

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:** L0307493
Address: 399 Boylston Street
6th Floor
Boston, MA 02116 **Date Received:** 30-JUL-2003
Attn: Mr. Tim Pac **Date Reported:** 05-AUG-2003
Project Number: 1922.09 **Delivery Method:** Client
Site: RAYTHEON

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0307493-01	MW-104	WAYLAND, MA
L0307493-02	MW-105	WAYLAND, MA
L0307493-03	MW-105M	WAYLAND, MA
L0307493-04	MW-106	WAYLAND, MA
L0307493-05	MW-106M	WAYLAND, MA
L0307493-06	MW-209	WAYLAND, MA
L0307493-07	MW-210	WAYLAND, MA
L0307493-08	MW-211	WAYLAND, MA
L0307493-09	MW-118	WAYLAND, MA
L0307493-10	MW-117	WAYLAND, MA
L0307493-11	TB	WAYLAND, MA
L0307493-12	DUP-2	WAYLAND, MA
L0307493-13	MW-43S	WAYLAND, MA
L0307493-14	MW-43D	WAYLAND, MA

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

Scott McLean - Technical Director
This document electronically signed

ALPHA ANALYTICAL LABORATORIES
NARRATIVE REPORT

Laboratory Job Number: L0307493

Volatile Organics

L0307493-07 has an elevated limit of detection due to the dilutions required by the elevated concentrations of target compounds in the sample.

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: L0307493-01 Date Collected: 30-JUL-2003 10:26
MW-104 Date Received : 30-JUL-2003
Sample Matrix: WATER Date Reported : 05-AUG-2003
Condition of Sample: Satisfactory Field Prep: None
Number & Type of Containers: 2-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	ID ANAL
Volatile Organics by GC 8021				1 8021B	0731 19:15 MM	
Bromodichloromethane	0.55	ug/l	0.50			
Bromoform	ND	ug/l	0.50			
Carbon tetrachloride	ND	ug/l	0.50			
Chlorobenzene	ND	ug/l	0.50			
Dibromochloromethane	ND	ug/l	5.0			
Bromomethane/Chloroethane	ND	ug/l	5.0			
Chloroform	0.86	ug/l	0.50			
1,2-Dichlorobenzene	ND	ug/l	0.50			
1,3-Dichlorobenzene	ND	ug/l	0.50			
1,4-Dichlorobenzene	ND	ug/l	0.50			
Dichlorodifluoromethane	ND	ug/l	5.0			
1,1-Dichloroethane	ND	ug/l	0.50			
1,2-Dichloroethane	ND	ug/l	0.50			
1,1-Dichloroethene	ND	ug/l	0.50			
cis-1,2-Dichloroethene	ND	ug/l	0.50			
trans-1,2-Dichloroethene	ND	ug/l	0.50			
1,2-Dichloropropane	ND	ug/l	0.50			
cis-1,3-Dichloropropene	ND	ug/l	0.50			
trans-1,3-Dichloropropene	ND	ug/l	0.50			
Methylene chloride	ND	ug/l	5.0			
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50			
Tetrachloroethene	1.5	ug/l	0.50			
1,1,1-Trichloroethane	ND	ug/l	0.50			
1,1,2-Trichloroethane	ND	ug/l	0.50			
Trichloroethene	19.	ug/l	0.50			
Trichlorofluoromethane	ND	ug/l	0.50			
2-Chloroethylvinyl ether	ND	ug/l	5.0			
Chloromethane	ND	ug/l	5.0			
Vinyl Chloride	ND	ug/l	2.0			
Surrogate(s)	Recovery		QC Criteria			
4-Bromochlorobenzene	82.0	%	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: L0307493-02	Date Collected: 30-JUL-2003 10:50
MW-105	Date Received : 30-JUL-2003
Sample Matrix: WATER	Date Reported : 05-AUG-2003
Condition of Sample: Satisfactory	Field Prep: None
Number & Type of Containers: 2-Vial	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
Volatile Organics by GC 8021				1 8021B	0731 21:53	MM
Bromodichloromethane	ND	ug/l	0.50			
Bromoform	ND	ug/l	0.50			
Carbon tetrachloride	ND	ug/l	0.50			
Chlorobenzene	ND	ug/l	0.50			
Dibromochloromethane	ND	ug/l	5.0			
Bromomethane/Chloroethane	ND	ug/l	5.0			
Chloroform	ND	ug/l	0.50			
1,2-Dichlorobenzene	ND	ug/l	0.50			
1,3-Dichlorobenzene	ND	ug/l	0.50			
1,4-Dichlorobenzene	ND	ug/l	0.50			
Dichlorodifluoromethane	ND	ug/l	5.0			
1,1-Dichloroethane	ND	ug/l	0.50			
1,2-Dichloroethane	ND	ug/l	0.50			
1,1-Dichloroethene	ND	ug/l	0.50			
cis-1,2-Dichloroethene	ND	ug/l	0.50			
trans-1,2-Dichloroethene	ND	ug/l	0.50			
1,2-Dichloropropane	ND	ug/l	0.50			
cis-1,3-Dichloropropene	ND	ug/l	0.50			
trans-1,3-Dichloropropene	ND	ug/l	0.50			
Methylene chloride	ND	ug/l	5.0			
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50			
Tetrachloroethene	0.68	ug/l	0.50			
1,1,1-Trichloroethane	ND	ug/l	0.50			
1,1,2-Trichloroethane	ND	ug/l	0.50			
Trichloroethene	11.	ug/l	0.50			
Trichlorofluoromethane	ND	ug/l	0.50			
2-Chloroethylvinyl ether	ND	ug/l	5.0			
Chloromethane	ND	ug/l	5.0			
Vinyl Chloride	ND	ug/l	2.0			
Surrogate(s)	Recovery		QC Criteria			
4-Bromochlorobenzene	105.	%	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:	L0307493-03	Date Collected:	30-JUL-2003 11:11
	MW-105M	Date Received :	30-JUL-2003
Sample Matrix:	WATER	Date Reported :	05-AUG-2003
Condition of Sample:	Satisfactory	Field Prep:	None
Number & Type of Containers: 2-Vial			

