

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: L0309907
Address: 399 Boylston Street
6th Floor
Boston, MA 02116 Date Received: 02-OCT-2003
Attn: J. Picard Date Reported: 09-OCT-2003
Project Number: 1922.07.2 Delivery Method: Alpha
Site: RAYTHEON

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: L0309907
Date Reported: 09-OCT-2003

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0309907-01	MW-266S	WAYLAND, MA
L0309907-02	MW-266MA	WAYLAND, MA
L0309907-03	MW-266MB	WAYLAND, MA
L0309907-04	MW-266D	WAYLAND, MA
L0309907-05	MW-266B	WAYLAND, MA
L0309907-06	MW-265S	WAYLAND, MA
L0309907-07	MW-265M	WAYLAND, MA
L0309907-08	MW-265D	WAYLAND, MA
L0309907-09	DUP-11	WAYLAND, MA
L0309907-10	MW-268S	WAYLAND, MA
L0309907-11	MW-268M	WAYLAND, MA
L0309907-12	MW-268B	WAYLAND, MA

ALPHA ANALYTICAL LABORATORIES
NARRATIVE REPORT

Laboratory Job Number: L0309907

MCP Related Narratives

Metals

In reference to question F, at the client's request, the samples were analyzed only for Dissolved Arsenic.

Volatile Organics

In reference to question F, at the client's request, only the list of 8021 compounds was reported.

L0309907-03, -07 and -11 have elevated limits of detection due to the dilutions required by the elevated concentrations of target compounds in the samples.

L0309907-06 was re-analyzed on dilution in order to quantitate the sample 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.

In reference to question E:

The LCS % recovery for Bromomethane (55%) associated with L0309907-01 and -02 is below the acceptance criteria for the method. This compound is classified as "difficult".

The LCS % recovery for Bromoform (135%) associated with L0309907-03 through -08, -10 and -12 is above the acceptance criteria for the method. All associated samples are non-detect for this compound.

One of the LCS % recoveries for Chloromethane (56%) associated with L0309907-09 is below the acceptance criteria for the method.

One of the LCS % recoveries for Bromoform (140%) associated with L0309907-09 is above the acceptance criteria for the method. All associated samples are non-detect for this compound.

**ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0309907-01
MW-266S

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B continued				54 8260B	1005 14:06		BT
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	94.0	%		70-130			
Toluene-d8	91.0	%		70-130			
4-Bromofluorobenzene	96.0	%		70-130			
Dibromofluoromethane	92.0	%		70-130			

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

ALPHA ANALYTICAL LABORATORIES
 CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0309907-02
 MW-266MA

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B continued				54 8260B	1005 14:53		BT
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	93.0	%		70-130			
Toluene-d8	88.0	%		70-130			
4-Bromofluorobenzene	94.0	%		70-130			
Dibromofluoromethane	91.0	%		70-130			

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

**ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0309907-03
MW-266MB

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B continued				54 8260B	1003 15:58 RY		
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	87.0	%		70-130			
Toluene-d8	98.0	%		70-130			
4-Bromofluorobenzene	115.	%		70-130			
Dibromofluoromethane	99.0	%		70-130			

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

**ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0309907-04
MW-266D

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B continued				54 8260B	1003 16:33		RY
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	88.0	%		70-130			
Toluene-d8	96.0	%		70-130			
4-Bromofluorobenzene	112.	%		70-130			
Dibromofluoromethane	96.0	%		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: L0309907-05	Date Collected: 02-OCT-2003 16:20
MW-266B	Date Received : 02-OCT-2003
Sample Matrix: WATER	Date Reported : 09-OCT-2003
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				54 8260B	1003 17:07	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	2.5			
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	2.5			
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: L0309907-05
MW-266B

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B continued				54 8260B	1003 17:07 RY		
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	87.0	%		70-130			
Toluene-d8	96.0	%		70-130			
4-Bromofluorobenzene	111.	%		70-130			
Dibromofluoromethane	99.0	%		70-130			

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

**ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0309907-06
MW-265S

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B continued				54 8260B	1003 17:42 RY		
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	89.0	%		70-130			
Toluene-d8	96.0	%		70-130			
4-Bromofluorobenzene	113.	%		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**

