TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

NOV 0 4 2008

ANALYTICAL REPORT

Job Number: 360-19490-1

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
11/4/08 9:05 AM

Designee for
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Project Manager II
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11/04/2008

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.
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ACCREDITED IN ACCORDANCE WITH nelac

Job Narrative
360-J19490-1

GC/MS VOA
Method 8260B: The following sample was diluted due to sample foaming: 360-19490-2. Elevated reporting limits (RLs) are provided.

Metals
Method 6010B: Batch 37914: The method blank for batch 37914 contained Barium, Cadmium 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: 360-19490-1

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: 360-19490-1

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: 360-19490-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
360-19490-1	PGW-6	Water	10/21/2008 1145	10/21/2008 1555
360-19490-2	Well # 2-08	Water	10/21/2008 1355	10/21/2008 1555
360-19490-3	Trip Blank	Water	10/21/2008 1110	10/21/2008 1555
360-19490-4	Well # 3-08	Water	10/21/2008 1110	10/21/2008 1555

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Job Number: 360-19490-1

Client Sample ID: PGW-6
Lab Sample ID: 360-19490-1

Date Sampled: 10/21/2008 1145
Date Received: 10/21/2008 1555
Client Matrix: Water

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
Method: 8260B		Date Analyzed:	10/26/2008 0057		
Prep Method: 5030B		Date Prepared:	10/26/2008 0057		
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

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Date Received: 10/21/2008 1555
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)	97	%	70 - 130
4-Bromofluorobenzene	88	%	70 - 130

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

Method: 8270C Date Analyzed: 10/28/2008 1906
Prep Method: 3510C Date Prepared: 10/28/2008 0956

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

Surrogate			Acceptance Limits
2-Fluorobiphenyl	62	%	30 - 130
Nitrobenzene-d5	73	%	30 - 130
Terphenyl-d14	57	%	30 - 130

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Lab Sample ID: 360-19490-1

Date Sampled: 10/21/2008 1145
Date Received: 10/21/2008 1555
Client Matrix: Water

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Method: Dissolved-6010B			Date Analyzed:		10/24/2008 1704	
Silver	ND		ug/L	0.86	5.0	1.0
Barium	180	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	2.2	J	ug/L	1.6	10	1.0
Iron	560		ug/L	16	100	1.0
Manganese	2400	B	ug/L	0.33	10	1.0
Selenium	ND		ug/L	2.2	10	1.0
Zinc	18	J	ug/L	2.9	50	1.0
Sodium	19000		ug/L	65	2000	1.0
Calcium	26000		ug/L	27	400	1.0
Method: Dissolved-6020			Date Analyzed:		10/27/2008 1532	
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 1125	
Prep Method: 7470A			Date Prepared:		10/22/2008 0726	
Mercury	ND		ug/L	0.13	0.20	1.0
Method: SM 2340B			Date Analyzed:		10/24/2008 1704	
Hardness as calcium carbonate	95		mg/L	0.15	2.6	1.0

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Date Sampled: 10/21/2008 1145
Date Received: 10/21/2008 1555
Client Matrix: Water

Analyte	Result/Qualifier	Unit	RL	RL	Dilution
Method: 180.1		Date Analyzed:	10/22/2008 0857		
Turbidity	18000	NTU	2.0	2.0	20
Method: 300.0		Date Analyzed:	10/23/2008 0331		
Nitrate as N	0.13	mg/L	0.050	0.050	1.0
Sulfate	9.5	mg/L	2.0	2.0	1.0
Chloride	40	mg/L	1.0	1.0	1.0
Method: 410.4		Date Analyzed:	11/03/2008 0832		
Chemical Oxygen Demand	180	mg/L	40	40	2.0
Method: 9012A		Date Analyzed:	11/03/2008 1529		
Prep Method: 9012A		Date Prepared:	11/03/2008 1255		
Cyanide, Total	ND	mg/L	0.0060	0.0060	1.0
Method: SM 2320B		Date Analyzed:	10/22/2008 1157		
Alkalinity	67	mg/L	1.0	1.0	1.0
Method: SM 2540C		Date Analyzed:	10/28/2008 1400		
Total Dissolved Solids	180	mg/L	5.0	5.0	1.0

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Job Number: 360-19490-1

Client Sample ID: Well # 2-08
Lab Sample ID: 360-19490-2

Date Sampled: 10/21/2008 1355
Date Received: 10/21/2008 1555
Client Matrix: Water

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Method: 8260B			Date Analyzed:	10/26/2008 0119		
Prep Method: 5030B			Date Prepared:	10/26/2008 0119		
Acetone	ND		ug/L	100	250	5.0
Bromobenzene	ND		ug/L	3.2	5.0	5.0
Benzene	ND		ug/L	3.7	5.0	5.0
Bromodichloromethane	ND		ug/L	3.2	5.0	5.0
Bromochloromethane	ND		ug/L	3.9	5.0	5.0
Bromoform	ND		ug/L	3.0	5.0	5.0
Bromomethane	ND		ug/L	1.4	10	5.0
Methyl Ethyl Ketone	ND		ug/L	50	50	5.0
Carbon tetrachloride	ND		ug/L	3.6	5.0	5.0
Chlorobenzene	29		ug/L	3.2	5.0	5.0
Chlorodibromomethane	ND		ug/L	2.5	2.5	5.0
Chloroethane	ND		ug/L	2.0	10	5.0
Chloroform	ND		ug/L	3.3	5.0	5.0
Chloromethane	ND		ug/L	1.5	10	5.0
2-Chlorotoluene	ND		ug/L	3.2	5.0	5.0
4-Chlorotoluene	ND		ug/L	3.1	5.0	5.0
cis-1,2-Dichloroethene	ND		ug/L	3.2	5.0	5.0
trans-1,2-Dichloroethene	ND		ug/L	3.0	5.0	5.0
Dibromomethane	ND		ug/L	3.2	5.0	5.0
1,2-Dibromo-3-Chloropropane	ND		ug/L	2.9	25	5.0
1,2-Dichlorobenzene	ND		ug/L	3.1	5.0	5.0
1,3-Dichlorobenzene	4.2	J	ug/L	3.2	5.0	5.0
1,4-Dichlorobenzene	4.3	J	ug/L	3.1	5.0	5.0
1,1-Dichloroethane	ND		ug/L	3.4	5.0	5.0
1,1-Dichloroethene	ND		ug/L	3.2	5.0	5.0
1,2-Dichloroethane	ND		ug/L	3.1	5.0	5.0
1,2-Dichloropropane	ND		ug/L	2.6	5.0	5.0
1,3-Dichloropropane	ND		ug/L	2.8	5.0	5.0
2,2-Dichloropropane	ND	*	ug/L	3.0	5.0	5.0
1,1-Dichloropropene	ND		ug/L	3.4	5.0	5.0
cis-1,3-Dichloropropene	ND		ug/L	2.0	2.0	5.0
trans-1,3-Dichloropropene	ND		ug/L	2.0	2.0	5.0
Ethylbenzene	ND		ug/L	3.4	5.0	5.0
Ethylene Dibromide	ND		ug/L	2.7	5.0	5.0
Trichlorofluoromethane	ND		ug/L	1.5	5.0	5.0
1,4-Dioxane	ND		ug/L	38	250	5.0
2-Hexanone	ND		ug/L	36	50	5.0
Hexachlorobutadiene	ND		ug/L	2.0	2.0	5.0
Isopropylbenzene	ND		ug/L	2.8	5.0	5.0

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Job Number: 360-19490-1

Client Sample ID: Well # 2-08
Lab Sample ID: 360-19490-2

Date Sampled: 10/21/2008 1355
Date Received: 10/21/2008 1555
Client Matrix: Water

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
methyl isobutyl ketone	ND		ug/L	42	50	5.0
Methylene Chloride	ND		ug/L	5.0	10	5.0
n-Butylbenzene	ND		ug/L	3.0	5.0	5.0
N-Propylbenzene	ND		ug/L	3.5	5.0	5.0
Naphthalene	ND		ug/L	10	25	5.0
m-Xylene & p-Xylene	ND		ug/L	6.8	10	5.0
p-Isopropyltoluene	ND		ug/L	3.0	5.0	5.0
o-Xylene	ND		ug/L	2.7	5.0	5.0
sec-Butylbenzene	ND		ug/L	3.4	5.0	5.0
Styrene	ND		ug/L	3.0	5.0	5.0
tert-Butylbenzene	ND		ug/L	3.0	5.0	5.0
Tetrachloroethene	ND		ug/L	2.4	5.0	5.0
1,1,1,2-Tetrachloroethane	ND		ug/L	3.0	5.0	5.0
1,1,2,2-Tetrachloroethane	ND		ug/L	2.5	2.5	5.0
Toluene	ND		ug/L	2.8	5.0	5.0
1,2,3-Trichlorobenzene	ND		ug/L	2.1	5.0	5.0
1,2,4-Trichlorobenzene	ND		ug/L	1.7	5.0	5.0
1,1,1-Trichloroethane	ND		ug/L	3.5	5.0	5.0
1,1,2-Trichloroethane	ND		ug/L	3.6	5.0	5.0
Trichloroethene	ND		ug/L	3.0	5.0	5.0
1,2,3-Trichloropropane	ND		ug/L	3.2	5.0	5.0
1,2,4-Trimethylbenzene	ND		ug/L	3.5	5.0	5.0
1,3,5-Trimethylbenzene	ND		ug/L	3.3	5.0	5.0
Vinyl chloride	ND		ug/L	2.3	2.5	5.0
Methyl tert-butyl ether	ND		ug/L	3.2	5.0	5.0
Surrogate					Acceptance Limits	
Dibromofluoromethane	97		%		70 - 130	
Toluene-d8 (Surr)	97		%		70 - 130	
4-Bromofluorobenzene	89		%		70 - 130	
Tentatively Identified Compounds				Cas Number	RT	
Tentatively Identified Compound	None		ug/L		0.00	5.0
Ethyl ether	8.3	J	ug/L	60-29-7	2.82	5.0
Method: 8270C			Date Analyzed:	10/28/2008 2131		
Prep Method: 3510C			Date Prepared:	10/28/2008 0956		
1,4-Dioxane	ND		ug/L	0.11	1.0	1.0
Surrogate					Acceptance Limits	
2-Fluorobiphenyl	60		%		30 - 130	
Nitrobenzene-d5	80		%		30 - 130	
Terphenyl-d14	58		%		30 - 130	