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
Volatile Organics by GC 8021				1 8021B	0731 22:45 MM	
Bromodichloromethane	ND	ug/l	0.50			
Bromoform	ND	ug/l	0.50			
Carbon tetrachloride	ND	ug/l	0.50			
Chlorobenzene	ND	ug/l	0.50			
Dibromochloromethane	ND	ug/l	5.0			
Bromomethane/Chloroethane	ND	ug/l	5.0			
Chloroform	ND	ug/l	0.50			
1,2-Dichlorobenzene	ND	ug/l	0.50			
1,3-Dichlorobenzene	ND	ug/l	0.50			
1,4-Dichlorobenzene	ND	ug/l	0.50			
Dichlorodifluoromethane	ND	ug/l	5.0			
1,1-Dichloroethane	ND	ug/l	0.50			
1,2-Dichloroethane	ND	ug/l	0.50			
1,1-Dichloroethene	ND	ug/l	0.50			
cis-1,2-Dichloroethene	ND	ug/l	0.50			
trans-1,2-Dichloroethene	ND	ug/l	0.50			
1,2-Dichloropropane	ND	ug/l	0.50			
cis-1,3-Dichloropropene	ND	ug/l	0.50			
trans-1,3-Dichloropropene	ND	ug/l	0.50			
Methylene chloride	ND	ug/l	5.0			
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50			
Tetrachloroethene	ND	ug/l	0.50			
1,1,1-Trichloroethane	ND	ug/l	0.50			
1,1,2-Trichloroethane	ND	ug/l	0.50			
Trichloroethene	ND	ug/l	0.50			
Trichlorofluoromethane	ND	ug/l	0.50			
2-Chloroethylvinyl ether	ND	ug/l	5.0			
Chloromethane	ND	ug/l	5.0			
Vinyl Chloride	ND	ug/l	2.0			
Surrogate(s)	Recovery		QC Criteria			
4-Bromochlorobenzene	102.	%	70-130			

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

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

Laboratory Sample Number: L0307493-04 Date Collected: 30-JUL-2003 11:40
 MW-106 Date Received : 30-JUL-2003
 Sample Matrix: WATER Date Reported : 05-AUG-2003
 Condition of Sample: Satisfactory Field Prep: None
 Number & Type of Containers: 2-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
Volatile Organics by GC 8021				1 8021B	0731 23:38 MM	
Bromodichloromethane	ND	ug/l	0.50			
Bromoform	ND	ug/l	0.50			
Carbon tetrachloride	ND	ug/l	0.50			
Chlorobenzene	ND	ug/l	0.50			
Dibromochloromethane	ND	ug/l	5.0			
Bromomethane/Chloroethane	ND	ug/l	5.0			
Chloroform	0.61	ug/l	0.50			
1,2-Dichlorobenzene	ND	ug/l	0.50			
1,3-Dichlorobenzene	ND	ug/l	0.50			
1,4-Dichlorobenzene	ND	ug/l	0.50			
Dichlorodifluoromethane	ND	ug/l	5.0			
1,1-Dichloroethane	ND	ug/l	0.50			
1,2-Dichloroethane	ND	ug/l	0.50			
1,1-Dichloroethene	ND	ug/l	0.50			
cis-1,2-Dichloroethene	ND	ug/l	0.50			
trans-1,2-Dichloroethene	ND	ug/l	0.50			
1,2-Dichloropropane	ND	ug/l	0.50			
cis-1,3-Dichloropropene	ND	ug/l	0.50			
trans-1,3-Dichloropropene	ND	ug/l	0.50			
Methylene chloride	ND	ug/l	5.0			
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50			
Tetrachloroethene	0.98	ug/l	0.50			
1,1,1-Trichloroethane	ND	ug/l	0.50			
1,1,2-Trichloroethane	ND	ug/l	0.50			
Trichloroethene	16.	ug/l	0.50			
Trichlorofluoromethane	ND	ug/l	0.50			
2-Chloroethylvinyl ether	ND	ug/l	5.0			
Chloromethane	ND	ug/l	5.0			
Vinyl Chloride	ND	ug/l	2.0			
Surrogate(s)	Recovery		QC Criteria			
4-Bromochlorobenzene	105.	%	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: L0307493-05	Date Collected: 30-JUL-2003 10:30
MW-106M	Date Received : 30-JUL-2003
Sample Matrix: WATER	Date Reported : 05-AUG-2003
Condition of Sample: Satisfactory	Field Prep: None
Number & Type of Containers: 2-Vial	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
Volatile Organics by GC 8021				1 8021B	0801 00:30 MM	
Bromodichloromethane	ND	ug/l	0.50			
Bromoform	ND	ug/l	0.50			
Carbon tetrachloride	ND	ug/l	0.50			
Chlorobenzene	ND	ug/l	0.50			
Dibromochloromethane	ND	ug/l	5.0			
Bromomethane/Chloroethane	ND	ug/l	5.0			
Chloroform	ND	ug/l	0.50			
1,2-Dichlorobenzene	ND	ug/l	0.50			
1,3-Dichlorobenzene	ND	ug/l	0.50			
1,4-Dichlorobenzene	ND	ug/l	0.50			
Dichlorodifluoromethane	ND	ug/l	5.0			
1,1-Dichloroethane	ND	ug/l	0.50			
1,2-Dichloroethane	ND	ug/l	0.50			
1,1-Dichloroethene	ND	ug/l	0.50			
cis-1,2-Dichloroethene	ND	ug/l	0.50			
trans-1,2-Dichloroethene	ND	ug/l	0.50			
1,2-Dichloropropane	ND	ug/l	0.50			
cis-1,3-Dichloropropene	ND	ug/l	0.50			
trans-1,3-Dichloropropene	ND	ug/l	0.50			
Methylene chloride	ND	ug/l	5.0			
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50			
Tetrachloroethene	0.55	ug/l	0.50			
1,1,1-Trichloroethane	ND	ug/l	0.50			
1,1,2-Trichloroethane	ND	ug/l	0.50			
Trichloroethene	0.98	ug/l	0.50			
Trichlorofluoromethane	0.54	ug/l	0.50			
2-Chloroethylvinyl ether	ND	ug/l	5.0			
Chloromethane	ND	ug/l	5.0			
Vinyl Chloride	ND	ug/l	2.0			
Surrogate(s)	Recovery		QC Criteria			
4-Bromochlorobenzene	103.	%	70-130			

