

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: L0504025  
Address: 399 Boylston Street  
6th Floor  
Boston, MA 02116 Date Received: 14-APR-2005  
Attn: Jeremy Picard Date Reported: 21-APR-2005  
Project Number: 28047 Delivery Method: Alpha  
Site: RAYTHEON WAYLAND

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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.

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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.

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Authorized by: James Todaro  
This document electronically signed

ALPHA ANALYTICAL LABORATORIES

Laboratory Job Number: L0504025  
Date Reported: 21-APR-2005

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ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0504025-01	MW-269D-20050413-01	WAYLAND, MA
L0504025-02	MW-269S-20050413-01	WAYLAND, MA
L0504025-03	MW-269MA-20050413-01	WAYLAND, MA
L0504025-04	MW-268B-20050413-01	WAYLAND, MA
L0504025-05	DUP-004-20050413-01	WAYLAND, MA
L0504025-06	MW-268D-20050413-01	WAYLAND, MA

ALPHA ANALYTICAL LABORATORIES  
NARRATIVE REPORT

Laboratory Job Number: L0504025

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MCP Related Narratives

Report Submission

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

Volatile Organics

In reference to question E, the WG199562-1 and -2 LCS/LCSD % recoveries for Bromomethane, a difficult analyte, are below the acceptance criteria for the method.

**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

<b>Laboratory Sample Number:</b> L0504025-01	<b>Date Collected:</b> 13-APR-2005 08:50
MW-269D-20050413-01	<b>Date Received :</b> 14-APR-2005
<b>Sample Matrix:</b> WATER	<b>Date Reported :</b> 21-APR-2005
<b>Condition of Sample:</b> Satisfactory	<b>Field Prep:</b> Field Filtered
<b>Number &amp; Type of Containers:</b> 1-Plastic,2-Vial	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
Dissolved Metals by MCP 6000/7000 series				60 6010B		
Arsenic, Dissolved	ND	mg/l	0.005	60 6010B	0419 13:35 0420 17:14	MG
Volatile Organics by MCP 8260B				60 8260B	0419 13:12	TT
Methylene chloride	ND	ug/l	5.0			
1,1-Dichloroethane	ND	ug/l	0.75			
Chloroform	ND	ug/l	0.75			
Carbon tetrachloride	ND	ug/l	0.50			
1,2-Dichloropropane	ND	ug/l	1.8			
Dibromochloromethane	ND	ug/l	0.50			
1,1,2-Trichloroethane	ND	ug/l	0.75			
Tetrachloroethene	ND	ug/l	0.50			
Chlorobenzene	ND	ug/l	0.50			
1,2-Dichloroethane	ND	ug/l	0.50			
1,1,1-Trichloroethane	ND	ug/l	0.50			
Bromodichloromethane	ND	ug/l	0.50			
trans-1,3-Dichloropropene	ND	ug/l	0.50			
cis-1,3-Dichloropropene	ND	ug/l	0.50			
Bromoform	ND	ug/l	2.0			
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50			
Chloromethane	ND	ug/l	2.5			
Vinyl chloride	ND	ug/l	1.0			
Chloroethane	ND	ug/l	1.0			
1,1-Dichloroethene	ND	ug/l	0.50			
trans-1,2-Dichloroethene	ND	ug/l	0.75			
Trichloroethene	0.78	ug/l	0.50			
1,2-Dichlorobenzene	ND	ug/l	2.5			
1,3-Dichlorobenzene	ND	ug/l	2.5			
1,4-Dichlorobenzene	ND	ug/l	2.5			
cis-1,2-Dichloroethene	2.1	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: L0504025-01  
MW-269D-20050413-01

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B continued				60 8260B	0419 13:12		TT
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	95.0	%		70-130			
Toluene-d8	91.0	%		70-130			
4-Bromofluorobenzene	88.0	%		70-130			
Dibromofluoromethane	89.0	%		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: L0504025-02 Date Collected: 13-APR-2005 10:10  
MW-269S-20050413-01 Date Received : 14-APR-2005  
Sample Matrix: WATER Date Reported : 21-APR-2005  
Condition of Sample: Satisfactory Field Prep: Field Filtered  
Number & Type of Containers: 1-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
Dissolved Metals by MCP 6000/7000 series				60 6010B		
Arsenic, Dissolved	ND	mg/l	0.005	60 6010B	0419 13:35 0420 17:18	MG
Volatile Organics by MCP 8260B				60 8260B	0419 13:52	TT
Methylene chloride	ND	ug/l	5.0			
1,1-Dichloroethane	ND	ug/l	0.75			
Chloroform	ND	ug/l	0.75			
Carbon tetrachloride	ND	ug/l	0.50			
1,2-Dichloropropane	ND	ug/l	1.8			
Dibromochloromethane	ND	ug/l	0.50			
1,1,2-Trichloroethane	ND	ug/l	0.75			
Tetrachloroethene	ND	ug/l	0.50			
Chlorobenzene	ND	ug/l	0.50			
1,2-Dichloroethane	ND	ug/l	0.50			
1,1,1-Trichloroethane	ND	ug/l	0.50			
Bromodichloromethane	ND	ug/l	0.50			
trans-1,3-Dichloropropene	ND	ug/l	0.50			
cis-1,3-Dichloropropene	ND	ug/l	0.50			
Bromoform	ND	ug/l	2.0			
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50			
Chloromethane	ND	ug/l	2.5			
Vinyl chloride	ND	ug/l	1.0			
Chloroethane	ND	ug/l	1.0			
1,1-Dichloroethene	ND	ug/l	0.50			
trans-1,2-Dichloroethene	ND	ug/l	0.75			
Trichloroethene	2.9	ug/l	0.50			
1,2-Dichlorobenzene	ND	ug/l	2.5			
1,3-Dichlorobenzene	ND	ug/l	2.5			
1,4-Dichlorobenzene	ND	ug/l	2.5			
cis-1,2-Dichloroethene	0.80	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: L0504025-02  
MW-269S-20050413-01

