

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: L0408100
Address: 399 Boylston Street
6th Floor
Boston, MA 02116 Date Received: 23-JUL-2004
Attn: Jeremy Picard Date Reported: 30-JUL-2004
Project Number: 13606.03 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"? NO
- 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: Scott McLean
This document electronically signed

ALPHA ANALYTICAL LABORATORIES

Laboratory Job Number: L0408100
Date Reported: 30-JUL-2004

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0408100-01	MW-47S	WAYLAND, MA
L0408100-02	MW-47M	WAYLAND, MA
L0408100-03	MW-47D	WAYLAND, MA
L0408100-04	MW-202M	WAYLAND, MA
L0408100-05	MW-202S	WAYLAND, MA
L0408100-06	MW-403	WAYLAND, MA

ALPHA ANALYTICAL LABORATORIES
NARRATIVE REPORT

Laboratory Job Number: L0408100

Report Submission

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

Volatile Organics

L0408100-04 has elevated limits of detection due to the 4x dilutions required by the elevated concentrations of target compounds in the sample.

L0408100-06 has elevated limits of detection due to the 5x dilutions required by the elevated concentrations of target compounds in the sample.

In reference to question C, the pH is > 2 on L0408100-06.

In reference to question E, the WG176912-1 LCS has a low recovery for bromomethane, a difficult analyte.

In reference to question E, the WG176912-2 LCSD has a low recovery for bromomethane, a difficult analyte.

In reference to question E, the WG176974-4,5 LCS/LCSD has high recoveries for chloromethane.

In reference to question E, the WG177116-1,2 LCS/LCSD have high recoveries for dichlorodifluoromethane.

In reference to question E, the WG1771541-1 LCS has high a recovery for chloromethane.

**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: L0408100-01	Date Collected: 23-JUL-2004 08:45
MW-47S	Date Received : 23-JUL-2004
Sample Matrix: WATER	Date Reported : 30-JUL-2004
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	0729 01:58	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	3.1	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	11.	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: L0408100-01
 MW-47S

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B continued				60 8260B	0729 01:58		RY
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	106.	%		70-130			
Toluene-d8	102.	%		70-130			
4-Bromofluorobenzene	130.	%		70-130			
Dibromofluoromethane	104.	%		70-130			

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

**ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS**

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

Laboratory Sample Number:	L0408100-02	Date Collected:	23-JUL-2004 10:05
	MW-47M	Date Received :	23-JUL-2004
Sample Matrix:	WATER	Date Reported :	30-JUL-2004
Condition of Sample:	Satisfactory	Field Prep:	None
Number & Type of Containers:	2-Vial		

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B				60 8260B	0730 11:07		BT
Methylene chloride	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	0.75				
Chloroform	ND	ug/l	0.75				
Carbon tetrachloride	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	1.8				
Dibromochloromethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.75				
Tetrachloroethene	1.4	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	47.	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	3.9	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: L0408100-02
 MW-47M

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B continued				60 8260B	0730 11:07		BT
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	100.	%		70-130			
Toluene-d8	103.	%		70-130			
4-Bromofluorobenzene	112.	%		70-130			
Dibromofluoromethane	100.	%		70-130			

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

ALPHA ANALYTICAL LABORATORIES
 CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0408100-03
 MW-47D

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B continued				60 8260B	0729 17:37		RY
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	100.	%		70-130			
Toluene-d8	99.0	%		70-130			
4-Bromofluorobenzene	130.	%		70-130			
Dibromofluoromethane	103.	%		70-130			

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

**ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS**

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

Laboratory Sample Number:	L0408100-04	Date Collected:	23-JUL-2004 13:50
	MW-202M	Date Received :	23-JUL-2004
Sample Matrix:	WATER	Date Reported :	30-JUL-2004
Condition of Sample:	Satisfactory	Field Prep:	None
Number & Type of Containers:	2-Vial		