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Job Number: 360-19490-1

Client Sample ID: Well # 2-08
Lab Sample ID: 360-19490-2

Date Sampled: 10/21/2008 1355
Date Received: 10/21/2008 1555
Client Matrix: Water

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Method: Dissolved-6010B			Date Analyzed:	10/24/2008 1707		
Silver	ND		ug/L	0.86	5.0	1.0
Barium	760	B	ug/L	0.25	10	1.0
Cadmium	1.0	B	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	69000		ug/L	16	100	1.0
Manganese	2000	B	ug/L	0.33	10	1.0
Selenium	ND		ug/L	2.2	10	1.0
Zinc	100		ug/L	2.9	50	1.0
Sodium	63000		ug/L	65	2000	1.0
Calcium	91000		ug/L	27	400	1.0
Method: Dissolved-6020			Date Analyzed:	10/28/2008 1236		
Arsenic	26		ug/L	0.40	1.0	1.0
Lead	0.43	J	ug/L	0.29	1.0	1.0
Method: Dissolved-7470A			Date Analyzed:	10/22/2008 1127		
Prep Method: 7470A			Date Prepared:	10/22/2008 0726		
Mercury	ND		ug/L	0.13	0.20	1.0
Method: SM 2340B			Date Analyzed:	10/24/2008 1707		
Hardness as calcium carbonate	330		mg/L	0.15	2.6	1.0

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Date Sampled: 10/21/2008 1355
Date Received: 10/21/2008 1555
Client Matrix: Water

Analyte	Result/Qualifier	Unit	RL	RL	Dilution
Method: 180.1		Date Analyzed:		10/22/2008 0859	
Turbidity	1200	NTU	1.0	1.0	10
Method: 300.0		Date Analyzed:		10/23/2008 0347	
Nitrate as N	ND	mg/L	0.050	0.050	1.0
Sulfate	8.7	mg/L	2.0	2.0	1.0
Method: 300.0		Date Analyzed:		10/23/2008 1505	
Chloride	55	mg/L	2.0	2.0	2.0
Method: 410.4		Date Analyzed:		11/03/2008 0832	
Chemical Oxygen Demand	120	mg/L	20	20	1.0
Method: 9012A		Date Analyzed:		11/03/2008 1530	
Prep Method: 9012A		Date Prepared:		11/03/2008 1255	
Cyanide, Total	ND	mg/L	0.0060	0.0060	1.0
Method: SM 2320B		Date Analyzed:		10/22/2008 1207	
Alkalinity	560	mg/L	1.0	1.0	1.0
Method: SM 2540C		Date Analyzed:		10/28/2008 1400	
Total Dissolved Solids	550	mg/L	5.0	5.0	1.0

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Job Number: 360-19490-1

Client Sample ID: Trip Blank
Lab Sample ID: 360-19490-3

Date Sampled: 10/21/2008 1110
Date Received: 10/21/2008 1555
Client Matrix: Water

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
Method: 8260B		Date Analyzed:	10/26/2008 0140		
Prep Method: 5030B		Date Prepared:	10/26/2008 0140		
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: 360-19490-1

Client Sample ID: Trip Blank
Lab Sample ID: 360-19490-3

Date Sampled: 10/21/2008 1110
Date Received: 10/21/2008 1555
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	98	%	70 - 130
Toluene-d8 (Surr)	98	%	70 - 130
4-Bromofluorobenzene	91	%	70 - 130

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

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

Job Number: 360-19490-1

Client Sample ID: Well # 3-08
Lab Sample ID: 360-19490-4

Date Sampled: 10/21/2008 1110
Date Received: 10/21/2008 1555
Client Matrix: Water

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
Method: 8260B		Date Analyzed:	10/26/2008 0201		
Prep Method: 5030B		Date Prepared:	10/26/2008 0201		
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: 360-19490-1

Client Sample ID: Well # 3-08
Lab Sample ID: 360-19490-4

Date Sampled: 10/21/2008 1110
Date Received: 10/21/2008 1555
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)	95	%	70 - 130
4-Bromofluorobenzene	88	%	70 - 130

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

Method: 8270C Date Analyzed: 10/28/2008 2102
Prep Method: 3510C Date Prepared: 10/28/2008 0956

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

Surrogate			Acceptance Limits
2-Fluorobiphenyl	62	%	30 - 130
Nitrobenzene-d5	73	%	30 - 130
Terphenyl-d14	55	%	30 - 130

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

Job Number: 360-19490-1

Client Sample ID: Well # 3-08
Lab Sample ID: 360-19490-4

Date Sampled: 10/21/2008 1110
Date Received: 10/21/2008 1555
Client Matrix: Water

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Method: Dissolved-6010B			Date Analyzed:		10/24/2008 1710	
Silver	ND		ug/L	0.86	5.0	1.0
Barium	170	B	ug/L	0.25	10	1.0
Cadmium	0.26	J B	ug/L	0.18	1.0	1.0
Chromium	ND		ug/L	0.17	5.0	1.0
Copper	2.6	J	ug/L	1.6	10	1.0
Iron	39	J	ug/L	16	100	1.0
Manganese	2900	B	ug/L	0.33	10	1.0
Selenium	ND		ug/L	2.2	10	1.0
Zinc	14	J	ug/L	2.9	50	1.0
Sodium	7400		ug/L	65	2000	1.0
Calcium	27000		ug/L	27	400	1.0
Method: Dissolved-6020			Date Analyzed:		10/28/2008 1239	
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 1132	
Prep Method: 7470A			Date Prepared:		10/22/2008 0726	
Mercury	ND		ug/L	0.13	0.20	1.0
Method: SM 2340B			Date Analyzed:		10/24/2008 1710	
Hardness as calcium carbonate	95		mg/L	0.15	2.6	1.0

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

Job Number: 360-19490-1

Client Sample ID: Well # 3-08
Lab Sample ID: 360-19490-4

Date Sampled: 10/21/2008 1110
Date Received: 10/21/2008 1555
Client Matrix: Water

Analyte	Result/Qualifier	Unit	RL	RL	Dilution
Method: 180.1		Date Analyzed:	10/22/2008 0901		
Turbidity	3200	NTU	1.0	1.0	10
Method: 300.0		Date Analyzed:	10/23/2008 0402		
Nitrate as N	3.8	mg/L	0.050	0.050	1.0
Sulfate	16	mg/L	2.0	2.0	1.0
Chloride	3.4	mg/L	1.0	1.0	1.0
Method: 410.4		Date Analyzed:	11/03/2008 0832		
Chemical Oxygen Demand	93	mg/L	40	40	2.0
Method: 9012A		Date Analyzed:	11/03/2008 1532		
Prep Method: 9012A		Date Prepared:	11/03/2008 1255		
Cyanide, Total	ND	mg/L	0.0060	0.0060	1.0
Method: SM 2320B		Date Analyzed:	10/22/2008 1213		
Alkalinity	89	mg/L	1.0	1.0	1.0
Method: SM 2540C		Date Analyzed:	10/28/2008 1400		
Total Dissolved Solids	180	mg/L	5.0	5.0	1.0

DATA REPORTING QUALIFIERS

Client: Tighe & Bond

Job Number: 360-19490-1

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.
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: 360-19490-1

Login Number: 19490
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	5.6 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
Date: 10/21/08
Weather: P. Sunny 50°F

Job Number: A-308
Sampling Location: Amherst LF
Well No.: PGW-6
Time Collected: 1145

Water Table

Diameter of Well: 2 inches
Well Depth (from top of PVC standpipe): 88.34'
Depth of Water Table (from top of PVC standpipe): 79.45'
Length of Water Column: 6.89' feet

Purge Volume: LWC x 0.17 / 0.38 / 0.08 (circle one) x 3 = 3.5139 Volume Purged 3.5 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
3.5 gallons	6.18	289	11.10	1.41	—	1148

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: 10/21/08 Time: 1148 By: AM 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
Date: 10/21/08
Weather: Showers 50°F