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

**ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS**

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

Laboratory Sample Number: L0307493-06 Date Collected: 30-JUL-2003 13:28
 MW-209 Date Received : 30-JUL-2003
 Sample Matrix: WATER Date Reported : 05-AUG-2003
 Condition of Sample: Satisfactory Field Prep: Field Filtered
 Number & Type of Containers: 2-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Chloride	330	mg/l	10.	1 9251		0731 18:29	DD
Chromium, Hexavalent	ND	mg/l	0.02	1 7196A	0730 19:45	0730 19:45	JT
Dissolved Metals							
Chromium, Dissolved	ND	mg/l	0.01	1 6010B		0731 13:39	RW
Manganese, Dissolved	ND	mg/l	0.01	1 6010B		0731 13:39	RW
Sodium, Dissolved	140	mg/l	40.	1 6010B		0804 13:46	RW
Volatile Organics by GC 8021							
Bromodichloromethane	ND	ug/l	0.50	1 8021B		0801 03:08	MM
Bromoform	ND	ug/l	0.50				
Carbon tetrachloride	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Dibromochloromethane	ND	ug/l	5.0				
Bromomethane/Chloroethane	ND	ug/l	5.0				
Chloroform	ND	ug/l	0.50				
1,2-Dichlorobenzene	ND	ug/l	0.50				
1,3-Dichlorobenzene	ND	ug/l	0.50				
1,4-Dichlorobenzene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	0.50				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1-Dichloroethene	ND	ug/l	0.50				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
Methylene chloride	ND	ug/l	5.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Tetrachloroethene	0.60	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.50				
Trichloroethene	6.4	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	0.50				
2-Chloroethylvinyl ether	ND	ug/l	5.0				
Chloromethane	ND	ug/l	5.0				

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

**ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0307493-06
MW-209

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC 8021 continued				1	8021B	0801	03:08 MM
Vinyl Chloride	ND	ug/l	2.0				
Surrogate(s)	Recovery			QC Criteria			
4-Bromochlorobenzene	85.0	%		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: L0307493-07 Date Collected: 30-JUL-2003 10:48
 MW-210 Date Received : 30-JUL-2003
 Sample Matrix: WATER Date Reported : 05-AUG-2003
 Condition of Sample: Satisfactory Field Prep: None
 Number & Type of Containers: 2-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC 8021				1	8021B	0801 14:20 MM	
Bromodichloromethane	0.64	ug/l	0.50				
Bromoform	ND	ug/l	0.50				
Carbon tetrachloride	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Dibromochloromethane	ND	ug/l	5.0				
Bromomethane/Chloroethane	ND	ug/l	5.0				
Chloroform	0.90	ug/l	0.50				
1,2-Dichlorobenzene	ND	ug/l	0.50				
1,3-Dichlorobenzene	ND	ug/l	0.50				
1,4-Dichlorobenzene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	0.50				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1-Dichloroethene	ND	ug/l	0.50				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
Methylene chloride	ND	ug/l	5.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Tetrachloroethene	ND	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.50				
Trichloroethene	2.2	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	0.50				
2-Chloroethylvinyl ether	ND	ug/l	5.0				
Chloromethane	ND	ug/l	5.0				
Vinyl Chloride	ND	ug/l	2.0				
Surrogate(s)	Recovery		QC Criteria				
4-Bromochlorobenzene	108.	%	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: L0307493-08
 MW-211
Sample Matrix: WATER

Date Collected: 30-JUL-2003 14:50
Date Received : 30-JUL-2003
Date Reported : 05-AUG-2003

