

Textron, Inc.
Former Gorham Manufacturing Facility, Providence, RI
Remedial Action Completion Report: Phase II Area – Mashapaug Inner Cove,
Phase III Area – Northeast Upland And Parcel C
Project No.: 3652160001
February 12, 2016



APPENDIX O
PARCEL C GROUNDWATER ANALYTICAL RESULTS
(JULY 2015 AND DECEMBER 2015)
(provided on CD)



CERTIFICATE OF ANALYSIS

Denise King
AMEC Environmental and Infrastructure
271 Mill Road
Chelmsford, MA 01824

RE: Textron Gorham - Groundwater (3652140032)
ESS Laboratory Work Order Number: 1507338

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard
Laboratory Director

REVIEWED
By ESS Laboratory at 3:18 pm, Jul 22, 2015

Analytical Summary

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with NELAC Standards, A2LA and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibrations, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.



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ESS Laboratory Work Order: 1507338

SAMPLE RECEIPT

The following samples were received on July 15, 2015 for the analyses specified on the enclosed Chain of Custody Record.

Revision 1 July 22, 2015: This report has been revised to include client name correction.

<u>Lab Number</u>	<u>Sample Name</u>	<u>Matrix</u>	<u>Analysis</u>
1507338-01	MW-235S	Ground Water	8260B
1507338-02	MW-236S	Ground Water	8260B
1507338-03	MW-237S	Ground Water	8260B
1507338-04	MW-D	Ground Water	8260B
1507338-05	MW-FS	Ground Water	8260B
1507338-06	DUP-01	Ground Water	8260B
1507338-07	Trip Blank-01	Aqueous	8260B
1507338-08	MW-241	Ground Water	8260B



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham - Groundwater

ESS Laboratory Work Order: 1507338

PROJECT NARRATIVE

8260B Volatile Organic Compounds

- CG51636-BS1 **Blank Spike recovery is above upper control limit (B+).**
Hexachloroethane (136% @ 70-130%)
- CG51636-MS1 **Due to high target values, matrix spike compound(s) is masked (MT).**
cis-1,2-Dichloroethene (-53% @ 70-130%), Trichloroethene (-1650% @ 70-130%)
- CG51636-MS1 **Matrix Spike recovery is below lower control limit (M-).**
Bromomethane (68% @ 70-130%)
- CG51636-MSD1 **Due to high target values, matrix spike compound(s) is masked (MT).**
cis-1,2-Dichloroethene (-41% @ 70-130%), Trichloroethene (-1590% @ 70-130%)
- CG51636-MSD1 **Matrix Spike recovery is above upper control limit (M+).**
Hexachloroethane (131% @ 70-130%)
- CG51742-BS1 **Matrix Spike recovery is above upper control limit (M+).**
Hexachloroethane (132% @ 70-130%)
- CYG0196-CCV1 **Continuing Calibration recovery is above upper control limit (C+).**
Bromoform (132% @ 70-130%)

No other observations noted.

End of Project Narrative.

DATA USABILITY LINKS

- [Definitions of Quality Control Parameters](#)
- [Semivolatile Organics Internal Standard Information](#)
- [Semivolatile Organics Surrogate Information](#)
- [Volatile Organics Internal Standard Information](#)
- [Volatile Organics Surrogate Information](#)
- [EPH and VPH Alkane Lists](#)



CERTIFICATE OF ANALYSIS

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ESS Laboratory Work Order: 1507338

CURRENT SW-846 METHODOLOGY VERSIONS

Analytical Methods

- 1010A - Flashpoint
- 6010C - ICP
- 6020A - ICP MS
- 7010 - Graphite Furnace
- 7196A - Hexavalent Chromium
- 7470A - Aqueous Mercury
- 7471B - Solid Mercury
- 8011 - EDB/DBCP/TCP
- 8015D - GRO/DRO
- 8081B - Pesticides
- 8082A - PCB
- 8100M - TPH
- 8151A - Herbicides
- 8260B - VOA
- 8270D - SVOA
- 8270D SIM - SVOA Low Level
- 9014 - Cyanide
- 9038 - Sulfate
- 9040C - Aqueous pH
- 9045D - Solid pH (Corrosivity)
- 9050A - Specific Conductance
- 9056A - Anions (IC)
- 9060A - TOC
- 9095B - Paint Filter
- MADEP 04-1.1 - EPH / VPH

Prep Methods

- 3005A - Aqueous ICP Digestion
- 3020A - Aqueous Graphite Furnace / ICP MS Digestion
- 3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
- 3060A - Solid Hexavalent Chromium Digestion
- 3510C - Separatory Funnel Extraction
- 3520C - Liquid / Liquid Extraction
- 3540C - Manual Soxhlet Extraction
- 3541 - Automated Soxhlet Extraction
- 3546 - Microwave Extraction
- 3580A - Waste Dilution
- 5030B - Aqueous Purge and Trap
- 5030C - Aqueous Purge and Trap
- 5035 - Solid Purge and Trap

SW846 Reactivity Methods 7.3.3.2 (Reactive Cyanide) and 7.3.4.1 (Reactive Sulfide) have been withdrawn by EPA. These methods are reported per client request and are not NELAP accredited.



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham - Groundwater
Client Sample ID: MW-235S
Date Sampled: 07/15/15 11:10
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1507338
ESS Laboratory Sample ID: 1507338-01
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1,1,2-Tetrachloroethane	ND (0.0010)		8260B		1	07/16/15 16:46	CYG0184	CG51636
1,1,1-Trichloroethane	ND (0.0010)		8260B		1	07/16/15 16:46	CYG0184	CG51636
1,1,2,2-Tetrachloroethane	ND (0.0005)		8260B		1	07/16/15 16:46	CYG0184	CG51636
1,1,2-Trichloroethane	ND (0.0010)		8260B		1	07/16/15 16:46	CYG0184	CG51636
1,1-Dichloroethane	ND (0.0010)		8260B		1	07/16/15 16:46	CYG0184	CG51636
1,1-Dichloroethene	ND (0.0010)		8260B		1	07/16/15 16:46	CYG0184	CG51636
1,1-Dichloropropene	ND (0.0020)		8260B		1	07/16/15 16:46	CYG0184	CG51636
1,2,3-Trichlorobenzene	ND (0.0010)		8260B		1	07/16/15 16:46	CYG0184	CG51636
1,2,3-Trichloropropane	ND (0.0010)		8260B		1	07/16/15 16:46	CYG0184	CG51636
1,2,4-Trichlorobenzene	ND (0.0010)		8260B		1	07/16/15 16:46	CYG0184	CG51636
1,2,4-Trimethylbenzene	ND (0.0010)		8260B		1	07/16/15 16:46	CYG0184	CG51636
1,2-Dibromo-3-Chloropropane	ND (0.0050)		8260B		1	07/16/15 16:46	CYG0184	CG51636
1,2-Dibromoethane	ND (0.0010)		8260B		1	07/16/15 16:46	CYG0184	CG51636
1,2-Dichlorobenzene	ND (0.0010)		8260B		1	07/16/15 16:46	CYG0184	CG51636
1,2-Dichloroethane	ND (0.0010)		8260B		1	07/16/15 16:46	CYG0184	CG51636
1,2-Dichloropropane	ND (0.0010)		8260B		1	07/16/15 16:46	CYG0184	CG51636
1,3,5-Trimethylbenzene	ND (0.0010)		8260B		1	07/16/15 16:46	CYG0184	CG51636
1,3-Dichlorobenzene	ND (0.0010)		8260B		1	07/16/15 16:46	CYG0184	CG51636
1,3-Dichloropropane	ND (0.0010)		8260B		1	07/16/15 16:46	CYG0184	CG51636
1,4-Dichlorobenzene	ND (0.0010)		8260B		1	07/16/15 16:46	CYG0184	CG51636
1,4-Dioxane - Screen	ND (0.500)		8260B		1	07/16/15 16:46	CYG0184	CG51636
1-Chlorohexane	ND (0.0010)		8260B		1	07/16/15 16:46	CYG0184	CG51636
2,2-Dichloropropane	ND (0.0010)		8260B		1	07/16/15 16:46	CYG0184	CG51636
2-Butanone	ND (0.0100)		8260B		1	07/16/15 16:46	CYG0184	CG51636
2-Chlorotoluene	ND (0.0010)		8260B		1	07/16/15 16:46	CYG0184	CG51636
2-Hexanone	ND (0.0100)		8260B		1	07/16/15 16:46	CYG0184	CG51636
4-Chlorotoluene	ND (0.0010)		8260B		1	07/16/15 16:46	CYG0184	CG51636
4-Isopropyltoluene	ND (0.0010)		8260B		1	07/16/15 16:46	CYG0184	CG51636
4-Methyl-2-Pentanone	ND (0.0250)		8260B		1	07/16/15 16:46	CYG0184	CG51636
Acetone	ND (0.0100)		8260B		1	07/16/15 16:46	CYG0184	CG51636
Benzene	ND (0.0010)		8260B		1	07/16/15 16:46	CYG0184	CG51636
Bromobenzene	ND (0.0020)		8260B		1	07/16/15 16:46	CYG0184	CG51636



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham - Groundwater
Client Sample ID: MW-235S
Date Sampled: 07/15/15 11:10
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1507338
ESS Laboratory Sample ID: 1507338-01
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Bromochloromethane	ND (0.0010)		8260B		1	07/16/15 16:46	CYG0184	CG51636
Bromodichloromethane	ND (0.0006)		8260B		1	07/16/15 16:46	CYG0184	CG51636
Bromoform	ND (0.0010)		8260B		1	07/16/15 16:46	CYG0184	CG51636
Bromomethane	ND (0.0020)		8260B		1	07/16/15 16:46	CYG0184	CG51636
Carbon Disulfide	ND (0.0010)		8260B		1	07/16/15 16:46	CYG0184	CG51636
Carbon Tetrachloride	ND (0.0010)		8260B		1	07/16/15 16:46	CYG0184	CG51636
Chlorobenzene	ND (0.0010)		8260B		1	07/16/15 16:46	CYG0184	CG51636
Chloroethane	ND (0.0020)		8260B		1	07/16/15 16:46	CYG0184	CG51636
Chloroform	ND (0.0010)		8260B		1	07/16/15 16:46	CYG0184	CG51636
Chloromethane	ND (0.0020)		8260B		1	07/16/15 16:46	CYG0184	CG51636
cis-1,2-Dichloroethene	0.0120 (0.0010)		8260B		1	07/16/15 16:46	CYG0184	CG51636
cis-1,3-Dichloropropene	ND (0.0004)		8260B		1	07/16/15 16:46	CYG0184	CG51636
Dibromochloromethane	ND (0.0010)		8260B		1	07/16/15 16:46	CYG0184	CG51636
Dibromomethane	ND (0.0010)		8260B		1	07/16/15 16:46	CYG0184	CG51636
Dichlorodifluoromethane	ND (0.0020)		8260B		1	07/16/15 16:46	CYG0184	CG51636
Diethyl Ether	ND (0.0010)		8260B		1	07/16/15 16:46	CYG0184	CG51636
Di-isopropyl ether	ND (0.0010)		8260B		1	07/16/15 16:46	CYG0184	CG51636
Ethyl tertiary-butyl ether	ND (0.0010)		8260B		1	07/16/15 16:46	CYG0184	CG51636
Ethylbenzene	ND (0.0010)		8260B		1	07/16/15 16:46	CYG0184	CG51636
Hexachlorobutadiene	ND (0.0006)		8260B		1	07/16/15 16:46	CYG0184	CG51636
Hexachloroethane	ND (0.0010)		8260B		1	07/16/15 16:46	CYG0184	CG51636
Isopropylbenzene	ND (0.0010)		8260B		1	07/16/15 16:46	CYG0184	CG51636
Methyl tert-Butyl Ether	ND (0.0010)		8260B		1	07/16/15 16:46	CYG0184	CG51636
Methylene Chloride	ND (0.0020)		8260B		1	07/16/15 16:46	CYG0184	CG51636
Naphthalene	ND (0.0010)		8260B		1	07/16/15 16:46	CYG0184	CG51636
n-Butylbenzene	ND (0.0010)		8260B		1	07/16/15 16:46	CYG0184	CG51636
n-Propylbenzene	ND (0.0010)		8260B		1	07/16/15 16:46	CYG0184	CG51636
sec-Butylbenzene	ND (0.0010)		8260B		1	07/16/15 16:46	CYG0184	CG51636
Styrene	ND (0.0010)		8260B		1	07/16/15 16:46	CYG0184	CG51636
tert-Butylbenzene	ND (0.0010)		8260B		1	07/16/15 16:46	CYG0184	CG51636
Tertiary-amyl methyl ether	ND (0.0010)		8260B		1	07/16/15 16:46	CYG0184	CG51636
Tetrachloroethene	0.0036 (0.0010)		8260B		1	07/16/15 16:46	CYG0184	CG51636



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham - Groundwater
Client Sample ID: MW-235S
Date Sampled: 07/15/15 11:10
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1507338
ESS Laboratory Sample ID: 1507338-01
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Tetrahydrofuran	ND (0.0050)		8260B		1	07/16/15 16:46	CYG0184	CG51636
Toluene	ND (0.0010)		8260B		1	07/16/15 16:46	CYG0184	CG51636
trans-1,2-Dichloroethene	ND (0.0010)		8260B		1	07/16/15 16:46	CYG0184	CG51636
trans-1,3-Dichloropropene	ND (0.0004)		8260B		1	07/16/15 16:46	CYG0184	CG51636
Trichloroethene	0.0169 (0.0010)		8260B		1	07/16/15 16:46	CYG0184	CG51636
Trichlorofluoromethane	ND (0.0010)		8260B		1	07/16/15 16:46	CYG0184	CG51636
Vinyl Acetate	ND (0.0050)		8260B		1	07/16/15 16:46	CYG0184	CG51636
Vinyl Chloride	ND (0.0010)		8260B		1	07/16/15 16:46	CYG0184	CG51636
Xylene O	ND (0.0010)		8260B		1	07/16/15 16:46	CYG0184	CG51636
Xylene P,M	ND (0.0020)		8260B		1	07/16/15 16:46	CYG0184	CG51636
Xylenes (Total)	ND (0.0020)		8260B		1	07/16/15 16:46		[CALC]
Trihalomethanes (Total)	ND (0.0010)		8260B			07/16/15 16:46		[CALC]

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>81 %</i>		<i>70-130</i>
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>78 %</i>		<i>70-130</i>
<i>Surrogate: Dibromofluoromethane</i>	<i>91 %</i>		<i>70-130</i>
<i>Surrogate: Toluene-d8</i>	<i>78 %</i>		<i>70-130</i>



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
 Client Project ID: Textron Gorham - Groundwater
 Client Sample ID: MW-236S
 Date Sampled: 07/15/15 10:45
 Percent Solids: N/A
 Initial Volume: 5
 Final Volume: 5
 Extraction Method: 5030B

ESS Laboratory Work Order: 1507338
 ESS Laboratory Sample ID: 1507338-02
 Sample Matrix: Ground Water
 Units: mg/L
 Analyst: MD

8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1,1,2-Tetrachloroethane	ND (0.0010)		8260B		1	07/16/15 17:11	CYG0184	CG51636
1,1,1-Trichloroethane	ND (0.0010)		8260B		1	07/16/15 17:11	CYG0184	CG51636
1,1,2,2-Tetrachloroethane	ND (0.0005)		8260B		1	07/16/15 17:11	CYG0184	CG51636
1,1,2-Trichloroethane	0.0055 (0.0010)		8260B		1	07/16/15 17:11	CYG0184	CG51636
1,1-Dichloroethane	ND (0.0010)		8260B		1	07/16/15 17:11	CYG0184	CG51636
1,1-Dichloroethene	0.0035 (0.0010)		8260B		1	07/16/15 17:11	CYG0184	CG51636
1,1-Dichloropropene	ND (0.0020)		8260B		1	07/16/15 17:11	CYG0184	CG51636
1,2,3-Trichlorobenzene	ND (0.0010)		8260B		1	07/16/15 17:11	CYG0184	CG51636
1,2,3-Trichloropropane	ND (0.0010)		8260B		1	07/16/15 17:11	CYG0184	CG51636
1,2,4-Trichlorobenzene	ND (0.0010)		8260B		1	07/16/15 17:11	CYG0184	CG51636
1,2,4-Trimethylbenzene	ND (0.0010)		8260B		1	07/16/15 17:11	CYG0184	CG51636
1,2-Dibromo-3-Chloropropane	ND (0.0050)		8260B		1	07/16/15 17:11	CYG0184	CG51636
1,2-Dibromoethane	ND (0.0010)		8260B		1	07/16/15 17:11	CYG0184	CG51636
1,2-Dichlorobenzene	ND (0.0010)		8260B		1	07/16/15 17:11	CYG0184	CG51636
1,2-Dichloroethane	0.0031 (0.0010)		8260B		1	07/16/15 17:11	CYG0184	CG51636
1,2-Dichloropropane	ND (0.0010)		8260B		1	07/16/15 17:11	CYG0184	CG51636
1,3,5-Trimethylbenzene	ND (0.0010)		8260B		1	07/16/15 17:11	CYG0184	CG51636
1,3-Dichlorobenzene	ND (0.0010)		8260B		1	07/16/15 17:11	CYG0184	CG51636
1,3-Dichloropropane	ND (0.0010)		8260B		1	07/16/15 17:11	CYG0184	CG51636
1,4-Dichlorobenzene	ND (0.0010)		8260B		1	07/16/15 17:11	CYG0184	CG51636
1,4-Dioxane - Screen	ND (0.500)		8260B		1	07/16/15 17:11	CYG0184	CG51636
1-Chlorohexane	ND (0.0010)		8260B		1	07/16/15 17:11	CYG0184	CG51636
2,2-Dichloropropane	ND (0.0010)		8260B		1	07/16/15 17:11	CYG0184	CG51636
2-Butanone	ND (0.0100)		8260B		1	07/16/15 17:11	CYG0184	CG51636
2-Chlorotoluene	ND (0.0010)		8260B		1	07/16/15 17:11	CYG0184	CG51636
2-Hexanone	ND (0.0100)		8260B		1	07/16/15 17:11	CYG0184	CG51636
4-Chlorotoluene	ND (0.0010)		8260B		1	07/16/15 17:11	CYG0184	CG51636
4-Isopropyltoluene	ND (0.0010)		8260B		1	07/16/15 17:11	CYG0184	CG51636
4-Methyl-2-Pentanone	ND (0.0250)		8260B		1	07/16/15 17:11	CYG0184	CG51636
Acetone	ND (0.0100)		8260B		1	07/16/15 17:11	CYG0184	CG51636
Benzene	ND (0.0010)		8260B		1	07/16/15 17:11	CYG0184	CG51636
Bromobenzene	ND (0.0020)		8260B		1	07/16/15 17:11	CYG0184	CG51636



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham - Groundwater
Client Sample ID: MW-236S
Date Sampled: 07/15/15 10:45
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1507338
ESS Laboratory Sample ID: 1507338-02
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Bromochloromethane	ND (0.0010)		8260B		1	07/16/15 17:11	CYG0184	CG51636
Bromodichloromethane	ND (0.0006)		8260B		1	07/16/15 17:11	CYG0184	CG51636
Bromoform	ND (0.0010)		8260B		1	07/16/15 17:11	CYG0184	CG51636
Bromomethane	ND (0.0020)		8260B		1	07/16/15 17:11	CYG0184	CG51636
Carbon Disulfide	0.0064 (0.0010)		8260B		1	07/16/15 17:11	CYG0184	CG51636
Carbon Tetrachloride	ND (0.0010)		8260B		1	07/16/15 17:11	CYG0184	CG51636
Chlorobenzene	ND (0.0010)		8260B		1	07/16/15 17:11	CYG0184	CG51636
Chloroethane	ND (0.0020)		8260B		1	07/16/15 17:11	CYG0184	CG51636
Chloroform	ND (0.0010)		8260B		1	07/16/15 17:11	CYG0184	CG51636
Chloromethane	ND (0.0020)		8260B		1	07/16/15 17:11	CYG0184	CG51636
cis-1,2-Dichloroethene	0.0977 (0.0010)		8260B		1	07/16/15 17:11	CYG0184	CG51636
cis-1,3-Dichloropropene	ND (0.0004)		8260B		1	07/16/15 17:11	CYG0184	CG51636
Dibromochloromethane	ND (0.0010)		8260B		1	07/16/15 17:11	CYG0184	CG51636
Dibromomethane	ND (0.0010)		8260B		1	07/16/15 17:11	CYG0184	CG51636
Dichlorodifluoromethane	ND (0.0020)		8260B		1	07/16/15 17:11	CYG0184	CG51636
Diethyl Ether	ND (0.0010)		8260B		1	07/16/15 17:11	CYG0184	CG51636
Di-isopropyl ether	ND (0.0010)		8260B		1	07/16/15 17:11	CYG0184	CG51636
Ethyl tertiary-butyl ether	ND (0.0010)		8260B		1	07/16/15 17:11	CYG0184	CG51636
Ethylbenzene	ND (0.0010)		8260B		1	07/16/15 17:11	CYG0184	CG51636
Hexachlorobutadiene	ND (0.0006)		8260B		1	07/16/15 17:11	CYG0184	CG51636
Hexachloroethane	ND (0.0010)		8260B		1	07/16/15 17:11	CYG0184	CG51636
Isopropylbenzene	ND (0.0010)		8260B		1	07/16/15 17:11	CYG0184	CG51636
Methyl tert-Butyl Ether	ND (0.0010)		8260B		1	07/16/15 17:11	CYG0184	CG51636
Methylene Chloride	ND (0.0020)		8260B		1	07/16/15 17:11	CYG0184	CG51636
Naphthalene	ND (0.0010)		8260B		1	07/16/15 17:11	CYG0184	CG51636
n-Butylbenzene	ND (0.0010)		8260B		1	07/16/15 17:11	CYG0184	CG51636
n-Propylbenzene	ND (0.0010)		8260B		1	07/16/15 17:11	CYG0184	CG51636
sec-Butylbenzene	ND (0.0010)		8260B		1	07/16/15 17:11	CYG0184	CG51636
Styrene	ND (0.0010)		8260B		1	07/16/15 17:11	CYG0184	CG51636
tert-Butylbenzene	ND (0.0010)		8260B		1	07/16/15 17:11	CYG0184	CG51636
Tertiary-amyl methyl ether	ND (0.0010)		8260B		1	07/16/15 17:11	CYG0184	CG51636
Tetrachloroethene	ND (0.0010)		8260B		1	07/16/15 17:11	CYG0184	CG51636



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham - Groundwater
Client Sample ID: MW-236S
Date Sampled: 07/15/15 10:45
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1507338
ESS Laboratory Sample ID: 1507338-02
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Tetrahydrofuran	ND (0.0050)		8260B		1	07/16/15 17:11	CYG0184	CG51636
Toluene	ND (0.0010)		8260B		1	07/16/15 17:11	CYG0184	CG51636
trans-1,2-Dichloroethene	ND (0.0010)		8260B		1	07/16/15 17:11	CYG0184	CG51636
trans-1,3-Dichloropropene	ND (0.0004)		8260B		1	07/16/15 17:11	CYG0184	CG51636
Trichloroethene	0.191 (0.0100)		8260B		10	07/17/15 15:42	CYG0184	CG51636
Trichlorofluoromethane	ND (0.0010)		8260B		1	07/16/15 17:11	CYG0184	CG51636
Vinyl Acetate	ND (0.0050)		8260B		1	07/16/15 17:11	CYG0184	CG51636
Vinyl Chloride	0.0018 (0.0010)		8260B		1	07/16/15 17:11	CYG0184	CG51636
Xylene O	ND (0.0010)		8260B		1	07/16/15 17:11	CYG0184	CG51636
Xylene P,M	ND (0.0020)		8260B		1	07/16/15 17:11	CYG0184	CG51636
Xylenes (Total)	ND (0.0020)		8260B		1	07/16/15 17:11		[CALC]
Trihalomethanes (Total)	ND (0.0010)		8260B			07/16/15 17:11		[CALC]

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>83 %</i>		<i>70-130</i>
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>77 %</i>		<i>70-130</i>
<i>Surrogate: Dibromofluoromethane</i>	<i>93 %</i>		<i>70-130</i>
<i>Surrogate: Toluene-d8</i>	<i>79 %</i>		<i>70-130</i>



