TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

RECEIVED
JUN 27 2008
TIGHE & BOND

ANALYTICAL REPORT

Job Number: 360-16733-1

Job Description: A-0308

For:
Tighe & Bond
53 Southampton Road
Westfield, MA 01085

Attention: Jeffery Thelen

Designee for
Lisa A Worthington
Project Manager II
lisa.worthington@testamericainc.com
06/27/2008
Revision: 1

The test results in this report meet all NELAC requirements for accredited parameters. Any exceptions to NELAC requirements are noted in this report. Pursuant to NELAC, this report may not be reproduced except in full, and with written approval from the laboratory. TestAmerica Westfield Certifications and Approvals: MADEP MA014, RIDOH57, CTDPH 0494, VT DECWSD, NH DES 253903-A, NELAP FL E87912 TOX, NELAP NJ MA008 TOX, NELAP NY 10843, NY DOH 10843.

TestAmerica Laboratories, Inc.
TestAmerica Westfield Westfield Executive Park, 53 Southampton Road, Westfield, MA 01085
Tel (413) 572-4000 Fax (413) 572-3707 www.testamericainc.com

ACCREDITED IN ACCORDANCE WITH nelac

REVISED

Job Narrative
360-J16733-1

At the request of the client, 1,4-Dioxane was added to the SW846 8260B analysis.

GC/MS VOA
Method(s) 8260B: J16733(1),B32681

Sample 360-16733-1 was analyzed as a high level due to the presence of nontarget compounds. The non target compounds do not meet the criteria for TIC reporting and are therefore no listed in this report.

Metals
Method(s) 6010B: The method blank for batch 32463 contained Barium, Copper, Iron and Zinc above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

No other analytical or quality issues were noted.

General Chemistry
No analytical or quality issues were noted.

METHOD SUMMARY

Client: Tighe & Bond

Job Number: 360-16733-1

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Volatile Organic Compounds by GC/MS	TAL WFD	SW846 8260B	
Closed System Purge & Trap/Field Preservation	TAL WFD		SW846 5035
Inductively Coupled Plasma - Atomic Emission Spectrometry	TAL WFD	SW846 6010B	
Acid Digestion of Sediments, Sludges, and Soils	TAL WFD		SW846 3050B
Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)	TAL WFD	SW846 7471A	
Mercury in Solid or Semi-Solid Waste (Manual Cold	TAL WFD		SW846 7471A
Anions by Ion Chromatography	TAL WFD	MCAWW 300.0	
Anions by Ion Chromatography	TAL WFD	MCAWW 300.0	
Deionized Water Leaching Procedure (Routine)	TAL WFD		ASTM DI Leach
Deionized Water Leaching Procedure (Routine)	TAL WFD		ASTM DI Leach
Chemical Oxygen Demand (Colorimetric, Automated; Manual)	TAL WFD	MCAWW 410.4	
Deionized Water Leaching Procedure (Routine)	TAL WFD		ASTM DI Leach
Total and Amenable Cyanide (Automated Colorimetric, with Off-Line Distillation)	TAL WFD	SW846 9012A	
Total and Amenable Cyanide (Auto. Colorimetric	TAL WFD		SW846 9012A
Alkalinity, Titration Method	TAL WFD	SM SM 2320B	
Deionized Water Leaching Procedure (Routine)	TAL WFD		ASTM DI Leach

Lab References:

TAL WFD = TestAmerica Westfield

Method References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater",

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: Tighe & Bond

Job Number: 360-16733-1

Method	Analyst	Analyst ID
SW846 8260B	Rouleau, Catherine M	CMR
SW846 6010B	Balicki, Charles W	CWB
SW846 7471A	Balicki, Charles W	CWB
MCAWW 300.0	Lalashius, Andrew L	ALL
MCAWW 410.4	Sadowski, Scott	SS
SW846 9012A	Lalashius, Andrew L	ALL
EPA PercentMoisture	Nasiatka, Ellen M	EMN
SM SM 2320B	Emerich, Rich W	RWE

SAMPLE SUMMARY

Client: Tighe & Bond

Job Number: 360-16733-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
360-16733-1	Sed-7	Solid	05/27/2008 1040	05/27/2008 1420

Jeffery Thelen
Tighe & Bond
53 Southampton Road
Westfield, MA 01085

Job Number: 360-16733-1

Client Sample ID: **Sed-7**
Lab Sample ID: **360-16733-1**

Date Sampled: 05/27/2008 1040
Date Received: 05/27/2008 1420
Client Matrix: Solid
Percent Solids: 64

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
Method: 8260B		Date Analyzed:	06/03/2008 1814		
Prep Method: 5035		Date Prepared:	06/03/2008 1053		
1,1,1,2-Tetrachloroethane	ND	ug/Kg	150	380	1.0
1,1,1-Trichloroethane	ND	ug/Kg	150	380	1.0
1,1,2,2-Tetrachloroethane	ND	ug/Kg	150	380	1.0
1,1,2-Trichloroethane	ND	ug/Kg	150	380	1.0
1,1-Dichloroethane	ND	ug/Kg	150	380	1.0
1,1-Dichloroethene	ND	ug/Kg	150	380	1.0
1,1-Dichloropropene	ND	ug/Kg	150	380	1.0
1,2,3-Trichlorobenzene	ND	ug/Kg	150	380	1.0
1,2,3-Trichloropropane	ND	ug/Kg	220	380	1.0
1,2,4-Trichlorobenzene	ND	ug/Kg	150	380	1.0
1,2,4-Trimethylbenzene	ND	ug/Kg	150	380	1.0
1,2-Dibromo-3-Chloropropane	ND	ug/Kg	270	760	1.0
1,2-Dichlorobenzene	ND	ug/Kg	150	380	1.0
1,2-Dichloroethane	ND	ug/Kg	150	380	1.0
1,2-Dichloropropane	ND	ug/Kg	150	380	1.0
1,3,5-Trimethylbenzene	ND	ug/Kg	150	380	1.0
1,3-Dichlorobenzene	ND	ug/Kg	150	380	1.0
1,3-Dichloropropane	ND	ug/Kg	150	380	1.0
1,4-Dichlorobenzene	ND	ug/Kg	150	380	1.0
2,2-Dichloropropane	ND	ug/Kg	150	380	1.0
2-Chlorotoluene	ND	ug/Kg	150	380	1.0
2-Hexanone	ND	ug/Kg	780	3800	1.0
4-Chlorotoluene	ND	ug/Kg	150	380	1.0
Acetone	ND	ug/Kg	2700	38000	1.0
Benzene	ND	ug/Kg	150	380	1.0
Bromobenzene	ND	ug/Kg	150	380	1.0
Bromochloromethane	ND	ug/Kg	150	380	1.0
Bromodichloromethane	ND	ug/Kg	150	380	1.0
Bromoform	ND	ug/Kg	150	380	1.0
Bromomethane	ND	ug/Kg	150	760	1.0
Carbon tetrachloride	ND	ug/Kg	150	380	1.0
Chlorobenzene	ND	ug/Kg	150	380	1.0
Chlorodibromomethane	ND	ug/Kg	150	380	1.0
Chloroethane	ND	ug/Kg	150	760	1.0
Chloroform	ND	ug/Kg	150	380	1.0
Chloromethane	ND	ug/Kg	150	760	1.0
cis-1,2-Dichloroethene	ND	ug/Kg	150	380	1.0
cis-1,3-Dichloropropene	ND	ug/Kg	150	380	1.0
Dibromomethane	ND	ug/Kg	150	380	1.0

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Client Sample ID: **Sed-7**
Lab Sample ID: **360-16733-1**

Date Sampled: 05/27/2008 1040
Date Received: 05/27/2008 1420
Client Matrix: Solid
Percent Solids: 64

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Ethylbenzene	ND		ug/Kg	150	380	1.0
Ethylene Dibromide	ND		ug/Kg	150	380	1.0
Hexachlorobutadiene	ND		ug/Kg	150	380	1.0
Isopropylbenzene	ND		ug/Kg	150	380	1.0
Methyl Ethyl Ketone	ND		ug/Kg	1000	3800	1.0
methyl isobutyl ketone	ND		ug/Kg	790	3800	1.0
Methyl tert-butyl ether	ND		ug/Kg	150	380	1.0
Methylene Chloride	ND		ug/Kg	740	760	1.0
m-Xylene & p-Xylene	ND		ug/Kg	150	760	1.0
Naphthalene	ND		ug/Kg	150	3800	1.0
n-Butylbenzene	ND		ug/Kg	150	380	1.0
N-Propylbenzene	ND		ug/Kg	150	380	1.0
o-Xylene	ND		ug/Kg	150	380	1.0
p-Isopropyltoluene	ND		ug/Kg	150	380	1.0
sec-Butylbenzene	ND		ug/Kg	150	380	1.0
Styrene	ND		ug/Kg	150	380	1.0
tert-Butylbenzene	ND		ug/Kg	150	380	1.0
Tetrachloroethene	ND		ug/Kg	150	380	1.0
Toluene	ND		ug/Kg	150	380	1.0
trans-1,2-Dichloroethene	ND		ug/Kg	150	380	1.0
trans-1,3-Dichloropropene	ND		ug/Kg	150	380	1.0
Trichloroethene	ND		ug/Kg	150	380	1.0
Trichlorofluoromethane	ND	*	ug/Kg	150	760	1.0
Vinyl chloride	ND		ug/Kg	150	380	1.0
1,4-Dioxane	ND	*	ug/Kg	5000	38000	1.0

Surrogate			Acceptance Limits
4-Bromofluorobenzene	104	%	70 - 130
Dibromofluoromethane	106	%	70 - 130
Toluene-d8 (Surr)	95	%	70 - 130

Tentatively Identified Compounds			Cas Number	RT	
Tentatively Identified Compound	None	ug/L		0.00	1.0

Method: 6010B Date Analyzed: 05/28/2008 1519
Prep Method: 3050B Date Prepared: 05/28/2008 0827

Silver	ND		mg/Kg	0.083	0.92	1.0
Arsenic	1.2	J	mg/Kg	0.15	1.8	1.0
Barium	19	B	mg/Kg	0.031	0.92	1.0
Cadmium	0.16	J	mg/Kg	0.0079	0.37	1.0
Chromium	9.3		mg/Kg	0.13	0.92	1.0
Copper	11	B	mg/Kg	0.14	1.8	1.0

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Job Number: 360-16733-1

Client Sample ID: **Sed-7**
Lab Sample ID: **360-16733-1**

Date Sampled: 05/27/2008 1040
Date Received: 05/27/2008 1420
Client Matrix: Solid
Percent Solids: 64

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Iron	8700	B	mg/Kg	1.2	9.2	1.0
Manganese	72		mg/Kg	0.18	1.8	1.0
Lead	6.7		mg/Kg	0.081	0.92	1.0
Selenium	ND		mg/Kg	0.50	0.92	1.0
Zinc	29	B	mg/Kg	0.25	4.6	1.0

Method: 7471A Date Analyzed: 05/29/2008 1625
Prep Method: 7471A Date Prepared: 05/29/2008 1200

Mercury	ND		mg/Kg	0.029	0.065	1.0

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Job Number: 360-16733-1

Client Sample ID: **Sed-7**
Lab Sample ID: **360-16733-1**

Date Sampled: 05/27/2008 1040
Date Received: 05/27/2008 1420
Client Matrix: Solid
Percent Solids: 64

Analyte	Result/Qualifier	Unit	RL	RL	Dilution
Method: Soluble-300.0		Date Analyzed:		05/30/2008 2120	
Chloride	ND	mg/Kg	31	31	1.0
Nitrate as N	ND	mg/Kg	7.8	7.8	1.0
Sulfate	ND	mg/Kg	62	62	1.0
Method: Soluble-410.4		Date Analyzed:		06/04/2008 0921	
Chemical Oxygen Demand	ND	mg/Kg	310	310	1.0
Method: 9012A		Date Analyzed:		06/04/2008 1132	
Prep Method: 9012A		Date Prepared:		06/03/2008 1415	
Cyanide, Total	ND	mg/Kg	1.5	1.5	1.0
Method: Soluble-SM 2320B		Date Analyzed:		06/04/2008 1530	
Alkalinity	20	mg/Kg	0.60	0.60	1.0

DATA REPORTING QUALIFIERS

Client: Tighe & Bond

Job Number: 360-16733-1

Lab Section	Qualifier	Description
GC/MS VOA		
	*	LCS or LCSD exceeds the control limits
	*	RPD of the LCS and LCSD exceeds the control limits
Metals		
	B	Compound was found in the blank and sample.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Login Sample Receipt Check List

Client: Tighe & Bond

Job Number: 360-16733-1

Login Number: 16733
Creator: Rinard, Kimberley A
List Number: 1

List Source: TestAmerica Westfield

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	3.5 C
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	COC does not specify metals
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

SAMPLE COLLECTION DATA: SOILS AND SOLIDS

Client: Tighe + Bond
Westfield, MA

Job #/ Project Manager A-0308

Collector Signature :

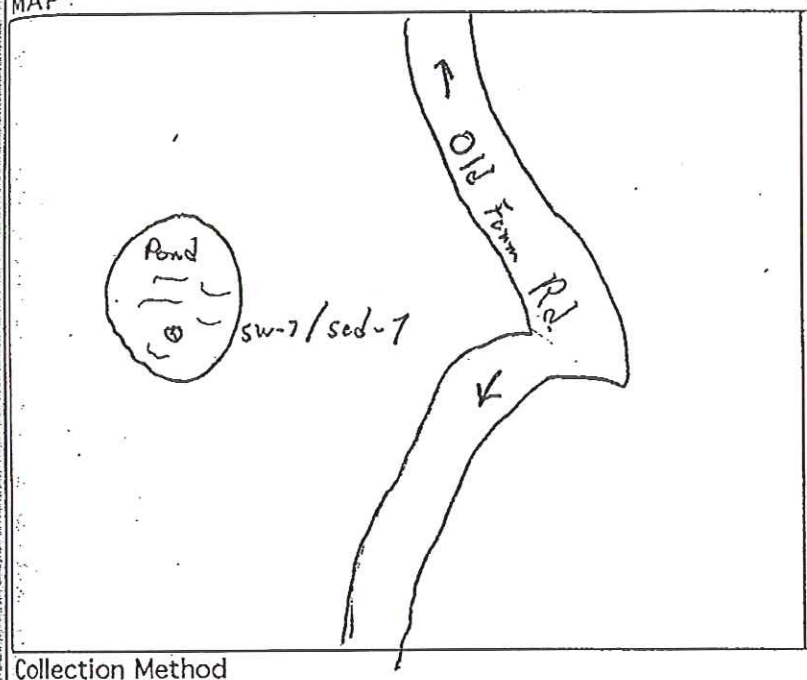
Contact: JJT

Location: Sed-7

Date: 5/25/08 Time: 1040 Weather: Sunny 80°F

Site Descrip.: Amherst, MS

MAP



COMMENTS

- sample taken from SW-7 location on side of pond.

Collection Method

Equipment: Hand Auger ____ Plastic Scoop ____ Stan Steel Scoop ✓
Coliwasa ____ Thief ____ Other ____

Equipment Decontamination: Organics ✓ Metals ✓ Biological ____

Sampl Type: ___ Composite
✓ Grab

Depth (s) approx 5-6"

Sample Container

Analysis Requested

See page 62 for containers analysis

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Chain of Custody Form

•53 Southampton Road
Westfield, MA 01085
(P) 413-572-4000
(F) 413-572-3707
Westfield

•148 Rangeway Road
N. Billerica, MA 01862
(P) 978-667-1400
(F) 978-667-7871
Boston - Service Center

Client: Fisher Bond
Address: 53 Southampton Rd, Westfield, Ma
Phone: 413-562-1100 Fax:

Client Project #: A-0306
Site ID & State: Amherst, Ma
Reports Sent To: Jeff Thelen
Email: JThelen@fisherbond.com Email Rpt: ☐

Job# 360-16033 Quote# PO#

Shaded areas for office use
Invoice same as Report to? ☐
If Invoice contact or address different, note in Comments

Comments (Special Instructions)

Please print legibly. If the analytical requests are not clearly defined on the chain-of-custody, the turnaround time will begin after all questions have been satisfactorily answered.

Requested Turnaround Time (PLEASE SPECIFY)
STANDARD _____ RUSH _____ (Lab Approval Required)

Regulatory Programs/Presumptive Certainty/QC Forms
MADEP MCP ☐ GW1/S1 ☐ PWS DEP Forms ☐
CTDEP RCP ☐ CT RSR ☐ EDD Required ☐
QA Rpt: No QC ☐ Std QC Rpt ☐ CLP QC Rpt: ☐

500-series for drinking water
600-series for waste water, NPDES
6000-series for groundwater, soil, waste
8000-series for groundwater, soil, waste
Use comments section to further define.

Sample Type Codes: WW-Wastewater, DW-Drinking Water, SW-Surface Water, GW-Groundwater, LW Lab Water, A-Air, "Z"-Other (please specify)

Sample I.D.	Sample Type	Sampler's Initials	Date Time Collected	Grab	Comp.	# Containers	Plastic(P) or Glass(G)	Preservative: NaHSO4/MeOH	HNO3 to pH <2	H2SO4 to pH <2	HCl to pH <2	NaOH to pH >12	Na2S2O3	None / 4° C	524 / 624 / 8260	525 / 625 / 8270	PCB / Pest / Herbicide	EPH / VPH	DRO / GRO / ETPH	Metals (Please Specify)	Mercury	General Chemistry	Bacteriological	Toxicity
Sed-7	Sed	AM	5/27/08 1040	✓		5	6	X						X										

Comments:
- Soy, Alk, NO_3, Cl,
- T. Metals
- T. CN
- COD
- VOA 8260 + Acetone, MEK, MIBK, MTBE, xylenes

Page 13 of 13

Sampled by (print): Adam Marshall
Signature:

Cooler? (Y) N
MADEP Requirement: Samples Iced (Y) N

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
	5/27/08	1420		5/27/08	1420
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

Temp. @ receipt: 3.5°C °C
Preservation / pH checked? Y / (N)
By: _____ Date: 5/27/08

WESTFIELD

White = Lab file Yellow = Report copy Pink = Customer copy

TAL-8245(1007)

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

RECEIVED
JUN 27 2008
TIGHE & BOND

Job Number: 360-16716-1

Job Description: A-0308

For:
Tighe & Bond
53 Southampton Road
Westfield, MA 01085

Attention: Jeffery Thelen

Designee for
Lisa A Worthington
Project Manager II
lisa.worthington@testamericainc.com
06/27/2008
Revision: 1

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ACCREDITED IN ACCORDANCE WITH nelac

REVISED

Job Narrative
360-J16716-1

At the request of the client, 1,4-Dioxane was added to the SW846 8260B analysis.

Method 6010B: The method blank for batch 32405 contained Barium, Chromium, Iron and Zinc above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6010B: The following samples were diluted due to the abundance of the target analyte Iron: 360-16716-(4-7). Elevated reporting limits (RLs) are provided.

