McPHAIL
ASSOCIATES, INC.
Geotechnical Engineers

APPENDIX D

McPhail Associates, Inc. Groundwater Monitoring Reports

GROUNDWATER MONITORING REPORT

Well I.D.	B-201	Elevation Subtrahend	+16.5	Job. No. / Job Name	4371 - SIMMONS COLLEGE SCHOOL OF MANAGEMENT	
Date	**Time**	**Elapsed Time**	**Depth of Water from R-Box Top**	**Elevation of Water**	**Remarks**	**Read By**
		Days	**Feet**	**Feet**		
08/29/05	15:00	0	8.5	+8.0	Upon Installation	AMF
08/31/05	11:15	2	7.8	+8.7	Bailed Well	AMF
09/06/05	10:00	8	8.1	+8.5		RJC

GROUNDWATER MONITORING REPORT

Well I.D.	B-207	Elevation Subtrahend	+15.9	Job. No. / Job Name	4371 - SIMMONS COLLEGE SCHOOL OF MANAGEMENT	
Date	**Time**	**Elapsed Time**	**Depth of Water from R-Box Top**	**Elevation of Water**	**Remarks**	**Read By**
		Days	**Feet**	**Feet**		
08/25/05	15:00	0	8.0	+7.9	Upon Installation	ADS
08/31/05	11:30	6	7.8	+8.1	Bailed Well	AMF
09/06/05	10:10	12	8.1	+7.8		RJC

McPHAIL ASSOCIATES, INC.

GROUNDWATER MONITORING REPORT

Well I.D.	B-222	Elevation Subtrahend	+18.3	Job. No. Job Name	4371 - SIMMONS COLLEGE SCHOOL OF MANAGEMENT	
Date	**Time**	**Elapsed Time**	**Depth of Water from R-Box Top**	**Elevation of Water**	**Remarks**	**Read By**
		Days	**Feet**	**Feet**		
08/29/05	10:00	0	9.0	+9.3	Upon Installation	AMF
08/31/05	11:00	2	8.8	+9.5	Bailed Well	AMF
09/06/05	10:20	8	8.9	+9.4		RJC

GROUNDWATER MONITORING REPORT

Well I.D.	B-230	Elevation Subtrahend	+16.5	Job. No. Job Name	4371 - SIMMONS COLLEGE SCHOOL OF MANAGEMENT	
Date	**Time**	**Elapsed Time**	**Depth of Water from R-Box Top**	**Elevation of Water**	**Remarks**	**Read By**
		Days	**Feet**	**Feet**		
08/24/05	15:00	0	10.0	+6.5	Upon Installation	AMF
08/31/05	11:15	7	9.0	+7.5	Bailed Well	AMF
09/06/05	10:35	13	9.3	+7.3		RJC

McPHAIL ASSOCIATES, INC.

Geotechnical Engineers

APPENDIX E

Chemical Test Results – Groundwater

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: McPhail Associates

Address: 30 Norfolk Street
Cambridge, MA 02139

Attn: Mr. Ambrose Donovan

Project Number: 4371.9.00

Site: SIMMONS COLLEGE GARAGE

Laboratory Job Number: L0510290

Date Received: 06-SEP-2005

Date Reported: 13-SEP-2005

Delivery Method: Alpha

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? YES

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.

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: Douglas Sheehy
Technical Director

ALPHA ANALYTICAL LABORATORIES

Laboratory Job Number: L0510290
Date Reported: 13-SEP-2005

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0510290-01	B-222 (OW) 9/6/05	BOSTON, MA

ALPHA ANALYTICAL LABORATORIES
NARRATIVE REPORT

Laboratory Job Number: L0510290

MCP Related Narratives:

Report Submission

In reference to question F:

At the client's request, all submitted samples were not analyzed for the full MCP list of compounds specified for the Method.

EPH

WG213118: Extraction Method 3510C

Volatile Organics

In reference to question E:

The WG213385-7,8 LCS,LCSD have low % recoveries for dichlorodifluoromethane, a difficult analyte.

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: L0510290-01
B-222 (OW) 9/6/05
Sample Matrix: WATER

Date Collected: 06-SEP-2005 00:00
Date Received : 06-SEP-2005
Date Reported : 13-SEP-2005

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 3-Amber,3-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Solids, Total Suspended	280	mg/l	25.	30	2540D		0905 15:45	DT
pH	6.8	SU	-	1	9040B		0906 23:30	DP
Oil & Grease, Hem-Grav	ND	mg/l	6.0	38	1664	0912 14:00	0913 08:20	AT
Total Metals by MCP 6000/7000 series								
Antimony, Total	0.0035	mg/l	0.0005	64	6020A	0908 18:50	0909 18:06	BM
Arsenic, Total	0.0106	mg/l	0.0005	64	6020A	0908 18:50	0909 18:06	BM
Beryllium, Total	ND	mg/l	0.0005	64	6020A	0908 18:50	0909 18:06	BM
Cadmium, Total	0.0009	mg/l	0.0005	64	6020A	0908 18:50	0909 18:06	BM
Chromium, Total	0.0181	mg/l	0.0005	64	6020A	0908 18:50	0909 18:06	BM
Copper, Total	0.0680	mg/l	0.0005	64	6020A	0908 18:50	0909 18:06	BM
Lead, Total	1.020	mg/l	0.0005	64	6020A	0908 18:50	0909 18:06	BM
Mercury, Total	0.0056	mg/l	0.0002	64	7470A	0908 18:00	0909 12:03	DM
Nickel, Total	0.0086	mg/l	0.0005	64	6020A	0908 18:50	0909 18:06	BM
Selenium, Total	0.002	mg/l	0.001	64	6020A	0908 18:50	0909 18:06	BM
Silver, Total	ND	mg/l	0.0005	64	6020A	0908 18:50	0909 18:06	BM
Thallium, Total	ND	mg/l	0.0005	64	6020A	0908 18:50	0909 18:06	BM
Zinc, Total	0.7845	mg/l	0.0050	64	6020A	0908 18:50	0909 18:06	BM
Dissolved Metals by MCP 6000/7000 series								
Antimony, Dissolved	0.0006	mg/l	0.0005	64	6020A	0908 18:50	0909 17:14	BM
Arsenic, Dissolved	0.0016	mg/l	0.0005	64	6020A	0908 18:50	0909 17:14	BM
Beryllium, Dissolved	ND	mg/l	0.0005	64	6020A	0908 18:50	0909 17:14	BM
Cadmium, Dissolved	ND	mg/l	0.0005	64	6020A	0908 18:50	0909 17:14	BM
Chromium, Dissolved	0.0007	mg/l	0.0005	64	6020A	0908 18:50	0909 17:14	BM
Copper, Dissolved	ND	mg/l	0.0005	64	6020A	0908 18:50	0909 17:14	BM
Lead, Dissolved	0.0008	mg/l	0.0005	64	6020A	0908 18:50	0909 17:14	BM
Mercury, Dissolved	ND	mg/l	0.0002	64	7470A	0908 18:00	0909 11:50	DM
Nickel, Dissolved	0.0019	mg/l	0.0005	64	6020A	0908 18:50	0909 17:14	BM
Selenium, Dissolved	0.002	mg/l	0.001	64	6020A	0908 18:50	0909 17:14	BM
Silver, Dissolved	ND	mg/l	0.0005	64	6020A	0908 18:50	0909 17:14	BM
Thallium, Dissolved	ND	mg/l	0.0005	64	6020A	0908 18:50	0909 17:14	BM
Zinc, Dissolved	0.0160	mg/l	0.0050	64	6020A	0908 18:50	0909 17:14	BM
Volatile Organics by MCP 8260B				60	8260B		0911 21:44	PD

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0510290-01
B-222 (OW) 9/6/05

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by MCP 8260B cont'd				60 8260B		0911 21:44	PD
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	1.0				
o-Xylene	ND	ug/l	1.0				
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	1.0				
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				

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0510290-01
B-222 (OW) 9/6/05

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by MCP 8260B cont'd				60 8260B		0911 21:44	PD
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	93.0	%	70-130				
Toluene-d8	107.	%	70-130				
4-Bromofluorobenzene	99.0	%	70-130				
Dibromofluoromethane	95.0	%	70-130				
Hydrocarbon Scan by GC 8100M				1 8100M	0907 12:00	0912 23:17	MS
Mineral Spirits	ND	mg/l	0.13				
Gasoline	ND	mg/l	0.13				
Fuel Oil #2/Diesel	ND	mg/l	0.13				
Fuel Oil #4	ND	mg/l	0.13				
Fuel Oil #6	ND	mg/l	0.13				
Motor Oil	ND	mg/l	0.13				
Kerosene	ND	mg/l	0.13				
Transformer Oil	ND	mg/l	0.13				
Unknown Hydrocarbon	0.34	mg/l	0.13				
Surrogate(s)	Recovery		QC Criteria				
o-Terphenyl	88.0	%	40-140				

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0510290-01
B-222 (OW) 9/6/05

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Extractable Petroleum Hydrocarbons				61 EPH-04-1	0907 15:45	0909 18:55	LT

Quality Control Information

Condition of sample received: Satisfactory
Aqueous preservative: Laboratory Provided Preserved Container
Sample temperature upon receipt: Received on Ice
Sample extraction method: Extracted Per the Method
Were all QA/QC procedures REQUIRED by the method followed? YES
Were all performance/acceptance standards for the required procedures achieved? YES
Were significant modifications made to the method as specified in Sect 11.3? NO
The normal acceptance range for the extraction surrogates, Chloro-octadecane and o-Terphenyl, is 40-140%.
The normal acceptance range for the fractionation surrogates, 2-Fluorobiphenyl and 2-Bromonaphthalene, is 40-140%.

C9-C18 Aliphatics	ND	ug/l	115.
C19-C36 Aliphatics	ND	ug/l	115.
C11-C22 Aromatics, Unadjusted	ND	ug/l	115.
C11-C22 Aromatics, Adjusted	ND	ug/l	115.

Surrogate(s)	Recovery		QC Criteria
Chloro-Octadecane	57.0	%	40-140
o-Terphenyl	67.0	%	40-140
2-Fluorobiphenyl	73.0	%	40-140
2-Bromonaphthalene	73.0	%	40-140

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

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS

Laboratory Job Number: L0510290

Parameter	Value 1	Value 2	Units	RPD	RPD Limits
Solids, Total Suspended for sample(s) 01 (L0510290-01, WG213221-2)					
Solids, Total Suspended	280	290	mg/l	4	32
pH for sample(s) 01 (L0510290-01, WG213036-2)					
pH	6.8	6.8	SU	0	
Oil & Grease, Hem-Grav for sample(s) 01 (L0510402-01, WG213648-4)					
Oil & Grease, Hem-Grav	ND	ND	mg/l	NC	

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0510290

Parameter	% Recovery	QC Criteria
pH LCS for sample(s) 01 (WG213036-1)		
pH	100	
Oil & Grease, Hem-Grav LCS for sample(s) 01 (WG213648-2)		
Oil & Grease, Hem-Grav	98	
Oil & Grease, Hem-Grav SPIKE for sample(s) 01 (L0510402-02, WG213648-3)		
Oil & Grease, Hem-Grav	91	

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH LCS/LCSD ANALYSIS

Laboratory Job Number: L0510290

Parameter	LCS %	LCSD %	RPD	RPD Limit	QC Limits
Total Metals by MCP 6000/7000 series for sample(s) 01 (WG213293-2, WG213293-3)					
Antimony, Total	94	96	2	20	80-120
Arsenic, Total	92	93	1	20	80-120
Beryllium, Total	97	99	2	20	80-120
Cadmium, Total	105	107	2	20	80-120
Chromium, Total	92	93	1	20	80-120
Copper, Total	98	100	2	20	80-120
Lead, Total	98	100	2	20	80-120
Nickel, Total	98	101	3	20	80-120
Selenium, Total	100	98	2	20	80-120
Silver, Total	99	101	2	20	80-120
Thallium, Total	93	94	1	20	80-120
Zinc, Total	100	104	4	20	80-120
Total Metals by MCP 6000/7000 series for sample(s) 01 (WG213340-2, WG213340-3)					
Mercury, Total	96	95	1	20	80-120
Dissolved Metals by MCP 6000/7000 series for sample(s) 01 (WG213290-2, WG213290-3)					
Antimony, Dissolved	98	97	1	20	80-120
Arsenic, Dissolved	95	94	1	20	80-120
Beryllium, Dissolved	100	93	7	20	80-120
Cadmium, Dissolved	108	108	0	20	80-120
Chromium, Dissolved	96	95	1	20	80-120
Copper, Dissolved	103	99	4	20	80-120
Lead, Dissolved	103	101	2	20	80-120
Nickel, Dissolved	104	101	3	20	80-120
Selenium, Dissolved	103	100	3	20	80-120
Silver, Dissolved	104	102	2	20	80-120
Thallium, Dissolved	97	96	1	20	80-120
Zinc, Dissolved	101	99	2	20	80-120
Dissolved Metals by MCP 6000/7000 series for sample(s) 01 (WG213339-2, WG213339-3)					
Mercury, Dissolved	95	94	1	20	80-120
Volatile Organics by MCP 8260B for sample(s) 01 (WG213385-7, WG213385-8)					
Methylene chloride	87	88	1	25	70-130
1,1-Dichloroethane	95	91	4	25	70-130
Chloroform	90	88	2	25	70-130
Carbon tetrachloride	96	94	2	25	70-130
1,2-Dichloropropane	94	92	2	25	70-130
Dibromochloromethane	99	100	1	25	70-130
1,1,2-Trichloroethane	96	98	2	25	70-130
Tetrachloroethene	98	97	1	25	70-130
Chlorobenzene	99	99	0	25	70-130
Trichlorofluoromethane	90	88	2	25	70-130
1,2-Dichloroethane	92	91	1	25	70-130
1,1,1-Trichloroethane	90	87	3	25	70-130
Bromodichloromethane	102	100	2	25	70-130
trans-1,3-Dichloropropene	84	87	4	25	70-130

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH LCS/LCSD ANALYSIS

Laboratory Job Number: L0510290

Continued

Parameter	LCS %	LCSD %	RPD	RPD Limit	QC Limits
Volatile Organics by MCP 8260B for sample(s) 01 (WG213385-7, WG213385-8)					
cis-1,3-Dichloropropene	86	86	0	25	70-130
1,1-Dichloropropene	92	91	1	25	70-130
Bromoform	103	102	1	50	70-130
1,1,2,2-Tetrachloroethane	92	98	6	25	70-130
Benzene	93	92	1	25	70-130
Toluene	99	98	1	25	70-130
Ethylbenzene	103	102	1	25	70-130
Chloromethane	75	75	0	50	70-130
Bromomethane	85	87	2	50	70-130
Vinyl chloride	85	81	5	25	70-130
Chloroethane	87	85	2	25	70-130
1,1-Dichloroethene	87	86	1	25	70-130
trans-1,2-Dichloroethene	94	88	7	25	70-130
Trichloroethene	89	89	0	25	70-130
1,2-Dichlorobenzene	99	99	0	25	70-130
1,3-Dichlorobenzene	103	101	2	25	70-130
1,4-Dichlorobenzene	102	98	4	25	70-130
Methyl tert butyl ether	74	81	9	25	70-130
p/m-Xylene	102	102	0	25	70-130
o-Xylene	103	103	0	25	70-130
cis-1,2-Dichloroethene	100	95	5	25	70-130
Dibromomethane	94	93	1	25	70-130
1,2,3-Trichloropropane	95	98	3	25	70-130
Styrene	104	103	1	25	70-130
Dichlorodifluoromethane	49	48	2	50	70-130
Acetone	77	79	3	50	70-130
Carbon disulfide	87	83	5	25	70-130
2-Butanone	81	88	8	50	70-130
4-Methyl-2-pentanone	78	85	9	50	70-130
2-Hexanone	76	85	11	50	70-130
Bromochloromethane	94	96	2	25	70-130
Tetrahydrofuran	76	76	0	25	70-130
2,2-Dichloropropane	100	98	2	25	70-130
1,2-Dibromoethane	90	92	2	25	70-130
1,3-Dichloropropane	95	97	2	25	70-130
1,1,1,2-Tetrachloroethane	98	96	2	25	70-130
Bromobenzene	102	101	1	25	70-130
n-Butylbenzene	105	99	6	25	70-130
sec-Butylbenzene	105	102	3	25	70-130
tert-Butylbenzene	105	102	3	25	70-130
o-Chlorotoluene	105	102	3	25	70-130
p-Chlorotoluene	104	100	4	25	70-130
1,2-Dibromo-3-chloropropane	98	103	5	50	70-130
Hexachlorobutadiene	101	98	3	25	70-130
Isopropylbenzene	98	100	2	25	70-130
p-Isopropyltoluene	105	102	3	25	70-130
Naphthalene	75	83	10	25	70-130

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH LCS/LCSD ANALYSIS

Laboratory Job Number: L0510290

Continued

Parameter	LCS %	LCSD %	RPD	RPD Limit	QC Limits
Volatile Organics by MCP 8260B for sample(s) 01 (WG213385-7, WG213385-8)					
n-Propylbenzene	107	103	4	25	70-130
1,2,3-Trichlorobenzene	83	88	6	25	70-130
1,2,4-Trichlorobenzene	84	87	4	25	70-130
1,3,5-Trimethylbenzene	105	102	3	25	70-130
1,2,4-Trimethylbenzene	106	104	2	25	70-130
Ethyl ether	77	84	9	25	70-130
Isopropyl Ether	78	80	3	25	70-130
Ethyl-Tert-Butyl-Ether	78	85	9	25	70-130
Tertiary-Amyl Methyl Ether	70	76	8	25	70-130
1,4-Dioxane	98	111	12	50	70-130
Surrogate(s)					
1,2-Dichloroethane-d4	106	104	2		70-130
Toluene-d8	106	109	3		70-130
4-Bromofluorobenzene	96	97	1		70-130
Dibromofluoromethane	104	104	0		70-130
Hydrocarbon Scan by GC 8100M for sample(s) 01 (WG213102-2, WG213102-3)					
Petroleum Spike	91	89	2		40-140
Surrogate(s)					
o-Terphenyl	92	91	1		40-140
Extractable Petroleum Hydrocarbons for sample(s) 01 (WG213118-2, WG213118-3)					
C9-C18 Aliphatics	66	54	20	25	40-140
C19-C36 Aliphatics	75	61	21	25	40-140
C11-C22 Aromatics	72	60	18	25	40-140
Naphthalene	64	50	25	25	40-140
2-Methylnaphthalene	62	50	21	25	40-140
Acenaphthylene	64	52	21	25	40-140
Acenaphthene	65	53	20	25	40-140
Fluorene	66	53	22	25	40-140
Phenanthrene	69	57	19	25	40-140
Anthracene	71	59	18	25	40-140
Fluoranthene	71	59	18	25	40-140
Pyrene	71	60	17	25	40-140
Benzo(a)anthracene	71	59	18	25	40-140
Chrysene	78	64	20	25	40-140
Benzo(b)fluoranthene	68	55	21	25	40-140
Benzo(k)fluoranthene	67	55	20	25	40-140
Benzo(a)pyrene	69	57	19	25	40-140
Indeno(1,2,3-cd)Pyrene	69	54	24	25	40-140
Dibenzo(a,h)anthracene	71	56	24	25	40-140
Benzo(ghi)perylene	74	58	24	25	40-140
Nonane (C9)	52	41	24	25	30-140
Decane (C10)	62	51	19	25	30-140
Dodecane (C12)	71	59	18	25	30-140

