

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: L0413793
Address: 399 Boylston Street
6th Floor
Boston, MA 02116 Date Received: 09-DEC-2004
Attn: Jeremy Picard Date Reported: 15-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: L0413793
Date Reported: 15-DEC-2004

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0413793-01	MW-212M	WAYLAND
L0413793-02	MW-212	WAYLAND
L0413793-03	MW-115	WAYLAND

ALPHA ANALYTICAL LABORATORIES
NARRATIVE REPORT

Laboratory Job Number: L0413793

MCP Related Narratives

Report Submission

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

Metals

L0413793-01 through -03 were re-analyzed on the following dilutions in order to quantitate the Sodium within the range of the calibration. The result is reported as a greater than value for the compound that exceeded the calibration on the initial analysis. The re-analysis was performed only for the compound which exceeded the range of the calibration:

L0413793-01: 50x

L0413793-02: 20x

L0413793-03: 5x

**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: L0413793-01 Date Collected: 08-DEC-2004 14:36
 Sample Matrix: MW-212M Date Received : 09-DEC-2004
 WATER Date Reported : 15-DEC-2004
 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	180	mg/l	10.	1 9251		1211 15:29	ED
Dissolved Metals by MCP 6000/7000 series				60 6010B			
Sodium, Dissolved	>20	mg/l	2	60 6010B	1213 18:00	1214 16:16	RW
Sodium, Dissolved	320	mg/l	100	60 6010B	1213 18:00	1214 18:16	RW
Volatile Organics by MCP 8260B				60 8260B		1213 22:53	SE
Methylene chloride	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	0.75				
Chloroform	ND	ug/l	0.75				
Carbon tetrachloride	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	1.8				
Dibromochloromethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.75				
Tetrachloroethene	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
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	2.7	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				

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0413793-01
MW-212M

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B continued				60 8260B	1213	22:53	SE
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	103.	%		70-130			
4-Bromofluorobenzene	101.	%		70-130			
Dibromofluoromethane	103.	%		70-130			

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

ALPHA ANALYTICAL LABORATORIES
 CERTIFICATE OF ANALYSIS

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

Laboratory Sample Number: L0413793-02 Date Collected: 08-DEC-2004 15:53
 MW-212 Date Received : 09-DEC-2004
 Sample Matrix: WATER Date Reported : 15-DEC-2004
 Condition of Sample: Satisfactory Field Prep: Field Filtered
 Number & Type of Containers: 6-Plastic,5-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Chloride	13.	mg/l	1.0	1 9251		1211 16:12	ED
Dissolved Metals by MCP 6000/7000 series				60 6010B			
Sodium, Dissolved	>20	mg/l	2	60 6010B	1213 18:00	1214 16:18	RW
Sodium, Dissolved	120	mg/l	40.	60 6010B	1213 18:00	1214 18:19	RW
Volatile Organics by MCP 8260B				60 8260B		1213 23:29	SE
Methylene chloride	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	0.75				
Chloroform	ND	ug/l	0.75				
Carbon tetrachloride	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	1.8				
Dibromochloromethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.75				
Tetrachloroethene	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
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	0.89	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				

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

ALPHA ANALYTICAL LABORATORIES
 CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0413793-02
 MW-212

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B continued				60 8260B	1213	23:29	SE
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	110.	%		70-130			
Toluene-d8	102.	%		70-130			
4-Bromofluorobenzene	101.	%		70-130			
Dibromofluoromethane	101.	%		70-130			

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

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

Laboratory Sample Number: L0413793-03	Date Collected: 08-DEC-2004 12:30
MW-115	Date Received : 09-DEC-2004
Sample Matrix: WATER	Date Reported : 15-DEC-2004
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	56.	mg/l	1.0	1 9251		1211 15:12	ED
Dissolved Metals by MCP 6000/7000 series				60 6010B			
Sodium, Dissolved	>20	mg/l	2	60 6010B	1213 18:00	1214 16:21	RW
Sodium, Dissolved	39.	mg/l	10.	60 6010B	1213 18:00	1214 18:21	RW
Volatile Organics by MCP 8260B				60 8260B		1214 00:05	SE
Methylene chloride	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	0.75				
Chloroform	ND	ug/l	0.75				
Carbon tetrachloride	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	1.8				
Dibromochloromethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.75				
Tetrachloroethene	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1,1-Trichloroethane	16.	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	14.	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	0.93	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				

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

ALPHA ANALYTICAL LABORATORIES
 CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0413793-03
 MW-115

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B continued				60 8260B	1214 00:05		SE
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	103.	%		70-130			
4-Bromofluorobenzene	99.0	%		70-130			
Dibromofluoromethane	102.	%		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: L0413793

