

ATTACHMENT B
SUMMARY OF GROUND WATER MONITORING DATA
(2003 TO 2004)

CHELSEA SANDWICH, LLC
NPDES PERMIT NO. MA0003280

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: Tighe & Bond

Laboratory Job Number: L0311730

Address: 4 Barlows Landing Road
Pocasset, MA 02559

Date Received: 17-NOV-2003

Attn: Mr. Rich Geisler

Date Reported: 20-NOV-2003

Project Number: 32-33494

Delivery Method: Client

Site: GLOBAL CHELSEA

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0311730-01	INFLUENT	CHELSEA, MA
L0311730-02	EFFLUENT	CHELSEA, MA
L0311730-03	TRIP BLANK	CHELSEA, MA

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized by: Scott McLean
This document electronically signed

ALPHA ANALYTICAL LABORATORIES
NARRATIVE REPORT

Laboratory Job Number: L0311730

PAH

L0311730-01 has elevated limits of detection due to the 10x dilution required by the elevated concentrations of target compounds in the sample.

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

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

Laboratory Sample Number: L0311730-01

Date Collected: 17-NOV-2003 12:40

Sample Matrix: INFLUENT

Date Received : 17-NOV-2003

Sample Matrix: WATER

Date Reported : 20-NOV-2003

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 4-Amber,2-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Turbidity	140	NTU	0.20	30 2130B		1117 17:00	LK
Color, Apparent	360	A.P.C.U.	100	30 2120B		1117 17:00	LK
Solids, Total Suspended	36.	mg/l	5.0	30 2540D		1119 13:50	DT
Volatile Organics by GC/MS 8260							
Methylene chloride	ND	ug/l	5.0	1 8260B		1118 12:28	RY
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				
1,2-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	24.	ug/l	0.50				
Toluene	1.7	ug/l	0.75				
Ethylbenzene	0.74	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				

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

CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0311730-01
INFLUENT

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatiles Organics by GC/MS 8260 continued							
p/m-Xylene	6.2	ug/l	0.50	1 8260B		1118 12-28 87	
o-Xylene	1.8	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	26.	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	50.	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	1.3	ug/l	0.50				
sec-Butylbenzene	1.7	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	6.3	ug/l	0.50				
p-Isopropyltoluene	ND	ug/l	0.50				
Naphthalene	4.5	ug/l	2.5				
n-Propylbenzene	4.1	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 (s)	Recovery					QC Criteria	
1,2-Dichloroethane-d4	93.0	%					
Toluene-d8	100.	%					
4-Bromofluorobenzene	103.	%					
Dibromofluoromethane	90.0	%					

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0311730-01
INFLUENT

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
PAH by GC/MS SIM 8270M							
Acenaphthene	25.	ug/l	2.0	1 8270C-M	1119 14 10	1128 10 38	HL
2-Chloronaphthalene	ND	ug/l	2.0				
Fluoranthene	7.7	ug/l	2.0				
Naphthalene	ND	ug/l	2.0				
Benzo (a) anthracene	ND	ug/l	2.0				
Benzo (a) pyrene	ND	ug/l	2.0				
Benzo (b) fluoranthene	ND	ug/l	2.0				
Benzo (k) fluoranthene	ND	ug/l	2.0				
Chrysene	ND	ug/l	2.0				
Acenaphthylene	ND	ug/l	2.0				
Anthracene	4.7	ug/l	2.0				
Benzo (ghi) perylene	ND	ug/l	2.0				
Fluorene	10.	ug/l	2.0				
Phenanthrene	2.8	ug/l	2.0				
Dibenzo (a,h) anthracene	ND	ug/l	2.0				
Indeno (1,2,3-cd) Pyrene	ND	ug/l	2.0				
Pyrene	6.0	ug/l	2.0				
1-Methylnaphthalene	34.	ug/l	2.0				
2-Methylnaphthalene	ND	ug/l	2.0				
Perylene	ND	ug/l	2.0				
Biphenyl	ND	ug/l	2.0				
Benzo (e) Pyrene	ND	ug/l	2.0				
Surrogate (s)	Recovery						QC Criteria
Nitrobenzene-d5	89.0	%					23-120
2-Fluorobiphenyl	97.0	%					43-120
4-Terphenyl-d14	96.0	%					33-120
Hydrocarbon Scan by GC 8100M							
Mineral Spirits	ND	mg/l	0.10	1 8100M	1118 14 45	1119 23 20	JB
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				
Transformer Oil	ND	mg/l	0.10				
Unknown Hydrocarbon	5.2	mg/l	0.10				
Surrogate (s)	Recovery						QC Criteria
o-Terphenyl	78.0	%					40-140