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH LCS/LCSD ANALYSIS

Laboratory Job Number: L0510290

Continued

Parameter	LCS %	LCSD %	RPD	RPD Limit	QC Limits
Extractable Petroleum Hydrocarbons for sample(s) 01 (WG213118-2, WG213118-3)					
Tetradecane (C14)	68	56	19	25	40-140
Hexadecane (C16)	70	58	19	25	40-140
Octadecane (C18)	71	58	20	25	40-140
Nonadecane (C19)	72	59	20	25	40-140
Eicosane (C20)	74	60	21	25	40-140
Docosane (C22)	76	62	20	25	40-140
Tetracosane (C24)	82	66	22	25	40-140
Hexacosane (C26)	78	64	20	25	40-140
Octacosane (C28)	79	64	21	25	40-140
Triacontane (C30)	78	64	20	25	40-140
Hexatriacontane (C36)	74	60	21	25	40-140
Surrogate(s)					
Chloro-Octadecane	63	47	29		40-140
o-Terphenyl	86	72	18		40-140
2-Fluorobiphenyl	73	71	3		40-140
2-Bromonaphthalene	73	71	3		40-140
% Naphthalene Breakthrough	0	0	NC		
% 2-Methylnaphthalene Breakthrough	0	0	NC		

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0510290

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01 (WG213221-1)								
Solids, Total Suspended	ND	mg/l	5.0	30	2540D		0905 15:45	DT
Blank Analysis for sample(s) 01 (WG213648-1)								
Oil & Grease, Hem-Grav	ND	mg/l	4.0	38	1664	0912 14:00	0913 08:20	AT
Blank Analysis for sample(s) 01 (WG213293-1)								
Total Metals by MCP 6000/7000 series								
Antimony, Total	ND	mg/l	0.0005	64	6020A	0908 18:50	0909 17:30	BM
Arsenic, Total	ND	mg/l	0.0005	64	6020A	0908 18:50	0909 17:30	BM
Beryllium, Total	ND	mg/l	0.0005	64	6020A	0908 18:50	0909 17:30	BM
Cadmium, Total	ND	mg/l	0.0005	64	6020A	0908 18:50	0909 17:30	BM
Chromium, Total	ND	mg/l	0.0005	64	6020A	0908 18:50	0909 17:30	BM
Copper, Total	ND	mg/l	0.0005	64	6020A	0908 18:50	0909 17:30	BM
Lead, Total	ND	mg/l	0.0005	64	6020A	0908 18:50	0909 17:30	BM
Nickel, Total	ND	mg/l	0.0005	64	6020A	0908 18:50	0909 17:30	BM
Selenium, Total	ND	mg/l	0.001	64	6020A	0908 18:50	0909 17:30	BM
Silver, Total	ND	mg/l	0.0005	64	6020A	0908 18:50	0909 17:30	BM
Thallium, Total	ND	mg/l	0.0005	64	6020A	0908 18:50	0909 17:30	BM
Zinc, Total	ND	mg/l	0.0050	64	6020A	0908 18:50	0909 17:30	BM
Blank Analysis for sample(s) 01 (WG213340-1)								
Total Metals by MCP 6000/7000 series								
Mercury, Total	ND	mg/l	0.0002	64	7470A	0908 18:00	0909 11:56	DM
Blank Analysis for sample(s) 01 (WG213290-1)								
Dissolved Metals by MCP 6000/7000 series								
Antimony, Dissolved	ND	mg/l	0.0005	64	6020A	0908 18:50	0909 16:37	BM
Arsenic, Dissolved	ND	mg/l	0.0005	64	6020A	0908 18:50	0909 16:37	BM
Beryllium, Dissolved	ND	mg/l	0.0005	64	6020A	0908 18:50	0909 16:37	BM
Cadmium, Dissolved	ND	mg/l	0.0005	64	6020A	0908 18:50	0909 16:37	BM
Chromium, Dissolved	ND	mg/l	0.0005	64	6020A	0908 18:50	0909 16:37	BM
Copper, Dissolved	ND	mg/l	0.0005	64	6020A	0908 18:50	0909 16:37	BM
Lead, Dissolved	ND	mg/l	0.0005	64	6020A	0908 18:50	0909 16:37	BM
Nickel, Dissolved	ND	mg/l	0.0005	64	6020A	0908 18:50	0909 16:37	BM
Selenium, Dissolved	ND	mg/l	0.001	64	6020A	0908 18:50	0909 16:37	BM
Silver, Dissolved	ND	mg/l	0.0005	64	6020A	0908 18:50	0909 16:37	BM
Thallium, Dissolved	ND	mg/l	0.0005	64	6020A	0908 18:50	0909 16:37	BM
Zinc, Dissolved	ND	mg/l	0.0050	64	6020A	0908 18:50	0909 16:37	BM

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0510290

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01 (WG213339-1)							
Dissolved Metals by MCP 6000/7000 series							
Mercury, Dissolved	ND	mg/l	0.0002	64 7470A	0908 18:00	0909 11:34	DM
Blank Analysis for sample(s) 01 (WG213385-9)							
Volatile Organics by MCP 8260B				60 8260B		0911 12:25	PD
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	1.0				
o-Xylene	ND	ug/l	1.0				
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	1.0				
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: L0510290

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01 (WG213385-9)							
Volatile Organics by MCP 8260B cont'd				60 8260B		0911 12:25	PD
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	96.0	%	70-130				
Toluene-d8	107.	%	70-130				
4-Bromofluorobenzene	105.	%	70-130				
Dibromofluoromethane	96.0	%	70-130				
Blank Analysis for sample(s) 01 (WG213102-1)							
Hydrocarbon Scan by GC 8100M				1 8100M	0907 12:00	0912 20:07	MS
Mineral Spirits	ND	mg/l	0.10				
Gasoline	ND	mg/l	0.10				
Fuel Oil #2/Diesel	ND	mg/l	0.10				
Fuel Oil #4	ND	mg/l	0.10				
Fuel Oil #6	ND	mg/l	0.10				
Motor Oil	ND	mg/l	0.10				
Kerosene	ND	mg/l	0.10				

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0510290

Continued

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01 (WG213102-1)								
Hydrocarbon Scan by GC 8100M cont'd				1	8100M	0907 12:00	0912 20:07	MS
Transformer Oil	ND	mg/l	0.10					
Unknown Hydrocarbon	ND	mg/l	0.10					
Surrogate(s)	Recovery		QC Criteria					
o-Terphenyl	95.0	%	40-140					
Blank Analysis for sample(s) 01 (WG213118-1)								
Extractable Petroleum Hydrocarbons				61	EPH-04-1	0907 15:45	0909 18:24	LT
C9-C18 Aliphatics	ND	ug/l	100.					
C19-C36 Aliphatics	ND	ug/l	100.					
C11-C22 Aromatics, Unadjusted	ND	ug/l	100.					
C11-C22 Aromatics, Adjusted	ND	ug/l	100.					
Surrogate(s)	Recovery		QC Criteria					
Chloro-Octadecane	63.0	%	40-140					
o-Terphenyl	63.0	%	40-140					
2-Fluorobiphenyl	74.0	%	40-140					
2-Bromonaphthalene	72.0	%	40-140					

REFERENCES

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

30. Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

38. N-Hexane Extractable Material (HEM) and Silica Gel Treated N-Hexane Extractable Material (SGT-HEM) by Extraction and Gravimetry (Oil and Grease and Total Petroleum Hydrocarbons), EPA-821-B-94-004, October 1994.

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.

61. Method for the Determination of Extractable Petroleum Hydrocarbons (EPH). Massachusetts Department of Environmental Protection, DEA/ORS/BWSC. May 2004, Revision 1.1.

64. 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). August 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: L0510290

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
L0510290-01A	Vial HCl preserved	A	N/A	1.4 C	Y	Absent	MCP-8260-04
L0510290-01B	Vial HCl preserved	A	N/A	1.4 C	Y	Absent	MCP-8260-04
L0510290-01C	Plastic 500ml HNO3 preserved	A	<2	1.4 C	Y	Absent	MCP-7470T, MCP-AG-6020T, MCP-AS-6020T, MCP-BE-6020T, MCP-CD-6020T, MCP-CR-6020T, MCP-CU-6020T, MCP-NI-6020T, MCP-PB-6020T, MCP-SB-6020T, MCP-SE-6020T, MCP-TL-6020T, MCP-ZN-6020T, PREPT
L0510290-01D	Plastic 1000ml unpreserved	A	=7	1.4 C	Y	Absent	PH-9040, TSS-2540
L0510290-01E	Plastic 500ml unpreserved	A	=7	1.4 C	Y	Absent	PREPS
L0510290-01F	Plastic 500ml HNO3 preserved spl	A	<2	1.4 C	Y	Absent	MCP-7470S, MCP-AG-6020S, MCP-AS-6020S, MCP-BE-6020S, MCP-CD-6020S, MCP-CR-6020S, MCP-CU-6020S, MCP-NI-6020S, MCP-PB-6020S, MCP-SB-6020S, MCP-SE-6020S, MCP-TL-6020S, MCP-ZN-6020S
L0510290-01G	Amber 1000ml unpreserved	A	=7	1.4 C	Y	Absent	TPH-8100
L0510290-01H	Amber 1000ml HCl preserved	A	<2	1.4 C	Y	Absent	EPH-04
L0510290-01I	Amber 1000ml HCl preserved	A	<2	1.4 C	Y	Absent	OG-1664

Container Comments

Container ID	Comments

CHAIN OF CUSTODY

PAGE ____ OF ____

Date Rec'd in Lab: 9/6

ALPHA Job #: L0510290

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

Client Information

Client: McPHAIL
Address: 30 NORFOLK ST
CAMBRIDGE, MA
Phone: 617 868-1420
Fax: " " 1423
Email:

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: SIMMONS College
Project Location: BOSTON MA
Project #: 4371.9.00
Project Manager:
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due: 9/13 Time:

Report Information - Data Deliverables

☐ FAX ☐ EMAIL
☐ ADEx ☐ Add'l Deliverables

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program | Criteria

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?

Other Project Specific Requirements/Comments/Detection Limits:

SAMPLE HANDLING

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

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TPH (GC/FID)	TOT Oil & Grease	VOC 8260	TOT RCB Metals	Dissolved RCB Metals	pH	TSS	EPH					Sample Specific Comments	TOTAL # BOTTLES
10290-1	B-222 (OW) 9/6/05					X	X	X	X	X	X	X	X					3-AMBER 3-PLASTIC 2-VIALS	8

Container Type	A	A	W	P	T	P	P	A
Preservative	A	B	B	C	A	A	A	B

QUESTIONS ABOVE MUST BE ANSWERED FOR PRESUMPTIVE CERTAINTY

IS YOUR PROJECT MCP ?

Relinquished By:	Date/Time	Received By:	Date/Time
[illegible]	9/6/05 1920	[illegible]	9/6/05 1920
[illegible]	9/6	[illegible]	9/6

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.

FORM NO: 01-01

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: Woodard & Curran

Address: 35 New England Business Center Drive
Suite 180
Andover, MA 01810

Attn: Mr. Dave MacDonald

Project Number: 205982

Site: SIMMONS COLLEGE

Laboratory Job Number: L0204410

Invoice Number: 63310

Date Received: 06-MAY-02

Date Reported: 13-MAY-02

Delivery Method: Alpha

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0204410-01	MW01	300 FENWAY, BOSTON
~~L0204410-02~~	~~MW05~~	~~300 FENWAY, BOSTON~~
L0204410-03	MW07	300 FENWAY, BOSTON
~~L0204410-04~~	~~MW03~~	~~300 FENWAY, BOSTON~~
L0204410-05	MW02	300 FENWAY, BOSTON
L0204410-06	MW06	300 FENWAY, BOSTON
~~L0204410-07~~	~~MW15~~	~~300 FENWAY, BOSTON~~
~~L0204410-08~~	~~MW04~~	~~300 FENWAY, BOSTON~~
~~L0204410-09~~	~~MW50~~	~~300 FENWAY, BOSTON~~
L0204410-10	TRIP	300 FENWAY, BOSTON

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: L0204410

Alpha Report L0204410:

Volatile Organics

Alpha Sample(s) L0204410-04 required analysis on dilution due to the presence of target compounds.

EPH

Alpha Sample L0204410-07 shows the fractionation surrogate percent recoveries for 2-Bromonaphthalene to be below the acceptance criteria required for the method. The sample is being re-extracted for confirmation.

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L0204410-01
MW01
Sample Matrix: WATER

Date Collected: 03-MAY-2002 13:55
Date Received : 06-MAY-2002
Date Reported : 13-MAY-2002

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1-Amber,1-Plastic,4-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Total Metals				1	3015			
Arsenic, Total	ND	mg/l	0.005	1	6010B	0507 10:00	0508 10:31	RW
Barium, Total	0.95	mg/l	0.01	1	6010B	0507 10:00	0508 10:31	RW
Cadmium, Total	ND	mg/l	0.005	1	6010B	0507 10:00	0508 10:31	RW
Chromium, Total	ND	mg/l	0.01	1	6010B	0507 10:00	0508 10:31	RW
Lead, Total	ND	mg/l	0.050	1	6010B	0507 10:00	0508 10:31	RW
Mercury, Total	ND	mg/l	0.0005	1	7470A	0510 10:50	0510 18:47	AG
Selenium, Total	ND	mg/l	0.010	1	6010B	0507 10:00	0508 10:31	RW
Silver, Total	ND	mg/l	0.007	1	6010B	0507 10:00	0508 10:31	RW
Volatile Organics by GC/MS 8260				1	8260B		0510 18:25	RY
Methylene chloride	ND	ug/l	5.0					
1,1-Dichloroethane	ND	ug/l	0.75					
Chloroform	ND	ug/l	0.75					
Carbon tetrachloride	ND	ug/l	0.50					
1,2-Dichloropropane	ND	ug/l	1.8					
Dibromochloromethane	ND	ug/l	0.50					
1,1,2-Trichloroethane	ND	ug/l	0.75					
Tetrachloroethene	ND	ug/l	0.50					
Chlorobenzene	ND	ug/l	0.50					
Trichlorofluoromethane	ND	ug/l	2.5					
1,2-Dichloroethane	ND	ug/l	0.50					
1,1,1-Trichloroethane	ND	ug/l	0.50					
Bromodichloromethane	ND	ug/l	0.50					
trans-1,3-Dichloropropene	ND	ug/l	0.50					
cis-1,3-Dichloropropene	ND	ug/l	0.50					
1,1-Dichloropropene	ND	ug/l	2.5					
Bromoform	ND	ug/l	0.50					
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					

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0204410-01
MW01

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 continued				1 8260B		0510 18:25	RY
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	2.8	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				
1,4-Dichlorobutane	ND	ug/l	5.0				
Iodomethane	ND	ug/l	5.0				
1,2,3-Trichloropropane	ND	ug/l	5.0				
Styrene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
Acetone	ND	ug/l	5.0				
Carbon disulfide	ND	ug/l	5.0				
2-Butanone	ND	ug/l	5.0				
Vinyl acetate	ND	ug/l	5.0				
4-Methyl-2-pentanone	ND	ug/l	5.0				
2-Hexanone	ND	ug/l	5.0				
Ethyl methacrylate	ND	ug/l	5.0				
Acrolein	ND	ug/l	12.				
Acrylonitrile	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	2.5				
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	2.5				
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				
trans-1,4-Dichloro-2-butene	ND	ug/l	2.5				
Ethyl ether	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: L0204410-01
MW01

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 continued				1 8260B		0510 18:25	RY
Surrogate Recovery							
1,2-Dichloroethane-d4	102.	%					
Toluene-d8	101.	%					
4-Bromofluorobenzene	107.	%					
Dibromofluoromethane	100.	%					

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0204410-01
MW01

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Volatile Petroleum Hydrocarbons				47 98-1		0509 12:31	MM

Quality Control Information

Condition of sample received: Satisfactory
Aqueous preservative: Laboratory Provided Preserved Container
Sample temperature upon receipt: Received on Ice
Were all QA/QC procedures REQUIRED by the method followed? YES
Were all performance/acceptance standards for the required procedures achieved? YES
Were significant modifications made to the method as specified in Sect 11.3? NO
Please note to subtract the method blank from the stated result.
VPH Standard analysis reports only range data with no adjustments.
The normal acceptance range for the surrogate, 2,5-Dibromotoluene, is 70-130%.

C5-C8 Aliphatics, Unadjusted	ND	ug/l	40.0
C9-C12 Aliphatics, Unadjusted	ND	ug/l	40.0
C9-C10 Aromatics, Unadjusted	ND	ug/l	40.0

Surrogate Recovery

2,5-Dibromotoluene-PID	119.	%
2,5-Dibromotoluene-FID	104.	%

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0204410-01
MW01

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Extractable Petroleum Hydrocarbons				46 98-1	0507 15:30	0511 08:58	PD

Quality Control Information

Condition of sample received: Satisfactory
Aqueous preservative: Laboratory Provided Preserved Container
Sample temperature upon receipt: Received on Ice
Sample extraction method: Extracted Per the Method
Were all QA/QC procedures REQUIRED by the method followed? YES
Were all performance/acceptance standards for the required procedures achieved? YES
Were significant modifications made to the method as specified in Sect 11.3? NO
Please note to subtract the method blank from the stated result.
The normal acceptance range for the extraction surrogates, Chloro-octadecane and o-Terphenyl, is 40-140%.
The normal acceptance range for the fractionation surrogates, 2-Fluorobiphenyl and 2-Bromonaphthalene, is 40-140%.

C9-C18 Aliphatics, Unadjusted	ND	ug/l	104.
C19-C36 Aliphatics, Unadjusted	ND	ug/l	104.
C11-C22 Aromatics, Unadjusted	ND	ug/l	104.
C11-C22 Aromatics, Adjusted	ND	ug/l	104.
Naphthalene	ND	ug/l	20.8
2-Methylnaphthalene	ND	ug/l	20.8
Acenaphthylene	ND	ug/l	20.8
Acenaphthene	ND	ug/l	20.8
Fluorene	ND	ug/l	20.8
Phenanthrene	ND	ug/l	20.8
Anthracene	ND	ug/l	20.8
Fluoranthene	ND	ug/l	20.8
Pyrene	ND	ug/l	20.8
Benzo(a)anthracene	ND	ug/l	20.8
Chrysene	ND	ug/l	20.8
Benzo(b)fluoranthene	ND	ug/l	20.8
Benzo(k)fluoranthene	ND	ug/l	20.8
Benzo(a)pyrene	ND	ug/l	20.8
Indeno(1,2,3-cd)Pyrene	ND	ug/l	20.8
Dibenzo(a,h)anthracene	ND	ug/l	20.8
Benzo(g,h,i)perylene	ND	ug/l	20.8

Surrogate Recovery

Chloro-Octadecane	72.0	%
o-Terphenyl	75.0	%
2-Fluorobiphenyl	90.0	%
2-Bromonaphthalene	59.0	%

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L0204410-03
MW07
Sample Matrix: WATER

Date Collected: 03-MAY-2002 15:30
Date Received : 06-MAY-2002
Date Reported : 13-MAY-2002

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1-Amber,1-Plastic

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Total Metals				1	3015			
Arsenic, Total	ND	mg/l	0.005	1	6010B	0507 10:00	0508 10:51	RW
Barium, Total	0.24	mg/l	0.01	1	6010B	0507 10:00	0508 10:51	RW
Cadmium, Total	ND	mg/l	0.005	1	6010B	0507 10:00	0508 10:51	RW
Chromium, Total	ND	mg/l	0.01	1	6010B	0507 10:00	0508 10:51	RW
Lead, Total	ND	mg/l	0.050	1	6010B	0507 10:00	0508 10:51	RW
Mercury, Total	ND	mg/l	0.0005	1	7470A	0510 10:50	0510 18:57	AG
Selenium, Total	ND	mg/l	0.010	1	6010B	0507 10:00	0508 10:51	RW
Silver, Total	ND	mg/l	0.007	1	6010B	0507 10:00	0508 10:51	RW

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0204410-03
MW07

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Extractable Petroleum Hydrocarbons				46 98-1	0507 15:30	0511 10:30	PD

Quality Control Information

Condition of sample received: Satisfactory
Aqueous preservative: Laboratory Provided Preserved Container
Sample temperature upon receipt: Received on Ice
Sample extraction method: Extracted Per the Method
Were all QA/QC procedures REQUIRED by the method followed? YES
Were all performance/acceptance standards for the required procedures achieved? YES
Were significant modifications made to the method as specified in Sect 11.3? NO
Please note to subtract the method blank from the stated result.
The normal acceptance range for the extraction surrogates, Chloro-octadecane and o-Terphenyl, is 40-140%.
The normal acceptance range for the fractionation surrogates, 2-Fluorobiphenyl and 2-Bromonaphthalene, is 40-140%.

