

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: L0413789
Address: 399 Boylston Street
6th Floor
Boston, MA 02116 Date Received: 09-DEC-2004
Attn: Jeremy Picard Date Reported: 14-DEC-2004
Project Number: 13606 Delivery Method: Alpha
Site: RAYTHEON WAYLAND

The following questions pertain only to MCP Analytical Methods

An affirmative response to questions A,B,C & D is required for "Presumptive Certainty" status

- A. Were all samples received by the laboratory in a condition consistent with those described on their Chain-of-Custody documentation for the data set? YES
- B. Were all QA/QC procedures required for the specified analytical method(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines? YES
- C. Does the analytical data included in this report meet all the requirements for "Presumptive Certainty", as described in section 2.0 of the MADEP document CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"? YES
- D. **VPH and EPH methods only:** Was the VPH or EPH method run without significant modifications, as specified in Section 11.3? NA

A response to questions E and F is required for "Presumptive Certainty" status

- E. Were all QC performance standards and recommendations for the specified method(s) achieved? 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: L0413789

Date Reported: 14-DEC-2004

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0413789-01	MW-203S	WAYLAND
L0413789-02	MW-204D	WAYLAND
L0413789-03	MW-204S	WAYLAND
L0413789-04	MW-204M	WAYLAND
L0413789-05	MW-205S	WAYLAND
L0413789-06	MW-205M	WAYLAND
L0413789-07	FD-08	WAYLAND
L0413789-08	MW-205D	WAYLAND

ALPHA ANALYTICAL LABORATORIES
NARRATIVE REPORT

Laboratory Job Number: L0413789

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

L0413789-04 has elevated limits of detection due to the 4x dilutions required by the elevated concentrations of target compounds in the sample.

L0413789-06 and -07 have elevated limits of detection due to the 2.5x dilutions required by the elevated concentrations of target compounds in the sample.

In reference to question E:

The WG188545-7,8 LCS,LCSD have low recoveries for acetone, 2-butanone, 2-hexanone and a high recovery for chloromethane (in the MS), all difficult analytes. Also have low recoveries and an elevated RPD for 2,2-dichloropropane, but this analyte is not an analyte of concern in any associated samples.

**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: L0413789-01	Date Collected: 08-DEC-2004 08:45
MW-203S	Date Received : 09-DEC-2004
Sample Matrix: WATER	Date Reported : 14-DEC-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	1211 22:39 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	13.	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	2.8	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: L0413789-01
MW-203S

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B continued				60 8260B	1211 22:39		BT
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	109.	%		70-130			
Toluene-d8	100.	%		70-130			
4-Bromofluorobenzene	99.0	%		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:	L0413789-02	Date Collected:	08-DEC-2004 09:50
	MW-204D	Date Received :	09-DEC-2004
Sample Matrix:	WATER	Date Reported :	14-DEC-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	1211 23:15	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	2.5	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: L0413789-02
 MW-204D

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B continued				60 8260B	1211 23:15		BT
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	108.	%		70-130			
Toluene-d8	103.	%		70-130			
4-Bromofluorobenzene	100.	%		70-130			
Dibromofluoromethane	99.0	%		70-130			

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

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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:	L0413789-03	Date Collected:	08-DEC-2004 10:45
	MW-204S	Date Received :	09-DEC-2004
Sample Matrix:	WATER	Date Reported :	14-DEC-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	1211 23:51	BT
Methylene chloride	ND	ug/l	5.0			
1,1-Dichloroethane	ND	ug/l	0.75			
Chloroform	1.0	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	8.7	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	2.4	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: L0413789-03
MW-204S

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B continued				60 8260B	1211 23:51		BT
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	106.	%		70-130			
Toluene-d8	103.	%		70-130			
4-Bromofluorobenzene	103.	%		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: L0413789-04	Date Collected: 08-DEC-2004 12:00
MW-204M	Date Received : 09-DEC-2004
Sample Matrix: WATER	Date Reported : 14-DEC-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	1213 14:14	TT
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	34.	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	3.6	ug/l	2.0			
trans-1,2-Dichloroethene	ND	ug/l	3.0			
Trichloroethene	160	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	54.	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: L0413789-04
 MW-204M

