

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: ERM-New England Laboratory Job Number: L0503948
Address: 399 Boylston Street
6th Floor
Boston, MA 02116 Date Received: 13-APR-2005
Attn: Jeremy Picard Date Reported: 20-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? 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: James Todaro
This document electronically signed

ALPHA ANALYTICAL LABORATORIES

Laboratory Job Number: L0503948
Date Reported: 20-APR-2005

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0503948-01	MW-266MB-20050412-01	WAYLAND, MA
L0503948-02	DUP-003-20050412-01	WAYLAND, MA
L0503948-03	MW-1D-20050412-01	WAYLAND, MA
L0503948-04	MW-1M-20050412-01	WAYLAND, MA
L0503948-05	DUP-002-20050412-01	WAYLAND, MA
L0503948-06	MW-1S-20050412-01	WAYLAND, MA
L0503948-07	MW-269MB-20050412-01	WAYLAND, MA

ALPHA ANALYTICAL LABORATORIES
NARRATIVE REPORT

Laboratory Job Number: L0503948

Report Submission

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

Volatile Organics

L0503948-01 and -02 has elevated limits of detection due to the 10x dilutions required by the elevated concentrations of target compounds in the sample.

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: L0503948-01 Date Collected: 12-APR-2005 10:00
MW-266MB-20050412-01 Date Received: 13-APR-2005
Sample Matrix: WATER Date Reported: 20-APR-2005
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		0417 20:17	TT
Methylene chloride	ND	ug/l	50.				
1,1-Dichloroethane	ND	ug/l	7.5				
Chloroform	ND	ug/l	7.5				
Carbon tetrachloride	ND	ug/l	5.0				
1,2-Dichloropropane	ND	ug/l	18.				
Dibromochloromethane	ND	ug/l	5.0				
1,1,2-Trichloroethane	ND	ug/l	7.5				
Tetrachloroethene	55.	ug/l	5.0				
Chlorobenzene	ND	ug/l	5.0				
1,2-Dichloroethane	ND	ug/l	5.0				
1,1,1-Trichloroethane	ND	ug/l	5.0				
Bromodichloromethane	ND	ug/l	5.0				
trans-1,3-Dichloropropene	ND	ug/l	5.0				
cis-1,3-Dichloropropene	ND	ug/l	5.0				
Bromoform	ND	ug/l	20.				
1,1,2,2-Tetrachloroethane	ND	ug/l	5.0				
Chloromethane	ND	ug/l	25.				
Vinyl chloride	28.	ug/l	10.				
Chloroethane	ND	ug/l	10.				
1,1-Dichloroethene	ND	ug/l	5.0				
trans-1,2-Dichloroethene	ND	ug/l	7.5				
Trichloroethene	380	ug/l	5.0				
1,2-Dichlorobenzene	ND	ug/l	25.				
1,3-Dichlorobenzene	ND	ug/l	25.				
1,4-Dichlorobenzene	ND	ug/l	25.				
cis-1,2-Dichloroethene	360	ug/l	5.0				
Dichlorodifluoromethane	ND	ug/l	50.				
1,2-Dibromoethane	ND	ug/l	20.				
1,3-Dichloropropane	ND	ug/l	25.				
1,1,1,2-Tetrachloroethane	ND	ug/l	5.0				
o-Chlorotoluene	ND	ug/l	25.				
p-Chlorotoluene	ND	ug/l	25.				
Hexachlorobutadiene	ND	ug/l	10.				
1,2,4-Trichlorobenzene	ND	ug/l	25.				