C9-C18 Aliphatics, Unadjusted	ND	ug/l	104.
C19-C36 Aliphatics, Unadjusted	ND	ug/l	104.
C11-C22 Aromatics, Unadjusted	ND	ug/l	104.
C11-C22 Aromatics, Adjusted	ND	ug/l	104.
Naphthalene	ND	ug/l	20.8
2-Methylnaphthalene	ND	ug/l	20.8
Acenaphthylene	ND	ug/l	20.8
Acenaphthene	ND	ug/l	20.8
Fluorene	ND	ug/l	20.8
Phenanthrene	ND	ug/l	20.8
Anthracene	ND	ug/l	20.8
Fluoranthene	ND	ug/l	20.8
Pyrene	ND	ug/l	20.8
Benzo(a)anthracene	ND	ug/l	20.8
Chrysene	ND	ug/l	20.8
Benzo(b)fluoranthene	ND	ug/l	20.8
Benzo(k)fluoranthene	ND	ug/l	20.8
Benzo(a)pyrene	ND	ug/l	20.8
Indeno(1,2,3-cd)Pyrene	ND	ug/l	20.8
Dibenzo(a,h)anthracene	ND	ug/l	20.8
Benzo(g,h,i)perylene	ND	ug/l	20.8

Surrogate Recovery

Chloro-Octadecane	85.0	%
o-Terphenyl	82.0	%
2-Fluorobiphenyl	89.0	%
2-Bromonaphthalene	62.0	%

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L0204410-05
MW02
Sample Matrix: WATER

Date Collected: 03-MAY-2002 10:20
Date Received : 06-MAY-2002
Date Reported : 13-MAY-2002

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1-Amber,1-Plastic,4-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Total Metals				1	3015			
Arsenic, Total	ND	mg/l	0.005	1	6010B	0507 10:00	0508 11:28	RW
Barium, Total	1.0	mg/l	0.01	1	6010B	0507 10:00	0508 11:28	RW
Cadmium, Total	ND	mg/l	0.005	1	6010B	0507 10:00	0508 11:28	RW
Chromium, Total	ND	mg/l	0.01	1	6010B	0507 10:00	0508 11:28	RW
Lead, Total	ND	mg/l	0.050	1	6010B	0507 10:00	0508 11:28	RW
Mercury, Total	ND	mg/l	0.0005	1	7470A	0510 10:50	0510 19:00	AG
Selenium, Total	ND	mg/l	0.010	1	6010B	0507 10:00	0508 11:28	RW
Silver, Total	ND	mg/l	0.007	1	6010B	0507 10:00	0508 11:28	RW
Volatile Organics by GC/MS 8260				1	8260B		0510 19:35	RY
Methylene chloride	ND	ug/l	5.0					
1,1-Dichloroethane	ND	ug/l	0.75					
Chloroform	ND	ug/l	0.75					
Carbon tetrachloride	ND	ug/l	0.50					
1,2-Dichloropropane	ND	ug/l	1.8					
Dibromochloromethane	ND	ug/l	0.50					
1,1,2-Trichloroethane	ND	ug/l	0.75					
Tetrachloroethene	ND	ug/l	0.50					
Chlorobenzene	ND	ug/l	0.50					
Trichlorofluoromethane	ND	ug/l	2.5					
1,2-Dichloroethane	ND	ug/l	0.50					
1,1,1-Trichloroethane	ND	ug/l	0.50					
Bromodichloromethane	ND	ug/l	0.50					
trans-1,3-Dichloropropene	ND	ug/l	0.50					
cis-1,3-Dichloropropene	ND	ug/l	0.50					
1,1-Dichloropropene	ND	ug/l	2.5					
Bromoform	ND	ug/l	0.50					
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					

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0204410-05
MW02

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 continued				1 8260B		0510 19:35	RY
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				
1,4-Dichlorobutane	ND	ug/l	5.0				
Iodomethane	ND	ug/l	5.0				
1,2,3-Trichloropropane	ND	ug/l	5.0				
Styrene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
Acetone	ND	ug/l	5.0				
Carbon disulfide	ND	ug/l	5.0				
2-Butanone	ND	ug/l	5.0				
Vinyl acetate	ND	ug/l	5.0				
4-Methyl-2-pentanone	ND	ug/l	5.0				
2-Hexanone	ND	ug/l	5.0				
Ethyl methacrylate	ND	ug/l	5.0				
Acrolein	ND	ug/l	12.				
Acrylonitrile	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	2.5				
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	2.5				
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				
trans-1,4-Dichloro-2-butene	ND	ug/l	2.5				
Ethyl ether	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: L0204410-05
MW02

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 continued				1 8260B		0510 19:35	RY
Surrogate Recovery							
1,2-Dichloroethane-d4	113.	%					
Toluene-d8	101.	%					
4-Bromofluorobenzene	109.	%					
Dibromofluoromethane	104.	%					

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0204410-05
MW02

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Volatile Petroleum Hydrocarbons				47 98-1		0510 00:07	MM

Quality Control Information

Condition of sample received: Satisfactory
Aqueous preservative: Laboratory Provided Preserved Container
Sample temperature upon receipt: Received on Ice
Were all QA/QC procedures REQUIRED by the method followed? YES
Were all performance/acceptance standards for the required procedures achieved? YES
Were significant modifications made to the method as specified in Sect 11.3? NO
Please note to subtract the method blank from the stated result.
VPH Standard analysis reports only range data with no adjustments.
The normal acceptance range for the surrogate, 2,5-Dibromotoluene, is 70-130%.

C5-C8 Aliphatics, Unadjusted	ND	ug/l	40.0
C9-C12 Aliphatics, Unadjusted	ND	ug/l	40.0
C9-C10 Aromatics, Unadjusted	ND	ug/l	40.0

Surrogate Recovery

2,5-Dibromotoluene-PID	114.	%
2,5-Dibromotoluene-FID	103.	%

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0204410-05
MW02

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Extractable Petroleum Hydrocarbons				46 98-1	05 07 15:30	05 11 12:01	PD

Quality Control Information

Condition of sample received: Satisfactory
Aqueous preservative: Laboratory Provided Preserved Container
Sample temperature upon receipt: Received on Ice
Sample extraction method: Extracted Per the Method
Were all QA/QC procedures REQUIRED by the method followed? YES
Were all performance/acceptance standards for the required procedures achieved? YES
Were significant modifications made to the method as specified in Sect 11.3? NO
Please note to subtract the method blank from the stated result.
The normal acceptance range for the extraction surrogates, Chloro-octadecane and o-Terphenyl, is 40-140%.
The normal acceptance range for the fractionation surrogates, 2-Fluorobiphenyl and 2-Bromonaphthalene, is 40-140%.

C9-C18 Aliphatics, Unadjusted	ND	ug/l	104.
C19-C36 Aliphatics, Unadjusted	ND	ug/l	104.
C11-C22 Aromatics, Unadjusted	ND	ug/l	104.
C11-C22 Aromatics, Adjusted	ND	ug/l	104.
Naphthalene	ND	ug/l	20.8
2-Methylnaphthalene	ND	ug/l	20.8
Acenaphthylene	ND	ug/l	20.8
Acenaphthene	ND	ug/l	20.8
Fluorene	ND	ug/l	20.8
Phenanthrene	ND	ug/l	20.8
Anthracene	ND	ug/l	20.8
Fluoranthene	ND	ug/l	20.8
Pyrene	ND	ug/l	20.8
Benzo(a)anthracene	ND	ug/l	20.8
Chrysene	ND	ug/l	20.8
Benzo(b)fluoranthene	ND	ug/l	20.8
Benzo(k)fluoranthene	ND	ug/l	20.8
Benzo(a)pyrene	ND	ug/l	20.8
Indeno(1,2,3-cd)Pyrene	ND	ug/l	20.8
Dibenzo(a,h)anthracene	ND	ug/l	20.8
Benzo(g,h,i)perylene	ND	ug/l	20.8

Surrogate Recovery

Chloro-Octadecane	83.0	%
o-Terphenyl	85.0	%
2-Fluorobiphenyl	96.0	%
2-Bromonaphthalene	69.0	%

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L0204410-06
MW06
Sample Matrix: WATER

Date Collected: 03-MAY-2002 14:45
Date Received : 06-MAY-2002
Date Reported : 13-MAY-2002

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1-Amber,1-Plastic,4-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Total Metals				1	3015			
Arsenic, Total	ND	mg/l	0.005	1	6010B	0507 10:00	0508 11:33	RW
Barium, Total	0.54	mg/l	0.01	1	6010B	0507 10:00	0508 11:33	RW
Cadmium, Total	ND	mg/l	0.005	1	6010B	0507 10:00	0508 11:33	RW
Chromium, Total	ND	mg/l	0.01	1	6010B	0507 10:00	0508 11:33	RW
Lead, Total	ND	mg/l	0.050	1	6010B	0507 10:00	0508 11:33	RW
Mercury, Total	ND	mg/l	0.0005	1	7470A	0510 10:50	0510 19:02	AG
Selenium, Total	ND	mg/l	0.010	1	6010B	0507 10:00	0508 11:33	RW
Silver, Total	ND	mg/l	0.007	1	6010B	0507 10:00	0508 11:33	RW
Volatile Organics by GC/MS 8260				1	8260B		0510 20:11	RY
Methylene chloride	ND	ug/l	5.0					
1,1-Dichloroethane	ND	ug/l	0.75					
Chloroform	ND	ug/l	0.75					
Carbon tetrachloride	ND	ug/l	0.50					
1,2-Dichloropropane	ND	ug/l	1.8					
Dibromochloromethane	ND	ug/l	0.50					
1,1,2-Trichloroethane	ND	ug/l	0.75					
Tetrachloroethene	ND	ug/l	0.50					
Chlorobenzene	ND	ug/l	0.50					
Trichlorofluoromethane	ND	ug/l	2.5					
1,2-Dichloroethane	ND	ug/l	0.50					
1,1,1-Trichloroethane	ND	ug/l	0.50					
Bromodichloromethane	ND	ug/l	0.50					
trans-1,3-Dichloropropene	ND	ug/l	0.50					
cis-1,3-Dichloropropene	ND	ug/l	0.50					
1,1-Dichloropropene	ND	ug/l	2.5					
Bromoform	ND	ug/l	0.50					
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					

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0204410-06
MW06

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 continued				1 8260B		0510 20:11	RY
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				
1,4-Dichlorobutane	ND	ug/l	5.0				
Iodomethane	ND	ug/l	5.0				
1,2,3-Trichloropropane	ND	ug/l	5.0				
Styrene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
Acetone	ND	ug/l	5.0				
Carbon disulfide	ND	ug/l	5.0				
2-Butanone	ND	ug/l	5.0				
Vinyl acetate	ND	ug/l	5.0				
4-Methyl-2-pentanone	ND	ug/l	5.0				
2-Hexanone	ND	ug/l	5.0				
Ethyl methacrylate	ND	ug/l	5.0				
Acrolein	ND	ug/l	12.				
Acrylonitrile	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	2.5				
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	2.5				
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				
trans-1,4-Dichloro-2-butene	ND	ug/l	2.5				
Ethyl ether	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: L0204410-06
MW06

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 continued				1 8260B		0510 20:11	RY
Surrogate Recovery							
1,2-Dichloroethane-d4	107.	%					
Toluene-d8	100.	%					
4-Bromofluorobenzene	103.	%					
Dibromofluoromethane	102.	%					

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0204410-06
MW06

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Volatile Petroleum Hydrocarbons				47 98-1		0510 00:58	MM

Quality Control Information

Condition of sample received: Satisfactory
Aqueous preservative: Laboratory Provided Preserved Container
Sample temperature upon receipt: Received on Ice
Were all QA/QC procedures REQUIRED by the method followed? YES
Were all performance/acceptance standards for the required procedures achieved? YES
Were significant modifications made to the method as specified in Sect 11.3? NO
Please note to subtract the method blank from the stated result.
VPH Standard analysis reports only range data with no adjustments.
The normal acceptance range for the surrogate, 2,5-Dibromotoluene, is 70-130%.

C5-C8 Aliphatics, Unadjusted	ND	ug/l	40.0
C9-C12 Aliphatics, Unadjusted	ND	ug/l	40.0
C9-C10 Aromatics, Unadjusted	ND	ug/l	40.0

Surrogate Recovery

2,5-Dibromotoluene-PID	117.	%
2,5-Dibromotoluene-FID	104.	%

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0204410-06
MW06

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Extractable Petroleum Hydrocarbons				46 98-1	0507 15:30	0511 12:47	PD

Quality Control Information

Condition of sample received:	Satisfactory
Aqueous preservative:	Laboratory Provided Preserved Container
Sample temperature upon receipt:	Received on Ice
Sample extraction method:	Extracted Per the Method
Were all QA/QC procedures REQUIRED by the method followed?	YES
Were all performance/acceptance standards for the required procedures achieved?	YES
Were significant modifications made to the method as specified in Sect 11.3?	NO

Please note to subtract the method blank from the stated result.
The normal acceptance range for the extraction surrogates, Chloro-octadecane and o-Terphenyl, is 40-140%.
The normal acceptance range for the fractionation surrogates, 2-Fluorobiphenyl and 2-Bromonaphthalene, is 40-140%.

C9-C18 Aliphatics, Unadjusted	ND	ug/l	105.
C19-C36 Aliphatics, Unadjusted	ND	ug/l	105.
C11-C22 Aromatics, Unadjusted	ND	ug/l	105.
C11-C22 Aromatics, Adjusted	ND	ug/l	105.
Naphthalene	ND	ug/l	21.0
2-Methylnaphthalene	ND	ug/l	21.0
Acenaphthylene	ND	ug/l	21.0
Acenaphthene	ND	ug/l	21.0
Fluorene	ND	ug/l	21.0
Phenanthrene	ND	ug/l	21.0
Anthracene	ND	ug/l	21.0
Fluoranthene	ND	ug/l	21.0
Pyrene	ND	ug/l	21.0
Benzo(a)anthracene	ND	ug/l	21.0
Chrysene	ND	ug/l	21.0
Benzo(b)fluoranthene	ND	ug/l	21.0
Benzo(k)fluoranthene	ND	ug/l	21.0
Benzo(a)pyrene	ND	ug/l	21.0
Indeno(1,2,3-cd)Pyrene	ND	ug/l	21.0
Dibenzo(a,h)anthracene	ND	ug/l	21.0
Benzo(g,h,i)perylene	ND	ug/l	21.0

Surrogate Recovery

Chloro-Octadecane	78.0	%
o-Terphenyl	87.0	%
2-Fluorobiphenyl	98.0	%
2-Bromonaphthalene	63.0	%

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L0204410-10
TRIP
Sample Matrix: WATER

Date Collected: 01-MAY-2002 17:45
Date Received : 06-MAY-2002
Date Reported : 13-MAY-2002

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260				1 8260B		0510 21:23	RY
Methylene chloride	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	0.75				
Chloroform	ND	ug/l	0.75				
Carbon tetrachloride	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	1.8				
Dibromochloromethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.75				
Tetrachloroethene	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	2.5				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
Bromodichloromethane	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
1,1-Dichloropropene	ND	ug/l	2.5				
Bromoform	ND	ug/l	0.50				
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				
1,4-Dichlorobutane	ND	ug/l	5.0				
Iodomethane	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: L0204410-10
TRIP

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260 continued				1 8260B		0510 21:23	RY
1,2,3-Trichloropropane	ND	ug/l	5.0				
Styrene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
Acetone	ND	ug/l	5.0				
Carbon disulfide	ND	ug/l	5.0				
2-Butanone	ND	ug/l	5.0				
Vinyl acetate	ND	ug/l	5.0				
4-Methyl-2-pentanone	ND	ug/l	5.0				
2-Hexanone	ND	ug/l	5.0				
Ethyl methacrylate	ND	ug/l	5.0				
Acrolein	ND	ug/l	12.				
Acrylonitrile	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	2.5				
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	2.5				
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				
trans-1,4-Dichloro-2-butene	ND	ug/l	2.5				
Ethyl ether	ND	ug/l	2.5				

Surrogate Recovery

1,2-Dichloroethane-d4	106.	%
Toluene-d8	99.0	%
4-Bromofluorobenzene	106.	%
Dibromofluoromethane	106.	%

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0204410-10
TRIP

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Volatile Petroleum Hydrocarbons				47 98-1		0509 00:51	MM

Quality Control Information

Condition of sample received: Satisfactory
Aqueous preservative: Laboratory Provided Preserved Container
Sample temperature upon receipt: Received on Ice
Were all QA/QC procedures REQUIRED by the method followed? YES
Were all performance/acceptance standards for the required procedures achieved? YES
Were significant modifications made to the method as specified in Sect 11.3? NO
Please note to subtract the method blank from the stated result.
VPH Standard analysis reports only range data with no adjustments.
The normal acceptance range for the surrogate, 2,5-Dibromotoluene, is 70-130%.