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B continued				60 8260B	1213 14:14		TT
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	114.	%		70-130			
Toluene-d8	101.	%		70-130			
4-Bromofluorobenzene	104.	%		70-130			
Dibromofluoromethane	112.	%		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: L0413789-05	Date Collected: 08-DEC-2004 13:55
MW-205S	Date Received : 09-DEC-2004
Sample Matrix: WATER	Date Reported : 14-DEC-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	1212 00:27 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	0.74	ug/l	0.50			
Chlorobenzene	ND	ug/l	0.50			
1,2-Dichloroethane	ND	ug/l	0.50			
1,1,1-Trichloroethane	ND	ug/l	0.50			
Bromodichloromethane	ND	ug/l	0.50			
trans-1,3-Dichloropropene	ND	ug/l	0.50			
cis-1,3-Dichloropropene	ND	ug/l	0.50			
Bromoform	ND	ug/l	2.0			
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50			
Benzene	ND	ug/l	0.50			
Chloromethane	ND	ug/l	2.5			
Vinyl chloride	ND	ug/l	1.0			
Chloroethane	ND	ug/l	1.0			
1,1-Dichloroethene	ND	ug/l	0.50			
trans-1,2-Dichloroethene	ND	ug/l	0.75			
Trichloroethene	ND	ug/l	0.50			
1,2-Dichlorobenzene	ND	ug/l	2.5			
1,3-Dichlorobenzene	ND	ug/l	2.5			
1,4-Dichlorobenzene	ND	ug/l	2.5			
Methyl tert butyl ether	ND	ug/l	1.0			
cis-1,2-Dichloroethene	ND	ug/l	0.50			
Dichlorodifluoromethane	ND	ug/l	5.0			
1,2-Dibromoethane	ND	ug/l	2.0			
1,3-Dichloropropane	ND	ug/l	2.5			
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50			
o-Chlorotoluene	ND	ug/l	2.5			
p-Chlorotoluene	ND	ug/l	2.5			
Hexachlorobutadiene	ND	ug/l	1.0			
1,2,4-Trichlorobenzene	ND	ug/l	2.5			

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

**ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0413789-05
MW-205S

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B continued				60 8260B	1212 00:27		BT
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	108.	%		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: L0413789-06
MW-205M
Sample Matrix: WATER

Date Collected: 08-DEC-2004 15:00
Date Received : 09-DEC-2004
Date Reported : 14-DEC-2004

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B				60 8260B	1214 00:41 SE		
Methylene chloride	ND	ug/l	12.				
1,1-Dichloroethane	ND	ug/l	1.9				
Chloroform	ND	ug/l	1.9				
Carbon tetrachloride	ND	ug/l	1.2				
1,2-Dichloropropane	ND	ug/l	4.4				
Dibromochloromethane	ND	ug/l	1.2				
1,1,2-Trichloroethane	ND	ug/l	1.9				
Tetrachloroethene	ND	ug/l	1.2				
Chlorobenzene	ND	ug/l	1.2				
1,2-Dichloroethane	ND	ug/l	1.2				
1,1,1-Trichloroethane	4.2	ug/l	1.2				
Bromodichloromethane	ND	ug/l	1.2				
trans-1,3-Dichloropropene	ND	ug/l	1.2				
cis-1,3-Dichloropropene	ND	ug/l	1.2				
Bromoform	ND	ug/l	5.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	1.2				
Benzene	ND	ug/l	1.2				
Chloromethane	ND	ug/l	6.2				
Vinyl chloride	ND	ug/l	2.5				
Chloroethane	ND	ug/l	2.5				
1,1-Dichloroethene	ND	ug/l	1.2				
trans-1,2-Dichloroethene	ND	ug/l	1.9				
Trichloroethene	23.	ug/l	1.2				
1,2-Dichlorobenzene	ND	ug/l	6.2				
1,3-Dichlorobenzene	ND	ug/l	6.2				
1,4-Dichlorobenzene	ND	ug/l	6.2				
Methyl tert butyl ether	190	ug/l	2.5				
cis-1,2-Dichloroethene	ND	ug/l	1.2				
Dichlorodifluoromethane	ND	ug/l	12.				
1,2-Dibromoethane	ND	ug/l	5.0				
1,3-Dichloropropane	ND	ug/l	6.2				
1,1,1,2-Tetrachloroethane	ND	ug/l	1.2				
o-Chlorotoluene	ND	ug/l	6.2				
p-Chlorotoluene	ND	ug/l	6.2				
Hexachlorobutadiene	ND	ug/l	2.5				
1,2,4-Trichlorobenzene	ND	ug/l	6.2				