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B continued				60 8260B	0419 13:52		TT
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	111.	%		70-130			
Toluene-d8	103.	%		70-130			
4-Bromofluorobenzene	100.	%		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

<b>Laboratory Sample Number:</b> L0504025-03	<b>Date Collected:</b> 13-APR-2005 11:20
MW-269MA-20050413-01	<b>Date Received :</b> 14-APR-2005
<b>Sample Matrix:</b> WATER	<b>Date Reported :</b> 21-APR-2005
<b>Condition of Sample:</b> Satisfactory	<b>Field Prep:</b> Field Filtered
<b>Number &amp; Type of Containers:</b> 1-Plastic,2-Vial	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP     ANAL	ID
Dissolved Metals by MCP 6000/7000 series				60 6010B		
Arsenic, Dissolved	ND	mg/l	0.005	60 6010B	0419 13:35 0420 17:22	MG
Volatile Organics by MCP 8260B				60 8260B	0419 16:43	TT
Methylene chloride	ND	ug/l	5.0			
1,1-Dichloroethane	1.3	ug/l	0.75			
Chloroform	ND	ug/l	0.75			
Carbon tetrachloride	ND	ug/l	0.50			
1,2-Dichloropropane	ND	ug/l	1.8			
Dibromochloromethane	ND	ug/l	0.50			
1,1,2-Trichloroethane	ND	ug/l	0.75			
Tetrachloroethene	ND	ug/l	0.50			
Chlorobenzene	ND	ug/l	0.50			
1,2-Dichloroethane	ND	ug/l	0.50			
1,1,1-Trichloroethane	ND	ug/l	0.50			
Bromodichloromethane	ND	ug/l	0.50			
trans-1,3-Dichloropropene	ND	ug/l	0.50			
cis-1,3-Dichloropropene	ND	ug/l	0.50			
Bromoform	ND	ug/l	2.0			
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50			
Chloromethane	ND	ug/l	2.5			
Vinyl chloride	ND	ug/l	1.0			
Chloroethane	ND	ug/l	1.0			
1,1-Dichloroethene	ND	ug/l	0.50			
trans-1,2-Dichloroethene	ND	ug/l	0.75			
Trichloroethene	0.70	ug/l	0.50			
1,2-Dichlorobenzene	ND	ug/l	2.5			
1,3-Dichlorobenzene	ND	ug/l	2.5			
1,4-Dichlorobenzene	ND	ug/l	2.5			
cis-1,2-Dichloroethene	1.9	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: L0504025-03  
MW-269MA-20050413-01

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B continued				60 8260B	0419 16:43		TT
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	107.	%		70-130			
Toluene-d8	102.	%		70-130			
4-Bromofluorobenzene	101.	%		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

<b>Laboratory Sample Number:</b> L0504025-04	<b>Date Collected:</b> 13-APR-2005 14:10
MW-268B-20050413-01	<b>Date Received :</b> 14-APR-2005
<b>Sample Matrix:</b> WATER	<b>Date Reported :</b> 21-APR-2005
<b>Condition of Sample:</b> Satisfactory	<b>Field Prep:</b> Field Filtered
<b>Number &amp; Type of Containers:</b> 3-Plastic,6-Vial	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
Dissolved Metals by MCP 6000/7000 series				60 6010B		
Arsenic, Dissolved	0.006	mg/l	0.005	60 6010B	0419 13:35 0420 17:30	MG
Volatile Organics by MCP 8260B				60 8260B	0419 11:32	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			
1,2-Dichloroethane	ND	ug/l	0.50			
1,1,1-Trichloroethane	ND	ug/l	0.50			
Bromodichloromethane	ND	ug/l	0.50			
trans-1,3-Dichloropropene	ND	ug/l	0.50			
cis-1,3-Dichloropropene	ND	ug/l	0.50			
Bromoform	ND	ug/l	2.0			
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50			
Chloromethane	ND	ug/l	2.5			
Vinyl chloride	ND	ug/l	1.0			
Chloroethane	ND	ug/l	1.0			
1,1-Dichloroethene	ND	ug/l	0.50			
trans-1,2-Dichloroethene	ND	ug/l	0.75			
Trichloroethene	ND	ug/l	0.50			
1,2-Dichlorobenzene	ND	ug/l	2.5			
1,3-Dichlorobenzene	ND	ug/l	2.5			
1,4-Dichlorobenzene	ND	ug/l	2.5			
cis-1,2-Dichloroethene	ND	ug/l	0.50			
Dichlorodifluoromethane	ND	ug/l	5.0			
1,2-Dibromoethane	ND	ug/l	2.0			
1,3-Dichloropropane	ND	ug/l	2.5			
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50			
o-Chlorotoluene	ND	ug/l	2.5			
p-Chlorotoluene	ND	ug/l	2.5			
Hexachlorobutadiene	ND	ug/l	1.0			
1,2,4-Trichlorobenzene	ND	ug/l	2.5			