Job Number: A-308
Sampling Location: Old Amherst LF
Well No.: # 2-08
Time Collected: 1355

Water Table

Diameter of Well: 2 inches
Well Depth (from top of PVC standpipe): 81.96'
Depth of Water Table (from top of PVC standpipe): 78.21'
Length of Water Column: 3.75' feet

Purge Volume: LWC x 0.17 / 0.38 / 0.08 (circle one) x 3 = 1.9125 Volume Purged 2 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
2 gallons	6.42	1312	10.68	1.26		1410

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: 10/21/08 Time: 1410 By: AM 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
Date: 10/21/08

Job Number: A308
Sampling Location: Old Amherst LF
Well No.: # 3-08
Time Collected: 1110

Weather P. Sunny 50°F

Water Table

Diameter of Well 2 inches
Well Depth (from top of PVC standpipe) 84.96'
Depth of Water Table (from top of PVC standpipe) 78.33'
Length of Water Column 6.63' feet

Purge Volume: LWC x 0.17 / 0.38 / 0.08 (circle one) x 3 = 3.3713 Volume Purged 3.3 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
3.3 gallons	7.50	246	11.46	3.50	–	1115

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: 10/21/08 Time: 1115 By: AM 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 10/21/08
YSI 85 Calibrated for Diss Oxygen To 96.5% @1000' :

85

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Chain of Custody Form

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

360-19490

•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, RW-Raw Water, S-Solid, W-Wastewater, GW-Groundwater, SL-Sludge, SW-Surfacewater, PW-Public Water, O-Oil, LW-Labwater, SO-Soil, 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	Filt.	Volatiles	Semivolatiles	PCB & Pesticides	EPH	VPH	DRO/GRO (circle)	Oil & Grease	Metals	General Chemistry	Bacteriological	Other
PGW-6	GW	AM	10/21/08 1145	X										X												1
PGW-6	GW	AM		X		1	P							X										2		
PGW-6	GW	AM		X		1	P			X														3		
PGW-6	GW	AM		X		1	P					X														4
PGW-6	GW	AM		X		1	P		X														5			
PGW-6	GW	AM		X		4	G				X					6										
PGW-6	GW	AM		X		2	G							X			7									

Sampled by (print): Adam Marchell
Signature:

Relinquished by: Date: 10/21/08 Time: 1535
Received by: Date: 10/21/08 Time: 1555

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

Method of shipment: TestAmerica Laboratories

Cooler # 1 2 3 4 5 6
Temp @ receipt: 2.6°C
Preservation/pH checked
By: LW Date: 10/21/08

Page 1 of 1

1/3

Page 25 of 27

qaqc/ /SMF VA

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

360 19490

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
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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 #2-08	GW	AM	10/21/08 1355	X										X												1
well #2-08	GW	AM		X		1	P							X										2		
well #2-08	GW	AM		X		1	P			X														3		
well #2-08	GW	AM		X		1	P					X														4
well #2-08	GW	AM		X		1	P		X														5			
well #2-08	GW	AM		X		4	G				X					6										
well #2-08	GW	AM		X		2	G							X			7									
Trip Blank	LW	AM	10/21/08	X		2	G				X					6										

Sampled by (print): Adam Marshall
Signature:

Relinquished by: Date: 10/21/08 Time: 1555
Received by: Date: 10/21/08 Time: 1555

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

Method of shipment: TestAmerica Laboratories

Cooler: 1555 [illegible]
Temp @ receipt: 5.6°
Preservation pH checked
By: [illegible] Date: 10/21/08

Q:/qaqc/dcontrol/SMF00500.MA

TestAmerica Laboratories, Inc.
Chain of Custody Form

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

360 19490

•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

WO#: 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
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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	Volatiles	Semivolatiles	PCB & Pesticides	EPH	VPH	DRO/GRO (circle)	Oil & Grease	Metals	General Chemistry	Bacteriological	Other
Well #3-08	GW	AM	10/21/08 1110	X										X											1
Well #3-08	GW	AM		X		1	P							X									2		
Well #3-08	GW	AM		X		1	P			X													3		
Well #3-08	GW	AM		X		1	P					X													4
Well #3-08	GW	AM		X		1	P		X													5			
Well #3-08	GW	AM		X		4	G				X				6										
Well #3-08	GW	AM		X		2	G							X		7									

Sampled by (print): Adam Marshall
Signature:

Relinquished by: Date: 10/21/08 Time: 1555
Received by: Date: 10/21/08 Time: 1555

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

Method of shipment: TestAmerica Laboratories

Quote #:
Temp @ Receipt:
Preservation pH Checked
BY: Date:

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

OCT 31 2008

Job Number: 360-19460-1

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
10/31/08 9:48 AM

Designee for
Lisa A Worthington
Project Manager II
lisa.worthington@testamericainc.com
10/31/2008

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

Job Narrative
360-J19460-1

Comments

GC/MS VOA
Method 8260B: The following sample was diluted due to sediment: 360-19460-3. Elevated reporting limits (RLs) are provided.

GC/MS Semi VOA
Method 8270CLL: The following samples had surrogate phenol-d5 recoveries outside criteria. All samples had percent recoveries of 10% or greater. : 360-19460-1, 360-19460-2, and 360-19460-4. Per method SOP, re-extraction is only required if two or more surrogates from any one fraction or any single surrogate falls below 10%.

General Chemistry
Method 180.1: Sample 360-19460-3 had approximately 2 inches of sediment on the bottom of the 1L sample container. It was not possible to fully homogenize the sample for turbidity analysis. Therefore a "greater than" value was reported.

METHOD SUMMARY

Client: Tighe & Bond

Job Number: 360-19460-1

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: 360-19460-1

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: 360-19460-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
360-19460-1	Well # 1-83	Ground Water	10/20/2008 1050	10/20/2008 1540
360-19460-2	Well # 2-83	Ground Water	10/20/2008 1135	10/20/2008 1540
360-19460-3	Well # 3-83	Ground Water	10/20/2008 1230	10/20/2008 1540
360-19460-4	Well # 4-83	Ground Water	10/20/2008 1345	10/20/2008 1540
360-19460-5	Well # 4-08	Ground Water	10/20/2008 1400	10/20/2008 1540
360-19460-6TB	Trip Blank	Water	10/20/2008 1050	10/20/2008 1540

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

Job Number: 360-19460-1

Client Sample ID: Well # 1-83
Lab Sample ID: 360-19460-1

Date Sampled: 10/20/2008 1050
Date Received: 10/20/2008 1540
Client Matrix: Ground Water

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
Method: 8260B		Date Analyzed:	10/25/2008 0159		
Prep Method: 5030B		Date Prepared:	10/25/2008 0159		
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: 360-19460-1

Client Sample ID: Well # 1-83
Lab Sample ID: 360-19460-1

Date Sampled: 10/20/2008 1050
Date Received: 10/20/2008 1540
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	95	%	70 - 130
Toluene-d8 (Surr)	97	%	70 - 130
4-Bromofluorobenzene	89	%	70 - 130

Tentatively Identified Compounds				Cas Number	RT	
Ethanethiol	4.2	T J N	ug/L	000075-08-1	2.97	1.0
1-Propanethiol	2.1	T J N	ug/L	000107-03-9	4.77	1.0

Method: 8270C Date Analyzed: 10/24/2008 2026
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	64	%	15 - 110
2-Fluorobiphenyl	66	%	30 - 130
2-Fluorophenol	23	%	15 - 110

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

Job Number: 360-19460-1

Client Sample ID: Well # 1-83
Lab Sample ID: 360-19460-1

Date Sampled: 10/20/2008 1050
Date Received: 10/20/2008 1540
Client Matrix: Ground Water

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Surrogate					Acceptance Limits	
Nitrobenzene-d5	80		%		30 - 130	
Phenol-d5	14	X	%		15 - 110	
Terphenyl-d14	75		%		30 - 130	
Method: Dissolved-6010B			Date Analyzed:		10/22/2008 1614	
Silver	ND		ug/L	0.86	5.0	1.0
Barium	120		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	53	J	ug/L	16	100	1.0
Manganese	250		ug/L	0.33	10	1.0
Selenium	ND		ug/L	2.2	10	1.0
Zinc	3.7	J	ug/L	2.9	50	1.0
Sodium	6100		ug/L	65	2000	1.0
Calcium	35000		ug/L	27	400	1.0
Method: Dissolved-6020			Date Analyzed:		10/21/2008 1649	
Arsenic	2.4		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 0912	
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 1614	
Hardness as calcium carbonate	100		mg/L	0.15	2.6	1.0

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

Job Number: 360-19460-1

Client Sample ID: Well # 1-83
Lab Sample ID: 360-19460-1

Date Sampled: 10/20/2008 1050
Date Received: 10/20/2008 1540
Client Matrix: Ground Water