Laboratory Sample Number: L0309907-07
MW-265M

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B continued				54 8260B	1003 18:17 RY		
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	91.0	%		70-130			
Toluene-d8	97.0	%		70-130			
4-Bromofluorobenzene	113.	%		70-130			
Dibromofluoromethane	101.	%		70-130			

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

**ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0309907-08
MW-265D

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B continued				54 8260B	1003 18:51		RY
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	91.0	%		70-130			
Toluene-d8	96.0	%		70-130			
4-Bromofluorobenzene	114.	%		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:	L0309907-09	Date Collected:	02-OCT-2003 00:00
	DUP-11	Date Received :	02-OCT-2003
Sample Matrix:	WATER	Date Reported :	09-OCT-2003
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				54 8260B		1006 13:07 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	71.	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	8.0	ug/l	1.0				
Chloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	0.92	ug/l	0.75				
Trichloroethene	>100	ug/l	.5				
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	>100	ug/l	.5				
Dichlorodifluoromethane	ND	ug/l	5.0				
1,2-Dibromoethane	ND	ug/l	2.5				
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	2.5				
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: L0309907-09
DUP-11

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B continued				54 8260B	1006 13:07 RY		
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	86.0	%		70-130			
Toluene-d8	92.0	%		70-130			
4-Bromofluorobenzene	112.	%		70-130			
Dibromofluoromethane	100.	%		70-130			
Volatile Organics by MCP 8260B				54 8260B	1007 10:18 RY		
Trichloroethene	440	ug/l	5.0				
cis-1,2-Dichloroethene	300	ug/l	5.0				
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	86.0	%		70-130			
Toluene-d8	94.0	%		70-130			
4-Bromofluorobenzene	110.	%		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: L0309907-10
 MW-268S

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B continued				54 8260B	1003 19:26 RY		
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	90.0	%		70-130			
Toluene-d8	96.0	%		70-130			
4-Bromofluorobenzene	113.	%		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: L0309907-11	Date Collected: 02-OCT-2003 16:10
MW-268M	Date Received : 02-OCT-2003
Sample Matrix: WATER	Date Reported : 09-OCT-2003
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						
Arsenic, Dissolved	ND	mg/l	0.010	54 6010B	1003 11:00 1006 15:45	RW
Volatile Organics by MCP 8260B				54 8260B	1003 20:01	RY
Methylene chloride	ND	ug/l	500			
1,1-Dichloroethane	ND	ug/l	75.			
Chloroform	ND	ug/l	75.			
Carbon tetrachloride	ND	ug/l	50.			
1,2-Dichloropropane	ND	ug/l	180			
Dibromochloromethane	ND	ug/l	50.			
1,1,2-Trichloroethane	ND	ug/l	75.			
Tetrachloroethene	ND	ug/l	50.			
Chlorobenzene	ND	ug/l	50.			
1,2-Dichloroethane	ND	ug/l	50.			
1,1,1-Trichloroethane	ND	ug/l	50.			
Bromodichloromethane	ND	ug/l	50.			
trans-1,3-Dichloropropene	ND	ug/l	50.			
cis-1,3-Dichloropropene	ND	ug/l	50.			
Bromoform	ND	ug/l	200			
1,1,2,2-Tetrachloroethane	ND	ug/l	50.			
Chloromethane	ND	ug/l	250			
Vinyl chloride	280	ug/l	100			
Chloroethane	ND	ug/l	100			
1,1-Dichloroethene	ND	ug/l	50.			
trans-1,2-Dichloroethene	ND	ug/l	75.			
Trichloroethene	2800	ug/l	50.			
1,2-Dichlorobenzene	ND	ug/l	250			
1,3-Dichlorobenzene	ND	ug/l	250			
1,4-Dichlorobenzene	ND	ug/l	250			
cis-1,2-Dichloroethene	7400	ug/l	50.			
Dichlorodifluoromethane	ND	ug/l	500			
1,2-Dibromoethane	ND	ug/l	250			
1,3-Dichloropropane	ND	ug/l	250			
1,1,1,2-Tetrachloroethane	ND	ug/l	50.			
o-Chlorotoluene	ND	ug/l	250			
p-Chlorotoluene	ND	ug/l	250			
Hexachlorobutadiene	ND	ug/l	250			
1,2,4-Trichlorobenzene	ND	ug/l	250			

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

ALPHA ANALYTICAL LABORATORIES
 CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0309907-11
 MW-268M