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

ALPHA ANALYTICAL LABORATORIES
 CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0413789-06
 MW-205M

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B continued				60 8260B	1214 00:41		SE
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	112.	%		70-130			
Toluene-d8	102.	%		70-130			
4-Bromofluorobenzene	102.	%		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: L0413789-07	Date Collected: 08-DEC-2004 15:00
FD-08	Date Received : 09-DEC-2004
Sample Matrix: WATER	Date Reported : 14-DEC-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	1214 01:16 SE	
Methylene chloride	ND	ug/l	12.			
1,1-Dichloroethane	ND	ug/l	1.9			
Chloroform	ND	ug/l	1.9			
Carbon tetrachloride	ND	ug/l	1.2			
1,2-Dichloropropane	ND	ug/l	4.4			
Dibromochloromethane	ND	ug/l	1.2			
1,1,2-Trichloroethane	ND	ug/l	1.9			
Tetrachloroethene	ND	ug/l	1.2			
Chlorobenzene	ND	ug/l	1.2			
1,2-Dichloroethane	ND	ug/l	1.2			
1,1,1-Trichloroethane	3.6	ug/l	1.2			
Bromodichloromethane	ND	ug/l	1.2			
trans-1,3-Dichloropropene	ND	ug/l	1.2			
cis-1,3-Dichloropropene	ND	ug/l	1.2			
Bromoform	ND	ug/l	5.0			
1,1,2,2-Tetrachloroethane	ND	ug/l	1.2			
Benzene	ND	ug/l	1.2			
Chloromethane	ND	ug/l	6.2			
Vinyl chloride	ND	ug/l	2.5			
Chloroethane	ND	ug/l	2.5			
1,1-Dichloroethene	ND	ug/l	1.2			
trans-1,2-Dichloroethene	ND	ug/l	1.9			
Trichloroethene	24.	ug/l	1.2			
1,2-Dichlorobenzene	ND	ug/l	6.2			
1,3-Dichlorobenzene	ND	ug/l	6.2			
1,4-Dichlorobenzene	ND	ug/l	6.2			
Methyl tert butyl ether	180	ug/l	2.5			
cis-1,2-Dichloroethene	ND	ug/l	1.2			
Dichlorodifluoromethane	ND	ug/l	12.			
1,2-Dibromoethane	ND	ug/l	5.0			
1,3-Dichloropropane	ND	ug/l	6.2			
1,1,1,2-Tetrachloroethane	ND	ug/l	1.2			
o-Chlorotoluene	ND	ug/l	6.2			
p-Chlorotoluene	ND	ug/l	6.2			
Hexachlorobutadiene	ND	ug/l	2.5			
1,2,4-Trichlorobenzene	ND	ug/l	6.2			

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

ALPHA ANALYTICAL LABORATORIES
 CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0413789-07
 FD-08

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B continued				60 8260B	1214 01:16		SE
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	109.	%		70-130			
Toluene-d8	102.	%		70-130			
4-Bromofluorobenzene	102.	%		70-130			
Dibromofluoromethane	101.	%		70-130			

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

**ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS**

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

Laboratory Sample Number:	L0413789-08	Date Collected:	08-DEC-2004 16:50
	MW-205D	Date Received :	09-DEC-2004
Sample Matrix:	WATER	Date Reported :	14-DEC-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	1212 01:03 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	8.6	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	2.6	ug/l	0.50			
Dichlorodifluoromethane	ND	ug/l	5.0			
1,2-Dibromoethane	ND	ug/l	2.0			
1,3-Dichloropropane	ND	ug/l	2.5			
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50			
o-Chlorotoluene	ND	ug/l	2.5			
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: L0413789-08
MW-205D

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B continued				60 8260B	1212 01:03		BT
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	110.	%		70-130			
Toluene-d8	102.	%		70-130			
4-Bromofluorobenzene	98.0	%		70-130			
Dibromofluoromethane	103.	%		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: L0413789