METHOD SUMMARY

Client: Tighe & Bond

Job Number: 360-16716-1

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Volatile Organic Compounds by GC/MS	TAL WFD	SW846 8260B	
Closed System Purge & Trap/Field Preservation	TAL WFD		SW846 5035
Inductively Coupled Plasma - Atomic Emission Spectrometry	TAL WFD	SW846 6010B	
Acid Digestion of Sediments, Sludges, and Soils	TAL WFD		SW846 3050B
Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)	TAL WFD	SW846 7471A	
Mercury in Solid or Semi-Solid Waste (Manual Cold	TAL WFD		SW846 7471A
Anions by Ion Chromatography	TAL WFD	MCAWW 300.0	
Anions by Ion Chromatography	TAL WFD	MCAWW 300.0	
Deionized Water Leaching Procedure (Routine)	TAL WFD		ASTM DI Leach
Deionized Water Leaching Procedure (Routine)	TAL WFD		ASTM DI Leach
Chemical Oxygen Demand (Colorimetric, Automated; Manual)	TAL WFD	MCAWW 410.4	
Deionized Water Leaching Procedure (Routine)	TAL WFD		ASTM DI Leach
Total and Amenable Cyanide (Automated Colorimetric, with Off-Line Distillation)	TAL WFD	SW846 9012A	
Total and Amenable Cyanide (Auto. Colorimetric	TAL WFD		SW846 9012A
Alkalinity, Titration Method	TAL WFD	SM SM 2320B	
Deionized Water Leaching Procedure (Routine)	TAL WFD		ASTM DI Leach

Lab References:

TAL WFD = TestAmerica Westfield

Method References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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Client: Tighe & Bond

Job Number: 360-16716-1

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SW846 6010B	Balicki, Charles W	CWB
SW846 7471A	Balicki, Charles W	CWB
MCAWW 300.0	Lalashius, Andrew L	ALL
MCAWW 410.4	Sadowski, Scott	SS
SW846 9012A	Lalashius, Andrew L	ALL
EPA PercentMoisture	Nasiatka, Ellen M	EMN
SM SM 2320B	Emerich, Rich W	RWE

SAMPLE SUMMARY

Client: Tighe & Bond

Job Number: 360-16716-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
360-16716-1	Sed-5	Solid	05/23/2008 1045	05/23/2008 1610
360-16716-2	Sed-8	Solid	05/23/2008 1150	05/23/2008 1610
360-16716-3	Sed-15	Solid	05/23/2008 1245	05/23/2008 1610
360-16716-4	Sed-6	Solid	05/23/2008 1340	05/23/2008 1610
360-16716-5	Sed-14	Solid	05/23/2008 1425	05/23/2008 1610
360-16716-6	Sed-16	Solid	05/23/2008 1430	05/23/2008 1610
360-16716-7	Sed-4	Solid	05/23/2008 1455	05/23/2008 1610

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Job Number: 360-16716-1

Client Sample ID: **Sed-5**
Lab Sample ID: **360-16716-1**

Date Sampled: 05/23/2008 1045
Date Received: 05/23/2008 1610
Client Matrix: Solid
Percent Solids: 61

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Method: 8260B			Date Analyzed:		05/31/2008 0025	
Prep Method: 5035			Date Prepared:		05/30/2008 1154	
1,1,1,2-Tetrachloroethane	ND		ug/Kg	1.5	3.8	1.0
1,1,1-Trichloroethane	ND		ug/Kg	1.5	3.8	1.0
1,1,2,2-Tetrachloroethane	ND		ug/Kg	1.5	3.8	1.0
1,1,2-Trichloroethane	ND		ug/Kg	1.5	3.8	1.0
1,1-Dichloroethane	ND		ug/Kg	1.5	3.8	1.0
1,1-Dichloroethene	ND		ug/Kg	1.5	3.8	1.0
1,1-Dichloropropene	ND		ug/Kg	1.5	3.8	1.0
1,2,3-Trichlorobenzene	ND		ug/Kg	1.5	3.8	1.0
1,2,3-Trichloropropane	ND		ug/Kg	2.3	3.8	1.0
1,2,4-Trichlorobenzene	ND		ug/Kg	1.5	3.8	1.0
1,2,4-Trimethylbenzene	ND		ug/Kg	1.5	3.8	1.0
1,2-Dibromo-3-Chloropropane	ND		ug/Kg	2.8	7.7	1.0
1,2-Dichlorobenzene	ND		ug/Kg	1.5	3.8	1.0
1,2-Dichloroethane	ND		ug/Kg	1.5	3.8	1.0
1,2-Dichloropropane	ND		ug/Kg	1.5	3.8	1.0
1,3,5-Trimethylbenzene	ND		ug/Kg	1.5	3.8	1.0
1,3-Dichlorobenzene	ND		ug/Kg	1.5	3.8	1.0
1,3-Dichloropropane	ND		ug/Kg	1.5	3.8	1.0
1,4-Dichlorobenzene	ND		ug/Kg	1.5	3.8	1.0
2,2-Dichloropropane	ND		ug/Kg	1.5	3.8	1.0
2-Chlorotoluene	ND		ug/Kg	1.5	3.8	1.0
2-Hexanone	ND		ug/Kg	7.9	38	1.0
4-Chlorotoluene	ND		ug/Kg	1.5	3.8	1.0
Acetone	ND	*	ug/Kg	28	380	1.0
Benzene	ND		ug/Kg	1.5	3.8	1.0
Bromobenzene	ND		ug/Kg	1.5	3.8	1.0
Bromochloromethane	ND		ug/Kg	1.5	3.8	1.0
Bromodichloromethane	ND		ug/Kg	1.5	3.8	1.0
Bromoform	ND		ug/Kg	1.5	3.8	1.0
Bromomethane	ND	*	ug/Kg	1.5	7.7	1.0
Carbon tetrachloride	ND		ug/Kg	1.5	3.8	1.0
Chlorobenzene	ND		ug/Kg	1.5	3.8	1.0
Chlorodibromomethane	ND		ug/Kg	1.5	3.8	1.0
Chloroethane	ND	*	ug/Kg	1.5	7.7	1.0
Chloroform	ND		ug/Kg	1.5	3.8	1.0
Chloromethane	ND	*	ug/Kg	1.5	7.7	1.0
cis-1,2-Dichloroethene	ND		ug/Kg	1.5	3.8	1.0
cis-1,3-Dichloropropene	ND		ug/Kg	1.5	3.8	1.0
Dibromomethane	ND		ug/Kg	1.5	3.8	1.0

Jeffery Thelen
Tighe & Bond
53 Southampton Road
Westfield, MA 01085

Job Number: 360-16716-1

Client Sample ID: **Sed-5**
Lab Sample ID: **360-16716-1**

Date Sampled: 05/23/2008 1045
Date Received: 05/23/2008 1610
Client Matrix: Solid
Percent Solids: 61

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Ethylbenzene	ND		ug/Kg	1.5	3.8	1.0
Ethylene Dibromide	ND		ug/Kg	1.5	3.8	1.0
Hexachlorobutadiene	ND		ug/Kg	1.5	3.8	1.0
Isopropylbenzene	ND		ug/Kg	1.5	3.8	1.0
Methyl Ethyl Ketone	ND		ug/Kg	10	38	1.0
methyl isobutyl ketone	ND	*	ug/Kg	7.9	38	1.0
Methyl tert-butyl ether	ND		ug/Kg	1.5	3.8	1.0
Methylene Chloride	ND		ug/Kg	7.4	7.7	1.0
m-Xylene & p-Xylene	ND		ug/Kg	1.5	7.7	1.0
Naphthalene	ND	*	ug/Kg	1.5	38	1.0
n-Butylbenzene	ND		ug/Kg	1.5	3.8	1.0
N-Propylbenzene	ND		ug/Kg	1.5	3.8	1.0
o-Xylene	ND		ug/Kg	1.5	3.8	1.0
p-Isopropyltoluene	ND		ug/Kg	1.5	3.8	1.0
sec-Butylbenzene	ND		ug/Kg	1.5	3.8	1.0
Styrene	ND		ug/Kg	1.5	3.8	1.0
tert-Butylbenzene	ND		ug/Kg	1.5	3.8	1.0
Tetrachloroethene	ND		ug/Kg	1.5	3.8	1.0
Toluene	ND		ug/Kg	1.5	3.8	1.0
trans-1,2-Dichloroethene	ND		ug/Kg	1.5	3.8	1.0
trans-1,3-Dichloropropene	ND		ug/Kg	1.5	3.8	1.0
Trichloroethene	ND		ug/Kg	1.5	3.8	1.0
Trichlorofluoromethane	ND	*	ug/Kg	1.5	7.7	1.0
Vinyl chloride	ND	*	ug/Kg	1.5	3.8	1.0
1,4-Dioxane	ND		ug/Kg	51	380	1.0

Surrogate			Acceptance Limits
4-Bromofluorobenzene	95	%	70 - 130
Dibromofluoromethane	104	%	70 - 130
Toluene-d8 (Surr)	101	%	70 - 130

Tentatively Identified Compounds			Cas Number	RT	
Tentatively Identified Compound	None	ug/L		0.00	1.0

Method: 6010B Date Analyzed: 05/27/2008 1331
Prep Method: 3050B Date Prepared: 05/27/2008 0731

Silver	ND		mg/Kg	0.074	0.82	1.0
Arsenic	5.1		mg/Kg	0.13	1.6	1.0
Barium	120	B	mg/Kg	0.028	0.82	1.0
Cadmium	0.57		mg/Kg	0.0070	0.33	1.0
Chromium	17	B	mg/Kg	0.12	0.82	1.0
Copper	32	B	mg/Kg	0.13	1.6	1.0

Jeffery Thelen
Tighe & Bond
53 Southampton Road
Westfield, MA 01085

Job Number: 360-16716-1

Client Sample ID: **Sed-5**
Lab Sample ID: **360-16716-1**

Date Sampled: 05/23/2008 1045
Date Received: 05/23/2008 1610
Client Matrix: Solid
Percent Solids: 61

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Iron	22000	B	mg/Kg	1.1	8.2	1.0
Manganese	660		mg/Kg	0.16	1.6	1.0
Lead	31		mg/Kg	0.072	0.82	1.0
Selenium	ND		mg/Kg	0.45	0.82	1.0
Zinc	58	B	mg/Kg	0.22	4.1	1.0

Method: 7471A Date Analyzed: 05/29/2008 1626
Prep Method: 7471A Date Prepared: 05/29/2008 1200

Mercury	0.10		mg/Kg	0.044	0.099	1.0

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Tighe & Bond
53 Southampton Road
Westfield, MA 01085

Job Number: 360-16716-1

Client Sample ID: **Sed-5**
Lab Sample ID: **360-16716-1**

Date Sampled: 05/23/2008 1045
Date Received: 05/23/2008 1610
Client Matrix: Solid
Percent Solids: 61

Analyte	Result/Qualifier	Unit	RL	RL	Dilution
Method: Soluble-300.0		Date Analyzed:		05/30/2008 1849	
Chloride	ND	mg/Kg	32	32	1.0
Nitrate as N	ND	mg/Kg	8.1	8.1	1.0
Sulfate	ND	mg/Kg	65	65	1.0
Method: Soluble-410.4		Date Analyzed:		06/04/2008 0921	
Chemical Oxygen Demand	ND	mg/Kg	320	320	1.0
Method: 9012A		Date Analyzed:		06/04/2008 1127	
Prep Method: 9012A		Date Prepared:		06/03/2008 1415	
Cyanide, Total	ND	mg/Kg	1.7	1.7	1.0
Method: Soluble-SM 2320B		Date Analyzed:		05/27/2008 1643	
Alkalinity	19	mg/Kg	0.65	0.65	1.0

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Tighe & Bond
53 Southampton Road
Westfield, MA 01085

Job Number: 360-16716-1

Client Sample ID: **Sed-8**
Lab Sample ID: **360-16716-2**

Date Sampled: 05/23/2008 1150
Date Received: 05/23/2008 1610
Client Matrix: Solid
Percent Solids: 69

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Method: 8260B			Date Analyzed:	05/31/2008 0047		
Prep Method: 5035			Date Prepared:	05/30/2008 1154		
1,1,1,2-Tetrachloroethane	ND		ug/Kg	0.98	2.4	1.0
1,1,1-Trichloroethane	ND		ug/Kg	0.98	2.4	1.0
1,1,2,2-Tetrachloroethane	ND		ug/Kg	0.98	2.4	1.0
1,1,2-Trichloroethane	ND		ug/Kg	0.98	2.4	1.0
1,1-Dichloroethane	ND		ug/Kg	0.98	2.4	1.0
1,1-Dichloroethene	ND		ug/Kg	0.98	2.4	1.0
1,1-Dichloropropene	ND		ug/Kg	0.98	2.4	1.0
1,2,3-Trichlorobenzene	ND		ug/Kg	0.98	2.4	1.0
1,2,3-Trichloropropane	ND		ug/Kg	1.4	2.4	1.0
1,2,4-Trichlorobenzene	ND		ug/Kg	0.98	2.4	1.0
1,2,4-Trimethylbenzene	ND		ug/Kg	0.98	2.4	1.0
1,2-Dibromo-3-Chloropropane	ND		ug/Kg	1.8	4.9	1.0
1,2-Dichlorobenzene	ND		ug/Kg	0.98	2.4	1.0
1,2-Dichloroethane	ND		ug/Kg	0.98	2.4	1.0
1,2-Dichloropropane	ND		ug/Kg	0.98	2.4	1.0
1,3,5-Trimethylbenzene	ND		ug/Kg	0.98	2.4	1.0
1,3-Dichlorobenzene	ND		ug/Kg	0.98	2.4	1.0
1,3-Dichloropropane	ND		ug/Kg	0.98	2.4	1.0
1,4-Dichlorobenzene	ND		ug/Kg	0.98	2.4	1.0
2,2-Dichloropropane	ND		ug/Kg	0.98	2.4	1.0
2-Chlorotoluene	ND		ug/Kg	0.98	2.4	1.0
2-Hexanone	ND		ug/Kg	5.0	24	1.0
4-Chlorotoluene	ND		ug/Kg	0.98	2.4	1.0
Acetone	ND	*	ug/Kg	18	240	1.0
Benzene	ND		ug/Kg	0.98	2.4	1.0
Bromobenzene	ND		ug/Kg	0.98	2.4	1.0
Bromochloromethane	ND		ug/Kg	0.98	2.4	1.0
Bromodichloromethane	ND		ug/Kg	0.98	2.4	1.0
Bromoform	ND		ug/Kg	0.98	2.4	1.0
Bromomethane	ND	*	ug/Kg	0.98	4.9	1.0
Carbon tetrachloride	ND		ug/Kg	0.98	2.4	1.0
Chlorobenzene	ND		ug/Kg	0.98	2.4	1.0
Chlorodibromomethane	ND		ug/Kg	0.98	2.4	1.0
Chloroethane	ND	*	ug/Kg	0.98	4.9	1.0
Chloroform	ND		ug/Kg	0.98	2.4	1.0
Chloromethane	ND	*	ug/Kg	0.98	4.9	1.0
cis-1,2-Dichloroethene	ND		ug/Kg	0.98	2.4	1.0
cis-1,3-Dichloropropene	ND		ug/Kg	0.98	2.4	1.0
Dibromomethane	ND		ug/Kg	0.98	2.4	1.0

Jeffery Thelen
Tighe & Bond
53 Southampton Road
Westfield, MA 01085

Job Number: 360-16716-1

Client Sample ID: **Sed-8**
Lab Sample ID: **360-16716-2**

Date Sampled: 05/23/2008 1150
Date Received: 05/23/2008 1610
Client Matrix: Solid
Percent Solids: 69

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Ethylbenzene	ND		ug/Kg	0.98	2.4	1.0
Ethylene Dibromide	ND		ug/Kg	0.98	2.4	1.0
Hexachlorobutadiene	ND		ug/Kg	0.98	2.4	1.0
Isopropylbenzene	ND		ug/Kg	0.98	2.4	1.0
Methyl Ethyl Ketone	ND		ug/Kg	6.6	24	1.0
methyl isobutyl ketone	ND	*	ug/Kg	5.1	24	1.0
Methyl tert-butyl ether	ND		ug/Kg	0.98	2.4	1.0
Methylene Chloride	ND		ug/Kg	4.7	4.9	1.0
m-Xylene & p-Xylene	ND		ug/Kg	0.98	4.9	1.0
Naphthalene	ND	*	ug/Kg	0.98	24	1.0
n-Butylbenzene	ND		ug/Kg	0.98	2.4	1.0
N-Propylbenzene	ND		ug/Kg	0.98	2.4	1.0
o-Xylene	ND		ug/Kg	0.98	2.4	1.0
p-Isopropyltoluene	ND		ug/Kg	0.98	2.4	1.0
sec-Butylbenzene	ND		ug/Kg	0.98	2.4	1.0
Styrene	ND		ug/Kg	0.98	2.4	1.0
tert-Butylbenzene	ND		ug/Kg	0.98	2.4	1.0
Tetrachloroethene	ND		ug/Kg	0.98	2.4	1.0
Toluene	ND		ug/Kg	0.98	2.4	1.0
trans-1,2-Dichloroethene	ND		ug/Kg	0.98	2.4	1.0
trans-1,3-Dichloropropene	ND		ug/Kg	0.98	2.4	1.0
Trichloroethene	ND		ug/Kg	0.98	2.4	1.0
Trichlorofluoromethane	ND	*	ug/Kg	0.98	4.9	1.0
Vinyl chloride	ND	*	ug/Kg	0.98	2.4	1.0
1,4-Dioxane	ND		ug/Kg	32	240	1.0

Surrogate			Acceptance Limits
4-Bromofluorobenzene	95	%	70 - 130
Dibromofluoromethane	107	%	70 - 130
Toluene-d8 (Surr)	102	%	70 - 130

Tentatively Identified Compounds			Cas Number	RT	
Tentatively Identified Compound	None	ug/L		0.00	1.0

Method: 6010B Date Analyzed: 05/27/2008 1334
Prep Method: 3050B Date Prepared: 05/27/2008 0731

Silver	ND		mg/Kg	0.083	0.92	1.0
Arsenic	1.5	J	mg/Kg	0.15	1.8	1.0
Barium	160	B	mg/Kg	0.031	0.92	1.0
Cadmium	0.47		mg/Kg	0.0079	0.37	1.0
Chromium	5.4	B	mg/Kg	0.13	0.92	1.0
Copper	8.1	B	mg/Kg	0.14	1.8	1.0

Jeffery Thelen
Tighe & Bond
53 Southampton Road
Westfield, MA 01085

Job Number: 360-16716-1

Client Sample ID: **Sed-8**
Lab Sample ID: **360-16716-2**

Date Sampled: 05/23/2008 1150
Date Received: 05/23/2008 1610
Client Matrix: Solid
Percent Solids: 69

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Iron	6500	B	mg/Kg	1.2	9.2	1.0
Manganese	690		mg/Kg	0.18	1.8	1.0
Lead	4.4		mg/Kg	0.081	0.92	1.0
Selenium	ND		mg/Kg	0.50	0.92	1.0
Zinc	25	B	mg/Kg	0.25	4.6	1.0
Method: 7471A			Date Analyzed:	05/29/2008 1628		
Prep Method: 7471A			Date Prepared:	05/29/2008 1200		
Mercury	ND		mg/Kg	0.052	0.12	1.0

Jeffery Thelen
Tighe & Bond
53 Southampton Road
Westfield, MA 01085

Job Number: 360-16716-1

Client Sample ID: **Sed-8**
Lab Sample ID: **360-16716-2**

Date Sampled: 05/23/2008 1150
Date Received: 05/23/2008 1610
Client Matrix: Solid
Percent Solids: 69

Analyte	Result/Qualifier	Unit	RL	RL	Dilution
Method: Soluble-300.0		Date Analyzed:		05/30/2008 1905	
Chloride	ND	mg/Kg	29	29	1.0
Nitrate as N	ND	mg/Kg	7.2	7.2	1.0
Sulfate	ND	mg/Kg	58	58	1.0
Method: Soluble-410.4		Date Analyzed:		06/04/2008 0921	
Chemical Oxygen Demand	ND	mg/Kg	290	290	1.0
Method: 9012A		Date Analyzed:		06/04/2008 1128	
Prep Method: 9012A		Date Prepared:		06/03/2008 1415	
Cyanide, Total	ND	mg/Kg	0.97	0.97	1.0
Method: Soluble-SM 2320B		Date Analyzed:		05/27/2008 1648	
Alkalinity	74	mg/Kg	0.60	0.60	1.0

Jeffery Thelen
Tighe & Bond
53 Southampton Road
Westfield, MA 01085

Job Number: 360-16716-1

Client Sample ID: **Sed-15**
Lab Sample ID: **360-16716-3**

Date Sampled: 05/23/2008 1245
Date Received: 05/23/2008 1610
Client Matrix: Solid
Percent Solids: 33

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Method: 8260B			Date Analyzed:	05/31/2008 0110		
Prep Method: 5035			Date Prepared:	05/30/2008 1154		
1,1,1,2-Tetrachloroethane	ND		ug/Kg	3.5	8.8	1.0
1,1,1-Trichloroethane	ND		ug/Kg	3.5	8.8	1.0
1,1,2,2-Tetrachloroethane	ND		ug/Kg	3.5	8.8	1.0
1,1,2-Trichloroethane	ND		ug/Kg	3.5	8.8	1.0
1,1-Dichloroethane	ND		ug/Kg	3.5	8.8	1.0
1,1-Dichloroethene	ND		ug/Kg	3.5	8.8	1.0
1,1-Dichloropropene	ND		ug/Kg	3.5	8.8	1.0
1,2,3-Trichlorobenzene	ND		ug/Kg	3.5	8.8	1.0
1,2,3-Trichloropropane	ND		ug/Kg	5.2	8.8	1.0
1,2,4-Trichlorobenzene	ND		ug/Kg	3.5	8.8	1.0
1,2,4-Trimethylbenzene	ND		ug/Kg	3.5	8.8	1.0
1,2-Dibromo-3-Chloropropane	ND		ug/Kg	6.4	18	1.0
1,2-Dichlorobenzene	ND		ug/Kg	3.5	8.8	1.0
1,2-Dichloroethane	ND		ug/Kg	3.5	8.8	1.0
1,2-Dichloropropane	ND		ug/Kg	3.5	8.8	1.0
1,3,5-Trimethylbenzene	ND		ug/Kg	3.5	8.8	1.0
1,3-Dichlorobenzene	ND		ug/Kg	3.5	8.8	1.0
1,3-Dichloropropane	ND		ug/Kg	3.5	8.8	1.0
1,4-Dichlorobenzene	ND		ug/Kg	3.5	8.8	1.0
2,2-Dichloropropane	ND		ug/Kg	3.5	8.8	1.0
2-Chlorotoluene	ND		ug/Kg	3.5	8.8	1.0
2-Hexanone	ND		ug/Kg	18	88	1.0
4-Chlorotoluene	ND		ug/Kg	3.5	8.8	1.0
Acetone	ND	*	ug/Kg	63	880	1.0
Benzene	ND		ug/Kg	3.5	8.8	1.0
Bromobenzene	ND		ug/Kg	3.5	8.8	1.0
Bromochloromethane	ND		ug/Kg	3.5	8.8	1.0
Bromodichloromethane	ND		ug/Kg	3.5	8.8	1.0
Bromoform	ND		ug/Kg	3.5	8.8	1.0
Bromomethane	ND	*	ug/Kg	3.5	18	1.0
Carbon tetrachloride	ND		ug/Kg	3.5	8.8	1.0
Chlorobenzene	ND		ug/Kg	3.5	8.8	1.0
Chlorodibromomethane	ND		ug/Kg	3.5	8.8	1.0
Chloroethane	ND	*	ug/Kg	3.5	18	1.0
Chloroform	ND		ug/Kg	3.5	8.8	1.0
Chloromethane	ND	*	ug/Kg	3.5	18	1.0
cis-1,2-Dichloroethene	ND		ug/Kg	3.5	8.8	1.0
cis-1,3-Dichloropropene	ND		ug/Kg	3.5	8.8	1.0
Dibromomethane	ND		ug/Kg	3.5	8.8	1.0