Analyte	Result/Qualifier	Unit	RL	RL	Dilution
Method: 180.1		Date Analyzed:		10/22/2008 0851	
Turbidity	0.68	NTU	0.10	0.10	1.0
Method: 300.0		Date Analyzed:		10/21/2008 1523	
Nitrate as N	ND	mg/L	0.050	0.050	1.0
Sulfate	28	mg/L	2.0	2.0	1.0
Chloride	9.6	mg/L	1.0	1.0	1.0
Method: 410.4		Date Analyzed:		10/28/2008 0913	
Chemical Oxygen Demand	ND	mg/L	20	20	1.0
Method: 9012A		Date Analyzed:		10/29/2008 1538	
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:		10/21/2008 0929	
Alkalinity	65	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: 360-19460-1

Client Sample ID: Well # 2-83
Lab Sample ID: 360-19460-2

Date Sampled: 10/20/2008 1135
Date Received: 10/20/2008 1540
Client Matrix: Ground Water

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Method: 8260B			Date Analyzed:	10/25/2008 0221		
Prep Method: 5030B			Date Prepared:	10/25/2008 0221		
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

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Job Number: 360-19460-1

Client Sample ID: Well # 2-83
Lab Sample ID: 360-19460-2

Date Sampled: 10/20/2008 1135
Date Received: 10/20/2008 1540
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)	98	%	70 - 130
4-Bromofluorobenzene	90	%	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 2055
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	60	%	15 - 110
2-Fluorobiphenyl	55	%	30 - 130
2-Fluorophenol	21	%	15 - 110
Nitrobenzene-d5	64	%	30 - 130

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Job Number: 360-19460-1

Client Sample ID: Well # 2-83
Lab Sample ID: 360-19460-2

Date Sampled: 10/20/2008 1135
Date Received: 10/20/2008 1540
Client Matrix: Ground Water

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Surrogate					Acceptance Limits	
Phenol-d5	13	X	%		15 - 110	
Terphenyl-d14	61		%		30 - 130	
Method: Dissolved-6010B			Date Analyzed:		10/22/2008 1623	
Silver	ND		ug/L	0.86	5.0	1.0
Barium	79		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	550		ug/L	16	100	1.0
Manganese	160		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	7700		ug/L	65	2000	1.0
Calcium	10000		ug/L	27	400	1.0
Method: Dissolved-6020			Date Analyzed:		10/21/2008 1652	
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 0914	
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 1623	
Hardness as calcium carbonate	46		mg/L	0.15	2.6	1.0

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Job Number: 360-19460-1

Client Sample ID: Well # 2-83
Lab Sample ID: 360-19460-2

Date Sampled: 10/20/2008 1135
Date Received: 10/20/2008 1540
Client Matrix: Ground Water

Analyte	Result/Qualifier	Unit	RL	RL	Dilution
Method: 180.1		Date Analyzed:		10/22/2008 0853	
Turbidity	130	NTU	0.10	0.10	1.0
Method: 300.0		Date Analyzed:		10/21/2008 1538	
Nitrate as N	ND	mg/L	0.050	0.050	1.0
Sulfate	ND	mg/L	2.0	2.0	1.0
Chloride	12	mg/L	1.0	1.0	1.0
Method: 410.4		Date Analyzed:		10/28/2008 0913	
Chemical Oxygen Demand	25	mg/L	20	20	1.0
Method: 9012A		Date Analyzed:		10/29/2008 1539	
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:		10/21/2008 0939	
Alkalinity	43	mg/L	1.0	1.0	1.0
Method: SM 2540C		Date Analyzed:		10/23/2008 1349	
Total Dissolved Solids	72	mg/L	5.0	5.0	1.0

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Job Number: 360-19460-1

Client Sample ID: Well # 3-83
Lab Sample ID: 360-19460-3

Date Sampled: 10/20/2008 1230
Date Received: 10/20/2008 1540
Client Matrix: Ground Water

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
Method: 8260B		Date Analyzed:	10/25/2008 0242		
Prep Method: 5030B		Date Prepared:	10/25/2008 0242		
Acetone	ND	ug/L	40	100	2.0
Bromobenzene	ND	ug/L	1.3	2.0	2.0
Benzene	ND	ug/L	1.5	2.0	2.0
Bromodichloromethane	ND	ug/L	1.3	2.0	2.0
Bromochloromethane	ND	ug/L	1.6	2.0	2.0
Bromoform	ND	ug/L	1.2	2.0	2.0
Bromomethane	ND	ug/L	0.55	4.0	2.0
Methyl Ethyl Ketone	ND	ug/L	20	20	2.0
Carbon tetrachloride	ND	ug/L	1.4	2.0	2.0
Chlorobenzene	ND	ug/L	1.3	2.0	2.0
Chlorodibromomethane	ND	ug/L	1.0	1.0	2.0
Chloroethane	ND	ug/L	0.81	4.0	2.0
Chloroform	ND	ug/L	1.3	2.0	2.0
Chloromethane	ND	ug/L	0.61	4.0	2.0
2-Chlorotoluene	ND	ug/L	1.3	2.0	2.0
4-Chlorotoluene	ND	ug/L	1.2	2.0	2.0
cis-1,2-Dichloroethene	ND	ug/L	1.3	2.0	2.0
trans-1,2-Dichloroethene	ND	ug/L	1.2	2.0	2.0
Dibromomethane	ND	ug/L	1.3	2.0	2.0
1,2-Dibromo-3-Chloropropane	ND	ug/L	1.2	10	2.0
1,2-Dichlorobenzene	ND	ug/L	1.2	2.0	2.0
1,3-Dichlorobenzene	ND	ug/L	1.3	2.0	2.0
1,4-Dichlorobenzene	ND	ug/L	1.2	2.0	2.0
1,1-Dichloroethane	ND	ug/L	1.3	2.0	2.0
1,1-Dichloroethene	ND	ug/L	1.3	2.0	2.0
1,2-Dichloroethane	ND	ug/L	1.2	2.0	2.0
1,2-Dichloropropane	ND	ug/L	1.0	2.0	2.0
1,3-Dichloropropane	ND	ug/L	1.1	2.0	2.0
2,2-Dichloropropane	ND *	ug/L	1.2	2.0	2.0
1,1-Dichloropropene	ND	ug/L	1.4	2.0	2.0
cis-1,3-Dichloropropene	ND	ug/L	0.80	0.80	2.0
trans-1,3-Dichloropropene	ND	ug/L	0.80	0.80	2.0
Ethylbenzene	ND	ug/L	1.3	2.0	2.0
Ethylene Dibromide	ND	ug/L	1.1	2.0	2.0
Trichlorofluoromethane	ND	ug/L	0.61	2.0	2.0
1,4-Dioxane	ND	ug/L	15	100	2.0
2-Hexanone	ND	ug/L	15	20	2.0
Hexachlorobutadiene	ND	ug/L	0.80	0.80	2.0
Isopropylbenzene	ND	ug/L	1.1	2.0	2.0

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Job Number: 360-19460-1

Client Sample ID: Well # 3-83
Lab Sample ID: 360-19460-3

Date Sampled: 10/20/2008 1230
Date Received: 10/20/2008 1540
Client Matrix: Ground Water

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
methyl isobutyl ketone	ND		ug/L	17	20	2.0
Methylene Chloride	ND		ug/L	2.0	4.0	2.0
n-Butylbenzene	ND		ug/L	1.2	2.0	2.0
N-Propylbenzene	ND		ug/L	1.4	2.0	2.0
Naphthalene	ND		ug/L	4.0	10	2.0
m-Xylene & p-Xylene	ND		ug/L	2.7	4.0	2.0
p-Isopropyltoluene	ND		ug/L	1.2	2.0	2.0
o-Xylene	ND		ug/L	1.1	2.0	2.0
sec-Butylbenzene	ND		ug/L	1.3	2.0	2.0
Styrene	ND		ug/L	1.2	2.0	2.0
tert-Butylbenzene	ND		ug/L	1.2	2.0	2.0
Tetrachloroethene	ND		ug/L	0.96	2.0	2.0
1,1,1,2-Tetrachloroethane	ND		ug/L	1.2	2.0	2.0
1,1,2,2-Tetrachloroethane	ND		ug/L	1.0	1.0	2.0
Toluene	ND		ug/L	1.1	2.0	2.0
1,2,3-Trichlorobenzene	ND		ug/L	0.84	2.0	2.0
1,2,4-Trichlorobenzene	ND		ug/L	0.68	2.0	2.0
1,1,1-Trichloroethane	ND		ug/L	1.4	2.0	2.0
1,1,2-Trichloroethane	ND		ug/L	1.4	2.0	2.0
Trichloroethene	ND		ug/L	1.2	2.0	2.0
1,2,3-Trichloropropane	ND		ug/L	1.3	2.0	2.0
1,2,4-Trimethylbenzene	ND		ug/L	1.4	2.0	2.0
1,3,5-Trimethylbenzene	ND		ug/L	1.3	2.0	2.0
Vinyl chloride	ND		ug/L	0.92	1.0	2.0
Methyl tert-butyl ether	ND		ug/L	1.3	2.0	2.0

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

Tentatively Identified Compounds				Cas Number	RT	
Ethanethiol	4.0	T J N	ug/L	000075-08-1	2.97	2.0

Method: 8270C Date Analyzed: 10/24/2008 2123
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	54	%	15 - 110
2-Fluorobiphenyl	62	%	30 - 130
2-Fluorophenol	30	%	15 - 110
Nitrobenzene-d5	81	%	30 - 130