C5-C8 Aliphatics, Unadjusted	ND	ug/l	40.0
C9-C12 Aliphatics, Unadjusted	ND	ug/l	40.0
C9-C10 Aromatics, Unadjusted	ND	ug/l	40.0

Surrogate Recovery

2,5-Dibromotoluene-PID	112.	%
2,5-Dibromotoluene-FID	99.0	%

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

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS

Laboratory Job Number: L0204410

Parameter	Value 1	Value 2	RPD	Units
Total Metals for sample(s) 01-09 (L0204410-01, WG112305)				
Arsenic, Total	ND	ND	NC	mg/l
Barium, Total	0.95	0.94	1	mg/l
Cadmium, Total	ND	ND	NC	mg/l
Chromium, Total	ND	ND	NC	mg/l
Lead, Total	ND	ND	NC	mg/l
Selenium, Total	ND	ND	NC	mg/l
Silver, Total	ND	ND	NC	mg/l
Silver, Total	ND	ND	NC	mg/l
Total Metals for sample(s) 01-09 (L0204410-01, WG112618)				
Mercury, Total	ND	ND	NC	mg/l
Volatile Petroleum Hydrocarbons for sample(s) 10 (L0204324-01, WG112405)				
C5-C8 Aliphatics	ND	ND	NC	ug/l
C9-C12 Aliphatics	ND	ND	NC	ug/l
C9-C10 Aromatics	ND	ND	NC	ug/l
C5-C8 Aliphatics, Adjusted	ND	ND	NC	ug/l
C9-C12 Aliphatics, Adjusted	ND	ND	NC	ug/l
Benzene	ND	ND	NC	ug/l
Toluene	ND	ND	NC	ug/l
Ethylbenzene	ND	ND	NC	ug/l
p/m-Xylene	ND	ND	NC	ug/l
o-Xylene	ND	ND	NC	ug/l
Methyl tert butyl ether	ND	ND	NC	ug/l
Naphthalene	ND	ND	NC	ug/l
Surrogate Recovery				
2,5-Dibromotoluene-PID	110.	116.	5	%
2,5-Dibromotoluene-FID	102.	104.	2	%
Volatile Petroleum Hydrocarbons for sample(s) 01,04-06,09 (L0204430-01, WG112635)				
C5-C8 Aliphatics	146.	139.	5	ug/l
C9-C12 Aliphatics	ND	ND	NC	ug/l
C9-C10 Aromatics	ND	ND	NC	ug/l
C5-C8 Aliphatics, Adjusted	105.	100.	5	ug/l
C9-C12 Aliphatics, Adjusted	ND	ND	NC	ug/l
Benzene	40.6	38.5	5	ug/l
Toluene	ND	ND	NC	ug/l
Ethylbenzene	ND	ND	NC	ug/l
p/m-Xylene	ND	ND	NC	ug/l
o-Xylene	3.03	2.60	15	ug/l
Methyl tert butyl ether	ND	ND	NC	ug/l
Naphthalene	ND	ND	NC	ug/l
Surrogate Recovery				
2,5-Dibromotoluene-PID	121.	118.	3	%
2,5-Dibromotoluene-FID	106.	106.	0	%

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS

Laboratory Job Number: L0204410

Continued

Parameter	Value 1	Value 2	RPD	Units
Extractable Petroleum Hydrocarbons for sample(s) 01-09 (L0204397-01, WG112308)				
C9-C18 Aliphatics	ND	ND	NC	ug/l
C19-C36 Aliphatics	ND	ND	NC	ug/l
C11-C22 Aromatics	ND	ND	NC	ug/l
Surrogate Recovery				
Chloro-Octadecane	66.0	23.0	97	%
o-Terphenyl	71.0	23.0	102	%
2-Fluorobiphenyl	87.0	91.0	4	%
2-Bromonaphthalene	79.0	76.0	4	%

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0204410

Parameter	% Recovery
Total Metals LCS for sample(s) 01-09 (WG112305)	
Arsenic, Total	100
Barium, Total	105
Cadmium, Total	115
Chromium, Total	105
Lead, Total	109
Selenium, Total	103
Silver, Total	104
Total Metals LCS for sample(s) 01-09 (WG112618)	
Mercury, Total	108
Volatile Organics by GC/MS 8260 LCS for sample(s) 04 (WG112632)	
Chlorobenzene	97
Benzene	96
Toluene	99
1,1-Dichloroethene	97
Trichloroethene	101
Surrogate Recovery	
1,2-Dichloroethane-d4	100
Toluene-d8	98
4-Bromofluorobenzene	96
Dibromofluoromethane	102
Volatile Organics by GC/MS 8260 LCS for sample(s) 01,05-06,09-10 (WG112632)	
Chlorobenzene	99
Benzene	103
Toluene	102
1,1-Dichloroethene	106
Trichloroethene	111
Surrogate Recovery	
1,2-Dichloroethane-d4	104
Toluene-d8	104
4-Bromofluorobenzene	98
Dibromofluoromethane	103
Volatile Petroleum Hydrocarbons LCS for sample(s) 10 (WG112405)	
Benzene	110
Toluene	113
Ethylbenzene	112
p/m-Xylene	115
o-Xylene	116
Methyl tert butyl ether	103
Naphthalene	103
Surrogate Recovery	
2,5-Dibromotoluene-PID	113

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0204410

Continued

Parameter	% Recovery
Volatile Petroleum Hydrocarbons LCS for sample(s) 10 (WG112405)	
2,5-Dibromotoluene-FID	100
Volatile Petroleum Hydrocarbons LCS for sample(s) 01,04-06,09 (WG112635)	
Benzene	110
Toluene	114
Ethylbenzene	113
p/m-Xylene	116
o-Xylene	116
Methyl tert butyl ether	106
Naphthalene	103
Surrogate Recovery	
2,5-Dibromotoluene-PID	113
2,5-Dibromotoluene-FID	98
Extractable Petroleum Hydrocarbons LCS for sample(s) 01-09 (WG112308)	
Naphthalene	67
Acenaphthene	74
Anthracene	89
Pyrene	90
Chrysene	93
Nonane (C9)	54
Tetradecane (C14)	76
Nonadecane (C19)	90
Eicosane (C20)	96
Octacosane (C28)	92
Surrogate Recovery	
Chloro-Octadecane	82
o-Terphenyl	88
2-Fluorobiphenyl	95
2-Bromonaphthalene	82
Total Metals SPIKE for sample(s) 01-09 (L0204410-02, WG112305)	
Arsenic, Total	105
Barium, Total	106
Cadmium, Total	112
Chromium, Total	105
Lead, Total	113
Selenium, Total	107
Silver, Total	107
Total Metals SPIKE for sample(s) 01-09 (L0204410-02, WG112618)	
Mercury, Total	106

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH MS/MSD ANALYSIS

Laboratory Job Number: L0204410

Parameter	MS %	MSD %	RPD
Volatile Organics by GC/MS 8260 for sample(s) 01,04-06,09-10 (L0204465-01, WG112632)			
Chlorobenzene	86	95	10
Benzene	88	94	6
Toluene	88	95	8
1,1-Dichloroethene	88	95	7
Trichloroethene	92	99	7

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0204410

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01-09								
Total Metals				1	3015			
Arsenic, Total	ND	mg/l	0.005	1	6010B	0507 10:00	0508 10:03	RW
Barium, Total	ND	mg/l	0.01	1	6010B	0507 10:00	0508 10:03	RW
Cadmium, Total	ND	mg/l	0.005	1	6010B	0507 10:00	0508 10:03	RW
Chromium, Total	ND	mg/l	0.01	1	6010B	0507 10:00	0508 10:03	RW
Lead, Total	ND	mg/l	0.050	1	6010B	0507 10:00	0508 10:03	RW
Selenium, Total	ND	mg/l	0.005	1	6010B	0507 10:00	0508 10:03	RW
Silver, Total	ND	mg/l	0.007	1	6010B	0507 10:00	0508 10:03	RW
Blank Analysis for sample(s) 01-09								
Total Metals								
Mercury, Total	ND	mg/l	0.0005	1	7470A	0510 10:50	0510 18:26	AG
Blank Analysis for sample(s) 01,05-06,09-10								
Volatile Organics by GC/MS 8260				1	8260B		0510 17:49	RY
Methylene chloride	ND	ug/l	5.0					
1,1-Dichloroethane	ND	ug/l	0.75					
Chloroform	ND	ug/l	0.75					
Carbon tetrachloride	ND	ug/l	0.50					
1,2-Dichloropropane	ND	ug/l	1.8					
Dibromochloromethane	ND	ug/l	0.50					
1,1,2-Trichloroethane	ND	ug/l	0.75					
Tetrachloroethene	ND	ug/l	0.50					
Chlorobenzene	ND	ug/l	0.50					
Trichlorofluoromethane	ND	ug/l	2.5					
1,2-Dichloroethane	ND	ug/l	0.50					
1,1,1-Trichloroethane	ND	ug/l	0.50					
Bromodichloromethane	ND	ug/l	0.50					
trans-1,3-Dichloropropene	ND	ug/l	0.50					
cis-1,3-Dichloropropene	ND	ug/l	0.50					
1,1-Dichloropropene	ND	ug/l	2.5					
Bromoform	ND	ug/l	0.50					
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					

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0204410

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01,05-06,09-10							
Volatile Organics by GC/MS 8260 continued				1 8260B		0510 17:49	RY
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				
1,4-Dichlorobutane	ND	ug/l	5.0				
Iodomethane	ND	ug/l	5.0				
1,2,3-Trichloropropane	ND	ug/l	5.0				
Styrene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
Acetone	ND	ug/l	5.0				
Carbon disulfide	ND	ug/l	5.0				
2-Butanone	ND	ug/l	5.0				
Vinyl acetate	ND	ug/l	5.0				
4-Methyl-2-pentanone	ND	ug/l	5.0				
2-Hexanone	ND	ug/l	5.0				
Ethyl methacrylate	ND	ug/l	5.0				
Acrolein	ND	ug/l	12.				
Acrylonitrile	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	2.5				
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	2.5				
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				
trans-1,4-Dichloro-2-butene	ND	ug/l	2.5				
Ethyl ether	ND	ug/l	2.5				

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0204410

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01,05-06,09-10							
Volatile Organics by GC/MS 8260 continued				1 8260B		0510 17:49	RY
Surrogate Recovery							
1,2-Dichloroethane-d4	99.0	%					
Toluene-d8	102.	%					
4-Bromofluorobenzene	105.	%					
Dibromofluoromethane	102.	%					
Blank Analysis for sample(s) 04							
Volatile Organics by GC/MS 8260				1 8260B		0513 11:05	RY
Methylene chloride	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	0.75				
Chloroform	ND	ug/l	0.75				
Carbon tetrachloride	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	1.8				
Dibromochloromethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.75				
Tetrachloroethene	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	2.5				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
Bromodichloromethane	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
1,1-Dichloropropene	ND	ug/l	2.5				
Bromoform	ND	ug/l	0.50				
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				
1,4-Dichlorobutane	ND	ug/l	5.0				
Iodomethane	ND	ug/l	5.0				

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0204410

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 04							
Volatile Organics by GC/MS 8260 continued				1 8260B		0513 11:05	RY
1,2,3-Trichloropropane	ND	ug/l	5.0				
Styrene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
Acetone	ND	ug/l	5.0				
Carbon disulfide	ND	ug/l	5.0				
2-Butanone	ND	ug/l	5.0				
Vinyl acetate	ND	ug/l	5.0				
4-Methyl-2-pentanone	ND	ug/l	5.0				
2-Hexanone	ND	ug/l	5.0				
Ethyl methacrylate	ND	ug/l	5.0				
Acrolein	ND	ug/l	12.				
Acrylonitrile	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	2.5				
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	2.5				
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				
trans-1,4-Dichloro-2-butene	ND	ug/l	2.5				
Ethyl ether	ND	ug/l	2.5				
Surrogate Recovery							
1,2-Dichloroethane-d4	99.0	%					
Toluene-d8	101.	%					
4-Bromofluorobenzene	103.	%					
Dibromofluoromethane	98.0	%					
Blank Analysis for sample(s) 10							
Volatile Petroleum Hydrocarbons				47 98-1		0508 09:38	MM
C5-C8 Aliphatics, Unadjusted	ND	ug/l	40.0				

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0204410

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 10							
Volatile Petroleum Hydrocarbons continued				47 98-1		0508 09:38	MM
C9-C12 Aliphatics, Unadjusted	ND	ug/l	40.0				
C9-C10 Aromatics, Unadjusted	ND	ug/l	40.0				
C5-C8 Aliphatics, Adjusted	ND	ug/l	40.0				
C9-C12 Aliphatics, Adjusted	ND	ug/l	40.0				
Benzene	ND	ug/l	2.00				
Toluene	ND	ug/l	2.00				
Ethylbenzene	ND	ug/l	2.00				
p/m-Xylene	ND	ug/l	2.00				
o-Xylene	ND	ug/l	2.00				
Methyl tert butyl ether	ND	ug/l	4.00				
Naphthalene	ND	ug/l	20.0				
Surrogate Recovery							
2,5-Dibromotoluene-PID	112.	%					
2,5-Dibromotoluene-FID	98.0	%					
Blank Analysis for sample(s) 01,04-06,09							
Volatile Petroleum Hydrocarbons				47 98-1		0509 09:56	MM
C5-C8 Aliphatics, Unadjusted	ND	ug/l	40.0				
C9-C12 Aliphatics, Unadjusted	ND	ug/l	40.0				
C9-C10 Aromatics, Unadjusted	ND	ug/l	40.0				
C5-C8 Aliphatics, Adjusted	ND	ug/l	40.0				
C9-C12 Aliphatics, Adjusted	ND	ug/l	40.0				
Benzene	ND	ug/l	2.00				
Toluene	ND	ug/l	2.00				
Ethylbenzene	ND	ug/l	2.00				
p/m-Xylene	ND	ug/l	2.00				
o-Xylene	ND	ug/l	2.00				
Methyl tert butyl ether	ND	ug/l	4.00				
Naphthalene	ND	ug/l	20.0				
Surrogate Recovery							
2,5-Dibromotoluene-PID	117.	%					
2,5-Dibromotoluene-FID	104.	%					
Blank Analysis for sample(s) 01-09							
Extractable Petroleum Hydrocarbons				46 98-1	0507 15:30	0510 20:47	PD
C9-C18 Aliphatics, Unadjusted	ND	ug/l	100.				
C19-C36 Aliphatics, Unadjusted	ND	ug/l	100.				
C11-C22 Aromatics, Unadjusted	ND	ug/l	100.				
C11-C22 Aromatics, Adjusted	ND	ug/l	100.				
Naphthalene	ND	ug/l	20.0				
2-Methylnaphthalene	ND	ug/l	20.0				
Acenaphthylene	ND	ug/l	20.0				
Acenaphthene	ND	ug/l	20.0				

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0204410

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01-09							
Extractable Petroleum Hydrocarbons continued				46 98-1	0507 15:30	0510 20:47	PD
Fluorene	ND	ug/l	20.0				
Phenanthrene	ND	ug/l	20.0				
Anthracene	ND	ug/l	20.0				
Fluoranthene	ND	ug/l	20.0				
Pyrene	ND	ug/l	20.0				
Benzo(a)anthracene	ND	ug/l	20.0				
Chrysene	ND	ug/l	20.0				
Benzo(b)fluoranthene	ND	ug/l	20.0				
Benzo(k)fluoranthene	ND	ug/l	20.0				
Benzo(a)pyrene	ND	ug/l	20.0				
Indeno(1,2,3-cd)Pyrene	ND	ug/l	20.0				
Dibenzo(a,h)anthracene	ND	ug/l	20.0				
Benzo(g,h,i)perylene	ND	ug/l	20.0				
Surrogate Recovery							
Chloro-Octadecane	72.0	%					
o-Terphenyl	80.0	%					
2-Fluorobiphenyl	88.0	%					
2-Bromonaphthalene	82.0	%					

REFERENCES

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

46. Method for the Determination of Extractable Petroleum Hydrocarbons (EPH), Massachusetts Department of Environmental Protection, (MADEP-EPH-98-1), January 1998.

47. Method for the Determination of Volatile Petroleum Hydrocarbons (VPH), Massachusetts Department of Environmental Protection, (MADEP-VPH-98-1), January 1998.

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.

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.

attachment 1

Quality Control Acceptance Criteria

Volatile Organics by Method 8260B

surrogate spike % recovery	AQ Limits LCL	AQ Limits UCL	Soil Limits LCL	Soil Limits UCL
1,2-Dichloroethane-d_4	75%	125%	75%	125%
4-Bromofluorobenzene	75%	125%	75%	125%
Toluene-d_8	75%	125%	75%	125%
Dibromofluoromethane	75%	125%	75%	125%

matrix spike / matrix spike duplicate (MS/MSD) & lab control sample (LCS)	percent recovery AQ Limits LCL	AQ Limits UCL	Soil Limits LCL	Soil Limits UCL	duplicate and/or MSD AQ Limits RPD	duplicate and/or MSD Soil Limits RPD
1,1-Dichloroethene	61%	145%	59%	172%	all target compounds	
Trichloroethene	71%	120%	62%	137%	20%	30%
Chlorobenzene	75%	130%	60%	133%		
Benzene	76%	127%	66%	142%		
Toluene	76%	125%	59%	139%		

Volatile Organics by Method 8021B

surrogate spike % recovery	AQ Limits LCL	AQ Limits UCL	Soil Limits LCL	Soil Limits UCL
4-Bromochlorobenzene	70%	110%	70%	120%
4-Bromofluorobenzene	70%	110%	70%	120%

matrix spike / matrix spike duplicate (MS/MSD) & lab control sample (LCS)	percent recovery AQ Limits LCL	AQ Limits UCL	Soil Limits LCL	Soil Limits UCL	duplicate and/or MSD AQ Limits RPD	duplicate and/or MSD Soil Limits RPD
1,1-Dichloroethene	70%	130%	70%	130%	all target compounds	
Trichloroethene	70%	130%	70%	130%	20%	30%
Chlorobenzene	70%	130%	70%	130%		
Benzene	70%	130%	70%	130%		
Toluene	70%	130%	70%	130%		
Ethylbenzene	70%	130%	70%	130%		

Semi-Volatile Organics by Method 8270C (includes PAHs)

surrogate spike % recovery	AQ Limits LCL	AQ Limits UCL	Soil Limits LCL	Soil Limits UCL
Nitrobenzene-d_5	23%	120%	23%	120%
Phenol-d_6	10%	120%	10%	120%
2-Fluorophenol	21%	120%	25%	120%
2-Fluorobiphenyl	43%	120%	30%	120%
p-Terphenyl-d_{14}	33%	120%	18%	120%
2,4,6-Tribromophenol	10%	120%	19%	120%

matrix spike / matrix spike duplicate (MS/MSD) & lab control sample (LCS)	percent recovery AQ Limits LCL	AQ Limits UCL	Soil Limits LCL	Soil Limits UCL	duplicate and/or MSD AQ Limits RPD	duplicate and/or MSD Soil Limits RPD
1,2,4-Trichlorobenzene	39%	98%	38%	107%	all target compounds	
Acenaphthene	46%	118%	31%	137%	40%	50%
2,4-Dinitrotoluene	24%	96%	28%	89%		
Pyrene	26%	127%	35%	142%		
N-Nitroso-di-n-propylamine	41%	116%	41%	126%		
1,4-Dichlorobenzene	36%	97%	28%	104%		
Pentachlorophenol	9%	103%	17%	109%		
Phenol	12%	110%	26%	90%		
2-Chlorophenol	27%	123%	25%	102%		
4-Chloro-3-methylphenol	23%	97%	26%	103%		
4-Nitrophenol	10%	80%	11%	114%		

attachment 1

Quality Control Acceptance Criteria

PCB/Pesticides by Method 8082/8081

surrogate spike % recovery	AQ Limits LCL	AQ Limits UCL	Soil Limits LCL	Soil Limits UCL
2,4,5,6-Tetrachloro-m-xylene	40%	120%	40%	120%
Decachlorobiphenyl	40%	120%	40%	120%

matrix spike / matrix spike duplicate (MS/MSD) & lab control sample (LCS)	percent recovery AQ Limits LCL	AQ Limits UCL	Soil Limits LCL	Soil Limits UCL	duplicate and/or MSD AQ Limits RPD	Soil Limits RPD
Lindane	56%	123%	46%	127%	all target compounds	
Heptachlor	40%	131%	35%	130%	30%	50%
Aldrin	40%	120%	34%	132%		
Dieldrin	52%	126%	31%	134%		
Endrin	56%	121%	42%	139%		
4,4'-DDT	38%	127%	23%	134%		
Aroclor 1242/1016	40%	140%	40%	140%		
Aroclor 1260	40%	140%	40%	140%		