Condition of Sample: Satisfactory
Field Prep: Field Filtered

Number & Type of Containers: 2-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Chloride	220	mg/l	10.	1 9251		0731 18:31	DD
Chromium, Hexavalent	ND	mg/l	0.02	1 7196A	0730 19:45	0730 19:45	JT
Dissolved Metals							
Chromium, Dissolved	ND	mg/l	0.01	1 6010B		0731 13:43	RW
Manganese, Dissolved	0.01	mg/l	0.01	1 6010B		0731 13:43	RW
Sodium, Dissolved	140	mg/l	40.	1 6010B		0804 13:49	RW
Volatile Organics by GC 8021							
Bromodichloromethane	ND	ug/l	0.50	1 8021B		0801 15:13	MM
Bromoform	ND	ug/l	0.50				
Carbon tetrachloride	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Dibromochloromethane	ND	ug/l	5.0				
Bromomethane/Chloroethane	ND	ug/l	5.0				
Chloroform	ND	ug/l	0.50				
1,2-Dichlorobenzene	ND	ug/l	0.50				
1,3-Dichlorobenzene	ND	ug/l	0.50				
1,4-Dichlorobenzene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	0.50				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1-Dichloroethene	ND	ug/l	0.50				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
Methylene chloride	ND	ug/l	5.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Tetrachloroethene	ND	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.50				
Trichloroethene	0.68	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	0.50				
2-Chloroethylvinyl ether	ND	ug/l	5.0				
Chloromethane	ND	ug/l	5.0				

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

**ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0307493-08
MW-211

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC 8021 continued				1	8021B	0801 15:13 MM	
Vinyl Chloride	ND	ug/l	2.0				
Surrogate(s)	Recovery			QC Criteria			
4-Bromochlorobenzene	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: L0307493-09	Date Collected: 30-JUL-2003 13:40
MW-118	Date Received : 30-JUL-2003
Sample Matrix: WATER	Date Reported : 05-AUG-2003
Condition of Sample: Satisfactory	Field Prep: Field Filtered
Number & Type of Containers: 2-Plastic,2-Vial	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Chloride	140	mg/l	10.	1 9251		0731 18:35	DD
Chromium, Hexavalent	ND	mg/l	0.02	1 7196A	0730 19:45	0730 19:45	JT
Dissolved Metals							
Chromium, Dissolved	ND	mg/l	0.01	1 6010B		0731 13:47	RW
Manganese, Dissolved	0.01	mg/l	0.01	1 6010B		0731 13:47	RW
Sodium, Dissolved	120	mg/l	20.	1 6010B		0731 15:33	RW
Volatile Organics by GC 8021							
Bromodichloromethane	ND	ug/l	2.0	1 8021B		0801 16:05	MM
Bromoform	ND	ug/l	2.0				
Carbon tetrachloride	ND	ug/l	2.0				
Chlorobenzene	ND	ug/l	2.0				
Dibromochloromethane	ND	ug/l	20.				
Bromomethane/Chloroethane	ND	ug/l	20.				
Chloroform	ND	ug/l	2.0				
1,2-Dichlorobenzene	ND	ug/l	2.0				
1,3-Dichlorobenzene	ND	ug/l	2.0				
1,4-Dichlorobenzene	ND	ug/l	2.0				
Dichlorodifluoromethane	ND	ug/l	20.				
1,1-Dichloroethane	ND	ug/l	2.0				
1,2-Dichloroethane	ND	ug/l	2.0				
1,1-Dichloroethene	ND	ug/l	2.0				
cis-1,2-Dichloroethene	ND	ug/l	2.0				
trans-1,2-Dichloroethene	ND	ug/l	2.0				
1,2-Dichloropropane	ND	ug/l	2.0				
cis-1,3-Dichloropropene	ND	ug/l	2.0				
trans-1,3-Dichloropropene	ND	ug/l	2.0				
Methylene chloride	ND	ug/l	20.				
1,1,2,2-Tetrachloroethane	ND	ug/l	2.0				
Tetrachloroethene	ND	ug/l	2.0				
1,1,1-Trichloroethane	ND	ug/l	2.0				
1,1,2-Trichloroethane	ND	ug/l	2.0				
Trichloroethene	120	ug/l	2.0				
Trichlorofluoromethane	ND	ug/l	2.0				
2-Chloroethylvinyl ether	ND	ug/l	20.				
Chloromethane	ND	ug/l	20.				

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

**ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0307493-09
MW-118

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC 8021 continued				1	8021B	0801 16:05 MM	
Vinyl Chloride	ND	ug/l	8.0				
Surrogate(s)	Recovery			QC Criteria			
4-Bromochlorobenzene	90.0	%	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: L0307493-10	Date Collected: 30-JUL-2003 13:35
MW-117	Date Received : 30-JUL-2003
Sample Matrix: WATER	Date Reported : 05-AUG-2003
Condition of Sample: Satisfactory	Field Prep: Field Filtered
Number & Type of Containers: 2-Plastic,2-Vial	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Chloride	58.	mg/l	1.0	1 9251		0731 18:56	DD
Chromium, Hexavalent	ND	mg/l	0.02	1 7196A	0730 19:45	0730 19:45	JT
Dissolved Metals							
Chromium, Dissolved	ND	mg/l	0.01	1 6010B		0731 13:50	RW
Manganese, Dissolved	ND	mg/l	0.01	1 6010B		0731 13:50	RW
Sodium, Dissolved	64.	mg/l	20.	1 6010B		0731 15:36	RW
Volatile Organics by GC 8021							
Bromodichloromethane	3.6	ug/l	0.50	1 8021B		0801 10:40	MM
Bromoform	ND	ug/l	0.50				
Carbon tetrachloride	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Dibromochloromethane	ND	ug/l	5.0				
Bromomethane/Chloroethane	ND	ug/l	5.0				
Chloroform	5.7	ug/l	0.50				
1,2-Dichlorobenzene	ND	ug/l	0.50				
1,3-Dichlorobenzene	ND	ug/l	0.50				
1,4-Dichlorobenzene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	0.50				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1-Dichloroethene	ND	ug/l	0.50				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
Methylene chloride	ND	ug/l	5.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Tetrachloroethene	ND	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.50				
Trichloroethene	2.4	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	0.50				
2-Chloroethylvinyl ether	ND	ug/l	5.0				
Chloromethane	ND	ug/l	5.0				