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B				60 8260B	0730 12:26		BT
Methylene chloride	ND	ug/l	20.				
1,1-Dichloroethane	ND	ug/l	3.0				
Chloroform	ND	ug/l	3.0				
Carbon tetrachloride	ND	ug/l	2.0				
1,2-Dichloropropane	ND	ug/l	7.0				
Dibromochloromethane	ND	ug/l	2.0				
1,1,2-Trichloroethane	ND	ug/l	3.0				
Tetrachloroethene	ND	ug/l	2.0				
Chlorobenzene	ND	ug/l	2.0				
1,2-Dichloroethane	ND	ug/l	2.0				
1,1,1-Trichloroethane	19.	ug/l	2.0				
Bromodichloromethane	ND	ug/l	2.0				
trans-1,3-Dichloropropene	ND	ug/l	2.0				
cis-1,3-Dichloropropene	ND	ug/l	2.0				
Bromoform	ND	ug/l	8.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	2.0				
Benzene	ND	ug/l	2.0				
Chloromethane	ND	ug/l	10.				
Vinyl chloride	ND	ug/l	4.0				
Chloroethane	ND	ug/l	4.0				
1,1-Dichloroethene	2.4	ug/l	2.0				
trans-1,2-Dichloroethene	ND	ug/l	3.0				
Trichloroethene	70.	ug/l	2.0				
1,2-Dichlorobenzene	ND	ug/l	10.				
1,3-Dichlorobenzene	ND	ug/l	10.				
1,4-Dichlorobenzene	ND	ug/l	10.				
Methyl tert butyl ether	140	ug/l	4.0				
cis-1,2-Dichloroethene	ND	ug/l	2.0				
Dichlorodifluoromethane	ND	ug/l	20.				
1,2-Dibromoethane	ND	ug/l	8.0				
1,3-Dichloropropane	ND	ug/l	10.				
1,1,1,2-Tetrachloroethane	ND	ug/l	2.0				
o-Chlorotoluene	ND	ug/l	10.				
p-Chlorotoluene	ND	ug/l	10.				
Hexachlorobutadiene	ND	ug/l	4.0				
1,2,4-Trichlorobenzene	ND	ug/l	10.				

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

ALPHA ANALYTICAL LABORATORIES
 CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0408100-04
 MW-202M

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B continued				60 8260B	0730 12:26		BT
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	100.	%		70-130			
Toluene-d8	102.	%		70-130			
4-Bromofluorobenzene	108.	%		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: L0408100-05	Date Collected: 23-JUL-2004 14:55
MW-202S	Date Received : 23-JUL-2004
Sample Matrix: WATER	Date Reported : 30-JUL-2004
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	0730 11:46 BT	
Methylene chloride	ND	ug/l	5.0			
1,1-Dichloroethane	ND	ug/l	0.75			
Chloroform	ND	ug/l	0.75			
Carbon tetrachloride	ND	ug/l	0.50			
1,2-Dichloropropane	ND	ug/l	1.8			
Dibromochloromethane	ND	ug/l	0.50			
1,1,2-Trichloroethane	ND	ug/l	0.75			
Tetrachloroethene	ND	ug/l	0.50			
Chlorobenzene	ND	ug/l	0.50			
1,2-Dichloroethane	ND	ug/l	0.50			
1,1,1-Trichloroethane	ND	ug/l	0.50			
Bromodichloromethane	ND	ug/l	0.50			
trans-1,3-Dichloropropene	ND	ug/l	0.50			
cis-1,3-Dichloropropene	ND	ug/l	0.50			
Bromoform	ND	ug/l	2.0			
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50			
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	0.97	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: L0408100-05
 MW-202S

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B continued				60 8260B	0730 11:46		BT
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	103.	%		70-130			
Toluene-d8	100.	%		70-130			
4-Bromofluorobenzene	107.	%		70-130			
Dibromofluoromethane	101.	%		70-130			