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

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0504025-04  
MW-268B-20050413-01

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B continued				60 8260B	0419 11:32		RY
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	104.	%		70-130			
Toluene-d8	96.0	%		70-130			
4-Bromofluorobenzene	100.	%		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

<b>Laboratory Sample Number:</b> L0504025-05	<b>Date Collected:</b> 13-APR-2005 00:00
	<b>Date Received :</b> 14-APR-2005
<b>Sample Matrix:</b> DUP-004-20050413-01 WATER	<b>Date Reported :</b> 21-APR-2005
<b>Condition of Sample:</b> Satisfactory	<b>Field Prep:</b> Field Filtered
<b>Number &amp; Type of Containers:</b> 1-Plastic,2-Vial	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
Dissolved Metals by MCP 6000/7000 series				60 6010B		
Arsenic, Dissolved	ND	mg/l	0.005	60 6010B	0419 13:35 0421 11:49	MG
Volatile Organics by MCP 8260B				60 8260B	0419 17:23	TT
Methylene chloride	ND	ug/l	5.0			
1,1-Dichloroethane	ND	ug/l	0.75			
Chloroform	ND	ug/l	0.75			
Carbon tetrachloride	ND	ug/l	0.50			
1,2-Dichloropropane	ND	ug/l	1.8			
Dibromochloromethane	ND	ug/l	0.50			
1,1,2-Trichloroethane	ND	ug/l	0.75			
Tetrachloroethene	ND	ug/l	0.50			
Chlorobenzene	ND	ug/l	0.50			
1,2-Dichloroethane	ND	ug/l	0.50			
1,1,1-Trichloroethane	ND	ug/l	0.50			
Bromodichloromethane	ND	ug/l	0.50			
trans-1,3-Dichloropropene	ND	ug/l	0.50			
cis-1,3-Dichloropropene	ND	ug/l	0.50			
Bromoform	ND	ug/l	2.0			
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50			
Chloromethane	ND	ug/l	2.5			
Vinyl chloride	ND	ug/l	1.0			
Chloroethane	ND	ug/l	1.0			
1,1-Dichloroethene	ND	ug/l	0.50			
trans-1,2-Dichloroethene	ND	ug/l	0.75			
Trichloroethene	ND	ug/l	0.50			
1,2-Dichlorobenzene	ND	ug/l	2.5			
1,3-Dichlorobenzene	ND	ug/l	2.5			
1,4-Dichlorobenzene	ND	ug/l	2.5			
cis-1,2-Dichloroethene	ND	ug/l	0.50			
Dichlorodifluoromethane	ND	ug/l	5.0			
1,2-Dibromoethane	ND	ug/l	2.0			
1,3-Dichloropropane	ND	ug/l	2.5			
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50			
o-Chlorotoluene	ND	ug/l	2.5			
p-Chlorotoluene	ND	ug/l	2.5			
Hexachlorobutadiene	ND	ug/l	1.0			
1,2,4-Trichlorobenzene	ND	ug/l	2.5			

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

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0504025-05  
DUP-004-20050413-01

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B continued				60 8260B	0419 17:23		TT
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	104.	%		70-130			
Toluene-d8	97.0	%		70-130			
4-Bromofluorobenzene	95.0	%		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

<b>Laboratory Sample Number:</b> L0504025-06	<b>Date Collected:</b> 13-APR-2005 16:30
	<b>Date Received :</b> 14-APR-2005
<b>Sample Matrix:</b> MW-268D-20050413-01 WATER	<b>Date Reported :</b> 21-APR-2005
<b>Condition of Sample:</b> Satisfactory	<b>Field Prep:</b> Field Filtered
<b>Number &amp; Type of Containers:</b> 1-Plastic,2-Vial	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
Dissolved Metals by MCP 6000/7000 series				60 6010B		
Arsenic, Dissolved	ND	mg/l	0.005	60 6010B	0419 13:35 0420 17:46	MG
Volatile Organics by MCP 8260B				60 8260B	0419 18:03	TT
Methylene chloride	ND	ug/l	5.0			
1,1-Dichloroethane	ND	ug/l	0.75			
Chloroform	ND	ug/l	0.75			
Carbon tetrachloride	ND	ug/l	0.50			
1,2-Dichloropropane	ND	ug/l	1.8			
Dibromochloromethane	ND	ug/l	0.50			
1,1,2-Trichloroethane	ND	ug/l	0.75			
Tetrachloroethene	ND	ug/l	0.50			
Chlorobenzene	ND	ug/l	0.50			
1,2-Dichloroethane	ND	ug/l	0.50			
1,1,1-Trichloroethane	ND	ug/l	0.50			
Bromodichloromethane	ND	ug/l	0.50			
trans-1,3-Dichloropropene	ND	ug/l	0.50			
cis-1,3-Dichloropropene	ND	ug/l	0.50			
Bromoform	ND	ug/l	2.0			
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50			
Chloromethane	ND	ug/l	2.5			
Vinyl chloride	ND	ug/l	1.0			
Chloroethane	ND	ug/l	1.0			
1,1-Dichloroethene	ND	ug/l	0.50			
trans-1,2-Dichloroethene	ND	ug/l	0.75			
Trichloroethene	5.8	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			
cis-1,2-Dichloroethene	8.4	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: L0504025-06  
MW-268D-20050413-01