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Job Number: 360-19460-1

Client Sample ID: Well # 3-83
Lab Sample ID: 360-19460-3

Date Sampled: 10/20/2008 1230
Date Received: 10/20/2008 1540
Client Matrix: Ground Water

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Surrogate					Acceptance Limits	
Phenol-d5	18		%		15 - 110	
Terphenyl-d14	79		%		30 - 130	
Method: Dissolved-6010B			Date Analyzed:		10/22/2008 1626	
Silver	ND		ug/L	0.86	5.0	1.0
Barium	58		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	460		ug/L	16	100	1.0
Manganese	37		ug/L	0.33	10	1.0
Selenium	ND		ug/L	2.2	10	1.0
Zinc	3.4	J	ug/L	2.9	50	1.0
Sodium	11000		ug/L	65	2000	1.0
Calcium	18000		ug/L	27	400	1.0
Method: Dissolved-6020			Date Analyzed:		10/21/2008 1654	
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 0916	
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 1626	
Hardness as calcium carbonate	64		mg/L	0.15	2.6	1.0

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Job Number: 360-19460-1

Client Sample ID: Well # 3-83
Lab Sample ID: 360-19460-3

Date Sampled: 10/20/2008 1230
Date Received: 10/20/2008 1540
Client Matrix: Ground Water

Analyte	Result/Qualifier	Unit	RL	RL	Dilution
Method: 180.1		Date Analyzed:		10/22/2008 0853	
Turbidity	>100000	NTU	0.10	0.10	1.0
Method: 300.0		Date Analyzed:		10/21/2008 1553	
Nitrate as N	ND	mg/L	0.050	0.050	1.0
Sulfate	7.2	mg/L	2.0	2.0	1.0
Chloride	20	mg/L	1.0	1.0	1.0
Method: 410.4		Date Analyzed:		10/28/2008 0913	
Chemical Oxygen Demand	970	mg/L	400	400	20
Method: 9012A		Date Analyzed:		10/29/2008 1540	
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:		10/21/2008 0944	
Alkalinity	52	mg/L	1.0	1.0	1.0
Method: SM 2540C		Date Analyzed:		10/23/2008 1349	
Total Dissolved Solids	110	mg/L	5.0	5.0	1.0

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Job Number: 360-19460-1

Client Sample ID: Well # 4-83
Lab Sample ID: 360-19460-4

Date Sampled: 10/20/2008 1345
Date Received: 10/20/2008 1540
Client Matrix: Ground Water

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
Method: 8260B		Date Analyzed:	10/25/2008 0303		
Prep Method: 5030B		Date Prepared:	10/25/2008 0303		
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

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Job Number: 360-19460-1

Client Sample ID: Well # 4-83
Lab Sample ID: 360-19460-4

Date Sampled: 10/20/2008 1345
Date Received: 10/20/2008 1540
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	97	%	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 2152
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	59	%	15 - 110
2-Fluorobiphenyl	59	%	30 - 130
2-Fluorophenol	22	%	15 - 110
Nitrobenzene-d5	72	%	30 - 130

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

Job Number: 360-19460-1

Client Sample ID: Well # 4-83
Lab Sample ID: 360-19460-4

Date Sampled: 10/20/2008 1345
Date Received: 10/20/2008 1540
Client Matrix: Ground Water

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Surrogate					Acceptance Limits	
Phenol-d5	13	X	%		15 - 110	
Terphenyl-d14	67		%		30 - 130	
Method: Dissolved-6010B			Date Analyzed:		10/22/2008 1629	
Silver	ND		ug/L	0.86	5.0	1.0
Barium	67		ug/L	0.25	10	1.0
Cadmium	0.22	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	2300		ug/L	16	100	1.0
Manganese	290		ug/L	0.33	10	1.0
Selenium	ND		ug/L	2.2	10	1.0
Zinc	24	J	ug/L	2.9	50	1.0
Sodium	13000		ug/L	65	2000	1.0
Calcium	14000		ug/L	27	400	1.0
Method: Dissolved-6020			Date Analyzed:		10/21/2008 1656	
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 0918	
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 1629	
Hardness as calcium carbonate	49		mg/L	0.15	2.6	1.0

Jeffery Thelen
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53 Southampton Road
Westfield, MA 01085

Job Number: 360-19460-1

Client Sample ID: Well # 4-83
Lab Sample ID: 360-19460-4

Date Sampled: 10/20/2008 1345
Date Received: 10/20/2008 1540
Client Matrix: Ground Water

Analyte	Result/Qualifier	Unit	RL	RL	Dilution
Method: 180.1		Date Analyzed:		10/22/2008 0854	
Turbidity	160	NTU	0.10	0.10	1.0
Method: 300.0		Date Analyzed:		10/21/2008 1609	
Nitrate as N	0.69	mg/L	0.050	0.050	1.0
Sulfate	9.5	mg/L	2.0	2.0	1.0
Chloride	30	mg/L	1.0	1.0	1.0
Method: 410.4		Date Analyzed:		10/28/2008 0913	
Chemical Oxygen Demand	ND	mg/L	20	20	1.0
Method: 9012A		Date Analyzed:		10/29/2008 1541	
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:		10/21/2008 0949	
Alkalinity	23	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
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53 Southampton Road
Westfield, MA 01085

Job Number: 360-19460-1

Client Sample ID: Well # 4-08
Lab Sample ID: 360-19460-5

Date Sampled: 10/20/2008 1400
Date Received: 10/20/2008 1540
Client Matrix: Ground Water

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Method: 8260B			Date Analyzed:	10/25/2008 0324		
Prep Method: 5030B			Date Prepared:	10/25/2008 0324		
Acetone	28	J	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	0.53	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: 360-19460-1

Client Sample ID: Well # 4-08
Lab Sample ID: 360-19460-5

Date Sampled: 10/20/2008 1400
Date Received: 10/20/2008 1540
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)	98	%	70 - 130
4-Bromofluorobenzene	90	%	70 - 130

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

Method: 8270C Date Analyzed: 10/28/2008 0409
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	67	%	15 - 110
2-Fluorobiphenyl	61	%	30 - 130
2-Fluorophenol	26	%	15 - 110
Nitrobenzene-d5	80	%	30 - 130

Jeffery Thelen
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53 Southampton Road
Westfield, MA 01085

Job Number: 360-19460-1

Client Sample ID: Well # 4-08
Lab Sample ID: 360-19460-5

Date Sampled: 10/20/2008 1400
Date Received: 10/20/2008 1540
Client Matrix: Ground Water

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Surrogate					Acceptance Limits	
Phenol-d5	17		%		15 - 110	
Terphenyl-d14	60		%		30 - 130	
Method: Dissolved-6010B			Date Analyzed:		10/22/2008 1631	
Silver	ND		ug/L	0.86	5.0	1.0
Barium	300		ug/L	0.25	10	1.0
Cadmium	ND		ug/L	0.18	1.0	1.0
Chromium	4.4	J	ug/L	0.17	5.0	1.0
Copper	23		ug/L	1.6	10	1.0
Iron	59	J	ug/L	16	100	1.0
Manganese	0.35	J	ug/L	0.33	10	1.0
Selenium	ND		ug/L	2.2	10	1.0
Zinc	2.9	J	ug/L	2.9	50	1.0
Sodium	180000		ug/L	65	2000	1.0
Calcium	140000		ug/L	27	400	1.0
Method: Dissolved-6020			Date Analyzed:		10/21/2008 1659	
Arsenic	0.84	J	ug/L	0.40	1.0	1.0
Lead	0.36	J	ug/L	0.29	1.0	1.0
Method: Dissolved-7470A			Date Analyzed:		10/22/2008 0920	
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 1631	
Hardness as calcium carbonate	340		mg/L	0.15	2.6	1.0

Jeffery Thelen
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53 Southampton Road
Westfield, MA 01085

Job Number: 360-19460-1

Client Sample ID: Well # 4-08
Lab Sample ID: 360-19460-5

Date Sampled: 10/20/2008 1400
Date Received: 10/20/2008 1540
Client Matrix: Ground Water

Analyte	Result/Qualifier	Unit	RL	RL	Dilution
Method: 180.1		Date Analyzed:		10/22/2008 0855	
Turbidity	93	NTU	0.10	0.10	1.0
Method: 300.0		Date Analyzed:		10/21/2008 1624	
Nitrate as N	0.39	mg/L	0.050	0.050	1.0
Sulfate	2.6	mg/L	2.0	2.0	1.0
Chloride	7.7	mg/L	1.0	1.0	1.0
Method: 410.4		Date Analyzed:		10/28/2008 0913	
Chemical Oxygen Demand	23	mg/L	20	20	1.0
Method: 9012A		Date Analyzed:		10/29/2008 1544	
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:		10/21/2008 1003	
Alkalinity	710	mg/L	1.0	1.0	1.0
Method: SM 2540C		Date Analyzed:		10/23/2008 1349	
Total Dissolved Solids	800	mg/L	5.0	5.0	1.0

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

Job Number: 360-19460-1

Client Sample ID: Trip Blank
Lab Sample ID: 360-19460-6

Date Sampled: 10/20/2008 1050
Date Received: 10/20/2008 1540
Client Matrix: Water