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham - Groundwater
Client Sample ID: MW-237S
Date Sampled: 07/15/15 09:45
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1507338
ESS Laboratory Sample ID: 1507338-03
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1,1,2-Tetrachloroethane	ND (0.0010)		8260B		1	07/16/15 17:37	CYG0184	CG51636
1,1,1-Trichloroethane	ND (0.0010)		8260B		1	07/16/15 17:37	CYG0184	CG51636
1,1,2,2-Tetrachloroethane	ND (0.0005)		8260B		1	07/16/15 17:37	CYG0184	CG51636
1,1,2-Trichloroethane	ND (0.0010)		8260B		1	07/16/15 17:37	CYG0184	CG51636
1,1-Dichloroethane	ND (0.0010)		8260B		1	07/16/15 17:37	CYG0184	CG51636
1,1-Dichloroethene	0.0020 (0.0010)		8260B		1	07/16/15 17:37	CYG0184	CG51636
1,1-Dichloropropene	ND (0.0020)		8260B		1	07/16/15 17:37	CYG0184	CG51636
1,2,3-Trichlorobenzene	ND (0.0010)		8260B		1	07/16/15 17:37	CYG0184	CG51636
1,2,3-Trichloropropane	ND (0.0010)		8260B		1	07/16/15 17:37	CYG0184	CG51636
1,2,4-Trichlorobenzene	ND (0.0010)		8260B		1	07/16/15 17:37	CYG0184	CG51636
1,2,4-Trimethylbenzene	ND (0.0010)		8260B		1	07/16/15 17:37	CYG0184	CG51636
1,2-Dibromo-3-Chloropropane	ND (0.0050)		8260B		1	07/16/15 17:37	CYG0184	CG51636
1,2-Dibromoethane	ND (0.0010)		8260B		1	07/16/15 17:37	CYG0184	CG51636
1,2-Dichlorobenzene	ND (0.0010)		8260B		1	07/16/15 17:37	CYG0184	CG51636
1,2-Dichloroethane	0.0020 (0.0010)		8260B		1	07/16/15 17:37	CYG0184	CG51636
1,2-Dichloropropane	ND (0.0010)		8260B		1	07/16/15 17:37	CYG0184	CG51636
1,3,5-Trimethylbenzene	ND (0.0010)		8260B		1	07/16/15 17:37	CYG0184	CG51636
1,3-Dichlorobenzene	ND (0.0010)		8260B		1	07/16/15 17:37	CYG0184	CG51636
1,3-Dichloropropane	ND (0.0010)		8260B		1	07/16/15 17:37	CYG0184	CG51636
1,4-Dichlorobenzene	ND (0.0010)		8260B		1	07/16/15 17:37	CYG0184	CG51636
1,4-Dioxane - Screen	ND (0.500)		8260B		1	07/16/15 17:37	CYG0184	CG51636
1-Chlorohexane	ND (0.0010)		8260B		1	07/16/15 17:37	CYG0184	CG51636
2,2-Dichloropropane	ND (0.0010)		8260B		1	07/16/15 17:37	CYG0184	CG51636
2-Butanone	ND (0.0100)		8260B		1	07/16/15 17:37	CYG0184	CG51636
2-Chlorotoluene	ND (0.0010)		8260B		1	07/16/15 17:37	CYG0184	CG51636
2-Hexanone	ND (0.0100)		8260B		1	07/16/15 17:37	CYG0184	CG51636
4-Chlorotoluene	ND (0.0010)		8260B		1	07/16/15 17:37	CYG0184	CG51636
4-Isopropyltoluene	ND (0.0010)		8260B		1	07/16/15 17:37	CYG0184	CG51636
4-Methyl-2-Pentanone	ND (0.0250)		8260B		1	07/16/15 17:37	CYG0184	CG51636
Acetone	ND (0.0100)		8260B		1	07/16/15 17:37	CYG0184	CG51636
Benzene	ND (0.0010)		8260B		1	07/16/15 17:37	CYG0184	CG51636
Bromobenzene	ND (0.0020)		8260B		1	07/16/15 17:37	CYG0184	CG51636



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham - Groundwater
Client Sample ID: MW-237S
Date Sampled: 07/15/15 09:45
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1507338
ESS Laboratory Sample ID: 1507338-03
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Bromochloromethane	ND (0.0010)		8260B		1	07/16/15 17:37	CYG0184	CG51636
Bromodichloromethane	ND (0.0006)		8260B		1	07/16/15 17:37	CYG0184	CG51636
Bromoform	ND (0.0010)		8260B		1	07/16/15 17:37	CYG0184	CG51636
Bromomethane	ND (0.0020)		8260B		1	07/16/15 17:37	CYG0184	CG51636
Carbon Disulfide	0.0038 (0.0010)		8260B		1	07/16/15 17:37	CYG0184	CG51636
Carbon Tetrachloride	ND (0.0010)		8260B		1	07/16/15 17:37	CYG0184	CG51636
Chlorobenzene	ND (0.0010)		8260B		1	07/16/15 17:37	CYG0184	CG51636
Chloroethane	ND (0.0020)		8260B		1	07/16/15 17:37	CYG0184	CG51636
Chloroform	ND (0.0010)		8260B		1	07/16/15 17:37	CYG0184	CG51636
Chloromethane	ND (0.0020)		8260B		1	07/16/15 17:37	CYG0184	CG51636
cis-1,2-Dichloroethene	0.0912 (0.0010)		8260B		1	07/16/15 17:37	CYG0184	CG51636
cis-1,3-Dichloropropene	ND (0.0004)		8260B		1	07/16/15 17:37	CYG0184	CG51636
Dibromochloromethane	ND (0.0010)		8260B		1	07/16/15 17:37	CYG0184	CG51636
Dibromomethane	ND (0.0010)		8260B		1	07/16/15 17:37	CYG0184	CG51636
Dichlorodifluoromethane	ND (0.0020)		8260B		1	07/16/15 17:37	CYG0184	CG51636
Diethyl Ether	ND (0.0010)		8260B		1	07/16/15 17:37	CYG0184	CG51636
Di-isopropyl ether	ND (0.0010)		8260B		1	07/16/15 17:37	CYG0184	CG51636
Ethyl tertiary-butyl ether	ND (0.0010)		8260B		1	07/16/15 17:37	CYG0184	CG51636
Ethylbenzene	ND (0.0010)		8260B		1	07/16/15 17:37	CYG0184	CG51636
Hexachlorobutadiene	ND (0.0006)		8260B		1	07/16/15 17:37	CYG0184	CG51636
Hexachloroethane	ND (0.0010)		8260B		1	07/16/15 17:37	CYG0184	CG51636
Isopropylbenzene	ND (0.0010)		8260B		1	07/16/15 17:37	CYG0184	CG51636
Methyl tert-Butyl Ether	ND (0.0010)		8260B		1	07/16/15 17:37	CYG0184	CG51636
Methylene Chloride	ND (0.0020)		8260B		1	07/16/15 17:37	CYG0184	CG51636
Naphthalene	ND (0.0010)		8260B		1	07/16/15 17:37	CYG0184	CG51636
n-Butylbenzene	ND (0.0010)		8260B		1	07/16/15 17:37	CYG0184	CG51636
n-Propylbenzene	ND (0.0010)		8260B		1	07/16/15 17:37	CYG0184	CG51636
sec-Butylbenzene	ND (0.0010)		8260B		1	07/16/15 17:37	CYG0184	CG51636
Styrene	ND (0.0010)		8260B		1	07/16/15 17:37	CYG0184	CG51636
tert-Butylbenzene	ND (0.0010)		8260B		1	07/16/15 17:37	CYG0184	CG51636
Tertiary-amyl methyl ether	ND (0.0010)		8260B		1	07/16/15 17:37	CYG0184	CG51636
Tetrachloroethene	0.0212 (0.0010)		8260B		1	07/16/15 17:37	CYG0184	CG51636



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham - Groundwater
Client Sample ID: MW-237S
Date Sampled: 07/15/15 09:45
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1507338
ESS Laboratory Sample ID: 1507338-03
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Tetrahydrofuran	ND (0.0050)		8260B		1	07/16/15 17:37	CYG0184	CG51636
Toluene	ND (0.0010)		8260B		1	07/16/15 17:37	CYG0184	CG51636
trans-1,2-Dichloroethene	0.0028 (0.0010)		8260B		1	07/16/15 17:37	CYG0184	CG51636
trans-1,3-Dichloropropene	ND (0.0004)		8260B		1	07/16/15 17:37	CYG0184	CG51636
Trichloroethene	0.118 (0.0100)		8260B		10	07/17/15 16:08	CYG0184	CG51636
Trichlorofluoromethane	ND (0.0010)		8260B		1	07/16/15 17:37	CYG0184	CG51636
Vinyl Acetate	ND (0.0050)		8260B		1	07/16/15 17:37	CYG0184	CG51636
Vinyl Chloride	ND (0.0010)		8260B		1	07/16/15 17:37	CYG0184	CG51636
Xylene O	ND (0.0010)		8260B		1	07/16/15 17:37	CYG0184	CG51636
Xylene P,M	ND (0.0020)		8260B		1	07/16/15 17:37	CYG0184	CG51636
Xylenes (Total)	ND (0.0020)		8260B		1	07/16/15 17:37		[CALC]
Trihalomethanes (Total)	ND (0.0010)		8260B			07/16/15 17:37		[CALC]

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>82 %</i>		<i>70-130</i>
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>78 %</i>		<i>70-130</i>
<i>Surrogate: Dibromofluoromethane</i>	<i>93 %</i>		<i>70-130</i>
<i>Surrogate: Toluene-d8</i>	<i>77 %</i>		<i>70-130</i>



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham - Groundwater
Client Sample ID: MW-D
Date Sampled: 07/15/15 10:05
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1507338
ESS Laboratory Sample ID: 1507338-04
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1,1,2-Tetrachloroethane	ND (0.0010)		8260B		1	07/16/15 18:02	CYG0184	CG51636
1,1,1-Trichloroethane	ND (0.0010)		8260B		1	07/16/15 18:02	CYG0184	CG51636
1,1,2,2-Tetrachloroethane	ND (0.0005)		8260B		1	07/16/15 18:02	CYG0184	CG51636
1,1,2-Trichloroethane	ND (0.0010)		8260B		1	07/16/15 18:02	CYG0184	CG51636
1,1-Dichloroethane	ND (0.0010)		8260B		1	07/16/15 18:02	CYG0184	CG51636
1,1-Dichloroethene	0.0026 (0.0010)		8260B		1	07/16/15 18:02	CYG0184	CG51636
1,1-Dichloropropene	ND (0.0020)		8260B		1	07/16/15 18:02	CYG0184	CG51636
1,2,3-Trichlorobenzene	ND (0.0010)		8260B		1	07/16/15 18:02	CYG0184	CG51636
1,2,3-Trichloropropane	ND (0.0010)		8260B		1	07/16/15 18:02	CYG0184	CG51636
1,2,4-Trichlorobenzene	ND (0.0010)		8260B		1	07/16/15 18:02	CYG0184	CG51636
1,2,4-Trimethylbenzene	ND (0.0010)		8260B		1	07/16/15 18:02	CYG0184	CG51636
1,2-Dibromo-3-Chloropropane	ND (0.0050)		8260B		1	07/16/15 18:02	CYG0184	CG51636
1,2-Dibromoethane	ND (0.0010)		8260B		1	07/16/15 18:02	CYG0184	CG51636
1,2-Dichlorobenzene	ND (0.0010)		8260B		1	07/16/15 18:02	CYG0184	CG51636
1,2-Dichloroethane	ND (0.0010)		8260B		1	07/16/15 18:02	CYG0184	CG51636
1,2-Dichloropropane	ND (0.0010)		8260B		1	07/16/15 18:02	CYG0184	CG51636
1,3,5-Trimethylbenzene	ND (0.0010)		8260B		1	07/16/15 18:02	CYG0184	CG51636
1,3-Dichlorobenzene	ND (0.0010)		8260B		1	07/16/15 18:02	CYG0184	CG51636
1,3-Dichloropropane	ND (0.0010)		8260B		1	07/16/15 18:02	CYG0184	CG51636
1,4-Dichlorobenzene	ND (0.0010)		8260B		1	07/16/15 18:02	CYG0184	CG51636
1,4-Dioxane - Screen	ND (0.500)		8260B		1	07/16/15 18:02	CYG0184	CG51636
1-Chlorohexane	ND (0.0010)		8260B		1	07/16/15 18:02	CYG0184	CG51636
2,2-Dichloropropane	ND (0.0010)		8260B		1	07/16/15 18:02	CYG0184	CG51636
2-Butanone	ND (0.0100)		8260B		1	07/16/15 18:02	CYG0184	CG51636
2-Chlorotoluene	ND (0.0010)		8260B		1	07/16/15 18:02	CYG0184	CG51636
2-Hexanone	ND (0.0100)		8260B		1	07/16/15 18:02	CYG0184	CG51636
4-Chlorotoluene	ND (0.0010)		8260B		1	07/16/15 18:02	CYG0184	CG51636
4-Isopropyltoluene	ND (0.0010)		8260B		1	07/16/15 18:02	CYG0184	CG51636
4-Methyl-2-Pentanone	ND (0.0250)		8260B		1	07/16/15 18:02	CYG0184	CG51636
Acetone	ND (0.0100)		8260B		1	07/16/15 18:02	CYG0184	CG51636
Benzene	ND (0.0010)		8260B		1	07/16/15 18:02	CYG0184	CG51636
Bromobenzene	ND (0.0020)		8260B		1	07/16/15 18:02	CYG0184	CG51636



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham - Groundwater
Client Sample ID: MW-D
Date Sampled: 07/15/15 10:05
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1507338
ESS Laboratory Sample ID: 1507338-04
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Bromochloromethane	ND (0.0010)		8260B		1	07/16/15 18:02	CYG0184	CG51636
Bromodichloromethane	ND (0.0006)		8260B		1	07/16/15 18:02	CYG0184	CG51636
Bromoform	ND (0.0010)		8260B		1	07/16/15 18:02	CYG0184	CG51636
Bromomethane	ND (0.0020)		8260B		1	07/16/15 18:02	CYG0184	CG51636
Carbon Disulfide	ND (0.0010)		8260B		1	07/16/15 18:02	CYG0184	CG51636
Carbon Tetrachloride	ND (0.0010)		8260B		1	07/16/15 18:02	CYG0184	CG51636
Chlorobenzene	ND (0.0010)		8260B		1	07/16/15 18:02	CYG0184	CG51636
Chloroethane	ND (0.0020)		8260B		1	07/16/15 18:02	CYG0184	CG51636
Chloroform	ND (0.0010)		8260B		1	07/16/15 18:02	CYG0184	CG51636
Chloromethane	ND (0.0020)		8260B		1	07/16/15 18:02	CYG0184	CG51636
cis-1,2-Dichloroethene	0.0506 (0.0010)		8260B		1	07/16/15 18:02	CYG0184	CG51636
cis-1,3-Dichloropropene	ND (0.0004)		8260B		1	07/16/15 18:02	CYG0184	CG51636
Dibromochloromethane	ND (0.0010)		8260B		1	07/16/15 18:02	CYG0184	CG51636
Dibromomethane	ND (0.0010)		8260B		1	07/16/15 18:02	CYG0184	CG51636
Dichlorodifluoromethane	ND (0.0020)		8260B		1	07/16/15 18:02	CYG0184	CG51636
Diethyl Ether	ND (0.0010)		8260B		1	07/16/15 18:02	CYG0184	CG51636
Di-isopropyl ether	ND (0.0010)		8260B		1	07/16/15 18:02	CYG0184	CG51636
Ethyl tertiary-butyl ether	ND (0.0010)		8260B		1	07/16/15 18:02	CYG0184	CG51636
Ethylbenzene	ND (0.0010)		8260B		1	07/16/15 18:02	CYG0184	CG51636
Hexachlorobutadiene	ND (0.0006)		8260B		1	07/16/15 18:02	CYG0184	CG51636
Hexachloroethane	ND (0.0010)		8260B		1	07/16/15 18:02	CYG0184	CG51636
Isopropylbenzene	ND (0.0010)		8260B		1	07/16/15 18:02	CYG0184	CG51636
Methyl tert-Butyl Ether	ND (0.0010)		8260B		1	07/16/15 18:02	CYG0184	CG51636
Methylene Chloride	ND (0.0020)		8260B		1	07/16/15 18:02	CYG0184	CG51636
Naphthalene	ND (0.0010)		8260B		1	07/16/15 18:02	CYG0184	CG51636
n-Butylbenzene	ND (0.0010)		8260B		1	07/16/15 18:02	CYG0184	CG51636
n-Propylbenzene	ND (0.0010)		8260B		1	07/16/15 18:02	CYG0184	CG51636
sec-Butylbenzene	ND (0.0010)		8260B		1	07/16/15 18:02	CYG0184	CG51636
Styrene	ND (0.0010)		8260B		1	07/16/15 18:02	CYG0184	CG51636
tert-Butylbenzene	ND (0.0010)		8260B		1	07/16/15 18:02	CYG0184	CG51636
Tertiary-amyl methyl ether	ND (0.0010)		8260B		1	07/16/15 18:02	CYG0184	CG51636
Tetrachloroethene	0.0017 (0.0010)		8260B		1	07/16/15 18:02	CYG0184	CG51636



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
 Client Project ID: Textron Gorham - Groundwater
 Client Sample ID: MW-D
 Date Sampled: 07/15/15 10:05
 Percent Solids: N/A
 Initial Volume: 5
 Final Volume: 5
 Extraction Method: 5030B

ESS Laboratory Work Order: 1507338
 ESS Laboratory Sample ID: 1507338-04
 Sample Matrix: Ground Water
 Units: mg/L
 Analyst: MD

8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Tetrahydrofuran	ND (0.0050)		8260B		1	07/16/15 18:02	CYG0184	CG51636
Toluene	ND (0.0010)		8260B		1	07/16/15 18:02	CYG0184	CG51636
trans-1,2-Dichloroethene	0.0015 (0.0010)		8260B		1	07/16/15 18:02	CYG0184	CG51636
trans-1,3-Dichloropropene	ND (0.0004)		8260B		1	07/16/15 18:02	CYG0184	CG51636
Trichloroethene	0.826 (0.0200)		8260B		20	07/17/15 17:50	CYG0184	CG51636
Trichlorofluoromethane	ND (0.0010)		8260B		1	07/16/15 18:02	CYG0184	CG51636
Vinyl Acetate	ND (0.0050)		8260B		1	07/16/15 18:02	CYG0184	CG51636
Vinyl Chloride	0.0033 (0.0010)		8260B		1	07/16/15 18:02	CYG0184	CG51636
Xylene O	ND (0.0010)		8260B		1	07/16/15 18:02	CYG0184	CG51636
Xylene P,M	ND (0.0020)		8260B		1	07/16/15 18:02	CYG0184	CG51636
Xylenes (Total)	ND (0.0020)		8260B		1	07/16/15 18:02		[CALC]
Trihalomethanes (Total)	ND (0.0010)		8260B			07/16/15 18:02		[CALC]

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>	83 %		70-130
<i>Surrogate: 4-Bromofluorobenzene</i>	79 %		70-130
<i>Surrogate: Dibromofluoromethane</i>	95 %		70-130
<i>Surrogate: Toluene-d8</i>	78 %		70-130



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham - Groundwater
Client Sample ID: MW-FS
Date Sampled: 07/15/15 12:20
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1507338
ESS Laboratory Sample ID: 1507338-05
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1,1,2-Tetrachloroethane	ND (0.0010)		8260B		1	07/16/15 18:28	CYG0184	CG51636
1,1,1-Trichloroethane	ND (0.0010)		8260B		1	07/16/15 18:28	CYG0184	CG51636
1,1,2,2-Tetrachloroethane	ND (0.0005)		8260B		1	07/16/15 18:28	CYG0184	CG51636
1,1,2-Trichloroethane	ND (0.0010)		8260B		1	07/16/15 18:28	CYG0184	CG51636
1,1-Dichloroethane	ND (0.0010)		8260B		1	07/16/15 18:28	CYG0184	CG51636
1,1-Dichloroethene	0.0012 (0.0010)		8260B		1	07/16/15 18:28	CYG0184	CG51636
1,1-Dichloropropene	ND (0.0020)		8260B		1	07/16/15 18:28	CYG0184	CG51636
1,2,3-Trichlorobenzene	ND (0.0010)		8260B		1	07/16/15 18:28	CYG0184	CG51636
1,2,3-Trichloropropane	ND (0.0010)		8260B		1	07/16/15 18:28	CYG0184	CG51636
1,2,4-Trichlorobenzene	ND (0.0010)		8260B		1	07/16/15 18:28	CYG0184	CG51636
1,2,4-Trimethylbenzene	ND (0.0010)		8260B		1	07/16/15 18:28	CYG0184	CG51636
1,2-Dibromo-3-Chloropropane	ND (0.0050)		8260B		1	07/16/15 18:28	CYG0184	CG51636
1,2-Dibromoethane	ND (0.0010)		8260B		1	07/16/15 18:28	CYG0184	CG51636
1,2-Dichlorobenzene	ND (0.0010)		8260B		1	07/16/15 18:28	CYG0184	CG51636
1,2-Dichloroethane	ND (0.0010)		8260B		1	07/16/15 18:28	CYG0184	CG51636
1,2-Dichloropropane	ND (0.0010)		8260B		1	07/16/15 18:28	CYG0184	CG51636
1,3,5-Trimethylbenzene	ND (0.0010)		8260B		1	07/16/15 18:28	CYG0184	CG51636
1,3-Dichlorobenzene	ND (0.0010)		8260B		1	07/16/15 18:28	CYG0184	CG51636
1,3-Dichloropropane	ND (0.0010)		8260B		1	07/16/15 18:28	CYG0184	CG51636
1,4-Dichlorobenzene	ND (0.0010)		8260B		1	07/16/15 18:28	CYG0184	CG51636
1,4-Dioxane - Screen	ND (0.500)		8260B		1	07/16/15 18:28	CYG0184	CG51636
1-Chlorohexane	ND (0.0010)		8260B		1	07/16/15 18:28	CYG0184	CG51636
2,2-Dichloropropane	ND (0.0010)		8260B		1	07/16/15 18:28	CYG0184	CG51636
2-Butanone	ND (0.0100)		8260B		1	07/16/15 18:28	CYG0184	CG51636
2-Chlorotoluene	ND (0.0010)		8260B		1	07/16/15 18:28	CYG0184	CG51636
2-Hexanone	ND (0.0100)		8260B		1	07/16/15 18:28	CYG0184	CG51636
4-Chlorotoluene	ND (0.0010)		8260B		1	07/16/15 18:28	CYG0184	CG51636
4-Isopropyltoluene	ND (0.0010)		8260B		1	07/16/15 18:28	CYG0184	CG51636
4-Methyl-2-Pentanone	ND (0.0250)		8260B		1	07/16/15 18:28	CYG0184	CG51636
Acetone	ND (0.0100)		8260B		1	07/16/15 18:28	CYG0184	CG51636
Benzene	ND (0.0010)		8260B		1	07/16/15 18:28	CYG0184	CG51636
Bromobenzene	ND (0.0020)		8260B		1	07/16/15 18:28	CYG0184	CG51636



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham - Groundwater
Client Sample ID: MW-FS
Date Sampled: 07/15/15 12:20
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1507338
ESS Laboratory Sample ID: 1507338-05
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Bromochloromethane	ND (0.0010)		8260B		1	07/16/15 18:28	CYG0184	CG51636
Bromodichloromethane	ND (0.0006)		8260B		1	07/16/15 18:28	CYG0184	CG51636
Bromoform	ND (0.0010)		8260B		1	07/16/15 18:28	CYG0184	CG51636
Bromomethane	ND (0.0020)		8260B		1	07/16/15 18:28	CYG0184	CG51636
Carbon Disulfide	ND (0.0010)		8260B		1	07/16/15 18:28	CYG0184	CG51636
Carbon Tetrachloride	ND (0.0010)		8260B		1	07/16/15 18:28	CYG0184	CG51636
Chlorobenzene	ND (0.0010)		8260B		1	07/16/15 18:28	CYG0184	CG51636
Chloroethane	ND (0.0020)		8260B		1	07/16/15 18:28	CYG0184	CG51636
Chloroform	ND (0.0010)		8260B		1	07/16/15 18:28	CYG0184	CG51636
Chloromethane	ND (0.0020)		8260B		1	07/16/15 18:28	CYG0184	CG51636
cis-1,2-Dichloroethene	0.0269 (0.0010)		8260B		1	07/16/15 18:28	CYG0184	CG51636
cis-1,3-Dichloropropene	ND (0.0004)		8260B		1	07/16/15 18:28	CYG0184	CG51636
Dibromochloromethane	ND (0.0010)		8260B		1	07/16/15 18:28	CYG0184	CG51636
Dibromomethane	ND (0.0010)		8260B		1	07/16/15 18:28	CYG0184	CG51636
Dichlorodifluoromethane	ND (0.0020)		8260B		1	07/16/15 18:28	CYG0184	CG51636
Diethyl Ether	ND (0.0010)		8260B		1	07/16/15 18:28	CYG0184	CG51636
Di-isopropyl ether	ND (0.0010)		8260B		1	07/16/15 18:28	CYG0184	CG51636
Ethyl tertiary-butyl ether	ND (0.0010)		8260B		1	07/16/15 18:28	CYG0184	CG51636
Ethylbenzene	ND (0.0010)		8260B		1	07/16/15 18:28	CYG0184	CG51636
Hexachlorobutadiene	ND (0.0006)		8260B		1	07/16/15 18:28	CYG0184	CG51636
Hexachloroethane	ND (0.0010)		8260B		1	07/16/15 18:28	CYG0184	CG51636
Isopropylbenzene	ND (0.0010)		8260B		1	07/16/15 18:28	CYG0184	CG51636
Methyl tert-Butyl Ether	ND (0.0010)		8260B		1	07/16/15 18:28	CYG0184	CG51636
Methylene Chloride	ND (0.0020)		8260B		1	07/16/15 18:28	CYG0184	CG51636
Naphthalene	ND (0.0010)		8260B		1	07/16/15 18:28	CYG0184	CG51636
n-Butylbenzene	ND (0.0010)		8260B		1	07/16/15 18:28	CYG0184	CG51636
n-Propylbenzene	ND (0.0010)		8260B		1	07/16/15 18:28	CYG0184	CG51636
sec-Butylbenzene	ND (0.0010)		8260B		1	07/16/15 18:28	CYG0184	CG51636
Styrene	ND (0.0010)		8260B		1	07/16/15 18:28	CYG0184	CG51636
tert-Butylbenzene	ND (0.0010)		8260B		1	07/16/15 18:28	CYG0184	CG51636
Tertiary-amyl methyl ether	ND (0.0010)		8260B		1	07/16/15 18:28	CYG0184	CG51636
Tetrachloroethene	0.0148 (0.0010)		8260B		1	07/16/15 18:28	CYG0184	CG51636