Parameter	LCS %	LCSD %	RPD	RPD Limit	QC Limits
Volatile Organics by MCP 8260B for sample(s) 04 (WG188545-7, WG188545)					
Methylene chloride	109	101	8	25	70-130
1,1-Dichloroethane	110	106	4	25	70-130
Chloroform	97	91	6	25	70-130
Carbon tetrachloride	109	100	9	25	70-130
1,2-Dichloropropane	105	105	0	25	70-130
Dibromochloromethane	102	100	2	25	70-130
1,1,2-Trichloroethane	107	106	1	25	70-130
Tetrachloroethene	99	93	6	25	70-130
Chlorobenzene	104	99	5	25	70-130
Trichlorofluoromethane	121	115	5	25	70-130
1,2-Dichloroethane	114	111	3	25	70-130
1,1,1-Trichloroethane	102	96	6	25	70-130
Bromodichloromethane	109	102	7	25	70-130
trans-1,3-Dichloropropene	100	95	5	25	70-130
cis-1,3-Dichloropropene	100	99	1	25	70-130
1,1-Dichloropropene	104	101	3	25	70-130
Bromoform	100	100	0	50	70-130
1,1,2,2-Tetrachloroethane	97	98	1	25	70-130
Benzene	110	104	6	25	70-130
Toluene	106	100	6	25	70-130
Ethylbenzene	110	104	6	25	70-130
Chloromethane	132	124	6	50	70-130
Bromomethane	110	110	0	50	70-130
Vinyl chloride	120	117	3	25	70-130
Chloroethane	113	107	5	25	70-130
1,1-Dichloroethene	106	104	2	25	70-130
trans-1,2-Dichloroethene	104	102	2	25	70-130
Trichloroethene	103	100	3	25	70-130
1,2-Dichlorobenzene	96	96	0	25	70-130
1,3-Dichlorobenzene	99	97	2	25	70-130
1,4-Dichlorobenzene	95	96	1	25	70-130
Methyl tert butyl ether	96	87	10	25	70-130
p/m-Xylene	111	107	4	25	70-130
o-Xylene	108	102	6	25	70-130
cis-1,2-Dichloroethene	109	104	5	25	70-130
Dibromomethane	108	102	6	25	70-130
1,2,3-Trichloropropane	101	101	0	25	70-130
Styrene	109	104	5	25	70-130
Dichlorodifluoromethane	125	118	6	50	70-130
Acetone	43	44	2	50	70-130
Carbon disulfide	101	96	5	25	70-130
2-Butanone	55	53	4	50	70-130
4-Methyl-2-pentanone	84	84	0	50	70-130
2-Hexanone	46	46	0	50	70-130
Bromochloromethane	100	97	3	25	70-130
Tetrahydrofuran	95	95	0	25	70-130
2,2-Dichloropropane	64	42	42	25	70-130
1,2-Dibromoethane	98	98	0	25	70-130

