

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: L0414462
Address: 399 Boylston Street 6th Floor Boston, MA 02116	Date Received: 10-DEC-2004
Attn: Jeremy Picard	Date Reported: 29-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

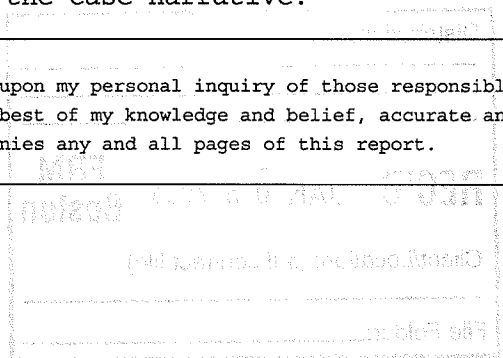
A response to questions E and F is required for "Presumptive Certainty" status

- E. Were all QC performance standards and recommendations for the specified method(s) achieved? YES
- F. Were results for all analyte-list compounds/elements for the specified method(s) reported? NO

Any answers of NO to the above questions are addressed in the case narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized by: James Todaro
This document electronically signed



ALPHA ANALYTICAL LABORATORIES

Laboratory Job Number: L0414462
Date Reported: 29-DEC-2004

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0414462-01	MW-47S	WAYLAND, MA
L0414462-02	MW-47D	WAYLAND, MA
L0414462-03	MW-47M	WAYLAND, MA

ALPHA ANALYTICAL LABORATORIES
NARRATIVE REPORT

Laboratory Job Number: L0414462

MCP Related Narratives

Report Submission

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

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: L0414462-01	Date Collected: 09-DEC-2004 14:50
Sample Matrix: MW-47S	Date Received : 10-DEC-2004
Sample Matrix: WATER	Date Reported : 29-DEC-2004
Condition of Sample: Satisfactory	Field Prep: None
Number & Type of Containers:	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B				60 8260B	1214 01:30		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	1.7	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1,1-Trichloroethane	0.66	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	1.6	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	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: L0414462-01
 MW-47S

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B continued				60 8260B	1214 01:30		RY
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	106.	%		70-130			
Toluene-d8	104.	%		70-130			
4-Bromofluorobenzene	109.	%		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: L0414462-02
MW-47D

Date Collected: 09-DEC-2004 14:45

Date Received : 10-DEC-2004

Sample Matrix: WATER

Date Reported : 29-DEC-2004

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers:

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B				60 8260B	1214 02:06 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	1.3	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	0.54	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.75				
Trichloroethene	16.	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	2.5	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: L0414462-02
 MW-47D

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B continued				60 8260B	1214 02:06		RY
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	107.	%		70-130			
Toluene-d8	102.	%		70-130			
4-Bromofluorobenzene	108.	%		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: L0414462-03

Date Collected: 09-DEC-2004 16:05

MW-47M

Date Received : 10-DEC-2004

Sample Matrix:

WATER

Date Reported : 29-DEC-2004

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers:

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B				60 8260B	1214 23.44		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	0.57	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	1.00	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	7.6	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: L0414462-03
MW-47M

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B continued				60 8260B	1214 23:44		RY
Surrogate (s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	107.	%		70-130			
Toluene-d8	102.	%		70-130			
4-Bromofluorobenzene	109.	%		70-130			
Dibromofluoromethane	98.0	%		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: L0414462