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
Method: 8260B		Date Analyzed:	10/25/2008 0346		
Prep Method: 5030B		Date Prepared:	10/25/2008 0346		
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: 360-19460-1

Client Sample ID: Trip Blank
Lab Sample ID: 360-19460-6

Date Sampled: 10/20/2008 1050
Date Received: 10/20/2008 1540
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)	97	%	70 - 130
4-Bromofluorobenzene	89	%	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: 360-19460-1

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.
GC/MS Semi VOA		
	*	RPD of the LCS and LCSD exceeds the control limits
	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: 360-19460-1

Login Number: 19460
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	3.6 C / 5.0 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: AM | CM
Date: 10/20/08
Weather: Sunny 50°F

Job Number: A-308
Sampling Location: Old Amherst LF
Well No.: #1-83
Time Collected: 1050

Water Table

Diameter of Well: 2 inches
Well Depth (from top of PVC standpipe): 110.00'
Depth of Water Table (from top of PVC standpipe): 0"
Length of Water Column: 110.00' feet

Purge Volume: LWC x 0.17 / 0.38 / 0.08 (circle one) x 3 = 55.1000 Volume Purged 56 gallons

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

Sampling Method:
Type of Bailer: Teflon _____ ID# _____ Other (explain) X _____ 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
56 GAL	7.23	210	10.67	1.56	–	1055

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: 10/20/08 Time: 1055 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: 10/20/08 CM
YSI 85 Calibrated for Diss Oxygen To 96.5% @1000':

X Artesian well. Self purging. Measured out 56 gallons purged prior to sampling. CM 10/20/08

80

SAMPLE COLLECTION DATA GROUND WATER

Client: Tighe & Bond, Inc.
53 Southampton Rd, Westfield, MA 01085
Contact: JJT
Collected By: AM/CM
Date: 10-20-08
Weather: Sunny 50°F

Job Number: ~~A-805~~ A-308
Sampling Location: OLD AMHERST L.F.
Well No.: WELL # 2-83
Time Collected: 1135

Water Table

Diameter of Well: 2 inches
Well Depth (from top of PVC standpipe): 89.88'
Depth of Water Table (from top of PVC standpipe): 0.21
Length of Water Column: 89.67' feet

Purge Volume: LWC x 0.17 / 0.38 / 0.08 (circle one) x 3 = 8 45.7317 Volume Purged 46 GAL

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
46 GAL	7.37	124	11.05	2.43	—	1145

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: 10/20/08 Time: 1145 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' :

81

SAMPLE COLLECTION DATA GROUND WATER

Client: Tighe & Bond, Inc.
53 Southampton Rd, Westfield, MA 01085
Contact: JJT
Collected By: AM/CM
Date: 10/20/08
Weather: Sunny 50°F

Job Number: A-308
Sampling Location: OLD AMHERST L.R.
Well No.: WELL # 3-83
Time Collected: 1230

Water Table

Diameter of Well: 2 inches
Well Depth (from top of PVC standpipe): 83.19'
Depth of Water Table (from top of PVC standpipe): 0.00'
Length of Water Column: 83.19' feet

Purge Volume: LWC x 0.17 / 0.38 / 0.08 (circle one) x 3 = 42.4269 Volume Purged 42.5

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
42.5 GAL	7.38	170	10.14	0.43	—	1236

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: 10/20/08 Time: 1236 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:
YSI 85 Calibrated for Diss Oxygen To 96.5% @1000' :

82

SAMPLE COLLECTION DATA GROUND WATER

Client: Tighe & Bond, Inc.
53 Southampton Rd, Westfield, MA 01085
Contact: JJT
Collected By: AM/CM
Date: 10/20/08
Weather: Sunny 50's F

Job Number: A-308
Sampling Location: Old Amherst LF
Well No.: Well # 4-08
Time Collected: 1400

Water Table

Diameter of Well: 2 inches
Well Depth (from top of PVC standpipe): 95.58'
Depth of Water Table (from top of PVC standpipe): 16.12'
Length of Water Column: 79.46' feet

Purge Volume: LWC x 0.17 / 0.38 / 0.08 (circle one) x 3 = 40.5246 Volume Purged 40.5 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
40.5	12.20	3317	12.18	4.23	–	1415

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: 10/20/08 Time: 1415 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' :

83

SAMPLE COLLECTION DATA GROUND WATER

Client: Tighe & Bond, Inc.
53 Southampton Rd, Westfield, MA 01085
Contact: JJT
Collected By: AMLCM
Date: 10/20/08

Job Number: A-308
Sampling Location: Old Amherst Rd
Well No.: #4-83
Time Collected: 1345

Weather: Sunny 50's F

Water Table

Diameter of Well: 2 inches
Well Depth (from top of PVC standpipe): 40.39'
Depth of Water Table (from top of PVC standpipe): 12.56'
Length of Water Column: 27.83' feet

Purge Volume: LWC x 0.17 / 0.38 / 0.08 (circle one) x 3 = 14.1933 Volume Purged 14 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
14 Gal	6.85	183	14.45	2.26	–	1400

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 bottles	2	4.0°	1,4-Dioxane	✓

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

Date: 10/20/08 Time: 1400 By: AMLCM 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' :

84

BL-Field-014
9/21/07

TestAmerica Laboratories, Inc.
Chain of Custody Form

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

360 19460

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(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)	NaHSO4/MeOH	HNO3 to pH <2	H2SO4 to pH <2	HCl to pH <2	NaOH to pH >2	Other:	4° C	Other	Volatiles	Semivolatiles	PCB & Pesticides	EPH	VPH	DRO/GRO (circle)	Oil & Grease	Metals	General Chemistry	Bacteriological	Other
well # 1-83	GW	CM	10/20/08 10:50	X										X												1
well # 1-83	GW	CM		X		1	P							X										2		
well # 1-83	GW	CM		X		1	P			X														3		
well # 1-83	GW	CM		X		1	P					X														4
well # 1-83	GW	CM		X		1	P		X														5			
well # 1-83	GW	CM		X		4	G				X					6										
well # 1-83	GW	CM		X		2	G							X			7									

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

Relinquished by: Date: 10/20/08 Time: 1540
Received by: Date: 10/20/08 Time: 1540

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

Method of shipment: TestAmerica Laboratories

Cooler # yes + no
Temp @ receipt 3.6 / 5.0°
Preservation/pH checked
By: Date:

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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

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	Volatiles	Semivolatiles	PCB & Pesticides	EPH	VPH	DRO/GRO (circle)	Oil & Grease	Metals	General Chemistry	Bacteriological	Other
Well # 2-83	GW	AM	10/20/08 1135	X										X											1
Well # 2-83	GW	AM		X		1	P							X									2		
Well # 2-83	GW	AM		X		1	P			X													3		
Well # 2-83	GW	AM		X		1	P					X													4
Well # 2-83	GW	AM		X		1	P		X													5			
Well # 2-83	GW	AM		X		4	G				X				6										
Well # 2-83	GW	AM		X		2	G							X		7									

Sampled by (print): Adam Marshall
Signature:

Relinquished by: Date: 10/20/08 Time: 1540
Received by: Date: 10/20/08 Time: 1540

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

Method of shipment: **TestAmerica Laboratories**

Cooler Present: Y
Temp @ receipt: 3.8 / 5.0
Preservation Pt. checked
By: Date: 10/21/08

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Q:/qaqc/dcontrol/SMF00500.MA

TestAmerica Laboratories, Inc.
Chain of Custody Form

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

360 19460

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•148 Rangeway Road
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(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

Shaded areas for office use

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

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

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 # 3-83	GW	CM	10/20/08 1230	X										X												1
well # 3-83	GW	CM		X		1	P							X										2		
well # 3-83	GW	CM		X		1	P			X														3		
well # 3-83	GW	CM		X		1	P					X														4
well # 3-83	GW	CM		X		1	P		X														5			
well # 3-83	GW	CM		X		4	G				X					6										
well # 3-83	GW	CM		X		2	G							X			7									

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

Relinquished by: Date: 10/20/08 Time: 1540
Received by: Date: 10/20/08 Time: 1540

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

Method of shipment: TestAmerica Laboratories

Cooler #: Temp @ receipt: 3.5-4.0°C
Preservation pH checked
By: Date:

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Chain of Custody Form

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THE LEADER IN ENVIRONMENTAL TESTING

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

360 19460

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	Oil Screen	Volatiles	Semivolatiles	PCB & Pesticides	EPH	VPH	DRO/GRO (circle)	Oil & Grease	Metals	General Chemistry	Bacteriological	Other
Well # 4-83	GW	CM	10/20/08 1345	X										X												1
Well # 4-83	GW	CM		X		1	P							X										2		
Well # 4-83	GW	CM		X		1	P			X														3		
Well # 4-83	GW	CM		X		1	P					X														4
Well # 4-83	GW	CM		X		1	P		X														5			
Well # 4-83	GW	CM		X		4	G				X					6										
Well # 4-83	GW	CM		X		2	G							X			7									

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

Relinquished by: Date: 10/20/08 Time: 1540
Received by: Date: 10/20/08 Time: 1540