Jeffery Thelen
Tighe & Bond
53 Southampton Road
Westfield, MA 01085

Job Number: 360-16716-1

Client Sample ID: **Sed-15**
Lab Sample ID: **360-16716-3**

Date Sampled: 05/23/2008 1245
Date Received: 05/23/2008 1610
Client Matrix: Solid
Percent Solids: 33

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Ethylbenzene	ND		ug/Kg	3.5	8.8	1.0
Ethylene Dibromide	ND		ug/Kg	3.5	8.8	1.0
Hexachlorobutadiene	ND		ug/Kg	3.5	8.8	1.0
Isopropylbenzene	ND		ug/Kg	3.5	8.8	1.0
Methyl Ethyl Ketone	39	J	ug/Kg	24	88	1.0
methyl isobutyl ketone	ND	*	ug/Kg	18	88	1.0
Methyl tert-butyl ether	ND		ug/Kg	3.5	8.8	1.0
Methylene Chloride	ND		ug/Kg	17	18	1.0
m-Xylene & p-Xylene	ND		ug/Kg	3.5	18	1.0
Naphthalene	ND	*	ug/Kg	3.5	88	1.0
n-Butylbenzene	ND		ug/Kg	3.5	8.8	1.0
N-Propylbenzene	ND		ug/Kg	3.5	8.8	1.0
o-Xylene	ND		ug/Kg	3.5	8.8	1.0
p-Isopropyltoluene	ND		ug/Kg	3.5	8.8	1.0
sec-Butylbenzene	ND		ug/Kg	3.5	8.8	1.0
Styrene	ND		ug/Kg	3.5	8.8	1.0
tert-Butylbenzene	ND		ug/Kg	3.5	8.8	1.0
Tetrachloroethene	ND		ug/Kg	3.5	8.8	1.0
Toluene	ND		ug/Kg	3.5	8.8	1.0
trans-1,2-Dichloroethene	ND		ug/Kg	3.5	8.8	1.0
trans-1,3-Dichloropropene	ND		ug/Kg	3.5	8.8	1.0
Trichloroethene	ND		ug/Kg	3.5	8.8	1.0
Trichlorofluoromethane	ND	*	ug/Kg	3.5	18	1.0
Vinyl chloride	ND	*	ug/Kg	3.5	8.8	1.0
1,4-Dioxane	ND		ug/Kg	120	880	1.0

Surrogate			Acceptance Limits
4-Bromofluorobenzene	94	%	70 - 130
Dibromofluoromethane	102	%	70 - 130
Toluene-d8 (Surr)	100	%	70 - 130

Tentatively Identified Compounds			Cas Number	RT	
Tentatively Identified Compound	None	ug/L		0.00	1.0

Method: 6010B Date Analyzed: 05/27/2008 1337
Prep Method: 3050B Date Prepared: 05/27/2008 0731

Silver	ND		mg/Kg	0.18	2.0	1.0
Arsenic	3.8	J	mg/Kg	0.32	4.0	1.0
Barium	190	B	mg/Kg	0.067	2.0	1.0
Cadmium	0.68	J	mg/Kg	0.017	0.79	1.0
Chromium	23	B	mg/Kg	0.29	2.0	1.0
Copper	28	B	mg/Kg	0.31	4.0	1.0

Jeffery Thelen
Tighe & Bond
53 Southampton Road
Westfield, MA 01085

Job Number: 360-16716-1

Client Sample ID: **Sed-4**
Lab Sample ID: **360-16716-7**

Date Sampled: 05/23/2008 1455
Date Received: 05/23/2008 1610
Client Matrix: Solid
Percent Solids: 73

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Method: 8260B			Date Analyzed:		05/31/2008 0154	
Prep Method: 5035			Date Prepared:		05/30/2008 1154	
1,1,1,2-Tetrachloroethane	ND		ug/Kg	1.3	3.2	1.0
1,1,1-Trichloroethane	ND		ug/Kg	1.3	3.2	1.0
1,1,2,2-Tetrachloroethane	ND		ug/Kg	1.3	3.2	1.0
1,1,2-Trichloroethane	ND		ug/Kg	1.3	3.2	1.0
1,1-Dichloroethane	ND		ug/Kg	1.3	3.2	1.0
1,1-Dichloroethene	ND		ug/Kg	1.3	3.2	1.0
1,1-Dichloropropene	ND		ug/Kg	1.3	3.2	1.0
1,2,3-Trichlorobenzene	ND		ug/Kg	1.3	3.2	1.0
1,2,3-Trichloropropane	ND		ug/Kg	1.9	3.2	1.0
1,2,4-Trichlorobenzene	ND		ug/Kg	1.3	3.2	1.0
1,2,4-Trimethylbenzene	ND		ug/Kg	1.3	3.2	1.0
1,2-Dibromo-3-Chloropropane	ND		ug/Kg	2.3	6.4	1.0
1,2-Dichlorobenzene	ND		ug/Kg	1.3	3.2	1.0
1,2-Dichloroethane	ND		ug/Kg	1.3	3.2	1.0
1,2-Dichloropropane	ND		ug/Kg	1.3	3.2	1.0
1,3,5-Trimethylbenzene	ND		ug/Kg	1.3	3.2	1.0
1,3-Dichlorobenzene	ND		ug/Kg	1.3	3.2	1.0
1,3-Dichloropropane	ND		ug/Kg	1.3	3.2	1.0
1,4-Dichlorobenzene	ND		ug/Kg	1.3	3.2	1.0
2,2-Dichloropropane	ND		ug/Kg	1.3	3.2	1.0
2-Chlorotoluene	ND		ug/Kg	1.3	3.2	1.0
2-Hexanone	ND		ug/Kg	6.6	32	1.0
4-Chlorotoluene	ND		ug/Kg	1.3	3.2	1.0
Acetone	ND	*	ug/Kg	23	320	1.0
Benzene	ND		ug/Kg	1.3	3.2	1.0
Bromobenzene	ND		ug/Kg	1.3	3.2	1.0
Bromochloromethane	ND		ug/Kg	1.3	3.2	1.0
Bromodichloromethane	ND		ug/Kg	1.3	3.2	1.0
Bromoform	ND		ug/Kg	1.3	3.2	1.0
Bromomethane	ND	*	ug/Kg	1.3	6.4	1.0
Carbon tetrachloride	ND		ug/Kg	1.3	3.2	1.0
Chlorobenzene	ND		ug/Kg	1.3	3.2	1.0
Chlorodibromomethane	ND		ug/Kg	1.3	3.2	1.0
Chloroethane	ND	*	ug/Kg	1.3	6.4	1.0
Chloroform	ND		ug/Kg	1.3	3.2	1.0
Chloromethane	ND	*	ug/Kg	1.3	6.4	1.0
cis-1,2-Dichloroethene	ND		ug/Kg	1.3	3.2	1.0
cis-1,3-Dichloropropene	ND		ug/Kg	1.3	3.2	1.0
Dibromomethane	ND		ug/Kg	1.3	3.2	1.0

Jeffery Thelen
Tighe & Bond
53 Southampton Road
Westfield, MA 01085

Job Number: 360-16716-1

Client Sample ID: **Sed-4**
Lab Sample ID: **360-16716-7**

Date Sampled: 05/23/2008 1455
Date Received: 05/23/2008 1610
Client Matrix: Solid
Percent Solids: 73

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Ethylbenzene	ND		ug/Kg	1.3	3.2	1.0
Ethylene Dibromide	ND		ug/Kg	1.3	3.2	1.0
Hexachlorobutadiene	ND		ug/Kg	1.3	3.2	1.0
Isopropylbenzene	ND		ug/Kg	1.3	3.2	1.0
Methyl Ethyl Ketone	ND		ug/Kg	8.7	32	1.0
methyl isobutyl ketone	ND	*	ug/Kg	6.6	32	1.0
Methyl tert-butyl ether	ND		ug/Kg	1.3	3.2	1.0
Methylene Chloride	ND		ug/Kg	6.2	6.4	1.0
m-Xylene & p-Xylene	ND		ug/Kg	1.3	6.4	1.0
Naphthalene	ND	*	ug/Kg	1.3	32	1.0
n-Butylbenzene	ND		ug/Kg	1.3	3.2	1.0
N-Propylbenzene	ND		ug/Kg	1.3	3.2	1.0
o-Xylene	ND		ug/Kg	1.3	3.2	1.0
p-Isopropyltoluene	ND		ug/Kg	1.3	3.2	1.0
sec-Butylbenzene	ND		ug/Kg	1.3	3.2	1.0
Styrene	ND		ug/Kg	1.3	3.2	1.0
tert-Butylbenzene	ND		ug/Kg	1.3	3.2	1.0
Tetrachloroethene	ND		ug/Kg	1.3	3.2	1.0
Toluene	ND		ug/Kg	1.3	3.2	1.0
trans-1,2-Dichloroethene	ND		ug/Kg	1.3	3.2	1.0
trans-1,3-Dichloropropene	ND		ug/Kg	1.3	3.2	1.0
Trichloroethene	ND		ug/Kg	1.3	3.2	1.0
Trichlorofluoromethane	ND	*	ug/Kg	1.3	6.4	1.0
Vinyl chloride	ND	*	ug/Kg	1.3	3.2	1.0
1,4-Dioxane	ND		ug/Kg	42	320	1.0

Surrogate			Acceptance Limits
4-Bromofluorobenzene	97	%	70 - 130
Dibromofluoromethane	100	%	70 - 130
Toluene-d8 (Surr)	100	%	70 - 130

Tentatively Identified Compounds			Cas Number	RT	
Tentatively Identified Compound	None	ug/L		0.00	1.0

Method: 6010B Date Analyzed: 05/27/2008 1408
Prep Method: 3050B Date Prepared: 05/27/2008 0731

Silver	ND		mg/Kg	0.14	1.6	2.0
Arsenic	5.9		mg/Kg	0.25	3.1	2.0
Barium	180	B	mg/Kg	0.053	1.6	2.0
Cadmium	0.73		mg/Kg	0.013	0.62	2.0
Chromium	37	B	mg/Kg	0.23	1.6	2.0
Copper	38	B	mg/Kg	0.24	3.1	2.0

Job Number: 360-16716-1

Jeffery Thelen
Tighe & Bond
53 Southampton Road
Westfield, MA 01085

Client Sample ID: **Sed-4**
Lab Sample ID: **360-16716-7**

Date Sampled: 05/23/2008 1455
Date Received: 05/23/2008 1610
Client Matrix: Solid
Percent Solids: 73

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Iron	38000	B	mg/Kg	2.0	16	2.0
Manganese	860		mg/Kg	0.30	3.1	2.0
Lead	10		mg/Kg	0.14	1.6	2.0
Selenium	ND		mg/Kg	0.85	1.6	2.0
Zinc	82	B	mg/Kg	0.42	7.8	2.0

Method: 7471A Date Analyzed: 05/29/2008 1638
Prep Method: 7471A Date Prepared: 05/29/2008 1200

Mercury	ND		mg/Kg	0.052	0.11	1.0

Jeffery Thelen
Tighe & Bond
53 Southampton Road
Westfield, MA 01085

Job Number: 360-16716-1

Client Sample ID: **Sed-4**
Lab Sample ID: **360-16716-7**

Date Sampled: 05/23/2008 1455
Date Received: 05/23/2008 1610
Client Matrix: Solid
Percent Solids: 73

Analyte	Result/Qualifier	Unit	RL	RL	Dilution
Method: Soluble-300.0		Date Analyzed:		05/30/2008 1950	
Chloride	ND	mg/Kg	28	28	1.0
Nitrate as N	ND	mg/Kg	7.0	7.0	1.0
Sulfate	ND	mg/Kg	56	56	1.0
Method: Soluble-410.4		Date Analyzed:		06/04/2008 0921	
Chemical Oxygen Demand	450	mg/Kg	280	280	1.0
Method: 9012A		Date Analyzed:		06/04/2008 1131	
Prep Method: 9012A		Date Prepared:		06/03/2008 1415	
Cyanide, Total	ND	mg/Kg	1.4	1.4	1.0
Method: Soluble-SM 2320B		Date Analyzed:		05/27/2008 1705	
Alkalinity	31	mg/Kg	0.82	0.82	2.0

DATA REPORTING QUALIFIERS

Client: Tighe & Bond

Job Number: 360-16716-1

Lab Section	Qualifier	Description
GC/MS VOA		
	*	LCS or LCSD exceeds the control limits
	*	RPD of the LCS and LCSD exceeds the control limits
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
Metals		
	B	Compound was found in the blank and sample.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Login Sample Receipt Check List

Client: Tighe & Bond

Job Number: 360-16716-1

Login Number: 16716
Creator: Rinard, Kimberley A
List Number: 1

List Source: TestAmerica Westfield

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	1.3 C / 5.9 C
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

SAMPLE COLLECTION DATA: SOILS AND SOLIDS

Client: Tighe & Bond
Westfield, MA

Job #/ Project Manager A-0305

Collector Signature: [signature]

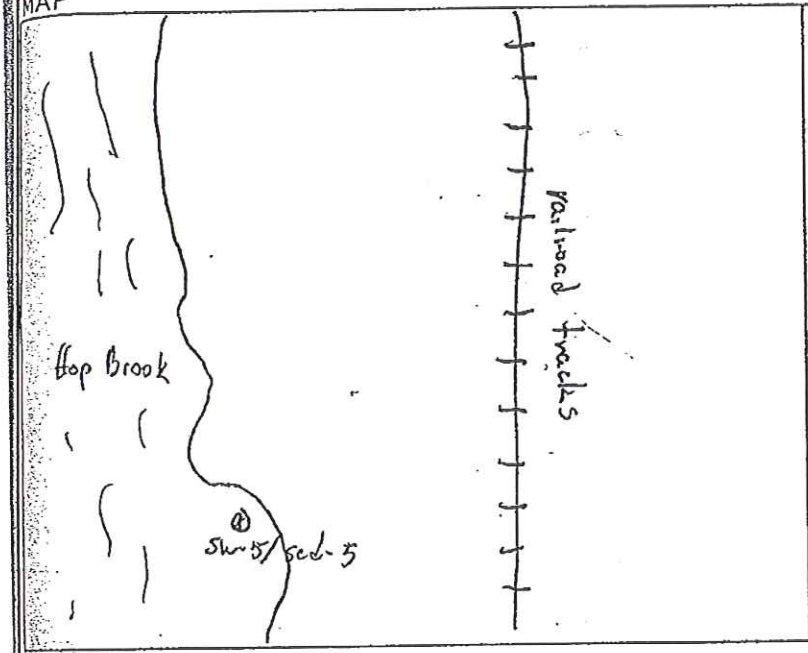
Contact: JJT

Location: Sed-5

Date: 5/23/05 Time: 1045 Weather: Sunny 70°F

Site Descrip.: Amherst, MA

MAP



COMMENTS

- Sediment sample taken from sw-5 location

Collection Method

Equipment: Hand Auger ____ Plastic Scoop ____ Stan Steel Scoop ✓
Coliwasa ____ Thief ____ Other ____

Equipment Decontamination: Organics ✓ Metals ✓ Biological ____

Sampl Type: ___ Composite
✓ Grab

Depth (s) approx 5-6"

Sample Container

(2) 8oz Amber jars
(1) 40ml vial w/ MEOH & (2) 40ml vial w/ D.I.

Analysis Requested

Alk, NO_3, SO_4, Cl, + Tr. Metals
8260

SAMPLE COLLECTION DATA: SOILS AND SOLIDS

Client: Tighe Bond
Westfield, MA

Job #/ Project Manager A-0305

Collector Signature :

Contact: DST

Location: SED-8

Date: 5/27/05

Time: 1150

Weather: Sunny 80°F

Site Descrip.: Amherst, MA

MAP

COMMENTS

- Sub 8 sample taken from SW-8 location within brickyard wetfield

Collection Method

Equipment: Hand Auger ____ Plastic Scoop ____ Stan Steel Scoop ✓
Coliwasa ____ Thief ____ Other ____

Equipment Decontamination: Organics ✓ Metals ✓ Biological ____

Sampl Type: ___ Composite
✓ Grab

Depth (s) Approx 4-5"

Sample Container

Analysis Requested

See page 67 for containers and analysis.

SAMPLE COLLECTION DATA: SOILS AND SOLIDS

Client: Tighe & Bond
Westfield, MA

Job #/ Project Manager A-0308

Collector Signature :

Contact: JST

Location: Sed-15

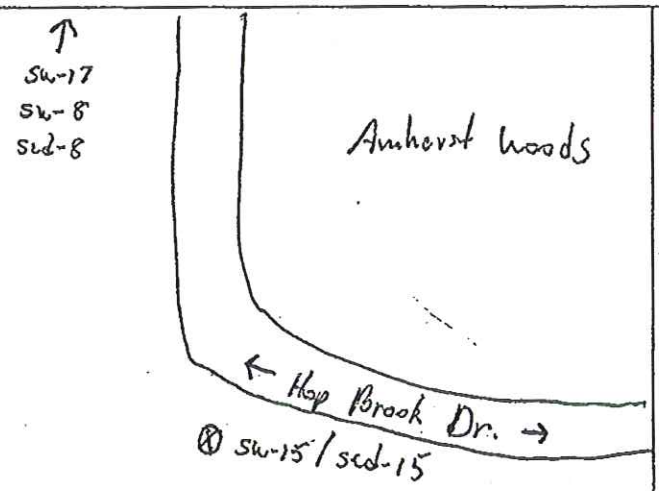
Date: 5/22/08

Time: 1245

Weather: Sunny 80°F

Site Descrip.: Amherst, MA

MAP



COMMENTS

Sed-15 taken from SW-15 location.

Collection Method

Equipment: Hand Auger ____ Plastic Scoop ____ Stan Steel Scoop ✓
Coliwasa ____ Thief ____ Other ____

Equipment Decontamination: Organics ✓ Metals ✓ Biological ____

Sampl Type: ___ Composite
✓ Grab

Depth (s) 5-6" approx.

Sample Container

Analysis Requested

SAMPLE COLLECTION DATA: SOILS AND SOLIDS

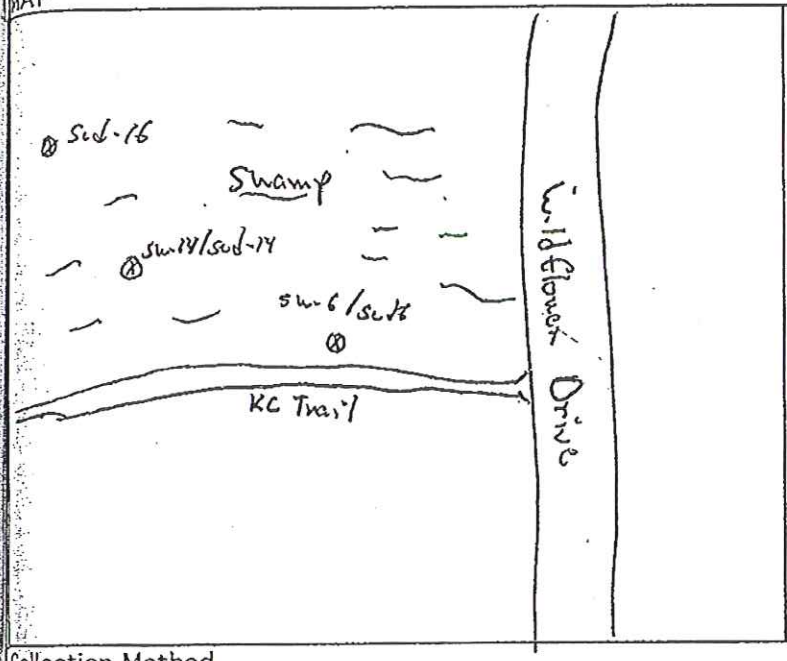
Client: Fisher Bond
Westfield, MA
Contact: JJT

Job #/ Project Manager A-0308
Collector Signature :
Location: Sed-6

Date: 5/23/08 Time: 1340 Weather: Sunny 80°F

Site Descrip.: Amherst, MA

MAP



COMMENTS

- Sediment sample taken from SW-6 location

Collection Method

Equipment: Hand Auger ____ Plastic Scoop ____ Stan Steel Scoop ✓
Coliwasa ____ Thief ____ Other ____

Equipment Decontamination: Organics ____ Metals____ Biological ____

Sampl Type: ___Composite
✓ Grab

Depth (s)

Sample Container

See page 67 for container & analysis

Analysis Requested

SAMPLE COLLECTION DATA: SOILS AND SOLIDS

Client: Tighe & Bond
Westfield, MA

Job #/ Project Manager A-0308

Collector Signature :