Parameter	LCS %	LCSD %	RPD	RPD Limit	QC Limits
Volatile Organics by MCP 8260B for sample(s) 01-02 (WG189312-1, WG189312)					
Methylene chloride	90	89	1	25	70-130
1,1-Dichloroethane	85	90	6	25	70-130
Chloroform	91	91	0	25	70-130
Carbon tetrachloride	97	97	0	25	70-130
1,2-Dichloropropane	95	94	1	25	70-130
Dibromochloromethane	96	91	5	25	70-130
1,1,2-Trichloroethane	94	90	4	25	70-130
Tetrachloroethene	99	94	5	25	70-130
Chlorobenzene	97	93	4	25	70-130
Trichlorofluoromethane	96	95	1	25	70-130
1,2-Dichloroethane	93	90	3	25	70-130
1,1,1-Trichloroethane	95	97	2	25	70-130
Bromodichloromethane	90	90	0	25	70-130
trans-1,3-Dichloropropene	93	91	2	25	70-130
cis-1,3-Dichloropropene	93	92	1	25	70-130
1,1-Dichloropropene	97	98	1	25	70-130
Bromoform	93	89	4	50	70-130
1,1,2,2-Tetrachloroethane	100	93	7	25	70-130
Benzene	94	96	2	25	70-130
Toluene	97	94	3	25	70-130
Ethylbenzene	97	94	3	25	70-130
Chloromethane	87	87	0	50	70-130
Bromomethane	92	96	4	50	70-130
Vinyl chloride	95	94	1	25	70-130
Chloroethane	91	93	2	25	70-130
1,1-Dichloroethene	98	98	0	25	70-130
trans-1,2-Dichloroethene	98	96	2	25	70-130
Trichloroethene	94	92	2	25	70-130
1,2-Dichlorobenzene	96	92	4	25	70-130
1,3-Dichlorobenzene	96	93	3	25	70-130
1,4-Dichlorobenzene	96	92	4	25	70-130
Methyl tert butyl ether	97	97	0	25	70-130
p/m-Xylene	96	92	4	25	70-130
o-Xylene	96	92	4	25	70-130
cis-1,2-Dichloroethene	98	95	3	25	70-130
Dibromomethane	90	90	0	25	70-130
1,2,3-Trichloropropane	94	90	4	25	70-130
Styrene	98	94	4	25	70-130
Dichlorodifluoromethane	94	96	2	50	70-130
Acetone	88	81	8	50	70-130
Carbon disulfide	95	95	0	25	70-130
2-Butanone	88	83	6	50	70-130
4-Methyl-2-pentanone	97	90	7	50	70-130
2-Hexanone	99	91	8	50	70-130
Bromochloromethane	101	96	5	25	70-130
Tetrahydrofuran	99	93	6	25	70-130
2,2-Dichloropropane	105	105	0	25	70-130
1,2-Dibromoethane	94	91	3	25	70-130