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

**ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0503948-01
MW-266MB-20050412-01

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B continued				60 8260B	0417 20:17		TT
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	101.	%		70-130			
Toluene-d8	101.	%		70-130			
4-Bromofluorobenzene	104.	%		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: L0503948-02	Date Collected: 12-APR-2005 00:00
DUP-003-20050412-01	Date Received : 13-APR-2005
Sample Matrix: WATER	Date Reported : 20-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	0418 17:02 TT	
Methylene chloride	ND	ug/l	50.			
1,1-Dichloroethane	ND	ug/l	7.5			
Chloroform	ND	ug/l	7.5			
Carbon tetrachloride	ND	ug/l	5.0			
1,2-Dichloropropane	ND	ug/l	18.			
Dibromochloromethane	ND	ug/l	5.0			
1,1,2-Trichloroethane	ND	ug/l	7.5			
Tetrachloroethene	58.	ug/l	5.0			
Chlorobenzene	ND	ug/l	5.0			
1,2-Dichloroethane	ND	ug/l	5.0			
1,1,1-Trichloroethane	ND	ug/l	5.0			
Bromodichloromethane	ND	ug/l	5.0			
trans-1,3-Dichloropropene	ND	ug/l	5.0			
cis-1,3-Dichloropropene	ND	ug/l	5.0			
Bromoform	ND	ug/l	20.			
1,1,2,2-Tetrachloroethane	ND	ug/l	5.0			
Chloromethane	ND	ug/l	25.			
Vinyl chloride	33.	ug/l	10.			
Chloroethane	ND	ug/l	10.			
1,1-Dichloroethene	ND	ug/l	5.0			
trans-1,2-Dichloroethene	ND	ug/l	7.5			
Trichloroethene	400	ug/l	5.0			
1,2-Dichlorobenzene	ND	ug/l	25.			
1,3-Dichlorobenzene	ND	ug/l	25.			
1,4-Dichlorobenzene	ND	ug/l	25.			
cis-1,2-Dichloroethene	390	ug/l	5.0			
Dichlorodifluoromethane	ND	ug/l	50.			
1,2-Dibromoethane	ND	ug/l	20.			
1,3-Dichloropropane	ND	ug/l	25.			
1,1,1,2-Tetrachloroethane	ND	ug/l	5.0			
o-Chlorotoluene	ND	ug/l	25.			
p-Chlorotoluene	ND	ug/l	25.			
Hexachlorobutadiene	ND	ug/l	10.			
1,2,4-Trichlorobenzene	ND	ug/l	25.			

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

**ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0503948-02
DUP-003-20050412-01

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B continued				60 8260B	0418 17:02		TT
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	100.	%		70-130			
Toluene-d8	96.0	%		70-130			
4-Bromofluorobenzene	96.0	%		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**

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

Laboratory Sample Number: L0503948-03	Date Collected: 12-APR-2005 11:50
MW-1D-20050412-01	Date Received : 13-APR-2005
Sample Matrix: WATER	Date Reported : 20-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	0417 20:58	TT
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: L0503948-03
 MW-1D-20050412-01

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B continued				60 8260B	0417 20:58		TT
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	99.0	%		70-130			
Toluene-d8	98.0	%		70-130			
4-Bromofluorobenzene	100.	%		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: L0503948-04 Date Collected: 12-APR-2005 12:50
MW-1M-20050412-01 Date Received : 13-APR-2005
Sample Matrix: WATER Date Reported : 20-APR-2005
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		0417 21:38	TT
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: L0503948-04
MW-1M-20050412-01

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B continued				60 8260B	0417 21:38		TT
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	97.0	%		70-130			
Toluene-d8	98.0	%		70-130			
4-Bromofluorobenzene	100.	%		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:	L0503948-05	Date Collected:	12-APR-2005 00:00
	DUP-002-20050412-01	Date Received :	13-APR-2005
Sample Matrix:	WATER	Date Reported :	20-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	0418 17:43 TT	
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: L0503948-05
DUP-002-20050412-01

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B continued				60 8260B	0418 17:43		TT
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	106.	%		70-130			
Toluene-d8	102.	%		70-130			
4-Bromofluorobenzene	102.	%		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**

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

Laboratory Sample Number: L0503948-06	Date Collected: 12-APR-2005 14:40
MW-1S-20050412-01	Date Received : 13-APR-2005
Sample Matrix: WATER	Date Reported : 20-APR-2005
Condition of Sample: Satisfactory	Field Prep: None
Number & Type of Containers: 6-Vial	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
Volatile Organics by MCP 8260B				60 8260B	0418 18:23 TT	
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: L0503948-06
MW-1S-20050412-01