Parameter	Value 1	Value 2	Units	RPD	RPD Limits
Chloride for sample(s) 01-03 (L0413679-02, WG189152)					
Chloride	77.	75.	mg/l	3	7

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0413793

Parameter	% Recovery	QC Criteria
Chloride LCS for sample(s) 01-03 (WG189152)		
Chloride	93	84-110
Chloride SPIKE for sample(s) 01-03 (L0413679-03, WG189152)		
Chloride	85	58-140

ALPHA ANALYTICAL LABORATORIES
 QUALITY ASSURANCE BATCH LCS/LCSD ANALYSIS

Laboratory Job Number: L0413793

Parameter	LCS %	LCSD %	RPD	RPD Limit	QC Limits
Dissolved Metals by MCP 6000/7000 series for sample(s) 01-03 (WG189238-2, WG189238)					
Sodium, Dissolved	100	100	0	20	75-125
Volatile Organics by MCP 8260B for sample(s) 01-03 (WG189281-1, WG189281)					
Methylene chloride	104	100	4	25	70-130
1,1-Dichloroethane	109	103	6	25	70-130
Chloroform	104	98	6	25	70-130
Carbon tetrachloride	110	102	8	25	70-130
1,2-Dichloropropane	108	103	5	25	70-130
Dibromochloromethane	108	105	3	25	70-130
1,1,2-Trichloroethane	104	103	1	25	70-130
Tetrachloroethene	104	103	1	25	70-130
Chlorobenzene	106	104	2	25	70-130
Trichlorofluoromethane	111	104	7	25	70-130
1,2-Dichloroethane	108	107	1	25	70-130
1,1,1-Trichloroethane	107	103	4	25	70-130
Bromodichloromethane	105	100	5	25	70-130
trans-1,3-Dichloropropene	108	106	2	25	70-130
cis-1,3-Dichloropropene	106	102	4	25	70-130
1,1-Dichloropropene	112	105	6	25	70-130
Bromoform	99	101	2	50	70-130
1,1,2,2-Tetrachloroethane	102	99	3	25	70-130
Benzene	107	99	8	25	70-130
Toluene	105	100	5	25	70-130
Ethylbenzene	106	102	4	25	70-130
Chloromethane	100	89	12	50	70-130
Bromomethane	108	100	8	50	70-130
Vinyl chloride	99	88	12	25	70-130
Chloroethane	102	85	18	25	70-130
1,1-Dichloroethene	103	96	7	25	70-130
trans-1,2-Dichloroethene	110	102	8	25	70-130
Trichloroethene	107	99	8	25	70-130
1,2-Dichlorobenzene	104	98	6	25	70-130
1,3-Dichlorobenzene	105	100	5	25	70-130
1,4-Dichlorobenzene	105	100	5	25	70-130
Methyl tert butyl ether	103	106	3	25	70-130
p/m-Xylene	111	104	7	25	70-130
o-Xylene	107	102	5	25	70-130
cis-1,2-Dichloroethene	102	97	5	25	70-130
Dibromomethane	109	103	6	25	70-130
1,2,3-Trichloropropane	106	104	2	25	70-130
Styrene	111	106	5	25	70-130
Dichlorodifluoromethane	81	73	10	50	70-130
Acetone	113	107	5	50	70-130
Carbon disulfide	107	96	11	25	70-130
2-Butanone	110	104	6	50	70-130
4-Methyl-2-pentanone	102	98	4	50	70-130
2-Hexanone	114	112	2	50	70-130
Bromochloromethane	105	99	6	25	70-130