ALPHA ANALYTICAL LABORATORIES
 QUALITY ASSURANCE BATCH LCS/LCSD ANALYSIS

Laboratory Job Number: L0414462

Continued

Parameter	LCS %	LCSD %	RPD	RPD Limit	QC Limits
Volatile Organics by MCP 8260B for sample(s) 01-02 (WG189312-1, WG189312)					
1,3-Dichloropropane	95	90	5	25	70-130
1,1,1,2-Tetrachloroethane	95	92	3	25	70-130
Bromobenzene	95	92	3	25	70-130
n-Butylbenzene	99	96	3	25	70-130
sec-Butylbenzene	101	96	5	25	70-130
tert-Butylbenzene	101	97	4	25	70-130
o-Chlorotoluene	95	93	2	25	70-130
p-Chlorotoluene	96	93	3	25	70-130
1,2-Dibromo-3-chloropropane	94	89	5	50	70-130
Hexachlorobutadiene	100	94	6	25	70-130
Isopropylbenzene	98	95	3	25	70-130
p-Isopropyltoluene	103	98	5	25	70-130
Naphthalene	95	95	0	25	70-130
n-Propylbenzene	99	95	4	25	70-130
1,2,3-Trichlorobenzene	96	95	1	25	70-130
1,2,4-Trichlorobenzene	96	92	4	25	70-130
1,3,5-Trimethylbenzene	99	95	4	25	70-130
1,2,4-Trimethylbenzene	97	92	5	25	70-130
Ethyl ether	92	91	1	25	70-130
Isopropyl Ether	94	91	3	25	70-130
Ethyl-Tert-Butyl-Ether	95	94	1	25	70-130
Tertiary-Amyl Methyl Ether	97	95	2	25	70-130
1,4-Dioxane	92	91	1	50	70-130
Surrogate (s)					
1,2-Dichloroethane-d4	95	93	2		70-130
Toluene-d8	99	100	1		70-130
4-Bromofluorobenzene	99	99	0		70-130
Dibromofluoromethane	99	98	1		70-130
Volatile Organics by MCP 8260B for sample(s) 03 (WG189312-4, WG189312)					
Methylene chloride	94	93	1	25	70-130
1,1-Dichloroethane	89	98	10	25	70-130
Chloroform	94	92	2	25	70-130
Carbon tetrachloride	98	97	1	25	70-130
1,2-Dichloropropane	94	94	0	25	70-130
Dibromochloromethane	87	86	1	25	70-130
1,1,2-Trichloroethane	93	94	1	25	70-130
Tetrachloroethene	95	92	3	25	70-130
Chlorobenzene	94	91	3	25	70-130
Trichlorofluoromethane	106	99	7	25	70-130
1,2-Dichloroethane	98	97	1	25	70-130
1,1,1-Trichloroethane	103	101	2	25	70-130
Bromodichloromethane	92	90	2	25	70-130
trans-1,3-Dichloropropene	94	96	2	25	70-130
cis-1,3-Dichloropropene	91	91	0	25	70-130
1,1-Dichloropropene	100	98	2	25	70-130

ALPHA ANALYTICAL LABORATORIES
 QUALITY ASSURANCE BATCH LCS/LCSD ANALYSIS

Laboratory Job Number: L0414462

Continued

Parameter	LCS %	LCSD %	RPD	RPD Limit	QC Limits
Volatile Organics by MCP 8260B for sample(s) 03 (WG189312-4, WG189312)					
Bromoform	82	82	0	50	70-130
1,1,2,2-Tetrachloroethane	98	94	4	25	70-130
Benzene	98	96	2	25	70-130
Toluene	100	97	3	25	70-130
Ethylbenzene	100	97	3	25	70-130
Chloromethane	101	100	1	50	70-130
Bromomethane	82	88	7	50	70-130
Vinyl chloride	106	107	1	25	70-130
Chloroethane	105	100	5	25	70-130
1,1-Dichloroethene	100	97	3	25	70-130
trans-1,2-Dichloroethene	99	97	2	25	70-130
Trichloroethene	92	92	0	25	70-130
1,2-Dichlorobenzene	92	87	6	25	70-130
1,3-Dichlorobenzene	92	88	4	25	70-130
1,4-Dichlorobenzene	90	87	3	25	70-130
Methyl tert butyl ether	98	100	2	25	70-130
p/m-Xylene	97	95	2	25	70-130
o-Xylene	96	94	2	25	70-130
cis-1,2-Dichloroethene	98	97	1	25	70-130
Dibromomethane	97	95	2	25	70-130
1,2,3-Trichloropropane	94	94	0	25	70-130
Styrene	95	93	2	25	70-130
Dichlorodifluoromethane	108	103	5	50	70-130
Acetone	99	89	11	50	70-130
Carbon disulfide	100	97	3	25	70-130
2-Butanone	93	87	7	50	70-130
4-Methyl-2-pentanone	87	82	6	50	70-130
2-Hexanone	100	94	6	50	70-130
Bromochloromethane	98	94	4	25	70-130
Tetrahydrofuran	104	100	4	25	70-130
2,2-Dichloropropane	99	112	12	25	70-130
1,2-Dibromoethane	92	91	1	25	70-130
1,3-Dichloropropane	94	95	1	25	70-130
1,1,1,2-Tetrachloroethane	90	89	1	25	70-130
Bromobenzene	91	87	4	25	70-130
n-Butylbenzene	104	98	6	25	70-130
sec-Butylbenzene	102	98	4	25	70-130
tert-Butylbenzene	101	96	5	25	70-130
o-Chlorotoluene	100	96	4	25	70-130
p-Chlorotoluene	99	96	3	25	70-130
1,2-Dibromo-3-chloropropane	90	90	0	50	70-130
Hexachlorobutadiene	98	86	13	25	70-130
Isopropylbenzene	98	95	3	25	70-130
p-Isopropyltoluene	99	93	6	25	70-130
Naphthalene	80	80	0	25	70-130
n-Propylbenzene	102	99	3	25	70-130
1,2,3-Trichlorobenzene	79	79	0	25	70-130