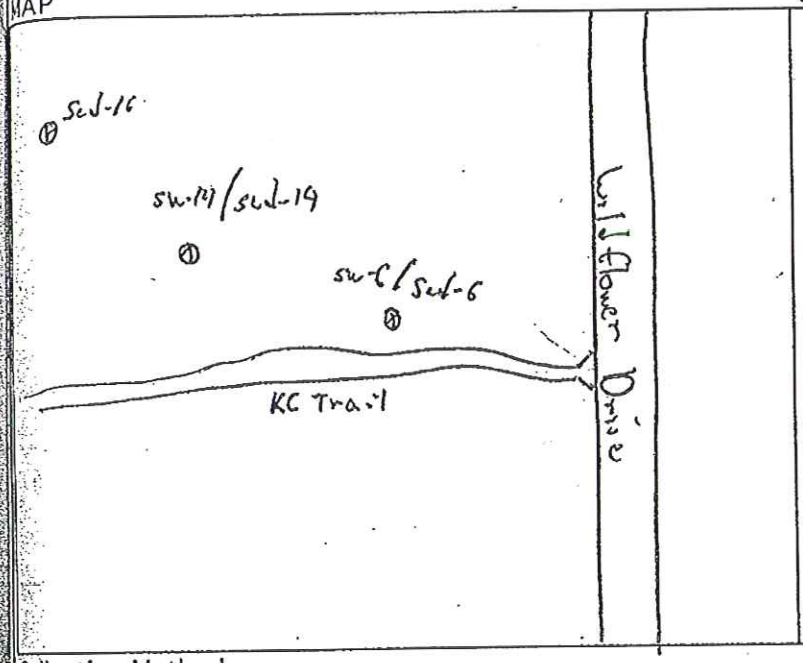
Contact: DJT

Location: Sed-14

Date: 5/23/08 Time: 1425 Weather: Sunny 80°F

Site Descrip.: Amherst, MA

MAP



COMMENTS

- sample taken from sw-14 location
- sample is for metals only

Collection Method

Equipment: Hand Auger ____ Plastic Scoop ____ Stan Steel Scoop ✓
Coliwasa ____ Thief ____ Other ____

Equipment Decontamination: Organics ____ Metals ____ Biological ____

Sampl Type: ___ Composite
__✓ Grab

Depth (s)

Sample Container	Analysis Requested
8oz amber jar	T. Metals only

SAMPLE COLLECTION DATA: SOILS AND SOLIDS

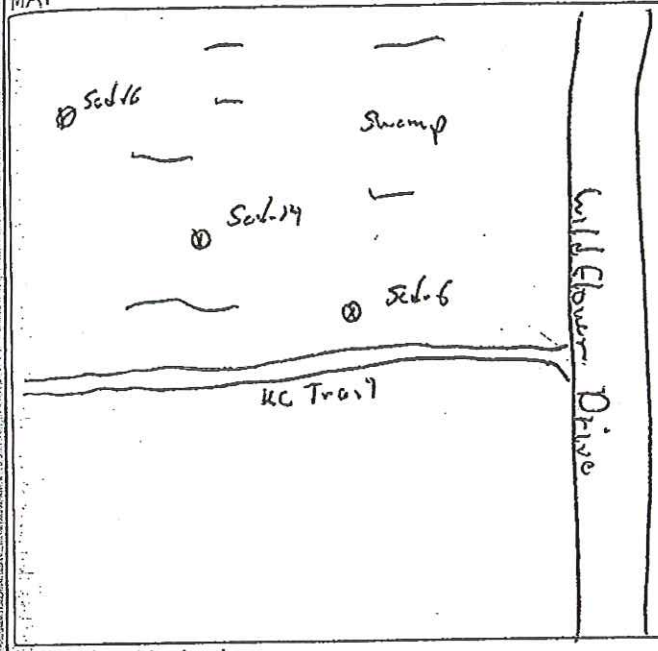
Client: Tighe + Bond
Westfield, Ma
Contact: DJT

Job #/ Project Manager A-0308
Collector Signature :
Location: Sed-16

Date: 5/23/08 Time: Weather: Sunny 80°F

Site Descrip.: Amherst, Ma

MAP



COMMENTS

- Sediment sample taken from swamp off of KC Trail at staked location

Collection Method

Equipment: Hand Auger ____ Plastic Scoop ____ Stan Steel Scoop ✓
Coliwasa ____ Thief ____ Other ____

Equipment Decontamination: Organics ✓ Metals ✓ Biological ____

Sampl Type: ___ Composite
✓ Grab

Depth (s) 4-6" approx

Sample Container	Analysis Requested
8oz Amber jar	T. Metals only.

SAMPLE COLLECTION DATA: SOILS AND SOLIDS

Client: Tyco Bond
Westfield, MS

Job #/ Project Manager A-038

Collector Signature :

Contact: JJT

Location: Sed-4

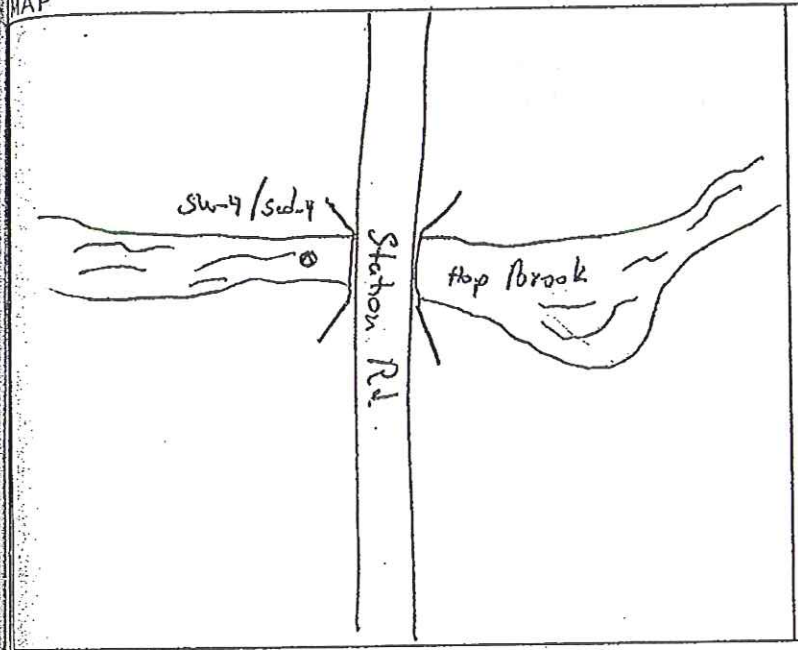
Date: 5/23/08

Time: 1455

Weather: Sunny 80°F

Site Descrip.: Amherst, MS

MAP



COMMENTS

- sample taken from sed location

Collection Method

Equipment: Hand Auger ____ Plastic Scoop ____ Stan Steel Scoop ✓
Coliwasa ____ Thief ____ Other ____

Equipment Decontamination: Organics ✓ Metals ✓ Biological ____

Sampl Type: ___ Composite
✓ Grab

Depth (s) 4-6" approx.

Sample Container

See page 67 for container & analysis

Analysis Requested

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Chain of Custody Form

•53 Southampton Road
Westfield, MA 01085
(P) 413-572-4000
(F) 413-572-3707
Westfield

•148 Rangeway Road
N. Billerica, MA 01862
(P) 978-667-1400
(F) 978-667-7871
Boston - Service Center

Client: Tighe & Bond
Address: 53 Southampton Rd, Westfield, Ma
Phone: 562-1600 Fax:

Client Project #: A-0308
Site ID & State: Amherst, Ma
Reports Sent To: Jeff Thelen
Email: Email Rpt: ☐

Job# 360-16716 Quote# PO#

Shaded areas - for office use
Invoice same as Report to? ☐
If Invoice contact or address different, note in *Comments*

Requested Turnaround Time (PLEASE SPECIFY)
STANDARD _____ RUSH _____ *(Lab Approval Required)*

Regulatory Programs/Presumptive Certainty/QC Forms
MADEP MCP ☐ GW1/S1 ☐ PWS DEP Forms ☐
CTDEP RCP ☐ CT RSR ☐ EDD Required ☐
QA Rpt: No QC ☐ Std QC Rpt ☐ CLP QC Rpt: ☐

500-series for drinking water
600-series for waste water, NPDES
6000-series for groundwater, soil, waste
8000-series for groundwater, soil, waste
Use comments section to further define.

Comments (Special Instructions)

Please print legibly. If the analytical requests are not clearly defined on the chain-of-custody, the turnaround time will begin after all questions have been satisfactorily answered.

Sample Type Codes: WW-Wastewater, DW-Drinking Water, SW-Surface Water, GW-Groundwater, LW Lab Water, A-Air, "Z"-Other (please specify)

Sample I.D.	Sample Type	Sampler's Initials	Date Time Collected	Grab	Comp.	# Containers	Plastic(P) or Glass(G)	NaHSO4/MeOH	HNO3 to pH <2	H2SO4 to pH <2	HCl to pH <2	NaOH to pH >12	Na2S2O3	None / 4° C	524 / 624 / 8260	525 / 625 / 8270	PCB / Pest / Herbicide	EPH / VPH	DRO / GRO / ETPH	Metals (Please Specify)	Mercury	General Chemistry	Bacteriological	Toxicity
Sed-5	Sed	AM	5/23/08 1045	✓		5	G	X						X	✓					✓		✓		
Sed-8	Sed	AM	5/23/08 1150	✓		5	G	X						X	✓					✓		✓		
Sed-13	Sed	AM	5/23/08 1245	✓		5	G	X						X	✓					✓		✓		
Sed-6	Sed	AM	5/23/08 1340	✓		5	G	X						X	✓					✓		✓		
Sed-14	Sed	CM	5/23/08 1425	✓		1	G							X						✓				
Sed-16	Sed	AM	5/23/08 1430	✓		1	G							X						✓				
Sed-4	Sed	AM	5/23/08 1435	✓		5	G							X	✓					✓		✓		
			5/23/08																					

Comments:
- Alk, NO_3, TDS, Cl, SO_4, Turb
- COD
- T. CN
- T. As, Ba, Cd, Cr, Cu, Fe, Mn, Pb, Hg, Se, Zn, Ag
- 8260 + acetone, MEK, MIBK, MTBE, xylenes

Sampled by (print): Adam Marshall
Signature:

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
	5/23/08	1610		5/23/08	1610
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

Cooler? Y / N
MADEP Requirement Samples Iced? Y / N
Temp. @ receipt: 1.3°C / 3.9°C 5.9°C
Preservation / pH checked? Y / N
By: _____ Date: 5/23/08

WESTFIELD

Page 1 of 1

White = Lab file Yellow = Report copy Pink = Customer copy

TAL-8245(1007)

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

OCT 3 0 2008

Job Number: 360-19447-1

Job Description: A 0308-7-03

For:
Tighe & Bond
53 Southampton Road
Westfield, MA 01085

Attention: Jeffery Thelen

Approved for release.
James T Wickham
Technology Manager
10/30/2008 2:43 PM

Designee for
Lisa A Worthington
Project Manager II
lisa.worthington@testamericainc.com
10/30/2008

The test results in this report meet all NELAC requirements for accredited parameters. Any exceptions to NELAC requirements are noted in this report. Pursuant to NELAC, this report may not be reproduced except in full, and with written approval from the laboratory.

TestAmerica Westfield Certifications and Approvals: MADEP MA014, RIDOH57, CTDPH 0494, VT DECWSD, NH DES 2539, NELAP FL E87912 TOX, NELAP NJ MA008 TOX, NELAP NY 10843, NY DOH 10843.

Field sampling is performed under SOPs WE-FLD-001 and WE-FLD-002.

TestAmerica Laboratories, Inc.
TestAmerica Westfield Westfield Executive Park, 53 Southampton Road, Westfield, MA 01085
Tel (413) 572-4000 Fax (413) 572-3707 www.testamericainc.com

ACCREDITED IN ACCORDANCE WITH nelac

Comments

GC/MS Semi VOA

Method 8270CLL: The following samples had surrogate Phenol-d5 recoveries low and outside of criteria. All sample had percent recoveries of 10% or greater. MB, LCSD, 19447-2 through 4. Per method SOP, re-extraction is only required if two or more surrogates from any one fraction or any single surrogate falls below 10%.

METHOD SUMMARY

Client: Tighe & Bond

Job Number: 360-19447-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds (GC/MS)	TAL WFD	SW846 8260B	
Purge and Trap	TAL WFD		SW846 5030B
Semivolatile Organic Compounds by GCMS - Low Levels	TAL WFD	SW846 8270C	
Liquid-Liquid Extraction (Separatory Funnel)	TAL WFD		SW846 3510C
Metals (ICP)	TAL WFD	SW846 6010B	
Sample Filtration, Field	TAL WFD		FIELD_FLTRD
Metals (ICP/MS)	TAL WFD	SW846 6020	
Sample Filtration, Field	TAL WFD		FIELD_FLTRD
Mercury (CVAA)	TAL WFD	SW846 7470A	
Sample Filtration, Field	TAL WFD		FIELD_FLTRD
Preparation, Mercury	TAL WFD		SW846 7470A
Hardness, Calculation	TAL WFD	SM SM 2340B	
Turbidity, Nephelometric	TAL WFD	MCAWW 180.1	
Anions, Ion Chromatography	TAL WFD	MCAWW 300.0	
Anions, Ion Chromatography	TAL WFD	MCAWW 300.0	
COD	TAL WFD	MCAWW 410.4	
Total Cyanide (Automated Colorimetric]	TAL WFD	SW846 9012A	
Cyanide, Total and/or Amenable, Distillation	TAL WFD		SW846 9012A
Alkalinity	TAL WFD	SM SM 2320B	
Solids, Total Dissolved (TDS)	TAL WFD	SM SM 2540C	

Lab References:

TAL WFD = TestAmerica Westfield

Method References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater",

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: Tighe & Bond

Job Number: 360-19447-1

Method	Analyst	Analyst ID
SW846 8260B	Tester, Carla	CT
SW846 8270C	Zuccala, Marissa	MZ
SW846 6010B	Smith, Tim J	TJS
SW846 6020	Smith, Tim J	TJS
SW846 7470A	Nasiatka, Ellen M	EMN
SM SM 2340B	Smith, Tim J	TJS
MCAWW 180.1	Emerich, Rich W	RWE
MCAWW 300.0	Lalashius, Andrew L	ALL
MCAWW 410.4	Sadowski, Scott	SS
SW846 9012A	Lalashius, Andrew L	ALL
SM SM 2320B	Emerich, Rich W	RWE
SM SM 2540C	Sadowski, Scott	SS

SAMPLE SUMMARY

Client: Tighe & Bond

Job Number: 360-19447-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
360-19447-1	Well # 3-68	Ground Water	10/17/2008 1050	10/17/2008 1435
360-19447-2	Well # 3-80	Ground Water	10/17/2008 1200	10/17/2008 1435
360-19447-3	Well # 1-03	Ground Water	10/17/2008 1305	10/17/2008 1435
360-19447-4	Well # 12-08	Ground Water	10/17/2008 1315	10/17/2008 1435
360-19447-5TB	Trip Blank	Water	10/17/2008 1050	10/17/2008 1435

Jeffery Thelen
Tighe & Bond
53 Southampton Road
Westfield, MA 01085

Job Number: 360-19447-1

Client Sample ID: Well # 3-68
Lab Sample ID: 360-19447-1

Date Sampled: 10/17/2008 1050
Date Received: 10/17/2008 1435
Client Matrix: Ground Water

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Method: 8260B			Date Analyzed:	10/24/2008 2104		
Prep Method: 5030B			Date Prepared:	10/24/2008 2104		
Acetone	ND		ug/L	20	50	1.0
Bromobenzene	ND		ug/L	0.64	1.0	1.0
Benzene	ND		ug/L	0.74	1.0	1.0
Bromodichloromethane	ND		ug/L	0.63	1.0	1.0
Bromochloromethane	ND		ug/L	0.78	1.0	1.0
Bromoform	ND		ug/L	0.60	1.0	1.0
Bromomethane	ND		ug/L	0.28	2.0	1.0
Methyl Ethyl Ketone	ND		ug/L	10	10	1.0
Carbon tetrachloride	ND		ug/L	0.71	1.0	1.0
Chlorobenzene	1.1		ug/L	0.65	1.0	1.0
Chlorodibromomethane	ND		ug/L	0.50	0.50	1.0
Chloroethane	ND		ug/L	0.40	2.0	1.0
Chloroform	ND		ug/L	0.66	1.0	1.0
Chloromethane	0.34	J	ug/L	0.30	2.0	1.0
2-Chlorotoluene	ND		ug/L	0.65	1.0	1.0
4-Chlorotoluene	ND		ug/L	0.62	1.0	1.0
cis-1,2-Dichloroethene	ND		ug/L	0.65	1.0	1.0
trans-1,2-Dichloroethene	ND		ug/L	0.60	1.0	1.0
Dibromomethane	ND		ug/L	0.65	1.0	1.0
1,2-Dibromo-3-Chloropropane	ND		ug/L	0.58	5.0	1.0
1,2-Dichlorobenzene	ND		ug/L	0.62	1.0	1.0
1,3-Dichlorobenzene	ND		ug/L	0.64	1.0	1.0
1,4-Dichlorobenzene	ND		ug/L	0.62	1.0	1.0
1,1-Dichloroethane	ND		ug/L	0.67	1.0	1.0
1,1-Dichloroethene	ND		ug/L	0.64	1.0	1.0
1,2-Dichloroethane	ND		ug/L	0.62	1.0	1.0
1,2-Dichloropropane	ND		ug/L	0.51	1.0	1.0
1,3-Dichloropropane	ND		ug/L	0.57	1.0	1.0
2,2-Dichloropropane	ND		ug/L	0.60	1.0	1.0
1,1-Dichloropropene	ND		ug/L	0.68	1.0	1.0
cis-1,3-Dichloropropene	ND		ug/L	0.40	0.40	1.0
trans-1,3-Dichloropropene	ND		ug/L	0.40	0.40	1.0
Ethylbenzene	ND		ug/L	0.67	1.0	1.0
Ethylene Dibromide	ND		ug/L	0.54	1.0	1.0
Trichlorofluoromethane	ND		ug/L	0.31	1.0	1.0
1,4-Dioxane	ND		ug/L	7.7	50	1.0
2-Hexanone	ND		ug/L	7.3	10	1.0
Hexachlorobutadiene	ND		ug/L	0.40	0.40	1.0
Isopropylbenzene	ND		ug/L	0.57	1.0	1.0

Jeffery Thelen
Tighe & Bond
53 Southampton Road
Westfield, MA 01085

Job Number: 360-19447-1

Client Sample ID: Well # 3-68
Lab Sample ID: 360-19447-1

Date Sampled: 10/17/2008 1050
Date Received: 10/17/2008 1435
Client Matrix: Ground Water

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
methyl isobutyl ketone	ND		ug/L	8.5	10	1.0
Methylene Chloride	ND		ug/L	1.0	2.0	1.0
n-Butylbenzene	ND		ug/L	0.59	1.0	1.0
N-Propylbenzene	ND		ug/L	0.70	1.0	1.0
Naphthalene	ND		ug/L	2.0	5.0	1.0
m-Xylene & p-Xylene	ND		ug/L	1.4	2.0	1.0
p-Isopropyltoluene	ND		ug/L	0.59	1.0	1.0
o-Xylene	ND		ug/L	0.54	1.0	1.0
sec-Butylbenzene	ND		ug/L	0.67	1.0	1.0
Styrene	ND		ug/L	0.60	1.0	1.0
tert-Butylbenzene	ND		ug/L	0.61	1.0	1.0
Tetrachloroethene	ND		ug/L	0.48	1.0	1.0
1,1,1,2-Tetrachloroethane	ND		ug/L	0.61	1.0	1.0
1,1,2,2-Tetrachloroethane	ND		ug/L	0.50	0.50	1.0
Toluene	ND		ug/L	0.56	1.0	1.0
1,2,3-Trichlorobenzene	ND		ug/L	0.42	1.0	1.0
1,2,4-Trichlorobenzene	ND		ug/L	0.34	1.0	1.0
1,1,1-Trichloroethane	ND		ug/L	0.70	1.0	1.0
1,1,2-Trichloroethane	ND		ug/L	0.72	1.0	1.0
Trichloroethene	ND		ug/L	0.59	1.0	1.0
1,2,3-Trichloropropane	ND		ug/L	0.65	1.0	1.0
1,2,4-Trimethylbenzene	ND		ug/L	0.70	1.0	1.0
1,3,5-Trimethylbenzene	ND		ug/L	0.66	1.0	1.0
Vinyl chloride	ND		ug/L	0.46	0.50	1.0
Methyl tert-butyl ether	ND		ug/L	0.63	1.0	1.0

Surrogate			Acceptance Limits
Dibromofluoromethane	96	%	70 - 130
Toluene-d8 (Surr)	99	%	70 - 130
4-Bromofluorobenzene	90	%	70 - 130

Tentatively Identified Compounds				Cas Number	RT	
Tentatively Identified Compound	None		ug/L		0.00	1.0
Ethyl ether	1.6	J	ug/L	60-29-7	2.82	1.0

Method: 8270C Date Analyzed: 10/24/2008 1832
Prep Method: 3510C Date Prepared: 10/23/2008 1104

1,4-Dioxane	ND	*	ug/L	0.11	1.0	1.0

Surrogate			Acceptance Limits
2,4,6-Tribromophenol	73	%	15 - 110
2-Fluorobiphenyl	62	%	30 - 130
2-Fluorophenol	25	%	15 - 110

Jeffery Thelen
Tighe & Bond
53 Southampton Road
Westfield, MA 01085

Job Number: 360-19447-1

Client Sample ID: Well # 3-68
Lab Sample ID: 360-19447-1

Date Sampled: 10/17/2008 1050
Date Received: 10/17/2008 1435
Client Matrix: Ground Water