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

**ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS**

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

Laboratory Sample Number: L0311730-02

Date Collected: 17-NOV-2003 13:00

Sample Matrix: EFFLUENT

Date Received : 17-NOV-2003

Sample Matrix: WATER

Date Reported : 20-NOV-2003

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 4-Amber,2-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Turbidity	ND	NTU	0.20	30 2130B		1117 17:00	LK
Color, Apparent	6.0	A.P.C.U.	5.0	30 2120B		1117 17:00	LK
Solids, Total Suspended	ND	mg/l	5.0	30 2540D		1119 13:50	DT
Volatile Organics by GC/MS 8260				1 8260B		1119 10:54	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	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				

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0311730-02
EFFLUENT

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC/MS #260 continued							
p/m-Xylene	ND	ug/l	0.50	1 #260B		1119 10-54	BY
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				
1,1,2-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				
trans-1,4-Dichloro-2-butene	ND	ug/l	2.5				
Ethyl ether	ND	ug/l	2.5				
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	102.	%					
Toluene-d8	101.	%					
4-Bromofluorobenzene	108.	%					
Dibromofluoromethane	99.0	%					

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

CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0311730-02
EFFLUENT

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
PAH by GC/MS SIM B270M							
Acenaphthene	ND	ug/l	0.20	1 8270C-N	1119 14:10	1120 11:23	HL
2-Chloronaphthalene	ND	ug/l	0.20				
Fluoranthene	ND	ug/l	0.20				
Naphthalene	ND	ug/l	0.20				
Benzo(a)anthracene	ND	ug/l	0.20				
Benzo(a)pyrene	ND	ug/l	0.20				
Benzo(b)fluoranthene	ND	ug/l	0.20				
Benzo(k)fluoranthene	ND	ug/l	0.20				
Chrysene	ND	ug/l	0.20				
Acenaphthylene	ND	ug/l	0.20				
Anthracene	ND	ug/l	0.20				
Benzo(ghi)perylene	ND	ug/l	0.20				
Fluorene	ND	ug/l	0.20				
Phenanthrene	ND	ug/l	0.20				
Dibenzo(a,h)anthracene	ND	ug/l	0.20				
Indeno(1,2,3-cd)Pyrene	ND	ug/l	0.20				
Pyrene	ND	ug/l	0.20				
1-Methylnaphthalene	ND	ug/l	0.20				
2-Methylnaphthalene	ND	ug/l	0.20				
Perylene	ND	ug/l	0.20				
Biphenyl	ND	ug/l	0.20				
Benzo(e)Pyrene	ND	ug/l	0.20				
Surrogate(s)	Recovery			QC Criteria			
Nitrobenzene-d5	55.0	%		23-120			
2-Fluorobiphenyl	55.0	%		43-120			
4-Terphenyl-d14	67.0	%		33-120			

Hydrocarbon Scan by GC 8100M							
Mineral Spirits	ND	mg/l	0.10	1 8100M	1119 14:45	1119 23:24	JB
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				
Transformer Oil	ND	mg/l	0.10				
Unknown Hydrocarbon	ND	mg/l	0.10				
Surrogate(s)	Recovery			QC Criteria			
o-Terphenyl	81.0	%		40-140			

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

ALPHA ANALYTICAL LABORATORIES
 CERTIFICATE OF ANALYSIS

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

Laboratory Sample Number: L0311730-03

Date Collected: 17-NOV-2003 08:00

Sample Matrix: TRIP BLANK

Date Received : 17-NOV-2003

WATER

Date Reported : 20-NOV-2003

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC/MS 8260							
Methylene chloride	ND	ug/l	5.0	1 8260B			1118 11-52 RT
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				
1,1,2-Dichloroethane	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
1,1-Dichloropropene	ND	ug/l	2.5				
Bromoform	ND	ug/l	2.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Benzene	ND	ug/l	0.50				
Toluene	ND	ug/l	0.75				
Ethylbenzene	ND	ug/l	0.50				
Chloromethane	ND	ug/l	2.5				
Bromomethane	ND	ug/l	1.0				
Vinyl chloride	ND	ug/l	1.0				
Chloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.75				
Trichloroethene	ND	ug/l	0.50				
1,2-Dichlorobenzene	ND	ug/l	2.5				
1,3-Dichlorobenzene	ND	ug/l	2.5				
1,4-Dichlorobenzene	ND	ug/l	2.5				
Methyl tert butyl ether	ND	ug/l	1.0				
p/m-Xylene	ND	ug/l	0.50				
o-Xylene	ND	ug/l	0.50				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
Dibromomethane	ND	ug/l	5.0				
1,4-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

CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0311730-03
 TRIP BLANK

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC/MS 8260 continued				1 8260B		1118 11.52	1118
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	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				
trans-1,4-Dichloro-2-butene	ND	ug/l	2.5				
Ethyl ether	ND	ug/l	2.5				
Surrogate (s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	100.	%					
Toluene-d8	98.0	%					
4-Bromofluorobenzene	104.	%					
Dibromofluoromethane	98.0	%					

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

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS

Laboratory Job Number: L0311730

Parameter	Value 1	Value 2	Units	RPD	RPD Limits
Turbidity for sample(s) 01-02 (L0311730-01, WG156562)					
Turbidity	140	140	NTU	0	
Color, Apparent for sample(s) 01-02 (L0311730-01, WG156559)					
Color, Apparent	360	360	A.P.C.U.	0	
Hydrocarbon Scan by GC 8100M for sample(s) 01-02 (L0311730-01, WG156636)					
Mineral Spirits	ND	ND	mg/l	NC	40
Gasoline	ND	ND	mg/l	NC	40
Fuel Oil #2/Diesel	ND	ND	mg/l	NC	40
Fuel Oil #4	ND	ND	mg/l	NC	40
Fuel Oil #6	ND	ND	mg/l	NC	40
Motor Oil	ND	ND	mg/l	NC	40
Kerosene	ND	ND	mg/l	NC	40
Transformer Oil	ND	ND	mg/l	NC	40
Unknown Hydrocarbon	5.2	5.2	mg/l	0	40
Surrogate (s)	Recovery				
o-Terphenyl	78.0	82.0	%	5	QC Criteria 40-140

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

Laboratory Job Number: L0311730

Parameter	% Recovery	QC Criteria
Turbidity LCS for sample(s) 01-02 (WG156562)		
Turbidity	110	
Volatile Organics by GC/MS 8260 LCS for sample(s) 01, 03 (WG156600)		
Chlorobenzene	94	
Benzene	99	
Toluene	98	
1,1-Dichloroethene	93	
Trichloroethene	100	
Surrogate (s)		
1,2-Dichloroethane-d4	100	
Toluene-d8	99	
4-Bromofluorobenzene	101	
Dibromofluoromethane	101	
Volatile Organics by GC/MS 8260 LCS for sample(s) 02 (WG156600)		
Chlorobenzene	97	
Benzene	103	
Toluene	100	
1,1-Dichloroethene	99	
Trichloroethene	103	
Surrogate (s)		
1,2-Dichloroethane-d4	102	
Toluene-d8	100	
4-Bromofluorobenzene	101	
Dibromofluoromethane	102	
PAH by GC/MS SIM 8270M LCS for sample(s) 01-02 (WG156867)		
Acenaphthene	48	46-118
2-Chloronaphthalene	46	
Fluoranthene	65	
Anthracene	46	
Pyrene	72	26-127
Surrogate (s)		
Nitrobenzene-d5	43	23-120
2-Fluorobiphenyl	53	43-120
4-Terphenyl-d14	68	33-120
PAH by GC/MS SIM 8270M LCS for sample(s) 01-02 (WG156867)		
Acenaphthene	50	46-118
2-Chloronaphthalene	52	
Fluoranthene	71	
Anthracene	47	
Pyrene	75	26-127

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0311730

Continued

Parameter % Recovery QC Criteria

PAH by GC/MS SIM 8270M LCE for sample(s) 01-02 (WG156867)

Surrogate(s)		
Nitrobenzene-d5	71	23-120
2-Fluorobiphenyl	63	43-120
4-Terphenyl-d14	73	33-120

Hydrocarbon Scan by GC 8100M LCS for sample(s) 01-02 (WG156636)

Petroleum Spike	113	40-140
Surrogate(s)		
o-Terphenyl	95	40-140

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH MS/MSD ANALYSIS

Laboratory Job Number: L0311730

Parameter	MS %	MSD %	RPD	RPD Limit	MS/MSD Limits
Volatile Organics by GC/MS 8250 for sample(s) 01-03 (L0311698-01, W0156600)					
Chlorobenzene	84	83	2		
Benzene	90	89	1		
Toluene	88	86	2		
1,1-Dichloroethene	84	84	0		
Trichloroethene	94	92	2		
Surrogate(s)					
1,2-Dichloroethane-d4	98	97	1		
Toluene-d8	105	104	1		
4-Bromofluorobenzene	103	103	0		
Dibromofluoromethane	100	99	1		