Volatile Petroleum Hydrocarbons (VPH) by MA DEP 98-1

surrogate spike % recovery	AQ Limits LCL	AQ Limits UCL	Soil Limits LCL	Soil Limits UCL
2,5-Dibromotoluene	70%	130%	70%	130%

laboratory control sample (LCS)	percent recovery AQ Limits LCL	AQ Limits UCL	Soil Limits LCL	Soil Limits UCL	duplicate AQ Limits RPD	Soil Limits RPD
all compounds	70%	130%	70%	130%	50%	50%

Extractable Petroleum Hydrocarbons (EPH) by MA DEP 98-1

surrogate spike % recovery	AQ Limits LCL	AQ Limits UCL	Soil Limits LCL	Soil Limits UCL
Chloro-octadecane	40%	140%	40%	140%
ortho-Terphenyl	40%	140%	40%	140%
2-Fluorobiphenyl (fractionation)	40%	140%	40%	140%
2-Bromonaphthalene (fractionation)	40%	140%	40%	140%

laboratory control sample (LCS)	percent recovery AQ Limits LCL	AQ Limits UCL	Soil Limits LCL	Soil Limits UCL	duplicate AQ Limits RPD	Soil Limits RPD
all compounds	40%	140%	40%	140%	50%	50%

TPH (GC-FID) by Method 8100M

surrogate spike % recovery	AQ Limits LCL	AQ Limits UCL	Soil Limits LCL	Soil Limits UCL	duplicate AQ Limits RPD	Soil Limits RPD
ortho-Terphenyl	40%	140%	40%	140%	40%	40%

TPH by Method 418.1

matrix spike (MS) & laboratory control sample (LCS)	percent recovery AQ Limits LCL	AQ Limits UCL	Soil Limits LCL	Soil Limits UCL	duplicate AQ Limits RPD	Soil Limits RPD
TPH	60%	140%	60%	140%	40%	40%

CHAIN OF CUSTODY

PAGE ____ OF ____

Date Rec'd in Lab: 5/6

ALPHA Job #: L0204410

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

Client Information

Client: W+C
Address: 35 New England Business Center Suite 180 Andover MA
Phone: 978-557-8150
Fax: 978-557-7948
Email: mcroot@woodardcurran-com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Simmons College
Project Location: 300 Fenway, Boston
Project #: 205982
Project Manager: D. MacDonald
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)
Date Due: 5/13 Time:

Report Information - Data Deliverables

☒ FAX
☐ ADEx
Criteria Checker: ____
(Default based on Regulatory Criteria Indicated)
Other Formats: ____
☐ EMAIL (standard pdf report)
☐ Additional Deliverables: ____
Report to: (if different than Project Manager)

Billing Information

☒ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed	Program	Criteria

Other Project Specific Requirements/Comments:

SAMPLE HANDLING
Filtration (.45 µm for metals)
☒ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOC 8260	BTX Deluxe	VPH (no targets)	TRCPH 8	Sample Specific Comments	TOTAL # BOTTLES
[illegible]	MW01	5/3/02	1355	GW	MC	X	X	X	X		6
	MW05	5/3/02	1710	GW	MC		X		X		2
	MW07	5/3/02	1530	GW	MC		X		X		2
	MW03	5/3/02	1620	GW	MC	X	X	X	X		6
	MW02	5/3/02	1020	GW	MC	X	X	X	X		6
	MW06	5/3/02	1445	GW	MC	X	X	X	X		6
	MW15	5/3/02	1715	GW	MC		X		X		2
	MW04	5/3/02	1645	GW	MC		X		X		2
	MW50	5/3/02	1400	GW	MC	X	X	X	X		6
	Trip	5/1/02	1745	GW	RO	X		X			2
Shaded Gray Areas For Lab Use Only					Container Type	V	A	V	P		
					Preservative	B	B	B	C		

Relinquished By:	Date/Time	Received By:	Date/Time
[illegible]	5/6/02 930	[illegible]	5/6/02 10:4
[illegible]	5/6/02		1645

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.

Form No: 02-02 STD

ALPHA ANALYTICAL LABORATORIES

Eight Walkup Drive
Westborough, Massachusetts 01581-1019
(508) 898-9220

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65 NY:11148

CERTIFICATE OF ANALYSIS

Client:	McPhail Associates	Laboratory Job Number:	L0109188
Address:	30 Norfolk Street	Invoice Number:	55304
	Cambridge, MA 02139	Date Received:	02-OCT-01
Attn:	Mr. Ambrose Donovan	Date Reported:	10-OCT-01
Project Number:	3626	Delivery Method:	Alpha
Site:	SIMMONS COLLEGE		

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0109188-01	GROUNDWATER 1	BOSTON

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately 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 - Laboratory Director
This document electronically signed

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L0109188-01
GROUNDWATER 1
Sample Matrix: WATER

Date Collected: 02-OCT-2001 15:00
Date Received : 02-OCT-2001
Date Reported : 10-OCT-2001

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 8260				1 8260B		1009 13:16	RY
Benzene	ND	ug/l	0.50				
Toluene	ND	ug/l	0.75				
Ethylbenzene	ND	ug/l	0.50				
Bromomethane	ND	ug/l	1.0				
p/m-Xylene	ND	ug/l	0.50				
o-Xylene	ND	ug/l	0.50				
Surrogate Recovery							
1,2-Dichloroethane-d4	81.0	%					
Toluene-d8	89.0	%					
4-Bromofluorobenzene	97.0	%					
Dibromofluoromethane	88.0	%					

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

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH MS/MSD ANALYSIS

Laboratory Job Number: L0109188

Parameter	MS %	MSD %	RPD
Volatile Organics by GC/MS 8260 for sample(s) 01 (L0109188-01, WG94566)			
Chlorobenzene	91	87	4
Benzene	94	91	4
Toluene	93	89	5
1,1-Dichloroethene	99	92	6
Trichloroethene	95	93	2

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0109188

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01							
Volatile Organics by GC/MS 8260				1 8260B		1009 10:16	RY
Methylene chloride	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	0.75				
Chloroform	ND	ug/l	0.75				
Carbon tetrachloride	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	1.8				
Dibromochloromethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.75				
Tetrachloroethene	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	2.5				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
Bromodichloromethane	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
1,1-Dichloropropene	ND	ug/l	2.5				
Bromoform	ND	ug/l	0.50				
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				
1,4-Dichlorobutane	ND	ug/l	5.0				
Iodomethane	ND	ug/l	5.0				
1,2,3-Trichloropropane	ND	ug/l	5.0				
Styrene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
Acetone	ND	ug/l	5.0				
Carbon disulfide	ND	ug/l	5.0				
2-Butanone	ND	ug/l	5.0				
Vinyl acetate	ND	ug/l	5.0				
4-Methyl-2-pentanone	ND	ug/l	5.0				
2-Hexanone	ND	ug/l	5.0				

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0109188

Continued

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01								
Volatile Organics by GC/MS 8260 continued				1	8260B		1009 10:16	RY
Ethyl methacrylate	ND	ug/l	5.0					
Acrolein	ND	ug/l	12.					
Acrylonitrile	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	2.5					
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	2.5					
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					
trans-1,4-Dichloro-2-butene	ND	ug/l	2.5					
Ethyl ether	ND	ug/l	2.5					
Surrogate Recovery								
1,2-Dichloroethane-d4	99.0	%						
Toluene-d8	98.0	%						
4-Bromofluorobenzene	100.	%						
Dibromofluoromethane	100.	%						

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.

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ALPHA ANALYTICAL LABORATORIES

Eight Walkup Drive
Westborough, Massachusetts 01581-1019
(508) 898-9220

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65 NY:11148

CERTIFICATE OF ANALYSIS

Client: McPhail Associates

Address: 30 Norfolk Street

Cambridge, MA 02139

Attn: Ambrose Donovan

Project Number: 3626

Site: SIMMONS COLLEGE

Laboratory Job Number: L0007119

Invoice Number: 40406

Date Received: 22-AUG-00

Date Reported: 29-AUG-00

Delivery Method: Alpha

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0007119-01	B4 (OW)	
L0007119-02	TRIP BLANK	

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately 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 - Laboratory Director

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L0007119-01
B4 (OW)
Sample Matrix: WATER

Date Collected: 22-AUG-2000
Date Received : 22-AUG-2000
Date Reported : 29-AUG-00

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 3-Amber,4-Plastic,4-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP	DATES ANALYSIS	ID
Solids, Total Suspended	15000	mg/l	500	4	160.2		23-Aug	DT
pH	7.2	SU	-	4	150.1		22-Aug	RS
Oil & Grease, Hem-Grav	6.6	mg/l	1.7	38	1664	25-Aug	28-Aug	TH
Total Metals				3	200.7			
Antimony, Total	ND	mg/l	0.05	3	200.7	24-Aug	25-Aug	MG
Arsenic, Total	ND	mg/l	0.030	3	200.7	24-Aug	25-Aug	MG
Beryllium, Total	ND	mg/l	0.005	3	200.7	24-Aug	25-Aug	MG
Cadmium, Total	ND	mg/l	0.005	3	200.7	24-Aug	25-Aug	MG
Chromium, Total	ND	mg/l	0.01	3	200.7	24-Aug	25-Aug	MG
Copper, Total	ND	mg/l	0.010	3	200.7	24-Aug	25-Aug	MG
Lead, Total	ND	mg/l	0.050	3	200.7	24-Aug	25-Aug	MG
Mercury, Total	ND	mg/l	0.0005	4	245.2	27-Aug	28-Aug	DM
Nickel, Total	ND	mg/l	0.025	3	200.7	24-Aug	25-Aug	MG
Selenium, Total	ND	mg/l	0.005	3	200.7	24-Aug	25-Aug	MG
Silver, Total	ND	mg/l	0.01	3	200.7	24-Aug	25-Aug	MG
Thallium, Total	ND	mg/l	0.010	3	200.7	24-Aug	25-Aug	MG
Zinc, Total	ND	mg/l	0.05	3	200.7	24-Aug	25-Aug	MG
Dissolved Metals								
Antimony, Dissolved	ND	mg/l	0.05	3	200.7	28-Aug	29-Aug	RW
Arsenic, Dissolved	ND	mg/l	0.030	3	200.7	28-Aug	29-Aug	RW
Beryllium, Dissolved	ND	mg/l	0.005	3	200.7	28-Aug	29-Aug	RW
Cadmium, Dissolved	ND	mg/l	0.005	3	200.7	28-Aug	29-Aug	RW
Chromium, Dissolved	ND	mg/l	0.01	3	200.7	28-Aug	29-Aug	RW
Copper, Dissolved	ND	mg/l	0.01	3	200.7	28-Aug	29-Aug	RW
Lead, Dissolved	ND	mg/l	0.05	3	200.7	28-Aug	29-Aug	RW
Mercury, Dissolved	ND	mg/l	0.0005	3	245.1	27-Aug	28-Aug	DM
Nickel, Dissolved	ND	mg/l	0.025	3	200.7	28-Aug	29-Aug	RW
Selenium, Dissolved	ND	mg/l	0.005	3	200.7	28-Aug	29-Aug	RW
Silver, Dissolved	ND	mg/l	0.01	3	200.7	28-Aug	29-Aug	RW
Thallium, Dissolved	ND	mg/l	0.010	3	200.7	28-Aug	29-Aug	RW

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0007119-01
B4 (OW)

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP	ANALYSIS	ID
Dissolved Metals								
Zinc, Dissolved	ND	mg/l	0.05	3	200.7	28-Aug	29-Aug	RW
Volatile Organics by GC/MS 624				5	624		25-Aug	GT
Methylene chloride	ND	ug/l	5.0					
1,1-Dichloroethane	ND	ug/l	1.5					
Chloroform	ND	ug/l	1.5					
Carbon tetrachloride	ND	ug/l	1.0					
1,2-Dichloropropane	ND	ug/l	3.5					
Dibromochloromethane	ND	ug/l	1.0					
1,1,2-Trichloroethane	ND	ug/l	1.5					
2-Chloroethylvinyl ether	ND	ug/l	10.					
Tetrachloroethene	ND	ug/l	1.5					
Chlorobenzene	ND	ug/l	3.5					
Trichlorofluoromethane	ND	ug/l	5.0					
1,2-Dichloroethane	ND	ug/l	1.5					
1,1,1-Trichloroethane	ND	ug/l	2.0					
Bromodichloromethane	ND	ug/l	1.0					
trans-1,3-Dichloropropene	ND	ug/l	1.5					
cis-1,3-Dichloropropene	ND	ug/l	1.5					
Bromoform	ND	ug/l	1.0					
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0					
Benzene	ND	ug/l	1.0					
Toluene	ND	ug/l	1.0					
Ethylbenzene	ND	ug/l	1.0					
Chloromethane	ND	ug/l	10.					
Bromomethane	16.	ug/l	5.0					
Vinyl chloride	ND	ug/l	2.0					
Chloroethane	ND	ug/l	2.0					
1,1-Dichloroethene	ND	ug/l	1.0					
trans-1,2-Dichloroethene	ND	ug/l	1.5					
cis-1,2-Dichloroethene	ND	ug/l	1.0					
Trichloroethene	ND	ug/l	1.0					
1,2-Dichlorobenzene	ND	ug/l	5.0					
1,3-Dichlorobenzene	ND	ug/l	5.0					
1,4-Dichlorobenzene	ND	ug/l	5.0					
p/m-Xylene	ND	ug/l	1.0					
o-xylene	ND	ug/l	1.0					
Xylene (Total)	ND	ug/l	1.0					
Styrene	ND	ug/l	1.0					
Acetone	ND	ug/l	10.					
Carbon disulfide	ND	ug/l	5.0					
2-Butanone	ND	ug/l	10.					
Vinyl acetate	ND	ug/l	20.					
4-Methyl-2-pentanone	ND	ug/l	10.					
2-Hexanone	ND	ug/l	10.					
Acrolein	ND	ug/l	20.					
Acrylonitrile	ND	ug/l	10.					

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0007119-01
B4 (OW)

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP	DATES ANALYSIS	ID
Volatile Organics by GC/MS 624 continued				5	624		25-Aug	GT
Surrogate Recovery								
Pentafluorobenzene	102.	%						
Fluorobenzene	102.	%						
4-Bromofluorobenzene	103.	%						
SVOC's by GC/MS 625				5	625	23-Aug	25-Aug	MK
Acenaphthene	ND	ug/l	6.1					
Benzidine	ND	ug/l	61.					
1,2,4-Trichlorobenzene	ND	ug/l	6.1					
Hexachlorobenzene	ND	ug/l	6.1					
Bis(2-chloroethyl)ether	ND	ug/l	6.1					
2-Chloronaphthalene	ND	ug/l	6.1					
1,2-Dichlorobenzene	ND	ug/l	6.1					
1,3-Dichlorobenzene	ND	ug/l	6.1					
1,4-Dichlorobenzene	ND	ug/l	6.1					
3,3'-Dichlorobenzidine	ND	ug/l	61.					
2,4-Dinitrotoluene	ND	ug/l	6.1					
2,6-Dinitrotoluene	ND	ug/l	6.1					
Azobenzene	ND	ug/l	6.1					
Fluoranthene	ND	ug/l	6.1					
4-Chlorophenyl phenyl ether	ND	ug/l	6.1					
4-Bromophenyl phenyl ether	ND	ug/l	6.1					
Bis(2-chloroisopropyl)ether	ND	ug/l	6.1					
Bis(2-chloroethoxy)methane	ND	ug/l	6.1					
Hexachlorobutadiene	ND	ug/l	12.					
Hexachlorocyclopentadiene	ND	ug/l	12.					
Hexachloroethane	ND	ug/l	6.1					
Isophorone	ND	ug/l	6.1					
Naphthalene	ND	ug/l	6.1					
Nitrobenzene	ND	ug/l	6.1					
NDPA/DPA	ND	ug/l	6.1					
n-Nitrosodi-n-propylamine	ND	ug/l	6.1					
Bis(2-ethylhexyl)phthalate	ND	ug/l	12.					
Butyl benzyl phthalate	ND	ug/l	6.1					
Di-n-butylphthalate	ND	ug/l	6.1					
Di-n-octylphthalate	ND	ug/l	6.1					
Diethyl phthalate	ND	ug/l	6.1					
Dimethyl phthalate	ND	ug/l	6.1					
Benzo(a)anthracene	ND	ug/l	6.1					
Benzo(a)pyrene	ND	ug/l	6.1					
Benzo(b)fluoranthene	ND	ug/l	6.1					
Benzo(k)fluoranthene	ND	ug/l	6.1					
Chrysene	ND	ug/l	6.1					
Acenaphthylene	ND	ug/l	6.1					
Anthracene	ND	ug/l	6.1					
Benzo(ghi)perylene	ND	ug/l	6.1					
Fluorene	ND	ug/l	6.1					
Phenanthrene	ND	ug/l	6.1					

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0007119-01
B4 (OW)

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP	DATES ANALYSIS	ID
SVOC's by GC/MS 625 continued				5	625	23-Aug	25-Aug	MK
Dibenzo(a,h)anthracene	ND	ug/l	6.1					
Indeno(1,2,3-cd)pyrene	ND	ug/l	6.1					
Pyrene	ND	ug/l	6.1					
Aniline	ND	ug/l	12.					
4-Chloroaniline	ND	ug/l	6.1					
1-Methylnaphthalene	ND	ug/l	6.1					
2-Nitroaniline	ND	ug/l	6.1					
3-Nitroaniline	ND	ug/l	6.1					
4-Nitroaniline	ND	ug/l	6.1					
Dibenzofuran	ND	ug/l	6.1					
2-Methylnaphthalene	ND	ug/l	6.1					
n-Nitrosodimethylamine	ND	ug/l	61.					
2,4,6-Trichlorophenol	ND	ug/l	6.1					
p-Chloro-m-cresol	ND	ug/l	6.1					
2-Chlorophenol	ND	ug/l	6.1					
2,4-Dichlorophenol	ND	ug/l	12.					
2,4-Dimethylphenol	ND	ug/l	12.					
2-Nitrophenol	ND	ug/l	12.					
4-Nitrophenol	ND	ug/l	12.					
2,4-Dinitrophenol	ND	ug/l	24.					
4,6-Dinitro-o-cresol	ND	ug/l	24.					
Pentachlorophenol	ND	ug/l	24.					
Phenol	ND	ug/l	6.1					
2-Methylphenol	ND	ug/l	6.1					
3-Methylphenol/4-Methylphenol	6.8	ug/l	6.1					
2,4,5-Trichlorophenol	ND	ug/l	6.1					
2,6-Dichlorophenol	ND	ug/l	12.					
Benzoic Acid	ND	ug/l	61.					
Benzyl Alcohol	ND	ug/l	12.					
Carbazole	ND	ug/l	6.1					
Surrogate Recovery								
2-Fluorophenol	41.0	%						
Phenol-d6	36.0	%						
Nitrobenzene-d5	79.0	%						
2-Fluorobiphenyl	83.0	%						
2,4,6-Tribromophenol	99.0	%						
4-Terphenyl-d14	85.0	%						
PCB/Pesticides				5	608	23-Aug	25-Aug	PB
Delta-BHC	ND	ug/l	0.097					
Lindane	ND	ug/l	0.097					
Alpha-BHC	ND	ug/l	0.097					
Beta-BHC	ND	ug/l	0.097					
Heptachlor	ND	ug/l	0.097					
Aldrin	ND	ug/l	0.097					
Heptachlor epoxide	ND	ug/l	0.097					
Endrin	ND	ug/l	0.195					