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Surrogate					Acceptance Limits	
Nitrobenzene-d5	87		%		30 - 130	
Phenol-d5	15		%		15 - 110	
Terphenyl-d14	74		%		30 - 130	
Method: Dissolved-6010B			Date Analyzed:		10/22/2008 1554	
Silver	ND		ug/L	0.86	5.0	1.0
Barium	95		ug/L	0.25	10	1.0
Cadmium	ND		ug/L	0.18	1.0	1.0
Chromium	ND		ug/L	0.17	5.0	1.0
Copper	36		ug/L	1.6	10	1.0
Iron	2400		ug/L	16	100	1.0
Manganese	2400		ug/L	0.33	10	1.0
Selenium	ND		ug/L	2.2	10	1.0
Zinc	390		ug/L	2.9	50	1.0
Sodium	19000		ug/L	65	2000	1.0
Calcium	61000		ug/L	27	400	1.0
Method: Dissolved-6020			Date Analyzed:		10/21/2008 1629	
Arsenic	0.77	J	ug/L	0.40	1.0	1.0
Lead	ND		ug/L	0.29	1.0	1.0
Method: Dissolved-7470A			Date Analyzed:		10/22/2008 0853	
Prep Method: 7470A			Date Prepared:		10/21/2008 0957	
Mercury	ND		ug/L	0.13	0.20	1.0
Method: SM 2340B			Date Analyzed:		10/22/2008 1554	
Hardness as calcium carbonate	230		mg/L	0.15	2.6	1.0

Jeffery Thelen
Tighe & Bond
53 Southampton Road
Westfield, MA 01085

Job Number: 360-19447-1

Client Sample ID: Well # 3-68
Lab Sample ID: 360-19447-1

Date Sampled: 10/17/2008 1050
Date Received: 10/17/2008 1435
Client Matrix: Ground Water

Analyte	Result/Qualifier	Unit	RL	RL	Dilution
Method: 180.1		Date Analyzed:		10/17/2008 1738	
Turbidity	3900	NTU	2.5	2.5	25
Method: 300.0		Date Analyzed:		10/18/2008 0507	
Nitrate as N	ND	mg/L	0.050	0.050	1.0
Sulfate	24	mg/L	2.0	2.0	1.0
Method: 300.0		Date Analyzed:		10/23/2008 2226	
Chloride	50	mg/L	10	10	10
Method: 410.4		Date Analyzed:		10/28/2008 0913	
Chemical Oxygen Demand	49	mg/L	20	20	1.0
Method: 9012A		Date Analyzed:		10/29/2008 1534	
Prep Method: 9012A		Date Prepared:		10/29/2008 0920	
Cyanide, Total	ND	mg/L	0.0060	0.0060	1.0
Method: SM 2320B		Date Analyzed:		10/17/2008 1626	
Alkalinity	160	mg/L	1.0	1.0	1.0
Method: SM 2540C		Date Analyzed:		10/23/2008 1349	
Total Dissolved Solids	310	mg/L	5.0	5.0	1.0

Jeffery Thelen
Tighe & Bond
53 Southampton Road
Westfield, MA 01085

Job Number: 360-19447-1

Client Sample ID: Well # 3-80
Lab Sample ID: 360-19447-2

Date Sampled: 10/17/2008 1200
Date Received: 10/17/2008 1435
Client Matrix: Ground Water

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Method: 8260B			Date Analyzed:	10/25/2008 0013		
Prep Method: 5030B			Date Prepared:	10/25/2008 0013		
Acetone	ND		ug/L	20	50	1.0
Bromobenzene	ND		ug/L	0.64	1.0	1.0
Benzene	ND		ug/L	0.74	1.0	1.0
Bromodichloromethane	ND		ug/L	0.63	1.0	1.0
Bromochloromethane	ND		ug/L	0.78	1.0	1.0
Bromoform	ND		ug/L	0.60	1.0	1.0
Bromomethane	ND		ug/L	0.28	2.0	1.0
Methyl Ethyl Ketone	ND		ug/L	10	10	1.0
Carbon tetrachloride	ND		ug/L	0.71	1.0	1.0
Chlorobenzene	ND		ug/L	0.65	1.0	1.0
Chlorodibromomethane	ND		ug/L	0.50	0.50	1.0
Chloroethane	ND		ug/L	0.40	2.0	1.0
Chloroform	ND		ug/L	0.66	1.0	1.0
Chloromethane	0.46	J	ug/L	0.30	2.0	1.0
2-Chlorotoluene	ND		ug/L	0.65	1.0	1.0
4-Chlorotoluene	ND		ug/L	0.62	1.0	1.0
cis-1,2-Dichloroethene	2.6		ug/L	0.65	1.0	1.0
trans-1,2-Dichloroethene	ND		ug/L	0.60	1.0	1.0
Dibromomethane	ND		ug/L	0.65	1.0	1.0
1,2-Dibromo-3-Chloropropane	ND		ug/L	0.58	5.0	1.0
1,2-Dichlorobenzene	ND		ug/L	0.62	1.0	1.0
1,3-Dichlorobenzene	ND		ug/L	0.64	1.0	1.0
1,4-Dichlorobenzene	ND		ug/L	0.62	1.0	1.0
1,1-Dichloroethane	ND		ug/L	0.67	1.0	1.0
1,1-Dichloroethene	ND		ug/L	0.64	1.0	1.0
1,2-Dichloroethane	ND		ug/L	0.62	1.0	1.0
1,2-Dichloropropane	ND		ug/L	0.51	1.0	1.0
1,3-Dichloropropane	ND		ug/L	0.57	1.0	1.0
2,2-Dichloropropane	ND	*	ug/L	0.60	1.0	1.0
1,1-Dichloropropene	ND		ug/L	0.68	1.0	1.0
cis-1,3-Dichloropropene	ND		ug/L	0.40	0.40	1.0
trans-1,3-Dichloropropene	ND		ug/L	0.40	0.40	1.0
Ethylbenzene	ND		ug/L	0.67	1.0	1.0
Ethylene Dibromide	ND		ug/L	0.54	1.0	1.0
Trichlorofluoromethane	ND		ug/L	0.31	1.0	1.0
1,4-Dioxane	ND		ug/L	7.7	50	1.0
2-Hexanone	ND		ug/L	7.3	10	1.0
Hexachlorobutadiene	ND		ug/L	0.40	0.40	1.0
Isopropylbenzene	ND		ug/L	0.57	1.0	1.0

Jeffery Thelen
Tighe & Bond
53 Southampton Road
Westfield, MA 01085

Job Number: 360-19447-1

Client Sample ID: Well # 3-80
Lab Sample ID: 360-19447-2

Date Sampled: 10/17/2008 1200
Date Received: 10/17/2008 1435
Client Matrix: Ground Water

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
methyl isobutyl ketone	ND		ug/L	8.5	10	1.0
Methylene Chloride	ND		ug/L	1.0	2.0	1.0
n-Butylbenzene	ND		ug/L	0.59	1.0	1.0
N-Propylbenzene	ND		ug/L	0.70	1.0	1.0
Naphthalene	ND		ug/L	2.0	5.0	1.0
m-Xylene & p-Xylene	ND		ug/L	1.4	2.0	1.0
p-Isopropyltoluene	ND		ug/L	0.59	1.0	1.0
o-Xylene	ND		ug/L	0.54	1.0	1.0
sec-Butylbenzene	ND		ug/L	0.67	1.0	1.0
Styrene	ND		ug/L	0.60	1.0	1.0
tert-Butylbenzene	ND		ug/L	0.61	1.0	1.0
Tetrachloroethene	ND		ug/L	0.48	1.0	1.0
1,1,1,2-Tetrachloroethane	ND		ug/L	0.61	1.0	1.0
1,1,2,2-Tetrachloroethane	ND		ug/L	0.50	0.50	1.0
Toluene	ND		ug/L	0.56	1.0	1.0
1,2,3-Trichlorobenzene	ND		ug/L	0.42	1.0	1.0
1,2,4-Trichlorobenzene	ND		ug/L	0.34	1.0	1.0
1,1,1-Trichloroethane	ND		ug/L	0.70	1.0	1.0
1,1,2-Trichloroethane	ND		ug/L	0.72	1.0	1.0
Trichloroethene	ND		ug/L	0.59	1.0	1.0
1,2,3-Trichloropropane	ND		ug/L	0.65	1.0	1.0
1,2,4-Trimethylbenzene	ND		ug/L	0.70	1.0	1.0
1,3,5-Trimethylbenzene	ND		ug/L	0.66	1.0	1.0
Vinyl chloride	0.47	J	ug/L	0.46	0.50	1.0
Methyl tert-butyl ether	ND		ug/L	0.63	1.0	1.0

Surrogate			Acceptance Limits
Dibromofluoromethane	95	%	70 - 130
Toluene-d8 (Surr)	96	%	70 - 130
4-Bromofluorobenzene	90	%	70 - 130

Tentatively Identified Compounds				Cas Number	RT	
Dichlorodifluoromethane	0.66	J	ug/L	75-71-8	1.74	1.0
Tentatively Identified Compound	None		ug/L		0.00	1.0
Ethyl ether	3.3	J	ug/L	60-29-7	2.82	1.0

Method: 8260B
Prep Method: 5030B

Date Analyzed: 10/25/2008 0034
Date Prepared: 10/25/2008 0034

Surrogate			Acceptance Limits
Dibromofluoromethane	96	%	70 - 130
Toluene-d8 (Surr)	94	%	70 - 130
4-Bromofluorobenzene	89	%	70 - 130

Jeffery Thelen
Tighe & Bond
53 Southampton Road
Westfield, MA 01085

Job Number: 360-19447-1

Client Sample ID: Well # 3-80
Lab Sample ID: 360-19447-2

Date Sampled: 10/17/2008 1200
Date Received: 10/17/2008 1435
Client Matrix: Ground Water

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Tentatively Identified Compounds				Cas Number	RT	
Tentatively Identified Compound	None		ug/L		0.00	1.0
Method: 8260B			Date Analyzed:	10/25/2008 0055		
Prep Method: 5030B			Date Prepared:	10/25/2008 0055		
Surrogate				Acceptance Limits		
Dibromofluoromethane	95		%	70 - 130		
Toluene-d8 (Surr)	95		%	70 - 130		
4-Bromofluorobenzene	89		%	70 - 130		
Tentatively Identified Compounds				Cas Number	RT	
Tentatively Identified Compound	None		ug/L		0.00	1.0
Method: 8270C			Date Analyzed:	10/24/2008 1900		
Prep Method: 3510C			Date Prepared:	10/23/2008 1104		
1,4-Dioxane	0.21	J *	ug/L	0.11	1.0	1.0
Surrogate				Acceptance Limits		
2,4,6-Tribromophenol	74		%	15 - 110		
2-Fluorobiphenyl	54		%	30 - 130		
2-Fluorophenol	23		%	15 - 110		
Nitrobenzene-d5	75		%	30 - 130		
Phenol-d5	13	X	%	15 - 110		
Terphenyl-d14	61		%	30 - 130		
Method: Dissolved-6010B			Date Analyzed:	10/22/2008 1605		
Silver	ND		ug/L	0.86	5.0	1.0
Barium	600		ug/L	0.25	10	1.0
Cadmium	0.34	J	ug/L	0.18	1.0	1.0
Chromium	ND		ug/L	0.17	5.0	1.0
Copper	ND		ug/L	1.6	10	1.0
Iron	17000		ug/L	16	100	1.0
Manganese	730		ug/L	0.33	10	1.0
Selenium	ND		ug/L	2.2	10	1.0
Zinc	8.9	J	ug/L	2.9	50	1.0
Sodium	19000		ug/L	65	2000	1.0
Calcium	36000		ug/L	27	400	1.0
Method: Dissolved-6020			Date Analyzed:	10/21/2008 1643		
Arsenic	ND		ug/L	0.40	1.0	1.0
Lead	ND		ug/L	0.29	1.0	1.0
Method: Dissolved-7470A			Date Analyzed:	10/22/2008 0858		

Jeffery Thelen
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53 Southampton Road
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Job Number: 360-19447-1

Client Sample ID: Well # 3-80
Lab Sample ID: 360-19447-2

Date Sampled: 10/17/2008 1200
Date Received: 10/17/2008 1435
Client Matrix: Ground Water

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
Prep Method: 7470A		Date Prepared:		10/21/2008 0957	
Mercury	ND	ug/L	0.13	0.20	1.0
Method: SM 2340B		Date Analyzed:		10/22/2008 1605	
Hardness as calcium carbonate	120	mg/L	0.15	2.6	1.0

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53 Southampton Road
Westfield, MA 01085

Job Number: 360-19447-1

Client Sample ID: Well # 3-80
Lab Sample ID: 360-19447-2

Date Sampled: 10/17/2008 1200
Date Received: 10/17/2008 1435
Client Matrix: Ground Water

Analyte	Result/Qualifier	Unit	RL	RL	Dilution
Method: 180.1		Date Analyzed:	10/17/2008 1736		
Turbidity	270	NTU	0.50	0.50	5.0
Method: 300.0		Date Analyzed:	10/18/2008 0437		
Nitrate as N	ND	mg/L	0.050	0.050	1.0
Sulfate	ND	mg/L	2.0	2.0	1.0
Chloride	27	mg/L	1.0	1.0	1.0
Method: 410.4		Date Analyzed:	10/28/2008 0913		
Chemical Oxygen Demand	46	mg/L	40	40	2.0
Method: 9012A		Date Analyzed:	10/29/2008 1535		
Prep Method: 9012A		Date Prepared:	10/29/2008 0920		
Cyanide, Total	ND	mg/L	0.0060	0.0060	1.0
Method: SM 2320B		Date Analyzed:	10/17/2008 1613		
Alkalinity	120	mg/L	1.0	1.0	1.0
Method: SM 2540C		Date Analyzed:	10/23/2008 1349		
Total Dissolved Solids	180	mg/L	5.0	5.0	1.0

Jeffery Thelen
Tighe & Bond
53 Southampton Road
Westfield, MA 01085

Job Number: 360-19447-1

Client Sample ID: Well # 1-03
Lab Sample ID: 360-19447-3

Date Sampled: 10/17/2008 1305
Date Received: 10/17/2008 1435
Client Matrix: Ground Water

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
Method: 8260B		Date Analyzed:	10/28/2008 1750		
Prep Method: 5030B		Date Prepared:	10/28/2008 1750		
Acetone	ND	ug/L	20	50	1.0
Bromobenzene	ND	ug/L	0.64	1.0	1.0
Benzene	ND	ug/L	0.74	1.0	1.0
Bromodichloromethane	ND	ug/L	0.63	1.0	1.0
Bromochloromethane	ND	ug/L	0.78	1.0	1.0
Bromoform	ND	ug/L	0.60	1.0	1.0
Bromomethane	ND *	ug/L	0.28	2.0	1.0
Methyl Ethyl Ketone	ND	ug/L	10	10	1.0
Carbon tetrachloride	ND	ug/L	0.71	1.0	1.0
Chlorobenzene	ND	ug/L	0.65	1.0	1.0
Chlorodibromomethane	ND	ug/L	0.50	0.50	1.0
Chloroethane	ND	ug/L	0.40	2.0	1.0
Chloroform	ND	ug/L	0.66	1.0	1.0
Chloromethane	ND	ug/L	0.30	2.0	1.0
2-Chlorotoluene	ND	ug/L	0.65	1.0	1.0
4-Chlorotoluene	ND	ug/L	0.62	1.0	1.0
cis-1,2-Dichloroethene	ND	ug/L	0.65	1.0	1.0
trans-1,2-Dichloroethene	ND	ug/L	0.60	1.0	1.0
Dibromomethane	ND	ug/L	0.65	1.0	1.0
1,2-Dibromo-3-Chloropropane	ND	ug/L	0.58	5.0	1.0
1,2-Dichlorobenzene	ND	ug/L	0.62	1.0	1.0
1,3-Dichlorobenzene	ND	ug/L	0.64	1.0	1.0
1,4-Dichlorobenzene	ND	ug/L	0.62	1.0	1.0
1,1-Dichloroethane	ND	ug/L	0.67	1.0	1.0
1,1-Dichloroethene	ND	ug/L	0.64	1.0	1.0
1,2-Dichloroethane	ND	ug/L	0.62	1.0	1.0
1,2-Dichloropropane	ND	ug/L	0.51	1.0	1.0
1,3-Dichloropropane	ND	ug/L	0.57	1.0	1.0
2,2-Dichloropropane	ND	ug/L	0.60	1.0	1.0
1,1-Dichloropropene	ND	ug/L	0.68	1.0	1.0
cis-1,3-Dichloropropene	ND	ug/L	0.40	0.40	1.0
trans-1,3-Dichloropropene	ND	ug/L	0.40	0.40	1.0
Ethylbenzene	ND	ug/L	0.67	1.0	1.0
Ethylene Dibromide	ND	ug/L	0.54	1.0	1.0
Trichlorofluoromethane	ND	ug/L	0.31	1.0	1.0
1,4-Dioxane	ND	ug/L	7.7	50	1.0
2-Hexanone	ND	ug/L	7.3	10	1.0
Hexachlorobutadiene	ND	ug/L	0.40	0.40	1.0
Isopropylbenzene	ND	ug/L	0.57	1.0	1.0

Jeffery Thelen
Tighe & Bond
53 Southampton Road
Westfield, MA 01085

Job Number: 360-19447-1

Client Sample ID: Well # 1-03
Lab Sample ID: 360-19447-3

Date Sampled: 10/17/2008 1305
Date Received: 10/17/2008 1435
Client Matrix: Ground Water

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
methyl isobutyl ketone	ND	ug/L	8.5	10	1.0
Methylene Chloride	ND	ug/L	1.0	2.0	1.0
n-Butylbenzene	ND	ug/L	0.59	1.0	1.0
N-Propylbenzene	ND	ug/L	0.70	1.0	1.0
Naphthalene	ND	ug/L	2.0	5.0	1.0
m-Xylene & p-Xylene	ND	ug/L	1.4	2.0	1.0
p-Isopropyltoluene	ND	ug/L	0.59	1.0	1.0
o-Xylene	ND	ug/L	0.54	1.0	1.0
sec-Butylbenzene	ND	ug/L	0.67	1.0	1.0
Styrene	ND	ug/L	0.60	1.0	1.0
tert-Butylbenzene	ND	ug/L	0.61	1.0	1.0
Tetrachloroethene	ND	ug/L	0.48	1.0	1.0
1,1,1,2-Tetrachloroethane	ND	ug/L	0.61	1.0	1.0
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.50	1.0
Toluene	ND	ug/L	0.56	1.0	1.0
1,2,3-Trichlorobenzene	ND	ug/L	0.42	1.0	1.0
1,2,4-Trichlorobenzene	ND	ug/L	0.34	1.0	1.0
1,1,1-Trichloroethane	ND	ug/L	0.70	1.0	1.0
1,1,2-Trichloroethane	ND	ug/L	0.72	1.0	1.0
Trichloroethene	ND	ug/L	0.59	1.0	1.0
1,2,3-Trichloropropane	ND	ug/L	0.65	1.0	1.0
1,2,4-Trimethylbenzene	ND	ug/L	0.70	1.0	1.0
1,3,5-Trimethylbenzene	ND	ug/L	0.66	1.0	1.0
Vinyl chloride	ND	ug/L	0.46	0.50	1.0
Methyl tert-butyl ether	ND	ug/L	0.63	1.0	1.0

Surrogate			Acceptance Limits
Dibromofluoromethane	98	%	70 - 130
Toluene-d8 (Surr)	93	%	70 - 130
4-Bromofluorobenzene	91	%	70 - 130

Tentatively Identified Compounds			Cas Number	RT	
Tentatively Identified Compound	None	ug/L		0.00	1.0

Method: 8270C
Prep Method: 3510C

Date Analyzed: 10/24/2008 1929
Date Prepared: 10/23/2008 1104

1,4-Dioxane	ND *	ug/L	0.11	1.0	1.0

Surrogate			Acceptance Limits
2,4,6-Tribromophenol	66	%	15 - 110
2-Fluorobiphenyl	57	%	30 - 130
2-Fluorophenol	23	%	15 - 110
Nitrobenzene-d5	72	%	30 - 130

Jeffery Thelen
Tighe & Bond
53 Southampton Road
Westfield, MA 01085

Job Number: 360-19447-1

Client Sample ID: Well # 1-03
Lab Sample ID: 360-19447-3

Date Sampled: 10/17/2008 1305
Date Received: 10/17/2008 1435
Client Matrix: Ground Water

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Surrogate					Acceptance Limits	
Phenol-d5	14	X	%		15 - 110	
Terphenyl-d14	63		%		30 - 130	
Method: Dissolved-6010B			Date Analyzed:		10/22/2008 1608	
Silver	ND		ug/L	0.86	5.0	1.0
Barium	44		ug/L	0.25	10	1.0
Cadmium	0.20	J	ug/L	0.18	1.0	1.0
Chromium	ND		ug/L	0.17	5.0	1.0
Copper	ND		ug/L	1.6	10	1.0
Iron	ND		ug/L	16	100	1.0
Manganese	17		ug/L	0.33	10	1.0
Selenium	ND		ug/L	2.2	10	1.0
Zinc	19	J	ug/L	2.9	50	1.0
Sodium	30000		ug/L	65	2000	1.0
Calcium	11000		ug/L	27	400	1.0
Method: Dissolved-6020			Date Analyzed:		10/21/2008 1645	
Arsenic	ND		ug/L	0.40	1.0	1.0
Lead	ND		ug/L	0.29	1.0	1.0
Method: Dissolved-7470A			Date Analyzed:		10/22/2008 0900	
Prep Method: 7470A			Date Prepared:		10/21/2008 0957	
Mercury	ND		ug/L	0.13	0.20	1.0
Method: SM 2340B			Date Analyzed:		10/22/2008 1608	
Hardness as calcium carbonate	47		mg/L	0.15	2.6	1.0