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

ALPHA ANALYTICAL LABORATORIES
 CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0408100-06
 MW-403

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B continued				60 8260B	0728 13:57		RY
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	101.	%		70-130			
Toluene-d8	99.0	%		70-130			
4-Bromofluorobenzene	129.	%		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: L0408100

Parameter	LCS %	LCSD %	RPD	RPD Limit	QC Limits
Volatile Organics by MCP 8260B for sample(s) 06 (WG176912-1, WG176912)					
Methylene chloride	86	89	3	25	70-130
1,1-Dichloroethane	89	93	4	25	70-130
Chloroform	96	93	3	25	70-130
Carbon tetrachloride	96	90	6	25	70-130
1,2-Dichloropropane	90	91	1	25	70-130
Dibromochloromethane	90	92	2	25	70-130
1,1,2-Trichloroethane	89	93	4	25	70-130
Tetrachloroethene	96	96	0	25	70-130
Chlorobenzene	92	97	5	25	70-130
Trichlorofluoromethane	87	80	8	25	70-130
1,2-Dichloroethane	92	92	0	25	70-130
1,1,1-Trichloroethane	97	93	4	25	70-130
Bromodichloromethane	94	94	0	25	70-130
trans-1,3-Dichloropropene	88	90	2	25	70-130
cis-1,3-Dichloropropene	90	93	3	25	70-130
1,1-Dichloropropene	88	84	5	25	70-130
Bromoform	99	105	6	50	70-130
1,1,2,2-Tetrachloroethane	98	99	1	25	70-130
Benzene	87	91	4	25	70-130
Toluene	92	95	3	25	70-130
Ethylbenzene	92	96	4	25	70-130
Chloromethane	81	83	2	50	70-130
Bromomethane	57	69	19	50	70-130
Vinyl chloride	81	76	6	25	70-130
Chloroethane	79	78	1	25	70-130
1,1-Dichloroethene	80	77	4	25	70-130
trans-1,2-Dichloroethene	84	83	1	25	70-130
Trichloroethene	91	89	2	25	70-130
1,2-Dichlorobenzene	95	101	6	25	70-130
1,3-Dichlorobenzene	98	102	4	25	70-130
1,4-Dichlorobenzene	97	100	3	25	70-130
Methyl tert butyl ether	88	85	3	25	70-130
p/m-Xylene	94	97	3	25	70-130
o-Xylene	90	94	4	25	70-130
cis-1,2-Dichloroethene	90	88	2	25	70-130
Dibromomethane	95	95	0	25	70-130
1,2,3-Trichloropropane	96	99	3	25	70-130
Styrene	92	96	4	25	70-130
Dichlorodifluoromethane	102	91	11	50	70-130
Acetone	106	101	5	50	70-130
Carbon disulfide	82	80	2	25	70-130
2-Butanone	114	99	14	50	70-130
4-Methyl-2-pentanone	97	93	4	50	70-130
2-Hexanone	107	92	15	50	70-130
Bromochloromethane	98	97	1	25	70-130
Tetrahydrofuran	88	100	13	25	70-130
2,2-Dichloropropane	103	104	1	25	70-130
1,2-Dibromoethane	90	92	2	25	70-130