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B continued				54 8260B	1003 20:01		RY
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	89.0	%		70-130			
Toluene-d8	96.0	%		70-130			
4-Bromofluorobenzene	110.	%		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: L0309907-12		Date Collected: 02-OCT-2003 15:15
	MW-268B	Date Received : 02-OCT-2003
Sample Matrix: WATER		Date Reported : 09-OCT-2003
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						
Arsenic, Dissolved	0.011	mg/l	0.010	54 6010B	1003 11:00 1006 15:49	RW
Volatile Organics by MCP 8260B				54 8260B	1003 20:35	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	2.5			
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	2.5			
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: L0309907-12
MW-268B

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B continued				54 8260B	1003 20:35 RY		
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	88.0	%		70-130			
Toluene-d8	97.0	%		70-130			
4-Bromofluorobenzene	116.	%		70-130			
Dibromofluoromethane	100.	%		70-130			

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

**ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES**

Laboratory Job Number: L0309907

Parameter	% Recovery	QC Criteria
Dissolved Metals LCS for sample(s) 10-12 (WG152457)		
Arsenic, Dissolved	107	80-120
Volatile Organics by MCP 8260B LCS for sample(s) 09 (WG152482)		
Methylene chloride	90	70-130
1,1-Dichloroethane	89	70-130
Chloroform	85	70-130
Carbon tetrachloride	95	70-130
1,2-Dichloropropane	90	70-130
Dibromochloromethane	89	70-130
1,1,2-Trichloroethane	99	70-130
Tetrachloroethene	97	70-130
Chlorobenzene	98	70-130
1,2-Dichloroethane	82	70-130
1,1,1-Trichloroethane	87	70-130
Bromodichloromethane	90	70-130
trans-1,3-Dichloropropene	83	70-130
cis-1,3-Dichloropropene	85	70-130
Bromoform	114	70-130
1,1,2,2-Tetrachloroethane	103	70-130
Chloromethane	55	70-130
Vinyl chloride	88	70-130
Chloroethane	88	70-130
1,1-Dichloroethene	90	70-130
trans-1,2-Dichloroethene	93	70-130
Trichloroethene	90	70-130
1,2-Dichlorobenzene	93	70-130
1,3-Dichlorobenzene	93	70-130
1,4-Dichlorobenzene	93	70-130
cis-1,2-Dichloroethene	95	70-130
Dichlorodifluoromethane	83	70-130
1,2-Dibromoethane	89	70-130
1,3-Dichloropropane	94	70-130
1,1,1,2-Tetrachloroethane	93	70-130
o-Chlorotoluene	101	70-130
p-Chlorotoluene	99	70-130
Hexachlorobutadiene	96	70-130
1,2,4-Trichlorobenzene	79	70-130
Surrogate(s)		
1,2-Dichloroethane-d4	86	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	101	70-130
Dibromofluoromethane	94	70-130
Volatile Organics by MCP 8260B LCS for sample(s) 09 (WG152482)		
Methylene chloride	102	70-130
1,1-Dichloroethane	115	70-130
Chloroform	118	70-130

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0309907

Continued

Parameter	% Recovery	QC Criteria
Volatile Organics by MCP 8260B LCS for sample(s) 09 (WG152482)		
Carbon tetrachloride	126	70-130
1,2-Dichloropropane	120	70-130
Dibromochloromethane	115	70-130
1,1,2-Trichloroethane	126	70-130
Tetrachloroethene	114	70-130
Chlorobenzene	115	70-130
1,2-Dichloroethane	108	70-130
1,1,1-Trichloroethane	118	70-130
Bromodichloromethane	122	70-130
trans-1,3-Dichloropropene	104	70-130
cis-1,3-Dichloropropene	113	70-130
Bromoform	140	70-130
1,1,2,2-Tetrachloroethane	123	70-130
Chloromethane	74	70-130
Vinyl chloride	115	70-130
Chloroethane	122	70-130
1,1-Dichloroethene	119	70-130
trans-1,2-Dichloroethene	119	70-130
Trichloroethene	117	70-130
1,2-Dichlorobenzene	105	70-130
1,3-Dichlorobenzene	106	70-130
1,4-Dichlorobenzene	107	70-130
cis-1,2-Dichloroethene	125	70-130
Dichlorodifluoromethane	126	70-130
1,2-Dibromoethane	112	70-130
1,3-Dichloropropane	115	70-130
1,1,1,2-Tetrachloroethane	112	70-130
o-Chlorotoluene	114	70-130
p-Chlorotoluene	114	70-130
Hexachlorobutadiene	108	70-130
1,2,4-Trichlorobenzene	93	70-130
Surrogate(s)		
1,2-Dichloroethane-d4	90	70-130
Toluene-d8	93	70-130
4-Bromofluorobenzene	102	70-130
Dibromofluoromethane	104	70-130
Volatile Organics by MCP 8260B LCS for sample(s) 03-08,10-12 (WG152482)		
Methylene chloride	94	70-130
1,1-Dichloroethane	101	70-130
Chloroform	99	70-130
Carbon tetrachloride	106	70-130
1,2-Dichloropropane	102	70-130
Dibromochloromethane	110	70-130
1,1,2-Trichloroethane	124	70-130
Tetrachloroethene	110	70-130
Chlorobenzene	117	70-130