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH LCS/LCSD ANALYSIS

Laboratory Job Number: L0413789

Continued

Parameter	LCS %	LCSD %	RPD	RPD Limit	QC Limits
Volatile Organics by MCP 8260B for sample(s) 04 (WG188545-7, WG188545)					
1,3-Dichloropropane	108	105	3	25	70-130
1,1,1,2-Tetrachloroethane	107	104	3	25	70-130
Bromobenzene	97	96	1	25	70-130
n-Butylbenzene	102	102	0	25	70-130
sec-Butylbenzene	106	104	2	25	70-130
tert-Butylbenzene	94	90	4	25	70-130
o-Chlorotoluene	103	101	2	25	70-130
p-Chlorotoluene	102	99	3	25	70-130
1,2-Dibromo-3-chloropropane	90	95	5	50	70-130
Hexachlorobutadiene	108	104	4	25	70-130
Isopropylbenzene	97	95	2	25	70-130
p-Isopropyltoluene	92	90	2	25	70-130
Naphthalene	89	97	9	25	70-130
n-Propylbenzene	104	101	3	25	70-130
1,2,3-Trichlorobenzene	93	100	7	25	70-130
1,2,4-Trichlorobenzene	86	95	10	25	70-130
1,3,5-Trimethylbenzene	106	103	3	25	70-130
1,2,4-Trimethylbenzene	107	103	4	25	70-130
Ethyl ether	97	97	0	25	70-130
Isopropyl Ether	97	97	0	25	70-130
Ethyl-Tert-Butyl-Ether	97	97	0	25	70-130
Tertiary-Amyl Methyl Ether	101	100	1	25	70-130
1,4-Dioxane	71	100	34	50	70-130
Surrogate(s)					
1,2-Dichloroethane-d4	115	110	4		70-130
Toluene-d8	106	101	5		70-130
4-Bromofluorobenzene	102	103	1		70-130
Dibromofluoromethane	112	106	6		70-130
Volatile Organics by MCP 8260B for sample(s) 01-03,05,08 (WG189174-1, WG189174)					
Methylene chloride	87	94	8	25	70-130
1,1-Dichloroethane	90	100	11	25	70-130
Chloroform	83	94	12	25	70-130
Carbon tetrachloride	91	100	9	25	70-130
1,2-Dichloropropane	88	99	12	25	70-130
Dibromochloromethane	89	100	12	25	70-130
1,1,2-Trichloroethane	88	96	9	25	70-130
Tetrachloroethene	85	100	16	25	70-130
Chlorobenzene	90	98	9	25	70-130
1,2-Dichloroethane	91	102	11	25	70-130
1,1,1-Trichloroethane	86	100	15	25	70-130
Bromodichloromethane	88	102	15	25	70-130
trans-1,3-Dichloropropene	82	90	9	25	70-130
cis-1,3-Dichloropropene	88	100	13	25	70-130
Bromoform	82	97	17	50	70-130
1,1,2,2-Tetrachloroethane	84	98	15	25	70-130

ALPHA ANALYTICAL LABORATORIES
 QUALITY ASSURANCE BATCH LCS/LCSD ANALYSIS

Laboratory Job Number: L0413789

Continued

Parameter	LCS %	LCSD %	RPD	RPD Limit	QC Limits
Volatile Organics by MCP 8260B for sample(s) 01-03,05,08 (WG189174-1, WG189174)					
Benzene	89	98	10	25	70-130
Chloromethane	101	116	14	50	70-130
Vinyl chloride	90	100	11	25	70-130
Chloroethane	89	106	17	25	70-130
1,1-Dichloroethene	85	98	14	25	70-130
trans-1,2-Dichloroethene	89	97	9	25	70-130
Trichloroethene	86	97	12	25	70-130
1,2-Dichlorobenzene	84	94	11	25	70-130
1,3-Dichlorobenzene	85	94	10	25	70-130
1,4-Dichlorobenzene	85	97	13	25	70-130
Methyl tert butyl ether	95	102	7	25	70-130
cis-1,2-Dichloroethene	92	99	7	25	70-130
Dichlorodifluoromethane	103	115	11	50	70-130
1,2-Dibromoethane	88	98	11	25	70-130
1,3-Dichloropropane	90	100	11	25	70-130
1,1,1,2-Tetrachloroethane	90	99	10	25	70-130
o-Chlorotoluene	86	97	12	25	70-130
p-Chlorotoluene	84	94	11	25	70-130
Hexachlorobutadiene	78	92	16	25	70-130
1,2,4-Trichlorobenzene	88	95	8	25	70-130
Surrogate(s)					
1,2-Dichloroethane-d4	106	105	1		70-130
Toluene-d8	101	101	0		70-130
4-Bromofluorobenzene	99	100	1		70-130
Dibromofluoromethane	102	103	1		70-130
Volatile Organics by MCP 8260B for sample(s) 06-07 (WG189281-1, WG189281)					
Methylene chloride	104	100	4	25	70-130
1,1-Dichloroethane	109	103	6	25	70-130
Chloroform	104	98	6	25	70-130
Carbon tetrachloride	110	102	8	25	70-130
1,2-Dichloropropane	108	103	5	25	70-130
Dibromochloromethane	108	105	3	25	70-130
1,1,2-Trichloroethane	104	103	1	25	70-130
Tetrachloroethene	104	103	1	25	70-130
Chlorobenzene	106	104	2	25	70-130
Trichlorofluoromethane	111	104	7	25	70-130
1,2-Dichloroethane	108	107	1	25	70-130
1,1,1-Trichloroethane	107	103	4	25	70-130
Bromodichloromethane	105	100	5	25	70-130
trans-1,3-Dichloropropene	108	106	2	25	70-130
cis-1,3-Dichloropropene	106	102	4	25	70-130
1,1-Dichloropropene	112	105	6	25	70-130
Bromoform	99	101	2	50	70-130
1,1,2,2-Tetrachloroethane	102	99	3	25	70-130
Benzene	107	99	8	25	70-130