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

**ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0307493-10
MW-117

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC 8021 continued				1	8021B	0801 10:40 MM	
Vinyl Chloride	ND	ug/l	2.0				
Surrogate(s)	Recovery			QC Criteria			
4-Bromochlorobenzene	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: L0307493-11	Date Collected: 22-JUL-2003 13:10
	Date Received : 30-JUL-2003
Sample Matrix: TB WATER	Date Reported : 05-AUG-2003
Condition of Sample: Satisfactory	Field Prep: None
Number & Type of Containers: 1-Vial	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
Volatile Organics by GC 8021				1 8021B	0801 17:50 MM	
Bromodichloromethane	ND	ug/l	0.50			
Bromoform	ND	ug/l	0.50			
Carbon tetrachloride	ND	ug/l	0.50			
Chlorobenzene	ND	ug/l	0.50			
Dibromochloromethane	ND	ug/l	5.0			
Bromomethane/Chloroethane	ND	ug/l	5.0			
Chloroform	ND	ug/l	0.50			
1,2-Dichlorobenzene	ND	ug/l	0.50			
1,3-Dichlorobenzene	ND	ug/l	0.50			
1,4-Dichlorobenzene	ND	ug/l	0.50			
Dichlorodifluoromethane	ND	ug/l	5.0			
1,1-Dichloroethane	ND	ug/l	0.50			
1,2-Dichloroethane	ND	ug/l	0.50			
1,1-Dichloroethene	ND	ug/l	0.50			
cis-1,2-Dichloroethene	ND	ug/l	0.50			
trans-1,2-Dichloroethene	ND	ug/l	0.50			
1,2-Dichloropropane	ND	ug/l	0.50			
cis-1,3-Dichloropropene	ND	ug/l	0.50			
trans-1,3-Dichloropropene	ND	ug/l	0.50			
Methylene chloride	ND	ug/l	5.0			
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50			
Tetrachloroethene	ND	ug/l	0.50			
1,1,1-Trichloroethane	ND	ug/l	0.50			
1,1,2-Trichloroethane	ND	ug/l	0.50			
Trichloroethene	ND	ug/l	0.50			
Trichlorofluoromethane	ND	ug/l	0.50			
2-Chloroethylvinyl ether	ND	ug/l	5.0			
Chloromethane	ND	ug/l	5.0			
Vinyl Chloride	ND	ug/l	2.0			
Surrogate(s)	Recovery		QC Criteria			
4-Bromochlorobenzene	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: L0307493-12 Date Collected: 30-JUL-2003 00:00
DUP-2 Date Received : 30-JUL-2003
Sample Matrix: WATER Date Reported : 05-AUG-2003
Condition of Sample: Satisfactory Field Prep: Field Filtered
Number & Type of Containers: 2-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Chloride	57.	mg/l	1.0	1 9251		0731 18:57	DD
Chromium, Hexavalent	ND	mg/l	0.02	1 7196A	0730 19:45	0730 19:45	JT
Dissolved Metals							
Chromium, Dissolved	ND	mg/l	0.01	1 6010B		0731 13:54	RW
Manganese, Dissolved	ND	mg/l	0.01	1 6010B		0731 13:54	RW
Sodium, Dissolved	17.	mg/l	4.0	1 6010B		0731 15:40	RW
Volatile Organics by GC 8021							
Bromodichloromethane	ND	ug/l	0.50	1 8021B		0801 16:58	MM
Bromoform	ND	ug/l	0.50				
Carbon tetrachloride	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Dibromochloromethane	ND	ug/l	5.0				
Bromomethane/Chloroethane	ND	ug/l	5.0				
Chloroform	ND	ug/l	0.50				
1,2-Dichlorobenzene	ND	ug/l	0.50				
1,3-Dichlorobenzene	ND	ug/l	0.50				
1,4-Dichlorobenzene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	0.50				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1-Dichloroethene	ND	ug/l	0.50				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
Methylene chloride	ND	ug/l	5.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Tetrachloroethene	ND	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.50				
Trichloroethene	ND	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	0.50				
2-Chloroethylvinyl ether	ND	ug/l	5.0				
Chloromethane	ND	ug/l	5.0				

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

**ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0307493-12
DUP-2

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC 8021 continued				1	8021B	0801 16:58 MM	
Vinyl Chloride	ND	ug/l	2.0				
Surrogate(s)	Recovery			QC Criteria			
4-Bromochlorobenzene	86.0	%	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: L0307493-13		Date Collected: 30-JUL-2003 10:10
	MW-43S	Date Received : 30-JUL-2003
Sample Matrix: WATER		Date Reported : 05-AUG-2003
Condition of Sample: Satisfactory		Field Prep: None
Number & Type of Containers: 2-Vial		