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B continued				60 8260B	0418 18:23		TT
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	104.	%		70-130			
Toluene-d8	101.	%		70-130			
4-Bromofluorobenzene	98.0	%		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: L0503948-07	Date Collected: 12-APR-2005 17:10
MW-269MB-20050412-01	Date Received : 13-APR-2005
Sample Matrix: WATER	Date Reported : 20-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	0.008	mg/l	0.005	60 6010B	0415 17:00 0418 16:52	RW
Volatile Organics by MCP 8260B				60 8260B	0417 22:18	TT
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	0.52	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: L0503948-07
MW-269MB-20050412-01

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B continued				60 8260B	0417 22:18		TT
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	99.0	%		70-130			
Toluene-d8	97.0	%		70-130			
4-Bromofluorobenzene	99.0	%		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 LCS/LCSD ANALYSIS

Laboratory Job Number: L0503948

Parameter	LCS %	LCSD %	RPD	RPD Limit	QC Limits
Dissolved Metals by MCP 6000/7000 series for sample(s) 07 (WG199322-2, WG199322-3)					
Arsenic, Dissolved	98	98	0	20	75-125
Volatile Organics by MCP 8260B for sample(s) 01,03-04,07 (WG199419-1, WG199419-2)					
Methylene chloride	99	93	6	25	70-130
1,1-Dichloroethane	103	97	6	25	70-130
Chloroform	97	92	5	25	70-130
Carbon tetrachloride	100	94	6	25	70-130
1,2-Dichloropropane	100	94	6	25	70-130
Dibromochloromethane	92	92	0	25	70-130
1,1,2-Trichloroethane	102	100	2	25	70-130
Tetrachloroethene	102	93	9	25	70-130
Chlorobenzene	100	94	6	25	70-130
Trichlorofluoromethane	101	90	12	25	70-130
1,2-Dichloroethane	103	99	4	25	70-130
1,1,1-Trichloroethane	102	94	8	25	70-130
Bromodichloromethane	94	91	3	25	70-130
trans-1,3-Dichloropropene	100	97	3	25	70-130
cis-1,3-Dichloropropene	99	95	4	25	70-130
1,1-Dichloropropene	103	96	7	25	70-130
Bromoform	88	88	0	50	70-130
1,1,2,2-Tetrachloroethane	96	96	0	25	70-130
Benzene	102	96	6	25	70-130
Toluene	102	96	6	25	70-130
Ethylbenzene	103	97	6	25	70-130
Chloromethane	94	87	8	50	70-130
Bromomethane	85	90	6	50	70-130
Vinyl chloride	105	95	10	25	70-130
Chloroethane	99	94	5	25	70-130
1,1-Dichloroethene	101	92	9	25	70-130
trans-1,2-Dichloroethene	104	95	9	25	70-130
Trichloroethene	103	96	7	25	70-130
1,2-Dichlorobenzene	100	95	5	25	70-130
1,3-Dichlorobenzene	102	97	5	25	70-130
1,4-Dichlorobenzene	101	96	5	25	70-130
Methyl tert butyl ether	99	97	2	25	70-130
p/m-Xylene	104	97	7	25	70-130
o-Xylene	104	98	6	25	70-130
cis-1,2-Dichloroethene	104	97	7	25	70-130
Dibromomethane	100	96	4	25	70-130
1,2,3-Trichloropropane	94	93	1	25	70-130
Styrene	104	100	4	25	70-130
Dichlorodifluoromethane	94	86	9	50	70-130
Acetone	99	85	15	50	70-130
Carbon disulfide	101	93	8	25	70-130
2-Butanone	103	90	13	50	70-130
4-Methyl-2-pentanone	90	75	18	50	70-130
2-Hexanone	97	80	19	50	70-130
Bromochloromethane	105	97	8	25	70-130