ALPHA ANALYTICAL LABORATORIES
 QUALITY ASSURANCE BATCH LCS/LCSD ANALYSIS

Laboratory Job Number: L0413793

Continued

Parameter	LCS %	LCSD %	RPD	RPD Limit	QC Limits
Volatile Organics by MCP 8260B for sample(s) 01-03 (WG189281-1, WG189281)					
Tetrahydrofuran	110	108	2	25	70-130
2,2-Dichloropropane	106	101	5	25	70-130
1,2-Dibromoethane	106	104	2	25	70-130
1,3-Dichloropropane	106	105	1	25	70-130
1,1,1,2-Tetrachloroethane	109	106	3	25	70-130
Bromobenzene	104	98	6	25	70-130
n-Butylbenzene	107	100	7	25	70-130
sec-Butylbenzene	105	98	7	25	70-130
tert-Butylbenzene	105	99	6	25	70-130
o-Chlorotoluene	105	98	7	25	70-130
p-Chlorotoluene	104	100	4	25	70-130
1,2-Dibromo-3-chloropropane	110	108	2	50	70-130
Hexachlorobutadiene	99	94	5	25	70-130
Isopropylbenzene	109	105	4	25	70-130
p-Isopropyltoluene	107	100	7	25	70-130
Naphthalene	106	103	3	25	70-130
n-Propylbenzene	107	99	8	25	70-130
1,2,3-Trichlorobenzene	106	103	3	25	70-130
1,2,4-Trichlorobenzene	106	100	6	25	70-130
1,3,5-Trimethylbenzene	107	102	5	25	70-130
1,2,4-Trimethylbenzene	106	99	7	25	70-130
Ethyl ether	116	104	11	25	70-130
Isopropyl Ether	106	102	4	25	70-130
Ethyl-Tert-Butyl-Ether	105	100	5	25	70-130
Tertiary-Amyl Methyl Ether	102	101	1	25	70-130
1,4-Dioxane	110	111	1	50	70-130
Surrogate (s)					
1,2-Dichloroethane-d4	105	107	2		70-130
Toluene-d8	101	103	2		70-130
4-Bromofluorobenzene	99	101	2		70-130
Dibromofluoromethane	104	104	0		70-130

ALPHA ANALYTICAL LABORATORIES
 QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0413793

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 01-03 (WG189152-1)							
Chloride	ND	mg/l	1.0	1 9251		1211 14:54	ED
Blank Analysis for sample(s) 01-03 (WG189238-1)							
Dissolved Metals by MCP 6000/7000 series 60 6010B							
Sodium, Dissolved	ND	mg/l	2.0	60 6010B		1213 18:00 1214 16:08	RW
Blank Analysis for sample(s) 01-03 (WG189281-3)							
Volatile Organics by MCP 8260B 60 8260B 1213 17:28 SE							
Methylene chloride	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	0.75				
Chloroform	ND	ug/l	0.75				
Carbon tetrachloride	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	1.8				
Dibromochloromethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.75				
Tetrachloroethene	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	2.5				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
Bromodichloromethane	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
1,1-Dichloropropene	ND	ug/l	2.5				
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				

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0413793

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 01-03 (WG189281-3)							
Volatile Organics by MCP 8260B continued							
				60 8260B		1213 17:28	SE
Dichlorodifluoromethane	ND	ug/l	5.0				
Acetone	ND	ug/l	5.0				
Carbon disulfide	ND	ug/l	5.0				
2-Butanone	ND	ug/l	5.0				
4-Methyl-2-pentanone	ND	ug/l	5.0				
2-Hexanone	ND	ug/l	5.0				
Bromochloromethane	ND	ug/l	2.5				
Tetrahydrofuran	ND	ug/l	10.				
2,2-Dichloropropane	ND	ug/l	2.5				
1,2-Dibromoethane	ND	ug/l	2.0				
1,3-Dichloropropane	ND	ug/l	2.5				
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50				
Bromobenzene	ND	ug/l	2.5				
n-Butylbenzene	ND	ug/l	0.50				
sec-Butylbenzene	ND	ug/l	0.50				
tert-Butylbenzene	ND	ug/l	2.5				
o-Chlorotoluene	ND	ug/l	2.5				
p-Chlorotoluene	ND	ug/l	2.5				
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5				
Hexachlorobutadiene	ND	ug/l	1.0				
Isopropylbenzene	ND	ug/l	0.50				
p-Isopropyltoluene	ND	ug/l	0.50				
Naphthalene	ND	ug/l	2.5				
n-Propylbenzene	ND	ug/l	0.50				
1,2,3-Trichlorobenzene	ND	ug/l	2.5				
1,2,4-Trichlorobenzene	ND	ug/l	2.5				
1,3,5-Trimethylbenzene	ND	ug/l	2.5				
1,2,4-Trimethylbenzene	ND	ug/l	2.5				
Ethyl ether	ND	ug/l	2.5				
Isopropyl Ether	ND	ug/l	2.0				
Ethyl-Tert-Butyl-Ether	ND	ug/l	2.0				
Tertiary-Amyl Methyl Ether	ND	ug/l	2.0				
1,4-Dioxane	ND	ug/l	250				
Surrogate (s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	106.	%		70-130			
Toluene-d8	104.	%		70-130			
4-Bromofluorobenzene	101.	%		70-130			
Dibromofluoromethane	103.	%		70-130			

ALPHA ANALYTICAL LABORATORIES
ADDENDUM I

REFERENCES

1. Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.
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: L0413793