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
Volatile Organics by GC 8021				1 8021B	0801 12:25 MM	
Bromodichloromethane	ND	ug/l	0.50			
Bromoform	ND	ug/l	0.50			
Carbon tetrachloride	ND	ug/l	0.50			
Chlorobenzene	ND	ug/l	0.50			
Dibromochloromethane	ND	ug/l	5.0			
Bromomethane/Chloroethane	ND	ug/l	5.0			
Chloroform	ND	ug/l	0.50			
1,2-Dichlorobenzene	ND	ug/l	0.50			
1,3-Dichlorobenzene	ND	ug/l	0.50			
1,4-Dichlorobenzene	ND	ug/l	0.50			
Dichlorodifluoromethane	ND	ug/l	5.0			
1,1-Dichloroethane	ND	ug/l	0.50			
1,2-Dichloroethane	ND	ug/l	0.50			
1,1-Dichloroethene	ND	ug/l	0.50			
cis-1,2-Dichloroethene	ND	ug/l	0.50			
trans-1,2-Dichloroethene	ND	ug/l	0.50			
1,2-Dichloropropane	ND	ug/l	0.50			
cis-1,3-Dichloropropene	ND	ug/l	0.50			
trans-1,3-Dichloropropene	ND	ug/l	0.50			
Methylene chloride	ND	ug/l	5.0			
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50			
Tetrachloroethene	0.75	ug/l	0.50			
1,1,1-Trichloroethane	ND	ug/l	0.50			
1,1,2-Trichloroethane	ND	ug/l	0.50			
Trichloroethene	8.2	ug/l	0.50			
Trichlorofluoromethane	ND	ug/l	0.50			
2-Chloroethylvinyl ether	ND	ug/l	5.0			
Chloromethane	ND	ug/l	5.0			
Vinyl Chloride	ND	ug/l	2.0			
Surrogate(s)	Recovery		QC Criteria			
4-Bromochlorobenzene	110.	%	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: L0307493-14 Date Collected: 30-JUL-2003 12:02
 MW-43D Date Received : 30-JUL-2003
 Sample Matrix: WATER Date Reported : 05-AUG-2003
 Condition of Sample: Satisfactory Field Prep: Field Filtered
 Number & Type of Containers: 2-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Chloride	58.	mg/l	1.0	1 9251		0731 18:09	DD
Chromium, Hexavalent	ND	mg/l	0.02	1 7196A	0730 19:45	0730 19:45	JT
Dissolved Metals							
Chromium, Dissolved	ND	mg/l	0.01	1 6010B		0731 13:58	RW
Manganese, Dissolved	ND	mg/l	0.01	1 6010B		0731 13:58	RW
Sodium, Dissolved	18.	mg/l	4.0	1 6010B		0731 15:44	RW
Volatile Organics by GC 8021				1 8021B		0801 13:17	MM
Bromodichloromethane	ND	ug/l	0.50				
Bromoform	ND	ug/l	0.50				
Carbon tetrachloride	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Dibromochloromethane	ND	ug/l	5.0				
Bromomethane/Chloroethane	ND	ug/l	5.0				
Chloroform	ND	ug/l	0.50				
1,2-Dichlorobenzene	ND	ug/l	0.50				
1,3-Dichlorobenzene	ND	ug/l	0.50				
1,4-Dichlorobenzene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	0.50				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1-Dichloroethene	ND	ug/l	0.50				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
Methylene chloride	ND	ug/l	5.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Tetrachloroethene	ND	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.50				
Trichloroethene	ND	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	0.50				
2-Chloroethylvinyl ether	ND	ug/l	5.0				
Chloromethane	ND	ug/l	5.0				

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

**ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0307493-14
MW-43D

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC 8021 continued				1	8021B	0801 13:17 MM	
Vinyl Chloride	ND	ug/l	2.0				
Surrogate(s)	Recovery			QC Criteria			
4-Bromochlorobenzene	104.	%	70-130				

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

ALPHA ANALYTICAL LABORATORIES
 QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS

Laboratory Job Number: L0307493

Parameter	Value 1	Value 2	Units	RPD	RPD Limits
Chloride for sample(s) 06,08-10,12,14 (L0307493-08, WG146615)					
Chloride	220	230	mg/l	4	
Chromium, Hexavalent for sample(s) 06,08-10,12,14 (L0307493-09, WG146541)					
Chromium, Hexavalent	ND	ND	mg/l	NC	
Dissolved Metals for sample(s) 06,08-10,12,14 (L0307425-01, WG146455)					
Chromium, Dissolved	ND	ND	mg/l	NC	20
Manganese, Dissolved	4.7	0.02	mg/l	4	20
Sodium, Dissolved	44.	18.	mg/l	0	20

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

Laboratory Job Number: L0307493

Parameter	% Recovery	QC Criteria
Chloride LCS for sample(s) 06,08-10,12,14 (WG146615)		
Chloride	97	
Chromium, Hexavalent LCS for sample(s) 06,08-10,12,14 (WG146541)		
Chromium, Hexavalent	100	
Volatile Organics by GC 8021 LCS for sample(s) 01 (WG146717)		
Chlorobenzene	115	70-130
1,1-Dichloroethene	108	70-130
Trichloroethene	111	70-130
Surrogate(s)		
4-Bromochlorobenzene	115	70-130
Volatile Organics by GC 8021 LCS for sample(s) 02-06 (WG146717)		
Chlorobenzene	108	70-130
1,1-Dichloroethene	108	70-130
Trichloroethene	111	70-130
Surrogate(s)		
4-Bromochlorobenzene	97	70-130
Volatile Organics by GC 8021 LCS for sample(s) 07-14 (WG146717)		
Chlorobenzene	102	70-130
1,1-Dichloroethene	107	70-130
Trichloroethene	111	70-130
Surrogate(s)		
4-Bromochlorobenzene	116	70-130
Chloride SPIKE for sample(s) 06,08-10,12,14 (L0307500-01, WG146615)		
Chloride	100	
Chromium, Hexavalent SPIKE for sample(s) 06,08-10,12,14 (L0307493-14, WG146541)		
Chromium, Hexavalent	101	
Dissolved Metals SPIKE for sample(s) 06,08-10,12,14 (L0307425-02, WG146455)		
Chromium, Dissolved	100	75-125
Manganese, Dissolved	84	75-125
Sodium, Dissolved	110	75-125