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0007119-01
B4 (OW)

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP	DATES ANALYSIS	ID
PCB/Pesticides continued				5	608	23-Aug	25-Aug	PB
Endrin aldehyde	ND	ug/l	0.195					
Endrin ketone	ND	ug/l	0.195					
Dieldrin	ND	ug/l	0.195					
4,4'-DDE	ND	ug/l	0.195					
4,4'-DDD	ND	ug/l	0.195					
4,4'-DDT	ND	ug/l	0.195					
Endosulfan I	ND	ug/l	0.097					
Endosulfan II	ND	ug/l	0.195					
Endosulfan sulfate	ND	ug/l	0.195					
Methoxychlor	ND	ug/l	0.976					
Toxaphene	ND	ug/l	0.976					
Chlordane	ND	ug/l	0.976					
cis-Chlordane	ND	ug/l	0.097					
trans-Chlordane	ND	ug/l	0.097					
Aroclor 1221	ND	ug/l	2.44					
Aroclor 1232	ND	ug/l	2.44					
Aroclor 1242/1016	ND	ug/l	2.44					
Aroclor 1248	ND	ug/l	2.44					
Aroclor 1254	ND	ug/l	2.44					
Aroclor 1260	ND	ug/l	2.44					
Surrogate Recovery								
2,4,5,6-Tetrachloro-m-xylene	87.0	%						
Decachlorobiphenyl	54.0	%						
Hydrocarbon Scan by GC 8100M				1	8100M	23-Aug	24-Aug	JA
Mineral Spirits	ND	mg/l	1.0					
Gasoline	ND	mg/l	1.0					
Fuel Oil #2/Diesel	ND	mg/l	1.0					
Fuel Oil #4	ND	mg/l	1.0					
Fuel Oil #6	ND	mg/l	1.0					
Motor Oil	ND	mg/l	1.0					
Kerosene	ND	mg/l	1.0					
Transformer Oil	ND	mg/l	1.0					
Surrogate Recovery								
o-Terphenyl	66.0	%						

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L0007119-02
TRIP BLANK
Sample Matrix: WATER

Date Collected: 15-AUG-2000
Date Received : 22-AUG-2000
Date Reported : 29-AUG-00

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP	ANALYSIS	ID
Volatile Organics by GC/MS 624				5	624		25-Aug	GT
Methylene chloride	ND	ug/l	5.0					
1,1-Dichloroethane	ND	ug/l	1.5					
Chloroform	ND	ug/l	1.5					
Carbon tetrachloride	ND	ug/l	1.0					
1,2-Dichloropropane	ND	ug/l	3.5					
Dibromochloromethane	ND	ug/l	1.0					
1,1,2-Trichloroethane	ND	ug/l	1.5					
2-Chloroethylvinyl ether	ND	ug/l	10.					
Tetrachloroethene	ND	ug/l	1.5					
Chlorobenzene	ND	ug/l	3.5					
Trichlorofluoromethane	ND	ug/l	5.0					
1,2-Dichloroethane	ND	ug/l	1.5					
1,1,1-Trichloroethane	ND	ug/l	2.0					
Bromodichloromethane	ND	ug/l	1.0					
trans-1,3-Dichloropropene	ND	ug/l	1.5					
cis-1,3-Dichloropropene	ND	ug/l	1.5					
Bromoform	ND	ug/l	1.0					
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0					
Benzene	ND	ug/l	1.0					
Toluene	ND	ug/l	1.0					
Ethylbenzene	ND	ug/l	1.0					
Chloromethane	ND	ug/l	10.					
Bromomethane	ND	ug/l	5.0					
Vinyl chloride	ND	ug/l	2.0					
Chloroethane	ND	ug/l	2.0					
1,1-Dichloroethene	ND	ug/l	1.0					
trans-1,2-Dichloroethene	ND	ug/l	1.5					
cis-1,2-Dichloroethene	ND	ug/l	1.0					
Trichloroethene	ND	ug/l	1.0					
1,2-Dichlorobenzene	ND	ug/l	5.0					
1,3-Dichlorobenzene	ND	ug/l	5.0					
1,4-Dichlorobenzene	ND	ug/l	5.0					
p/m-Xylene	ND	ug/l	1.0					
o-xylene	ND	ug/l	1.0					
Xylene (Total)	ND	ug/l	1.0					
Styrene	ND	ug/l	1.0					
Acetone	ND	ug/l	10.					
Carbon disulfide	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: L0007119-02
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PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP	DATES ANALYSIS	ID
Volatile Organics by GC/MS 624 continued				5	624		25-Aug	GT
2-Butanone	ND	ug/l	10.					
Vinyl acetate	ND	ug/l	20.					
4-Methyl-2-pentanone	ND	ug/l	10.					
2-Hexanone	ND	ug/l	10.					
Acrolein	ND	ug/l	20.					
Acrylonitrile	ND	ug/l	10.					
Surrogate Recovery								
Pentafluorobenzene	128.	%						
Fluorobenzene	120.	%						
4-Bromofluorobenzene	126.	%						

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

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS

Laboratory Job Number: L0007119

Parameter	Value 1	Value 2	RPD	Units
Solids, Total Suspended for sample(s) 01 (L0006993-01, WG62494)				
Solids, Total Suspended	200	210	5	mg/l
pH for sample(s) 01 (L0007081-02, WG62452)				
pH	7.2	7.2	0	SU
Total Metals for sample(s) 01 (L0006971-01, WG62718)				
Arsenic, Total	ND	ND	NC	mg/l
Cadmium, Total	ND	ND	NC	mg/l
Chromium, Total	ND	ND	NC	mg/l
Copper, Total	0.056	0.056	0	mg/l
Lead, Total	ND	ND	NC	mg/l
Nickel, Total	ND	ND	NC	mg/l
Selenium, Total	ND	ND	NC	mg/l
Silver, Total	ND	ND	NC	mg/l
Zinc, Total	0.08	0.08	2	mg/l
Total Metals for sample(s) 01 (L0007192-01, WG62895)				
Mercury, Total	ND	ND	NC	mg/l
Dissolved Metals for sample(s) 01 (L0007119-01, WG62961)				
Antimony, Dissolved	ND	ND	NC	mg/l
Arsenic, Dissolved	ND	ND	NC	mg/l
Beryllium, Dissolved	ND	ND	NC	mg/l
Cadmium, Dissolved	ND	ND	NC	mg/l
Chromium, Dissolved	ND	ND	NC	mg/l
Copper, Dissolved	ND	ND	NC	mg/l
Lead, Dissolved	ND	ND	NC	mg/l
Nickel, Dissolved	ND	ND	NC	mg/l
Selenium, Dissolved	ND	ND	NC	mg/l
Silver, Dissolved	ND	ND	NC	mg/l
Thallium, Dissolved	ND	ND	NC	mg/l
Zinc, Dissolved	ND	ND	NC	mg/l
Dissolved Metals for sample(s) 01 (L0007119-01, WG62889)				
Mercury, Dissolved	ND	ND	NC	mg/l
Volatile Organics by GC/MS 624 for sample(s) 01-02 (L0006911-01, WG62364)				
Methylene chloride	ND	ND	NC	ug/l
1,1-Dichloroethane	ND	ND	NC	ug/l
Chloroform	ND	ND	NC	ug/l
Carbon tetrachloride	ND	ND	NC	ug/l
1,2-Dichloropropane	ND	ND	NC	ug/l
Dibromochloromethane	ND	ND	NC	ug/l
1,1,2-Trichloroethane	ND	ND	NC	ug/l
2-Chloroethylvinyl ether	ND	ND	NC	ug/l
Tetrachloroethene	ND	ND	NC	ug/l
Chlorobenzene	ND	ND	NC	ug/l
Trichlorofluoromethane	ND	ND	NC	ug/l

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS

Laboratory Job Number: L0007119

Continued

Parameter	Value 1	Value 2	RPD	Units
Volatile Organics by GC/MS 624 for sample(s) 01-02 (L0006911-01, WG62364)				
1,2-Dichloroethane	ND	ND	NC	ug/l
1,1,1-Trichloroethane	ND	ND	NC	ug/l
Bromodichloromethane	ND	ND	NC	ug/l
trans-1,3-Dichloropropene	ND	ND	NC	ug/l
cis-1,3-Dichloropropene	ND	ND	NC	ug/l
Bromoform	ND	ND	NC	ug/l
1,1,2,2-Tetrachloroethane	ND	ND	NC	ug/l
Benzene	ND	ND	NC	ug/l
Toluene	ND	ND	NC	ug/l
Ethylbenzene	ND	ND	NC	ug/l
Chloromethane	ND	ND	NC	ug/l
Bromomethane	ND	ND	NC	ug/l
Vinyl chloride	ND	ND	NC	ug/l
Chloroethane	ND	ND	NC	ug/l
1,1-Dichloroethene	ND	ND	NC	ug/l
trans-1,2-Dichloroethene	ND	ND	NC	ug/l
cis-1,2-Dichloroethene	ND	ND	NC	ug/l
Trichloroethene	ND	ND	NC	ug/l
1,2-Dichlorobenzene	ND	ND	NC	ug/l
1,3-Dichlorobenzene	ND	ND	NC	ug/l
1,4-Dichlorobenzene	ND	ND	NC	ug/l
p/m-Xylene	ND	ND	NC	ug/l
o-Xylene	ND	ND	NC	ug/l
XYLENE (TOTAL)	ND	ND	NC	ug/l
Styrene	ND	ND	NC	ug/l
Acetone	ND	ND	NC	ug/l
Carbon disulfide	ND	ND	NC	ug/l
2-Butanone	ND	ND	NC	ug/l
Vinyl acetate	ND	ND	NC	ug/l
4-Methyl-2-pentanone	ND	ND	NC	ug/l
2-Hexanone	ND	ND	NC	ug/l
Acrolein	ND	ND	NC	ug/l
Acrylonitrile	ND	ND	NC	ug/l
Surrogate Recovery				
Pentafluorobenzene	120.	116.	3	%
Fluorobenzene	113.	112.	1	%
4-Bromofluorobenzene	117.	117.	0	%
SVOC's by GC/MS 625 for sample(s) 01 (L0007109-01, WG62530)				
Acenaphthene	ND	ND	NC	ug/l
Benzidine	ND	ND	NC	ug/l
1,2,4-Trichlorobenzene	ND	ND	NC	ug/l
Hexachlorobenzene	ND	ND	NC	ug/l
Bis(2-chloroethyl)ether	ND	ND	NC	ug/l
2-Chloronaphthalene	ND	ND	NC	ug/l
1,2-Dichlorobenzene	ND	ND	NC	ug/l
1,3-Dichlorobenzene	ND	ND	NC	ug/l

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS

Laboratory Job Number: L0007119

Continued

Parameter	Value 1	Value 2	RPD	Units
SVOC's by GC/MS 625 for sample(s) 01 (L0007109-01, WG62530)				
1,4-Dichlorobenzene	ND	ND	NC	ug/l
3,3'-Dichlorobenzidine	ND	ND	NC	ug/l
2,4-Dinitrotoluene	ND	ND	NC	ug/l
2,6-Dinitrotoluene	ND	ND	NC	ug/l
Azobenzene	ND	ND	NC	ug/l
Fluoranthene	ND	ND	NC	ug/l
4-Chlorophenyl phenyl ether	ND	ND	NC	ug/l
4-Bromophenyl phenyl ether	ND	ND	NC	ug/l
Bis(2-chloroisopropyl)ether	ND	ND	NC	ug/l
Bis(2-chloroethoxy)methane	ND	ND	NC	ug/l
Hexachlorobutadiene	ND	ND	NC	ug/l
Hexachlorocyclopentadiene	ND	ND	NC	ug/l
Hexachloroethane	ND	ND	NC	ug/l
Isophorone	ND	ND	NC	ug/l
Naphthalene	ND	ND	NC	ug/l
Nitrobenzene	ND	ND	NC	ug/l
NitrosoDiPhenylAmine(NDPA)/DPA	ND	ND	NC	ug/l
n-Nitrosodi-n-propylamine	ND	ND	NC	ug/l
Bis(2-Ethylhexyl)phthalate	ND	ND	NC	ug/l
Butyl benzyl phthalate	ND	ND	NC	ug/l
Di-n-butylphthalate	ND	ND	NC	ug/l
Di-n-octylphthalate	ND	ND	NC	ug/l
Diethyl phthalate	ND	ND	NC	ug/l
Dimethyl phthalate	ND	ND	NC	ug/l
Benzo(a)anthracene	ND	ND	NC	ug/l
Benzo(a)pyrene	ND	ND	NC	ug/l
Benzo(b)fluoranthene	ND	ND	NC	ug/l
Benzo(k)fluoranthene	ND	ND	NC	ug/l
Chrysene	ND	ND	NC	ug/l
Acenaphthylene	ND	ND	NC	ug/l
Anthracene	ND	ND	NC	ug/l
Benzo(ghi)perylene	ND	ND	NC	ug/l
Fluorene	ND	ND	NC	ug/l
Phenanthrene	ND	ND	NC	ug/l
Dibenzo(a,h)anthracene	ND	ND	NC	ug/l
Indeno(1,2,3-cd)Pyrene	ND	ND	NC	ug/l
Pyrene	ND	ND	NC	ug/l
Aniline	ND	ND	NC	ug/l
4-Chloroaniline	ND	ND	NC	ug/l
1-Methylnaphthalene	ND	ND	NC	ug/l
2-Nitroaniline	ND	ND	NC	ug/l
3-Nitroaniline	ND	ND	NC	ug/l
4-Nitroaniline	ND	ND	NC	ug/l
Dibenzofuran	ND	ND	NC	ug/l
2-Methylnaphthalene	ND	ND	NC	ug/l
n-Nitrosodimethylamine	ND	ND	NC	ug/l
2,4,6-Trichlorophenol	ND	ND	NC	ug/l
p-Chloro-m-cresol	ND	ND	NC	ug/l

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS

Laboratory Job Number: L0007119

Continued

Parameter	Value 1	Value 2	RPD	Units
SVOC's by GC/MS 625 for sample(s) 01 (L0007109-01, WG62530)				
2-Chlorophenol	ND	ND	NC	ug/l
2,4-Dichlorophenol	ND	ND	NC	ug/l
2,4-Dimethylphenol	ND	ND	NC	ug/l
2-Nitrophenol	ND	ND	NC	ug/l
4-Nitrophenol	ND	ND	NC	ug/l
2,4-Dinitrophenol	ND	ND	NC	ug/l
4,6-Dinitro-o-cresol	ND	ND	NC	ug/l
Pentachlorophenol	ND	ND	NC	ug/l
Phenol	ND	ND	NC	ug/l
2-Methylphenol	ND	ND	NC	ug/l
3-Methylphenol/4-Methylphenol	ND	ND	NC	ug/l
2,4,5-Trichlorophenol	ND	ND	NC	ug/l
2,6-Dichlorophenol	ND	ND	NC	ug/l
Benzoic Acid	ND	ND	NC	ug/l
Benzyl Alcohol	ND	ND	NC	ug/l
Carbazole	ND	ND	NC	ug/l
Surrogate Recovery				
2-Fluorophenol	24.0	25.0	4	%
Phenol-d6	14.0	26.0	60	%
Nitrobenzene-d5	67.0	25.0	91	%
2-Fluorobiphenyl	76.0	27.0	95	%
2,4,6-Tribromophenol	78.0	32.0	84	%
4-Terphenyl-d14	78.0	30.0	89	%
PCB/Pesticides for sample(s) 01 (L0007109-01, WG62530)				
Delta-BHC	ND	ND	NC	ug/l
Lindane	ND	ND	NC	ug/l
Alpha-BHC	ND	ND	NC	ug/l
Beta-BHC	ND	ND	NC	ug/l
Heptachlor	ND	ND	NC	ug/l
Aldrin	ND	ND	NC	ug/l
Heptachlor epoxide	ND	ND	NC	ug/l
Endrin	ND	ND	NC	ug/l
Endrin aldehyde	ND	ND	NC	ug/l
Endrin ketone	ND	ND	NC	ug/l
Dieldrin	ND	ND	NC	ug/l
4,4'-DDE	ND	ND	NC	ug/l
4,4'-DDD	ND	ND	NC	ug/l
4,4'-DDT	ND	ND	NC	ug/l
Endosulfan I	ND	ND	NC	ug/l
Endosulfan II	ND	ND	NC	ug/l
Endosulfan sulfate	ND	ND	NC	ug/l
Methoxychlor	ND	ND	NC	ug/l
Toxaphene	ND	ND	NC	ug/l
Chlordane	ND	ND	NC	ug/l
cis-Chlordane	ND	ND	NC	ug/l
trans-Chlordane	ND	ND	NC	ug/l

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS

Laboratory Job Number: L0007119

Continued

Parameter	Value 1	Value 2	RPD	Units
PCB/Pesticides for sample(s) 01 (L0007109-01, WG62530)				
Guthion	ND	ND	NC	ug/l
Parathion, methyl	ND	ND	NC	ug/l
Parathion, ethyl	ND	ND	NC	ug/l
Malathion	ND	ND	NC	ug/l
Aroclor 1221	ND	ND	NC	ug/l
Aroclor 1232	ND	ND	NC	ug/l
Aroclor 1242/1016	ND	ND	NC	ug/l
Aroclor 1248	ND	ND	NC	ug/l
Aroclor 1254	ND	ND	NC	ug/l
Aroclor 1260	ND	ND	NC	ug/l
Surrogate Recovery				
2,4,5,6-Tetrachloro-m-xylene	36.0	22.0	48	%
Decachlorobiphenyl	22.0	14.0	44	%
Hydrocarbon Scan by GC 8100M for sample(s) 01 (L0006986-03, WG62535)				
Mineral Spirits	ND	ND	NC	mg/l
Gasoline	ND	ND	NC	mg/l
Fuel Oil #2/Diesel	ND	ND	NC	mg/l
Fuel Oil #4	ND	ND	NC	mg/l
Fuel Oil #6	ND	ND	NC	mg/l
Motor Oil	ND	ND	NC	mg/l
Kerosene	ND	ND	NC	mg/l
Transformer Oil	140	270	63	mg/l
Surrogate Recovery				
o-Terphenyl	93.0	94.0	1	%

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0007119

Parameter	% Recovery
pH LCS for sample(s) 01 (WG62452)	
pH	100
Oil & Grease, Hem-Grav LCS for sample(s) 01 (WG62905)	
Oil & Grease, Hem-Grav	94
Total Metals LCS for sample(s) 01 (WG62718)	
Antimony, Total	100
Arsenic, Total	99
Beryllium, Total	104
Cadmium, Total	102
Chromium, Total	100
Copper, Total	106
Lead, Total	107
Nickel, Total	103
Selenium, Total	105
Silver, Total	100
Thallium, Total	109
Zinc, Total	100
Total Metals LCS for sample(s) 01 (WG62895)	
Mercury, Total	111
Dissolved Metals LCS for sample(s) 01 (WG62961)	
Antimony, Dissolved	98
Arsenic, Dissolved	87
Beryllium, Dissolved	105
Cadmium, Dissolved	102
Chromium, Dissolved	100
Copper, Dissolved	100
Lead, Dissolved	100
Nickel, Dissolved	102
Selenium, Dissolved	84
Silver, Dissolved	100
Thallium, Dissolved	76
Zinc, Dissolved	110
Dissolved Metals LCS for sample(s) 01 (WG62889)	
Mercury, Dissolved	110
Volatile Organics by GC/MS 624 LCS for sample(s) 01-02 (WG62364)	
Methylene chloride	102
1,1-Dichloroethane	102
Chloroform	103
Carbon tetrachloride	104
1,2-Dichloropropane	104
Dibromochloromethane	96
1,1,2-Trichloroethane	97
2-Chloroethylvinyl ether	86