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH LCS/LCSD ANALYSIS

Laboratory Job Number: L0503948

Continued

Parameter	LCS %	LCSD %	RPD	RPD Limit	QC Limits
Volatile Organics by MCP 8260B for sample(s) 01,03-04,07 (WG199419-1, WG199419-2)					
Tetrahydrofuran	94	93	1	25	70-130
2,2-Dichloropropane	99	90	10	25	70-130
1,2-Dibromoethane	98	95	3	25	70-130
1,3-Dichloropropane	99	97	2	25	70-130
1,1,1,2-Tetrachloroethane	100	97	3	25	70-130
Bromobenzene	100	96	4	25	70-130
n-Butylbenzene	105	98	7	25	70-130
sec-Butylbenzene	104	98	6	25	70-130
tert-Butylbenzene	101	95	6	25	70-130
o-Chlorotoluene	94	81	15	25	70-130
p-Chlorotoluene	102	97	5	25	70-130
1,2-Dibromo-3-chloropropane	84	89	6	50	70-130
Hexachlorobutadiene	102	93	9	25	70-130
Isopropylbenzene	103	97	6	25	70-130
p-Isopropyltoluene	103	96	7	25	70-130
Naphthalene	81	90	11	25	70-130
n-Propylbenzene	103	97	6	25	70-130
1,2,3-Trichlorobenzene	82	87	6	25	70-130
1,2,4-Trichlorobenzene	87	89	2	25	70-130
1,3,5-Trimethylbenzene	102	97	5	25	70-130
1,2,4-Trimethylbenzene	103	98	5	25	70-130
Ethyl ether	102	99	3	25	70-130
Isopropyl Ether	101	97	4	25	70-130
Ethyl-Tert-Butyl-Ether	102	99	3	25	70-130
Tertiary-Amyl Methyl Ether	101	100	1	25	70-130
1,4-Dioxane	91	112	21	50	70-130
Surrogate(s)					
1,2-Dichloroethane-d4	100	94	6		70-130
Toluene-d8	100	93	7		70-130
4-Bromofluorobenzene	102	95	7		70-130
Dibromofluoromethane	102	94	8		70-130
Volatile Organics by MCP 8260B for sample(s) 02,05 (WG199538-1, WG199538-2)					
Methylene chloride	102	100	2	25	70-130
1,1-Dichloroethane	108	105	3	25	70-130
Chloroform	101	99	2	25	70-130
Carbon tetrachloride	101	100	1	25	70-130
1,2-Dichloropropane	103	102	1	25	70-130
Dibromochloromethane	92	91	1	25	70-130
1,1,2-Trichloroethane	107	104	3	25	70-130
Tetrachloroethene	104	100	4	25	70-130
Chlorobenzene	101	100	1	25	70-130
Trichlorofluoromethane	103	101	2	25	70-130
1,2-Dichloroethane	110	110	0	25	70-130
1,1,1-Trichloroethane	105	102	3	25	70-130
Bromodichloromethane	97	96	1	25	70-130