ALPHA ANALYTICAL LABORATORIES
 QUALITY ASSURANCE BATCH LCS/LCSD ANALYSIS

Laboratory Job Number: L0408100

Continued

Parameter	LCS %	LCSD %	RPD	RPD Limit	QC Limits
Volatile Organics by MCP 8260B for sample(s) 06 (WG176912-1, WG176912)					
1,3-Dichloropropane	88	90	2	25	70-130
1,1,1,2-Tetrachloroethane	94	98	4	25	70-130
Bromobenzene	96	98	2	25	70-130
n-Butylbenzene	90	91	1	25	70-130
sec-Butylbenzene	96	100	4	25	70-130
tert-Butylbenzene	97	100	3	25	70-130
o-Chlorotoluene	101	102	1	25	70-130
p-Chlorotoluene	98	100	2	25	70-130
1,2-Dibromo-3-chloropropane	90	94	4	50	70-130
Hexachlorobutadiene	96	106	10	25	70-130
Isopropylbenzene	94	97	3	25	70-130
p-Isopropyltoluene	90	93	3	25	70-130
Naphthalene	92	96	4	25	70-130
n-Propylbenzene	99	103	4	25	70-130
1,2,3-Trichlorobenzene	94	98	4	25	70-130
1,2,4-Trichlorobenzene	95	99	4	25	70-130
1,3,5-Trimethylbenzene	94	91	3	25	70-130
1,2,4-Trimethylbenzene	92	91	1	25	70-130
Ethyl ether	78	75	4	25	70-130
Isopropyl Ether	85	87	2	25	70-130
Ethyl-Tert-Butyl-Ether	84	85	1	25	70-130
Tertiary-Amyl Methyl Ether	86	89	3	25	70-130
1,4-Dioxane	99	92	7	50	70-130
Surrogate(s)					
1,2-Dichloroethane-d4	104	101	3		70-130
Toluene-d8	101	101	0		70-130
4-Bromofluorobenzene	102	102	0		70-130
Dibromofluoromethane	101	100	1		70-130
Volatile Organics by MCP 8260B for sample(s) 01 (WG176974-1, WG176974)					
Methylene chloride	90	94	4	25	70-130
1,1-Dichloroethane	91	100	9	25	70-130
Chloroform	96	101	5	25	70-130
Carbon tetrachloride	92	98	6	25	70-130
1,2-Dichloropropane	91	96	5	25	70-130
Dibromochloromethane	88	95	8	25	70-130
1,1,2-Trichloroethane	89	98	10	25	70-130
Tetrachloroethene	91	100	9	25	70-130
Chlorobenzene	90	97	7	25	70-130
1,2-Dichloroethane	94	97	3	25	70-130
1,1,1-Trichloroethane	96	101	5	25	70-130
Bromodichloromethane	95	98	3	25	70-130
trans-1,3-Dichloropropene	86	92	7	25	70-130
cis-1,3-Dichloropropene	93	97	4	25	70-130
Bromoform	98	102	4	50	70-130
1,1,2,2-Tetrachloroethane	90	98	9	25	70-130