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

Method of shipment: TestAmerica Laboratories

Cooler: 4.5 °C
Temp @ receipt: 3.6 °C
Preservation pH checked
By: Date: 10/20/08

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Q:/qaqc/dcontrol/SMF00500.MA

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Chain of Custody Form

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THE LEADER IN ENVIRONMENTAL TESTING

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(F) 978-667-7871

Job# 320 19460 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 # 4-08	GW	AM	10/20/08 1400	X										X												1
well # 4-08	GW	AM		X		1	P							X										2		
well # 4-08	GW	AM		X		1	P			X														3		
well # 4-08	GW	AM		X		1	P					X														4
well # 4-08	GW	AM		X		1	P		X														5			
well # 4-08	GW	AM		X		4	G				X					6										
well # 4-08	GW	AM		X		2	G							X			7									
Trip Blank	LW		10/20/08	X		2	G				X					6										

Sampled by (print): Adam Marshall
Signature:

Relinquished by: Date: 10/20/08 Time: 1540
Received by: Date: 10/20/08 Time: 1540

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

Method of shipment: TestAmerica Laboratories

Cooler# 1267
Temp @ receipt 3.0 - 1.0
Preservation(s) checked
By WZ Date 10/20/08

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

NOV 0 4 2008

ANALYTICAL REPORT

Job Number: 360-19509-1

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
11/4/08 9:09 AM

Designee for
Lisa A Worthington
Project Manager II
lisa.worthington@testamericainc.com
11/04/2008

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

Job Narrative
360-J19509-1

Metals
Method 6010B: Batch 37914: The method blank for batch 37914 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: 360-19509-1

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: 360-19509-1

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: 360-19509-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
360-19509-1	WELL #3-85	Ground Water	10/22/2008 1130	10/22/2008 1445
360-19509-2TB	TRIP BLANKS	Water	10/22/2008 1130	10/22/2008 1445

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

Job Number: 360-19509-1

Client Sample ID: WELL #3-85
Lab Sample ID: 360-19509-1

Date Sampled: 10/22/2008 1130
Date Received: 10/22/2008 1445
Client Matrix: Ground Water

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
Method: 8260B		Date Analyzed:	10/28/2008 0225		
Prep Method: 5030B		Date Prepared:	10/28/2008 0225		
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

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Date Sampled: 10/22/2008 1130
Date Received: 10/22/2008 1445
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)	94	%	70 - 130
4-Bromofluorobenzene	88	%	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: 10/28/2008 1935
Date Prepared: 10/28/2008 0956

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

Surrogate			Acceptance Limits
2-Fluorobiphenyl	64	%	30 - 130
Nitrobenzene-d5	79	%	30 - 130
Terphenyl-d14	64	%	30 - 130

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Client Sample ID: WELL #3-85
Lab Sample ID: 360-19509-1

Date Sampled: 10/22/2008 1130
Date Received: 10/22/2008 1445
Client Matrix: Ground Water

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Method: Dissolved-6010B			Date Analyzed:		10/24/2008 1721	
Silver	ND		ug/L	0.86	5.0	1.0
Barium	110	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	570		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	10	J	ug/L	2.9	50	1.0
Sodium	15000		ug/L	65	2000	1.0
Calcium	13000		ug/L	27	400	1.0
Method: Dissolved-6020			Date Analyzed:		10/27/2008 1539	
Lead	ND		ug/L	0.29	1.0	1.0
Method: Dissolved-6020			Date Analyzed:		10/28/2008 1234	
Arsenic	ND		ug/L	0.40	1.0	1.0
Method: Dissolved-7470A			Date Analyzed:		10/23/2008 1251	
Prep Method: 7470A			Date Prepared:		10/23/2008 0818	
Mercury	ND		ug/L	0.13	0.20	1.0
Method: SM 2340B			Date Analyzed:		10/24/2008 1721	
Hardness as calcium carbonate	49		mg/L	0.15	2.6	1.0

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Lab Sample ID: 360-19509-1

Date Sampled: 10/22/2008 1130
Date Received: 10/22/2008 1445
Client Matrix: Ground Water

Analyte	Result/Qualifier	Unit	RL	RL	Dilution
Method: 180.1		Date Analyzed:		10/23/2008 1015	
Turbidity	110	NTU	0.10	0.10	1.0
Method: 300.0		Date Analyzed:		10/23/2008 1420	
Nitrate as N	3.2	mg/L	0.050	0.050	1.0
Sulfate	12	mg/L	2.0	2.0	1.0
Chloride	26	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:		11/03/2008 1539	
Prep Method: 9012A		Date Prepared:		11/03/2008 1255	
Cyanide, Total	ND	mg/L	0.0060	0.0060	1.0
Method: SM 2320B		Date Analyzed:		10/23/2008 0922	
Alkalinity	17	mg/L	1.0	1.0	1.0
Method: SM 2540C		Date Analyzed:		10/29/2008 1449	
Total Dissolved Solids	150	mg/L	5.0	5.0	1.0

DATA REPORTING QUALIFIERS

Client: Tighe & Bond

Job Number: 360-19509-1

Lab Section	Qualifier	Description
GC/MS VOA		
	*	LCS or 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: 360-19509-1

Login Number: 19509
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	2.2 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: 10/22/08
Weather: Cloudy 50°F

Job Number: A-308
Sampling Location: OLD AMHERST L. F.
Well No.: #3-85
Time Collected: 1130

Water Table

Diameter of Well: 2 inches
Well Depth (from top of PVC standpipe): 45.28'
Depth of Water Table (from top of PVC standpipe): .00'
Length of Water Column: 45.28' feet

Purge Volume: LWC x 0.17 / 0.38 / 0.08 (circle one) x 3 = 23.0928 Volume Purged 23 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
23 gal	6.84	192	10.54	4.25	—	1132

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: 10/22/08 Time: 1132 By: 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: 10/22/08 CM
YSI 85 Calibrated for Diss Oxygen To 96.5% @1000' :

89

TestAmerica Laboratories, Inc.
Chain of Custody Form

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

360 19309

•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

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

Job#: Quote#: PO#:

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	Volatiles	Semivolatiles	PCB & Pesticides	EPH	VPH	DRO/GRO (circle)	Oil & Grease	Metals	General Chemistry	Bacteriological	Other
WELL #3-85	GW		10/22/08 1130	X										X											1
WELL #3-85	GW			X		1	P							X									2		
WELL #3-85	GW			X		1	P			X													3		
WELL #3-85	GW			X		1	P					X													4
WELL #3-85	GW			X		1	P		X													5			
WELL #3-85	GW			X		4	G				X				6										
WELL #3-85	GW	CM		X		2	G							X		7									
TRIP BLANKS	LW	CM	10/22/08	X		2	G				X														
10/21/08																									

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

Relinquished by: Charlie Moon Date: 10/22/08 Time: 1445
Received by: [illegible] Date: 10/22/08 Time: 1445

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

Method of shipment: TestAmerica Laboratories

Cooler: [illegible]
Temp @ receipt: [illegible]
Preservation pH checked
By: [illegible] Date: [illegible]

Page 15 of 15

Q:/qaqc/dcontrol/SMF00500.MA

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

OCT 29 2008

ANALYTICAL REPORT

Job Number: 360-19414-1

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
10/29/2008 11:42 AM

Designee for
Lisa A Worthington
Project Manager II
lisa.worthington@testamericainc.com
10/29/2008

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.

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

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TestAmerica Westfield Westfield Executive Park, 53 Southampton Road, Westfield, MA 01085
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ACCREDITED IN ACCORDANCE WITH nelac

METHOD SUMMARY

Client: Tighe & Bond

Job Number: 360-19414-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds (GC/MS)	TAL WFD	SW846 8260B	
Purge and Trap	TAL WFD		SW846 5030B

Lab References:

TAL WFD = TestAmerica Westfield

Method References:

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: 360-19414-1

Method	Analyst	Analyst ID
SW846 8260B	Tester, Carla	CT

SAMPLE SUMMARY

Client: Tighe & Bond

Job Number: 360-19414-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
360-19414-1	Well # 6-08	Ground Water	10/16/2008 0945	10/16/2008 1550
360-19414-2	Well # 7-08	Ground Water	10/16/2008 0945	10/16/2008 1550
360-19414-3	Well # 10-08	Ground Water	10/16/2008 1040	10/16/2008 1550
360-19414-4	Well # 11-08	Ground Water	10/16/2008 1025	10/16/2008 1550

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Job Number: 360-19414-1

Client Sample ID: Well # 6-08
Lab Sample ID: 360-19414-1

Date Sampled: 10/16/2008 0945
Date Received: 10/16/2008 1550
Client Matrix: Ground Water

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
Method: 8260B		Date Analyzed:	10/24/2008 1541		
Prep Method: 5030B		Date Prepared:	10/24/2008 1541		
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	3.4	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

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Job Number: 360-19414-1

Client Sample ID: Well # 6-08
Lab Sample ID: 360-19414-1

Date Sampled: 10/16/2008 0945
Date Received: 10/16/2008 1550
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	95	%	70 - 130
Toluene-d8 (Surr)	99	%	70 - 130
4-Bromofluorobenzene	90	%	70 - 130