ALPHA ANALYTICAL LABORATORIES
 QUALITY ASSURANCE BATCH LCS/LCSD ANALYSIS

Laboratory Job Number: L0503948

Continued

Parameter	LCS %	LCSD %	RPD	RPD Limit	QC Limits
Volatile Organics by MCP 8260B for sample(s) 02,05 (WG199538-1, WG199538-2)					
trans-1,3-Dichloropropene	100	99	1	25	70-130
cis-1,3-Dichloropropene	100	99	1	25	70-130
1,1-Dichloropropene	107	102	5	25	70-130
Bromoform	81	81	0	50	70-130
1,1,2,2-Tetrachloroethane	96	98	2	25	70-130
Benzene	104	102	2	25	70-130
Toluene	105	101	4	25	70-130
Ethylbenzene	106	103	3	25	70-130
Chloromethane	95	93	2	50	70-130
Bromomethane	80	86	7	50	70-130
Vinyl chloride	105	103	2	25	70-130
Chloroethane	107	103	4	25	70-130
1,1-Dichloroethene	101	98	3	25	70-130
trans-1,2-Dichloroethene	104	101	3	25	70-130
Trichloroethene	106	103	3	25	70-130
1,2-Dichlorobenzene	97	97	0	25	70-130
1,3-Dichlorobenzene	98	98	0	25	70-130
1,4-Dichlorobenzene	98	96	2	25	70-130
Methyl tert butyl ether	98	98	0	25	70-130
p/m-Xylene	105	103	2	25	70-130
o-Xylene	106	103	3	25	70-130
cis-1,2-Dichloroethene	105	103	2	25	70-130
Dibromomethane	102	104	2	25	70-130
1,2,3-Trichloropropane	93	97	4	25	70-130
Styrene	107	104	3	25	70-130
Dichlorodifluoromethane	79	75	5	50	70-130
Acetone	78	78	0	50	70-130
Carbon disulfide	100	97	3	25	70-130
2-Butanone	73	75	3	50	70-130
4-Methyl-2-pentanone	77	74	4	50	70-130
2-Hexanone	73	71	3	50	70-130
Bromochloromethane	103	105	2	25	70-130
Tetrahydrofuran	93	92	1	25	70-130
2,2-Dichloropropane	101	96	5	25	70-130
1,2-Dibromoethane	102	100	2	25	70-130
1,3-Dichloropropane	102	103	1	25	70-130
1,1,1,2-Tetrachloroethane	101	99	2	25	70-130
Bromobenzene	98	97	1	25	70-130
n-Butylbenzene	100	97	3	25	70-130
sec-Butylbenzene	100	97	3	25	70-130
tert-Butylbenzene	98	95	3	25	70-130
o-Chlorotoluene	93	90	3	25	70-130
p-Chlorotoluene	100	98	2	25	70-130
1,2-Dibromo-3-chloropropane	82	84	2	50	70-130
Hexachlorobutadiene	94	91	3	25	70-130
Isopropylbenzene	100	98	2	25	70-130
p-Isopropyltoluene	99	95	4	25	70-130

ALPHA ANALYTICAL LABORATORIES
 QUALITY ASSURANCE BATCH LCS/LCSD ANALYSIS

Laboratory Job Number: L0503948

Continued

Parameter	LCS %	LCSD %	RPD	RPD Limit	QC Limits
Volatile Organics by MCP 8260B for sample(s) 02,05 (WG199538-1, WG199538-2)					
Naphthalene	88	87	1	25	70-130
n-Propylbenzene	100	98	2	25	70-130
1,2,3-Trichlorobenzene	92	90	2	25	70-130
1,2,4-Trichlorobenzene	91	88	3	25	70-130
1,3,5-Trimethylbenzene	100	97	3	25	70-130
1,2,4-Trimethylbenzene	100	98	2	25	70-130
Ethyl ether	100	98	2	25	70-130
Isopropyl Ether	100	98	2	25	70-130
Ethyl-Tert-Butyl-Ether	101	101	0	25	70-130
Tertiary-Amyl Methyl Ether	101	101	0	25	70-130
1,4-Dioxane	99	110	11	50	70-130
Surrogate(s)					
1,2-Dichloroethane-d4	111	104	7		70-130
Toluene-d8	105	98	7		70-130
4-Bromofluorobenzene	101	97	4		70-130
Dibromofluoromethane	109	101	8		70-130
Volatile Organics by MCP 8260B for sample(s) 06 (WG199685-3, WG199685-4)					
Methylene chloride	102	100	2	25	70-130
1,1-Dichloroethane	108	105	6	25	70-130
Chloroform	101	99	5	25	70-130
Carbon tetrachloride	101	100	3	25	70-130
1,2-Dichloropropane	103	102	4	25	70-130
Dibromochloromethane	92	91	3	25	70-130
1,1,2-Trichloroethane	107	104	6	25	70-130
Tetrachloroethene	104	100	6	25	70-130
Chlorobenzene	101	100	4	25	70-130
1,2-Dichloroethane	110	110	4	25	70-130
1,1,1-Trichloroethane	105	102	5	25	70-130
Bromodichloromethane	97	96	2	25	70-130
trans-1,3-Dichloropropene	100	99	2	25	70-130
cis-1,3-Dichloropropene	100	99	1	25	70-130
Bromoform	81	81	4	50	70-130
1,1,2,2-Tetrachloroethane	96	98	2	25	70-130
Chloromethane	95	93	6	50	70-130
Vinyl chloride	105	103	8	25	70-130
Chloroethane	107	103	12	25	70-130
1,1-Dichloroethene	101	98	6	25	70-130
trans-1,2-Dichloroethene	104	101	7	25	70-130
Trichloroethene	106	103	6	25	70-130
1,2-Dichlorobenzene	97	97	4	25	70-130
1,3-Dichlorobenzene	98	98	5	25	70-130
1,4-Dichlorobenzene	98	96	5	25	70-130
cis-1,2-Dichloroethene	105	103	7	25	70-130
Dichlorodifluoromethane	79	75	4	50	70-130
1,2-Dibromoethane	102	100	6	25	70-130