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0311730

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 01-02 (WG156562-3)							
Turbidity	1.1	NTU	0.20	30 2130B		1117	17:00 LK
Blank Analysis for sample(s) 01-02 (WG156717-1)							
Solids, Total Suspended	ND	mg/l	5.0	30 2540D		1119	13:50 DT
Blank Analysis for sample(s) 01-03 (WG156600-6)							
Volatile Organics by GC/MS 8260							
Methylene chloride	ND	ug/l	5.0	1 4250B		1118	09:57 SY
1,1-Dichloroethane	ND	ug/l	0.75				
Chloroform	ND	ug/l	0.75				
Carbon tetrachloride	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	1.8				
Dibromochloromethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.75				
Tetrachloroethene	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	2.5				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
Bromodichloromethane	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
1,1-Dichloropropene	ND	ug/l	2.5				
Bromoform	ND	ug/l	2.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Benzene	ND	ug/l	0.50				
Toluene	ND	ug/l	0.75				
Ethylbenzene	ND	ug/l	0.50				
Chloromethane	ND	ug/l	2.5				
Bromomethane	ND	ug/l	1.0				
Vinyl chloride	ND	ug/l	1.0				
Chloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.75				
Trichloroethene	ND	ug/l	0.50				
1,2-Dichlorobenzene	ND	ug/l	2.5				
1,3-Dichlorobenzene	ND	ug/l	2.5				
1,4-Dichlorobenzene	ND	ug/l	2.5				
Methyl tert butyl ether	ND	ug/l	1.0				
p/m-Xylene	ND	ug/l	0.50				
o-Xylene	ND	ug/l	0.50				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
Dibromomethane	ND	ug/l	5.0				
1,4-Dichlorobutane	ND	ug/l	5.0				
Iodomethane	ND	ug/l	5.0				
1,2,3-Trichloropropane	ND	ug/l	5.0				

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

Laboratory Job Number: L0311730

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 01, 03 (WGL56600-6)							
Volatile Organics by GC/MS 8260 continued							
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	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				
trans-1,4-Dichloro-2-butene	ND	ug/l	2.5				
Ethyl ether	ND	ug/l	2.5				

Surrogate (s)	Recovery		QC Criteria
1,2-Dichloroethane-d4	107.	%	
Toluene-d8	100.	%	
4-Bromofluorobenzene	103.	%	
Dibromofluoromethane	100.	%	

Blank Analysis for sample(s) 02 (WGL56600-8)							
Volatile Organics by GC/MS 8260							
Methylene chloride	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	0.75				
Chloroform	ND	ug/l	0.75				

ALPHA ANALYTICAL LABORATORIES
 QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0311730

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 02 (WGL56600-8)							
Volatile Organics by GC/MS 8250 continued							
Carbon tetrachloride	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	1.8				
Dibromochloromethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.75				
Tetrachloroethene	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	2.5				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
Bromodichloromethane	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
1,1-Dichloropropene	ND	ug/l	2.5				
Bromoform	ND	ug/l	2.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Benzene	ND	ug/l	0.50				
Toluene	ND	ug/l	0.75				
Ethylbenzene	ND	ug/l	0.50				
Chloromethane	ND	ug/l	2.5				
Bromomethane	ND	ug/l	1.0				
Vinyl chloride	ND	ug/l	1.0				
Chloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.75				
Trichloroethene	ND	ug/l	0.50				
1,2-Dichlorobenzene	ND	ug/l	2.5				
1,3-Dichlorobenzene	ND	ug/l	2.5				
1,4-Dichlorobenzene	ND	ug/l	2.5				
Methyl tert butyl ether	ND	ug/l	1.0				
p/m-Xylene	ND	ug/l	0.50				
o-Xylene	ND	ug/l	0.50				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
Dibromomethane	ND	ug/l	5.0				
1,4-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				

ALPHA ANALYTICAL LABORATORIES
 QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0311730

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	

Blank Analysis for sample(s) 02 (WG156600-8)

Volatile Organics by GC/MS 8260 continued 1 8260B 1119 10:11 KY

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	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				
trans-1,4-Dichloro-2-butene	ND	ug/l	2.5				
Ethyl ether	ND	ug/l	2.5				

Surrogate (s)	Recovery		QC Criteria
1,2-Dichloroethane-d4	102.	%	
Toluene-d8	102.	%	
4-Bromofluorobenzene	104.	%	
Dibromofluoromethane	99.0	%	