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham - Groundwater
Client Sample ID: MW-FS
Date Sampled: 07/15/15 12:20
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1507338
ESS Laboratory Sample ID: 1507338-05
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Tetrahydrofuran	ND (0.0050)		8260B		1	07/16/15 18:28	CYG0184	CG51636
Toluene	ND (0.0010)		8260B		1	07/16/15 18:28	CYG0184	CG51636
trans-1,2-Dichloroethene	ND (0.0010)		8260B		1	07/16/15 18:28	CYG0184	CG51636
trans-1,3-Dichloropropene	ND (0.0004)		8260B		1	07/16/15 18:28	CYG0184	CG51636
Trichloroethene	0.129 (0.0100)		8260B		10	07/17/15 16:33	CYG0184	CG51636
Trichlorofluoromethane	ND (0.0010)		8260B		1	07/16/15 18:28	CYG0184	CG51636
Vinyl Acetate	ND (0.0050)		8260B		1	07/16/15 18:28	CYG0184	CG51636
Vinyl Chloride	ND (0.0010)		8260B		1	07/16/15 18:28	CYG0184	CG51636
Xylene O	ND (0.0010)		8260B		1	07/16/15 18:28	CYG0184	CG51636
Xylene P,M	ND (0.0020)		8260B		1	07/16/15 18:28	CYG0184	CG51636
Xylenes (Total)	ND (0.0020)		8260B		1	07/16/15 18:28		[CALC]
Trihalomethanes (Total)	ND (0.0010)		8260B			07/16/15 18:28		[CALC]

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>85 %</i>		<i>70-130</i>
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>77 %</i>		<i>70-130</i>
<i>Surrogate: Dibromofluoromethane</i>	<i>93 %</i>		<i>70-130</i>
<i>Surrogate: Toluene-d8</i>	<i>78 %</i>		<i>70-130</i>



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham - Groundwater
Client Sample ID: DUP-01
Date Sampled: 07/15/15 10:10
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1507338
ESS Laboratory Sample ID: 1507338-06
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1,1,2-Tetrachloroethane	ND (0.0010)		8260B		1	07/16/15 18:53	CYG0184	CG51636
1,1,1-Trichloroethane	ND (0.0010)		8260B		1	07/16/15 18:53	CYG0184	CG51636
1,1,2,2-Tetrachloroethane	ND (0.0005)		8260B		1	07/16/15 18:53	CYG0184	CG51636
1,1,2-Trichloroethane	ND (0.0010)		8260B		1	07/16/15 18:53	CYG0184	CG51636
1,1-Dichloroethane	ND (0.0010)		8260B		1	07/16/15 18:53	CYG0184	CG51636
1,1-Dichloroethene	0.0025 (0.0010)		8260B		1	07/16/15 18:53	CYG0184	CG51636
1,1-Dichloropropene	ND (0.0020)		8260B		1	07/16/15 18:53	CYG0184	CG51636
1,2,3-Trichlorobenzene	ND (0.0010)		8260B		1	07/16/15 18:53	CYG0184	CG51636
1,2,3-Trichloropropane	ND (0.0010)		8260B		1	07/16/15 18:53	CYG0184	CG51636
1,2,4-Trichlorobenzene	ND (0.0010)		8260B		1	07/16/15 18:53	CYG0184	CG51636
1,2,4-Trimethylbenzene	ND (0.0010)		8260B		1	07/16/15 18:53	CYG0184	CG51636
1,2-Dibromo-3-Chloropropane	ND (0.0050)		8260B		1	07/16/15 18:53	CYG0184	CG51636
1,2-Dibromoethane	ND (0.0010)		8260B		1	07/16/15 18:53	CYG0184	CG51636
1,2-Dichlorobenzene	ND (0.0010)		8260B		1	07/16/15 18:53	CYG0184	CG51636
1,2-Dichloroethane	ND (0.0010)		8260B		1	07/16/15 18:53	CYG0184	CG51636
1,2-Dichloropropane	ND (0.0010)		8260B		1	07/16/15 18:53	CYG0184	CG51636
1,3,5-Trimethylbenzene	ND (0.0010)		8260B		1	07/16/15 18:53	CYG0184	CG51636
1,3-Dichlorobenzene	ND (0.0010)		8260B		1	07/16/15 18:53	CYG0184	CG51636
1,3-Dichloropropane	ND (0.0010)		8260B		1	07/16/15 18:53	CYG0184	CG51636
1,4-Dichlorobenzene	ND (0.0010)		8260B		1	07/16/15 18:53	CYG0184	CG51636
1,4-Dioxane - Screen	ND (0.500)		8260B		1	07/16/15 18:53	CYG0184	CG51636
1-Chlorohexane	ND (0.0010)		8260B		1	07/16/15 18:53	CYG0184	CG51636
2,2-Dichloropropane	ND (0.0010)		8260B		1	07/16/15 18:53	CYG0184	CG51636
2-Butanone	ND (0.0100)		8260B		1	07/16/15 18:53	CYG0184	CG51636
2-Chlorotoluene	ND (0.0010)		8260B		1	07/16/15 18:53	CYG0184	CG51636
2-Hexanone	ND (0.0100)		8260B		1	07/16/15 18:53	CYG0184	CG51636
4-Chlorotoluene	ND (0.0010)		8260B		1	07/16/15 18:53	CYG0184	CG51636
4-Isopropyltoluene	ND (0.0010)		8260B		1	07/16/15 18:53	CYG0184	CG51636
4-Methyl-2-Pentanone	ND (0.0250)		8260B		1	07/16/15 18:53	CYG0184	CG51636
Acetone	ND (0.0100)		8260B		1	07/16/15 18:53	CYG0184	CG51636
Benzene	ND (0.0010)		8260B		1	07/16/15 18:53	CYG0184	CG51636
Bromobenzene	ND (0.0020)		8260B		1	07/16/15 18:53	CYG0184	CG51636



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham - Groundwater
Client Sample ID: DUP-01
Date Sampled: 07/15/15 10:10
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1507338
ESS Laboratory Sample ID: 1507338-06
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Bromochloromethane	ND (0.0010)		8260B		1	07/16/15 18:53	CYG0184	CG51636
Bromodichloromethane	ND (0.0006)		8260B		1	07/16/15 18:53	CYG0184	CG51636
Bromoform	ND (0.0010)		8260B		1	07/16/15 18:53	CYG0184	CG51636
Bromomethane	ND (0.0020)		8260B		1	07/16/15 18:53	CYG0184	CG51636
Carbon Disulfide	ND (0.0010)		8260B		1	07/16/15 18:53	CYG0184	CG51636
Carbon Tetrachloride	ND (0.0010)		8260B		1	07/16/15 18:53	CYG0184	CG51636
Chlorobenzene	ND (0.0010)		8260B		1	07/16/15 18:53	CYG0184	CG51636
Chloroethane	ND (0.0020)		8260B		1	07/16/15 18:53	CYG0184	CG51636
Chloroform	ND (0.0010)		8260B		1	07/16/15 18:53	CYG0184	CG51636
Chloromethane	ND (0.0020)		8260B		1	07/16/15 18:53	CYG0184	CG51636
cis-1,2-Dichloroethene	0.0466 (0.0010)		8260B		1	07/16/15 18:53	CYG0184	CG51636
cis-1,3-Dichloropropene	ND (0.0004)		8260B		1	07/16/15 18:53	CYG0184	CG51636
Dibromochloromethane	ND (0.0010)		8260B		1	07/16/15 18:53	CYG0184	CG51636
Dibromomethane	ND (0.0010)		8260B		1	07/16/15 18:53	CYG0184	CG51636
Dichlorodifluoromethane	ND (0.0020)		8260B		1	07/16/15 18:53	CYG0184	CG51636
Diethyl Ether	ND (0.0010)		8260B		1	07/16/15 18:53	CYG0184	CG51636
Di-isopropyl ether	ND (0.0010)		8260B		1	07/16/15 18:53	CYG0184	CG51636
Ethyl tertiary-butyl ether	ND (0.0010)		8260B		1	07/16/15 18:53	CYG0184	CG51636
Ethylbenzene	ND (0.0010)		8260B		1	07/16/15 18:53	CYG0184	CG51636
Hexachlorobutadiene	ND (0.0006)		8260B		1	07/16/15 18:53	CYG0184	CG51636
Hexachloroethane	ND (0.0010)		8260B		1	07/16/15 18:53	CYG0184	CG51636
Isopropylbenzene	ND (0.0010)		8260B		1	07/16/15 18:53	CYG0184	CG51636
Methyl tert-Butyl Ether	ND (0.0010)		8260B		1	07/16/15 18:53	CYG0184	CG51636
Methylene Chloride	ND (0.0020)		8260B		1	07/16/15 18:53	CYG0184	CG51636
Naphthalene	ND (0.0010)		8260B		1	07/16/15 18:53	CYG0184	CG51636
n-Butylbenzene	ND (0.0010)		8260B		1	07/16/15 18:53	CYG0184	CG51636
n-Propylbenzene	ND (0.0010)		8260B		1	07/16/15 18:53	CYG0184	CG51636
sec-Butylbenzene	ND (0.0010)		8260B		1	07/16/15 18:53	CYG0184	CG51636
Styrene	ND (0.0010)		8260B		1	07/16/15 18:53	CYG0184	CG51636
tert-Butylbenzene	ND (0.0010)		8260B		1	07/16/15 18:53	CYG0184	CG51636
Tertiary-amyl methyl ether	ND (0.0010)		8260B		1	07/16/15 18:53	CYG0184	CG51636
Tetrachloroethene	0.0016 (0.0010)		8260B		1	07/16/15 18:53	CYG0184	CG51636



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham - Groundwater
Client Sample ID: DUP-01
Date Sampled: 07/15/15 10:10
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1507338
ESS Laboratory Sample ID: 1507338-06
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Tetrahydrofuran	ND (0.0050)		8260B		1	07/16/15 18:53	CYG0184	CG51636
Toluene	ND (0.0010)		8260B		1	07/16/15 18:53	CYG0184	CG51636
trans-1,2-Dichloroethene	0.0013 (0.0010)		8260B		1	07/16/15 18:53	CYG0184	CG51636
trans-1,3-Dichloropropene	ND (0.0004)		8260B		1	07/16/15 18:53	CYG0184	CG51636
Trichloroethene	0.851 (0.0200)		8260B		20	07/17/15 18:15	CYG0184	CG51636
Trichlorofluoromethane	ND (0.0010)		8260B		1	07/16/15 18:53	CYG0184	CG51636
Vinyl Acetate	ND (0.0050)		8260B		1	07/16/15 18:53	CYG0184	CG51636
Vinyl Chloride	0.0030 (0.0010)		8260B		1	07/16/15 18:53	CYG0184	CG51636
Xylene O	ND (0.0010)		8260B		1	07/16/15 18:53	CYG0184	CG51636
Xylene P,M	ND (0.0020)		8260B		1	07/16/15 18:53	CYG0184	CG51636
Xylenes (Total)	ND (0.0020)		8260B		1	07/16/15 18:53		[CALC]
Trihalomethanes (Total)	ND (0.0010)		8260B			07/16/15 18:53		[CALC]

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>85 %</i>		<i>70-130</i>
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>78 %</i>		<i>70-130</i>
<i>Surrogate: Dibromofluoromethane</i>	<i>96 %</i>		<i>70-130</i>
<i>Surrogate: Toluene-d8</i>	<i>78 %</i>		<i>70-130</i>



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham - Groundwater
Client Sample ID: Trip Blank-01
Date Sampled: 07/15/15 00:00
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1507338
ESS Laboratory Sample ID: 1507338-07
Sample Matrix: Aqueous
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1,1,2-Tetrachloroethane	ND (0.0010)		8260B		1	07/17/15 15:17	CYG0196	CG51742
1,1,1-Trichloroethane	ND (0.0010)		8260B		1	07/17/15 15:17	CYG0196	CG51742
1,1,2,2-Tetrachloroethane	ND (0.0005)		8260B		1	07/17/15 15:17	CYG0196	CG51742
1,1,2-Trichloroethane	ND (0.0010)		8260B		1	07/17/15 15:17	CYG0196	CG51742
1,1-Dichloroethane	ND (0.0010)		8260B		1	07/17/15 15:17	CYG0196	CG51742
1,1-Dichloroethene	ND (0.0010)		8260B		1	07/17/15 15:17	CYG0196	CG51742
1,1-Dichloropropene	ND (0.0020)		8260B		1	07/17/15 15:17	CYG0196	CG51742
1,2,3-Trichlorobenzene	ND (0.0010)		8260B		1	07/17/15 15:17	CYG0196	CG51742
1,2,3-Trichloropropane	ND (0.0010)		8260B		1	07/17/15 15:17	CYG0196	CG51742
1,2,4-Trichlorobenzene	ND (0.0010)		8260B		1	07/17/15 15:17	CYG0196	CG51742
1,2,4-Trimethylbenzene	ND (0.0010)		8260B		1	07/17/15 15:17	CYG0196	CG51742
1,2-Dibromo-3-Chloropropane	ND (0.0050)		8260B		1	07/17/15 15:17	CYG0196	CG51742
1,2-Dibromoethane	ND (0.0010)		8260B		1	07/17/15 15:17	CYG0196	CG51742
1,2-Dichlorobenzene	ND (0.0010)		8260B		1	07/17/15 15:17	CYG0196	CG51742
1,2-Dichloroethane	ND (0.0010)		8260B		1	07/17/15 15:17	CYG0196	CG51742
1,2-Dichloropropane	ND (0.0010)		8260B		1	07/17/15 15:17	CYG0196	CG51742
1,3,5-Trimethylbenzene	ND (0.0010)		8260B		1	07/17/15 15:17	CYG0196	CG51742
1,3-Dichlorobenzene	ND (0.0010)		8260B		1	07/17/15 15:17	CYG0196	CG51742
1,3-Dichloropropane	ND (0.0010)		8260B		1	07/17/15 15:17	CYG0196	CG51742
1,4-Dichlorobenzene	ND (0.0010)		8260B		1	07/17/15 15:17	CYG0196	CG51742
1,4-Dioxane - Screen	ND (0.500)		8260B		1	07/17/15 15:17	CYG0196	CG51742
1-Chlorohexane	ND (0.0010)		8260B		1	07/17/15 15:17	CYG0196	CG51742
2,2-Dichloropropane	ND (0.0010)		8260B		1	07/17/15 15:17	CYG0196	CG51742
2-Butanone	ND (0.0100)		8260B		1	07/17/15 15:17	CYG0196	CG51742
2-Chlorotoluene	ND (0.0010)		8260B		1	07/17/15 15:17	CYG0196	CG51742
2-Hexanone	ND (0.0100)		8260B		1	07/17/15 15:17	CYG0196	CG51742
4-Chlorotoluene	ND (0.0010)		8260B		1	07/17/15 15:17	CYG0196	CG51742
4-Isopropyltoluene	ND (0.0010)		8260B		1	07/17/15 15:17	CYG0196	CG51742
4-Methyl-2-Pentanone	ND (0.0250)		8260B		1	07/17/15 15:17	CYG0196	CG51742
Acetone	ND (0.0100)		8260B		1	07/17/15 15:17	CYG0196	CG51742
Benzene	ND (0.0010)		8260B		1	07/17/15 15:17	CYG0196	CG51742
Bromobenzene	ND (0.0020)		8260B		1	07/17/15 15:17	CYG0196	CG51742



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham - Groundwater
Client Sample ID: Trip Blank-01
Date Sampled: 07/15/15 00:00
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1507338
ESS Laboratory Sample ID: 1507338-07
Sample Matrix: Aqueous
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Bromochloromethane	ND (0.0010)		8260B		1	07/17/15 15:17	CYG0196	CG51742
Bromodichloromethane	ND (0.0006)		8260B		1	07/17/15 15:17	CYG0196	CG51742
Bromoform	ND (0.0010)		8260B		1	07/17/15 15:17	CYG0196	CG51742
Bromomethane	ND (0.0020)		8260B		1	07/17/15 15:17	CYG0196	CG51742
Carbon Disulfide	ND (0.0010)		8260B		1	07/17/15 15:17	CYG0196	CG51742
Carbon Tetrachloride	ND (0.0010)		8260B		1	07/17/15 15:17	CYG0196	CG51742
Chlorobenzene	ND (0.0010)		8260B		1	07/17/15 15:17	CYG0196	CG51742
Chloroethane	ND (0.0020)		8260B		1	07/17/15 15:17	CYG0196	CG51742
Chloroform	ND (0.0010)		8260B		1	07/17/15 15:17	CYG0196	CG51742
Chloromethane	ND (0.0020)		8260B		1	07/17/15 15:17	CYG0196	CG51742
cis-1,2-Dichloroethene	ND (0.0010)		8260B		1	07/17/15 15:17	CYG0196	CG51742
cis-1,3-Dichloropropene	ND (0.0004)		8260B		1	07/17/15 15:17	CYG0196	CG51742
Dibromochloromethane	ND (0.0010)		8260B		1	07/17/15 15:17	CYG0196	CG51742
Dibromomethane	ND (0.0010)		8260B		1	07/17/15 15:17	CYG0196	CG51742
Dichlorodifluoromethane	ND (0.0020)		8260B		1	07/17/15 15:17	CYG0196	CG51742
Diethyl Ether	ND (0.0010)		8260B		1	07/17/15 15:17	CYG0196	CG51742
Di-isopropyl ether	ND (0.0010)		8260B		1	07/17/15 15:17	CYG0196	CG51742
Ethyl tertiary-butyl ether	ND (0.0010)		8260B		1	07/17/15 15:17	CYG0196	CG51742
Ethylbenzene	ND (0.0010)		8260B		1	07/17/15 15:17	CYG0196	CG51742
Hexachlorobutadiene	ND (0.0006)		8260B		1	07/17/15 15:17	CYG0196	CG51742
Hexachloroethane	ND (0.0010)		8260B		1	07/17/15 15:17	CYG0196	CG51742
Isopropylbenzene	ND (0.0010)		8260B		1	07/17/15 15:17	CYG0196	CG51742
Methyl tert-Butyl Ether	ND (0.0010)		8260B		1	07/17/15 15:17	CYG0196	CG51742
Methylene Chloride	ND (0.0020)		8260B		1	07/17/15 15:17	CYG0196	CG51742
Naphthalene	ND (0.0010)		8260B		1	07/17/15 15:17	CYG0196	CG51742
n-Butylbenzene	ND (0.0010)		8260B		1	07/17/15 15:17	CYG0196	CG51742
n-Propylbenzene	ND (0.0010)		8260B		1	07/17/15 15:17	CYG0196	CG51742
sec-Butylbenzene	ND (0.0010)		8260B		1	07/17/15 15:17	CYG0196	CG51742
Styrene	ND (0.0010)		8260B		1	07/17/15 15:17	CYG0196	CG51742
tert-Butylbenzene	ND (0.0010)		8260B		1	07/17/15 15:17	CYG0196	CG51742
Tertiary-amyl methyl ether	ND (0.0010)		8260B		1	07/17/15 15:17	CYG0196	CG51742
Tetrachloroethene	ND (0.0010)		8260B		1	07/17/15 15:17	CYG0196	CG51742



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham - Groundwater
Client Sample ID: Trip Blank-01
Date Sampled: 07/15/15 00:00
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1507338
ESS Laboratory Sample ID: 1507338-07
Sample Matrix: Aqueous
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Tetrahydrofuran	ND (0.0050)		8260B		1	07/17/15 15:17	CYG0196	CG51742
Toluene	ND (0.0010)		8260B		1	07/17/15 15:17	CYG0196	CG51742
trans-1,2-Dichloroethene	ND (0.0010)		8260B		1	07/17/15 15:17	CYG0196	CG51742
trans-1,3-Dichloropropene	ND (0.0004)		8260B		1	07/17/15 15:17	CYG0196	CG51742
Trichloroethene	ND (0.0010)		8260B		1	07/17/15 15:17	CYG0196	CG51742
Trichlorofluoromethane	ND (0.0010)		8260B		1	07/17/15 15:17	CYG0196	CG51742
Vinyl Acetate	ND (0.0050)		8260B		1	07/17/15 15:17	CYG0196	CG51742
Vinyl Chloride	ND (0.0010)		8260B		1	07/17/15 15:17	CYG0196	CG51742
Xylene O	ND (0.0010)		8260B		1	07/17/15 15:17	CYG0196	CG51742
Xylene P,M	ND (0.0020)		8260B		1	07/17/15 15:17	CYG0196	CG51742
Xylenes (Total)	ND (0.0020)		8260B		1	07/17/15 15:17		[CALC]
Trihalomethanes (Total)	ND (0.0010)		8260B			07/17/15 15:17		[CALC]

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>89 %</i>		<i>70-130</i>
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>77 %</i>		<i>70-130</i>
<i>Surrogate: Dibromofluoromethane</i>	<i>97 %</i>		<i>70-130</i>
<i>Surrogate: Toluene-d8</i>	<i>75 %</i>		<i>70-130</i>



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham - Groundwater
Client Sample ID: MW-241
Date Sampled: 07/15/15 12:05
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1507338
ESS Laboratory Sample ID: 1507338-08
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1,1,2-Tetrachloroethane	ND (0.0010)		8260B		1	07/16/15 19:44	CYG0184	CG51636
1,1,1-Trichloroethane	ND (0.0010)		8260B		1	07/16/15 19:44	CYG0184	CG51636
1,1,2,2-Tetrachloroethane	ND (0.0005)		8260B		1	07/16/15 19:44	CYG0184	CG51636
1,1,2-Trichloroethane	ND (0.0010)		8260B		1	07/16/15 19:44	CYG0184	CG51636
1,1-Dichloroethane	ND (0.0010)		8260B		1	07/16/15 19:44	CYG0184	CG51636
1,1-Dichloroethene	0.0026 (0.0010)		8260B		1	07/16/15 19:44	CYG0184	CG51636
1,1-Dichloropropene	ND (0.0020)		8260B		1	07/16/15 19:44	CYG0184	CG51636
1,2,3-Trichlorobenzene	ND (0.0010)		8260B		1	07/16/15 19:44	CYG0184	CG51636
1,2,3-Trichloropropane	ND (0.0010)		8260B		1	07/16/15 19:44	CYG0184	CG51636
1,2,4-Trichlorobenzene	ND (0.0010)		8260B		1	07/16/15 19:44	CYG0184	CG51636
1,2,4-Trimethylbenzene	ND (0.0010)		8260B		1	07/16/15 19:44	CYG0184	CG51636
1,2-Dibromo-3-Chloropropane	ND (0.0050)		8260B		1	07/16/15 19:44	CYG0184	CG51636
1,2-Dibromoethane	ND (0.0010)		8260B		1	07/16/15 19:44	CYG0184	CG51636
1,2-Dichlorobenzene	ND (0.0010)		8260B		1	07/16/15 19:44	CYG0184	CG51636
1,2-Dichloroethane	ND (0.0010)		8260B		1	07/16/15 19:44	CYG0184	CG51636
1,2-Dichloropropane	ND (0.0010)		8260B		1	07/16/15 19:44	CYG0184	CG51636
1,3,5-Trimethylbenzene	ND (0.0010)		8260B		1	07/16/15 19:44	CYG0184	CG51636
1,3-Dichlorobenzene	ND (0.0010)		8260B		1	07/16/15 19:44	CYG0184	CG51636
1,3-Dichloropropane	ND (0.0010)		8260B		1	07/16/15 19:44	CYG0184	CG51636
1,4-Dichlorobenzene	ND (0.0010)		8260B		1	07/16/15 19:44	CYG0184	CG51636
1,4-Dioxane - Screen	ND (0.500)		8260B		1	07/16/15 19:44	CYG0184	CG51636
1-Chlorohexane	ND (0.0010)		8260B		1	07/16/15 19:44	CYG0184	CG51636
2,2-Dichloropropane	ND (0.0010)		8260B		1	07/16/15 19:44	CYG0184	CG51636
2-Butanone	ND (0.0100)		8260B		1	07/16/15 19:44	CYG0184	CG51636
2-Chlorotoluene	ND (0.0010)		8260B		1	07/16/15 19:44	CYG0184	CG51636
2-Hexanone	ND (0.0100)		8260B		1	07/16/15 19:44	CYG0184	CG51636
4-Chlorotoluene	ND (0.0010)		8260B		1	07/16/15 19:44	CYG0184	CG51636
4-Isopropyltoluene	ND (0.0010)		8260B		1	07/16/15 19:44	CYG0184	CG51636
4-Methyl-2-Pentanone	ND (0.0250)		8260B		1	07/16/15 19:44	CYG0184	CG51636
Acetone	ND (0.0100)		8260B		1	07/16/15 19:44	CYG0184	CG51636
Benzene	ND (0.0010)		8260B		1	07/16/15 19:44	CYG0184	CG51636
Bromobenzene	ND (0.0020)		8260B		1	07/16/15 19:44	CYG0184	CG51636