Jeffery Thelen
Tighe & Bond
53 Southampton Road
Westfield, MA 01085

Job Number: 360-19447-1

Client Sample ID: Well # 1-03
Lab Sample ID: 360-19447-3

Date Sampled: 10/17/2008 1305
Date Received: 10/17/2008 1435
Client Matrix: Ground Water

Analyte	Result/Qualifier	Unit	RL	RL	Dilution
Method: 180.1		Date Analyzed:	10/17/2008 1737		
Turbidity	3000	NTU	1.0	1.0	10
Method: 300.0		Date Analyzed:	10/18/2008 0452		
Nitrate as N	0.43	mg/L	0.050	0.050	1.0
Sulfate	9.4	mg/L	2.0	2.0	1.0
Chloride	45	mg/L	1.0	1.0	1.0
Method: 410.4		Date Analyzed:	10/28/2008 0913		
Chemical Oxygen Demand	110	mg/L	40	40	2.0
Method: 9012A		Date Analyzed:	10/29/2008 1536		
Prep Method: 9012A		Date Prepared:	10/29/2008 0920		
Cyanide, Total	ND	mg/L	0.0060	0.0060	1.0
Method: SM 2320B		Date Analyzed:	10/17/2008 1619		
Alkalinity	17	mg/L	1.0	1.0	1.0
Method: SM 2540C		Date Analyzed:	10/23/2008 1349		
Total Dissolved Solids	160	mg/L	5.0	5.0	1.0

Jeffery Thelen
Tighe & Bond
53 Southampton Road
Westfield, MA 01085

Job Number: 360-19447-1

Client Sample ID: Well # 12-08
Lab Sample ID: 360-19447-4

Date Sampled: 10/17/2008 1315
Date Received: 10/17/2008 1435
Client Matrix: Ground Water

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
Method: 8260B		Date Analyzed:	10/28/2008 1811		
Prep Method: 5030B		Date Prepared:	10/28/2008 1811		
Acetone	ND	ug/L	20	50	1.0
Bromobenzene	ND	ug/L	0.64	1.0	1.0
Benzene	ND	ug/L	0.74	1.0	1.0
Bromodichloromethane	ND	ug/L	0.63	1.0	1.0
Bromochloromethane	ND	ug/L	0.78	1.0	1.0
Bromoform	ND	ug/L	0.60	1.0	1.0
Bromomethane	ND *	ug/L	0.28	2.0	1.0
Methyl Ethyl Ketone	ND	ug/L	10	10	1.0
Carbon tetrachloride	ND	ug/L	0.71	1.0	1.0
Chlorobenzene	ND	ug/L	0.65	1.0	1.0
Chlorodibromomethane	ND	ug/L	0.50	0.50	1.0
Chloroethane	ND	ug/L	0.40	2.0	1.0
Chloroform	ND	ug/L	0.66	1.0	1.0
Chloromethane	ND	ug/L	0.30	2.0	1.0
2-Chlorotoluene	ND	ug/L	0.65	1.0	1.0
4-Chlorotoluene	ND	ug/L	0.62	1.0	1.0
cis-1,2-Dichloroethene	ND	ug/L	0.65	1.0	1.0
trans-1,2-Dichloroethene	ND	ug/L	0.60	1.0	1.0
Dibromomethane	ND	ug/L	0.65	1.0	1.0
1,2-Dibromo-3-Chloropropane	ND	ug/L	0.58	5.0	1.0
1,2-Dichlorobenzene	ND	ug/L	0.62	1.0	1.0
1,3-Dichlorobenzene	ND	ug/L	0.64	1.0	1.0
1,4-Dichlorobenzene	ND	ug/L	0.62	1.0	1.0
1,1-Dichloroethane	ND	ug/L	0.67	1.0	1.0
1,1-Dichloroethene	ND	ug/L	0.64	1.0	1.0
1,2-Dichloroethane	ND	ug/L	0.62	1.0	1.0
1,2-Dichloropropane	ND	ug/L	0.51	1.0	1.0
1,3-Dichloropropane	ND	ug/L	0.57	1.0	1.0
2,2-Dichloropropane	ND	ug/L	0.60	1.0	1.0
1,1-Dichloropropene	ND	ug/L	0.68	1.0	1.0
cis-1,3-Dichloropropene	ND	ug/L	0.40	0.40	1.0
trans-1,3-Dichloropropene	ND	ug/L	0.40	0.40	1.0
Ethylbenzene	ND	ug/L	0.67	1.0	1.0
Ethylene Dibromide	ND	ug/L	0.54	1.0	1.0
Trichlorofluoromethane	ND	ug/L	0.31	1.0	1.0
1,4-Dioxane	ND	ug/L	7.7	50	1.0
2-Hexanone	ND	ug/L	7.3	10	1.0
Hexachlorobutadiene	ND	ug/L	0.40	0.40	1.0
Isopropylbenzene	ND	ug/L	0.57	1.0	1.0

Jeffery Thelen
Tighe & Bond
53 Southampton Road
Westfield, MA 01085

Job Number: 360-19447-1

Client Sample ID: Well # 12-08
Lab Sample ID: 360-19447-4

Date Sampled: 10/17/2008 1315
Date Received: 10/17/2008 1435
Client Matrix: Ground Water

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
methyl isobutyl ketone	ND	ug/L	8.5	10	1.0
Methylene Chloride	ND	ug/L	1.0	2.0	1.0
n-Butylbenzene	ND	ug/L	0.59	1.0	1.0
N-Propylbenzene	ND	ug/L	0.70	1.0	1.0
Naphthalene	ND	ug/L	2.0	5.0	1.0
m-Xylene & p-Xylene	ND	ug/L	1.4	2.0	1.0
p-Isopropyltoluene	ND	ug/L	0.59	1.0	1.0
o-Xylene	ND	ug/L	0.54	1.0	1.0
sec-Butylbenzene	ND	ug/L	0.67	1.0	1.0
Styrene	ND	ug/L	0.60	1.0	1.0
tert-Butylbenzene	ND	ug/L	0.61	1.0	1.0
Tetrachloroethene	ND	ug/L	0.48	1.0	1.0
1,1,1,2-Tetrachloroethane	ND	ug/L	0.61	1.0	1.0
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.50	1.0
Toluene	ND	ug/L	0.56	1.0	1.0
1,2,3-Trichlorobenzene	ND	ug/L	0.42	1.0	1.0
1,2,4-Trichlorobenzene	ND	ug/L	0.34	1.0	1.0
1,1,1-Trichloroethane	ND	ug/L	0.70	1.0	1.0
1,1,2-Trichloroethane	ND	ug/L	0.72	1.0	1.0
Trichloroethene	ND	ug/L	0.59	1.0	1.0
1,2,3-Trichloropropane	ND	ug/L	0.65	1.0	1.0
1,2,4-Trimethylbenzene	ND	ug/L	0.70	1.0	1.0
1,3,5-Trimethylbenzene	ND	ug/L	0.66	1.0	1.0
Vinyl chloride	ND	ug/L	0.46	0.50	1.0
Methyl tert-butyl ether	ND	ug/L	0.63	1.0	1.0

Surrogate			Acceptance Limits
Dibromofluoromethane	96	%	70 - 130
Toluene-d8 (Surr)	93	%	70 - 130
4-Bromofluorobenzene	91	%	70 - 130

Tentatively Identified Compounds			Cas Number	RT	
Tentatively Identified Compound	None	ug/L		0.00	1.0

Method: 8270C Date Analyzed: 10/24/2008 1958
Prep Method: 3510C Date Prepared: 10/23/2008 1104

1,4-Dioxane	ND *	ug/L	0.11	1.0	1.0

Surrogate			Acceptance Limits
2,4,6-Tribromophenol	61	%	15 - 110
2-Fluorobiphenyl	60	%	30 - 130
2-Fluorophenol	24	%	15 - 110
Nitrobenzene-d5	75	%	30 - 130

Jeffery Thelen
Tighe & Bond
53 Southampton Road
Westfield, MA 01085

Job Number: 360-19447-1

Client Sample ID: Well # 12-08
Lab Sample ID: 360-19447-4

Date Sampled: 10/17/2008 1315
Date Received: 10/17/2008 1435
Client Matrix: Ground Water

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Surrogate					Acceptance Limits	
Phenol-d5	14	X	%		15 - 110	
Terphenyl-d14	69		%		30 - 130	
Method: Dissolved-6010B			Date Analyzed:		10/22/2008 1611	
Silver	ND		ug/L	0.86	5.0	1.0
Barium	180		ug/L	0.25	10	1.0
Cadmium	ND		ug/L	0.18	1.0	1.0
Chromium	ND		ug/L	0.17	5.0	1.0
Copper	1.8	J	ug/L	1.6	10	1.0
Iron	3600		ug/L	16	100	1.0
Manganese	150		ug/L	0.33	10	1.0
Selenium	ND		ug/L	2.2	10	1.0
Zinc	39	J	ug/L	2.9	50	1.0
Sodium	11000		ug/L	65	2000	1.0
Calcium	14000		ug/L	27	400	1.0
Method: Dissolved-6020			Date Analyzed:		10/21/2008 1647	
Arsenic	0.41	J	ug/L	0.40	1.0	1.0
Lead	ND		ug/L	0.29	1.0	1.0
Method: Dissolved-7470A			Date Analyzed:		10/22/2008 0902	
Prep Method: 7470A			Date Prepared:		10/21/2008 0957	
Mercury	ND		ug/L	0.13	0.20	1.0
Method: SM 2340B			Date Analyzed:		10/22/2008 1611	
Hardness as calcium carbonate	53		mg/L	0.15	2.6	1.0

Jeffery Thelen
Tighe & Bond
53 Southampton Road
Westfield, MA 01085

Job Number: 360-19447-1

Client Sample ID: Well # 12-08
Lab Sample ID: 360-19447-4

Date Sampled: 10/17/2008 1315
Date Received: 10/17/2008 1435
Client Matrix: Ground Water

Analyte	Result/Qualifier	Unit	RL	RL	Dilution
Method: 180.1		Date Analyzed:		10/17/2008 1735	
Turbidity	1900	NTU	1.0	1.0	10
Method: 300.0		Date Analyzed:		10/18/2008 0422	
Nitrate as N	ND	mg/L	0.050	0.050	1.0
Sulfate	7.9	mg/L	2.0	2.0	1.0
Chloride	26	mg/L	1.0	1.0	1.0
Method: 410.4		Date Analyzed:		10/28/2008 0913	
Chemical Oxygen Demand	42	mg/L	20	20	1.0
Method: 9012A		Date Analyzed:		10/29/2008 1537	
Prep Method: 9012A		Date Prepared:		10/29/2008 0920	
Cyanide, Total	ND	mg/L	0.0060	0.0060	1.0
Method: SM 2320B		Date Analyzed:		10/17/2008 1608	
Alkalinity	34	mg/L	1.0	1.0	1.0
Method: SM 2540C		Date Analyzed:		10/23/2008 1349	
Total Dissolved Solids	120	mg/L	5.0	5.0	1.0

Jeffery Thelen
Tighe & Bond
53 Southampton Road
Westfield, MA 01085

Job Number: 360-19447-1

Client Sample ID: Trip Blank
Lab Sample ID: 360-19447-5

Date Sampled: 10/17/2008 1050
Date Received: 10/17/2008 1435
Client Matrix: Water

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Method: 8260B			Date Analyzed:	10/24/2008 1939		
Prep Method: 5030B			Date Prepared:	10/24/2008 1939		
Acetone	ND		ug/L	20	50	1.0
Bromobenzene	ND		ug/L	0.64	1.0	1.0
Benzene	ND		ug/L	0.74	1.0	1.0
Bromodichloromethane	ND		ug/L	0.63	1.0	1.0
Bromochloromethane	ND		ug/L	0.78	1.0	1.0
Bromoform	ND		ug/L	0.60	1.0	1.0
Bromomethane	ND		ug/L	0.28	2.0	1.0
Methyl Ethyl Ketone	ND		ug/L	10	10	1.0
Carbon tetrachloride	ND		ug/L	0.71	1.0	1.0
Chlorobenzene	ND		ug/L	0.65	1.0	1.0
Chlorodibromomethane	ND		ug/L	0.50	0.50	1.0
Chloroethane	ND		ug/L	0.40	2.0	1.0
Chloroform	ND		ug/L	0.66	1.0	1.0
Chloromethane	0.40	J	ug/L	0.30	2.0	1.0
2-Chlorotoluene	ND		ug/L	0.65	1.0	1.0
4-Chlorotoluene	ND		ug/L	0.62	1.0	1.0
cis-1,2-Dichloroethene	ND		ug/L	0.65	1.0	1.0
trans-1,2-Dichloroethene	ND		ug/L	0.60	1.0	1.0
Dibromomethane	ND		ug/L	0.65	1.0	1.0
1,2-Dibromo-3-Chloropropane	ND		ug/L	0.58	5.0	1.0
1,2-Dichlorobenzene	ND		ug/L	0.62	1.0	1.0
1,3-Dichlorobenzene	ND		ug/L	0.64	1.0	1.0
1,4-Dichlorobenzene	ND		ug/L	0.62	1.0	1.0
1,1-Dichloroethane	ND		ug/L	0.67	1.0	1.0
1,1-Dichloroethene	ND		ug/L	0.64	1.0	1.0
1,2-Dichloroethane	ND		ug/L	0.62	1.0	1.0
1,2-Dichloropropane	ND		ug/L	0.51	1.0	1.0
1,3-Dichloropropane	ND		ug/L	0.57	1.0	1.0
2,2-Dichloropropane	ND		ug/L	0.60	1.0	1.0
1,1-Dichloropropene	ND		ug/L	0.68	1.0	1.0
cis-1,3-Dichloropropene	ND		ug/L	0.40	0.40	1.0
trans-1,3-Dichloropropene	ND		ug/L	0.40	0.40	1.0
Ethylbenzene	ND		ug/L	0.67	1.0	1.0
Ethylene Dibromide	ND		ug/L	0.54	1.0	1.0
Trichlorofluoromethane	ND		ug/L	0.31	1.0	1.0
1,4-Dioxane	ND		ug/L	7.7	50	1.0
2-Hexanone	ND		ug/L	7.3	10	1.0
Hexachlorobutadiene	ND		ug/L	0.40	0.40	1.0
Isopropylbenzene	ND		ug/L	0.57	1.0	1.0

Jeffery Thelen
Tighe & Bond
53 Southampton Road
Westfield, MA 01085

Job Number: 360-19447-1

Client Sample ID: Trip Blank
Lab Sample ID: 360-19447-5

Date Sampled: 10/17/2008 1050
Date Received: 10/17/2008 1435
Client Matrix: Water

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
methyl isobutyl ketone	ND	ug/L	8.5	10	1.0
Methylene Chloride	ND	ug/L	1.0	2.0	1.0
n-Butylbenzene	ND	ug/L	0.59	1.0	1.0
N-Propylbenzene	ND	ug/L	0.70	1.0	1.0
Naphthalene	ND	ug/L	2.0	5.0	1.0
m-Xylene & p-Xylene	ND	ug/L	1.4	2.0	1.0
p-Isopropyltoluene	ND	ug/L	0.59	1.0	1.0
o-Xylene	ND	ug/L	0.54	1.0	1.0
sec-Butylbenzene	ND	ug/L	0.67	1.0	1.0
Styrene	ND	ug/L	0.60	1.0	1.0
tert-Butylbenzene	ND	ug/L	0.61	1.0	1.0
Tetrachloroethene	ND	ug/L	0.48	1.0	1.0
1,1,1,2-Tetrachloroethane	ND	ug/L	0.61	1.0	1.0
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.50	1.0
Toluene	ND	ug/L	0.56	1.0	1.0
1,2,3-Trichlorobenzene	ND	ug/L	0.42	1.0	1.0
1,2,4-Trichlorobenzene	ND	ug/L	0.34	1.0	1.0
1,1,1-Trichloroethane	ND	ug/L	0.70	1.0	1.0
1,1,2-Trichloroethane	ND	ug/L	0.72	1.0	1.0
Trichloroethene	ND	ug/L	0.59	1.0	1.0
1,2,3-Trichloropropane	ND	ug/L	0.65	1.0	1.0
1,2,4-Trimethylbenzene	ND	ug/L	0.70	1.0	1.0
1,3,5-Trimethylbenzene	ND	ug/L	0.66	1.0	1.0
Vinyl chloride	ND	ug/L	0.46	0.50	1.0
Methyl tert-butyl ether	ND	ug/L	0.63	1.0	1.0

Surrogate			Acceptance Limits
Dibromofluoromethane	96	%	70 - 130
Toluene-d8 (Surr)	98	%	70 - 130
4-Bromofluorobenzene	90	%	70 - 130

Tentatively Identified Compounds			Cas Number	RT	
Tentatively Identified Compound	None	ug/L		0.00	1.0

DATA REPORTING QUALIFIERS

Client: Tighe & Bond

Job Number: 360-19447-1

Lab Section	Qualifier	Description
GC/MS VOA		
	*	LCS or LCSD exceeds the control limits
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
GC/MS Semi VOA		
	*	RPD of the LCS and LCSD exceeds the control limits
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
	X	Surrogate exceeds the control limits
Metals		
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Login Sample Receipt Check List

Client: Tighe & Bond

Job Number: 360-19447-1

Login Number: 19447
Creator: Rinard, Kimberley A
List Number: 1

List Source: TestAmerica Westfield

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	1.6 C
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

SAMPLE COLLECTION DATA GROUND WATER

Client: Tighe & Bond, Inc.
53 Southampton Rd, Westfield, MA 01085
Contact: JJT
Collected By: AM/CM
Date: 10/17/08
Weather: Sunny / 50's F

Job Number: A-308
Sampling Location: Old Amherst LF
Well No.: #3-68
Time Collected: 1050

Water Table

Diameter of Well: 2 inches
Well Depth (from top of PVC standpipe): 38.81'
Depth of Water Table (from top of PVC standpipe): 4.72'
Length of Water Column: 34.09' feet

Purge Volume: LWC x 0.17 / 0.38 / 0.08 (circle one) x 3 = 17.3859 Volume Purged 17 gallons

Purging Method: (please check)
Submersible pump ____ Teflon Bailer ✓ Other (explain) ____

Sampling Method:
Type of Bailer: Teflon ✓ ID# ____ Other (explain) ____ Dedicated Bailer YES NO
If not explain decontamination procedures

SAMPLE COLLECTION & FIELD DATA

Volume removed prior to analysis	pH	Specific Conductance µmhos/cm @25°C	Temperature °C	Dissolved Oxygen mg/L	—	Time Analyzed
17 gallons	6.65	536	13.06	2.88	—	1102

CONTAINERS & PRESERVATIVES

Type of Container	Number of Containers	Preservative Type/Amount	Analysis Required	Field pH
Plastic liter	1	6°C	Alk,NO3, TDS,CL, SO4	
500mL plastic	1	HNO3/2.5mL	D:Fe,Mn,As,Ba,Cd,Cr,Cu,Pb,Hg,Se,Ag,Zn	<2
250mL plastic	1	H2SO4/1mL	COD	<2
250mL plastic	1	NaOH/1mL	Total Cyanide	>12
40mL vial	4	HCL/0.5mL	VOA 8260 + Acetone, MEK, MIBK	<2
Amber Liter	2	4.0°	1,4-Dioxane	—

If sample was taken for dissolved metals, were these samples field filtered? Yes

Date: 10/17/08 Time: 1102 By: AM/CM Filter Pore Size & Type: 0.45 micron Gelman

General Notes: PVC is
HACH pH meter Calibrated form 4.0/7.0/10.0 with buffers on:
YSI 85 Calibrated for Spec. Cond. To 1413 umhos/cm @25°C: AM 10/17/08
YSI 85 Calibrated for Diss Oxygen To 96.5% @1000' :

76

SAMPLE COLLECTION DATA GROUND WATER

Client: Tighe & Bond, Inc.
53 Southampton Rd, Westfield, MA.01085
Contact: JJT
Collected By: AM/CM
Date: 10-17-08

Job Number: A-308
Sampling Location: OLD AMHERST L.F.
Well No.: # 3-80
Time Collected: 1200

Weather: SUNNY 50'S °F

Water Table

Diameter of Well: 2 inches
Well Depth (from top of PVC standpipe): 109.13'
Depth of Water Table (from top of PVC standpipe): 4.93'
Length of Water Column: 104.20' feet

Purge Volume: LWC x 0.17 / 0.38 / 0.08 (circle one) x 3 = _____ Volume Purged _____

Purging Method: (please check)
Submersible pump _____ Teflon Bailer X Other (explain) _____

Sampling Method:
Type of Bailer: Teflon X ID# _____ Other (explain) _____ Dedicated Bailer (YES) NO
If not explain decontamination procedures

SAMPLE COLLECTION & FIELD DATA

Volume removed prior to analysis	pH	Specific Conductance µmhos/cm @25°C	Temperature °C	Dissolved Oxygen mg/L	—	Time Analyzed
53 GAL	6.84	356	14.88	1.28	—	1208

CONTAINERS & PRESERVATIVES

Type of Container	Number of Containers	Preservative Type/Amount	Analysis Required	Field pH
Plastic liter	1	6°C	Alk,NO3, TDS,CL, SO4	
500mL plastic	1	HNO3/2.5mL	D:Fe,Mn,As,Ba,Cd,Cr,Cu,Pb,Hg,Se,Ag,Zn	<2
250mL plastic	1	H2SO4/1mL	COD	<2
250mL plastic	1	NaOH/1mL	Total Cyanide	>12
40mL vial	4	HCL/0.5mL	VOA 8260 + Acetone, MEK, MIBK	<2
AMBER LITER	2	4.0°C	1,4 DIOXANE	—