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B continued				60 8260B	0419 18:03		TT
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	104.	%		70-130			
Toluene-d8	97.0	%		70-130			
4-Bromofluorobenzene	94.0	%		70-130			
Dibromofluoromethane	100.	%		70-130			

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

**ALPHA ANALYTICAL LABORATORIES**  
**QUALITY ASSURANCE BATCH LCS/LCSD ANALYSIS**

Laboratory Job Number: L0504025

Parameter	LCS %	LCSD %	RPD	RPD Limit	QC Limits
Dissolved Metals by MCP 6000/7000 series for sample(s) 01-06 (WG199629-4, WG199629-5)					
Arsenic, Dissolved	95	102	7	20	75-125
Volatile Organics by MCP 8260B for sample(s) 01-02 (WG199562-1, WG199562-2)					
Methylene chloride	104	97	7	25	70-130
1,1-Dichloroethane	105	99	6	25	70-130
Chloroform	100	93	7	25	70-130
Carbon tetrachloride	96	94	2	25	70-130
1,2-Dichloropropane	102	96	6	25	70-130
Dibromochloromethane	90	88	2	25	70-130
1,1,2-Trichloroethane	105	102	3	25	70-130
Tetrachloroethene	103	93	10	25	70-130
Chlorobenzene	99	93	6	25	70-130
Trichlorofluoromethane	102	96	6	25	70-130
1,2-Dichloroethane	110	108	2	25	70-130
1,1,1-Trichloroethane	103	96	7	25	70-130
Bromodichloromethane	95	93	2	25	70-130
trans-1,3-Dichloropropene	97	94	3	25	70-130
cis-1,3-Dichloropropene	96	93	3	25	70-130
1,1-Dichloropropene	103	96	7	25	70-130
Bromoform	82	82	0	50	70-130
1,1,2,2-Tetrachloroethane	98	95	3	25	70-130
Benzene	105	99	6	25	70-130
Toluene	102	95	7	25	70-130
Ethylbenzene	104	97	7	25	70-130
Chloromethane	95	89	7	50	70-130
Bromomethane	50	61	20	50	70-130
Vinyl chloride	109	100	9	25	70-130
Chloroethane	111	101	9	25	70-130
1,1-Dichloroethene	98	92	6	25	70-130
trans-1,2-Dichloroethene	102	97	5	25	70-130
Trichloroethene	104	99	5	25	70-130
1,2-Dichlorobenzene	98	94	4	25	70-130
1,3-Dichlorobenzene	98	95	3	25	70-130
1,4-Dichlorobenzene	98	93	5	25	70-130
Methyl tert butyl ether	100	98	2	25	70-130
p/m-Xylene	104	97	7	25	70-130
o-Xylene	105	98	7	25	70-130
cis-1,2-Dichloroethene	105	98	7	25	70-130
Dibromomethane	103	101	2	25	70-130
1,2,3-Trichloropropane	95	94	1	25	70-130
Styrene	106	99	7	25	70-130
Dichlorodifluoromethane	75	70	7	50	70-130
Acetone	100	88	13	50	70-130
Carbon disulfide	99	91	8	25	70-130
2-Butanone	89	81	9	50	70-130
4-Methyl-2-pentanone	78	76	3	50	70-130
2-Hexanone	86	72	18	50	70-130
Bromochloromethane	104	100	4	25	70-130



**ALPHA ANALYTICAL LABORATORIES**  
**QUALITY ASSURANCE BATCH LCS/LCSD ANALYSIS**

Laboratory Job Number: L0504025

Continued

Parameter	LCS %	LCSD %	RPD	RPD Limit	QC Limits
Volatile Organics by MCP 8260B for sample(s) 01-02 (WG199562-1, WG199562-2)					
Tetrahydrofuran	93	94	1	25	70-130
2,2-Dichloropropane	95	87	9	25	70-130
1,2-Dibromoethane	102	98	4	25	70-130
1,3-Dichloropropane	103	98	5	25	70-130
1,1,1,2-Tetrachloroethane	96	93	3	25	70-130
Bromobenzene	99	95	4	25	70-130
n-Butylbenzene	99	92	7	25	70-130
sec-Butylbenzene	100	93	7	25	70-130
tert-Butylbenzene	97	92	5	25	70-130
o-Chlorotoluene	97	91	6	25	70-130
p-Chlorotoluene	99	94	5	25	70-130
1,2-Dibromo-3-chloropropane	88	79	11	50	70-130
Hexachlorobutadiene	93	85	9	25	70-130
Isopropylbenzene	100	94	6	25	70-130
p-Isopropyltoluene	96	91	5	25	70-130
Naphthalene	88	86	2	25	70-130
n-Propylbenzene	100	93	7	25	70-130
1,2,3-Trichlorobenzene	89	89	0	25	70-130
1,2,4-Trichlorobenzene	88	86	2	25	70-130
1,3,5-Trimethylbenzene	99	93	6	25	70-130
1,2,4-Trimethylbenzene	100	94	6	25	70-130
Ethyl ether	104	99	5	25	70-130
Isopropyl Ether	102	98	4	25	70-130
Ethyl-Tert-Butyl-Ether	102	100	2	25	70-130
Tertiary-Amyl Methyl Ether	102	100	2	25	70-130
1,4-Dioxane	105	112	6	50	70-130
Surrogate(s)					
1,2-Dichloroethane-d4	115	108	6		70-130
Toluene-d8	106	99	7		70-130
4-Bromofluorobenzene	103	98	5		70-130
Dibromofluoromethane	107	101	6		70-130
Volatile Organics by MCP 8260B for sample(s) 03,05-06 (WG199684-1, WG199684-2)					
Methylene chloride	107	105	2	25	70-130
1,1-Dichloroethane	112	108	4	25	70-130
Chloroform	104	102	2	25	70-130
Carbon tetrachloride	103	99	4	25	70-130
1,2-Dichloropropane	106	103	3	25	70-130
Dibromochloromethane	94	94	0	25	70-130
1,1,2-Trichloroethane	110	109	1	25	70-130
Tetrachloroethene	106	103	3	25	70-130
Chlorobenzene	104	100	4	25	70-130
1,2-Dichloroethane	115	117	2	25	70-130
1,1,1-Trichloroethane	107	105	2	25	70-130
Bromodichloromethane	98	98	0	25	70-130
trans-1,3-Dichloropropene	101	100	1	25	70-130

ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH LCS/LCSD ANALYSIS

Laboratory Job Number: L0504025

Continued

Parameter	LCS %	LCSD %	RPD	RPD Limit	QC Limits
Volatile Organics by MCP 8260B for sample(s) 03,05-06 (WG199684-1, WG199684-2)					
cis-1,3-Dichloropropene	100	99	1	25	70-130
Bromoform	84	84	0	50	70-130
1,1,2,2-Tetrachloroethane	100	101	1	25	70-130
Benzene	109	107	2	25	70-130
Chloromethane	99	95	4	50	70-130
Vinyl chloride	112	105	6	25	70-130
Chloroethane	116	111	4	25	70-130
1,1-Dichloroethene	104	101	3	25	70-130
trans-1,2-Dichloroethene	108	105	3	25	70-130
Trichloroethene	109	106	3	25	70-130
1,2-Dichlorobenzene	101	100	1	25	70-130
1,3-Dichlorobenzene	103	100	3	25	70-130
1,4-Dichlorobenzene	101	99	2	25	70-130
Methyl tert butyl ether	95	97	2	25	70-130
cis-1,2-Dichloroethene	111	107	4	25	70-130
Dichlorodifluoromethane	78	73	7	50	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	102	100	2	25	70-130
o-Chlorotoluene	88	91	3	25	70-130
p-Chlorotoluene	102	98	4	25	70-130
Hexachlorobutadiene	89	90	1	25	70-130
1,2,4-Trichlorobenzene	88	91	3	25	70-130
Surrogate(s)					
1,2-Dichloroethane-d4	109	103	6		70-130
Toluene-d8	99	93	6		70-130
4-Bromofluorobenzene	96	91	5		70-130
Dibromofluoromethane	101	98	3		70-130
Volatile Organics by MCP 8260B for sample(s) 04 (WG199592-3, WG199592-4)					
Methylene chloride	100	97	3	25	70-130
1,1-Dichloroethane	89	113	24	25	70-130
Chloroform	109	103	6	25	70-130
Carbon tetrachloride	118	116	2	25	70-130
1,2-Dichloropropane	102	102	0	25	70-130
Dibromochloromethane	103	96	7	25	70-130
1,1,2-Trichloroethane	100	91	9	25	70-130
Tetrachloroethene	115	106	8	25	70-130
Chlorobenzene	108	100	8	25	70-130
1,2-Dichloroethane	109	103	6	25	70-130
1,1,1-Trichloroethane	114	115	1	25	70-130
Bromodichloromethane	98	97	1	25	70-130
trans-1,3-Dichloropropene	96	90	6	25	70-130
cis-1,3-Dichloropropene	97	94	3	25	70-130
Bromoform	97	102	5	50	70-130
1,1,2,2-Tetrachloroethane	102	100	2	25	70-130

ALPHA ANALYTICAL LABORATORIES  
 QUALITY ASSURANCE BATCH LCS/LCSD ANALYSIS

Laboratory Job Number: L0504025

Continued

Parameter	LCS %	LCSD %	RPD	RPD Limit	QC Limits
Volatile Organics by MCP 8260B for sample(s) 04 (WG199592-3, WG199592-4)					
Benzene	108	104	4	25	70-130
Chloromethane	98	92	6	50	70-130
Vinyl chloride	112	102	9	25	70-130
Chloroethane	100	94	6	25	70-130
1,1-Dichloroethene	103	100	3	25	70-130
trans-1,2-Dichloroethene	106	100	6	25	70-130
Trichloroethene	103	101	2	25	70-130
1,2-Dichlorobenzene	109	99	10	25	70-130
1,3-Dichlorobenzene	110	102	8	25	70-130
1,4-Dichlorobenzene	107	100	7	25	70-130
Methyl tert butyl ether	86	109	24	25	70-130
cis-1,2-Dichloroethene	102	99	3	25	70-130
Dichlorodifluoromethane	84	82	2	50	70-130
1,2-Dibromoethane	102	94	8	25	70-130
1,3-Dichloropropane	97	92	5	25	70-130
1,1,1,2-Tetrachloroethane	108	102	6	25	70-130
o-Chlorotoluene	104	98	6	25	70-130
p-Chlorotoluene	105	93	12	25	70-130
Hexachlorobutadiene	108	102	6	25	70-130
1,2,4-Trichlorobenzene	115	105	9	25	70-130
Surrogate(s)					
1,2-Dichloroethane-d4	106	101	5		70-130
Toluene-d8	103	95	8		70-130
4-Bromofluorobenzene	96	97	1		70-130
Dibromofluoromethane	104	100	4		70-130