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0007119

Continued

Parameter	% Recovery
Volatile Organics by GC/MS 624 LCS for sample(s) 01-02 (WG62364)	
Tetrachloroethene	106
Chlorobenzene	100
Trichlorofluoromethane	104
1,2-Dichloroethane	98
1,1,1-Trichloroethane	102
Bromodichloromethane	102
trans-1,3-Dichloropropene	97
cis-1,3-Dichloropropene	101
Bromoform	97
1,1,2,2-Tetrachloroethane	98
Benzene	103
Toluene	102
Ethylbenzene	114
Chloromethane	81
Bromomethane	84
Vinyl chloride	102
Chloroethane	110
1,1-Dichloroethene	104
trans-1,2-Dichloroethene	104
cis-1,2-Dichloroethene	103
Trichloroethene	107
1,2-Dichlorobenzene	110
1,3-Dichlorobenzene	113
1,4-Dichlorobenzene	112
p/m-Xylene	113
o-Xylene	114
XYLENE (TOTAL)	113
Styrene	113
Acetone	90
Carbon disulfide	103
2-Butanone	83
Vinyl acetate	104
4-Methyl-2-pentanone	84
2-Hexanone	80
Acrolein	95
Acrylonitrile	90
Surrogate Recovery	
Pentafluorobenzene	103
Fluorobenzene	102
4-Bromofluorobenzene	102
SVOC's by GC/MS 625 LCS for sample(s) 01 (WG62530)	
Acenaphthene	86
1,2,4-Trichlorobenzene	60
1,4-Dichlorobenzene	55
2,4-Dinitrotoluene	120
n-Nitrosodi-n-propylamine	65

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0007119

Continued

Parameter	% Recovery
SVOC's by GC/MS 625 LCS for sample(s) 01 (WG62530)	
Pyrene	94
p-Chloro-m-cresol	84
2-Chlorophenol	50
4-Nitrophenol	28
Pentachlorophenol	87
Phenol	24
Surrogate Recovery	
2-Fluorophenol	26
Phenol-d6	23
Nitrobenzene-d5	52
2-Fluorobiphenyl	71
2,4,6-Tribromophenol	88
4-Terphenyl-d14	82
PCB/Pesticides LCS for sample(s) 01 (WG62530)	
Delta-BHC	120
Lindane	112
Alpha-BHC	109
Beta-BHC	106
Heptachlor	100
Aldrin	91
Heptachlor epoxide	97
Endrin	99
Dieldrin	77
4,4'-DDE	106
4,4'-DDD	97
4,4'-DDT	113
Endosulfan I	96
Endosulfan II	101
Endosulfan sulfate	105
cis-Chlordane	81
trans-Chlordane	100
Surrogate Recovery	
2,4,5,6-Tetrachloro-m-xylene	70
Decachlorobiphenyl	53
Total Metals SPIKE for sample(s) 01 (L0007119-01, WG62718)	
Antimony, Total	90
Arsenic, Total	117
Beryllium, Total	88
Cadmium, Total	79
Chromium, Total	90
Copper, Total	117
Lead, Total	94
Nickel, Total	84
Selenium, Total	122

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0007119

Continued

Parameter	% Recovery
Total Metals SPIKE for sample(s) 01 (L0007119-01, WG62718)	
Silver, Total	110
Thallium, Total	117
Zinc, Total	100
Total Metals SPIKE for sample(s) 01 (L0007193-01, WG62895)	
Mercury, Total	132
Dissolved Metals SPIKE for sample(s) 01 (L0007119-01, WG62961)	
Antimony, Dissolved	94
Arsenic, Dissolved	91
Beryllium, Dissolved	93
Cadmium, Dissolved	87
Chromium, Dissolved	85
Copper, Dissolved	110
Lead, Dissolved	94
Nickel, Dissolved	87
Selenium, Dissolved	75
Silver, Dissolved	120
Thallium, Dissolved	85
Zinc, Dissolved	96
Dissolved Metals SPIKE for sample(s) 01 (L0007119-01, WG62889)	
Mercury, Dissolved	116
Volatile Organics by GC/MS 624 SPIKE for sample(s) 01-02 (L0006911-01, WG62364)	
Methylene chloride	120
1,1-Dichloroethane	116
Chloroform	119
Carbon tetrachloride	105
1,2-Dichloropropane	110
Dibromochloromethane	103
1,1,2-Trichloroethane	106
Tetrachloroethene	106
Chlorobenzene	112
Trichlorofluoromethane	104
1,2-Dichloroethane	115
1,1,1-Trichloroethane	112
Bromodichloromethane	105
trans-1,3-Dichloropropene	99
cis-1,3-Dichloropropene	105
Bromoform	95
1,1,2,2-Tetrachloroethane	103
Benzene	121
Toluene	113
Ethylbenzene	112
Chloromethane	119
Bromomethane	88
Vinyl chloride	108

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0007119

Continued

Parameter	% Recovery
Volatile Organics by GC/MS 624 SPIKE for sample(s) 01-02 (L0006911-01, WG62364)	
Chloroethane	147
1,1-Dichloroethene	100
trans-1,2-Dichloroethene	118
cis-1,2-Dichloroethene	120
Trichloroethene	119
1,2-Dichlorobenzene	109
1,3-Dichlorobenzene	109
1,4-Dichlorobenzene	110
p/m-Xylene	113
o-Xylene	113
XYLENE (TOTAL)	113
Styrene	107
Acetone	83
Carbon disulfide	85
2-Butanone	98
Vinyl acetate	125
4-Methyl-2-pentanone	97
2-Hexanone	93
Acrolein	106
Acrylonitrile	104
Surrogate Recovery	
Pentafluorobenzene	116
Fluorobenzene	110
4-Bromofluorobenzene	115
SVOC's by GC/MS 625 SPIKE for sample(s) 01 (L0007109-01, WG62530)	
Acenaphthene	90
1,2,4-Trichlorobenzene	74
1,4-Dichlorobenzene	62
2,4-Dinitrotoluene	110
n-Nitrosodi-n-propylamine	67
Pyrene	100
p-Chloro-m-cresol	74
2-Chlorophenol	54
4-Nitrophenol	8
Pentachlorophenol	96
Phenol	44
Surrogate Recovery	
2-Fluorophenol	37
Phenol-d6	39
Nitrobenzene-d5	55
2-Fluorobiphenyl	75
2,4,6-Tribromophenol	93
4-Terphenyl-d14	87

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0007119

Continued

Parameter	% Recovery
PCB/Pesticides SPIKE for sample(s) 01 (L0007109-01, WG62530)	
Delta-BHC	90
Lindane	88
Alpha-BHC	89
Beta-BHC	74
Heptachlor	88
Aldrin	81
Heptachlor epoxide	78
Endrin	84
Dieldrin	62
4,4'-DDE	86
4,4'-DDD	76
4,4'-DDT	89
Endosulfan I	77
Endosulfan II	81
Endosulfan sulfate	84
cis-Chlordane	68
trans-Chlordane	82
Surrogate Recovery	
2,4,5,6-Tetrachloro-m-xylene	57
Decachlorobiphenyl	36

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0007119

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP	DATES ANALYSIS	ID
Blank Analysis for sample(s) 01								
Solids, Total Suspended	ND	mg/l	5.0	4	160.2		23-Aug	DT
Blank Analysis for sample(s) 01								
Oil & Grease, Hem-Grav	ND	mg/l	1.4	38	1664	25-Aug	28-Aug	TH
Blank Analysis for sample(s) 01								
Total Metals				3	200.7			
Antimony, Total	ND	mg/l	0.05	3	200.7	24-Aug	25-Aug	MG
Arsenic, Total	ND	mg/l	0.005	3	200.7	24-Aug	25-Aug	MG
Beryllium, Total	ND	mg/l	0.005	3	200.7	24-Aug	25-Aug	MG
Cadmium, Total	ND	mg/l	0.005	3	200.7	24-Aug	25-Aug	MG
Chromium, Total	ND	mg/l	0.01	3	200.7	24-Aug	25-Aug	MG
Copper, Total	ND	mg/l	0.010	3	200.7	24-Aug	25-Aug	MG
Lead, Total	ND	mg/l	0.050	3	200.7	24-Aug	25-Aug	MG
Nickel, Total	ND	mg/l	0.025	3	200.7	24-Aug	25-Aug	MG
Selenium, Total	ND	mg/l	0.005	3	200.7	24-Aug	25-Aug	MG
Silver, Total	ND	mg/l	0.01	3	200.7	24-Aug	25-Aug	MG
Thallium, Total	ND	mg/l	0.010	3	200.7	24-Aug	25-Aug	MG
Zinc, Total	ND	mg/l	0.05	3	200.7	24-Aug	25-Aug	MG
Blank Analysis for sample(s) 01								
Total Metals								
Mercury, Total	ND	mg/l	0.0005	4	245.2	27-Aug	28-Aug	DM
Blank Analysis for sample(s) 01								
Dissolved Metals								
Antimony, Dissolved	ND	mg/l	0.05	3	200.7	28-Aug	29-Aug	RW
Arsenic, Dissolved	ND	mg/l	0.030	3	200.7	28-Aug	29-Aug	RW
Beryllium, Dissolved	ND	mg/l	0.005	3	200.7	28-Aug	29-Aug	RW
Cadmium, Dissolved	ND	mg/l	0.005	3	200.7	28-Aug	29-Aug	RW
Chromium, Dissolved	ND	mg/l	0.01	3	200.7	28-Aug	29-Aug	RW
Copper, Dissolved	ND	mg/l	0.01	3	200.7	28-Aug	29-Aug	RW
Lead, Dissolved	ND	mg/l	0.05	3	200.7	28-Aug	29-Aug	RW
Nickel, Dissolved	ND	mg/l	0.025	3	200.7	28-Aug	29-Aug	RW
Selenium, Dissolved	ND	mg/l	0.005	3	200.7	28-Aug	29-Aug	RW
Silver, Dissolved	ND	mg/l	0.01	3	200.7	28-Aug	29-Aug	RW
Thallium, Dissolved	ND	mg/l	0.010	3	200.7	28-Aug	29-Aug	RW
Zinc, Dissolved	ND	mg/l	0.05	3	200.7	28-Aug	29-Aug	RW

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0007119

Continued

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP	DATES ANALYSIS	ID
Blank Analysis for sample(s) 01								
Dissolved Metals								
Mercury, Dissolved	ND	mg/l	0.0005	3	245.1	27-Aug	28-Aug	DM
Blank Analysis for sample(s) 01-02								
Volatile Organics by GC/MS 624				5	624		25-Aug	GT
Methylene chloride	ND	ug/l	5.0					
1,1-Dichloroethane	ND	ug/l	1.5					
Chloroform	ND	ug/l	1.5					
Carbon tetrachloride	ND	ug/l	1.0					
1,2-Dichloropropane	ND	ug/l	3.5					
Dibromochloromethane	ND	ug/l	1.0					
1,1,2-Trichloroethane	ND	ug/l	1.5					
2-Chloroethylvinyl ether	ND	ug/l	10.					
Tetrachloroethene	ND	ug/l	1.5					
Chlorobenzene	ND	ug/l	3.5					
Trichlorofluoromethane	ND	ug/l	5.0					
1,2-Dichloroethane	ND	ug/l	1.5					
1,1,1-Trichloroethane	ND	ug/l	2.0					
Bromodichloromethane	ND	ug/l	1.0					
trans-1,3-Dichloropropene	ND	ug/l	1.5					
cis-1,3-Dichloropropene	ND	ug/l	1.5					
Bromoform	ND	ug/l	1.0					
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0					
Benzene	ND	ug/l	1.0					
Toluene	ND	ug/l	1.0					
Ethylbenzene	ND	ug/l	1.0					
Chloromethane	ND	ug/l	10.					
Bromomethane	ND	ug/l	5.0					
Vinyl chloride	ND	ug/l	2.0					
Chloroethane	ND	ug/l	2.0					
1,1-Dichloroethene	ND	ug/l	1.0					
trans-1,2-Dichloroethene	ND	ug/l	1.5					
cis-1,2-Dichloroethene	ND	ug/l	1.0					
Trichloroethene	ND	ug/l	1.0					
1,2-Dichlorobenzene	ND	ug/l	5.0					
1,3-Dichlorobenzene	ND	ug/l	5.0					
1,4-Dichlorobenzene	ND	ug/l	5.0					
p/m-Xylene	ND	ug/l	1.0					
o-xylene	ND	ug/l	1.0					
Xylene (Total)	ND	ug/l	1.0					
Styrene	ND	ug/l	1.0					
Acetone	ND	ug/l	10.					
Carbon disulfide	ND	ug/l	5.0					
2-Butanone	ND	ug/l	10.					
Vinyl acetate	ND	ug/l	20.					
4-Methyl-2-pentanone	ND	ug/l	10.					
2-Hexanone	ND	ug/l	10.					

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0007119

Continued

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP	ANALYSIS	ID
Blank Analysis for sample(s) 01-02								
Volatile Organics by GC/MS 624 continued				5	624		25-Aug	GT
Acrolein	ND	ug/l	20.					
Acrylonitrile	ND	ug/l	10.					
Surrogate Recovery								
Pentafluorobenzene	104.	%						
Fluorobenzene	102.	%						
4-Bromofluorobenzene	103.	%						
Blank Analysis for sample(s) 01								
SVOC's by GC/MS 625				5	625	23-Aug	25-Aug	MK
Acenaphthene	ND	ug/l	5.0					
Benzidine	ND	ug/l	50.					
1,2,4-Trichlorobenzene	ND	ug/l	5.0					
Hexachlorobenzene	ND	ug/l	5.0					
Bis(2-chloroethyl)ether	ND	ug/l	5.0					
2-Chloronaphthalene	ND	ug/l	5.0					
1,2-Dichlorobenzene	ND	ug/l	5.0					
1,3-Dichlorobenzene	ND	ug/l	5.0					
1,4-Dichlorobenzene	ND	ug/l	5.0					
3,3'-Dichlorobenzidine	ND	ug/l	50.					
2,4-Dinitrotoluene	ND	ug/l	5.0					
2,6-Dinitrotoluene	ND	ug/l	5.0					
Azobenzene	ND	ug/l	5.0					
Fluoranthene	ND	ug/l	5.0					
4-Chlorophenyl phenyl ether	ND	ug/l	5.0					
4-Bromophenyl phenyl ether	ND	ug/l	5.0					
Bis(2-chloroisopropyl)ether	ND	ug/l	5.0					
Bis(2-chloroethoxy)methane	ND	ug/l	5.0					
Hexachlorobutadiene	ND	ug/l	10.					
Hexachlorocyclopentadiene	ND	ug/l	10.					
Hexachloroethane	ND	ug/l	5.0					
Isophorone	ND	ug/l	5.0					
Naphthalene	ND	ug/l	5.0					
Nitrobenzene	ND	ug/l	5.0					
NDPA/DPA	ND	ug/l	5.0					
n-Nitrosodi-n-propylamine	ND	ug/l	5.0					
Bis(2-ethylhexyl)phthalate	ND	ug/l	10.					
Butyl benzyl phthalate	ND	ug/l	5.0					
Di-n-butylphthalate	ND	ug/l	5.0					
Di-n-octylphthalate	ND	ug/l	5.0					
Diethyl phthalate	ND	ug/l	5.0					
Dimethyl phthalate	ND	ug/l	5.0					
Benzo(a)anthracene	ND	ug/l	5.0					
Benzo(a)pyrene	ND	ug/l	5.0					
Benzo(b)fluoranthene	ND	ug/l	5.0					
Benzo(k)fluoranthene	ND	ug/l	5.0					

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0007119

Continued

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP	DATES ANALYSIS	ID
Blank Analysis for sample(s) 01								
SVOC's by GC/MS 625 continued				5	625	23-Aug	25-Aug	MK
Chrysene	ND	ug/l	5.0					
Acenaphthylene	ND	ug/l	5.0					
Anthracene	ND	ug/l	5.0					
Benzo(ghi)perylene	ND	ug/l	5.0					
Fluorene	ND	ug/l	5.0					
Phenanthrene	ND	ug/l	5.0					
Dibenzo(a,h)anthracene	ND	ug/l	5.0					
Indeno(1,2,3-cd)pyrene	ND	ug/l	5.0					
Pyrene	ND	ug/l	5.0					
Aniline	ND	ug/l	10.					
4-Chloroaniline	ND	ug/l	5.0					
1-Methylnaphthalene	ND	ug/l	5.0					
2-Nitroaniline	ND	ug/l	5.0					
3-Nitroaniline	ND	ug/l	5.0					
4-Nitroaniline	ND	ug/l	5.0					
Dibenzofuran	ND	ug/l	5.0					
2-Methylnaphthalene	ND	ug/l	5.0					
n-Nitrosodimethylamine	ND	ug/l	50.					
2,4,6-Trichlorophenol	ND	ug/l	5.0					
p-Chloro-m-cresol	ND	ug/l	5.0					
2-Chlorophenol	ND	ug/l	5.0					
2,4-Dichlorophenol	ND	ug/l	10.					
2,4-Dimethylphenol	ND	ug/l	10.					
2-Nitrophenol	ND	ug/l	10.					
4-Nitrophenol	ND	ug/l	10.					
2,4-Dinitrophenol	ND	ug/l	20.					
4,6-Dinitro-o-cresol	ND	ug/l	20.					
Pentachlorophenol	ND	ug/l	20.					
Phenol	ND	ug/l	5.0					
2-Methylphenol	ND	ug/l	5.0					
3-Methylphenol/4-Methylphenol	ND	ug/l	5.0					
2,4,5-Trichlorophenol	ND	ug/l	5.0					
2,6-Dichlorophenol	ND	ug/l	10.					
Benzoic Acid	ND	ug/l	50.					
Benzyl Alcohol	ND	ug/l	10.					
Carbazole	ND	ug/l	5.0					
Surrogate Recovery								
2-Fluorophenol	34.0	%						
Phenol-d6	26.0	%						
Nitrobenzene-d5	64.0	%						
2-Fluorobiphenyl	73.0	%						
2,4,6-Tribromophenol	91.0	%						
4-Terphenyl-d14	86.0	%						

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0007119

Continued

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP	DATES ANALYSIS	ID
Blank Analysis for sample(s) 01								
PCB/Pesticides				5	608	23-Aug	25-Aug	PB
Delta-BHC	ND	ug/l	0.080					
Lindane	ND	ug/l	0.080					
Alpha-BHC	ND	ug/l	0.080					
Beta-BHC	ND	ug/l	0.080					
Heptachlor	ND	ug/l	0.080					
Aldrin	ND	ug/l	0.080					
Heptachlor epoxide	ND	ug/l	0.080					
Endrin	ND	ug/l	0.160					
Endrin aldehyde	ND	ug/l	0.160					
Endrin ketone	ND	ug/l	0.160					
Dieldrin	ND	ug/l	0.160					
4,4'-DDE	ND	ug/l	0.160					
4,4'-DDD	ND	ug/l	0.160					
4,4'-DDT	ND	ug/l	0.160					
Endosulfan I	ND	ug/l	0.080					
Endosulfan II	ND	ug/l	0.160					
Endosulfan sulfate	ND	ug/l	0.160					
Methoxychlor	ND	ug/l	0.800					
Toxaphene	ND	ug/l	0.800					
Chlordane	ND	ug/l	0.800					
cis-Chlordane	ND	ug/l	0.080					
trans-Chlordane	ND	ug/l	0.080					
Guthion	ND	ug/l	0.400					
Parathion, methyl	ND	ug/l	0.400					
Parathion, ethyl	ND	ug/l	0.400					
Malathion	ND	ug/l	0.400					
Aroclor 1221	ND	ug/l	2.00					
Aroclor 1232	ND	ug/l	2.00					
Aroclor 1242/1016	ND	ug/l	2.00					
Aroclor 1248	ND	ug/l	2.00					
Aroclor 1254	ND	ug/l	2.00					
Aroclor 1260	ND	ug/l	2.00					
Surrogate Recovery								
2,4,5,6-Tetrachloro-m-xylene	52.0	%						
Decachlorobiphenyl	46.0	%						
Blank Analysis for sample(s) 01								
Hydrocarbon Scan by GC 8100M				1	8100M	23-Aug	24-Aug	JA
Mineral Spirits	ND	mg/l	1.0					
Gasoline	ND	mg/l	1.0					
Fuel Oil #2/Diesel	ND	mg/l	1.0					
Fuel Oil #4	ND	mg/l	1.0					
Fuel Oil #6	ND	mg/l	1.0					
Motor Oil	ND	mg/l	1.0					
Kerosene	ND	mg/l	1.0					

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0007119

Continued

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP	ANALYSIS	ID
Blank Analysis for sample(s) 01								
Hydrocarbon Scan by GC 8100M continued				1	8100M	23-Aug	24-Aug	JA
Transformer Oil	ND	mg/l	1.0					
Surrogate Recovery								
o-Terphenyl	83.0	%						

REFERENCES

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

3. Methods for the Determination of Metals in Environmental Samples, Supplement I. EPA/600/R-94/111. May 1994.

4. Methods for Chemical Analysis of Water and Wastes. EPA 600/4-82-055. 1982.

5. Test Procedures for Analysis of Organic Pollutants. Appendix A, Part 136, Code of Federal Regulations. July 1, 1985 edition.