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham - Groundwater
Client Sample ID: MW-241
Date Sampled: 07/15/15 12:05
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1507338
ESS Laboratory Sample ID: 1507338-08
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Bromochloromethane	ND (0.0010)		8260B		1	07/16/15 19:44	CYG0184	CG51636
Bromodichloromethane	ND (0.0006)		8260B		1	07/16/15 19:44	CYG0184	CG51636
Bromoform	ND (0.0010)		8260B		1	07/16/15 19:44	CYG0184	CG51636
Bromomethane	ND (0.0020)		8260B		1	07/16/15 19:44	CYG0184	CG51636
Carbon Disulfide	ND (0.0010)		8260B		1	07/16/15 19:44	CYG0184	CG51636
Carbon Tetrachloride	ND (0.0010)		8260B		1	07/16/15 19:44	CYG0184	CG51636
Chlorobenzene	ND (0.0010)		8260B		1	07/16/15 19:44	CYG0184	CG51636
Chloroethane	ND (0.0020)		8260B		1	07/16/15 19:44	CYG0184	CG51636
Chloroform	ND (0.0010)		8260B		1	07/16/15 19:44	CYG0184	CG51636
Chloromethane	ND (0.0020)		8260B		1	07/16/15 19:44	CYG0184	CG51636
cis-1,2-Dichloroethene	0.0301 (0.0010)		8260B		1	07/16/15 19:44	CYG0184	CG51636
cis-1,3-Dichloropropene	ND (0.0004)		8260B		1	07/16/15 19:44	CYG0184	CG51636
Dibromochloromethane	ND (0.0010)		8260B		1	07/16/15 19:44	CYG0184	CG51636
Dibromomethane	ND (0.0010)		8260B		1	07/16/15 19:44	CYG0184	CG51636
Dichlorodifluoromethane	ND (0.0020)		8260B		1	07/16/15 19:44	CYG0184	CG51636
Diethyl Ether	ND (0.0010)		8260B		1	07/16/15 19:44	CYG0184	CG51636
Di-isopropyl ether	ND (0.0010)		8260B		1	07/16/15 19:44	CYG0184	CG51636
Ethyl tertiary-butyl ether	ND (0.0010)		8260B		1	07/16/15 19:44	CYG0184	CG51636
Ethylbenzene	ND (0.0010)		8260B		1	07/16/15 19:44	CYG0184	CG51636
Hexachlorobutadiene	ND (0.0006)		8260B		1	07/16/15 19:44	CYG0184	CG51636
Hexachloroethane	ND (0.0010)		8260B		1	07/16/15 19:44	CYG0184	CG51636
Isopropylbenzene	ND (0.0010)		8260B		1	07/16/15 19:44	CYG0184	CG51636
Methyl tert-Butyl Ether	ND (0.0010)		8260B		1	07/16/15 19:44	CYG0184	CG51636
Methylene Chloride	ND (0.0020)		8260B		1	07/16/15 19:44	CYG0184	CG51636
Naphthalene	ND (0.0010)		8260B		1	07/16/15 19:44	CYG0184	CG51636
n-Butylbenzene	ND (0.0010)		8260B		1	07/16/15 19:44	CYG0184	CG51636
n-Propylbenzene	ND (0.0010)		8260B		1	07/16/15 19:44	CYG0184	CG51636
sec-Butylbenzene	ND (0.0010)		8260B		1	07/16/15 19:44	CYG0184	CG51636
Styrene	ND (0.0010)		8260B		1	07/16/15 19:44	CYG0184	CG51636
tert-Butylbenzene	ND (0.0010)		8260B		1	07/16/15 19:44	CYG0184	CG51636
Tertiary-amyl methyl ether	ND (0.0010)		8260B		1	07/16/15 19:44	CYG0184	CG51636
Tetrachloroethene	ND (0.0010)		8260B		1	07/16/15 19:44	CYG0184	CG51636



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham - Groundwater
Client Sample ID: MW-241
Date Sampled: 07/15/15 12:05
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1507338
ESS Laboratory Sample ID: 1507338-08
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Tetrahydrofuran	ND (0.0050)		8260B		1	07/16/15 19:44	CYG0184	CG51636
Toluene	ND (0.0010)		8260B		1	07/16/15 19:44	CYG0184	CG51636
trans-1,2-Dichloroethene	ND (0.0010)		8260B		1	07/16/15 19:44	CYG0184	CG51636
trans-1,3-Dichloropropene	ND (0.0004)		8260B		1	07/16/15 19:44	CYG0184	CG51636
Trichloroethene	0.390 (0.0100)		8260B		10	07/17/15 16:59	CYG0184	CG51636
Trichlorofluoromethane	ND (0.0010)		8260B		1	07/16/15 19:44	CYG0184	CG51636
Vinyl Acetate	ND (0.0050)		8260B		1	07/16/15 19:44	CYG0184	CG51636
Vinyl Chloride	ND (0.0010)		8260B		1	07/16/15 19:44	CYG0184	CG51636
Xylene O	ND (0.0010)		8260B		1	07/16/15 19:44	CYG0184	CG51636
Xylene P,M	ND (0.0020)		8260B		1	07/16/15 19:44	CYG0184	CG51636
Xylenes (Total)	ND (0.0020)		8260B		1	07/16/15 19:44		[CALC]
Trihalomethanes (Total)	ND (0.0010)		8260B			07/16/15 19:44		[CALC]

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>85 %</i>		<i>70-130</i>
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>76 %</i>		<i>70-130</i>
<i>Surrogate: Dibromofluoromethane</i>	<i>94 %</i>		<i>70-130</i>
<i>Surrogate: Toluene-d8</i>	<i>77 %</i>		<i>70-130</i>



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham - Groundwater

ESS Laboratory Work Order: 1507338

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8260B Volatile Organic Compounds

Batch CG51636 - 5030B

Blank

1,1,1,2-Tetrachloroethane	ND	0.0010	mg/L							
1,1,1-Trichloroethane	ND	0.0010	mg/L							
1,1,2,2-Tetrachloroethane	ND	0.0005	mg/L							
1,1,2-Trichloroethane	ND	0.0010	mg/L							
1,1-Dichloroethane	ND	0.0010	mg/L							
1,1-Dichloroethene	ND	0.0010	mg/L							
1,1-Dichloropropene	ND	0.0020	mg/L							
1,2,3-Trichlorobenzene	ND	0.0010	mg/L							
1,2,3-Trichloropropane	ND	0.0010	mg/L							
1,2,4-Trichlorobenzene	ND	0.0010	mg/L							
1,2,4-Trimethylbenzene	ND	0.0010	mg/L							
1,2-Dibromo-3-Chloropropane	ND	0.0050	mg/L							
1,2-Dibromoethane	ND	0.0010	mg/L							
1,2-Dichlorobenzene	ND	0.0010	mg/L							
1,2-Dichloroethane	ND	0.0010	mg/L							
1,2-Dichloropropane	ND	0.0010	mg/L							
1,3,5-Trimethylbenzene	ND	0.0010	mg/L							
1,3-Dichlorobenzene	ND	0.0010	mg/L							
1,3-Dichloropropane	ND	0.0010	mg/L							
1,4-Dichlorobenzene	ND	0.0010	mg/L							
1,4-Dioxane - Screen	ND	0.500	mg/L							
1-Chlorohexane	ND	0.0010	mg/L							
2,2-Dichloropropane	ND	0.0010	mg/L							
2-Butanone	ND	0.0100	mg/L							
2-Chlorotoluene	ND	0.0010	mg/L							
2-Hexanone	ND	0.0100	mg/L							
4-Chlorotoluene	ND	0.0010	mg/L							
4-Isopropyltoluene	ND	0.0010	mg/L							
4-Methyl-2-Pentanone	ND	0.0250	mg/L							
Acetone	ND	0.0100	mg/L							
Benzene	ND	0.0010	mg/L							
Bromobenzene	ND	0.0020	mg/L							
Bromochloromethane	ND	0.0010	mg/L							
Bromodichloromethane	ND	0.0006	mg/L							
Bromoform	ND	0.0010	mg/L							
Bromomethane	ND	0.0020	mg/L							
Carbon Disulfide	ND	0.0010	mg/L							
Carbon Tetrachloride	ND	0.0010	mg/L							
Chlorobenzene	ND	0.0010	mg/L							
Chloroethane	ND	0.0020	mg/L							
Chloroform	ND	0.0010	mg/L							
Chloromethane	ND	0.0020	mg/L							
cis-1,2-Dichloroethene	ND	0.0010	mg/L							
cis-1,3-Dichloropropene	ND	0.0004	mg/L							



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham - Groundwater

ESS Laboratory Work Order: 1507338

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8260B Volatile Organic Compounds

Batch CG51636 - 5030B

Dibromochloromethane	ND	0.0010	mg/L							
Dibromomethane	ND	0.0010	mg/L							
Dichlorodifluoromethane	ND	0.0020	mg/L							
Diethyl Ether	ND	0.0010	mg/L							
Di-isopropyl ether	ND	0.0010	mg/L							
Ethyl tertiary-butyl ether	ND	0.0010	mg/L							
Ethylbenzene	ND	0.0010	mg/L							
Hexachlorobutadiene	ND	0.0006	mg/L							
Hexachloroethane	ND	0.0010	mg/L							
Isopropylbenzene	ND	0.0010	mg/L							
Methyl tert-Butyl Ether	ND	0.0010	mg/L							
Methylene Chloride	ND	0.0020	mg/L							
Naphthalene	ND	0.0010	mg/L							
n-Butylbenzene	ND	0.0010	mg/L							
n-Propylbenzene	ND	0.0010	mg/L							
sec-Butylbenzene	ND	0.0010	mg/L							
Styrene	ND	0.0010	mg/L							
tert-Butylbenzene	ND	0.0010	mg/L							
Tertiary-amyl methyl ether	ND	0.0010	mg/L							
Tetrachloroethene	ND	0.0010	mg/L							
Tetrahydrofuran	ND	0.0050	mg/L							
Toluene	ND	0.0010	mg/L							
trans-1,2-Dichloroethene	ND	0.0010	mg/L							
trans-1,3-Dichloropropene	ND	0.0004	mg/L							
Trichloroethene	ND	0.0010	mg/L							
Trichlorofluoromethane	ND	0.0010	mg/L							
Trihalomethanes (Total)	ND	0.0010	mg/L							
Vinyl Acetate	ND	0.0050	mg/L							
Vinyl Chloride	ND	0.0010	mg/L							
Xylene O	ND	0.0010	mg/L							
Xylene P,M	ND	0.0020	mg/L							
Xylenes (Total)	ND	0.0020	mg/L							
Surrogate: 1,2-Dichloroethane-d4	0.0212		mg/L	0.02500		85	70-130			
Surrogate: 4-Bromofluorobenzene	0.0195		mg/L	0.02500		78	70-130			
Surrogate: Dibromofluoromethane	0.0230		mg/L	0.02500		92	70-130			
Surrogate: Toluene-d8	0.0190		mg/L	0.02500		76	70-130			

LCS

1,1,1,2-Tetrachloroethane	10.7		ug/L	10.00		107	70-130			
1,1,1-Trichloroethane	10.2		ug/L	10.00		102	70-130			
1,1,2,2-Tetrachloroethane	10.0		ug/L	10.00		100	70-130			
1,1,2-Trichloroethane	9.09		ug/L	10.00		91	70-130			
1,1-Dichloroethane	9.03		ug/L	10.00		90	70-130			
1,1-Dichloroethene	8.74		ug/L	10.00		87	70-130			
1,1-Dichloropropene	8.88		ug/L	10.00		89	70-130			
1,2,3-Trichlorobenzene	9.28		ug/L	10.00		93	70-130			



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham - Groundwater

ESS Laboratory Work Order: 1507338

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8260B Volatile Organic Compounds

Batch CG51636 - 5030B

1,2,3-Trichloropropane	8.95		ug/L	10.00		90	70-130			
1,2,4-Trichlorobenzene	9.05		ug/L	10.00		90	70-130			
1,2,4-Trimethylbenzene	9.51		ug/L	10.00		95	70-130			
1,2-Dibromo-3-Chloropropane	12.1		ug/L	10.00		121	70-130			
1,2-Dibromoethane	9.30		ug/L	10.00		93	70-130			
1,2-Dichlorobenzene	9.24		ug/L	10.00		92	70-130			
1,2-Dichloroethane	9.50		ug/L	10.00		95	70-130			
1,2-Dichloropropane	9.02		ug/L	10.00		90	70-130			
1,3,5-Trimethylbenzene	9.98		ug/L	10.00		100	70-130			
1,3-Dichlorobenzene	9.50		ug/L	10.00		95	70-130			
1,3-Dichloropropane	10.0		ug/L	10.00		100	70-130			
1,4-Dichlorobenzene	9.55		ug/L	10.00		96	70-130			
1,4-Dioxane - Screen	191		ug/L	200.0		95	0-332			
1-Chlorohexane	8.23		ug/L	10.00		82	70-130			
2,2-Dichloropropane	9.98		ug/L	10.00		100	70-130			
2-Butanone	49.1		ug/L	50.00		98	70-130			
2-Chlorotoluene	9.32		ug/L	10.00		93	70-130			
2-Hexanone	47.5		ug/L	50.00		95	70-130			
4-Chlorotoluene	9.61		ug/L	10.00		96	70-130			
4-Isopropyltoluene	9.46		ug/L	10.00		95	70-130			
4-Methyl-2-Pentanone	47.4		ug/L	50.00		95	70-130			
Acetone	58.1		ug/L	50.00		116	70-130			
Benzene	9.28		ug/L	10.00		93	70-130			
Bromobenzene	9.53		ug/L	10.00		95	70-130			
Bromochloromethane	9.85		ug/L	10.00		98	70-130			
Bromodichloromethane	9.59		ug/L	10.00		96	70-130			
Bromoform	11.8		ug/L	10.00		118	70-130			
Bromomethane	12.6		ug/L	10.00		126	70-130			
Carbon Disulfide	9.12		ug/L	10.00		91	70-130			
Carbon Tetrachloride	11.4		ug/L	10.00		114	70-130			
Chlorobenzene	9.32		ug/L	10.00		93	70-130			
Chloroethane	8.41		ug/L	10.00		84	70-130			
Chloroform	9.11		ug/L	10.00		91	70-130			
Chloromethane	9.84		ug/L	10.00		98	70-130			
cis-1,2-Dichloroethene	9.56		ug/L	10.00		96	70-130			
cis-1,3-Dichloropropene	9.85		ug/L	10.00		98	70-130			
Dibromochloromethane	10.9		ug/L	10.00		109	70-130			
Dibromomethane	9.80		ug/L	10.00		98	70-130			
Dichlorodifluoromethane	7.87		ug/L	10.00		79	70-130			
Diethyl Ether	9.51		ug/L	10.00		95	70-130			
Di-isopropyl ether	8.44		ug/L	10.00		84	70-130			
Ethyl tertiary-butyl ether	8.26		ug/L	10.00		83	70-130			
Ethylbenzene	8.96		ug/L	10.00		90	70-130			
Hexachlorobutadiene	11.1		ug/L	10.00		111	70-130			
Hexachloroethane	13.6		ug/L	10.00		136	70-130			B+



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham - Groundwater

ESS Laboratory Work Order: 1507338

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8260B Volatile Organic Compounds

Batch CG51636 - 5030B

Isopropylbenzene	9.12		ug/L	10.00		91	70-130			
Methyl tert-Butyl Ether	8.60		ug/L	10.00		86	70-130			
Methylene Chloride	10.0		ug/L	10.00		100	70-130			
Naphthalene	9.91		ug/L	10.00		99	70-130			
n-Butylbenzene	9.15		ug/L	10.00		92	70-130			
n-Propylbenzene	9.29		ug/L	10.00		93	70-130			
sec-Butylbenzene	9.57		ug/L	10.00		96	70-130			
Styrene	8.95		ug/L	10.00		90	70-130			
tert-Butylbenzene	9.30		ug/L	10.00		93	70-130			
Tertiary-amyl methyl ether	7.86		ug/L	10.00		79	70-130			
Tetrachloroethene	7.89		ug/L	10.00		79	70-130			
Tetrahydrofuran	9.09		ug/L	10.00		91	70-130			
Toluene	9.62		ug/L	10.00		96	70-130			
trans-1,2-Dichloroethene	8.38		ug/L	10.00		84	70-130			
trans-1,3-Dichloropropene	9.07		ug/L	10.00		91	70-130			
Trichloroethene	8.65		ug/L	10.00		86	70-130			
Trichlorofluoromethane	8.19		ug/L	10.00		82	70-130			
Trihalomethanes (Total)	41.4		mg/L							
Vinyl Acetate	11.8		ug/L	10.00		118	70-130			
Vinyl Chloride	9.87		ug/L	10.00		99	70-130			
Xylene O	9.82		ug/L	10.00		98	70-130			
Xylene P,M	19.1		ug/L	20.00		96	70-130			
Xylenes (Total)	29.0		mg/L							
Surrogate: 1,2-Dichloroethane-d4	0.0229		mg/L	0.02500		92	70-130			
Surrogate: 4-Bromofluorobenzene	0.0232		mg/L	0.02500		93	70-130			
Surrogate: Dibromofluoromethane	0.0256		mg/L	0.02500		102	70-130			
Surrogate: Toluene-d8	0.0229		mg/L	0.02500		92	70-130			

LCS Dup

1,1,1,2-Tetrachloroethane	10.6		ug/L	10.00		106	70-130	2	25	
1,1,1-Trichloroethane	10.0		ug/L	10.00		100	70-130	1	25	
1,1,2,2-Tetrachloroethane	9.45		ug/L	10.00		94	70-130	6	25	
1,1,2-Trichloroethane	8.77		ug/L	10.00		88	70-130	4	25	
1,1-Dichloroethane	8.78		ug/L	10.00		88	70-130	3	25	
1,1-Dichloroethene	8.92		ug/L	10.00		89	70-130	2	25	
1,1-Dichloropropene	8.64		ug/L	10.00		86	70-130	3	25	
1,2,3-Trichlorobenzene	8.77		ug/L	10.00		88	70-130	6	25	
1,2,3-Trichloropropane	8.54		ug/L	10.00		85	70-130	5	25	
1,2,4-Trichlorobenzene	8.40		ug/L	10.00		84	70-130	7	25	
1,2,4-Trimethylbenzene	9.22		ug/L	10.00		92	70-130	3	25	
1,2-Dibromo-3-Chloropropane	11.9		ug/L	10.00		119	70-130	2	25	
1,2-Dibromoethane	9.18		ug/L	10.00		92	70-130	1	25	
1,2-Dichlorobenzene	8.97		ug/L	10.00		90	70-130	3	25	
1,2-Dichloroethane	9.27		ug/L	10.00		93	70-130	2	25	
1,2-Dichloropropane	8.74		ug/L	10.00		87	70-130	3	25	
1,3,5-Trimethylbenzene	9.65		ug/L	10.00		96	70-130	3	25	



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham - Groundwater

ESS Laboratory Work Order: 1507338

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8260B Volatile Organic Compounds

Batch CG51636 - 5030B

1,3-Dichlorobenzene	9.16		ug/L	10.00		92	70-130	4	25	
1,3-Dichloropropane	9.87		ug/L	10.00		99	70-130	2	25	
1,4-Dichlorobenzene	9.31		ug/L	10.00		93	70-130	3	25	
1,4-Dioxane - Screen	181		ug/L	200.0		90	0-332	5	200	
1-Chlorohexane	8.17		ug/L	10.00		82	70-130	0.7	25	
2,2-Dichloropropane	9.80		ug/L	10.00		98	70-130	2	25	
2-Butanone	46.9		ug/L	50.00		94	70-130	5	25	
2-Chlorotoluene	8.93		ug/L	10.00		89	70-130	4	25	
2-Hexanone	44.2		ug/L	50.00		88	70-130	7	25	
4-Chlorotoluene	9.29		ug/L	10.00		93	70-130	3	25	
4-Isopropyltoluene	9.15		ug/L	10.00		92	70-130	3	25	
4-Methyl-2-Pentanone	45.1		ug/L	50.00		90	70-130	5	25	
Acetone	48.9		ug/L	50.00		98	70-130	17	25	
Benzene	9.20		ug/L	10.00		92	70-130	0.9	25	
Bromobenzene	9.18		ug/L	10.00		92	70-130	4	25	
Bromochloromethane	9.94		ug/L	10.00		99	70-130	0.9	25	
Bromodichloromethane	9.53		ug/L	10.00		95	70-130	0.6	25	
Bromoform	11.4		ug/L	10.00		114	70-130	4	25	
Bromomethane	11.7		ug/L	10.00		117	70-130	7	25	
Carbon Disulfide	9.10		ug/L	10.00		91	70-130	0.2	25	
Carbon Tetrachloride	11.4		ug/L	10.00		114	70-130	0.6	25	
Chlorobenzene	9.09		ug/L	10.00		91	70-130	2	25	
Chloroethane	8.47		ug/L	10.00		85	70-130	0.7	25	
Chloroform	9.05		ug/L	10.00		90	70-130	0.7	25	
Chloromethane	9.49		ug/L	10.00		95	70-130	4	25	
cis-1,2-Dichloroethene	9.35		ug/L	10.00		94	70-130	2	25	
cis-1,3-Dichloropropene	9.65		ug/L	10.00		96	70-130	2	25	
Dibromochloromethane	10.8		ug/L	10.00		108	70-130	2	25	
Dibromomethane	9.50		ug/L	10.00		95	70-130	3	25	
Dichlorodifluoromethane	7.70		ug/L	10.00		77	70-130	2	25	
Diethyl Ether	9.47		ug/L	10.00		95	70-130	0.4	25	
Di-isopropyl ether	8.34		ug/L	10.00		83	70-130	1	25	
Ethyl tertiary-butyl ether	8.32		ug/L	10.00		83	70-130	0.7	25	
Ethylbenzene	8.95		ug/L	10.00		90	70-130	0.1	25	
Hexachlorobutadiene	10.2		ug/L	10.00		102	70-130	9	25	
Hexachloroethane	13.0		ug/L	10.00		130	70-130	4	25	
Isopropylbenzene	8.79		ug/L	10.00		88	70-130	4	25	
Methyl tert-Butyl Ether	8.63		ug/L	10.00		86	70-130	0.3	25	
Methylene Chloride	9.71		ug/L	10.00		97	70-130	3	25	
Naphthalene	9.03		ug/L	10.00		90	70-130	9	25	
n-Butylbenzene	8.63		ug/L	10.00		86	70-130	6	25	
n-Propylbenzene	9.07		ug/L	10.00		91	70-130	2	25	
sec-Butylbenzene	9.25		ug/L	10.00		92	70-130	3	25	
Styrene	8.88		ug/L	10.00		89	70-130	0.8	25	
tert-Butylbenzene	9.09		ug/L	10.00		91	70-130	2	25	