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0309907

Continued

Parameter	% Recovery	QC Criteria
Volatile Organics by MCP 8260B LCS for sample(s) 03-08,10-12 (WG152482)		
1,2-Dichloroethane	91	70-130
1,1,1-Trichloroethane	101	70-130
Bromodichloromethane	103	70-130
trans-1,3-Dichloropropene	103	70-130
cis-1,3-Dichloropropene	101	70-130
Bromoform	135	70-130
1,1,2,2-Tetrachloroethane	129	70-130
Chloromethane	79	70-130
Vinyl chloride	111	70-130
Chloroethane	103	70-130
1,1-Dichloroethene	105	70-130
trans-1,2-Dichloroethene	104	70-130
Trichloroethene	102	70-130
1,2-Dichlorobenzene	115	70-130
1,3-Dichlorobenzene	114	70-130
1,4-Dichlorobenzene	115	70-130
cis-1,2-Dichloroethene	109	70-130
Dichlorodifluoromethane	123	70-130
1,2-Dibromoethane	113	70-130
1,3-Dichloropropane	115	70-130
1,1,1,2-Tetrachloroethane	114	70-130
o-Chlorotoluene	122	70-130
p-Chlorotoluene	123	70-130
Hexachlorobutadiene	116	70-130
1,2,4-Trichlorobenzene	100	70-130
Surrogate(s)		
1,2-Dichloroethane-d4	88	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	103	70-130
Dibromofluoromethane	95	70-130
Volatile Organics by MCP 8260B LCS for sample(s) 01-02 (WG152436)		
Methylene chloride	82	70-130
1,1-Dichloroethane	96	70-130
Chloroform	95	70-130
Carbon tetrachloride	100	70-130
1,2-Dichloropropane	98	70-130
Dibromochloromethane	90	70-130
1,1,2-Trichloroethane	99	70-130
Tetrachloroethene	96	70-130
Chlorobenzene	96	70-130
Trichlorofluoromethane	102	70-130
1,2-Dichloroethane	99	70-130
1,1,1-Trichloroethane	101	70-130
Bromodichloromethane	95	70-130
trans-1,3-Dichloropropene	86	70-130
cis-1,3-Dichloropropene	91	70-130