Blank Analysis for sample(s) 01-02 (WG156867-1)

PAH by GC/MS SIM 8270M 1 8270C-M 1119 14:10 1126 08:23 HL

Acenaphthene	ND	ug/l	0.20				
2-Chloronaphthalene	ND	ug/l	0.20				
Fluoranthene	ND	ug/l	0.20				
Naphthalene	ND	ug/l	0.20				
Benzo (a) anthracene	ND	ug/l	0.20				
Benzo (a) pyrene	ND	ug/l	0.20				
Benzo (b) fluoranthene	ND	ug/l	0.20				
Benzo (k) fluoranthene	ND	ug/l	0.20				
Chrysene	ND	ug/l	0.20				
Acenaphthylene	ND	ug/l	0.20				
Anthracene	ND	ug/l	0.20				
Benzo (ghi) perylene	ND	ug/l	0.20				
Fluorene	ND	ug/l	0.20				
Phenanthrene	ND	ug/l	0.20				

ALPHA ANALYTICAL LABORATORIES
 QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0311730

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	

Blank Analysis for sample(s) 01-02 (NG156867-1)

PAH by GC/MS SIM 8270M continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Dibenzo (a, h) anthracene	ND	ug/l	0.20	8270C-M	1119 14:30	1120 08:23	HL
Indeno (1, 2, 3-cd) Pyrene	ND	ug/l	0.20				
Pyrene	ND	ug/l	0.20				
1-Methylnaphthalene	ND	ug/l	0.20				
2-Methylnaphthalene	ND	ug/l	0.20				
Perylene	ND	ug/l	0.20				
Biphenyl	ND	ug/l	0.20				
Benzo (e) Pyrene	ND	ug/l	0.20				

Surrogate(s)	Recovery		QC Criteria
Nitrobenzene-d5	55.0	%	23-120
2-Fluorobiphenyl	55.0	%	43-120
4-Terphenyl-d14	72.0	%	33-120

Blank Analysis for sample(s) 01-02 (NG156636-1)

Hydrocarbon Scan by GC 8100M

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Mineral Spirits	ND	mg/l	0.10	8100M	1118 14:45	1119 19:10	JB
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				
Transformer Oil	ND	mg/l	0.10				
Unknown Hydrocarbon	ND	mg/l	0.10				

Surrogate(s)	Recovery		QC Criteria
o-Terphenyl	97.0	%	40-140

**ALPHA ANALYTICAL LABORATORIES
ADDENDUM I**

REFERENCES

1. Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.
30. Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

GLOSSARY OF TERMS AND SYMBOLS

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

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

LIMITATION OF LIABILITIES

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

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



CHAIN OF CUSTODY

PAGE _____ OF _____

Date Rec'd In Lab: 11-17-03

ALPHA Job #: L0311730

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

Project Information

Project Name: Global Cheltes

Project Location: Cheltes mt

Project #: 32-33494

Project Manager: Rich Geisler

ALPHA Quote #:

Turn-Around Time

 Standard RUSH (only confirmed if pre-approved!)

Date Due: 11/20/03

Time: 72HR

Report Information - Data Deliverables

 FAX EMAIL ADEx Add'l Deliverables

Billing Information

 Same as Client info

PO #:

Client Information

Client: Tigle + Baird

Address: 324 Grove St

Lowestown MA

Phone: 508-734-2201

Fax:

Email:

These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

Regulatory Requirements/Report Limits

State/Fed Program

MA MCP

Criteria

GW-1

MCP PRESUMPTIVE CERTAINTY - THESE QUESTIONS MUST BE ANSWERED

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

ANALYSIS

TSS
Color, Turbidity
TPH 8100
PAH 8270
VOC 8260

SAMPLE HANDLING

Filtration

 Done Not needed Lab to do

Preservation

 Lab to do

(Please specify below)

Sample Specific Comments

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	ANALYSIS					Sample Specific Comments
		Date	Time			TSS	Color, Turbidity	TPH 8100	PAH 8270	VOC 8260	
730	1	11/17/03	1240	GW	JP6	X	X	X	X	X	
	2	11/17/03	100	GW	JP6	X	X	X	X	X	
	3	11/17/03	0800							X	

QUESTIONS ABOVE MUST BE ANSWERED FOR PRESUMPTIVE CERTAINTY

IS YOUR PROJECT MCP?

Container Type P P G G U

Preservative A A A A R

Relinquished By:

Date/Time

Received By:

Date/Time

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 Client Terms. See reverse side.

O)

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O)