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham - Groundwater

ESS Laboratory Work Order: 1507338

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8260B Volatile Organic Compounds

Batch CG51636 - 5030B

Tertiary-amyl methyl ether	7.65		ug/L	10.00		76	70-130	3	25	
Tetrachloroethene	8.27		ug/L	10.00		83	70-130	5	25	
Tetrahydrofuran	8.83		ug/L	10.00		88	70-130	3	25	
Toluene	9.49		ug/L	10.00		95	70-130	1	25	
trans-1,2-Dichloroethene	8.50		ug/L	10.00		85	70-130	1	25	
trans-1,3-Dichloropropene	9.05		ug/L	10.00		90	70-130	0.2	25	
Trichloroethene	8.89		ug/L	10.00		89	70-130	3	25	
Trichlorofluoromethane	7.99		ug/L	10.00		80	70-130	2	25	
Trihalomethanes (Total)	40.8		mg/L							
Vinyl Acetate	12.0		ug/L	10.00		120	70-130	2	25	
Vinyl Chloride	9.24		ug/L	10.00		92	70-130	7	25	
Xylene O	9.49		ug/L	10.00		95	70-130	3	25	
Xylene P,M	19.0		ug/L	20.00		95	70-130	0.8	25	
Xylenes (Total)	28.5		mg/L							
Surrogate: 1,2-Dichloroethane-d4	0.0227		mg/L	0.02500		91	70-130			
Surrogate: 4-Bromofluorobenzene	0.0231		mg/L	0.02500		92	70-130			
Surrogate: Dibromofluoromethane	0.0254		mg/L	0.02500		102	70-130			
Surrogate: Toluene-d8	0.0231		mg/L	0.02500		92	70-130			

Matrix Spike Source: 1507338-04

1,1,1,2-Tetrachloroethane	11.2		ug/L	10.00	ND	112	70-130			
1,1,1-Trichloroethane	10.7		ug/L	10.00	0.110	106	70-130			
1,1,2,2-Tetrachloroethane	9.73		ug/L	10.00	ND	97	70-130			
1,1,2-Trichloroethane	9.20		ug/L	10.00	ND	92	70-130			
1,1-Dichloroethane	8.92		ug/L	10.00	ND	89	70-130			
1,1-Dichloroethene	10.7		ug/L	10.00	2.55	81	70-130			
1,1-Dichloropropene	8.14		ug/L	10.00	ND	81	70-130			
1,2,3-Trichlorobenzene	7.74		ug/L	10.00	ND	77	70-130			
1,2,3-Trichloropropane	8.62		ug/L	10.00	ND	86	70-130			
1,2,4-Trichlorobenzene	7.33		ug/L	10.00	ND	73	70-130			
1,2,4-Trimethylbenzene	8.65		ug/L	10.00	ND	86	70-130			
1,2-Dibromo-3-Chloropropane	11.2		ug/L	10.00	ND	112	70-130			
1,2-Dibromoethane	9.60		ug/L	10.00	ND	96	70-130			
1,2-Dichlorobenzene	8.78		ug/L	10.00	ND	88	70-130			
1,2-Dichloroethane	9.71		ug/L	10.00	ND	97	70-130			
1,2-Dichloropropane	13.0		ug/L	10.00	ND	130	70-130			
1,3,5-Trimethylbenzene	9.30		ug/L	10.00	ND	93	70-130			
1,3-Dichlorobenzene	9.12		ug/L	10.00	ND	91	70-130			
1,3-Dichloropropane	9.94		ug/L	10.00	ND	99	70-130			
1,4-Dichlorobenzene	8.94		ug/L	10.00	ND	89	70-130			
1,4-Dioxane - Screen	191		ug/L	200.0	ND	96	0-332			
1-Chlorohexane	7.96		ug/L	10.00	ND	80	70-130			
2,2-Dichloropropane	8.99		ug/L	10.00	ND	90	70-130			
2-Butanone	46.1		ug/L	50.00	ND	92	70-130			
2-Chlorotoluene	8.94		ug/L	10.00	ND	89	70-130			
2-Hexanone	43.9		ug/L	50.00	ND	88	70-130			



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham - Groundwater

ESS Laboratory Work Order: 1507338

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8260B Volatile Organic Compounds

Batch CG51636 - 5030B

4-Chlorotoluene	9.12		ug/L	10.00	ND	91	70-130			
4-Isopropyltoluene	8.64		ug/L	10.00	ND	86	70-130			
4-Methyl-2-Pentanone	47.0		ug/L	50.00	ND	94	70-130			
Acetone	45.3		ug/L	50.00	ND	91	70-130			
Benzene	9.23		ug/L	10.00	ND	92	70-130			
Bromobenzene	9.07		ug/L	10.00	ND	91	70-130			
Bromochloromethane	9.81		ug/L	10.00	ND	98	70-130			
Bromodichloromethane	9.89		ug/L	10.00	ND	99	70-130			
Bromoform	12.3		ug/L	10.00	ND	123	70-130			
Bromomethane	6.80		ug/L	10.00	ND	68	70-130			M-
Carbon Disulfide	9.09		ug/L	10.00	ND	91	70-130			
Carbon Tetrachloride	12.0		ug/L	10.00	ND	120	70-130			
Chlorobenzene	9.31		ug/L	10.00	ND	93	70-130			
Chloroethane	8.72		ug/L	10.00	ND	87	70-130			
Chloroform	9.62		ug/L	10.00	0.440	92	70-130			
Chloromethane	8.96		ug/L	10.00	ND	90	70-130			
cis-1,2-Dichloroethene	45.4		ug/L	10.00	50.6	NR	70-130			MT
cis-1,3-Dichloropropene	9.69		ug/L	10.00	ND	97	70-130			
Dibromochloromethane	11.1		ug/L	10.00	ND	111	70-130			
Dibromomethane	9.93		ug/L	10.00	ND	99	70-130			
Dichlorodifluoromethane	8.21		ug/L	10.00	ND	82	70-130			
Diethyl Ether	8.96		ug/L	10.00	ND	90	70-130			
Di-isopropyl ether	8.14		ug/L	10.00	ND	81	70-130			
Ethyl tertiary-butyl ether	8.42		ug/L	10.00	ND	84	70-130			
Ethylbenzene	9.06		ug/L	10.00	ND	91	70-130			
Hexachlorobutadiene	8.99		ug/L	10.00	ND	90	70-130			
Hexachloroethane	13.0		ug/L	10.00	ND	130	70-130			
Isopropylbenzene	8.69		ug/L	10.00	ND	87	70-130			
Methyl tert-Butyl Ether	8.45		ug/L	10.00	ND	84	70-130			
Methylene Chloride	9.35		ug/L	10.00	ND	94	70-130			
Naphthalene	7.00		ug/L	10.00	ND	70	70-130			
n-Butylbenzene	7.20		ug/L	10.00	ND	72	70-130			
n-Propylbenzene	8.77		ug/L	10.00	ND	88	70-130			
sec-Butylbenzene	8.93		ug/L	10.00	ND	89	70-130			
Styrene	8.47		ug/L	10.00	ND	85	70-130			
tert-Butylbenzene	8.71		ug/L	10.00	ND	87	70-130			
Tertiary-amyl methyl ether	7.47		ug/L	10.00	ND	75	70-130			
Tetrachloroethene	9.39		ug/L	10.00	1.70	77	70-130			
Tetrahydrofuran	8.71		ug/L	10.00	ND	87	70-130			
Toluene	9.88		ug/L	10.00	ND	99	70-130			
trans-1,2-Dichloroethene	9.41		ug/L	10.00	1.50	79	70-130			
trans-1,3-Dichloropropene	8.91		ug/L	10.00	ND	89	70-130			
Trichloroethene	661		ug/L	10.00	826	NR	70-130			MT
Trichlorofluoromethane	8.68		ug/L	10.00	0.210	85	70-130			
Trihalomethanes (Total)	42.8		mg/L							



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham - Groundwater

ESS Laboratory Work Order: 1507338

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8260B Volatile Organic Compounds

Batch CG51636 - 5030B

Vinyl Acetate	10.1		ug/L	10.00	ND	101	70-130			
Vinyl Chloride	11.8		ug/L	10.00	3.32	85	70-130			
Xylene O	9.63		ug/L	10.00	ND	96	70-130			
Xylene P,M	19.1		ug/L	20.00	ND	95	70-130			
Xylenes (Total)	28.7		mg/L							
Surrogate: 1,2-Dichloroethane-d4	0.0236		mg/L	0.02500		95	70-130			
Surrogate: 4-Bromofluorobenzene	0.0236		mg/L	0.02500		94	70-130			
Surrogate: Dibromofluoromethane	0.0260		mg/L	0.02500		104	70-130			
Surrogate: Toluene-d8	0.0232		mg/L	0.02500		93	70-130			

Matrix Spike Dup Source: 1507338-04

1,1,1,2-Tetrachloroethane	10.9		ug/L	10.00	ND	109	70-130	3	30	
1,1,1-Trichloroethane	10.8		ug/L	10.00	0.110	107	70-130	0.7	30	
1,1,2,2-Tetrachloroethane	10.4		ug/L	10.00	ND	104	70-130	6	30	
1,1,2-Trichloroethane	9.65		ug/L	10.00	ND	96	70-130	5	30	
1,1-Dichloroethane	9.13		ug/L	10.00	ND	91	70-130	2	30	
1,1-Dichloroethene	10.8		ug/L	10.00	2.55	83	70-130	2	30	
1,1-Dichloropropene	8.39		ug/L	10.00	ND	84	70-130	3	30	
1,2,3-Trichlorobenzene	8.52		ug/L	10.00	ND	85	70-130	10	30	
1,2,3-Trichloropropane	9.07		ug/L	10.00	ND	91	70-130	5	30	
1,2,4-Trichlorobenzene	8.19		ug/L	10.00	ND	82	70-130	11	30	
1,2,4-Trimethylbenzene	8.99		ug/L	10.00	ND	90	70-130	4	30	
1,2-Dibromo-3-Chloropropane	12.7		ug/L	10.00	ND	127	70-130	12	30	
1,2-Dibromoethane	10.0		ug/L	10.00	ND	100	70-130	4	30	
1,2-Dichlorobenzene	9.23		ug/L	10.00	ND	92	70-130	5	30	
1,2-Dichloroethane	9.92		ug/L	10.00	ND	99	70-130	2	30	
1,2-Dichloropropane	13.0		ug/L	10.00	ND	130	70-130	0.5	30	
1,3,5-Trimethylbenzene	9.79		ug/L	10.00	ND	98	70-130	5	30	
1,3-Dichlorobenzene	9.46		ug/L	10.00	ND	95	70-130	4	30	
1,3-Dichloropropane	10.5		ug/L	10.00	ND	105	70-130	6	30	
1,4-Dichlorobenzene	9.32		ug/L	10.00	ND	93	70-130	4	30	
1,4-Dioxane - Screen	203		ug/L	200.0	ND	101	0-332	6	200	
1-Chlorohexane	8.22		ug/L	10.00	ND	82	70-130	3	30	
2,2-Dichloropropane	9.09		ug/L	10.00	ND	91	70-130	1	30	
2-Butanone	48.2		ug/L	50.00	ND	96	70-130	4	30	
2-Chlorotoluene	9.17		ug/L	10.00	ND	92	70-130	3	30	
2-Hexanone	49.0		ug/L	50.00	ND	98	70-130	11	30	
4-Chlorotoluene	9.44		ug/L	10.00	ND	94	70-130	3	30	
4-Isopropyltoluene	9.13		ug/L	10.00	ND	91	70-130	6	30	
4-Methyl-2-Pentanone	49.2		ug/L	50.00	ND	98	70-130	5	30	
Acetone	47.8		ug/L	50.00	ND	96	70-130	5	30	
Benzene	9.47		ug/L	10.00	ND	95	70-130	3	30	
Bromobenzene	9.24		ug/L	10.00	ND	92	70-130	2	30	
Bromochloromethane	10.4		ug/L	10.00	ND	104	70-130	6	30	
Bromodichloromethane	10.3		ug/L	10.00	ND	103	70-130	4	30	
Bromoform	12.6		ug/L	10.00	ND	126	70-130	3	30	



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham - Groundwater

ESS Laboratory Work Order: 1507338

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8260B Volatile Organic Compounds										
Batch CG51636 - 5030B										
Bromomethane	8.22		ug/L	10.00	ND	82	70-130	19	30	
Carbon Disulfide	9.26		ug/L	10.00	ND	93	70-130	2	30	
Carbon Tetrachloride	11.7		ug/L	10.00	ND	117	70-130	2	30	
Chlorobenzene	9.68		ug/L	10.00	ND	97	70-130	4	30	
Chloroethane	9.10		ug/L	10.00	ND	91	70-130	4	30	
Chloroform	9.91		ug/L	10.00	0.440	95	70-130	3	30	
Chloromethane	9.54		ug/L	10.00	ND	95	70-130	6	30	
cis-1,2-Dichloroethene	46.6		ug/L	10.00	50.6	NR	70-130	NR	30	MT
cis-1,3-Dichloropropene	9.91		ug/L	10.00	ND	99	70-130	2	30	
Dibromochloromethane	11.6		ug/L	10.00	ND	116	70-130	5	30	
Dibromomethane	9.93		ug/L	10.00	ND	99	70-130	0	30	
Dichlorodifluoromethane	8.18		ug/L	10.00	ND	82	70-130	0.4	30	
Diethyl Ether	9.24		ug/L	10.00	ND	92	70-130	3	30	
Di-isopropyl ether	8.52		ug/L	10.00	ND	85	70-130	5	30	
Ethyl tertiary-butyl ether	8.65		ug/L	10.00	ND	86	70-130	3	30	
Ethylbenzene	9.17		ug/L	10.00	ND	92	70-130	1	30	
Hexachlorobutadiene	9.86		ug/L	10.00	ND	99	70-130	9	30	
Hexachloroethane	13.1		ug/L	10.00	ND	131	70-130	1	30	M+
Isopropylbenzene	8.96		ug/L	10.00	ND	90	70-130	3	30	
Methyl tert-Butyl Ether	8.80		ug/L	10.00	ND	88	70-130	4	30	
Methylene Chloride	9.70		ug/L	10.00	ND	97	70-130	4	30	
Naphthalene	8.61		ug/L	10.00	ND	86	70-130	21	30	
n-Butylbenzene	8.27		ug/L	10.00	ND	83	70-130	14	30	
n-Propylbenzene	9.10		ug/L	10.00	ND	91	70-130	4	30	
sec-Butylbenzene	9.30		ug/L	10.00	ND	93	70-130	4	30	
Styrene	8.82		ug/L	10.00	ND	88	70-130	4	30	
tert-Butylbenzene	9.03		ug/L	10.00	ND	90	70-130	4	30	
Tertiary-amyl methyl ether	7.88		ug/L	10.00	ND	79	70-130	5	30	
Tetrachloroethene	9.31		ug/L	10.00	1.70	76	70-130	1	30	
Tetrahydrofuran	9.19		ug/L	10.00	ND	92	70-130	5	30	
Toluene	10.1		ug/L	10.00	ND	101	70-130	2	30	
trans-1,2-Dichloroethene	9.44		ug/L	10.00	1.50	79	70-130	0.4	30	
trans-1,3-Dichloropropene	9.15		ug/L	10.00	ND	92	70-130	3	30	
Trichloroethene	667		ug/L	10.00	826	NR	70-130	NR	30	MT
Trichlorofluoromethane	8.73		ug/L	10.00	0.210	85	70-130	0.6	30	
Trihalomethanes (Total)	44.5		mg/L							
Vinyl Acetate	10.0		ug/L	10.00	ND	100	70-130	0.9	30	
Vinyl Chloride	12.0		ug/L	10.00	3.32	87	70-130	2	30	
Xylene O	9.85		ug/L	10.00	ND	98	70-130	2	30	
Xylene P,M	19.4		ug/L	20.00	ND	97	70-130	2	30	
Xylenes (Total)	29.2		mg/L							
Surrogate: 1,2-Dichloroethane-d4	0.0238		mg/L	0.02500		95	70-130			
Surrogate: 4-Bromofluorobenzene	0.0234		mg/L	0.02500		94	70-130			
Surrogate: Dibromofluoromethane	0.0261		mg/L	0.02500		104	70-130			
Surrogate: Toluene-d8	0.0235		mg/L	0.02500		94	70-130			



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham - Groundwater

ESS Laboratory Work Order: 1507338

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8260B Volatile Organic Compounds

Batch CG51742 - 5030B

Blank

1,1,1,2-Tetrachloroethane	ND	0.0010	mg/L							
1,1,1-Trichloroethane	ND	0.0010	mg/L							
1,1,2,2-Tetrachloroethane	ND	0.0005	mg/L							
1,1,2-Trichloroethane	ND	0.0010	mg/L							
1,1-Dichloroethane	ND	0.0010	mg/L							
1,1-Dichloroethene	ND	0.0010	mg/L							
1,1-Dichloropropene	ND	0.0020	mg/L							
1,2,3-Trichlorobenzene	ND	0.0010	mg/L							
1,2,3-Trichloropropane	ND	0.0010	mg/L							
1,2,4-Trichlorobenzene	ND	0.0010	mg/L							
1,2,4-Trimethylbenzene	ND	0.0010	mg/L							
1,2-Dibromo-3-Chloropropane	ND	0.0050	mg/L							
1,2-Dibromoethane	ND	0.0010	mg/L							
1,2-Dichlorobenzene	ND	0.0010	mg/L							
1,2-Dichloroethane	ND	0.0010	mg/L							
1,2-Dichloropropane	ND	0.0010	mg/L							
1,3,5-Trimethylbenzene	ND	0.0010	mg/L							
1,3-Dichlorobenzene	ND	0.0010	mg/L							
1,3-Dichloropropane	ND	0.0010	mg/L							
1,4-Dichlorobenzene	ND	0.0010	mg/L							
1,4-Dioxane - Screen	ND	0.500	mg/L							
1-Chlorohexane	ND	0.0010	mg/L							
2,2-Dichloropropane	ND	0.0010	mg/L							
2-Butanone	ND	0.0100	mg/L							
2-Chlorotoluene	ND	0.0010	mg/L							
2-Hexanone	ND	0.0100	mg/L							
4-Chlorotoluene	ND	0.0010	mg/L							
4-Isopropyltoluene	ND	0.0010	mg/L							
4-Methyl-2-Pentanone	ND	0.0250	mg/L							
Acetone	ND	0.0100	mg/L							
Benzene	ND	0.0010	mg/L							
Bromobenzene	ND	0.0020	mg/L							
Bromochloromethane	ND	0.0010	mg/L							
Bromodichloromethane	ND	0.0006	mg/L							
Bromoform	ND	0.0010	mg/L							
Bromomethane	ND	0.0020	mg/L							
Carbon Disulfide	ND	0.0010	mg/L							
Carbon Tetrachloride	ND	0.0010	mg/L							
Chlorobenzene	ND	0.0010	mg/L							
Chloroethane	ND	0.0020	mg/L							
Chloroform	ND	0.0010	mg/L							
Chloromethane	ND	0.0020	mg/L							
cis-1,2-Dichloroethene	ND	0.0010	mg/L							
cis-1,3-Dichloropropene	ND	0.0004	mg/L							



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham - Groundwater

ESS Laboratory Work Order: 1507338

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8260B Volatile Organic Compounds

Batch CG51742 - 5030B

Dibromochloromethane	ND	0.0010	mg/L							
Dibromomethane	ND	0.0010	mg/L							
Dichlorodifluoromethane	ND	0.0020	mg/L							
Diethyl Ether	ND	0.0010	mg/L							
Di-isopropyl ether	ND	0.0010	mg/L							
Ethyl tertiary-butyl ether	ND	0.0010	mg/L							
Ethylbenzene	ND	0.0010	mg/L							
Hexachlorobutadiene	ND	0.0006	mg/L							
Hexachloroethane	ND	0.0010	mg/L							
Isopropylbenzene	ND	0.0010	mg/L							
Methyl tert-Butyl Ether	ND	0.0010	mg/L							
Methylene Chloride	ND	0.0020	mg/L							
Naphthalene	ND	0.0010	mg/L							
n-Butylbenzene	ND	0.0010	mg/L							
n-Propylbenzene	ND	0.0010	mg/L							
sec-Butylbenzene	ND	0.0010	mg/L							
Styrene	ND	0.0010	mg/L							
tert-Butylbenzene	ND	0.0010	mg/L							
Tertiary-amyl methyl ether	ND	0.0010	mg/L							
Tetrachloroethene	ND	0.0010	mg/L							
Tetrahydrofuran	ND	0.0050	mg/L							
Toluene	ND	0.0010	mg/L							
trans-1,2-Dichloroethene	ND	0.0010	mg/L							
trans-1,3-Dichloropropene	ND	0.0004	mg/L							
Trichloroethene	ND	0.0010	mg/L							
Trichlorofluoromethane	ND	0.0010	mg/L							
Trihalomethanes (Total)	ND	0.0010	mg/L							
Vinyl Acetate	ND	0.0050	mg/L							
Vinyl Chloride	ND	0.0010	mg/L							
Xylene O	ND	0.0010	mg/L							
Xylene P,M	ND	0.0020	mg/L							
Xylenes (Total)	ND	0.0020	mg/L							
Surrogate: 1,2-Dichloroethane-d4	0.0218		mg/L	0.02500		87	70-130			
Surrogate: 4-Bromofluorobenzene	0.0195		mg/L	0.02500		78	70-130			
Surrogate: Dibromofluoromethane	0.0236		mg/L	0.02500		94	70-130			
Surrogate: Toluene-d8	0.0188		mg/L	0.02500		75	70-130			

LCS

1,1,1,2-Tetrachloroethane	11.2		ug/L	10.00		112	70-130			
1,1,1-Trichloroethane	10.4		ug/L	10.00		104	70-130			
1,1,2,2-Tetrachloroethane	9.96		ug/L	10.00		100	70-130			
1,1,2-Trichloroethane	9.15		ug/L	10.00		92	70-130			
1,1-Dichloroethane	8.78		ug/L	10.00		88	70-130			
1,1-Dichloroethene	8.65		ug/L	10.00		86	70-130			
1,1-Dichloropropene	8.74		ug/L	10.00		87	70-130			
1,2,3-Trichlorobenzene	9.13		ug/L	10.00		91	70-130			



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Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8260B Volatile Organic Compounds

Batch CG51742 - 5030B

1,2,3-Trichloropropane	8.89		ug/L	10.00		89	70-130			
1,2,4-Trichlorobenzene	8.85		ug/L	10.00		88	70-130			
1,2,4-Trimethylbenzene	9.42		ug/L	10.00		94	70-130			
1,2-Dibromo-3-Chloropropane	11.4		ug/L	10.00		114	70-130			
1,2-Dibromoethane	9.78		ug/L	10.00		98	70-130			
1,2-Dichlorobenzene	9.04		ug/L	10.00		90	70-130			
1,2-Dichloroethane	9.61		ug/L	10.00		96	70-130			
1,2-Dichloropropane	8.96		ug/L	10.00		90	70-130			
1,3,5-Trimethylbenzene	9.75		ug/L	10.00		98	70-130			
1,3-Dichlorobenzene	9.63		ug/L	10.00		96	70-130			
1,3-Dichloropropane	10.3		ug/L	10.00		103	70-130			
1,4-Dichlorobenzene	9.31		ug/L	10.00		93	70-130			
1,4-Dioxane - Screen	190		ug/L	200.0		95	0-332			
1-Chlorohexane	8.13		ug/L	10.00		81	70-130			
2,2-Dichloropropane	10.1		ug/L	10.00		101	70-130			
2-Butanone	47.2		ug/L	50.00		94	70-130			
2-Chlorotoluene	9.26		ug/L	10.00		93	70-130			
2-Hexanone	48.7		ug/L	50.00		97	70-130			
4-Chlorotoluene	9.43		ug/L	10.00		94	70-130			
4-Isopropyltoluene	9.37		ug/L	10.00		94	70-130			
4-Methyl-2-Pentanone	46.6		ug/L	50.00		93	70-130			
Acetone	54.4		ug/L	50.00		109	70-130			
Benzene	9.24		ug/L	10.00		92	70-130			
Bromobenzene	9.27		ug/L	10.00		93	70-130			
Bromochloromethane	9.78		ug/L	10.00		98	70-130			
Bromodichloromethane	9.63		ug/L	10.00		96	70-130			
Bromoform	12.3		ug/L	10.00		123	70-130			
Bromomethane	10.5		ug/L	10.00		105	70-130			
Carbon Disulfide	9.04		ug/L	10.00		90	70-130			
Carbon Tetrachloride	11.5		ug/L	10.00		115	70-130			
Chlorobenzene	9.50		ug/L	10.00		95	70-130			
Chloroethane	8.84		ug/L	10.00		88	70-130			
Chloroform	9.20		ug/L	10.00		92	70-130			
Chloromethane	9.83		ug/L	10.00		98	70-130			
cis-1,2-Dichloroethene	9.49		ug/L	10.00		95	70-130			
cis-1,3-Dichloropropene	9.63		ug/L	10.00		96	70-130			
Dibromochloromethane	11.5		ug/L	10.00		115	70-130			
Dibromomethane	9.61		ug/L	10.00		96	70-130			
Dichlorodifluoromethane	7.87		ug/L	10.00		79	70-130			
Diethyl Ether	9.15		ug/L	10.00		92	70-130			
Di-isopropyl ether	8.28		ug/L	10.00		83	70-130			
Ethyl tertiary-butyl ether	8.35		ug/L	10.00		84	70-130			
Ethylbenzene	9.28		ug/L	10.00		93	70-130			
Hexachlorobutadiene	10.6		ug/L	10.00		106	70-130			
Hexachloroethane	13.2		ug/L	10.00		132	70-130			M+