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0309907

Continued

Parameter	% Recovery	QC Criteria
Volatile Organics by MCP 8260B LCS for sample(s) 01-02 (WG152436)		
1,1-Dichloropropene	96	70-130
Bromoform	90	70-130
1,1,2,2-Tetrachloroethane	100	70-130
Benzene	87	70-130
Toluene	95	70-130
Ethylbenzene	98	70-130
Chloromethane	85	70-130
Bromomethane	55	70-130
Vinyl chloride	92	70-130
Chloroethane	96	70-130
1,1-Dichloroethene	93	70-130
trans-1,2-Dichloroethene	93	70-130
Trichloroethene	98	70-130
1,2-Dichlorobenzene	93	70-130
1,3-Dichlorobenzene	93	70-130
1,4-Dichlorobenzene	95	70-130
Methyl tert butyl ether	98	70-130
p/m-Xylene	97	70-130
o-Xylene	97	70-130
cis-1,2-Dichloroethene	100	70-130
Dibromomethane	100	70-130
1,2,3-Trichloropropane	98	70-130
Styrene	99	70-130
Dichlorodifluoromethane	91	70-130
Acetone	133	70-130
Carbon disulfide	90	70-130
2-Butanone	110	70-130
4-Methyl-2-pentanone	95	70-130
2-Hexanone	91	70-130
Bromochloromethane	99	70-130
Tetrahydrofuran	94	70-130
2,2-Dichloropropane	101	70-130
1,2-Dibromoethane	99	70-130
1,3-Dichloropropane	98	70-130
1,1,1,2-Tetrachloroethane	98	70-130
Bromobenzene	95	70-130
n-Butylbenzene	89	70-130
sec-Butylbenzene	93	70-130
tert-Butylbenzene	94	70-130
o-Chlorotoluene	95	70-130
p-Chlorotoluene	93	70-130
1,2-Dibromo-3-chloropropane	95	70-130
Hexachlorobutadiene	93	70-130
Isopropylbenzene	91	70-130
p-Isopropyltoluene	93	70-130
Naphthalene	75	70-130
n-Propylbenzene	94	70-130
1,2,3-Trichlorobenzene	89	70-130

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0309907

Continued

Parameter	% Recovery	QC Criteria
Volatile Organics by MCP 8260B LCS for sample(s) 01-02 (WG152436)		
1,2,4-Trichlorobenzene	90	70-130
1,3,5-Trimethylbenzene	95	70-130
1,2,4-Trimethylbenzene	98	70-130
Ethyl ether	95	70-130
Isopropyl Ether	89	70-130
Ethyl-Tert-Butyl-Ether	90	70-130
Tertiary-Amyl Methyl Ether	93	70-130
1,4-Dioxane	112	70-130
Surrogate(s)		
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	93	70-130
4-Bromofluorobenzene	98	70-130
Dibromofluoromethane	100	70-130

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0309907

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 10-12 (WG152457-1)							
Dissolved Metals							
Arsenic, Dissolved	ND	mg/l	0.010	54 6010B	1003 11:00	1006 15:20	RW
Blank Analysis for sample(s) 01-02 (WG152436-8)							
Volatile Organics by MCP 8260B				54 8260B	1005 11:47		BT
Methylene chloride	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	0.75				
Chloroform	ND	ug/l	0.75				
Carbon tetrachloride	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	1.8				
Dibromochloromethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.75				
Tetrachloroethene	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	2.5				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
Bromodichloromethane	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
1,1-Dichloropropene	ND	ug/l	2.5				
Bromoform	ND	ug/l	2.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Benzene	ND	ug/l	0.50				
Toluene	ND	ug/l	0.75				
Ethylbenzene	ND	ug/l	0.50				
Chloromethane	ND	ug/l	2.5				
Bromomethane	ND	ug/l	1.0				
Vinyl chloride	ND	ug/l	1.0				
Chloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.75				
Trichloroethene	ND	ug/l	0.50				
1,2-Dichlorobenzene	ND	ug/l	2.5				
1,3-Dichlorobenzene	ND	ug/l	2.5				
1,4-Dichlorobenzene	ND	ug/l	2.5				
Methyl tert butyl ether	ND	ug/l	1.0				
p/m-Xylene	ND	ug/l	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				

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0309907

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 01-02 (WG152436-8)							
Volatile Organics by MCP 8260B continued				54 8260B		1005 11:47	BT
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	2.5				
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	2.5				
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	94.0	%	70-130				
Toluene-d8	91.0	%	70-130				
4-Bromofluorobenzene	95.0	%	70-130				
Dibromofluoromethane	90.0	%	70-130				
Blank Analysis for sample(s) 03-08,10-12 (WG152482-4)							
Volatile Organics by MCP 8260B				54 8260B		1003 15:21	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				

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0309907

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 03-08,10-12 (WG152482-4)							
Volatile Organics by MCP 8260B continued				54 8260B		1003 15:21	RY
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	2.5				
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	2.5				
1,2,4-Trichlorobenzene	ND	ug/l	2.5				
Surrogate(s)	Recovery		QC Criteria				
1,2-Dichloroethane-d4	86.0	%	70-130				
Toluene-d8	98.0	%	70-130				
4-Bromofluorobenzene	114.	%	70-130				
Dibromofluoromethane	97.0	%	70-130				
Blank Analysis for sample(s) 09 (WG152482-6)							
Volatile Organics by MCP 8260B				54 8260B		1007 09:43	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				