Were project specific reporting limits specified? YES

Cooler Information

Cooler Custody Seal

A Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp	Pres	Seal	Analysis
L0413793-01A	Vial HCl preserved	A	N/A	2.0 C	Y	Absent	MCP-8260-04
L0413793-01B	Vial HCl preserved	A	N/A	2.0 C	Y	Absent	MCP-8260-04
L0413793-01C	Plastic 250ml HNO3 preserved	A	<2	2.0 C	Y	Absent	MCP-NA-6010S
L0413793-01D	Plastic 250ml unpreserved	A	=7	2.0 C	Y	Absent	CL-9251
L0413793-02A	Vial HCl preserved	A	N/A	2.0 C	Y	Absent	MCP-8260-04
L0413793-02B	Vial HCl preserved	A	N/A	2.0 C	Y	Absent	MCP-8260-04
L0413793-02C	Plastic 250ml HNO3 preserved	A	<2	2.0 C	Y	Absent	MCP-NA-6010S
L0413793-02D	Plastic 250ml unpreserved	A	=7	2.0 C	Y	Absent	CL-9251
L0413793-02E	Vial HCl preserved	A	N/A	2.0 C	Y	Absent	MCP-8260-04
L0413793-02F	Vial HCl preserved	A	N/A	2.0 C	Y	Absent	MCP-8260-04
L0413793-02G	Vial HCl preserved	A	N/A	2.0 C	Y	Absent	MCP-8260-04
L0413793-02I	Plastic 250ml HNO3 preserved	A	<2	2.0 C	Y	Absent	MCP-NA-6010S
L0413793-02J	Plastic 250ml HNO3 preserved	A	<2	2.0 C	Y	Absent	MCP-NA-6010S
L0413793-02K	Plastic 250ml unpreserved	A	=7	2.0 C	Y	Absent	CL-9251
L0413793-02L	Plastic 250ml unpreserved	A	=7	2.0 C	Y	Absent	CL-9251
L0413793-03A	Vial HCl preserved	A	N/A	2.0 C	Y	Absent	MCP-8260-04
L0413793-03B	Vial HCl preserved	A	N/A	2.0 C	Y	Absent	MCP-8260-04
L0413793-03C	Plastic 250ml HNO3 preserved	A	<2	2.0 C	Y	Absent	MCP-NA-6010S
L0413793-03D	Plastic 250ml unpreserved	A	=7	2.0 C	Y	Absent	CL-9251

Container Comments

Container ID Comments



CHAIN OF CUSTODY

PAGE 1 OF 1

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

Client Information

Client: **ERW**

Address: **392 Boylston St**

Boston, MA

Phone: **617-646-7000**

Fax:

Email:

These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

Na is field standard

Project Information

Project Name: **Former Raytheon Facility**

Project Location: **Weyland, MA**

Project #: **13606**

Project Manager: **J. Picard**

ALPHA Quote #:

Turn-Around Time

Standard RUSH (only confirmed if pre-approved)

Date Due: **12/16** Time:

Date Rec'd In Lab:

12/9

ALPHA Job #:

20013793

Report Information - Data Deliverables

FAX EMAIL

ADEX Add'l Deliverables

Regulatory/Requirements/Report Limits

State / Fed Program

Criteria

Billing Information

Same as Client Info

PO #:

MCP PRESUMPTIVE CERTAINTY - THESE QUESTIONS MUST BE ANSWERED

Yes No Are MCP Analytical Methods Required?
 Yes No Are Drinking Water Samples Submitted?
 Yes No Have you met minimum field QC requirements?

ANALYSIS

**8021 B Chlorinates
Dissolved Na⁺
Cl**

SAMPLE HANDLING

Filtration
 Done
 Not needed
 Lab to do
 Preservation
 Lab to do
(Please specify below)

Sample Specific Comments

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	ANALYSIS	SAMPLE HANDLING	Sample Specific Comments
		Date	Time					
37921	MW-212 M	12/8/04	1436	GW	SDF	2 1 1		
	MW-212	12/8/04	1543	GW	SDF	2 1 1		
	MS MW-212	12/8/04	1549	GW	SDF	2 1 1		
	MSD MW-212	12/8/04	1553	GW	SDF	2 1 1		
	MW-115	12/8/04	1230	GW	BH	2 1 1		
	MW-212	12/10/04	1500	GW	BH	2		

QUESTIONS ABOVE MUST BE ANSWERED FOR PRESUMPTIVE CERTAINTY

IS YOUR PROJECT MCP?

Relinquished By:

[Signature]

Date/Time

12/9/04 1730

Received By:

[Signature]

Date/Time

12/9/04 1546

Container Type Preservative

V P P
B C A

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.