38. N-Hexane Extractable Material (HEM) and Silica Gel Treated N-Hexane Extractable Material (SGT-HEM) by Extraction and Gravimetry (Oil and Grease and Total Petroleum Hydrocarbons), EPA-821-B-94-004, October 1994.

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.

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

Eight Walkup Drive
Westborough, Massachusetts 01581-1019
(508) 898-9220

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65 NY:11148

CERTIFICATE OF ANALYSIS

Client: McPhail Associates

Address: 30 Norfolk Street

Cambridge, MA 02139

Attn: Ambrose Donovan

Project Number: 3626

Site: SIMMONS COLLEGE

Laboratory Job Number: L0011215

Invoice Number: 44668

Date Received: 05-DEC-00

Date Reported: 11-DEC-00

Delivery Method: Alpha

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0011215-01	B-6 (OW)	
L0011215-02	B-1 (OW)	

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately 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 - Laboratory Director

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L0011215-01
B-6 (OW)
Sample Matrix: WATER

Date Collected: 04-DEC-2000
Date Received : 05-DEC-2000
Date Reported : 11-DEC-00

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP	ANALYSIS	ID
Dissolved Metals								
Lead, Dissolved	ND	mg/l	0.01	1	6010B	05-Dec	07-Dec	RW
Volatile Organics by GC/MS 8260				1	8260B		07-Dec	BT
Methylene chloride	ND	ug/l	5.0					
1,1-Dichloroethane	ND	ug/l	1.5					
Chloroform	ND	ug/l	1.5					
Carbon tetrachloride	ND	ug/l	1.0					
1,2-Dichloropropane	ND	ug/l	3.5					
Dibromochloromethane	ND	ug/l	1.0					
1,1,2-Trichloroethane	ND	ug/l	1.5					
Tetrachloroethene	ND	ug/l	1.0					
Chlorobenzene	ND	ug/l	3.5					
Trichlorofluoromethane	ND	ug/l	5.0					
1,2-Dichloroethane	ND	ug/l	1.0					
1,1,1-Trichloroethane	ND	ug/l	1.0					
Bromodichloromethane	ND	ug/l	1.0					
trans-1,3-Dichloropropene	ND	ug/l	1.0					
cis-1,3-Dichloropropene	ND	ug/l	1.0					
1,1-Dichloropropene	ND	ug/l	5.0					
Bromoform	ND	ug/l	1.0					
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0					
Benzene	ND	ug/l	1.0					
Toluene	ND	ug/l	1.5					
Ethylbenzene	ND	ug/l	1.0					
Chloromethane	ND	ug/l	10.					
Bromomethane	ND	ug/l	2.0					
Vinyl chloride	ND	ug/l	2.0					
Chloroethane	ND	ug/l	2.0					
1,1-Dichloroethene	ND	ug/l	1.5					
trans-1,2-Dichloroethene	ND	ug/l	1.5					
Trichloroethene	ND	ug/l	1.0					
1,2-Dichlorobenzene	ND	ug/l	5.0					
1,3-Dichlorobenzene	ND	ug/l	5.0					
1,4-Dichlorobenzene	ND	ug/l	5.0					
Methyl tert butyl ether	4.6	ug/l	4.0					
p/m-Xylene	ND	ug/l	1.0					
o-Xylene	ND	ug/l	1.0					

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0011215-01
B-6 (OW)

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP	DATES ANALYSIS	ID
Volatile Organics by GC/MS 8260 continued				1	8260B		07-Dec	BT
cis-1,2-Dichloroethene	ND	ug/l	1.0					
Dibromomethane	ND	ug/l	10.					
1,4-Dichlorobutane	ND	ug/l	10.					
Iodomethane	ND	ug/l	10.					
1,2,3-Trichloropropane	ND	ug/l	10.					
Styrene	ND	ug/l	1.0					
Dichlorodifluoromethane	ND	ug/l	10.					
Acetone	ND	ug/l	10.					
Carbon disulfide	ND	ug/l	10.					
2-Butanone	ND	ug/l	10.					
Vinyl acetate	ND	ug/l	10.					
4-Methyl-2-pentanone	ND	ug/l	10.					
2-Hexanone	ND	ug/l	10.					
Ethyl methacrylate	ND	ug/l	10.					
Acrolein	ND	ug/l	25.					
Acrylonitrile	ND	ug/l	10.					
Bromochloromethane	ND	ug/l	5.0					
Tetrahydrofuran	ND	ug/l	20.					
2,2-Dichloropropane	ND	ug/l	5.0					
1,2-Dibromoethane	ND	ug/l	5.0					
1,3-Dichloropropane	ND	ug/l	5.0					
1,1,1,2-Tetrachloroethane	ND	ug/l	5.0					
Bromobenzene	ND	ug/l	5.0					
n-Butylbenzene	ND	ug/l	5.0					
sec-Butylbenzene	ND	ug/l	5.0					
tert-Butylbenzene	ND	ug/l	5.0					
o-Chlorotoluene	ND	ug/l	5.0					
p-Chlorotoluene	ND	ug/l	5.0					
1,2-Dibromo-3-chloropropane	ND	ug/l	5.0					
Hexachlorobutadiene	ND	ug/l	5.0					
Isopropylbenzene	ND	ug/l	5.0					
p-Isopropyltoluene	ND	ug/l	5.0					
Naphthalene	ND	ug/l	5.0					
n-Propylbenzene	ND	ug/l	5.0					
1,2,3-Trichlorobenzene	ND	ug/l	5.0					
1,2,4-Trichlorobenzene	ND	ug/l	5.0					
1,3,5-Trimethylbenzene	ND	ug/l	5.0					
1,2,4-Trimethylbenzene	ND	ug/l	5.0					
trans-1,4-Dichloro-2-butene	ND	ug/l	5.0					
Ethyl ether	ND	ug/l	25.					
Surrogate Recovery								
1,2-Dichloroethane-d4	116.	%						
Toluene-d8	106.	%						
4-Bromofluorobenzene	105.	%						
Dibromofluoromethane	111.	%						

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L0011215-02
B-1 (OW)
Sample Matrix: WATER

Date Collected: 04-DEC-2000
Date Received : 05-DEC-2000
Date Reported : 11-DEC-00

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP	DATES ANALYSIS	ID
Dissolved Metals								
Lead, Dissolved	ND	mg/l	0.01	1	6010B	05-Dec	07-Dec	RW
Volatile Organics by GC/MS 8260				1	8260B		07-Dec	BT
Methylene chloride	ND	ug/l	5.0					
1,1-Dichloroethane	ND	ug/l	1.5					
Chloroform	ND	ug/l	1.5					
Carbon tetrachloride	ND	ug/l	1.0					
1,2-Dichloropropane	ND	ug/l	3.5					
Dibromochloromethane	ND	ug/l	1.0					
1,1,2-Trichloroethane	ND	ug/l	1.5					
Tetrachloroethene	ND	ug/l	1.0					
Chlorobenzene	ND	ug/l	3.5					
Trichlorofluoromethane	ND	ug/l	5.0					
1,2-Dichloroethane	ND	ug/l	1.0					
1,1,1-Trichloroethane	ND	ug/l	1.0					
Bromodichloromethane	ND	ug/l	1.0					
trans-1,3-Dichloropropene	ND	ug/l	1.0					
cis-1,3-Dichloropropene	ND	ug/l	1.0					
1,1-Dichloropropene	ND	ug/l	5.0					
Bromoform	ND	ug/l	1.0					
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0					
Benzene	ND	ug/l	1.0					
Toluene	ND	ug/l	1.5					
Ethylbenzene	ND	ug/l	1.0					
Chloromethane	ND	ug/l	10.					
Bromomethane	ND	ug/l	2.0					
Vinyl chloride	ND	ug/l	2.0					
Chloroethane	ND	ug/l	2.0					
1,1-Dichloroethene	ND	ug/l	1.5					
trans-1,2-Dichloroethene	ND	ug/l	1.5					
Trichloroethene	ND	ug/l	1.0					
1,2-Dichlorobenzene	ND	ug/l	5.0					
1,3-Dichlorobenzene	ND	ug/l	5.0					
1,4-Dichlorobenzene	ND	ug/l	5.0					
Methyl tert butyl ether	ND	ug/l	4.0					
p/m-Xylene	ND	ug/l	1.0					
o-Xylene	ND	ug/l	1.0					

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0011215-02
B-1 (OW)

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP	DATES ANALYSIS	ID
Volatile Organics by GC/MS 8260 continued				1	8260B		07-Dec	BT
cis-1,2-Dichloroethene	ND	ug/l	1.0					
Dibromomethane	ND	ug/l	10.					
1,4-Dichlorobutane	ND	ug/l	10.					
Iodomethane	ND	ug/l	10.					
1,2,3-Trichloropropane	ND	ug/l	10.					
Styrene	ND	ug/l	1.0					
Dichlorodifluoromethane	ND	ug/l	10.					
Acetone	ND	ug/l	10.					
Carbon disulfide	ND	ug/l	10.					
2-Butanone	ND	ug/l	10.					
Vinyl acetate	ND	ug/l	10.					
4-Methyl-2-pentanone	ND	ug/l	10.					
2-Hexanone	ND	ug/l	10.					
Ethyl methacrylate	ND	ug/l	10.					
Acrolein	ND	ug/l	25.					
Acrylonitrile	ND	ug/l	10.					
Bromochloromethane	ND	ug/l	5.0					
Tetrahydrofuran	ND	ug/l	20.					
2,2-Dichloropropane	ND	ug/l	5.0					
1,2-Dibromoethane	ND	ug/l	5.0					
1,3-Dichloropropane	ND	ug/l	5.0					
1,1,1,2-Tetrachloroethane	ND	ug/l	5.0					
Bromobenzene	ND	ug/l	5.0					
n-Butylbenzene	ND	ug/l	5.0					
sec-Butylbenzene	ND	ug/l	5.0					
tert-Butylbenzene	ND	ug/l	5.0					
o-Chlorotoluene	ND	ug/l	5.0					
p-Chlorotoluene	ND	ug/l	5.0					
1,2-Dibromo-3-chloropropane	ND	ug/l	5.0					
Hexachlorobutadiene	ND	ug/l	5.0					
Isopropylbenzene	ND	ug/l	5.0					
p-Isopropyltoluene	ND	ug/l	5.0					
Naphthalene	ND	ug/l	5.0					
n-Propylbenzene	ND	ug/l	5.0					
1,2,3-Trichlorobenzene	ND	ug/l	5.0					
1,2,4-Trichlorobenzene	ND	ug/l	5.0					
1,3,5-Trimethylbenzene	ND	ug/l	5.0					
1,2,4-Trimethylbenzene	ND	ug/l	5.0					
trans-1,4-Dichloro-2-butene	ND	ug/l	5.0					
Ethyl ether	ND	ug/l	25.					
Surrogate Recovery								
1,2-Dichloroethane-d4	115.	%						
Toluene-d8	107.	%						
4-Bromofluorobenzene	108.	%						
Dibromofluoromethane	112.	%						

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

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS

Laboratory Job Number: L0011215

Parameter	Value 1	Value 2	RPD	Units
Dissolved Metals for sample(s) 01-02 (L0011215-01, WG71637)				
Lead, Dissolved	ND	ND	NC	mg/l

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0011215

Parameter	% Recovery
Dissolved Metals SPIKE for sample(s) 01-02 (L0011215-02, WG71637)	
Lead, Dissolved	96

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH MS/MSD ANALYSIS

Laboratory Job Number: L0011215

Parameter	MS %	MSD %	RPD
Volatile Organics by GC/MS 8260 for sample(s) 01-02 (L0011251-02, WG71766)			
Chlorobenzene	117	115	2
Benzene	111	109	2
Toluene	121	120	1
1,1-Dichloroethene	115	112	3
Trichloroethene	104	105	1

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0011215

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP	ANALYSIS	ID
Blank Analysis for sample(s) 01-02								
Dissolved Metals								
Lead, Dissolved	ND	mg/l	0.01	1	6010B	05-Dec	07-Dec	RW
Blank Analysis for sample(s) 01-02								
Volatile Organics by GC/MS 8260				1	8260B		07-Dec	BT
Methylene chloride	ND	ug/l	5.0					
1,1-Dichloroethane	ND	ug/l	1.5					
Chloroform	ND	ug/l	1.5					
Carbon tetrachloride	ND	ug/l	1.0					
1,2-Dichloropropane	ND	ug/l	3.5					
Dibromochloromethane	ND	ug/l	1.0					
1,1,2-Trichloroethane	ND	ug/l	1.5					
Tetrachloroethene	ND	ug/l	1.0					
Chlorobenzene	ND	ug/l	3.5					
Trichlorofluoromethane	ND	ug/l	5.0					
1,2-Dichloroethane	ND	ug/l	1.0					
1,1,1-Trichloroethane	ND	ug/l	1.0					
Bromodichloromethane	ND	ug/l	1.0					
trans-1,3-Dichloropropene	ND	ug/l	1.0					
cis-1,3-Dichloropropene	ND	ug/l	1.0					
1,1-Dichloropropene	ND	ug/l	5.0					
Bromoform	ND	ug/l	1.0					
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0					
Benzene	ND	ug/l	1.0					
Toluene	ND	ug/l	1.5					
Ethylbenzene	ND	ug/l	1.0					
Chloromethane	ND	ug/l	10.					
Bromomethane	ND	ug/l	2.0					
Vinyl chloride	ND	ug/l	2.0					
Chloroethane	ND	ug/l	2.0					
1,1-Dichloroethene	ND	ug/l	1.5					
trans-1,2-Dichloroethene	ND	ug/l	1.5					
Trichloroethene	ND	ug/l	1.0					
1,2-Dichlorobenzene	ND	ug/l	5.0					
1,3-Dichlorobenzene	ND	ug/l	5.0					
1,4-Dichlorobenzene	ND	ug/l	5.0					
Methyl tert butyl ether	ND	ug/l	4.0					
p/m-Xylene	ND	ug/l	1.0					
o-Xylene	ND	ug/l	1.0					
cis-1,2-Dichloroethene	ND	ug/l	1.0					
Dibromomethane	ND	ug/l	10.					
1,4-Dichlorobutane	ND	ug/l	10.					
Iodomethane	ND	ug/l	10.					
1,2,3-Trichloropropane	ND	ug/l	10.					
Styrene	ND	ug/l	1.0					
Dichlorodifluoromethane	ND	ug/l	10.					
Acetone	ND	ug/l	10.					

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0011215

Continued

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP	ANALYSIS	ID
Blank Analysis for sample(s) 01-02								
Volatile Organics by GC/MS 8260 continued				1	8260B		07-Dec	BT
Carbon disulfide	ND	ug/l	10.					
2-Butanone	ND	ug/l	10.					
Vinyl acetate	ND	ug/l	10.					
4-Methyl-2-pentanone	ND	ug/l	10.					
2-Hexanone	ND	ug/l	10.					
Ethyl methacrylate	ND	ug/l	10.					
Acrolein	ND	ug/l	25.					
Acrylonitrile	ND	ug/l	10.					
Bromochloromethane	ND	ug/l	5.0					
Tetrahydrofuran	ND	ug/l	20.					
2,2-Dichloropropane	ND	ug/l	5.0					
1,2-Dibromoethane	ND	ug/l	5.0					
1,3-Dichloropropane	ND	ug/l	5.0					
1,1,1,2-Tetrachloroethane	ND	ug/l	5.0					
Bromobenzene	ND	ug/l	5.0					
n-Butylbenzene	ND	ug/l	5.0					
sec-Butylbenzene	ND	ug/l	5.0					
tert-Butylbenzene	ND	ug/l	5.0					
o-Chlorotoluene	ND	ug/l	5.0					
p-Chlorotoluene	ND	ug/l	5.0					
1,2-Dibromo-3-chloropropane	ND	ug/l	5.0					
Hexachlorobutadiene	ND	ug/l	5.0					
Isopropylbenzene	ND	ug/l	5.0					
p-Isopropyltoluene	ND	ug/l	5.0					
Naphthalene	ND	ug/l	5.0					
n-Propylbenzene	ND	ug/l	5.0					
1,2,3-Trichlorobenzene	ND	ug/l	5.0					
1,2,4-Trichlorobenzene	ND	ug/l	5.0					
1,3,5-Trimethylbenzene	ND	ug/l	5.0					
1,2,4-Trimethylbenzene	ND	ug/l	5.0					
trans-1,4-Dichloro-2-butene	ND	ug/l	5.0					
Ethyl ether	ND	ug/l	25.					
Surrogate Recovery								
1,2-Dichloroethane-d4	110.	%						
Toluene-d8	108.	%						
4-Bromofluorobenzene	104.	%						
Dibromofluoromethane	105.	%						

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.

LIMITATION OF LIABILITIES

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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.

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CHAIN OF CUSTODY RECORD

Job Number: 3626	Job Name: Simmons College	Date Received:	Date Due:

Boring No./ Sample No.	Sample ID (if composite)	Depth	Sample Type	No./Type of Containers	ANALYSIS REQUIRED
B-6(ow)			Water	2 VOA, 1 Plastic	VOC 8260, dissolved Lead
B-1(ow)			-"-	-"-	VOC 8260, dissolved Lead
					NOTE
					RCGW-2 Standard

Notes: ~~Please get us results as soon as possible~~
Standard TAT

Relinquished By:	Date/Time: 12/4/00	Received By:	12/5/00 - 3:37
Relinquished By:	Date/Time: 12/5/00 1710	Received By:	

Coc