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham - Groundwater

ESS Laboratory Work Order: 1507338

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8260B Volatile Organic Compounds

Batch CG51742 - 5030B

Isopropylbenzene	8.91		ug/L	10.00		89	70-130			
Methyl tert-Butyl Ether	8.55		ug/L	10.00		86	70-130			
Methylene Chloride	9.42		ug/L	10.00		94	70-130			
Naphthalene	9.86		ug/L	10.00		99	70-130			
n-Butylbenzene	8.91		ug/L	10.00		89	70-130			
n-Propylbenzene	9.13		ug/L	10.00		91	70-130			
sec-Butylbenzene	9.39		ug/L	10.00		94	70-130			
Styrene	9.14		ug/L	10.00		91	70-130			
tert-Butylbenzene	8.96		ug/L	10.00		90	70-130			
Tertiary-amyl methyl ether	7.80		ug/L	10.00		78	70-130			
Tetrachloroethene	8.33		ug/L	10.00		83	70-130			
Tetrahydrofuran	9.32		ug/L	10.00		93	70-130			
Toluene	9.61		ug/L	10.00		96	70-130			
trans-1,2-Dichloroethene	8.46		ug/L	10.00		85	70-130			
trans-1,3-Dichloropropene	8.96		ug/L	10.00		90	70-130			
Trichloroethene	8.66		ug/L	10.00		87	70-130			
Trichlorofluoromethane	8.16		ug/L	10.00		82	70-130			
Trihalomethanes (Total)	42.6		mg/L							
Vinyl Acetate	12.5		ug/L	10.00		125	70-130			
Vinyl Chloride	9.82		ug/L	10.00		98	70-130			
Xylene O	10.0		ug/L	10.00		100	70-130			
Xylene P,M	19.6		ug/L	20.00		98	70-130			
Xylenes (Total)	29.7		mg/L							
Surrogate: 1,2-Dichloroethane-d4	0.0230		mg/L	0.02500		92	70-130			
Surrogate: 4-Bromofluorobenzene	0.0244		mg/L	0.02500		97	70-130			
Surrogate: Dibromofluoromethane	0.0257		mg/L	0.02500		103	70-130			
Surrogate: Toluene-d8	0.0237		mg/L	0.02500		95	70-130			

LCS Dup

1,1,1,2-Tetrachloroethane	11.0		ug/L	10.00		110	70-130	2	25	
1,1,1-Trichloroethane	10.4		ug/L	10.00		104	70-130	0.5	25	
1,1,2,2-Tetrachloroethane	9.71		ug/L	10.00		97	70-130	3	25	
1,1,2-Trichloroethane	8.96		ug/L	10.00		90	70-130	2	25	
1,1-Dichloroethane	8.95		ug/L	10.00		90	70-130	2	25	
1,1-Dichloroethene	8.64		ug/L	10.00		86	70-130	0.1	25	
1,1-Dichloropropene	8.49		ug/L	10.00		85	70-130	3	25	
1,2,3-Trichlorobenzene	8.70		ug/L	10.00		87	70-130	5	25	
1,2,3-Trichloropropane	8.86		ug/L	10.00		89	70-130	0.3	25	
1,2,4-Trichlorobenzene	8.40		ug/L	10.00		84	70-130	5	25	
1,2,4-Trimethylbenzene	9.06		ug/L	10.00		91	70-130	4	25	
1,2-Dibromo-3-Chloropropane	11.9		ug/L	10.00		119	70-130	4	25	
1,2-Dibromoethane	9.52		ug/L	10.00		95	70-130	3	25	
1,2-Dichlorobenzene	9.20		ug/L	10.00		92	70-130	2	25	
1,2-Dichloroethane	9.46		ug/L	10.00		95	70-130	2	25	
1,2-Dichloropropane	8.94		ug/L	10.00		89	70-130	0.2	25	
1,3,5-Trimethylbenzene	9.65		ug/L	10.00		96	70-130	1	25	



CERTIFICATE OF ANALYSIS

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Quality Control Data

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8260B Volatile Organic Compounds

Batch CG51742 - 5030B

1,3-Dichlorobenzene	9.15		ug/L	10.00		92	70-130	5	25	
1,3-Dichloropropane	9.99		ug/L	10.00		100	70-130	3	25	
1,4-Dichlorobenzene	9.36		ug/L	10.00		94	70-130	0.5	25	
1,4-Dioxane - Screen	182		ug/L	200.0		91	0-332	4	200	
1-Chlorohexane	8.02		ug/L	10.00		80	70-130	1	25	
2,2-Dichloropropane	10.2		ug/L	10.00		102	70-130	1	25	
2-Butanone	48.3		ug/L	50.00		97	70-130	2	25	
2-Chlorotoluene	9.15		ug/L	10.00		92	70-130	1	25	
2-Hexanone	46.2		ug/L	50.00		92	70-130	5	25	
4-Chlorotoluene	9.19		ug/L	10.00		92	70-130	3	25	
4-Isopropyltoluene	9.12		ug/L	10.00		91	70-130	3	25	
4-Methyl-2-Pentanone	45.7		ug/L	50.00		91	70-130	2	25	
Acetone	51.3		ug/L	50.00		103	70-130	6	25	
Benzene	9.16		ug/L	10.00		92	70-130	0.9	25	
Bromobenzene	9.16		ug/L	10.00		92	70-130	1	25	
Bromochloromethane	9.91		ug/L	10.00		99	70-130	1	25	
Bromodichloromethane	9.54		ug/L	10.00		95	70-130	0.9	25	
Bromoform	12.1		ug/L	10.00		121	70-130	1	25	
Bromomethane	10.4		ug/L	10.00		104	70-130	1	25	
Carbon Disulfide	8.98		ug/L	10.00		90	70-130	0.7	25	
Carbon Tetrachloride	11.6		ug/L	10.00		116	70-130	0.3	25	
Chlorobenzene	9.33		ug/L	10.00		93	70-130	2	25	
Chloroethane	8.68		ug/L	10.00		87	70-130	2	25	
Chloroform	9.12		ug/L	10.00		91	70-130	0.9	25	
Chloromethane	9.22		ug/L	10.00		92	70-130	6	25	
cis-1,2-Dichloroethene	9.28		ug/L	10.00		93	70-130	2	25	
cis-1,3-Dichloropropene	9.66		ug/L	10.00		97	70-130	0.3	25	
Dibromochloromethane	11.2		ug/L	10.00		112	70-130	3	25	
Dibromomethane	9.70		ug/L	10.00		97	70-130	0.9	25	
Dichlorodifluoromethane	7.64		ug/L	10.00		76	70-130	3	25	
Diethyl Ether	9.29		ug/L	10.00		93	70-130	2	25	
Di-isopropyl ether	8.34		ug/L	10.00		83	70-130	0.7	25	
Ethyl tertiary-butyl ether	8.37		ug/L	10.00		84	70-130	0.2	25	
Ethylbenzene	9.07		ug/L	10.00		91	70-130	2	25	
Hexachlorobutadiene	10.1		ug/L	10.00		101	70-130	5	25	
Hexachloroethane	13.0		ug/L	10.00		130	70-130	2	25	
Isopropylbenzene	8.81		ug/L	10.00		88	70-130	1	25	
Methyl tert-Butyl Ether	8.60		ug/L	10.00		86	70-130	0.6	25	
Methylene Chloride	9.40		ug/L	10.00		94	70-130	0.2	25	
Naphthalene	9.12		ug/L	10.00		91	70-130	8	25	
n-Butylbenzene	8.43		ug/L	10.00		84	70-130	6	25	
n-Propylbenzene	8.95		ug/L	10.00		90	70-130	2	25	
sec-Butylbenzene	9.20		ug/L	10.00		92	70-130	2	25	
Styrene	8.81		ug/L	10.00		88	70-130	4	25	
tert-Butylbenzene	8.99		ug/L	10.00		90	70-130	0.3	25	



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8260B Volatile Organic Compounds

Batch CG51742 - 5030B

Tertiary-amyl methyl ether	7.83		ug/L	10.00		78	70-130	0.4	25	
Tetrachloroethene	7.92		ug/L	10.00		79	70-130	5	25	
Tetrahydrofuran	9.17		ug/L	10.00		92	70-130	2	25	
Toluene	9.34		ug/L	10.00		93	70-130	3	25	
trans-1,2-Dichloroethene	8.45		ug/L	10.00		84	70-130	0.1	25	
trans-1,3-Dichloropropene	8.93		ug/L	10.00		89	70-130	0.3	25	
Trichloroethene	8.85		ug/L	10.00		88	70-130	2	25	
Trichlorofluoromethane	8.17		ug/L	10.00		82	70-130	0.1	25	
Trihalomethanes (Total)	42.0		mg/L							
Vinyl Acetate	12.4		ug/L	10.00		124	70-130	0.4	25	
Vinyl Chloride	9.50		ug/L	10.00		95	70-130	3	25	
Xylene O	9.81		ug/L	10.00		98	70-130	2	25	
Xylene P,M	19.3		ug/L	20.00		96	70-130	2	25	
Xylenes (Total)	29.1		mg/L							
Surrogate: 1,2-Dichloroethane-d4	0.0233		mg/L	0.02500		93	70-130			
Surrogate: 4-Bromofluorobenzene	0.0236		mg/L	0.02500		94	70-130			
Surrogate: Dibromofluoromethane	0.0260		mg/L	0.02500		104	70-130			
Surrogate: Toluene-d8	0.0232		mg/L	0.02500		93	70-130			



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Notes and Definitions

- U Analyte included in the analysis, but not detected
- MT Due to high target values, matrix spike compound(s) is masked (MT).
- M+ Matrix Spike recovery is above upper control limit (M+).
- M- Matrix Spike recovery is below lower control limit (M-).
- D Diluted.
- C+ Continuing Calibration recovery is above upper control limit (C+).
- B+ Blank Spike recovery is above upper control limit (B+).
- ND Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- MDL Method Detection Limit
- MRL Method Reporting Limit
- LOD Limit of Detection
- LOQ Limit of Quantitation
- DL Detection Limit
- I/V Initial Volume
- F/V Final Volume
- § Subcontracted analysis; see attached report
- 1 Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
- 2 Range result excludes concentrations of target analytes eluting in that range.
- 3 Range result excludes the concentration of the C9-C10 aromatic range.
- Avg Results reported as a mathematical average.
- NR No Recovery
- [CALC] Calculated Analyte
- SUB Subcontracted analysis; see attached report



CERTIFICATE OF ANALYSIS

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ESS Laboratory Work Order: 1507338

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Rhode Island Potable and Non Potable Water: LAI00179

<http://www.health.ri.gov/find/labs/analytical/ESS.pdf>

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750

http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutOfStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI00002

<http://www.maine.gov/dhhs/mecdc/environmental-health/water/dwp-services/labcert/documents/AllLabs.xls>

Massachusetts Potable and Non Potable Water: M-RI002

<http://public.dep.state.ma.us/Labcert/Labcert.aspx>

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424

<http://des.nh.gov/organization/divisions/water/dwgb/nhelap/index.htm>

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313

<http://www.wadsworth.org/labcert/elap/comm.html>

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006

http://datamine2.state.nj.us/DEP_OPRA/OpraMain/pi_main?mode=pi_by_site&sort_order=PI_NAMEA&Select+a+Site:=58715

United States Department of Agriculture Soil Permit: P330-12-00139

Pennsylvania: 68-01752

http://www.depweb.state.pa.us/portal/server.pt/community/labs/13780/laboratory_accreditation_program/590095

Sample and Cooler Receipt Checklist

Client: AMEC Earth and Environmental
Client Project ID: _____
Shipped/Delivered Via: Client

ESS Project ID: 15070338
Date Project Due: 7/22/15
Days For Project: 5 Day

Items to be checked upon receipt:

- 1. Air Bill Manifest Present? * No
- Air No.:
- 2. Were Custody Seals Present? No
- 3. Were Custody Seals Intact? N/A
- 4. Is Radiation count < 100 CPM? Yes
- 5. Is a cooler present? Yes
Cooler Temp: 1.6
Iced With: Ice
- 6. Was COC included with samples? Yes
- 7. Was COC signed and dated by client? Yes
- 8. Does the COC match the sample Yes
- 9. Is COC complete and correct? Yes
- 10. Are the samples properly preserved? Yes
- 11. Proper sample containers used? Yes
- 12. Any air bubbles in the VOA vials? No
- 13. Holding times exceeded? No
- 14. Sufficient sample volumes? Yes
- 15. Any Subcontracting needed? No
- 16. Are ESS labels on correct containers? Yes|No
- 17. Were samples received intact? Yes|No
- ESS Sample IDs: _____
- Sub Lab: _____
- Analysis: _____
- TAT: _____

18. Was there need to call project manager to discuss status? If yes, please explain.

REC 3 EXTRA VOA VIALS LABEL SITE ID MW-241 JL 7/15/15
Did not add to COC - Samples in hold fridge on 7/15/15
added MW-241 per client on 7/15/15

Who was called?: _____ By whom? _____

Sample Number	Properly Preserved	Container Type	# of Containers	Preservative
1	Yes	40 ml - VOA	3	HCL
2	Yes	40 ml - VOA	3	HCL
3	Yes	40 ml - VOA	3	HCL
4	Yes	40 ml - VOA	8	HCL
5	Yes	40 ml - VOA	3	HCL
6	Yes	40 ml - VOA	3	HCL
7	Yes	40 ml - VOA	2	HCL

Completed By: [Signature]

Date/Time: 7/15/15 1336

Reviewed By: [Signature]

Date/Time: 7/15/15 1350

8 Y 40ml-VOA 3 HCL

ESS Laboratory

Division of Thielsch Engineering, Inc.

185 Frances Avenue, Cranston RI 02910-2211
 Tel. (401)461-7181 Fax (401)461-4486
 www.esslaboratory.com

CHAIN OF CUSTODY

Turn Time S Standard Other

Regulatory State: MA (R) CT NH NJ NY ME Other

Is this project for any of the following: (please circle)

MA-MCP Navy USACE CT DEP Other

Project # 3652140032

Project Name Texton Gorham

Proj. Location Providence, RI

City, State Chelmsford, MA

Zip 01824

PO # CO12206859

email: Denise.Kins@amecaw.com

Sample ID

Matrix

Grab-G Composite-C

Collection Time

Date

ESS Lab ID

Pres Code

of Containers

Type of Container

Vol of Container

Analysis

Electronic Deliverables *Excel Access PDF

Reporting Limits - 5:22 PM

ESS Lab # 1507338

Container Type: P-Poly G-Glass AG Amber Glass S-Sterile V-VOA

Matrix: S-Soil SD-Solid D-Sludge WW-Wastewater GW-Groundwater SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filler

Preservation Code: 1-NP, 2-HCl, 3-H2SO4, 4-HNO3, 5-NaOH, 6-MeOH, 7-Asorbic Acid, 8-ZnAct, 9-

Sampled by: Mark Maggiora 339-927-3797

Comments: added MW-241 per client mtg 7/15/15

Relinquished by: (Signature, Date & Time)

Received by: (Signature, Date & Time)

Relinquished by: (Signature, Date & Time)

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Received by: (Signature, Date & Time)

Relinquished by: (Signature, Date & Time)

Received by: (Signature, Date & Time)

Please fax to the laboratory all changes to Chain of Custody

Report Method Blank & Laboratory Control Sample Results

collected in accordance with MADEP CAM VIIA

By circling MA-MCP, client acknowledges samples were

Page 47 of 9



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham - Groundwater

ESS Laboratory Work Order: 1507338

PROJECT NARRATIVE

8260B Volatile Organic Compounds

- CG51636-BS1 **Blank Spike recovery is above upper control limit (B+).**
Hexachloroethane (136% @ 70-130%)
- CG51636-MS1 **Due to high target values, matrix spike compound(s) is masked (MT).**
cis-1,2-Dichloroethene (-53% @ 70-130%), Trichloroethene (-1650% @ 70-130%)
- CG51636-MS1 **Matrix Spike recovery is below lower control limit (M-).**
Bromomethane (68% @ 70-130%)
- CG51636-MSD1 **Due to high target values, matrix spike compound(s) is masked (MT).**
cis-1,2-Dichloroethene (-41% @ 70-130%), Trichloroethene (-1590% @ 70-130%)
- CG51636-MSD1 **Matrix Spike recovery is above upper control limit (M+).**
Hexachloroethane (131% @ 70-130%)
- CG51742-BS1 **Matrix Spike recovery is above upper control limit (M+).**
Hexachloroethane (132% @ 70-130%)
- CYG0196-CCV1 **Continuing Calibration recovery is above upper control limit (C+).**
Bromoform (132% @ 70-130%)

No other observations noted.

End of Project Narrative.

DATA USABILITY LINKS

- [Definitions of Quality Control Parameters](#)
- [Semivolatile Organics Internal Standard Information](#)
- [Semivolatile Organics Surrogate Information](#)
- [Volatile Organics Internal Standard Information](#)
- [Volatile Organics Surrogate Information](#)
- [EPH and VPH Alkane Lists](#)



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham - Groundwater

ESS Laboratory Work Order: 1507338

CURRENT SW-846 METHODOLOGY VERSIONS

Analytical Methods

- 1010A - Flashpoint
- 6010C - ICP
- 6020A - ICP MS
- 7010 - Graphite Furnace
- 7196A - Hexavalent Chromium
- 7470A - Aqueous Mercury
- 7471B - Solid Mercury
- 8011 - EDB/DBCP/TCP
- 8015D - GRO/DRO
- 8081B - Pesticides
- 8082A - PCB
- 8100M - TPH
- 8151A - Herbicides
- 8260B - VOA
- 8270D - SVOA
- 8270D SIM - SVOA Low Level
- 9014 - Cyanide
- 9038 - Sulfate
- 9040C - Aqueous pH
- 9045D - Solid pH (Corrosivity)
- 9050A - Specific Conductance
- 9056A - Anions (IC)
- 9060A - TOC
- 9095B - Paint Filter
- MADEP 04-1.1 - EPH / VPH

Prep Methods

- 3005A - Aqueous ICP Digestion
- 3020A - Aqueous Graphite Furnace / ICP MS Digestion
- 3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
- 3060A - Solid Hexavalent Chromium Digestion
- 3510C - Separatory Funnel Extraction
- 3520C - Liquid / Liquid Extraction
- 3540C - Manual Soxhlet Extraction
- 3541 - Automated Soxhlet Extraction
- 3546 - Microwave Extraction
- 3580A - Waste Dilution
- 5030B - Aqueous Purge and Trap
- 5030C - Aqueous Purge and Trap
- 5035 - Solid Purge and Trap

SW846 Reactivity Methods 7.3.3.2 (Reactive Cyanide) and 7.3.4.1 (Reactive Sulfide) have been withdrawn by EPA. These methods are reported per client request and are not NELAP accredited.



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham - Groundwater
Client Sample ID: MW-235S
Date Sampled: 07/15/15 11:10
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1507338
ESS Laboratory Sample ID: 1507338-01
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1,1,2-Tetrachloroethane	ND (0.0010)		8260B		1	07/16/15 16:46	CYG0184	CG51636
1,1,1-Trichloroethane	ND (0.0010)		8260B		1	07/16/15 16:46	CYG0184	CG51636
1,1,2,2-Tetrachloroethane	ND (0.0005)		8260B		1	07/16/15 16:46	CYG0184	CG51636
1,1,2-Trichloroethane	ND (0.0010)		8260B		1	07/16/15 16:46	CYG0184	CG51636
1,1-Dichloroethane	ND (0.0010)		8260B		1	07/16/15 16:46	CYG0184	CG51636
1,1-Dichloroethene	ND (0.0010)		8260B		1	07/16/15 16:46	CYG0184	CG51636
1,1-Dichloropropene	ND (0.0020)		8260B		1	07/16/15 16:46	CYG0184	CG51636
1,2,3-Trichlorobenzene	ND (0.0010)		8260B		1	07/16/15 16:46	CYG0184	CG51636
1,2,3-Trichloropropane	ND (0.0010)		8260B		1	07/16/15 16:46	CYG0184	CG51636
1,2,4-Trichlorobenzene	ND (0.0010)		8260B		1	07/16/15 16:46	CYG0184	CG51636
1,2,4-Trimethylbenzene	ND (0.0010)		8260B		1	07/16/15 16:46	CYG0184	CG51636
1,2-Dibromo-3-Chloropropane	ND (0.0050)		8260B		1	07/16/15 16:46	CYG0184	CG51636
1,2-Dibromoethane	ND (0.0010)		8260B		1	07/16/15 16:46	CYG0184	CG51636
1,2-Dichlorobenzene	ND (0.0010)		8260B		1	07/16/15 16:46	CYG0184	CG51636
1,2-Dichloroethane	ND (0.0010)		8260B		1	07/16/15 16:46	CYG0184	CG51636
1,2-Dichloropropane	ND (0.0010)		8260B		1	07/16/15 16:46	CYG0184	CG51636
1,3,5-Trimethylbenzene	ND (0.0010)		8260B		1	07/16/15 16:46	CYG0184	CG51636
1,3-Dichlorobenzene	ND (0.0010)		8260B		1	07/16/15 16:46	CYG0184	CG51636
1,3-Dichloropropane	ND (0.0010)		8260B		1	07/16/15 16:46	CYG0184	CG51636
1,4-Dichlorobenzene	ND (0.0010)		8260B		1	07/16/15 16:46	CYG0184	CG51636
1,4-Dioxane - Screen	ND (0.500)		8260B		1	07/16/15 16:46	CYG0184	CG51636
1-Chlorohexane	ND (0.0010)		8260B		1	07/16/15 16:46	CYG0184	CG51636
2,2-Dichloropropane	ND (0.0010)		8260B		1	07/16/15 16:46	CYG0184	CG51636
2-Butanone	ND (0.0100)		8260B		1	07/16/15 16:46	CYG0184	CG51636
2-Chlorotoluene	ND (0.0010)		8260B		1	07/16/15 16:46	CYG0184	CG51636
2-Hexanone	ND (0.0100)		8260B		1	07/16/15 16:46	CYG0184	CG51636
4-Chlorotoluene	ND (0.0010)		8260B		1	07/16/15 16:46	CYG0184	CG51636
4-Isopropyltoluene	ND (0.0010)		8260B		1	07/16/15 16:46	CYG0184	CG51636
4-Methyl-2-Pentanone	ND (0.0250)		8260B		1	07/16/15 16:46	CYG0184	CG51636
Acetone	ND (0.0100)		8260B		1	07/16/15 16:46	CYG0184	CG51636
Benzene	ND (0.0010)		8260B		1	07/16/15 16:46	CYG0184	CG51636
Bromobenzene	ND (0.0020)		8260B		1	07/16/15 16:46	CYG0184	CG51636