If sample was taken for dissolved metals, were these samples field filtered? YES
Filter Pore Size & Type: 0.45 micron Gelman

Date: 10-17-08 Time: 1208 By: AM/CM

General Notes: PVC is
HACH pH meter Calibrated form 4.0/7.0/10.0 with buffers on:
YSI 85 Calibrated for Spec. Cond. To 1413 umhos/cm @25°C:
YSI 85 Calibrated for Diss Oxygen To 96.5% @1000' :

77

SAMPLE COLLECTION DATA GROUND WATER

Client: Tighe & Bond, Inc.
53 Southampton Rd, Westfield, MA 01085
Contact: JJT
Collected By: AM / CM
Date: 10/17/08
Weather: Sunny 50's F

Job Number: A-308
Sampling Location: Old Amherst LF
Well No.: #1-03
Time Collected: 1305

Water Table

Diameter of Well: 2 inches
Well Depth (from top of PVC standpipe): 17.52'
Depth of Water Table (from top of PVC standpipe): 6.63'
Length of Water Column: 10.89' feet

Purge Volume: LWC x 0.17 / 0.38 / 0.08 (circle one) x 3 = 5.5539 Volume Purged 5.5 gallons

Purging Method: (please check)
Submersible pump ____ Teflon Bailer ✓ Other (explain) ____

Sampling Method:
Type of Bailer: Teflon ✓ ID# ____ Other (explain) ____ Dedicated Bailer YES NO
If not explain decontamination procedures

SAMPLE COLLECTION & FIELD DATA

Volume removed prior to analysis	pH	Specific Conductance µmhos/cm @25°C	Temperature °C	Dissolved Oxygen mg/L	—	Time Analyzed
						1310

CONTAINERS & PRESERVATIVES

Type of Container	Number of Containers	Preservative Type/Amount	Analysis Required	Field pH
Plastic liter	1	6°C	Alk,NO3, TDS,CL, SO4	
500mL plastic	1	HNO3/2.5mL	D:Fe,Mn,As,Ba,Cd,Cr,Cu,Pb,Hg,Se,Ag,Zn	<2
250mL plastic	1	H2SO4/1mL	COD	<2
250mL plastic	1	NaOH/1mL	Total Cyanide	>12
40mL vial	4	HCL/0.5mL	VOA 8260 + Acetone, MEK, MIBK	<2
Amber Liter	2	4.0°	1,4-Dioxane	—

If sample was taken for dissolved metals, were these samples field filtered? Yes

Date: 10/17/08 Time: 1310 By: AM/CM Filter Pore Size & Type: 0.45 micron Gelman

General Notes: PVC is
HACH pH meter Calibrated form 4.0/7.0/10.0 with buffers on:
YSI 85 Calibrated for Spec. Cond. To 1413 umhos/cm @25°C;
YSI 85 Calibrated for Diss Oxygen To 96.5% @1000' :

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SAMPLE COLLECTION DATA GROUND WATER

Client: Tighe & Bond, Inc.
53 Southampton Rd, Westfield, MA 01085
Contact: JJT
Collected By: AM/CM
Date: 10/17/08
Weather: Sunny / 50's F

Job Number: A308
Sampling Location: Old Amherst LF
Well No.: #12-08
Time Collected: 1315

Water Table

Diameter of Well: 2 inches
Well Depth (from top of PVC standpipe): 58.69'
Depth of Water Table (from top of PVC standpipe): 6.40'
Length of Water Column: 52.25' feet

Purge Volume: LWC x 0.17 / 0.38 / 0.08 (circle one) x 3 = 25.6679 Volume Purged 25.5 gallons

Purging Method: (please check)
Submersible pump ____ Teflon Bailer ✓ Other (explain) ____

Sampling Method:
Type of Bailer: Teflon ✓ ID# ____ Other (explain) ____ Dedicated Bailer (YES) NO
If not explain decontamination procedures

SAMPLE COLLECTION & FIELD DATA

Volume removed prior to analysis	pH	Specific Conductance µmhos/cm @25°C	Temperature °C	Dissolved Oxygen mg/L	—	Time Analyzed
25.5 GAL	6.33	181	12.44	2.30	—	1320

CONTAINERS & PRESERVATIVES

Type of Container	Number of Containers	Preservative Type/Amount	Analysis Required	Field pH
Plastic liter	1	6°C	Alk,NO3, TDS,CL, SO4	
500mL plastic	1	HNO3/2.5mL	D:Fe,Mn,As,Ba,Cd,Cr,Cu,Pb,Hg,Se,Ag,Zn	<2
250mL plastic	1	H2SO4/1mL	COD	<2
250mL plastic	1	NaOH/1mL	Total Cyanide	>12
40mL vial	4	HCL/0.5mL	VOA 8260 + Acetone, MEK, MIBK	<2
Amber Liter	2	4.0°C	1,4-Dioxane	—

If sample was taken for dissolved metals, were these samples field filtered? Yes

Date: 10/17/08 Time: 1320 By: AM/CM Filter Pore Size & Type: 0.45 micron Gelman

General Notes: PVC is
HACH pH meter Calibrated form 4.0/7.0/10.0 with buffers on:
YSI 85 Calibrated for Spec. Cond. To 1413 umhos/cm @25°C:
YSI 85 Calibrated for Diss Oxygen To 96.5% @1000' :

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TestAmerica Laboratories, Inc.
Chain of Custody Form

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

•53 Southampton Road
Westfield, MA 01085
(P) 413-572-4000
(F) 413-572-3707

•148 Rangeway Road
N. Billerica, MA 01862
(P) 978-667-1400
(F) 978-667-7871

SDG# 360 19447 Quote# PO#

Client: Tighe &Bond
Address: 53 Southampton Rd.
Westfield, MA 01085
Phone: 413-562-1600 Fax:

Job#: A 0308-7-03
Project Manager:
Work ID: Old Amherst LF
Contact: Jeff Thelen

Requested Turn Around Time
15 Business Day ____ Rush ____
10 Business Day ____ Other ____

NPDES ____ Drinking Water ____ MCP Other ____
RCRA ____ MCP GW1 ____ Other ____

Stated areas for office use

Analysis Requested
Check analysis and specify method and analytes in comments section.
For example:
500-series for drinking water
600-series for waste water
8000-series for haz/solid waste
Use comments section to further define.

Comments
(Special Instructions)

1. pH_fd,Temp_fd,DO_fd,Sp.Cond_fd
2. Alk,NO3-n,TDS,Cl,SO4,Turb
3. COD
4. T. Cyanide
5. Diss: As,Ba,Cd,Cr,Cu,Fe,Mn, Pb,Hg,Se,Ag,Zn,Na,Ca,Hardness
6. VOA 8260 + MEK,MIBK,Acetone; Xylenes
6. ID unknown peaks @ 2x baseline
7. 1,4-Dioxane

Sample Type Codes
WW-Wellwater W-Wastewater SW-Surfacewater LW-Labwater
RW-Raw Water GW-Groundwater PW-Public Water SO-Soil
S-Solid SL-Sludge O-Oil A-Air Z-Other

Sample ID	Sample Type	Sampler's Initials	Date Time Collected	Grab	Comp.	# Containers	Plastic(P) or Glass(G)	NaHSO4/MeOH	HNO3 to pH <2	H2SO4 to pH <2	HCl to pH <2	NaOH to pH >2	Other	4° C	pH	Volatiles	Semivolatiles	PCB & Pesticides	EPH	VPH	DRO/GRO (circle)	Oil & Grease	Metals	General Chemistry	Bacteriological	Other
Preservative																										
well #3-68	GW	CM	10/17/08 1050	X										X												1
well #3-68	GW	CM		X		1	P							X										2		
well #3-68	GW	CM		X		1	P			X														3		
well #3-68	GW	CM		X		1	P					X														4
well #3-68	GW	CM		X		1	P		X														5			
well #3-68	GW	CM		X		4	G				X					6										
well #3-68	GW	CM		X		2	G							X			7									

Sampled by (print): Charlie Moon
Signature: Charlie Moon

Relinquished by: [signature] Date: 10/17/08 Time: 1435
Received by: [signature] Date: 10/17/08 Time: 1435

Relinquished by: Date: Time:
Received by: Date: Time:

Method of shipment: TestAmerica Laboratories

Cooler # ____ Temp @ receipt ____
Preservation/pH checked
By ____ Date 10/5/08

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Q:/qaqc/dcontrol/SMF00500.MA

TestAmerica Laboratories, Inc.
Chain of Custody Form

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

360 19447

•53 Southampton Road
Westfield, MA 01085
(P) 413-572-4000
(F) 413-572-3707

•148 Rangeway Road
N. Billerica, MA 01862
(P) 978-667-1400
(F) 978-667-7871

Job#: Quote#: PO#:

Client: Tighe &Bond
Address: 53 Southampton Rd.
Westfield, MA 01085
Phone: 413-562-1600 Fax:

Job#: A 0308-7-03
Project Manager:
Work ID: Old Amherst LF
Contact: Jeff Thelen

Requested Turn Around Time
15 Business Day ____ Rush ____
10 Business Day ____ Other ____

NPDES ____ Drinking Water ____ MCP Other ____
RCRA ____ MCP GW1 ____ Other ____

Shaded areas for office use

Analysis Requested
Check analysis and specify method and analytes in comments section.
For example:
500-series for drinking water
600-series for waste water
8000-series for haz/solid waste
Use comments section to further define.

Comments
(Special Instructions)

1. pH_fd,Temp_fd,DO_fd,Sp.Cond_fd
2. Alk,NO3-n,TDS,Cl,SO4,Turb
3. COD
4. T. Cyanide
5. Diss: As,Ba,Cd,Cr,Cu,Fe,Mn, Pb,Hg,Se,Ag,Zn,Na,Ca,Hardness
6. VOA 8260 + MEK,MIBK,Acetone; Xylenes
6. ID unknown peaks @ 2x baseline
7. 1,4-Dioxane

Sample Type Codes
WW-Wellwater W-Wastewater SW-Surfacewater LW-Labwater
RW-Raw Water GW-Groundwater PW-Public Water SO-Soil
S-Solid SL-Sludge O-Oil A-Air Z-Other

Sample ID	Sample Type	Sampler's Initials	Date Time Collected	Grab	Comp.	# Containers	Plastic(P) or Glass(G)	Preservative: NaHSO4/MeOH	HNO3 to pH <2	H2SO4 to pH <2	HCl to pH <2	NaOH to pH >2	Other:	4° C	pH	Volatiles	Semivolatiles	PCB & Pesticides	EPH	VPH	DRO/GRO (circle)	Oil & Grease	Metals	General Chemistry	Bacteriological	Other
well #3-80	GW	AM	10/17/08 1200	X										X												1
well #3-80	GW	AM		X		1	P							X										2		
well #3-80	GW	AM		X		1	P			X														3		
well #3-80	GW	AM		X		1	P					X														4
well #3-80	GW	AM		X		1	P		X														5			
well #3-80	GW	AM		X		4	G				X					6										
well #3-80	GW	AM		X		2	G							X			7									

Sampled by (print): Adam Marshall
Signature:

Relinquished by: Date: 10/17/08 Time: 1435
Received by: Date: 10/17/08 Time: 1435
Relinquished by: Date: Time:
Received by: Date: Time:

Method of shipment: TestAmerica Laboratories

Cooler: Yes / No
Temp @ receipt: 1.2°C
Preservation pH checked
By: Date: 10/18

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THE LEADER IN ENVIRONMENTAL TESTING

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(F) 413-572-3707

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N. Billerica, MA 01862
(P) 978-667-1400
(F) 978-667-7871

360-19447

Job#: Quote#: PO#:

Client: Tighe &Bond
Address: 53 Southampton Rd.
Westfield, MA 01085
Phone: 413-562-1600 Fax:

Job#: A 0308-7-03
Project Manager:
Work ID: Old Amherst LF
Contact: Jeff Thelen

Requested Turn Around Time
15 Business Day ____ Rush ____
10 Business Day ____ Other ____

NPDES ____ Drinking Water ____ MCP Other ____
RCRA ____ MCP GW1 ____ Other ____

Shaded areas for office use

Analysis Requested
Check analysis and specify method and analytes in comments section.
For example:
500-series for drinking water
600-series for waste water
8000-series for haz/solid waste
Use comments section to further define.

Comments
(Special Instructions)

1. pH_fd,Temp_fd,DO_fd,Sp.Cond_fd
2. Alk,NO3-n,TDS,Cl,SO4,Turb
3. COD
4. T. Cyanide
5. Diss: As,Ba,Cd,Cr,Cu,Fe,Mn, Pb,Hg,Se,Ag,Zn,Na,Ca,Hardness
6. VOA 8260 + MEK,MIBK,Acetone; Xylenes
6. ID unknown peaks @ 2x baseline
7. 1,4-Dioxane

Sample Type Codes
WW-Wellwater W-Wastewater SW-Surfacewater LW-Labwater
RW-Raw Water GW-Groundwater PW-Public Water SO-Soil
S-Solid SL-Sludge O-Oil A-Air Z-Other

Sample ID	Sample Type	Sampler's Initials	Date Time Collected	Grab	Comp.	# Containers	Plastic(P) or Glass(G)	NaHSO4/MeOH	HNO3 to pH <2	H2SO4 to pH <2	HCl to pH <2	NaOH to pH >2	Other:	4° C	pH	Volatiles	Semivolatiles	PCB & Pesticides	EPH	VPH	DRO/GRO (circle)	Oil & Grease	Metals	General Chemistry	Bacteriological	Other
Well #1-03	GW	AM	10/17/08 1305	X										X												1
Well #1-03	GW	AM		X		1	P							X										2		
Well #1-03	GW	AM		X		1	P			X														3		
Well #1-03	GW	AM		X		1	P					X														4
Well #1-03	GW	AM		X		1	P		X														5			
Well #1-03	GW	AM		X		4	G				X					6										
Well #1-03	GW	AM		X		2	G							X			7									

Sampled by (print): Adam Marshall
Signature:

Relinquished by: Date: 10/17/08 Time: 1435
Received by: Date: 10/17/08 Time: 1435

Relinquished by: Date: Time:
Received by: Date: Time:

Method of shipment: TestAmerica Laboratories

Cooler: 1/03-1/15
Temp @ receipt: 1.6-2.4
Preservation pH checked
By: Date: 10/17/08

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Q:/qaqc/dcontrol/SMF00500.MA

TestAmerica Laboratories, Inc.
Chain of Custody Form

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

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(F) 413-572-3707

•148 Rangeway Road
N. Billerica, MA 01862
(P) 978-667-1400
(F) 978-667-7871

360 19447

Job#: Quote#: PO#:

Client: Tighe &Bond
Address: 53 Southampton Rd.
Westfield, MA 01085
Phone: 413-562-1600 Fax:

Job#: A 0308-7-03
Project Manager:
Work ID: Old Amherst LF
Contact: Jeff Thelen

Requested Turn Around Time
15 Business Day _____ Rush _____
10 Business Day _____ Other _____

NPDES _____ Drinking Water _____ MCP Other _____
RCRA _____ MCP GW1 _____ Other _____

Shaded areas for office use

Analysis Requested
Check analysis and specify method and analytes in comments section.
For example:
500-series for drinking water
600-series for waste water
8000-series for haz/solid waste
Use comments section to further define.

Comments
(Special Instructions)

1. pH_fd,Temp_fd,DO_fd,Sp.Cond_fd
2. Alk,NO3-n,TDS,Cl,SO4,Turb
3. COD
4. T. Cyanide
5. Diss: As,Ba,Cd,Cr,Cu,Fe,Mn, Pb,Hg,Se,Ag,Zn,Na,Ca,Hardness
6. VOA 8260 + MEK,MIBK,Acetone; Xylenes
6. ID unknown peaks @ 2x baseline
7. 1,4-Dioxane

Sample Type Codes
WW-Wellwater W-Wastewater SW-Surfacewater LW-Labwater
RW-Raw Water GW-Groundwater PW-Public Water SO-Soil
S-Solid SL-Sludge O-Oil A-Air Z-Other

Sample ID	Sample Type	Sampler's Initials	Date Time Collected	Grab	Comp.	# Containers	Plastic(P) or Glass(G)	NaHSO4/MeOH	HNO3 to pH <2	H2SO4 to pH <2	HCl to pH <2	NaOH to pH >2	Other:	4° C	pH	Volatiles	Semivolatiles	PCB & Pesticides	EPH	VPH	DRO/GRO (circle)	Oil & Grease	Metals	General Chemistry	Bacteriological	Other
well #12-08	GW	CM	10/17/08 1315	X										X												1
well #12-08	GW	CM		X		1	P							X										2		
well #12-08	GW	CM		X		1	P			X														3		
well #12-08	GW	CM		X		1	P					X														4
well #12-08	GW	CM		X		1	P		X														5			
well #12-08	GW	CM		X		4	G				X					6										
well #12-08	GW	CM		X		2	G							X			7									

Sampled by (print): Charlie Moon
Signature: Charlie Moon

Relinquished by: Date: 10/17/08 Time: 1435
Received by: Date: 10/17/08 Time: 1435

Relinquished by: Date: Time:
Received by: Date: Time:

Method of shipment: TestAmerica Laboratories

Cooler: 1 of 1
Temp @ receipt: 1.6°C
Preservation/pH checked
By: VWC Date: 10/18/08

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 360-19524-1

Job Description: A 0308-7-03

For:
Tighe & Bond
53 Southampton Road
Westfield, MA 01085

Attention: Jeffery Thelen

Approved for release.
Joe Chimi
Report Production Representative
11/5/08 1:04 PM

Designee for
Lisa A Worthington
Project Manager II
lisa.worthington@testamericainc.com
11/05/2008

The test results in this report meet all NELAC requirements for accredited parameters. Any exceptions to NELAC requirements are noted in this report. Pursuant to NELAC, this report may not be reproduced except in full, and with written approval from the laboratory.

TestAmerica Westfield Certifications and Approvals: MADEP MA014, RIDOH57, CTDPH 0494, VT DECWSD, NH DES 2539, NELAP FL E87912 TOX, NELAP NJ MA008 TOX, NELAP NY 10843, NY DOH 10843.

Field sampling is performed under SOPs WE-FLD-001 and WE-FLD-002.