**ALPHA ANALYTICAL LABORATORIES**  
**QUALITY ASSURANCE BATCH MS/MSD ANALYSIS**

Laboratory Job Number: L0504025

Parameter	MS %	MSD %	RPD	RPD Limit	MS/MSD Limits
Dissolved Metals by MCP 6000/7000 series for sample(s) 01-06 (L0504025-04, WG199629-2)					
Arsenic, Dissolved	101	100	1	20	75-125
Volatile Organics by MCP 8260B for sample(s) 04 (L0504025-04, WG199592-2)					
Methylene chloride	105	96	9	30	70-130
1,1-Dichloroethane	94	91	3	30	70-130
Chloroform	111	103	7	30	70-130
Carbon tetrachloride	118	107	10	30	70-130
1,2-Dichloropropane	105	97	8	30	70-130
Dibromochloromethane	103	93	10	30	70-130
1,1,2-Trichloroethane	104	92	12	30	70-130
Tetrachloroethene	110	95	15	30	70-130
Chlorobenzene	104	94	10	30	70-130
1,2-Dichloroethane	115	105	9	30	70-130
1,1,1-Trichloroethane	115	105	9	30	70-130
Bromodichloromethane	105	97	8	30	70-130
trans-1,3-Dichloropropene	102	89	14	30	70-130
cis-1,3-Dichloropropene	100	95	5	30	70-130
Bromoform	107	97	10	30	70-130
1,1,2,2-Tetrachloroethane	102	97	5	30	70-130
Benzene	108	97	11	30	70-130
Chloromethane	83	77	8	30	70-130
Vinyl chloride	104	92	12	30	70-130
Chloroethane	98	86	13	30	70-130
1,1-Dichloroethene	113	104	8	30	70-130
trans-1,2-Dichloroethene	112	101	10	30	70-130
Trichloroethene	111	98	12	30	70-130
1,2-Dichlorobenzene	103	96	7	30	70-130
1,3-Dichlorobenzene	102	97	5	30	70-130
1,4-Dichlorobenzene	103	94	9	30	70-130
Methyl tert butyl ether	88	90	2	30	70-130
cis-1,2-Dichloroethene	108	100	8	30	70-130
Dichlorodifluoromethane	88	81	8	30	70-130
1,2-Dibromoethane	104	94	10	30	70-130
1,3-Dichloropropane	102	92	10	30	70-130
1,1,1,2-Tetrachloroethane	108	95	13	30	70-130
o-Chlorotoluene	103	94	9	30	70-130
p-Chlorotoluene	99	92	7	30	70-130
Hexachlorobutadiene	99	92	7	30	70-130
1,2,4-Trichlorobenzene	104	102	2	30	70-130
Surrogate(s)					
1,2-Dichloroethane-d4	113	108	5		70-130
Toluene-d8	100	96	4		70-130
4-Bromofluorobenzene	101	101	0		70-130
Dibromofluoromethane	112	106	6		70-130

**ALPHA ANALYTICAL LABORATORIES**  
**QUALITY ASSURANCE BATCH BLANK ANALYSIS**

Laboratory Job Number: L0504025

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP      ANAL	ID
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Blank Analysis for sample(s) 01-06 (WG199629-3)						
Dissolved Metals by MCP 6000/7000 series				60 6010B		

Arsenic, Dissolved	ND	mg/l	0.005	60 6010B	0419 13:35 0420 16:45	MG
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Blank Analysis for sample(s) 01-02 (WG199562-3)						
Volatile Organics by MCP 8260B				60 8260B		0419 07:50 TT

Methylene chloride	ND	ug/l	5.0			
1,1-Dichloroethane	ND	ug/l	0.75			
Chloroform	ND	ug/l	0.75			
Carbon tetrachloride	ND	ug/l	0.50			
1,2-Dichloropropane	ND	ug/l	1.8			
Dibromochloromethane	ND	ug/l	0.50			
1,1,2-Trichloroethane	ND	ug/l	0.75			
Tetrachloroethene	ND	ug/l	0.50			
Chlorobenzene	ND	ug/l	0.50			
Trichlorofluoromethane	ND	ug/l	2.5			
1,2-Dichloroethane	ND	ug/l	0.50			
1,1,1-Trichloroethane	ND	ug/l	0.50			
Bromodichloromethane	ND	ug/l	0.50			
trans-1,3-Dichloropropene	ND	ug/l	0.50			
cis-1,3-Dichloropropene	ND	ug/l	0.50			
1,1-Dichloropropene	ND	ug/l	2.5			
Bromoform	ND	ug/l	2.0			
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50			
Benzene	ND	ug/l	0.50			
Toluene	ND	ug/l	0.75			
Ethylbenzene	ND	ug/l	0.50			
Chloromethane	ND	ug/l	2.5			
Bromomethane	ND	ug/l	1.0			
Vinyl chloride	ND	ug/l	1.0			
Chloroethane	ND	ug/l	1.0			
1,1-Dichloroethene	ND	ug/l	0.50			
trans-1,2-Dichloroethene	ND	ug/l	0.75			
Trichloroethene	ND	ug/l	0.50			
1,2-Dichlorobenzene	ND	ug/l	2.5			
1,3-Dichlorobenzene	ND	ug/l	2.5			
1,4-Dichlorobenzene	ND	ug/l	2.5			
Methyl tert butyl ether	ND	ug/l	1.0			
p/m-Xylene	ND	ug/l	0.50			
o-Xylene	ND	ug/l	0.50			
cis-1,2-Dichloroethene	ND	ug/l	0.50			
Dibromomethane	ND	ug/l	5.0			
1,2,3-Trichloropropane	ND	ug/l	5.0			
Styrene	ND	ug/l	0.50			
Dichlorodifluoromethane	ND	ug/l	5.0			
Acetone	ND	ug/l	5.0			
Carbon disulfide	ND	ug/l	5.0			