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham - Groundwater
Client Sample ID: MW-235S
Date Sampled: 07/15/15 11:10
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1507338
ESS Laboratory Sample ID: 1507338-01
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Bromochloromethane	ND (0.0010)		8260B		1	07/16/15 16:46	CYG0184	CG51636
Bromodichloromethane	ND (0.0006)		8260B		1	07/16/15 16:46	CYG0184	CG51636
Bromoform	ND (0.0010)		8260B		1	07/16/15 16:46	CYG0184	CG51636
Bromomethane	ND (0.0020)		8260B		1	07/16/15 16:46	CYG0184	CG51636
Carbon Disulfide	ND (0.0010)		8260B		1	07/16/15 16:46	CYG0184	CG51636
Carbon Tetrachloride	ND (0.0010)		8260B		1	07/16/15 16:46	CYG0184	CG51636
Chlorobenzene	ND (0.0010)		8260B		1	07/16/15 16:46	CYG0184	CG51636
Chloroethane	ND (0.0020)		8260B		1	07/16/15 16:46	CYG0184	CG51636
Chloroform	ND (0.0010)		8260B		1	07/16/15 16:46	CYG0184	CG51636
Chloromethane	ND (0.0020)		8260B		1	07/16/15 16:46	CYG0184	CG51636
cis-1,2-Dichloroethene	0.0120 (0.0010)		8260B		1	07/16/15 16:46	CYG0184	CG51636
cis-1,3-Dichloropropene	ND (0.0004)		8260B		1	07/16/15 16:46	CYG0184	CG51636
Dibromochloromethane	ND (0.0010)		8260B		1	07/16/15 16:46	CYG0184	CG51636
Dibromomethane	ND (0.0010)		8260B		1	07/16/15 16:46	CYG0184	CG51636
Dichlorodifluoromethane	ND (0.0020)		8260B		1	07/16/15 16:46	CYG0184	CG51636
Diethyl Ether	ND (0.0010)		8260B		1	07/16/15 16:46	CYG0184	CG51636
Di-isopropyl ether	ND (0.0010)		8260B		1	07/16/15 16:46	CYG0184	CG51636
Ethyl tertiary-butyl ether	ND (0.0010)		8260B		1	07/16/15 16:46	CYG0184	CG51636
Ethylbenzene	ND (0.0010)		8260B		1	07/16/15 16:46	CYG0184	CG51636
Hexachlorobutadiene	ND (0.0006)		8260B		1	07/16/15 16:46	CYG0184	CG51636
Hexachloroethane	ND (0.0010)		8260B		1	07/16/15 16:46	CYG0184	CG51636
Isopropylbenzene	ND (0.0010)		8260B		1	07/16/15 16:46	CYG0184	CG51636
Methyl tert-Butyl Ether	ND (0.0010)		8260B		1	07/16/15 16:46	CYG0184	CG51636
Methylene Chloride	ND (0.0020)		8260B		1	07/16/15 16:46	CYG0184	CG51636
Naphthalene	ND (0.0010)		8260B		1	07/16/15 16:46	CYG0184	CG51636
n-Butylbenzene	ND (0.0010)		8260B		1	07/16/15 16:46	CYG0184	CG51636
n-Propylbenzene	ND (0.0010)		8260B		1	07/16/15 16:46	CYG0184	CG51636
sec-Butylbenzene	ND (0.0010)		8260B		1	07/16/15 16:46	CYG0184	CG51636
Styrene	ND (0.0010)		8260B		1	07/16/15 16:46	CYG0184	CG51636
tert-Butylbenzene	ND (0.0010)		8260B		1	07/16/15 16:46	CYG0184	CG51636
Tertiary-amyl methyl ether	ND (0.0010)		8260B		1	07/16/15 16:46	CYG0184	CG51636
Tetrachloroethene	0.0036 (0.0010)		8260B		1	07/16/15 16:46	CYG0184	CG51636



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham - Groundwater
Client Sample ID: MW-235S
Date Sampled: 07/15/15 11:10
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1507338
ESS Laboratory Sample ID: 1507338-01
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Tetrahydrofuran	ND (0.0050)		8260B		1	07/16/15 16:46	CYG0184	CG51636
Toluene	ND (0.0010)		8260B		1	07/16/15 16:46	CYG0184	CG51636
trans-1,2-Dichloroethene	ND (0.0010)		8260B		1	07/16/15 16:46	CYG0184	CG51636
trans-1,3-Dichloropropene	ND (0.0004)		8260B		1	07/16/15 16:46	CYG0184	CG51636
Trichloroethene	0.0169 (0.0010)		8260B		1	07/16/15 16:46	CYG0184	CG51636
Trichlorofluoromethane	ND (0.0010)		8260B		1	07/16/15 16:46	CYG0184	CG51636
Vinyl Acetate	ND (0.0050)		8260B		1	07/16/15 16:46	CYG0184	CG51636
Vinyl Chloride	ND (0.0010)		8260B		1	07/16/15 16:46	CYG0184	CG51636
Xylene O	ND (0.0010)		8260B		1	07/16/15 16:46	CYG0184	CG51636
Xylene P,M	ND (0.0020)		8260B		1	07/16/15 16:46	CYG0184	CG51636
Xylenes (Total)	ND (0.0020)		8260B		1	07/16/15 16:46		[CALC]
Trihalomethanes (Total)	ND (0.0010)		8260B			07/16/15 16:46		[CALC]

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>81 %</i>		<i>70-130</i>
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>78 %</i>		<i>70-130</i>
<i>Surrogate: Dibromofluoromethane</i>	<i>91 %</i>		<i>70-130</i>
<i>Surrogate: Toluene-d8</i>	<i>78 %</i>		<i>70-130</i>



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham - Groundwater
Client Sample ID: MW-236S
Date Sampled: 07/15/15 10:45
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1507338
ESS Laboratory Sample ID: 1507338-02
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1,1,2-Tetrachloroethane	ND (0.0010)		8260B		1	07/16/15 17:11	CYG0184	CG51636
1,1,1-Trichloroethane	ND (0.0010)		8260B		1	07/16/15 17:11	CYG0184	CG51636
1,1,2,2-Tetrachloroethane	ND (0.0005)		8260B		1	07/16/15 17:11	CYG0184	CG51636
1,1,2-Trichloroethane	0.0055 (0.0010)		8260B		1	07/16/15 17:11	CYG0184	CG51636
1,1-Dichloroethane	ND (0.0010)		8260B		1	07/16/15 17:11	CYG0184	CG51636
1,1-Dichloroethene	0.0035 (0.0010)		8260B		1	07/16/15 17:11	CYG0184	CG51636
1,1-Dichloropropene	ND (0.0020)		8260B		1	07/16/15 17:11	CYG0184	CG51636
1,2,3-Trichlorobenzene	ND (0.0010)		8260B		1	07/16/15 17:11	CYG0184	CG51636
1,2,3-Trichloropropane	ND (0.0010)		8260B		1	07/16/15 17:11	CYG0184	CG51636
1,2,4-Trichlorobenzene	ND (0.0010)		8260B		1	07/16/15 17:11	CYG0184	CG51636
1,2,4-Trimethylbenzene	ND (0.0010)		8260B		1	07/16/15 17:11	CYG0184	CG51636
1,2-Dibromo-3-Chloropropane	ND (0.0050)		8260B		1	07/16/15 17:11	CYG0184	CG51636
1,2-Dibromoethane	ND (0.0010)		8260B		1	07/16/15 17:11	CYG0184	CG51636
1,2-Dichlorobenzene	ND (0.0010)		8260B		1	07/16/15 17:11	CYG0184	CG51636
1,2-Dichloroethane	0.0031 (0.0010)		8260B		1	07/16/15 17:11	CYG0184	CG51636
1,2-Dichloropropane	ND (0.0010)		8260B		1	07/16/15 17:11	CYG0184	CG51636
1,3,5-Trimethylbenzene	ND (0.0010)		8260B		1	07/16/15 17:11	CYG0184	CG51636
1,3-Dichlorobenzene	ND (0.0010)		8260B		1	07/16/15 17:11	CYG0184	CG51636
1,3-Dichloropropane	ND (0.0010)		8260B		1	07/16/15 17:11	CYG0184	CG51636
1,4-Dichlorobenzene	ND (0.0010)		8260B		1	07/16/15 17:11	CYG0184	CG51636
1,4-Dioxane - Screen	ND (0.500)		8260B		1	07/16/15 17:11	CYG0184	CG51636
1-Chlorohexane	ND (0.0010)		8260B		1	07/16/15 17:11	CYG0184	CG51636
2,2-Dichloropropane	ND (0.0010)		8260B		1	07/16/15 17:11	CYG0184	CG51636
2-Butanone	ND (0.0100)		8260B		1	07/16/15 17:11	CYG0184	CG51636
2-Chlorotoluene	ND (0.0010)		8260B		1	07/16/15 17:11	CYG0184	CG51636
2-Hexanone	ND (0.0100)		8260B		1	07/16/15 17:11	CYG0184	CG51636
4-Chlorotoluene	ND (0.0010)		8260B		1	07/16/15 17:11	CYG0184	CG51636
4-Isopropyltoluene	ND (0.0010)		8260B		1	07/16/15 17:11	CYG0184	CG51636
4-Methyl-2-Pentanone	ND (0.0250)		8260B		1	07/16/15 17:11	CYG0184	CG51636
Acetone	ND (0.0100)		8260B		1	07/16/15 17:11	CYG0184	CG51636
Benzene	ND (0.0010)		8260B		1	07/16/15 17:11	CYG0184	CG51636
Bromobenzene	ND (0.0020)		8260B		1	07/16/15 17:11	CYG0184	CG51636



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham - Groundwater
Client Sample ID: MW-236S
Date Sampled: 07/15/15 10:45
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1507338
ESS Laboratory Sample ID: 1507338-02
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Bromochloromethane	ND (0.0010)		8260B		1	07/16/15 17:11	CYG0184	CG51636
Bromodichloromethane	ND (0.0006)		8260B		1	07/16/15 17:11	CYG0184	CG51636
Bromoform	ND (0.0010)		8260B		1	07/16/15 17:11	CYG0184	CG51636
Bromomethane	ND (0.0020)		8260B		1	07/16/15 17:11	CYG0184	CG51636
Carbon Disulfide	0.0064 (0.0010)		8260B		1	07/16/15 17:11	CYG0184	CG51636
Carbon Tetrachloride	ND (0.0010)		8260B		1	07/16/15 17:11	CYG0184	CG51636
Chlorobenzene	ND (0.0010)		8260B		1	07/16/15 17:11	CYG0184	CG51636
Chloroethane	ND (0.0020)		8260B		1	07/16/15 17:11	CYG0184	CG51636
Chloroform	ND (0.0010)		8260B		1	07/16/15 17:11	CYG0184	CG51636
Chloromethane	ND (0.0020)		8260B		1	07/16/15 17:11	CYG0184	CG51636
cis-1,2-Dichloroethene	0.0977 (0.0010)		8260B		1	07/16/15 17:11	CYG0184	CG51636
cis-1,3-Dichloropropene	ND (0.0004)		8260B		1	07/16/15 17:11	CYG0184	CG51636
Dibromochloromethane	ND (0.0010)		8260B		1	07/16/15 17:11	CYG0184	CG51636
Dibromomethane	ND (0.0010)		8260B		1	07/16/15 17:11	CYG0184	CG51636
Dichlorodifluoromethane	ND (0.0020)		8260B		1	07/16/15 17:11	CYG0184	CG51636
Diethyl Ether	ND (0.0010)		8260B		1	07/16/15 17:11	CYG0184	CG51636
Di-isopropyl ether	ND (0.0010)		8260B		1	07/16/15 17:11	CYG0184	CG51636
Ethyl tertiary-butyl ether	ND (0.0010)		8260B		1	07/16/15 17:11	CYG0184	CG51636
Ethylbenzene	ND (0.0010)		8260B		1	07/16/15 17:11	CYG0184	CG51636
Hexachlorobutadiene	ND (0.0006)		8260B		1	07/16/15 17:11	CYG0184	CG51636
Hexachloroethane	ND (0.0010)		8260B		1	07/16/15 17:11	CYG0184	CG51636
Isopropylbenzene	ND (0.0010)		8260B		1	07/16/15 17:11	CYG0184	CG51636
Methyl tert-Butyl Ether	ND (0.0010)		8260B		1	07/16/15 17:11	CYG0184	CG51636
Methylene Chloride	ND (0.0020)		8260B		1	07/16/15 17:11	CYG0184	CG51636
Naphthalene	ND (0.0010)		8260B		1	07/16/15 17:11	CYG0184	CG51636
n-Butylbenzene	ND (0.0010)		8260B		1	07/16/15 17:11	CYG0184	CG51636
n-Propylbenzene	ND (0.0010)		8260B		1	07/16/15 17:11	CYG0184	CG51636
sec-Butylbenzene	ND (0.0010)		8260B		1	07/16/15 17:11	CYG0184	CG51636
Styrene	ND (0.0010)		8260B		1	07/16/15 17:11	CYG0184	CG51636
tert-Butylbenzene	ND (0.0010)		8260B		1	07/16/15 17:11	CYG0184	CG51636
Tertiary-amyl methyl ether	ND (0.0010)		8260B		1	07/16/15 17:11	CYG0184	CG51636
Tetrachloroethene	ND (0.0010)		8260B		1	07/16/15 17:11	CYG0184	CG51636



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
 Client Project ID: Textron Gorham - Groundwater
 Client Sample ID: MW-236S
 Date Sampled: 07/15/15 10:45
 Percent Solids: N/A
 Initial Volume: 5
 Final Volume: 5
 Extraction Method: 5030B

ESS Laboratory Work Order: 1507338
 ESS Laboratory Sample ID: 1507338-02
 Sample Matrix: Ground Water
 Units: mg/L
 Analyst: MD

8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Tetrahydrofuran	ND (0.0050)		8260B		1	07/16/15 17:11	CYG0184	CG51636
Toluene	ND (0.0010)		8260B		1	07/16/15 17:11	CYG0184	CG51636
trans-1,2-Dichloroethene	ND (0.0010)		8260B		1	07/16/15 17:11	CYG0184	CG51636
trans-1,3-Dichloropropene	ND (0.0004)		8260B		1	07/16/15 17:11	CYG0184	CG51636
Trichloroethene	0.191 (0.0100)		8260B		10	07/17/15 15:42	CYG0184	CG51636
Trichlorofluoromethane	ND (0.0010)		8260B		1	07/16/15 17:11	CYG0184	CG51636
Vinyl Acetate	ND (0.0050)		8260B		1	07/16/15 17:11	CYG0184	CG51636
Vinyl Chloride	0.0018 (0.0010)		8260B		1	07/16/15 17:11	CYG0184	CG51636
Xylene O	ND (0.0010)		8260B		1	07/16/15 17:11	CYG0184	CG51636
Xylene P,M	ND (0.0020)		8260B		1	07/16/15 17:11	CYG0184	CG51636
Xylenes (Total)	ND (0.0020)		8260B		1	07/16/15 17:11		[CALC]
Trihalomethanes (Total)	ND (0.0010)		8260B			07/16/15 17:11		[CALC]

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>	83 %		70-130
<i>Surrogate: 4-Bromofluorobenzene</i>	77 %		70-130
<i>Surrogate: Dibromofluoromethane</i>	93 %		70-130
<i>Surrogate: Toluene-d8</i>	79 %		70-130



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham - Groundwater
Client Sample ID: MW-237S
Date Sampled: 07/15/15 09:45
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1507338
ESS Laboratory Sample ID: 1507338-03
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1,1,2-Tetrachloroethane	ND (0.0010)		8260B		1	07/16/15 17:37	CYG0184	CG51636
1,1,1-Trichloroethane	ND (0.0010)		8260B		1	07/16/15 17:37	CYG0184	CG51636
1,1,2,2-Tetrachloroethane	ND (0.0005)		8260B		1	07/16/15 17:37	CYG0184	CG51636
1,1,2-Trichloroethane	ND (0.0010)		8260B		1	07/16/15 17:37	CYG0184	CG51636
1,1-Dichloroethane	ND (0.0010)		8260B		1	07/16/15 17:37	CYG0184	CG51636
1,1-Dichloroethene	0.0020 (0.0010)		8260B		1	07/16/15 17:37	CYG0184	CG51636
1,1-Dichloropropene	ND (0.0020)		8260B		1	07/16/15 17:37	CYG0184	CG51636
1,2,3-Trichlorobenzene	ND (0.0010)		8260B		1	07/16/15 17:37	CYG0184	CG51636
1,2,3-Trichloropropane	ND (0.0010)		8260B		1	07/16/15 17:37	CYG0184	CG51636
1,2,4-Trichlorobenzene	ND (0.0010)		8260B		1	07/16/15 17:37	CYG0184	CG51636
1,2,4-Trimethylbenzene	ND (0.0010)		8260B		1	07/16/15 17:37	CYG0184	CG51636
1,2-Dibromo-3-Chloropropane	ND (0.0050)		8260B		1	07/16/15 17:37	CYG0184	CG51636
1,2-Dibromoethane	ND (0.0010)		8260B		1	07/16/15 17:37	CYG0184	CG51636
1,2-Dichlorobenzene	ND (0.0010)		8260B		1	07/16/15 17:37	CYG0184	CG51636
1,2-Dichloroethane	0.0020 (0.0010)		8260B		1	07/16/15 17:37	CYG0184	CG51636
1,2-Dichloropropane	ND (0.0010)		8260B		1	07/16/15 17:37	CYG0184	CG51636
1,3,5-Trimethylbenzene	ND (0.0010)		8260B		1	07/16/15 17:37	CYG0184	CG51636
1,3-Dichlorobenzene	ND (0.0010)		8260B		1	07/16/15 17:37	CYG0184	CG51636
1,3-Dichloropropane	ND (0.0010)		8260B		1	07/16/15 17:37	CYG0184	CG51636
1,4-Dichlorobenzene	ND (0.0010)		8260B		1	07/16/15 17:37	CYG0184	CG51636
1,4-Dioxane - Screen	ND (0.500)		8260B		1	07/16/15 17:37	CYG0184	CG51636
1-Chlorohexane	ND (0.0010)		8260B		1	07/16/15 17:37	CYG0184	CG51636
2,2-Dichloropropane	ND (0.0010)		8260B		1	07/16/15 17:37	CYG0184	CG51636
2-Butanone	ND (0.0100)		8260B		1	07/16/15 17:37	CYG0184	CG51636
2-Chlorotoluene	ND (0.0010)		8260B		1	07/16/15 17:37	CYG0184	CG51636
2-Hexanone	ND (0.0100)		8260B		1	07/16/15 17:37	CYG0184	CG51636
4-Chlorotoluene	ND (0.0010)		8260B		1	07/16/15 17:37	CYG0184	CG51636
4-Isopropyltoluene	ND (0.0010)		8260B		1	07/16/15 17:37	CYG0184	CG51636
4-Methyl-2-Pentanone	ND (0.0250)		8260B		1	07/16/15 17:37	CYG0184	CG51636
Acetone	ND (0.0100)		8260B		1	07/16/15 17:37	CYG0184	CG51636
Benzene	ND (0.0010)		8260B		1	07/16/15 17:37	CYG0184	CG51636
Bromobenzene	ND (0.0020)		8260B		1	07/16/15 17:37	CYG0184	CG51636



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham - Groundwater
Client Sample ID: MW-237S
Date Sampled: 07/15/15 09:45
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1507338
ESS Laboratory Sample ID: 1507338-03
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Bromochloromethane	ND (0.0010)		8260B		1	07/16/15 17:37	CYG0184	CG51636
Bromodichloromethane	ND (0.0006)		8260B		1	07/16/15 17:37	CYG0184	CG51636
Bromoform	ND (0.0010)		8260B		1	07/16/15 17:37	CYG0184	CG51636
Bromomethane	ND (0.0020)		8260B		1	07/16/15 17:37	CYG0184	CG51636
Carbon Disulfide	0.0038 (0.0010)		8260B		1	07/16/15 17:37	CYG0184	CG51636
Carbon Tetrachloride	ND (0.0010)		8260B		1	07/16/15 17:37	CYG0184	CG51636
Chlorobenzene	ND (0.0010)		8260B		1	07/16/15 17:37	CYG0184	CG51636
Chloroethane	ND (0.0020)		8260B		1	07/16/15 17:37	CYG0184	CG51636
Chloroform	ND (0.0010)		8260B		1	07/16/15 17:37	CYG0184	CG51636
Chloromethane	ND (0.0020)		8260B		1	07/16/15 17:37	CYG0184	CG51636
cis-1,2-Dichloroethene	0.0912 (0.0010)		8260B		1	07/16/15 17:37	CYG0184	CG51636
cis-1,3-Dichloropropene	ND (0.0004)		8260B		1	07/16/15 17:37	CYG0184	CG51636
Dibromochloromethane	ND (0.0010)		8260B		1	07/16/15 17:37	CYG0184	CG51636
Dibromomethane	ND (0.0010)		8260B		1	07/16/15 17:37	CYG0184	CG51636
Dichlorodifluoromethane	ND (0.0020)		8260B		1	07/16/15 17:37	CYG0184	CG51636
Diethyl Ether	ND (0.0010)		8260B		1	07/16/15 17:37	CYG0184	CG51636
Di-isopropyl ether	ND (0.0010)		8260B		1	07/16/15 17:37	CYG0184	CG51636
Ethyl tertiary-butyl ether	ND (0.0010)		8260B		1	07/16/15 17:37	CYG0184	CG51636
Ethylbenzene	ND (0.0010)		8260B		1	07/16/15 17:37	CYG0184	CG51636
Hexachlorobutadiene	ND (0.0006)		8260B		1	07/16/15 17:37	CYG0184	CG51636
Hexachloroethane	ND (0.0010)		8260B		1	07/16/15 17:37	CYG0184	CG51636
Isopropylbenzene	ND (0.0010)		8260B		1	07/16/15 17:37	CYG0184	CG51636
Methyl tert-Butyl Ether	ND (0.0010)		8260B		1	07/16/15 17:37	CYG0184	CG51636
Methylene Chloride	ND (0.0020)		8260B		1	07/16/15 17:37	CYG0184	CG51636
Naphthalene	ND (0.0010)		8260B		1	07/16/15 17:37	CYG0184	CG51636
n-Butylbenzene	ND (0.0010)		8260B		1	07/16/15 17:37	CYG0184	CG51636
n-Propylbenzene	ND (0.0010)		8260B		1	07/16/15 17:37	CYG0184	CG51636
sec-Butylbenzene	ND (0.0010)		8260B		1	07/16/15 17:37	CYG0184	CG51636
Styrene	ND (0.0010)		8260B		1	07/16/15 17:37	CYG0184	CG51636
tert-Butylbenzene	ND (0.0010)		8260B		1	07/16/15 17:37	CYG0184	CG51636
Tertiary-amyl methyl ether	ND (0.0010)		8260B		1	07/16/15 17:37	CYG0184	CG51636
Tetrachloroethene	0.0212 (0.0010)		8260B		1	07/16/15 17:37	CYG0184	CG51636



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham - Groundwater
Client Sample ID: MW-237S
Date Sampled: 07/15/15 09:45
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1507338
ESS Laboratory Sample ID: 1507338-03
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Tetrahydrofuran	ND (0.0050)		8260B		1	07/16/15 17:37	CYG0184	CG51636
Toluene	ND (0.0010)		8260B		1	07/16/15 17:37	CYG0184	CG51636
trans-1,2-Dichloroethene	0.0028 (0.0010)		8260B		1	07/16/15 17:37	CYG0184	CG51636
trans-1,3-Dichloropropene	ND (0.0004)		8260B		1	07/16/15 17:37	CYG0184	CG51636
Trichloroethene	0.118 (0.0100)		8260B		10	07/17/15 16:08	CYG0184	CG51636
Trichlorofluoromethane	ND (0.0010)		8260B		1	07/16/15 17:37	CYG0184	CG51636
Vinyl Acetate	ND (0.0050)		8260B		1	07/16/15 17:37	CYG0184	CG51636
Vinyl Chloride	ND (0.0010)		8260B		1	07/16/15 17:37	CYG0184	CG51636
Xylene O	ND (0.0010)		8260B		1	07/16/15 17:37	CYG0184	CG51636
Xylene P,M	ND (0.0020)		8260B		1	07/16/15 17:37	CYG0184	CG51636
Xylenes (Total)	ND (0.0020)		8260B		1	07/16/15 17:37		[CALC]
Trihalomethanes (Total)	ND (0.0010)		8260B			07/16/15 17:37		[CALC]

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>	82 %		70-130
<i>Surrogate: 4-Bromofluorobenzene</i>	78 %		70-130
<i>Surrogate: Dibromofluoromethane</i>	93 %		70-130
<i>Surrogate: Toluene-d8</i>	77 %		70-130