TestAmerica Laboratories, Inc.
TestAmerica Westfield Westfield Executive Park, 53 Southampton Road, Westfield, MA 01085
Tel (413) 572-4000 Fax (413) 572-3707 www.testamericainc.com

ACCREDITED IN ACCORDANCE WITH nelac

Metals
Method 6010B: Batch 37915: The method blank for batch 37915 contained Barium and Manganese above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

METHOD SUMMARY

Client: Tighe & Bond

Job Number: 360-19524-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds (GC/MS)	TAL WFD	SW846 8260B	
Purge and Trap	TAL WFD		SW846 5030B
Semivolatile Organic Compounds by GCMS - Low Levels	TAL WFD	SW846 8270C	
Liquid-Liquid Extraction (Separatory Funnel)	TAL WFD		SW846 3510C
Metals (ICP)	TAL WFD	SW846 6010B	
Sample Filtration, Field	TAL WFD		FIELD_FLTRD
Metals (ICP/MS)	TAL WFD	SW846 6020	
Sample Filtration, Field	TAL WFD		FIELD_FLTRD
Mercury (CVAA)	TAL WFD	SW846 7470A	
Sample Filtration, Field	TAL WFD		FIELD_FLTRD
Preparation, Mercury	TAL WFD		SW846 7470A
Hardness, Calculation	TAL WFD	SM SM 2340B	
Turbidity, Nephelometric	TAL WFD	MCAWW 180.1	
Anions, Ion Chromatography	TAL WFD	MCAWW 300.0	
Anions, Ion Chromatography	TAL WFD	MCAWW 300.0	
COD	TAL WFD	MCAWW 410.4	
Total Cyanide (Automated Colorimetric]	TAL WFD	SW846 9012A	
Cyanide, Total and/or Amenable, Distillation	TAL WFD		SW846 9012A
Alkalinity	TAL WFD	SM SM 2320B	
Solids, Total Dissolved (TDS)	TAL WFD	SM SM 2540C	

Lab References:

TAL WFD = TestAmerica Westfield

Method References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater",

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: Tighe & Bond

Job Number: 360-19524-1

Method	Analyst	Analyst ID
SW846 8260B	Tester, Carla	CT
SW846 8270C	Zuccala, Marissa	MZ
SW846 6010B	Nasiatka, Ellen M	EMN
SW846 6020	Smith, Tim J	TJS
SW846 7470A	Nasiatka, Ellen M	EMN
SM SM 2340B	Nasiatka, Ellen M	EMN
MCAWW 180.1	Emerich, Rich W	RWE
MCAWW 300.0	Lalashius, Andrew L	ALL
MCAWW 410.4	Sadowski, Scott	SS
SW846 9012A	Lalashius, Andrew L	ALL
SM SM 2320B	Emerich, Rich W	RWE
SM SM 2540C	Sadowski, Scott	SS

SAMPLE SUMMARY

Client: Tighe & Bond

Job Number: 360-19524-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
360-19524-1	WELL # 5-08	Ground Water	10/23/2008 1345	10/23/2008 1535
360-19524-2TB	TRIP BLANK	Water	10/23/2008 1345	10/23/2008 1535

Jeffery Thelen
Tighe & Bond
53 Southampton Road
Westfield, MA 01085

Job Number: 360-19524-1

Client Sample ID: WELL # 5-08
Lab Sample ID: 360-19524-1

Date Sampled: 10/23/2008 1345
Date Received: 10/23/2008 1535
Client Matrix: Ground Water

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Method: 8260B			Date Analyzed:	10/28/2008 0142		
Prep Method: 5030B			Date Prepared:	10/28/2008 0142		
Acetone	ND		ug/L	20	50	1.0
Bromobenzene	ND		ug/L	0.64	1.0	1.0
Benzene	ND		ug/L	0.74	1.0	1.0
Bromodichloromethane	ND		ug/L	0.63	1.0	1.0
Bromochloromethane	ND		ug/L	0.78	1.0	1.0
Bromoform	ND		ug/L	0.60	1.0	1.0
Bromomethane	ND		ug/L	0.28	2.0	1.0
Methyl Ethyl Ketone	ND		ug/L	10	10	1.0
Carbon tetrachloride	ND		ug/L	0.71	1.0	1.0
Chlorobenzene	ND		ug/L	0.65	1.0	1.0
Chlorodibromomethane	ND		ug/L	0.50	0.50	1.0
Chloroethane	ND		ug/L	0.40	2.0	1.0
Chloroform	ND		ug/L	0.66	1.0	1.0
Chloromethane	0.38	J	ug/L	0.30	2.0	1.0
2-Chlorotoluene	ND		ug/L	0.65	1.0	1.0
4-Chlorotoluene	ND		ug/L	0.62	1.0	1.0
cis-1,2-Dichloroethene	ND		ug/L	0.65	1.0	1.0
trans-1,2-Dichloroethene	ND		ug/L	0.60	1.0	1.0
Dibromomethane	ND		ug/L	0.65	1.0	1.0
1,2-Dibromo-3-Chloropropane	ND		ug/L	0.58	5.0	1.0
1,2-Dichlorobenzene	ND		ug/L	0.62	1.0	1.0
1,3-Dichlorobenzene	ND		ug/L	0.64	1.0	1.0
1,4-Dichlorobenzene	ND		ug/L	0.62	1.0	1.0
1,1-Dichloroethane	ND		ug/L	0.67	1.0	1.0
1,1-Dichloroethene	ND		ug/L	0.64	1.0	1.0
1,2-Dichloroethane	ND		ug/L	0.62	1.0	1.0
1,2-Dichloropropane	ND		ug/L	0.51	1.0	1.0
1,3-Dichloropropane	ND		ug/L	0.57	1.0	1.0
2,2-Dichloropropane	ND	*	ug/L	0.60	1.0	1.0
1,1-Dichloropropene	ND		ug/L	0.68	1.0	1.0
cis-1,3-Dichloropropene	ND		ug/L	0.40	0.40	1.0
trans-1,3-Dichloropropene	ND		ug/L	0.40	0.40	1.0
Ethylbenzene	ND		ug/L	0.67	1.0	1.0
Ethylene Dibromide	ND		ug/L	0.54	1.0	1.0
Trichlorofluoromethane	ND		ug/L	0.31	1.0	1.0
1,4-Dioxane	ND		ug/L	7.7	50	1.0
2-Hexanone	ND		ug/L	7.3	10	1.0
Hexachlorobutadiene	ND		ug/L	0.40	0.40	1.0
Isopropylbenzene	ND		ug/L	0.57	1.0	1.0

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Job Number: 360-19524-1

Client Sample ID: WELL # 5-08
Lab Sample ID: 360-19524-1

Date Sampled: 10/23/2008 1345
Date Received: 10/23/2008 1535
Client Matrix: Ground Water

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
methyl isobutyl ketone	ND		ug/L	8.5	10	1.0
Methylene Chloride	ND		ug/L	1.0	2.0	1.0
n-Butylbenzene	ND		ug/L	0.59	1.0	1.0
N-Propylbenzene	ND		ug/L	0.70	1.0	1.0
Naphthalene	ND		ug/L	2.0	5.0	1.0
m-Xylene & p-Xylene	ND		ug/L	1.4	2.0	1.0
p-Isopropyltoluene	ND		ug/L	0.59	1.0	1.0
o-Xylene	ND		ug/L	0.54	1.0	1.0
sec-Butylbenzene	ND		ug/L	0.67	1.0	1.0
Styrene	ND		ug/L	0.60	1.0	1.0
tert-Butylbenzene	ND		ug/L	0.61	1.0	1.0
Tetrachloroethene	ND		ug/L	0.48	1.0	1.0
1,1,1,2-Tetrachloroethane	ND		ug/L	0.61	1.0	1.0
1,1,2,2-Tetrachloroethane	ND		ug/L	0.50	0.50	1.0
Toluene	ND		ug/L	0.56	1.0	1.0
1,2,3-Trichlorobenzene	ND		ug/L	0.42	1.0	1.0
1,2,4-Trichlorobenzene	ND		ug/L	0.34	1.0	1.0
1,1,1-Trichloroethane	ND		ug/L	0.70	1.0	1.0
1,1,2-Trichloroethane	ND		ug/L	0.72	1.0	1.0
Trichloroethene	ND		ug/L	0.59	1.0	1.0
1,2,3-Trichloropropane	ND		ug/L	0.65	1.0	1.0
1,2,4-Trimethylbenzene	ND		ug/L	0.70	1.0	1.0
1,3,5-Trimethylbenzene	ND		ug/L	0.66	1.0	1.0
Vinyl chloride	ND		ug/L	0.46	0.50	1.0
Methyl tert-butyl ether	ND		ug/L	0.63	1.0	1.0
Surrogate					Acceptance Limits	
Dibromofluoromethane	96		%		70 - 130	
Toluene-d8 (Surr)	95		%		70 - 130	
4-Bromofluorobenzene	89		%		70 - 130	
Tentatively Identified Compounds					Cas Number	RT
Propene	2.8	T J N	ug/L		000115-07-1	1.68	1.0
Method: 8270C				Date Analyzed:	10/30/2008 1659	
Prep Method: 3510C				Date Prepared:	10/30/2008 1115	
1,4-Dioxane	ND		ug/L	0.11	1.0	1.0
Surrogate					Acceptance Limits	
2-Fluorobiphenyl	63		%		30 - 130	
Nitrobenzene-d5	64		%		30 - 130	
Terphenyl-d14	73		%		30 - 130	

Jeffery Thelen
Tighe & Bond
53 Southampton Road
Westfield, MA 01085

Job Number: 360-19524-1

Client Sample ID: WELL # 5-08
Lab Sample ID: 360-19524-1

Date Sampled: 10/23/2008 1345
Date Received: 10/23/2008 1535
Client Matrix: Ground Water

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Method: Dissolved-6010B			Date Analyzed:		10/24/2008 1847	
Silver	ND		ug/L	0.86	5.0	1.0
Barium	52	B	ug/L	0.25	10	1.0
Cadmium	ND		ug/L	0.18	1.0	1.0
Chromium	ND		ug/L	0.17	5.0	1.0
Copper	ND		ug/L	1.6	10	1.0
Iron	ND		ug/L	16	100	1.0
Manganese	110	B	ug/L	0.33	10	1.0
Selenium	ND		ug/L	2.2	10	1.0
Zinc	ND		ug/L	2.9	50	1.0
Sodium	15000		ug/L	65	2000	1.0
Calcium	6400		ug/L	27	400	1.0
Method: Dissolved-6020			Date Analyzed:		10/27/2008 1542	
Arsenic	ND		ug/L	0.40	1.0	1.0
Lead	ND		ug/L	0.29	1.0	1.0
Method: Dissolved-7470A			Date Analyzed:		10/28/2008 1139	
Prep Method: 7470A			Date Prepared:		10/28/2008 0820	
Mercury	ND		ug/L	0.13	0.20	1.0
Method: SM 2340B			Date Analyzed:		10/24/2008 1847	
Hardness as calcium carbonate	19		mg/L	0.15	2.6	1.0

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Westfield, MA 01085

Job Number: 360-19524-1

Client Sample ID: WELL # 5-08
Lab Sample ID: 360-19524-1

Date Sampled: 10/23/2008 1345
Date Received: 10/23/2008 1535
Client Matrix: Ground Water

Analyte	Result/Qualifier	Unit	RL	RL	Dilution
Method: 180.1		Date Analyzed:	10/24/2008 1432		
Turbidity	120	NTU	0.10	0.10	1.0
Method: 300.0		Date Analyzed:	10/24/2008 1225		
Nitrate as N	ND	mg/L	0.050	0.050	1.0
Sulfate	14	mg/L	2.0	2.0	1.0
Chloride	7.1	mg/L	1.0	1.0	1.0
Method: 410.4		Date Analyzed:	11/03/2008 0832		
Chemical Oxygen Demand	ND	mg/L	20	20	1.0
Method: 9012A		Date Analyzed:	11/04/2008 1355		
Prep Method: 9012A		Date Prepared:	11/04/2008 1130		
Cyanide, Total	ND	mg/L	0.0060	0.0060	1.0
Method: SM 2320B		Date Analyzed:	10/24/2008 0945		
Alkalinity	27	mg/L	1.0	1.0	1.0
Method: SM 2540C		Date Analyzed:	10/29/2008 1449		
Total Dissolved Solids	66	mg/L	5.0	5.0	1.0

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Westfield, MA 01085

Job Number: 360-19524-1

Client Sample ID: TRIP BLANK
Lab Sample ID: 360-19524-2

Date Sampled: 10/23/2008 1345
Date Received: 10/23/2008 1535
Client Matrix: Water

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Method: 8260B			Date Analyzed:	10/28/2008 0204		
Prep Method: 5030B			Date Prepared:	10/28/2008 0204		
Acetone	ND		ug/L	20	50	1.0
Bromobenzene	ND		ug/L	0.64	1.0	1.0
Benzene	ND		ug/L	0.74	1.0	1.0
Bromodichloromethane	ND		ug/L	0.63	1.0	1.0
Bromochloromethane	ND		ug/L	0.78	1.0	1.0
Bromoform	ND		ug/L	0.60	1.0	1.0
Bromomethane	ND		ug/L	0.28	2.0	1.0
Methyl Ethyl Ketone	ND		ug/L	10	10	1.0
Carbon tetrachloride	ND		ug/L	0.71	1.0	1.0
Chlorobenzene	ND		ug/L	0.65	1.0	1.0
Chlorodibromomethane	ND		ug/L	0.50	0.50	1.0
Chloroethane	ND		ug/L	0.40	2.0	1.0
Chloroform	ND		ug/L	0.66	1.0	1.0
Chloromethane	0.47	J	ug/L	0.30	2.0	1.0
2-Chlorotoluene	ND		ug/L	0.65	1.0	1.0
4-Chlorotoluene	ND		ug/L	0.62	1.0	1.0
cis-1,2-Dichloroethene	ND		ug/L	0.65	1.0	1.0
trans-1,2-Dichloroethene	ND		ug/L	0.60	1.0	1.0
Dibromomethane	ND		ug/L	0.65	1.0	1.0
1,2-Dibromo-3-Chloropropane	ND		ug/L	0.58	5.0	1.0
1,2-Dichlorobenzene	ND		ug/L	0.62	1.0	1.0
1,3-Dichlorobenzene	ND		ug/L	0.64	1.0	1.0
1,4-Dichlorobenzene	ND		ug/L	0.62	1.0	1.0
1,1-Dichloroethane	ND		ug/L	0.67	1.0	1.0
1,1-Dichloroethene	ND		ug/L	0.64	1.0	1.0
1,2-Dichloroethane	ND		ug/L	0.62	1.0	1.0
1,2-Dichloropropane	ND		ug/L	0.51	1.0	1.0
1,3-Dichloropropane	ND		ug/L	0.57	1.0	1.0
2,2-Dichloropropane	ND	*	ug/L	0.60	1.0	1.0
1,1-Dichloropropene	ND		ug/L	0.68	1.0	1.0
cis-1,3-Dichloropropene	ND		ug/L	0.40	0.40	1.0
trans-1,3-Dichloropropene	ND		ug/L	0.40	0.40	1.0
Ethylbenzene	ND		ug/L	0.67	1.0	1.0
Ethylene Dibromide	ND		ug/L	0.54	1.0	1.0
Trichlorofluoromethane	ND		ug/L	0.31	1.0	1.0
1,4-Dioxane	ND		ug/L	7.7	50	1.0
2-Hexanone	ND		ug/L	7.3	10	1.0
Hexachlorobutadiene	ND		ug/L	0.40	0.40	1.0
Isopropylbenzene	ND		ug/L	0.57	1.0	1.0

Jeffery Thelen
Tighe & Bond
53 Southampton Road
Westfield, MA 01085

Job Number: 360-19524-1

Client Sample ID: TRIP BLANK
Lab Sample ID: 360-19524-2

Date Sampled: 10/23/2008 1345
Date Received: 10/23/2008 1535
Client Matrix: Water

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
methyl isobutyl ketone	ND	ug/L	8.5	10	1.0
Methylene Chloride	ND	ug/L	1.0	2.0	1.0
n-Butylbenzene	ND	ug/L	0.59	1.0	1.0
N-Propylbenzene	ND	ug/L	0.70	1.0	1.0
Naphthalene	ND	ug/L	2.0	5.0	1.0
m-Xylene & p-Xylene	ND	ug/L	1.4	2.0	1.0
p-Isopropyltoluene	ND	ug/L	0.59	1.0	1.0
o-Xylene	ND	ug/L	0.54	1.0	1.0
sec-Butylbenzene	ND	ug/L	0.67	1.0	1.0
Styrene	ND	ug/L	0.60	1.0	1.0
tert-Butylbenzene	ND	ug/L	0.61	1.0	1.0
Tetrachloroethene	ND	ug/L	0.48	1.0	1.0
1,1,1,2-Tetrachloroethane	ND	ug/L	0.61	1.0	1.0
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.50	1.0
Toluene	ND	ug/L	0.56	1.0	1.0
1,2,3-Trichlorobenzene	ND	ug/L	0.42	1.0	1.0
1,2,4-Trichlorobenzene	ND	ug/L	0.34	1.0	1.0
1,1,1-Trichloroethane	ND	ug/L	0.70	1.0	1.0
1,1,2-Trichloroethane	ND	ug/L	0.72	1.0	1.0
Trichloroethene	ND	ug/L	0.59	1.0	1.0
1,2,3-Trichloropropane	ND	ug/L	0.65	1.0	1.0
1,2,4-Trimethylbenzene	ND	ug/L	0.70	1.0	1.0
1,3,5-Trimethylbenzene	ND	ug/L	0.66	1.0	1.0
Vinyl chloride	ND	ug/L	0.46	0.50	1.0
Methyl tert-butyl ether	ND	ug/L	0.63	1.0	1.0

Surrogate			Acceptance Limits
Dibromofluoromethane	97	%	70 - 130
Toluene-d8 (Surr)	98	%	70 - 130
4-Bromofluorobenzene	90	%	70 - 130

Tentatively Identified Compounds			Cas Number	RT	
Tentatively Identified Compound	None	ug/L		0.00	1.0

DATA REPORTING QUALIFIERS

Client: Tighe & Bond

Job Number: 360-19524-1

Lab Section	Qualifier	Description
GC/MS VOA		
	*	LCS or LCSD exceeds the control limits
	J	Indicates an Estimated Value for TICs
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
	N	Presumptive evidence of material.
	T	Result is a tentatively identified compound (TIC) and an estimated value.
Metals		
	B	Compound was found in the blank and sample.

Login Sample Receipt Check List

Client: Tighe & Bond

Job Number: 360-19524-1

Login Number: 19524
Creator: Rinard, Kimberley A
List Number: 1

List Source: TestAmerica Westfield

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	0.0 C
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

SAMPLE COLLECTION DATA GROUND WATER

Client: Tighe & Bond, Inc.
53 Southampton Rd, Westfield, MA 01085
Contact: JJT
Collected By: CM
Date: 10/23/08
Weather: SUNNY 50°F

Job Number: A-308
Sampling Location: OLD AMHERST L.F.
Well No.: #5-08
Time Collected: 1345

Water Table

Diameter of Well: ~~2~~ 6 inches
Well Depth (from top of PVC standpipe): 180'00
Depth of Water Table (from top of PVC standpipe): 87.82'
Length of Water Column: 92.18' feet

Purge Volume: LWC x 0.17 / 0.38 / 0.08 (circle one) x 3 = 141.0354 Volume Purged 140 gallons

Purging Method: (please check)
Submersible pump ____ Teflon Bailer X Other (explain) ____

Sampling Method:
Type of Bailer: Teflon X ID# ____ Other (explain) ____ Dedicated Bailer (YES) NO
If not explain decontamination procedures

SAMPLE COLLECTION & FIELD DATA

Volume removed prior to analysis	pH	Specific Conductance µmhos/cm @25°C	Temperature °C	Dissolved Oxygen mg/L	—	Time Analyzed
140 gallons	8.00	122	9.28	2.14	—	1353

CONTAINERS & PRESERVATIVES

Type of Container	Number of Containers	Preservative Type/Amount	Analysis Required	Field pH
Plastic liter	1	6°C	Alk,NO3, TDS,CL, SO4	
500mL plastic	1	HNO3/2.5mL	D:Fe,Mn,As,Ba,Cd,Cr,Cu,Pb,Hg,Se,Ag,Zn	<2
250mL plastic	1	H2SO4/1mL	COD	<2
250mL plastic	1	NaOH/1mL	Total Cyanide	>12
40mL vial	4	HCL/0.5mL	VOA 8260 + Acetone, MEK, MIBK	<2
AMBER LITER	2	4.0°C	1,4 DIOXANE	—

If sample was taken for dissolved metals, were these samples field filtered? YES

Date: 10/23/08 Time: 1353 By: CM Filter Pore Size & Type: 0.45 micron Gelman

General Notes: PVC is
HACH pH meter Calibrated form 4.0/7.0/10.0 with buffers on:
YSI 85 Calibrated for Spec. Cond. To 1413 umhos/cm @25°C: 10/23/08 CM
YSI 85 Calibrated for Diss Oxygen To 96.5% @1000' :
* 6" well. Bailing took over 3 hrs prior to sampling. Recharge on well was good so water never dropped below 87.88'

90

TestAmerica Laboratories, Inc.
Chain of Custody Form

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

360-19524

•53 Southampton Road
Westfield, MA 01085
(P) 413-572-4000
(F) 413-572-3707

•148 Rangeway Road
N. Billerica, MA 01862
(P) 978-667-1400
(F) 978-667-7871

Job#: Quote: PO#:

Client: Tighe &Bond
Address: 53 Southampton Rd.
Westfield, MA 01085
Phone: 413-562-1600 Fax:

Job#: A 0308-7-03
Project Manager:
Work ID: Old Amherst LF
Contact: Jeff Theien

Requested Turn Around Time
15 Business Day ____ Rush ____
10 Business Day ____ Other ____

NPDES ____ Drinking Water ____ MCP Other ____
RCRA ____ MCP GW1 ____ Other ____

Sample Type Codes
WW-Wellwater W-Wastewater SW-Surfacewater LW-Labwater
RW-Raw Water GW-Groundwater PW-Public Water SO-Soil
S-Solid SL-Sludge O-Oil A-Air Z-Other

Shaded areas for office use

Analysis Requested
Check analysis and specify method and analytes in comments section.
For example:
500-series for drinking water
600-series for waste water
8000-series for haz/solid waste
Use comments section to further define.

Sample ID	Sample Type	Sampler's Initials	Date Time Collected	Grab	Comp.	# Containers	Plastic(P) or Glass(G)	NaHSO4/MeOH	HNO3 to pH <2	H2SO4 to pH <2	HCl to pH <2	NaOH to pH >2	Other:	4° C	pH	Volatiles	Semivolatiles	PCB & Pesticides	EPH	VPH	DRO/GRO (circle)	Oil & Grease	Metals	General Chemistry	Bacteriological	Other
WELL#5-08	GW	CM	10/23/08 1345	X										X												1
WELL#5-08	GW	CM		X		1	P							X										2		
WELL#5-08	GW	CM		X		1	P			X														3		
WELL#5-08	GW	CM		X		1	P					X														4
WELL#5-08	GW	CM		X		1	P		X														5			
WELL#5-08	GW	CM		X		4	G				X					6										
WELL#5-08	GW	CM		X		2	G							X			7									
TRIP BLANK	LW	CM	10/23/08																							

Preservative

Comments (Special Instructions)
1. pH_fd,Temp_fd,DO_fd,Sp.Cond_fd
2. Alk,NO3-n,TDS,Cl,SO4,Turb
3. COD
4. T. Cyanide
5. Diss: As,Ba,Cd,Cr,Cu,Fe,Mn, Pb,Hg,Se,Ag,Zn,Na,Ca,Hardness
6. VOA 8260 + MEK,MIBK,Acetone; Xylenes
6. ID unknown peaks @ 2x baseline
7. 1,4-Dioxane

Sampled by (print): CHARLIE MOON Signature: Charlie Moon

Relinquished by: Charlie Moon Date: 10/23/08 Time: 1535
Received by: [illegible] Date: 10/23/08 Time: 1535

Relinquished by: Date: Time:
Received by: Date: Time:

Method of shipment: TestAmerica Laboratories

Cooler: [illegible]
Temp @ receipt: [illegible]
Preservation/pH checked
By: [illegible] Date: 10/23/08

Q:/qaqc/dcontrol/SMF00500.MA