**ALPHA ANALYTICAL LABORATORIES**  
**QUALITY ASSURANCE BATCH BLANK ANALYSIS**

Laboratory Job Number: L0504025

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 01-02 (WG199562-3)							
Volatile Organics by MCP 8260B continued				60 8260B		0419 07:50	TT
2-Butanone	ND	ug/l	5.0				
4-Methyl-2-pentanone	ND	ug/l	5.0				
2-Hexanone	ND	ug/l	5.0				
Bromochloromethane	ND	ug/l	2.5				
Tetrahydrofuran	ND	ug/l	10.				
2,2-Dichloropropane	ND	ug/l	2.5				
1,2-Dibromoethane	ND	ug/l	2.0				
1,3-Dichloropropane	ND	ug/l	2.5				
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50				
Bromobenzene	ND	ug/l	2.5				
n-Butylbenzene	ND	ug/l	0.50				
sec-Butylbenzene	ND	ug/l	0.50				
tert-Butylbenzene	ND	ug/l	2.5				
o-Chlorotoluene	ND	ug/l	2.5				
p-Chlorotoluene	ND	ug/l	2.5				
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5				
Hexachlorobutadiene	ND	ug/l	1.0				
Isopropylbenzene	ND	ug/l	0.50				
p-Isopropyltoluene	ND	ug/l	0.50				
Naphthalene	ND	ug/l	2.5				
n-Propylbenzene	ND	ug/l	0.50				
1,2,3-Trichlorobenzene	ND	ug/l	2.5				
1,2,4-Trichlorobenzene	ND	ug/l	2.5				
1,3,5-Trimethylbenzene	ND	ug/l	2.5				
1,2,4-Trimethylbenzene	ND	ug/l	2.5				
Ethyl ether	ND	ug/l	2.5				
Isopropyl Ether	ND	ug/l	2.0				
Ethyl-Tert-Butyl-Ether	ND	ug/l	2.0				
Tertiary-Amyl Methyl Ether	ND	ug/l	2.0				
1,4-Dioxane	ND	ug/l	250				
Surrogate(s) Recovery QC Criteria							
1,2-Dichloroethane-d4	113.	%	70-130				
Toluene-d8	107.	%	70-130				
4-Bromofluorobenzene	106.	%	70-130				
Dibromofluoromethane	108.	%	70-130				
Blank Analysis for sample(s) 04 (WG199592-5)							
Volatile Organics by MCP 8260B				60 8260B		0419 10:55	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				

ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0504025

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 04 (WG199592-5)							
Volatile Organics by MCP 8260B continued				60 8260B		0419 10:55	RY
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	101.	%	70-130				
Toluene-d8	97.0	%	70-130				
4-Bromofluorobenzene	107.	%	70-130				
Dibromofluoromethane	99.0	%	70-130				
Blank Analysis for sample(s) 03,05-06 (WG199684-3)							
Volatile Organics by MCP 8260B				60 8260B		0419 16:02	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				

ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0504025

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 03,05-06 (WG199684-3)							
Volatile Organics by MCP 8260B continued				60 8260B	0419 16:02 TT		
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	108.	%		70-130			
Toluene-d8	100.	%		70-130			
4-Bromofluorobenzene	98.0	%		70-130			
Dibromofluoromethane	101.	%		70-130			



**ALPHA ANALYTICAL LABORATORIES  
ADDENDUM I**

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**REFERENCES**

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

**GLOSSARY OF TERMS AND SYMBOLS**

REF Reference number in which test method may be found.  
METHOD Method number by which analysis was performed.  
ID Initials of the analyst.  
ND Not detected in comparison to the reported detection limit.  
NI Not Ignitable.  
ug/cart Micrograms per Cartridge.

**LIMITATION OF LIABILITIES**

Alpha Analytical, Inc. performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical, Inc., shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical, Inc. be held liable for any incidental consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical, Inc.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding times and splitting of samples in the field.