ALPHA ANALYTICAL LABORATORIES
 QUALITY ASSURANCE BATCH LCS/LCSD ANALYSIS

Laboratory Job Number: L0413789

Continued

Parameter	LCS %	LCSD %	RPD	RPD Limit	QC Limits
Volatile Organics by MCP 8260B for sample(s) 06-07 (WG189281-1, WG189281)					
Toluene	105	100	5	25	70-130
Ethylbenzene	106	102	4	25	70-130
Chloromethane	100	89	12	50	70-130
Bromomethane	108	100	8	50	70-130
Vinyl chloride	99	88	12	25	70-130
Chloroethane	102	85	18	25	70-130
1,1-Dichloroethene	103	96	7	25	70-130
trans-1,2-Dichloroethene	110	102	8	25	70-130
Trichloroethene	107	99	8	25	70-130
1,2-Dichlorobenzene	104	98	6	25	70-130
1,3-Dichlorobenzene	105	100	5	25	70-130
1,4-Dichlorobenzene	105	100	5	25	70-130
Methyl tert butyl ether	103	106	3	25	70-130
p/m-Xylene	111	104	7	25	70-130
o-Xylene	107	102	5	25	70-130
cis-1,2-Dichloroethene	102	97	5	25	70-130
Dibromomethane	109	103	6	25	70-130
1,2,3-Trichloropropane	106	104	2	25	70-130
Styrene	111	106	5	25	70-130
Dichlorodifluoromethane	81	73	10	50	70-130
Acetone	113	107	5	50	70-130
Carbon disulfide	107	96	11	25	70-130
2-Butanone	110	104	6	50	70-130
4-Methyl-2-pentanone	102	98	4	50	70-130
2-Hexanone	114	112	2	50	70-130
Bromochloromethane	105	99	6	25	70-130
Tetrahydrofuran	110	108	2	25	70-130
2,2-Dichloropropane	106	101	5	25	70-130
1,2-Dibromoethane	106	104	2	25	70-130
1,3-Dichloropropane	106	105	1	25	70-130
1,1,1,2-Tetrachloroethane	109	106	3	25	70-130
Bromobenzene	104	98	6	25	70-130
n-Butylbenzene	107	100	7	25	70-130
sec-Butylbenzene	105	98	7	25	70-130
tert-Butylbenzene	105	99	6	25	70-130
o-Chlorotoluene	105	98	7	25	70-130
p-Chlorotoluene	104	100	4	25	70-130
1,2-Dibromo-3-chloropropane	110	108	2	50	70-130
Hexachlorobutadiene	99	94	5	25	70-130
Isopropylbenzene	109	105	4	25	70-130
p-Isopropyltoluene	107	100	7	25	70-130
Naphthalene	106	103	3	25	70-130
n-Propylbenzene	107	99	8	25	70-130
1,2,3-Trichlorobenzene	106	103	3	25	70-130
1,2,4-Trichlorobenzene	106	100	6	25	70-130
1,3,5-Trimethylbenzene	107	102	5	25	70-130
1,2,4-Trimethylbenzene	106	99	7	25	70-130

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH LCS/LCSD ANALYSIS

Laboratory Job Number: L0413789

Continued

Parameter	LCS %	LCSD %	RPD	RPD Limit	QC Limits
Volatile Organics by MCP 8260B for sample(s) 06-07 (WG189281-1, WG189281)					
Ethyl ether	116	104	11	25	70-130
Isopropyl Ether	106	102	4	25	70-130
Ethyl-Tert-Butyl-Ether	105	100	5	25	70-130
Tertiary-Amyl Methyl Ether	102	101	1	25	70-130
1,4-Dioxane	110	111	1	50	70-130
Surrogate(s)					
1,2-Dichloroethane-d4	105	107	2		70-130
Toluene-d8	101	103	2		70-130
4-Bromofluorobenzene	99	101	2		70-130
Dibromofluoromethane	104	104	0		70-130