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH MS/MSD ANALYSIS

Laboratory Job Number: L0307493

Parameter	MS %	MSD %	RPD	RPD Limit	MS/MSD Limits
Volatile Organics by GC 8021 for sample(s) 01-14 (L0307451-08, WG146717)					
Chlorobenzene	111	108	3	20	70-130
1,1-Dichloroethene	111	107	4	20	70-130
Trichloroethene	105	99	6	20	70-130
Surrogate(s)					
4-Bromochlorobenzene	113	109	4		70-130

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0307493

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
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Blank Analysis for sample(s) 06,08-10,12,14 (WG146615-2)

Chloride	ND	mg/l	1.0	1 9251	0731 17:54	DD
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Blank Analysis for sample(s) 06,08-10,12,14 (WG146541-1)

Chromium, Hexavalent	ND	mg/l	0.02	1 7196A	0730 19:45	0730 19:45 JT
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Blank Analysis for sample(s) 01 (WG146717-4)

Volatile Organics by GC 8021				1 8021B	0731 09:03	MM
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Bromodichloromethane	ND	ug/l	0.50			
Bromoform	ND	ug/l	0.50			
Carbon tetrachloride	ND	ug/l	0.50			
Chlorobenzene	ND	ug/l	0.50			
Dibromochloromethane	ND	ug/l	5.0			
Bromomethane/Chloroethane	ND	ug/l	5.0			
Chloroform	ND	ug/l	0.50			
1,2-Dichlorobenzene	ND	ug/l	0.50			
1,3-Dichlorobenzene	ND	ug/l	0.50			
1,4-Dichlorobenzene	ND	ug/l	0.50			
Dichlorodifluoromethane	ND	ug/l	5.0			
1,1-Dichloroethane	ND	ug/l	0.50			
1,2-Dichloroethane	ND	ug/l	0.50			
1,1-Dichloroethene	ND	ug/l	0.50			
cis-1,2-Dichloroethene	ND	ug/l	0.50			
trans-1,2-Dichloroethene	ND	ug/l	0.50			
1,2-Dichloropropane	ND	ug/l	0.50			
cis-1,3-Dichloropropene	ND	ug/l	0.50			
trans-1,3-Dichloropropene	ND	ug/l	0.50			
Methylene chloride	ND	ug/l	5.0			
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50			
Tetrachloroethene	ND	ug/l	0.50			
1,1,1-Trichloroethane	ND	ug/l	0.50			
1,1,2-Trichloroethane	ND	ug/l	0.50			
Trichloroethene	ND	ug/l	0.50			
Trichlorofluoromethane	ND	ug/l	0.50			
2-Chloroethylvinyl ether	ND	ug/l	5.0			
Chloromethane	ND	ug/l	5.0			
Vinyl Chloride	ND	ug/l	2.0			

Surrogate(s)	Recovery			QC Criteria		
4-Bromochlorobenzene	99.0	%		70-130		

Blank Analysis for sample(s) 02-06 (WG146717-6)

Volatile Organics by GC 8021				1 8021B	0731 21:00	MM
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Bromodichloromethane	ND	ug/l	0.50			
Bromoform	ND	ug/l	0.50			
Carbon tetrachloride	ND	ug/l	0.50			
Chlorobenzene	ND	ug/l	0.50			

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0307493

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 02-06 (WG146717-6)							
Volatile Organics by GC 8021 continued				1	8021B	0731	21:00 MM
Dibromochloromethane	ND	ug/l	5.0				
Bromomethane/Chloroethane	ND	ug/l	5.0				
Chloroform	ND	ug/l	0.50				
1,2-Dichlorobenzene	ND	ug/l	0.50				
1,3-Dichlorobenzene	ND	ug/l	0.50				
1,4-Dichlorobenzene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	0.50				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1-Dichloroethene	ND	ug/l	0.50				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
Methylene chloride	ND	ug/l	5.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Tetrachloroethene	ND	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.50				
Trichloroethene	ND	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	0.50				
2-Chloroethylvinyl ether	ND	ug/l	5.0				
Chloromethane	ND	ug/l	5.0				
Vinyl Chloride	ND	ug/l	2.0				
Surrogate(s)	Recovery			QC Criteria			
4-Bromochlorobenzene	105.	%		70-130			
Blank Analysis for sample(s) 07-14 (WG146717-8)							
Volatile Organics by GC 8021				1	8021B	0801	09:12 MM
Bromodichloromethane	ND	ug/l	0.50				
Bromoform	ND	ug/l	0.50				
Carbon tetrachloride	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Dibromochloromethane	ND	ug/l	5.0				
Bromomethane/Chloroethane	ND	ug/l	5.0				
Chloroform	ND	ug/l	0.50				
1,2-Dichlorobenzene	ND	ug/l	0.50				
1,3-Dichlorobenzene	ND	ug/l	0.50				
1,4-Dichlorobenzene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	0.50				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1-Dichloroethene	ND	ug/l	0.50				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.50				