**ALPHA ANALYTICAL LABORATORIES  
LOGIN SPECIFIC INFORMATION**

Laboratory Job Number: L0504025

Were project specific reporting limits specified? YES

**Cooler Information**

Cooler	Custody Seal
A	Absent
B	Absent

**Container Information**

Container ID	Container Type	Cooler	pH	Temp	Pres	Seal	Analysis
L0504025-01A	Vial HCl preserved	B	N/A	0.3 C	Y	Absent	MCP-8260-04
L0504025-01B	Vial HCl preserved	B	N/A	0.3 C	Y	Absent	MCP-8260-04
L0504025-01C	Plastic 250ml HNO3 preserved	B	<2	0.3 C	Y	Absent	MCP-AS-6010S
L0504025-02A	Vial HCl preserved	B	N/A	0.3 C	Y	Absent	MCP-8260-04
L0504025-02B	Vial HCl preserved	B	N/A	0.3 C	Y	Absent	MCP-8260-04
L0504025-02C	Plastic 250ml HNO3 preserved	B	<2	0.3 C	Y	Absent	MCP-AS-6010S
L0504025-03A	Vial HCl preserved	B	N/A	0.3 C	Y	Absent	MCP-8260-04
L0504025-03B	Vial HCl preserved	B	N/A	0.3 C	Y	Absent	MCP-8260-04
L0504025-03C	Plastic 250ml HNO3 preserved	B	<2	0.3 C	Y	Absent	MCP-AS-6010S
L0504025-04A	Vial HCl preserved	B	N/A	0.3 C	Y	Absent	MCP-8260-04
L0504025-04B	Vial HCl preserved	B	N/A	0.3 C	Y	Absent	MCP-8260-04
L0504025-04C	Plastic 250ml HNO3 preserved	B	<2	0.3 C	Y	Absent	MCP-AS-6010S
L0504025-04D	Vial HCl preserved	B	N/A	0.3 C	Y	Absent	MCP-8260-04
L0504025-04E	Vial HCl preserved	B	N/A	0.3 C	Y	Absent	MCP-8260-04
L0504025-04F	Vial HCl preserved	B	N/A	0.3 C	Y	Absent	MCP-8260-04
L0504025-04G	Vial HCl preserved	B	N/A	0.3 C	Y	Absent	MCP-8260-04
L0504025-04I	Plastic 250ml HNO3 preserved	B	<2	0.3 C	Y	Absent	MCP-AS-6010S
L0504025-04J	Plastic 250ml HNO3 preserved	B	<2	0.3 C	Y	Absent	MCP-AS-6010S
L0504025-05A	Vial HCl preserved	B	N/A	0.3 C	Y	Absent	MCP-8260-04
L0504025-05B	Vial HCl preserved	B	N/A	0.3 C	Y	Absent	MCP-8260-04
L0504025-05C	Plastic 250ml HNO3 preserved	B	<2	0.3 C	Y	Absent	MCP-AS-6010S
L0504025-06A	Vial HCl preserved	B	N/A	0.3 C	Y	Absent	MCP-8260-04
L0504025-06B	Vial HCl preserved	B	N/A	0.3 C	Y	Absent	MCP-8260-04
L0504025-06C	Plastic 250ml HNO3 preserved	B	<2	0.3 C	Y	Absent	MCP-AS-6010S

**Container Comments**

Container ID    Comments



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

# CHAIN OF CUSTODY

PAGE 1 OF 1

## Client Information

Client: **ERM**

Address: **399 Baylson St**

**Weston, MA**

Phone:

Fax:

Email:

## Project Information

Project Name: **Baylson-Walker**

Project Location: **Weston, MA**

Project #: **28047**

Project Manager: **J. Picard**

ALPHA Quote #:

## Turn-Around Time

Standard

Date Due: **4/21**

These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

Date Rec'd in Lab: **4/14**

## Report Information - Data Deliverables

FAX  EMAIL

ADEX  Add'l Deliverables

## Regulatory Requirements/Report Limits

State/Fed Program

Criteria

ALPHA Job #: **107402**

## Billing Information

Same as Client info

PO #:

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials
		Date	Time		

402-1	NW-265D-20050413-01	4-13-05	0850	GW	BT	Z 1
2	NW-269S-20050413-01	4-13-05	1000	GW	BT	Z 1
3	NW-265MA-20050413-01	4-13-05	1120	GW	BT	Z 1
4	NW-266B-20050413-01	4-13-05	1410	GW	BT	Z 1
4	NW-266B-20050413-01	4-13-05	1410	GW	BT	Z 1
4	NW-266B-20050413-01	4-13-05	1410	GW	BT	Z 1
5	NW-266B-20050413-01	4-13-05	2400	GW	BT	Z 1
6	NW-266B-20050413-01	4-13-05	1030	GW	BT	Z 1

Sample Specific Comments	ANALYSIS	MCP PRESUMPTIVE CERTAINTY - THESE QUESTIONS MUST BE ANSWERED	Regulatory Requirements/Report Limits	Billing Information
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<p><b>*As samples are filtered using OHS method Q105</b></p>	<p><b>ANALYSIS</b>  <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No  <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No  <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>	<p>Are MCP Analytical Methods Required?  <input type="checkbox"/> Yes <input type="checkbox"/> No            Are Drinking Water Samples Submitted?  <input type="checkbox"/> Yes <input type="checkbox"/> No            Have you met minimum field QC requirements?  <input type="checkbox"/> Yes <input type="checkbox"/> No</p>	<p>State/Fed Program: <b>BC</b>            Criteria: <b>BC</b></p>	<p>PO #: <b>107402</b></p>
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## QUESTIONS ABOVE MUST BE ANSWERED FOR PRESUMPTIVE CERTAINTY

Container Type	Preservative	Date/Time	Received By:	Date/Time
----------------	--------------	-----------	--------------	-----------

IS YOUR PROJECT MCP?

**NO**

Relinquished By:

*[Signature]*

Date/Time

**4/14/05 12:25 PM**

Received By:

*[Signature]*

Date/Time

**4/14/05 1:32 PM**

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time dock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms. See reverse side.