ALPHA ANALYTICAL LABORATORIES
 QUALITY ASSURANCE BATCH LCS/LCSD ANALYSIS

Laboratory Job Number: L0503948

Continued

Parameter	LCS %	LCSD %	RPD	RPD Limit	QC Limits
Volatile Organics by MCP 8260B for sample(s) 06 (WG199685-3, WG199685-4)					
1,3-Dichloropropane	102	103	3	25	70-130
1,1,1,2-Tetrachloroethane	101	99	3	25	70-130
o-Chlorotoluene	93	90	2	25	70-130
p-Chlorotoluene	100	98	4	25	70-130
Hexachlorobutadiene	94	91	2	25	70-130
1,2,4-Trichlorobenzene	91	88	0	25	70-130
Surrogate(s)					
1,2-Dichloroethane-d4	111	104	7		70-130
Toluene-d8	105	98	7		70-130
4-Bromofluorobenzene	101	97	4		70-130
Dibromofluoromethane	109	101	8		70-130

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH MS/MSD ANALYSIS

Laboratory Job Number: L0503948

Parameter	MS %	MSD %	RPD	RPD Limit	MS/MSD Limits
Volatile Organics by MCP 8260B for sample(s) 06 (L0503948-06, WG199685-2)					
Methylene chloride	102	107	5	30	70-130
1,1-Dichloroethane	109	109	0	30	70-130
Chloroform	99	100	1	30	70-130
Carbon tetrachloride	99	101	2	30	70-130
1,2-Dichloropropane	101	103	2	30	70-130
Dibromochloromethane	86	92	7	30	70-130
1,1,2-Trichloroethane	103	107	4	30	70-130
Tetrachloroethene	102	104	2	30	70-130
Chlorobenzene	99	102	3	30	70-130
1,2-Dichloroethane	111	115	4	30	70-130
1,1,1-Trichloroethane	104	106	2	30	70-130
Bromodichloromethane	94	98	4	30	70-130
trans-1,3-Dichloropropene	94	98	4	30	70-130
cis-1,3-Dichloropropene	95	96	1	30	70-130
Bromoform	76	82	8	30	70-130
1,1,2,2-Tetrachloroethane	92	98	6	30	70-130
Chloromethane	92	93	1	30	70-130
Vinyl chloride	104	103	1	30	70-130
Chloroethane	114	114	0	30	70-130
1,1-Dichloroethene	101	101	0	30	70-130
trans-1,2-Dichloroethene	104	107	3	30	70-130
Trichloroethene	104	106	2	30	70-130
1,2-Dichlorobenzene	94	99	5	30	70-130
1,3-Dichlorobenzene	95	99	4	30	70-130
1,4-Dichlorobenzene	95	99	4	30	70-130
cis-1,2-Dichloroethene	106	107	1	30	70-130
Dichlorodifluoromethane	68	69	1	30	70-130
1,2-Dibromoethane	96	103	7	30	70-130
1,3-Dichloropropane	98	104	6	30	70-130
1,1,1,2-Tetrachloroethane	96	102	6	30	70-130
o-Chlorotoluene	90	97	7	30	70-130
p-Chlorotoluene	97	100	3	30	70-130
Hexachlorobutadiene	82	88	7	30	70-130
1,2,4-Trichlorobenzene	81	86	6	30	70-130
Surrogate(s)					
1,2-Dichloroethane-d4	105	110	5		70-130
Toluene-d8	95	100	5		70-130
4-Bromofluorobenzene	92	96	4		70-130
Dibromofluoromethane	99	102	3		70-130

