## ALPHA ANALYTICAL LABORATORIES

# Eight Walkup Drive Westborough, Massachusetts 01581-1019 (508) 898-9220 www.alphalab.com

## 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: L0407840

Address: 399 Boylston Street

6th Floor

Boston, MA 02116 Date Received: 19-JUL-2004

Attn: Jeremy Picard Date Reported: 26-JUL-2004

Project Number: 13606.03 Delivery Method: Alpha

Site: RAYTHEON

ALPHA SAMPLE NUMBER CLIENT IDENTIFICATION SAMPLE LOCATION

L0407840-01 MW-265M WAYLAND, MA

Authorized by: Scott McLean

This document electronically signed

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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.

# 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: L0407840-01 Date Collected: 19-JUL-2004 15:25

MW-265M Date Received: 19-JUL-2004
Sample Matrix: WATER Date Reported: 26-JUL-2004

Condition of Sample: Satisfactory Field Prep: None

Number & Type of Containers: 2-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE ID PREP ANAL
Dissolved Gases by GC				53 -	0723 08:50 PS
Methane Ethene Ethane	11.6 12.3 ND	ug/l ug/l ug/l	0.300 0.500 0.500		

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

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# ALPHA ANALYTICAL LABORATORIES QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0407840

Parameter	% Recovery Q	C Criteria
Dissolved Gases by	GC LCS for sample(s) 01	(WG176621)
Methane	109	80-120
Ethene	101	80-120
Ethane	103	80-120
Dissolved Gases by GC SPI	KE for sample(s) 01 (L04	07963-03, WG176621)
Methane	92	80-120
Ethene	87	80-120
Ethane	90	80-120

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# ALPHA ANALYTICAL LABORATORIES QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0407840

RESULT	UNITS	RDL	REF METHOD	DATE	ID
				PREP ANAL	
nalysis for sa	mple(s) 01	L (WG176	621-4)		
			53 -	0723 08:	18 PS
ND	ug/l	0.300			
ND	ug/l	0.500			
ND	ug/l	0.500			
	nalysis for sa ND ND	nalysis for sample(s) 01  ND ug/l  ND ug/l	nalysis for sample(s) 01 (WG176)  ND ug/l 0.300  ND ug/l 0.500	nalysis for sample(s) 01 (WG176621-4)  53 -  ND ug/l 0.300  ND ug/l 0.500	PREP ANAL  malysis for sample(s) 01 (WG176621-4)  53 - 0723 08:  ND ug/l 0.300  ND ug/l 0.500

# ALPHA ANALYTICAL LABORATORIES ADDENDUM I

### REFERENCES

53. Analysis of Dissolved Methane, Ethane & Ethylene in Groundwater by a Standard Gas Chromatographic Technique, Kampbell & Vandegrift, EPA-OK, Journal of Chrom, Vol 36, May 1998 & Technical Guidance for the Natural Attenuation Indicators, EPA-NE, July 2001.

### 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.

TEL:

# CHAIN OF CUSTODY PAGE \_\_\_\_\_OF\_\_

Date Rec'd in Lab:

7/10 | ALPHA Job#: LO 4078 40

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	Project Information	Report Information - Data Deliverables Bil	Billing Information
Eight Walkup Drive Westborough, MA 01581	Project Name: 20 theca	UTEMAIL .	□ Same as Client info PO#:
ClientInformation	Project Location: Cocycle And The	PADEX Add Deliveraties	
Client:	Proect # 136000.03	State /Fed Program Citeria	
Address: 299 BONSON SX	Project Manager: U. V. Card	İ	
PUGD: 77	ALPHA Quote#:	MCPPRESUMPTIVE CERTAINTY-THESE QUESTIONS MUST BEANSWERED	ONS MUST BE ANSWERED
Phone:	Turn-Around Time	© Yes J No Are MCP Analytical Methods Required? ☐ Yes U+100 Are Drinking Water Samples Submitted?	ired?
Fax:	Standard RUSH conference of pre-equivolvents		quirements?
Email:	Date Due:	iliopo	SAMPLE HANDLING T
Other Project Specific Requirements/Comments/Detection Limits:	nents/Detection Limits:	NALY: OXI HC Strong MX. N	Filtration L+Done U+Done Not needed
		Le losen	Preservation 0
ALPHA Lab ID (Lab Use Ony) Sample ID	Collection Sample Sampler's Date Time Marrix Initials	C D D D C C	Sample Specific Comments S
Clos >	7-19-04 1250 QU 351		Diss Repair 2
12 SON2- ON 1.0#3E	7504 VSVS GW 37	2 \ 2 \	Liek 6 Joseph 6
	7.49.04 1400 6 3-1		1/0-45 FGD C
QUESTIONS ABOVE MUST BE ANSWERED FOR PRESUMPTIVE CERTAINTY	Preservative	プ Z O V D Z D Z	Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock
PROJECT	Relinquished By: Date/Time	Received By: Date/Time	/T.
MCP >	10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		See reverse side.

TOTAL OVER OF