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0309907

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 09 (WG152482-6)							
Volatile Organics by MCP 8260B continued				54 8260B		1007 09:43 RY	
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	2.5				
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	2.5				
1,2,4-Trichlorobenzene	ND	ug/l	2.5				
Surrogate(s)	Recovery		QC Criteria				
1,2-Dichloroethane-d4	83.0	%	70-130				
Toluene-d8	94.0	%	70-130				
4-Bromofluorobenzene	111.	%	70-130				
Dibromofluoromethane	93.0	%	70-130				
Blank Analysis for sample(s) 09 (WG152482-8)							
Volatile Organics by MCP 8260B				54 8260B		1006 10:18 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				

ALPHA ANALYTICAL LABORATORIES
 QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0309907

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 09 (WG152482-8)							
Volatile Organics by MCP 8260B continued				54 8260B		1006 10:18 RY	
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	2.5				
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	2.5				
1,2,4-Trichlorobenzene	ND	ug/l	2.5				
Surrogate(s)	Recovery		QC Criteria				
1,2-Dichloroethane-d4	89.0	%	70-130				
Toluene-d8	91.0	%	70-130				
4-Bromofluorobenzene	111.	%	70-130				
Dibromofluoromethane	103.	%	70-130				

**ALPHA ANALYTICAL LABORATORIES
ADDENDUM I**

REFERENCES

54. Compendium of Quality Assurance and Quality Control Requirements and Performance Standards for Selected Analytical Methods. MADEP BWSC. Final Methods. May 2003.

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.

Please note that all solid samples are reported on dry weight basis unless noted otherwise.

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: L0309907

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
L0309907-01A	Vial HCl preserved	A	NA	1.5 C	Y	Absent	MCP-8260
L0309907-01B	Vial HCl preserved	A	NA	1.5 C	Y	Absent	MCP-8260
L0309907-02A	Vial HCl preserved	A	NA	1.5 C	Y	Absent	MCP-8260
L0309907-02B	Vial HCl preserved	A	NA	1.5 C	Y	Absent	MCP-8260
L0309907-03A	Vial HCl preserved	A	NA	1.5 C	Y	Absent	MCP-8260
L0309907-03B	Vial HCl preserved	A	NA	1.5 C	Y	Absent	MCP-8260
L0309907-04A	Vial HCl preserved	A	NA	1.5 C	Y	Absent	MCP-8260
L0309907-04B	Vial HCl preserved	A	NA	1.5 C	Y	Absent	MCP-8260
L0309907-05A	Vial HCl preserved	A	NA	1.5 C	Y	Absent	MCP-8260
L0309907-05B	Vial HCl preserved	A	NA	1.5 C	Y	Absent	MCP-8260
L0309907-06A	Vial HCl preserved	A	NA	1.5 C	Y	Absent	MCP-8260
L0309907-06B	Vial HCl preserved	A	NA	1.5 C	Y	Absent	MCP-8260
L0309907-07A	Vial HCl preserved	A	NA	1.5 C	Y	Absent	MCP-8260
L0309907-07B	Vial HCl preserved	A	NA	1.5 C	Y	Absent	MCP-8260
L0309907-08A	Vial HCl preserved	A	NA	1.5 C	Y	Absent	MCP-8260
L0309907-08B	Vial HCl preserved	A	NA	1.5 C	Y	Absent	MCP-8260
L0309907-09A	Vial HCl preserved	A	NA	1.5 C	Y	Absent	MCP-8260
L0309907-09B	Vial HCl preserved	A	NA	1.5 C	Y	Absent	MCP-8260
L0309907-10A	Vial HCl preserved	A	NA	1.5 C	Y	Absent	MCP-8260
L0309907-10B	Vial HCl preserved	A	NA	1.5 C	Y	Absent	MCP-8260
L0309907-10C	Plastic 250ml HNO3 preserved	A	<2	1.5 C	Y	Absent	AS-SI
L0309907-11A	Vial HCl preserved	A	NA	1.5 C	Y	Absent	MCP-8260
L0309907-11B	Vial HCl preserved	A	NA	1.5 C	Y	Absent	MCP-8260
L0309907-11C	Plastic 250ml HNO3 preserved	A	<2	1.5 C	Y	Absent	AS-SI
L0309907-12A	Vial HCl preserved	A	NA	1.5 C	Y	Absent	MCP-8260
L0309907-12B	Vial HCl preserved	A	NA	1.5 C	Y	Absent	MCP-8260
L0309907-12C	Plastic 250ml HNO3 preserved	A	<2	1.5 C	Y	Absent	AS-SI