ALPHA ANALYTICAL LABORATORIES
 QUALITY ASSURANCE BATCH LCS/LCSD ANALYSIS

Laboratory Job Number: L0408100

Continued

Parameter	LCS %	LCSD %	RPD	RPD Limit	QC Limits
Volatile Organics by MCP 8260B for sample(s) 01 (WG176974-1, WG176974)					
Benzene	91	97	6	25	70-130
Chloromethane	76	84	10	50	70-130
Vinyl chloride	78	82	5	25	70-130
Chloroethane	76	87	13	25	70-130
1,1-Dichloroethene	79	84	6	25	70-130
trans-1,2-Dichloroethene	85	92	8	25	70-130
Trichloroethene	90	95	5	25	70-130
1,2-Dichlorobenzene	91	100	9	25	70-130
1,3-Dichlorobenzene	93	104	11	25	70-130
1,4-Dichlorobenzene	90	98	9	25	70-130
Methyl tert butyl ether	93	98	5	25	70-130
cis-1,2-Dichloroethene	92	94	2	25	70-130
Dichlorodifluoromethane	79	93	16	50	70-130
1,2-Dibromoethane	89	96	8	25	70-130
1,3-Dichloropropane	89	94	5	25	70-130
1,1,1,2-Tetrachloroethane	93	96	3	25	70-130
o-Chlorotoluene	92	103	11	25	70-130
p-Chlorotoluene	91	102	11	25	70-130
Hexachlorobutadiene	83	93	11	25	70-130
1,2,4-Trichlorobenzene	92	100	8	25	70-130
Surrogate(s)					
1,2-Dichloroethane-d4	99	102	3		70-130
Toluene-d8	99	100	1		70-130
4-Bromofluorobenzene	101	100	1		70-130
Dibromofluoromethane	100	101	1		70-130
Volatile Organics by MCP 8260B for sample(s) 03 (WG177116-1, WG177116)					
Methylene chloride	90	83	8	25	70-130
1,1-Dichloroethane	89	86	3	25	70-130
Chloroform	91	84	8	25	70-130
Carbon tetrachloride	93	85	9	25	70-130
1,2-Dichloropropane	85	85	0	25	70-130
Dibromochloromethane	87	78	11	25	70-130
1,1,2-Trichloroethane	87	82	6	25	70-130
Tetrachloroethene	90	82	9	25	70-130
Chlorobenzene	88	80	10	25	70-130
1,2-Dichloroethane	87	84	4	25	70-130
1,1,1-Trichloroethane	93	86	8	25	70-130
Bromodichloromethane	89	83	7	25	70-130
trans-1,3-Dichloropropene	83	76	9	25	70-130
cis-1,3-Dichloropropene	85	80	6	25	70-130
Bromoform	89	81	9	50	70-130
1,1,2,2-Tetrachloroethane	89	85	5	25	70-130
Benzene	89	82	8	25	70-130
Chloromethane	107	102	5	50	70-130
Vinyl chloride	100	92	8	25	70-130

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH LCS/LCSD ANALYSIS

Laboratory Job Number: L0408100

Continued

Parameter	LCS %	LCSD %	RPD	RPD Limit	QC Limits
Volatile Organics by MCP 8260B for sample(s) 03 (WG177116-1, WG177116)					
Chloroethane	87	80	8	25	70-130
1,1-Dichloroethene	87	80	8	25	70-130
trans-1,2-Dichloroethene	91	83	9	25	70-130
Trichloroethene	89	81	9	25	70-130
1,2-Dichlorobenzene	90	83	8	25	70-130
1,3-Dichlorobenzene	92	84	9	25	70-130
1,4-Dichlorobenzene	89	80	11	25	70-130
Methyl tert butyl ether	85	83	2	25	70-130
cis-1,2-Dichloroethene	91	83	9	25	70-130
Dichlorodifluoromethane	157	140	11	50	70-130
1,2-Dibromoethane	86	80	7	25	70-130
1,3-Dichloropropane	86	81	6	25	70-130
1,1,1,2-Tetrachloroethane	92	85	8	25	70-130
o-Chlorotoluene	92	84	9	25	70-130
p-Chlorotoluene	90	82	9	25	70-130
Hexachlorobutadiene	80	74	8	25	70-130
1,2,4-Trichlorobenzene	89	88	1	25	70-130
Surrogate(s)					
1,2-Dichloroethane-d4	98	96	2		70-130
Toluene-d8	98	98	0		70-130
4-Bromofluorobenzene	100	103	3		70-130
Dibromofluoromethane	102	99	3		70-130
Volatile Organics by MCP 8260B for sample(s) 02,04-05 (WG177154-1, WG177154)					
Methylene chloride	89	86	3	25	70-130
1,1-Dichloroethane	91	86	6	25	70-130
Chloroform	87	86	1	25	70-130
Carbon tetrachloride	89	83	7	25	70-130
1,2-Dichloropropane	92	87	6	25	70-130
Dibromochloromethane	80	79	1	25	70-130
1,1,2-Trichloroethane	94	95	1	25	70-130
Tetrachloroethene	78	75	4	25	70-130
Chlorobenzene	90	87	3	25	70-130
Trichlorofluoromethane	91	87	4	25	70-130
1,2-Dichloroethane	92	88	4	25	70-130
1,1,1-Trichloroethane	89	83	7	25	70-130
Bromodichloromethane	82	81	1	25	70-130
trans-1,3-Dichloropropene	88	89	1	25	70-130
cis-1,3-Dichloropropene	92	88	4	25	70-130
1,1-Dichloropropene	84	78	7	25	70-130
Bromoform	75	75	0	50	70-130
1,1,2,2-Tetrachloroethane	96	99	3	25	70-130
Benzene	91	88	3	25	70-130
Toluene	90	88	2	25	70-130
Ethylbenzene	94	90	4	25	70-130
Chloromethane	134	129	4	50	70-130

