	Vial HCl preserved	A	N/A	2.7 C	Y	Absent	MCP-8260-04
L0503944-04B	Vial HCl preserved	A	N/A	2.7 C	Y	Absent	MCP-8260-04
L0503944-05A	Vial HCl preserved	A	N/A	2.7 C	Y	Absent	MCP-8260-04
L0503944-05B	Vial HCl preserved	A	N/A	2.7 C	Y	Absent	MCP-8260-04
L0503944-05C	Plastic 250ml HNO3 preserved	A	<2	2.7 C	Y	Absent	MCP-AS-6010S
L0503944-06A	Vial HCl preserved	A	N/A	2.7 C	Y	Absent	MCP-8260-04
L0503944-06B	Vial HCl preserved	A	N/A	2.7 C	Y	Absent	MCP-8260-04
L0503944-06C	Plastic 250ml HNO3 preserved	A	<2	2.7 C	Y	Absent	MCP-AS-6010S
L0503944-07A	Vial HCl preserved	A	N/A	2.7 C	Y	Absent	MCP-8260-04
L0503944-07B	Vial HCl preserved	A	N/A	2.7 C	Y	Absent	MCP-8260-04
L0503944-07C	Plastic 250ml HNO3 preserved	A	<2	2.7 C	Y	Absent	MCP-AS-6010S

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: **EMA**

Address: **399 Bayliff St
Boston, MA 02116**

Phone: **617-646-7800**

Email:

Project Information

Project Name: **Former Bayliff Facility**

Project Location: **Weyland, MA**

Project #: **28047**

Project Manager: **Picard**

ALPHA Quote #:

Turn-Around Time

Standard

RUSH (only confirmed if pre-approved)

Date Due: **4/13/05**

Time:

Other Project Specific Requirements/Comments/Detection Limits: **MCA**

Date Rec'd In Lab: **4/13/05**

ALPHA Job #: **20703944**

Report Information - Data Deliverables

FAX

EMAIL

ADEX

Add'l Deliverables

Billing Information

Same as Client Info

PO #:

Regulatory Requirements/Report Limits

State/Fed Program

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?

SAMPLE HANDLING

- Filtration
- Done
- Not needed
- Lab to do
- Preservation
- Lab to do

Sample Specific Comments

ANALYSIS
VOCs (6021B, 6010B, 6011B)
Dis. AS by 6010B
CVOCs by 6021B

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	Z	V	P	C	Received By:	Date/Time	Container Type	Preservative	Date/Time	Sample Specific Comments	
		Date	Time													
3944-1	MW-206M-20050412-01	4/12/05	0902	GW	JDF	2						V	P			
2	MW-206S-20050412-01	4/12/05	1050	GW	JDF	2						V	P			
3	DUP-013-20050412-01	4/12/05	2400	GW	JDF	2						B	C			
4	MW-206D-20050412-01	4/12/05	1210	GW	JDF	2										
5	MW-307-20050412-01	4/12/05	1412	GW	JDF	2										
6	MW-41-20050412-01	4/12/05	1530	GW	JDF	2										
7	DUP-014-20050412-01	4/12/05	2400	GW	JDF	2										

QUESTIONS ABOVE MUST BE ANSWERED FOR PRESUMPTIVE CERTAINTY

IS YOUR PROJECT MCP?

NO

Relinquished By:

[Signature]
REAR

Date/Time

4/13/05 15:11

Received By:

[Signature]
4/13/05 15:11

Date/Time

4/13/05 15:11

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.