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0413789

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 04 (WG188545-9)							
Volatile Organics by MCP 8260B				60 8260B		1213 12:14	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				
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				

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0413789

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 04 (WG188545-9)							
Volatile Organics by MCP 8260B continued				60 8260B	1213 12:14		TT
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	116.	%					70-130
Toluene-d8	98.0	%					70-130
4-Bromofluorobenzene	103.	%					70-130
Dibromofluoromethane	117.	%					70-130
Blank Analysis for sample(s) 01-03,05,08 (WG189174-3)							
Volatile Organics by MCP 8260B				60 8260B	1211 16:40		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				

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0413789

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 01-03,05,08 (WG189174-3)							
Volatile Organics by MCP 8260B continued				60 8260B		1211 16:40	BT
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	107.	%	70-130				
Toluene-d8	102.	%	70-130				
4-Bromofluorobenzene	103.	%	70-130				
Dibromofluoromethane	103.	%	70-130				
Blank Analysis for sample(s) 06-07 (WG189281-3)							
Volatile Organics by MCP 8260B				60 8260B		1213 17:28	SE
Methylene chloride	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	0.75				
Chloroform	ND	ug/l	0.75				
Carbon tetrachloride	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	1.8				
Dibromochloromethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.75				
Tetrachloroethene	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	2.5				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
Bromodichloromethane	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
1,1-Dichloropropene	ND	ug/l	2.5				

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0413789

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 06-07 (WG189281-3)							
Volatile Organics by MCP 8260B continued				60 8260B		1213 17:28	SE
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				
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				

ALPHA ANALYTICAL LABORATORIES
 QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0413789

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 06-07 (WG189281-3)							
Volatile Organics by MCP 8260B continued				60 8260B		1213 17:28	SE
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	106.	%		70-130			
Toluene-d8	104.	%		70-130			
4-Bromofluorobenzene	101.	%		70-130			
Dibromofluoromethane	103.	%		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.

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: L0413789

Were project specific reporting limits specified? NO

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp	Pres	Seal	Analysis
L0413789-01A	Vial HCl preserved	B	N/A	2.0 C	Y	Absent	MCP-8260-04
L0413789-01B	Vial HCl preserved	B	N/A	2.0 C	Y	Absent	MCP-8260-04
L0413789-02A	Vial HCl preserved	B	N/A	2.0 C	Y	Absent	MCP-8260-04
L0413789-02B	Vial HCl preserved	B	N/A	2.0 C	Y	Absent	MCP-8260-04
L0413789-03A	Vial HCl preserved	B	N/A	2.0 C	Y	Absent	MCP-8260-04
L0413789-03B	Vial HCl preserved	B	N/A	2.0 C	Y	Absent	MCP-8260-04
L0413789-04A	Vial HCl preserved	B	N/A	2.0 C	Y	Absent	MCP-8260-04
L0413789-04B	Vial HCl preserved	B	N/A	2.0 C	Y	Absent	MCP-8260-04
L0413789-05A	Vial HCl preserved	B	N/A	2.0 C	Y	Absent	MCP-8260-04
L0413789-05B	Vial HCl preserved	B	N/A	2.0 C	Y	Absent	MCP-8260-04
L0413789-06A	Vial HCl preserved	B	N/A	2.0 C	Y	Absent	MCP-8260-04
L0413789-06B	Vial HCl preserved	B	N/A	2.0 C	Y	Absent	MCP-8260-04
L0413789-07A	Vial HCl preserved	B	N/A	2.0 C	Y	Absent	MCP-8260-04
L0413789-07B	Vial HCl preserved	B	N/A	2.0 C	Y	Absent	MCP-8260-04
L0413789-08A	Vial HCl preserved	B	N/A	2.0 C	Y	Absent	MCP-8260-04
L0413789-08B	Vial HCl preserved	B	N/A	2.0 C	Y	Absent	MCP-8260-04

Container Comments

Container ID Comments