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH LCS/LCSD ANALYSIS

Laboratory Job Number: L0408100

Continued

Parameter	LCS %	LCSD %	RPD	RPD Limit	QC Limits
Volatile Organics by MCP 8260B for sample(s) 02,04-05 (WG177154-1, WG177154)					
Bromomethane	112	109	3	50	70-130
Vinyl chloride	92	87	6	25	70-130
Chloroethane	88	84	5	25	70-130
1,1-Dichloroethene	82	78	5	25	70-130
trans-1,2-Dichloroethene	85	80	6	25	70-130
Trichloroethene	86	80	7	25	70-130
1,2-Dichlorobenzene	88	89	1	25	70-130
1,3-Dichlorobenzene	87	86	1	25	70-130
1,4-Dichlorobenzene	89	87	2	25	70-130
Methyl tert butyl ether	113	109	4	25	70-130
p/m-Xylene	92	90	2	25	70-130
o-Xylene	92	90	2	25	70-130
cis-1,2-Dichloroethene	90	89	1	25	70-130
Dibromomethane	90	89	1	25	70-130
1,2,3-Trichloropropane	101	98	3	25	70-130
Styrene	95	93	2	25	70-130
Dichlorodifluoromethane	111	104	7	50	70-130
Acetone	102	104	2	50	70-130
Carbon disulfide	80	75	6	25	70-130
2-Butanone	112	115	3	50	70-130
4-Methyl-2-pentanone	100	105	5	50	70-130
2-Hexanone	110	122	10	50	70-130
Bromochloromethane	90	86	5	25	70-130
Tetrahydrofuran	103	102	1	25	70-130
2,2-Dichloropropane	94	92	2	25	70-130
1,2-Dibromoethane	94	93	1	25	70-130
1,3-Dichloropropane	92	91	1	25	70-130
1,1,1,2-Tetrachloroethane	90	88	2	25	70-130
Bromobenzene	90	90	0	25	70-130
n-Butylbenzene	89	85	5	25	70-130
sec-Butylbenzene	88	84	5	25	70-130
tert-Butylbenzene	90	88	2	25	70-130
o-Chlorotoluene	92	91	1	25	70-130
p-Chlorotoluene	92	91	1	25	70-130
1,2-Dibromo-3-chloropropane	91	90	1	50	70-130
Hexachlorobutadiene	86	82	5	25	70-130
Isopropylbenzene	88	86	2	25	70-130
p-Isopropyltoluene	89	86	3	25	70-130
Naphthalene	82	79	4	25	70-130
n-Propylbenzene	92	88	4	25	70-130
1,2,3-Trichlorobenzene	85	81	5	25	70-130
1,2,4-Trichlorobenzene	81	77	5	25	70-130
1,3,5-Trimethylbenzene	91	88	3	25	70-130
1,2,4-Trimethylbenzene	90	89	1	25	70-130
Ethyl ether	95	94	1	25	70-130
Isopropyl Ether	103	100	3	25	70-130
Ethyl-Tert-Butyl-Ether	100	98	2	25	70-130