ALPHA ANALYTICAL LABORATORIES
 QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0307493

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 07-14 (WG146717-8)							
Volatile Organics by GC 8021 continued				1	8021B	0801 09:12 MM	
1,2-Dichloropropane	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
Methylene chloride	ND	ug/l	5.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Tetrachloroethene	ND	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.50				
Trichloroethene	ND	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	0.50				
2-Chloroethylvinyl ether	ND	ug/l	5.0				
Chloromethane	ND	ug/l	5.0				
Vinyl Chloride	ND	ug/l	2.0				
Surrogate(s)	Recovery			QC Criteria			
4-Bromochlorobenzene	103.	%		70-130			

ALPHA ANALYTICAL LABORATORIES
ADDENDUM I

REFERENCES

1. Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Update III, 1997.

GLOSSARY OF TERMS AND SYMBOLS

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

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

LIMITATION OF LIABILITIES

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

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



CHAIN OF CUSTODY

PAGE 1 OF 2

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

Client Information

Client: ERM
Address: 394 Baystate St Fl 6
Boston MA 02116
Phone: 617 267 8377
Fax: 617 267 6447
Email:

Project Information

Project Name: Raytheon
Project Location: Wayland, MA
Project #: 1927 09
Project Manager: TPac
ALPHA Quote #:

Turn-Around Time

Standard RUSH (only confirmed if pre-approved)

Date Due: 8/6 Time:

These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments:

ALPHA Job #: L0307493

Billing Information

Same as Client info PO #:

Report Information - Data Deliverables

FAX
 ADEX
Criteria Checker: _____
(Default based on Regulatory Criteria Indicated)
Other Formats: _____
 EMAIL (standard pdf report)
 Additional Deliverables:
S&P
Report to: (if different than Project Manager)

Regulatory Requirements/Report Limits

State /Fee Program Criteria

ANALYSIS	8021C	8021C	hex, Cs, Cl	8021C	hex, Cs, Cl

TOTAL # BOTTLES	2	2	2	2	2	4	2	4	4	4
SAMPLE HANDLING										
Filtration										
<input type="checkbox"/> Done										
<input type="checkbox"/> Not needed										
<input type="checkbox"/> Lab to do										
<input type="checkbox"/> Preservation										
<input type="checkbox"/> Lab to do										
(Please specify below)										
Sample Specific Comments										

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Time	Sample Matrix	Sampler's Initials
2493.1	MW-104	7/30/03	1026	MW	JF
2	MW-105	7/30/03	1050	MW	PL
3	MW-105M	7/30/03	1111	MW	PL
4	MW-106	7/30/03	1140	MW	MB
5	MW-106M	7/30/03	1030	MW	MB
6	MW-209	7/30/03	1328	MW	JF
7	MW-210	7/30/03	1048	MW	JF
8	MW-211	7/30/03	1451	MW	JF
9	MW-118	7/30/03	1340	MW	PL
10	MW-117	7/30/03	1335	MW	MB

Shaded Gray Areas For Lab Use Only

Container Type VVP
Preservative BOCA

Relinquished By: [Signature]

Date/Time: 15:00/7/30/03

Received By: [Signature]

Date/Time: 7/30/03/15:00

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



CHAIN OF CUSTODY PAGE 2 OF 2
 Eight Walkup Drive Westborough, MA 01581
 TEL: 508-898-9220 FAX: 508-898-9193

Project Information

Project Name: Raytheon
 Project Location: Weyland, MA
 Project #: 1922.09
 Project Manager: TPAC
 ALPHA Quote #:

Client Information

Client: ERM
 Address: 399 Boylston St Flg
Boston MA 02116
 Phone: 617 267 8377
 Fax: 617 267 6447
 Email:

Turn-Around Time
 Standard RUSH (only confirm if pre-approved)
 Date Due: 8/6 Time:

These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments:

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials
		Date	Time		
<u>7193-11</u>	<u>TB</u>	<u>lab supplied</u>			
<u>12</u>	<u>DUP-2</u>	<u>7/30/03 2900</u>	<u>MW</u>	<u>JF</u>	
<u>13</u>	<u>MW-435</u>	<u>7/30/03 1010</u>	<u>MW</u>	<u>PL</u>	
<u>14</u>	<u>MW-43D</u>	<u>7/30/03 1202</u>	<u>MW</u>	<u>JF</u>	

ALPHA Job #: 60307493

Report Information - Data Deliverables

FAX
 ADEX
 Criteria Checker: _____
(Default based on Regulatory Criteria Indicated)
 Other Formats: _____
 EMAIL (standard pdf report)
 Additional Deliverables: std post
 Report to: (if different than Project Manager)

Billing Information

Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed	Program	Criteria

ANALYSIS	TOTAL # BOTTLES	SAMPLE HANDLING	Sample Specific Comments
8021C * Class M.C.L.C. Hox C.C.I. 8028	1	<input type="checkbox"/> Filtration <input type="checkbox"/> Done <input type="checkbox"/> Not needed <input type="checkbox"/> Lab to do <input type="checkbox"/> Preservation <input type="checkbox"/> Lab to do <small>(Please specify below)</small>	
	4		
	2		* Field filtered
	4		

Shaded Gray Areas For Lab Use Only

Container Type	<u>VP</u>
Preservative	<u>CAO</u>
Date/Time	<u>1655/7/31/03</u>

Relinquished By: WEL
 Received By: R. [Signature]
 Date/Time: 7/30/03

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