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0503948

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 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) 01,03-04,07 (WG199419-3)							
Volatile Organics by MCP 8260B				60 8260B		0417 17:36	TT
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: L0503948

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 01,03-04,07 (WG199419-3)							
Volatile Organics by MCP 8260B continued				60 8260B		0417 17:36 TT	
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	98.0	%	70-130				
Toluene-d8	98.0	%	70-130				
4-Bromofluorobenzene	100.	%	70-130				
Dibromofluoromethane	96.0	%	70-130				
Blank Analysis for sample(s) 02,05 (WG199538-3)							
Volatile Organics by MCP 8260B				60 8260B		0418 16:22 TT	
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: L0503948

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 02,05 (WG199538-3)							
Volatile Organics by MCP 8260B continued				60 8260B	0418 16:22 TT		
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				
sec-Butylbenzene	ND	ug/l	0.50				

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0503948

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 02,05 (WG199538-3)							
Volatile Organics by MCP 8260B continued				60 8260B	0418 16:22 TT		
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	103.	%	70-130				
Toluene-d8	97.0	%	70-130				
4-Bromofluorobenzene	95.0	%	70-130				
Dibromofluoromethane	96.0	%	70-130				
Blank Analysis for sample(s) 06 (WG199685-5)							
Volatile Organics by MCP 8260B				60 8260B	0418 16:22 TT		
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				

ALPHA ANALYTICAL LABORATORIES
 QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0503948

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 06 (WG199685-5)							
Volatile Organics by MCP 8260B continued				60 8260B	0418 16:22 TT		
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				
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	96.0	%	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: L0503948

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
L0503948-01A	Vial HCl preserved	A	NA	2.7 C	Y	Absent	MCP-8260-04
L0503948-01B	Vial HCl preserved	A	NA	2.7 C	Y	Absent	MCP-8260-04
L0503948-02A	Vial HCl preserved	A	NA	2.7 C	Y	Absent	MCP-8260-04
L0503948-02B	Vial HCl preserved	A	NA	2.7 C	Y	Absent	MCP-8260-04
L0503948-03A	Vial HCl preserved	A	NA	2.7 C	Y	Absent	MCP-8260-04
L0503948-03B	Vial HCl preserved	A	NA	2.7 C	Y	Absent	MCP-8260-04
L0503948-04A	Vial HCl preserved	A	NA	2.7 C	Y	Absent	MCP-8260-04
L0503948-04B	Vial HCl preserved	A	NA	2.7 C	Y	Absent	MCP-8260-04
L0503948-05A	Vial HCl preserved	A	NA	2.7 C	Y	Absent	MCP-8260-04
L0503948-05B	Vial HCl preserved	A	NA	2.7 C	Y	Absent	MCP-8260-04
L0503948-06A	Vial HCl preserved	A	NA	2.7 C	Y	Absent	MCP-8260-04
L0503948-06B	Vial HCl preserved	A	NA	2.7 C	Y	Absent	MCP-8260-04
L0503948-06C	Vial HCl preserved	A	NA	2.7 C	Y	Absent	MCP-8260-04
L0503948-06D	Vial HCl preserved	A	NA	2.7 C	Y	Absent	MCP-8260-04
L0503948-06E	Vial HCl preserved	A	NA	2.7 C	Y	Absent	MCP-8260-04
L0503948-06F	Vial HCl preserved	A	NA	2.7 C	Y	Absent	MCP-8260-04
L0503948-07A	Vial HCl preserved	A	NA	2.7 C	Y	Absent	MCP-8260-04
L0503948-07B	Vial HCl preserved	A	NA	2.7 C	Y	Absent	MCP-8260-04
L0503948-07C	Plastic 250ml HNO3 preserved	A	<2	2.7 C	Y	Absent	MCP-AS-6010S