ALPHA ANALYTICAL LABORATORIES
 QUALITY ASSURANCE BATCH LCS/LCSD ANALYSIS

Laboratory Job Number: L0408100

Continued

Parameter	LCS %	LCSD %	RPD	RPD Limit	QC Limits
Volatile Organics by MCP 8260B for sample(s) 02,04-05 (WG177154-1, WG177154)					
Tertiary-Amyl Methyl Ether	103	103	0	25	70-130
1,4-Dioxane	98	94	4	50	70-130
Surrogate(s)					
1,2-Dichloroethane-d4	104	101	3		70-130
Toluene-d8	102	102	0		70-130
4-Bromofluorobenzene	107	106	1		70-130
Dibromofluoromethane	100	97	3		70-130

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0408100

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 06 (WG176912-3)							
Volatile Organics by MCP 8260B				60 8260B	0728 10:22 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				
Surrogate(s)	Recovery		QC Criteria				
1,2-Dichloroethane-d4	102.	%	70-130				
Toluene-d8	104.	%	70-130				
4-Bromofluorobenzene	130.	%	70-130				
Dibromofluoromethane	100.	%	70-130				
Blank Analysis for sample(s) 01 (WG176974-3)							
Volatile Organics by MCP 8260B				60 8260B	0728 16:06 RY		
Methylene chloride	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	0.75				

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0408100

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 01 (WG176974-3)							
Volatile Organics by MCP 8260B continued				60 8260B	0728 16:06 RY		
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				

Surrogate(s)	Recovery		QC Criteria
1,2-Dichloroethane-d4	98.0	%	70-130
Toluene-d8	100.	%	70-130
4-Bromofluorobenzene	120.	%	70-130
Dibromofluoromethane	98.0	%	70-130

Blank Analysis for sample(s) 03 (WG177116-3)							
Volatile Organics by MCP 8260B				60 8260B	0729 16:25 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				

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0408100

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 03 (WG177116-3)							
Volatile Organics by MCP 8260B continued				60 8260B	0729 16:25		RY
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				
Surrogate(s)		Recovery		QC Criteria			
1,2-Dichloroethane-d4	99.0	%	70-130				
Toluene-d8	100.	%	70-130				
4-Bromofluorobenzene	125.	%	70-130				
Dibromofluoromethane	100.	%	70-130				
Blank Analysis for sample(s) 02,04-05 (WG177154-3)							
Volatile Organics by MCP 8260B				60 8260B	0730 08:01		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				

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0408100

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 02,04-05 (WG177154-3)							
Volatile Organics by MCP 8260B continued				60 8260B	0730 08:01 BT		
1,1,2-Trichloroethane	ND	ug/l	0.75				
Tetrachloroethene	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	2.5				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
Bromodichloromethane	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
1,1-Dichloropropene	ND	ug/l	2.5				
Bromoform	ND	ug/l	2.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Benzene	ND	ug/l	0.50				
Toluene	ND	ug/l	0.75				
Ethylbenzene	ND	ug/l	0.50				
Chloromethane	ND	ug/l	2.5				
Bromomethane	ND	ug/l	1.0				
Vinyl chloride	ND	ug/l	1.0				
Chloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.75				
Trichloroethene	ND	ug/l	0.50				
1,2-Dichlorobenzene	ND	ug/l	2.5				
1,3-Dichlorobenzene	ND	ug/l	2.5				
1,4-Dichlorobenzene	ND	ug/l	2.5				
Methyl tert butyl ether	ND	ug/l	1.0				
p/m-Xylene	ND	ug/l	0.50				
o-Xylene	ND	ug/l	0.50				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
Dibromomethane	ND	ug/l	5.0				
1,2,3-Trichloropropane	ND	ug/l	5.0				
Styrene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
Acetone	ND	ug/l	5.0				
Carbon disulfide	ND	ug/l	5.0				
2-Butanone	ND	ug/l	5.0				
4-Methyl-2-pentanone	ND	ug/l	5.0				
2-Hexanone	ND	ug/l	5.0				
Bromochloromethane	ND	ug/l	2.5				
Tetrahydrofuran	ND	ug/l	10.				
2,2-Dichloropropane	ND	ug/l	2.5				
1,2-Dibromoethane	ND	ug/l	2.0				
1,3-Dichloropropane	ND	ug/l	2.5				
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50				
Bromobenzene	ND	ug/l	2.5				
n-Butylbenzene	ND	ug/l	0.50				
sec-Butylbenzene	ND	ug/l	0.50				