Container Comments

Container ID Comments

CHAIN OF CUSTODY

PAGE 1 OF 2

ALPHA Job #: 0309907

Date Rec'd in Lab: 10/2/03

Report Information - Data Deliverables

Project Information

Project Name: Raytheon
 Project Location: Weyland, MA
 Project #: 1922 27.2
 Project Manager: J.P. Reid

Report Information - Data Deliverables

FAX EMAIL Add'l Deliverables hard
 ADEX Add'l Deliverables CD

Billing Information

Same as Client info PO #:

Client Information

Client: FIRM
 Address: 399 Baylston St Fl 6
Boston, MA 02116
 Phone: 617 267 8377
 Fax: 617 267 6447
 Email:

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?

Standard RUSH (only confirmed if pre-approved!)

Date Due: 10/9/03 Time:

These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

ANALYSIS
 BSC/C
 DRS. AB *

SAMPLE HANDLING
 Filtration
 Done
 Not needed
 Lab to do
 Preservation
 Lab to do
 (Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	TOTAL # BOTTLES
		Date	Time			
09907 1	MW-266S	10/2/03	1615	MW	WS	2
2	MW-266Mc	10/2/03	1658	MW	JFlat	2
3	MW-266Mb	10/2/03	1515	MW	WS	2
4	MW-266D	10/2/03	1520	MW	JFlat	2
5	MW-266B	10/2/03	1620	MW	VZ	2
6	MW-266S	10/2/03	1000	MW	JFlat	2
7	MW-265M	10/2/03	1230	MW	JFlat	2
8	MW-265D	10/2/03	1126	MW	JFlat	2
9	DUP-11	10/2/03	2400	MW	WS	2
10	MW-268S	10/2/03	1620	MW	KRF	2

*Field filtered using
 0.15 micron filter

QUESTIONS ABOVE MUST BE ANSWERED FOR PRESUMPTIVE CERTAINTY

IS YOUR PROJECT MCP?

Relinquished By: William R. Jones Date/Time: 10/11/03 1720
 Container Type: VP Preservative: BC
 Received By: Allen Reed Date/Time: 10/2/03 1715

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.

CHAIN OF CUSTODY

PAGE 2 OF 2

ALPHA Job #: 60309907

Date Rec'd in Lab: 10/2/03

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

Project Information

Project Name: Baygreen
 Project Location: Wayland, MA
 Project #: 1922-07-2
 Project Manager: J Picard

Report Information - Data Deliverables

FAX EMAIL
 ADDEX Add'l Deliverables *hand*

Billing Information

Same as Client info PO #:

Client Information

Client: ERM
 Address: 399 Baylston St Flk
 Boston, MA 02116
 Phone: 617 267 8377
 Fax: 617 267 6447
 Email:

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?

Standard RUSH (only confirmed if pre-approved!)

Date Due: 10/9/03 Time:

These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

ANALYSIS	DATE	TIME	SAMPLER'S INITIALS	COMMENTS
SO4/C	10/2/03	16:10	MC 21	
Diss Arsenic *	10/2/03	15:15	JTF 21	

SAMPLE HANDLING
 Filtration
 Done
 Not needed
 Lab to do
 Lab to do
 Preservation
 Lab to do
 Lab to do
 (Please specify below)

TOTAL # BOTTLES 3 3

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Container Type	Preservative	Date/Time	Relinquished By:	Requested By:	Date/Time
09907.11	MW-268M	10/2/03	16:10	MW	MC 21	VP	BC	10/2/03	[Signature]	[Signature]	10/2/03
12	MW-268B	10/2/03	15:15	MW	JTF 21	VP	BC	10/2/03	[Signature]	[Signature]	10/2/03
	MAF-12										

W hole filtered using 0.45 micron filter

QUESTIONS ABOVE MUST BE ANSWERED FOR PRESUMPTIVE CERTAINTY

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.