ALPHA ANALYTICAL LABORATORIES
 QUALITY ASSURANCE BATCH LCS/LCSD ANALYSIS

Laboratory Job Number: L0414462

Continued

Parameter	LCS %	LCSD %	RPD	RPD Limit	QC Limits
Volatile Organics by MCP 8260B for sample(s) 03 (WG189312-4, WG189312)					
1,2,4-Trichlorobenzene	82	79	4	25	70-130
1,3,5-Trimethylbenzene	101	96	5	25	70-130
1,2,4-Trimethylbenzene	99	94	5	25	70-130
Ethyl ether	91	92	1	25	70-130
Isopropyl Ether	88	89	1	25	70-130
Ethyl-Tert-Butyl-Ether	86	86	0	25	70-130
Tertiary-Amyl Methyl Ether	84	85	1	25	70-130
1,4-Dioxane	108	107	1	50	70-130
Surrogate(s)					
1,2-Dichloroethane-d4	105	102	3		70-130
Toluene-d8	103	103	0		70-130
4-Bromofluorobenzene	106	103	3		70-130
Dibromofluoromethane	99	101	2		70-130

ALPHA ANALYTICAL LABORATORIES
 QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0414462

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 01-02 (WG189312-3)							
Volatile Organics by MCP 8260B				60 8260B	1213 16:32 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				
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: L0414462

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
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Blank Analysis for sample(s) 01-02 (WG189312-3)						
Volatile Organics by MCP 8260B continued				60 8260B	1213 16:32 RY	

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	95.0	%	70-130
Toluene-d8	97.0	%	70-130
4-Bromofluorobenzene	100.	%	70-130
Dibromofluoromethane	97.0	%	70-130

Blank Analysis for sample(s) 03 (WG189312-6)						
Volatile Organics by MCP 8260B				60 8260B	1214 17:51 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			
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			

ALPHA ANALYTICAL LABORATORIES
 QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0414462

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 03 (WG189312-6)							
Volatile Organics by MCP 8260B continued							
				60 8260B		1214	17:51 RY
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				
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				

ALPHA ANALYTICAL LABORATORIES
 QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0414462

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 03 (WG189312-6)							
Volatile Organics by MCP 8260B continued				60.8260B		1214	17:51 RY
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	102.	%		70-130			
Toluene-d8	103.	%		70-130			
4-Bromofluorobenzene	107.	%		70-130			
Dibromofluoromethane	95.0	%		70-130			

ALPHA ANALYTICAL LABORATORIES
ADDENDUM I

REFERENCES

60. Quality Assurance and Quality Control Requirements and Performance Standards for SW-846 Methods. MADEP BWSC. WSC-CAM-IIA (Revision 4), WSC-CAM-V C (Revision 2), WSC-CAM-IIIA (Revision 5). May 2004.

GLOSSARY OF TERMS AND SYMBOLS

REF Reference number in which test method may be found.
METHOD Method number by which analysis was performed.
ID Initials of the analyst.
ND Not detected in comparison to the reported detection limit.

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: L0414462

Were project specific reporting limits specified? YES

Cooler Information

Cooler Custody Seal

Container Information

Container ID	Container Type	Cooler pH	Temp	Pres Seal	Analysis
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Container Comments

Container ID	Comments
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