ALPHA ANALYTICAL LABORATORIES
 QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0408100

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 02,04-05 (WG177154-3)							
Volatile Organics by MCP 8260B continued				60 8260B	0730 08:01 BT		
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	105.	%		70-130			
Toluene-d8	106.	%		70-130			
4-Bromofluorobenzene	115.	%		70-130			
Dibromofluoromethane	105.	%		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.

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: L0408100

Were project specific reporting limits specified? NO

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp	Pres	Seal	Analysis
L0408100-01A	Vial HCl preserved	A	N/A	1.6C	Y	Absent	MCP-8260-04
L0408100-01B	Vial HCl preserved	A	N/A	1.6C	Y	Absent	MCP-8260-04
L0408100-02A	Vial HCl preserved	A	N/A	1.6C	Y	Absent	MCP-8260-04
L0408100-02B	Vial HCl preserved	A	N/A	1.6C	Y	Absent	MCP-8260-04
L0408100-03A	Vial HCl preserved	A	N/A	1.6C	Y	Absent	MCP-8260-04
L0408100-03B	Vial HCl preserved	A	N/A	1.6C	Y	Absent	MCP-8260-04
L0408100-04A	Vial HCl preserved	A	N/A	1.6C	Y	Absent	MCP-8260-04
L0408100-04B	Vial HCl preserved	A	N/A	1.6C	Y	Absent	MCP-8260-04
L0408100-05A	Vial HCl preserved	A	N/A	1.6C	Y	Absent	MCP-8260-04
L0408100-05B	Vial HCl preserved	A	N/A	1.6C	Y	Absent	MCP-8260-04
L0408100-06A	Vial Na2S2O3 preserved	A	N/A	1.6C	Y	Absent	MCP-8260-04
L0408100-06B	Vial Na2S2O3 preserved	A	N/A	1.6C	Y	Absent	MCP-8260-04

Container Comments

Container ID	Comments
--------------	----------



CHAIN OF CUSTODY

PAGE 1 OF 1

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

Client Information

Client: ELM

Address: 344 Baylston St

Phone: Boston MA 02116

Fax: 617 267 6947

Email:

Project Information

Project Name: Raytheon

Project Location: Wayland

Project #: 13606-03

Project Manager: Picard

ALPHA Quote #:

Turn-Around Time

Standard RUSH (only confirmed if pre-approved)

Date Due: 7-30-04

These samples have been previously analyzed by Alpha
Other Project Specific Requirements/Comments/Detection Limits:
Reservative X1 = Suburban THIOSULFATE
7 DAY HOLD

Date Recd in Lab: 7-23-04

ALPHA Job #: LA408000

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?

ANALYSIS
CVOC 8021 + MTBE
Benzene
CVOC 80218 + MTBE
BENZENE

SAMPLE HANDLING
 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	Container Type	Date/Time	Received By:	Date/Time	Sample Specific Comments
		Date	Time							
8100	1	MW-475	7/23/04	845	GW	JF/dt	2	0		
	2	MW-474	7/23/04	1005	GW	JF/dt	2	0		
	3	MW-470	9/23/04	1105	GW	JF/dt	2	0		
	4	MW-2024	7/23/04	1330	GW	JF/dt	2	0		
	5	MW-2025	7/23/04	1455	GW	JF/dt	2	0		
	6	MW-403	7/23/04	1640	GW	JF/dt	2	0		

QUESTIONS ABOVE MUST BE ANSWERED FOR PRESUMPTIVE CERTAINTY

Container Type
 Preservative

Relinquished By:

Date/Time

Received By:

Date/Time

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 Alphas Payment Terms. See reverse side.