Container Comments

Container ID Comments



CHAIN OF CUSTODY

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

Client Information

Client: ERM Boston
Address: 399 BOSTON ST
BOSTON, MA

Project Name: Raytheon - Wayland
Project Location: Wayland, MA
Project #: ZB047
Project Manager: J. Ricard
ALPHA Quote #:

Phone:

Fax:

Email:

Standard RUSH (only confirmed if pre-approved!)
Date Due: 4/20/05 Time:

Other Project Specific Requirements/Comments/Detection Limits:
** Sample ID on COC is correct. Bottles used
DJR-003 and DJR-002.

Date Rec'd in Lab: 4/13/05
Report Information - Data Deliverables
 FAX EMAIL
 ADEX Add'l Deliverables

ALPHA Job #: 10503948
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	Criteria
<u>NO (CO2, CUO)</u>	
<u>DIS AS GOOD</u>	

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	Z	Y	X	W	V	U	T	S	R	Q	P	O	N	M	L	K	J	I	H	G	F	E	D	C	B	A	#	Sample Specific Comments
		Date	Time																														

<u>03948-1</u>	<u>NW-2004WB-20050412-01</u>	<u>4-12-05</u>	<u>1600</u>	<u>GW</u>	<u>BT</u>	<u>2</u>																											<u>** Diss Pb samples</u>	
<u>2**</u>	<u>DJR-003-20050412-01</u>	<u>4-12-05</u>	<u>2400</u>	<u>GW</u>	<u>BT</u>	<u>2</u>																												<u>QAD Filtered</u>
<u>3</u>	<u>NW-ID-20050412-01</u>	<u>4-12-05</u>	<u>1500</u>	<u>GW</u>	<u>BT</u>	<u>2</u>																												<u>1/0.05 micron</u>
<u>4</u>	<u>NW-ID-20050412-01</u>	<u>4-12-05</u>	<u>1200</u>	<u>GW</u>	<u>BT</u>	<u>2</u>																												<u>Filter</u>
<u>5**</u>	<u>DJR-002-20050412-01</u>	<u>4-12-05</u>	<u>2400</u>	<u>GW</u>	<u>BT</u>	<u>2</u>																												
<u>6</u>	<u>NW-15-20050412-01</u>	<u>4-12-05</u>	<u>1400</u>	<u>GW</u>	<u>BT</u>	<u>2</u>																												
<u>7</u>	<u>NW-15-20050412-01</u>	<u>4-12-05</u>	<u>1400</u>	<u>GW</u>	<u>BT</u>	<u>2</u>																												
<u>8</u>	<u>NW-ID-20050412-01</u>	<u>4-12-05</u>	<u>1400</u>	<u>GW</u>	<u>BT</u>	<u>2</u>																												
<u>9</u>	<u>NW-2004WB-20050412-01</u>	<u>4-12-05</u>	<u>1700</u>	<u>GW</u>	<u>BT</u>	<u>2</u>																												

QUESTIONS ABOVE MUST BE ANSWERED FOR PRESUMPTIVE CERTAINTY

Container Type	Date/Time
<u>N</u>	
<u>B</u>	

Relinquished By:

Received By:

Date/Time

IS YOUR PROJECT MCP ?

Kevin T...
RON K...

4/13/05 19:10

...
...

4/13/05 18:00
4-13-05 1:51-

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.