Tentatively Identified Compounds				Cas Number	RT	
Methane, chlorofluoro-	3.0	T J N	ug/L	000593-70-4	2.00	1.0
Ethyl ether	2.8	J	ug/L	60-29-7	2.82	1.0

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Job Number: 360-19414-1

Client Sample ID: Well # 7-08
Lab Sample ID: 360-19414-2

Date Sampled: 10/16/2008 0945
Date Received: 10/16/2008 1550
Client Matrix: Ground Water

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
Method: 8260B		Date Analyzed:	10/24/2008 1602		
Prep Method: 5030B		Date Prepared:	10/24/2008 1602		
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

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Job Number: 360-19414-1

Client Sample ID: Well # 7-08
Lab Sample ID: 360-19414-2

Date Sampled: 10/16/2008 0945
Date Received: 10/16/2008 1550
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	95	%	70 - 130
Toluene-d8 (Surr)	94	%	70 - 130
4-Bromofluorobenzene	89	%	70 - 130

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

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Job Number: 360-19414-1

Client Sample ID: Well # 10-08
Lab Sample ID: 360-19414-3

Date Sampled: 10/16/2008 1040
Date Received: 10/16/2008 1550
Client Matrix: Ground Water

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Method: 8260B			Date Analyzed:	10/24/2008 1624		
Prep Method: 5030B			Date Prepared:	10/24/2008 1624		
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	0.87	J	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

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Job Number: 360-19414-1

Client Sample ID: Well # 10-08
Lab Sample ID: 360-19414-3

Date Sampled: 10/16/2008 1040
Date Received: 10/16/2008 1550
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	91	%	70 - 130

Tentatively Identified Compounds				Cas Number	RT	
Tentatively Identified Compound	None		ug/L		0.00	1.0
Ethyl ether	1.2	J	ug/L	60-29-7	2.82	1.0

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Job Number: 360-19414-1

Client Sample ID: Well # 11-08
Lab Sample ID: 360-19414-4

Date Sampled: 10/16/2008 1025
Date Received: 10/16/2008 1550
Client Matrix: Ground Water

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
Method: 8260B		Date Analyzed:	10/24/2008 1645		
Prep Method: 5030B		Date Prepared:	10/24/2008 1645		
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

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Job Number: 360-19414-1

Client Sample ID: Well # 11-08
Lab Sample ID: 360-19414-4

Date Sampled: 10/16/2008 1025
Date Received: 10/16/2008 1550
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	1.9	ug/L	0.63	1.0	1.0

Surrogate			Acceptance Limits
Dibromofluoromethane	95	%	70 - 130
Toluene-d8 (Surr)	94	%	70 - 130
4-Bromofluorobenzene	89	%	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: 360-19414-1

Lab Section	Qualifier	Description
GC/MS VOA		
	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.

Login Sample Receipt Check List

Client: Tighe & Bond

Job Number: 360-19414-1

Login Number: 19414
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	4.8 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: 10/11/08
Weather: Cloudy, 60's F

Job Number: A-308
Sampling Location: Old Amherst Lf
Well No.: #10-08
Time Collected: 1040

Water Table

Diameter of Well: 2 inches
Well Depth (from top of PVC standpipe): 91.99'
Depth of Water Table (from top of PVC standpipe): 5.45'
Length of Water Column: 86.54' feet

Purge Volume: LWC x 0.17 / 0.38 / 0.08 (circle one) x 3 = 44.1354 Volume Purged 44 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
–	–	–	–	–	–	–

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	

If sample was taken for dissolved metals, were these samples field filtered? N/A

Date: – Time: – By: – 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' :

* well resampled for VOA's only. [illegible] 10/11/08

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TestAmerica-WESTFIELD

BL-Field-014

SAMPLE COLLECTION DATA GROUND WATER

Client: Tighe & Bond, Inc.
53 Southampton Rd, Westfield, MA 01085
Contact: JJT
Collected By: AM/CM
Date: 10/11/08
Weather: Cloudy 60°F

Job Number: A308
Sampling Location: Old Amherst LF
Well No.: Well #11-08
Time Collected: 1025

Water Table

Diameter of Well: 2 inches
Well Depth (from top of PVC standpipe): 16.96'
Depth of Water Table (from top of PVC standpipe): 5.55'
Length of Water Column: 11.41' feet

Purge Volume: LWC x 0.17 / 0.38 / 0.08 (circle one) x 3 = 5.819' Volume Purged 5.8 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
—	—		—	—	—	—

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	

If sample was taken for dissolved metals, were these samples field filtered? N/A

Date: — Time: — By: — 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' :

* Well resampled for VOA's only 10/16/08

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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: 10/16/08
Weather: Cloudy 60°F

Job Number: A308
Sampling Location: Old Amherst LF
Well No.: well #6-08
Time Collected: 0945

Water Table

Diameter of Well: 2 inches
Well Depth (from top of PVC standpipe): 51.98' *
Depth of Water Table (from top of PVC standpipe): .01'
Length of Water Column: 51.89' feet

Purge Volume: LWC x 0.17 / 0.38 / 0.08 (circle one) x 3 = 26.5098 Volume Purged 26.5 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
—	—	—	—	—	—	—

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

If sample was taken for dissolved metals, were these samples field filtered? N/A

Date: — Time: — By: — 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' :

* resampled for VOA's only. AM 10/16/08

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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: 10/1/08
Weather: Cloudy 60°F

Job Number: A-308
Sampling Location: Old Amherst LF.
Well No.: Well # 7-08
Time Collected: 0945

Water Table

Diameter of Well: 2 inches
Well Depth (from top of PVC standpipe): 17.89'
Depth of Water Table (from top of PVC standpipe): 10.64'
Length of Water Column: 7.25' feet

Purge Volume: LWC x 0.17 / 0.38 / 0.08 (circle one) x 3 = 3.6975 Volume Purged 3.6 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
3.6 gallons	—	—	—	—	—	—

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	

If sample was taken for dissolved metals, were these samples field filtered? N/A

Date: — Time: — By: — 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 10/1/08
YSI 85 Calibrated for Diss Oxygen To 96.5% @1000':

* Location resampled for VOA's only. AM 10/1/08

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TestAmerica Laboratories, Inc.
Chain of Custody Form

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING 368-19414

•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)

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	Comments
well # C-08	GW	CM	10/16/08 0945	X		4	G									1											1. VOA 8260 + MEK,MIBK,Acetone; Xylenes 1. ID unknown peaks @ 2x baseline

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

Relinquished by: Date: 10/16/08 Time: 1550
Received by: Date: 10/16/08 Time: 1550

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

Method of shipment: **TestAmerica Laboratories**

Cooler # _____
Temp @ receipt _____ °C
Preservation/pH checked
By: _____ Date: _____

1/4

Q:/qaqc/dcontrol/SMF00500.MA

TestAmerica Laboratories, Inc.
Chain of Custody Form

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

360 19414

•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. VOA 8260 + MEK,MIBK,Acetone; Xylenes
1. ID unknown peaks @ 2x baseline

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	Volatiles	Semivolatiles	PCB & Pesticides	EPH	VPH	DRO/GRO (circle)	Oil & Grease	Metals	General Chemistry	Bacteriological	Other
Well # 7-08	GW	AM	10/16/08 0945	X		4	G								1										

Sampled by (print): Adam Marshall
Signature:

Relinquished by: Date: 10/16/08 Time: 1550
Received by: Date: 10/16/08 Time: 1550

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

Method of shipment: TestAmerica Laboratories

Cooler: ____
Temp @ receipt: ____
Preservation/pH checked
By: ____ Date: ____

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Page 1 of 1

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Q:/qaqc/dcontrol/SMF00500.MA

TestAmerica Laboratories, Inc.
Chain of Custody Form

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

360 19414

•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#: | Cooler: | 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)

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 # 10-08	GW	CM	10/16/08 1040	X		4	G									1										

Preservative

1. VOA 8260 + MEK,MIBK,Acetone; Xylenes
1. ID unknown peaks @ 2x baseline

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

Relinquished by: Date: 10/16/08 Time: 1550
Received by: Date: 10/16/08 Time: 1550

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

Method of shipment: **TestAmerica Laboratories**

Cooler#: ____
Temp @ receipt: ____
Preservation pH checked
By: ____ Date: ____

3/4

Q:/qaqc/dcontrol/SMF00500.MA

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

360 19414

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)

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	Other	Volatiles	Semivolatiles	PCB & Pesticides	EPH	VPH	DRO/GRO (circle)	Oil & Grease	Metals	General Chemistry	Bacteriological	Other
Well # 11-08	GW	AM	10/16/08 1025	X		4	G									1										

1. VOA 8260 + MEK,MIBK,Acetone; Xylenes
1. ID unknown peaks @ 2x baseline

Page 22 of 22

Sampled by (print): Adam Marshall
Signature:

Relinquished by: Date: 10/16/08 Time: 1550
Received by: Date: 10/16/08 Time: 1550

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

Method of shipment: **TestAmerica Laboratories**

Cooler #:
Temp @ receipt:
Preservation/pH checked
By: Date:

4/4

Q:/qaqc/dcontrol/SMF00500.MA