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham - Groundwater
Client Sample ID: MW-D
Date Sampled: 07/15/15 10:05
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1507338
ESS Laboratory Sample ID: 1507338-04
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1,1,2-Tetrachloroethane	ND (0.0010)		8260B		1	07/16/15 18:02	CYG0184	CG51636
1,1,1-Trichloroethane	ND (0.0010)		8260B		1	07/16/15 18:02	CYG0184	CG51636
1,1,2,2-Tetrachloroethane	ND (0.0005)		8260B		1	07/16/15 18:02	CYG0184	CG51636
1,1,2-Trichloroethane	ND (0.0010)		8260B		1	07/16/15 18:02	CYG0184	CG51636
1,1-Dichloroethane	ND (0.0010)		8260B		1	07/16/15 18:02	CYG0184	CG51636
1,1-Dichloroethene	0.0026 (0.0010)		8260B		1	07/16/15 18:02	CYG0184	CG51636
1,1-Dichloropropene	ND (0.0020)		8260B		1	07/16/15 18:02	CYG0184	CG51636
1,2,3-Trichlorobenzene	ND (0.0010)		8260B		1	07/16/15 18:02	CYG0184	CG51636
1,2,3-Trichloropropane	ND (0.0010)		8260B		1	07/16/15 18:02	CYG0184	CG51636
1,2,4-Trichlorobenzene	ND (0.0010)		8260B		1	07/16/15 18:02	CYG0184	CG51636
1,2,4-Trimethylbenzene	ND (0.0010)		8260B		1	07/16/15 18:02	CYG0184	CG51636
1,2-Dibromo-3-Chloropropane	ND (0.0050)		8260B		1	07/16/15 18:02	CYG0184	CG51636
1,2-Dibromoethane	ND (0.0010)		8260B		1	07/16/15 18:02	CYG0184	CG51636
1,2-Dichlorobenzene	ND (0.0010)		8260B		1	07/16/15 18:02	CYG0184	CG51636
1,2-Dichloroethane	ND (0.0010)		8260B		1	07/16/15 18:02	CYG0184	CG51636
1,2-Dichloropropane	ND (0.0010)		8260B		1	07/16/15 18:02	CYG0184	CG51636
1,3,5-Trimethylbenzene	ND (0.0010)		8260B		1	07/16/15 18:02	CYG0184	CG51636
1,3-Dichlorobenzene	ND (0.0010)		8260B		1	07/16/15 18:02	CYG0184	CG51636
1,3-Dichloropropane	ND (0.0010)		8260B		1	07/16/15 18:02	CYG0184	CG51636
1,4-Dichlorobenzene	ND (0.0010)		8260B		1	07/16/15 18:02	CYG0184	CG51636
1,4-Dioxane - Screen	ND (0.500)		8260B		1	07/16/15 18:02	CYG0184	CG51636
1-Chlorohexane	ND (0.0010)		8260B		1	07/16/15 18:02	CYG0184	CG51636
2,2-Dichloropropane	ND (0.0010)		8260B		1	07/16/15 18:02	CYG0184	CG51636
2-Butanone	ND (0.0100)		8260B		1	07/16/15 18:02	CYG0184	CG51636
2-Chlorotoluene	ND (0.0010)		8260B		1	07/16/15 18:02	CYG0184	CG51636
2-Hexanone	ND (0.0100)		8260B		1	07/16/15 18:02	CYG0184	CG51636
4-Chlorotoluene	ND (0.0010)		8260B		1	07/16/15 18:02	CYG0184	CG51636
4-Isopropyltoluene	ND (0.0010)		8260B		1	07/16/15 18:02	CYG0184	CG51636
4-Methyl-2-Pentanone	ND (0.0250)		8260B		1	07/16/15 18:02	CYG0184	CG51636
Acetone	ND (0.0100)		8260B		1	07/16/15 18:02	CYG0184	CG51636
Benzene	ND (0.0010)		8260B		1	07/16/15 18:02	CYG0184	CG51636
Bromobenzene	ND (0.0020)		8260B		1	07/16/15 18:02	CYG0184	CG51636



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham - Groundwater
Client Sample ID: MW-D
Date Sampled: 07/15/15 10:05
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1507338
ESS Laboratory Sample ID: 1507338-04
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Bromochloromethane	ND (0.0010)		8260B		1	07/16/15 18:02	CYG0184	CG51636
Bromodichloromethane	ND (0.0006)		8260B		1	07/16/15 18:02	CYG0184	CG51636
Bromoform	ND (0.0010)		8260B		1	07/16/15 18:02	CYG0184	CG51636
Bromomethane	ND (0.0020)		8260B		1	07/16/15 18:02	CYG0184	CG51636
Carbon Disulfide	ND (0.0010)		8260B		1	07/16/15 18:02	CYG0184	CG51636
Carbon Tetrachloride	ND (0.0010)		8260B		1	07/16/15 18:02	CYG0184	CG51636
Chlorobenzene	ND (0.0010)		8260B		1	07/16/15 18:02	CYG0184	CG51636
Chloroethane	ND (0.0020)		8260B		1	07/16/15 18:02	CYG0184	CG51636
Chloroform	ND (0.0010)		8260B		1	07/16/15 18:02	CYG0184	CG51636
Chloromethane	ND (0.0020)		8260B		1	07/16/15 18:02	CYG0184	CG51636
cis-1,2-Dichloroethene	0.0506 (0.0010)		8260B		1	07/16/15 18:02	CYG0184	CG51636
cis-1,3-Dichloropropene	ND (0.0004)		8260B		1	07/16/15 18:02	CYG0184	CG51636
Dibromochloromethane	ND (0.0010)		8260B		1	07/16/15 18:02	CYG0184	CG51636
Dibromomethane	ND (0.0010)		8260B		1	07/16/15 18:02	CYG0184	CG51636
Dichlorodifluoromethane	ND (0.0020)		8260B		1	07/16/15 18:02	CYG0184	CG51636
Diethyl Ether	ND (0.0010)		8260B		1	07/16/15 18:02	CYG0184	CG51636
Di-isopropyl ether	ND (0.0010)		8260B		1	07/16/15 18:02	CYG0184	CG51636
Ethyl tertiary-butyl ether	ND (0.0010)		8260B		1	07/16/15 18:02	CYG0184	CG51636
Ethylbenzene	ND (0.0010)		8260B		1	07/16/15 18:02	CYG0184	CG51636
Hexachlorobutadiene	ND (0.0006)		8260B		1	07/16/15 18:02	CYG0184	CG51636
Hexachloroethane	ND (0.0010)		8260B		1	07/16/15 18:02	CYG0184	CG51636
Isopropylbenzene	ND (0.0010)		8260B		1	07/16/15 18:02	CYG0184	CG51636
Methyl tert-Butyl Ether	ND (0.0010)		8260B		1	07/16/15 18:02	CYG0184	CG51636
Methylene Chloride	ND (0.0020)		8260B		1	07/16/15 18:02	CYG0184	CG51636
Naphthalene	ND (0.0010)		8260B		1	07/16/15 18:02	CYG0184	CG51636
n-Butylbenzene	ND (0.0010)		8260B		1	07/16/15 18:02	CYG0184	CG51636
n-Propylbenzene	ND (0.0010)		8260B		1	07/16/15 18:02	CYG0184	CG51636
sec-Butylbenzene	ND (0.0010)		8260B		1	07/16/15 18:02	CYG0184	CG51636
Styrene	ND (0.0010)		8260B		1	07/16/15 18:02	CYG0184	CG51636
tert-Butylbenzene	ND (0.0010)		8260B		1	07/16/15 18:02	CYG0184	CG51636
Tertiary-amyl methyl ether	ND (0.0010)		8260B		1	07/16/15 18:02	CYG0184	CG51636
Tetrachloroethene	0.0017 (0.0010)		8260B		1	07/16/15 18:02	CYG0184	CG51636



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham - Groundwater
Client Sample ID: MW-D
Date Sampled: 07/15/15 10:05
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1507338
ESS Laboratory Sample ID: 1507338-04
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Tetrahydrofuran	ND (0.0050)		8260B		1	07/16/15 18:02	CYG0184	CG51636
Toluene	ND (0.0010)		8260B		1	07/16/15 18:02	CYG0184	CG51636
trans-1,2-Dichloroethene	0.0015 (0.0010)		8260B		1	07/16/15 18:02	CYG0184	CG51636
trans-1,3-Dichloropropene	ND (0.0004)		8260B		1	07/16/15 18:02	CYG0184	CG51636
Trichloroethene	0.826 (0.0200)		8260B		20	07/17/15 17:50	CYG0184	CG51636
Trichlorofluoromethane	ND (0.0010)		8260B		1	07/16/15 18:02	CYG0184	CG51636
Vinyl Acetate	ND (0.0050)		8260B		1	07/16/15 18:02	CYG0184	CG51636
Vinyl Chloride	0.0033 (0.0010)		8260B		1	07/16/15 18:02	CYG0184	CG51636
Xylene O	ND (0.0010)		8260B		1	07/16/15 18:02	CYG0184	CG51636
Xylene P,M	ND (0.0020)		8260B		1	07/16/15 18:02	CYG0184	CG51636
Xylenes (Total)	ND (0.0020)		8260B		1	07/16/15 18:02		[CALC]
Trihalomethanes (Total)	ND (0.0010)		8260B			07/16/15 18:02		[CALC]

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>83 %</i>		<i>70-130</i>
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>79 %</i>		<i>70-130</i>
<i>Surrogate: Dibromofluoromethane</i>	<i>95 %</i>		<i>70-130</i>
<i>Surrogate: Toluene-d8</i>	<i>78 %</i>		<i>70-130</i>



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham - Groundwater
Client Sample ID: MW-FS
Date Sampled: 07/15/15 12:20
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1507338
ESS Laboratory Sample ID: 1507338-05
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1,1,2-Tetrachloroethane	ND (0.0010)		8260B		1	07/16/15 18:28	CYG0184	CG51636
1,1,1-Trichloroethane	ND (0.0010)		8260B		1	07/16/15 18:28	CYG0184	CG51636
1,1,2,2-Tetrachloroethane	ND (0.0005)		8260B		1	07/16/15 18:28	CYG0184	CG51636
1,1,2-Trichloroethane	ND (0.0010)		8260B		1	07/16/15 18:28	CYG0184	CG51636
1,1-Dichloroethane	ND (0.0010)		8260B		1	07/16/15 18:28	CYG0184	CG51636
1,1-Dichloroethene	0.0012 (0.0010)		8260B		1	07/16/15 18:28	CYG0184	CG51636
1,1-Dichloropropene	ND (0.0020)		8260B		1	07/16/15 18:28	CYG0184	CG51636
1,2,3-Trichlorobenzene	ND (0.0010)		8260B		1	07/16/15 18:28	CYG0184	CG51636
1,2,3-Trichloropropane	ND (0.0010)		8260B		1	07/16/15 18:28	CYG0184	CG51636
1,2,4-Trichlorobenzene	ND (0.0010)		8260B		1	07/16/15 18:28	CYG0184	CG51636
1,2,4-Trimethylbenzene	ND (0.0010)		8260B		1	07/16/15 18:28	CYG0184	CG51636
1,2-Dibromo-3-Chloropropane	ND (0.0050)		8260B		1	07/16/15 18:28	CYG0184	CG51636
1,2-Dibromoethane	ND (0.0010)		8260B		1	07/16/15 18:28	CYG0184	CG51636
1,2-Dichlorobenzene	ND (0.0010)		8260B		1	07/16/15 18:28	CYG0184	CG51636
1,2-Dichloroethane	ND (0.0010)		8260B		1	07/16/15 18:28	CYG0184	CG51636
1,2-Dichloropropane	ND (0.0010)		8260B		1	07/16/15 18:28	CYG0184	CG51636
1,3,5-Trimethylbenzene	ND (0.0010)		8260B		1	07/16/15 18:28	CYG0184	CG51636
1,3-Dichlorobenzene	ND (0.0010)		8260B		1	07/16/15 18:28	CYG0184	CG51636
1,3-Dichloropropane	ND (0.0010)		8260B		1	07/16/15 18:28	CYG0184	CG51636
1,4-Dichlorobenzene	ND (0.0010)		8260B		1	07/16/15 18:28	CYG0184	CG51636
1,4-Dioxane - Screen	ND (0.500)		8260B		1	07/16/15 18:28	CYG0184	CG51636
1-Chlorohexane	ND (0.0010)		8260B		1	07/16/15 18:28	CYG0184	CG51636
2,2-Dichloropropane	ND (0.0010)		8260B		1	07/16/15 18:28	CYG0184	CG51636
2-Butanone	ND (0.0100)		8260B		1	07/16/15 18:28	CYG0184	CG51636
2-Chlorotoluene	ND (0.0010)		8260B		1	07/16/15 18:28	CYG0184	CG51636
2-Hexanone	ND (0.0100)		8260B		1	07/16/15 18:28	CYG0184	CG51636
4-Chlorotoluene	ND (0.0010)		8260B		1	07/16/15 18:28	CYG0184	CG51636
4-Isopropyltoluene	ND (0.0010)		8260B		1	07/16/15 18:28	CYG0184	CG51636
4-Methyl-2-Pentanone	ND (0.0250)		8260B		1	07/16/15 18:28	CYG0184	CG51636
Acetone	ND (0.0100)		8260B		1	07/16/15 18:28	CYG0184	CG51636
Benzene	ND (0.0010)		8260B		1	07/16/15 18:28	CYG0184	CG51636
Bromobenzene	ND (0.0020)		8260B		1	07/16/15 18:28	CYG0184	CG51636



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
 Client Project ID: Textron Gorham - Groundwater
 Client Sample ID: MW-FS
 Date Sampled: 07/15/15 12:20
 Percent Solids: N/A
 Initial Volume: 5
 Final Volume: 5
 Extraction Method: 5030B

ESS Laboratory Work Order: 1507338
 ESS Laboratory Sample ID: 1507338-05
 Sample Matrix: Ground Water
 Units: mg/L
 Analyst: MD

8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Bromochloromethane	ND (0.0010)		8260B		1	07/16/15 18:28	CYG0184	CG51636
Bromodichloromethane	ND (0.0006)		8260B		1	07/16/15 18:28	CYG0184	CG51636
Bromoform	ND (0.0010)		8260B		1	07/16/15 18:28	CYG0184	CG51636
Bromomethane	ND (0.0020)		8260B		1	07/16/15 18:28	CYG0184	CG51636
Carbon Disulfide	ND (0.0010)		8260B		1	07/16/15 18:28	CYG0184	CG51636
Carbon Tetrachloride	ND (0.0010)		8260B		1	07/16/15 18:28	CYG0184	CG51636
Chlorobenzene	ND (0.0010)		8260B		1	07/16/15 18:28	CYG0184	CG51636
Chloroethane	ND (0.0020)		8260B		1	07/16/15 18:28	CYG0184	CG51636
Chloroform	ND (0.0010)		8260B		1	07/16/15 18:28	CYG0184	CG51636
Chloromethane	ND (0.0020)		8260B		1	07/16/15 18:28	CYG0184	CG51636
cis-1,2-Dichloroethene	0.0269 (0.0010)		8260B		1	07/16/15 18:28	CYG0184	CG51636
cis-1,3-Dichloropropene	ND (0.0004)		8260B		1	07/16/15 18:28	CYG0184	CG51636
Dibromochloromethane	ND (0.0010)		8260B		1	07/16/15 18:28	CYG0184	CG51636
Dibromomethane	ND (0.0010)		8260B		1	07/16/15 18:28	CYG0184	CG51636
Dichlorodifluoromethane	ND (0.0020)		8260B		1	07/16/15 18:28	CYG0184	CG51636
Diethyl Ether	ND (0.0010)		8260B		1	07/16/15 18:28	CYG0184	CG51636
Di-isopropyl ether	ND (0.0010)		8260B		1	07/16/15 18:28	CYG0184	CG51636
Ethyl tertiary-butyl ether	ND (0.0010)		8260B		1	07/16/15 18:28	CYG0184	CG51636
Ethylbenzene	ND (0.0010)		8260B		1	07/16/15 18:28	CYG0184	CG51636
Hexachlorobutadiene	ND (0.0006)		8260B		1	07/16/15 18:28	CYG0184	CG51636
Hexachloroethane	ND (0.0010)		8260B		1	07/16/15 18:28	CYG0184	CG51636
Isopropylbenzene	ND (0.0010)		8260B		1	07/16/15 18:28	CYG0184	CG51636
Methyl tert-Butyl Ether	ND (0.0010)		8260B		1	07/16/15 18:28	CYG0184	CG51636
Methylene Chloride	ND (0.0020)		8260B		1	07/16/15 18:28	CYG0184	CG51636
Naphthalene	ND (0.0010)		8260B		1	07/16/15 18:28	CYG0184	CG51636
n-Butylbenzene	ND (0.0010)		8260B		1	07/16/15 18:28	CYG0184	CG51636
n-Propylbenzene	ND (0.0010)		8260B		1	07/16/15 18:28	CYG0184	CG51636
sec-Butylbenzene	ND (0.0010)		8260B		1	07/16/15 18:28	CYG0184	CG51636
Styrene	ND (0.0010)		8260B		1	07/16/15 18:28	CYG0184	CG51636
tert-Butylbenzene	ND (0.0010)		8260B		1	07/16/15 18:28	CYG0184	CG51636
Tertiary-amyl methyl ether	ND (0.0010)		8260B		1	07/16/15 18:28	CYG0184	CG51636
Tetrachloroethene	0.0148 (0.0010)		8260B		1	07/16/15 18:28	CYG0184	CG51636



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
 Client Project ID: Textron Gorham - Groundwater
 Client Sample ID: MW-FS
 Date Sampled: 07/15/15 12:20
 Percent Solids: N/A
 Initial Volume: 5
 Final Volume: 5
 Extraction Method: 5030B

ESS Laboratory Work Order: 1507338
 ESS Laboratory Sample ID: 1507338-05
 Sample Matrix: Ground Water
 Units: mg/L
 Analyst: MD

8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Tetrahydrofuran	ND (0.0050)		8260B		1	07/16/15 18:28	CYG0184	CG51636
Toluene	ND (0.0010)		8260B		1	07/16/15 18:28	CYG0184	CG51636
trans-1,2-Dichloroethene	ND (0.0010)		8260B		1	07/16/15 18:28	CYG0184	CG51636
trans-1,3-Dichloropropene	ND (0.0004)		8260B		1	07/16/15 18:28	CYG0184	CG51636
Trichloroethene	0.129 (0.0100)		8260B		10	07/17/15 16:33	CYG0184	CG51636
Trichlorofluoromethane	ND (0.0010)		8260B		1	07/16/15 18:28	CYG0184	CG51636
Vinyl Acetate	ND (0.0050)		8260B		1	07/16/15 18:28	CYG0184	CG51636
Vinyl Chloride	ND (0.0010)		8260B		1	07/16/15 18:28	CYG0184	CG51636
Xylene O	ND (0.0010)		8260B		1	07/16/15 18:28	CYG0184	CG51636
Xylene P,M	ND (0.0020)		8260B		1	07/16/15 18:28	CYG0184	CG51636
Xylenes (Total)	ND (0.0020)		8260B		1	07/16/15 18:28		[CALC]
Trihalomethanes (Total)	ND (0.0010)		8260B			07/16/15 18:28		[CALC]

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>	85 %		70-130
<i>Surrogate: 4-Bromofluorobenzene</i>	77 %		70-130
<i>Surrogate: Dibromofluoromethane</i>	93 %		70-130
<i>Surrogate: Toluene-d8</i>	78 %		70-130



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham - Groundwater
Client Sample ID: DUP-01
Date Sampled: 07/15/15 10:10
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1507338
ESS Laboratory Sample ID: 1507338-06
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1,1,2-Tetrachloroethane	ND (0.0010)		8260B		1	07/16/15 18:53	CYG0184	CG51636
1,1,1-Trichloroethane	ND (0.0010)		8260B		1	07/16/15 18:53	CYG0184	CG51636
1,1,2,2-Tetrachloroethane	ND (0.0005)		8260B		1	07/16/15 18:53	CYG0184	CG51636
1,1,2-Trichloroethane	ND (0.0010)		8260B		1	07/16/15 18:53	CYG0184	CG51636
1,1-Dichloroethane	ND (0.0010)		8260B		1	07/16/15 18:53	CYG0184	CG51636
1,1-Dichloroethene	0.0025 (0.0010)		8260B		1	07/16/15 18:53	CYG0184	CG51636
1,1-Dichloropropene	ND (0.0020)		8260B		1	07/16/15 18:53	CYG0184	CG51636
1,2,3-Trichlorobenzene	ND (0.0010)		8260B		1	07/16/15 18:53	CYG0184	CG51636
1,2,3-Trichloropropane	ND (0.0010)		8260B		1	07/16/15 18:53	CYG0184	CG51636
1,2,4-Trichlorobenzene	ND (0.0010)		8260B		1	07/16/15 18:53	CYG0184	CG51636
1,2,4-Trimethylbenzene	ND (0.0010)		8260B		1	07/16/15 18:53	CYG0184	CG51636
1,2-Dibromo-3-Chloropropane	ND (0.0050)		8260B		1	07/16/15 18:53	CYG0184	CG51636
1,2-Dibromoethane	ND (0.0010)		8260B		1	07/16/15 18:53	CYG0184	CG51636
1,2-Dichlorobenzene	ND (0.0010)		8260B		1	07/16/15 18:53	CYG0184	CG51636
1,2-Dichloroethane	ND (0.0010)		8260B		1	07/16/15 18:53	CYG0184	CG51636
1,2-Dichloropropane	ND (0.0010)		8260B		1	07/16/15 18:53	CYG0184	CG51636
1,3,5-Trimethylbenzene	ND (0.0010)		8260B		1	07/16/15 18:53	CYG0184	CG51636
1,3-Dichlorobenzene	ND (0.0010)		8260B		1	07/16/15 18:53	CYG0184	CG51636
1,3-Dichloropropane	ND (0.0010)		8260B		1	07/16/15 18:53	CYG0184	CG51636
1,4-Dichlorobenzene	ND (0.0010)		8260B		1	07/16/15 18:53	CYG0184	CG51636
1,4-Dioxane - Screen	ND (0.500)		8260B		1	07/16/15 18:53	CYG0184	CG51636
1-Chlorohexane	ND (0.0010)		8260B		1	07/16/15 18:53	CYG0184	CG51636
2,2-Dichloropropane	ND (0.0010)		8260B		1	07/16/15 18:53	CYG0184	CG51636
2-Butanone	ND (0.0100)		8260B		1	07/16/15 18:53	CYG0184	CG51636
2-Chlorotoluene	ND (0.0010)		8260B		1	07/16/15 18:53	CYG0184	CG51636
2-Hexanone	ND (0.0100)		8260B		1	07/16/15 18:53	CYG0184	CG51636
4-Chlorotoluene	ND (0.0010)		8260B		1	07/16/15 18:53	CYG0184	CG51636
4-Isopropyltoluene	ND (0.0010)		8260B		1	07/16/15 18:53	CYG0184	CG51636
4-Methyl-2-Pentanone	ND (0.0250)		8260B		1	07/16/15 18:53	CYG0184	CG51636
Acetone	ND (0.0100)		8260B		1	07/16/15 18:53	CYG0184	CG51636
Benzene	ND (0.0010)		8260B		1	07/16/15 18:53	CYG0184	CG51636
Bromobenzene	ND (0.0020)		8260B		1	07/16/15 18:53	CYG0184	CG51636



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham - Groundwater
Client Sample ID: DUP-01
Date Sampled: 07/15/15 10:10
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1507338
ESS Laboratory Sample ID: 1507338-06
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Bromochloromethane	ND (0.0010)		8260B		1	07/16/15 18:53	CYG0184	CG51636
Bromodichloromethane	ND (0.0006)		8260B		1	07/16/15 18:53	CYG0184	CG51636
Bromoform	ND (0.0010)		8260B		1	07/16/15 18:53	CYG0184	CG51636
Bromomethane	ND (0.0020)		8260B		1	07/16/15 18:53	CYG0184	CG51636
Carbon Disulfide	ND (0.0010)		8260B		1	07/16/15 18:53	CYG0184	CG51636
Carbon Tetrachloride	ND (0.0010)		8260B		1	07/16/15 18:53	CYG0184	CG51636
Chlorobenzene	ND (0.0010)		8260B		1	07/16/15 18:53	CYG0184	CG51636
Chloroethane	ND (0.0020)		8260B		1	07/16/15 18:53	CYG0184	CG51636
Chloroform	ND (0.0010)		8260B		1	07/16/15 18:53	CYG0184	CG51636
Chloromethane	ND (0.0020)		8260B		1	07/16/15 18:53	CYG0184	CG51636
cis-1,2-Dichloroethene	0.0466 (0.0010)		8260B		1	07/16/15 18:53	CYG0184	CG51636
cis-1,3-Dichloropropene	ND (0.0004)		8260B		1	07/16/15 18:53	CYG0184	CG51636
Dibromochloromethane	ND (0.0010)		8260B		1	07/16/15 18:53	CYG0184	CG51636
Dibromomethane	ND (0.0010)		8260B		1	07/16/15 18:53	CYG0184	CG51636
Dichlorodifluoromethane	ND (0.0020)		8260B		1	07/16/15 18:53	CYG0184	CG51636
Diethyl Ether	ND (0.0010)		8260B		1	07/16/15 18:53	CYG0184	CG51636
Di-isopropyl ether	ND (0.0010)		8260B		1	07/16/15 18:53	CYG0184	CG51636
Ethyl tertiary-butyl ether	ND (0.0010)		8260B		1	07/16/15 18:53	CYG0184	CG51636
Ethylbenzene	ND (0.0010)		8260B		1	07/16/15 18:53	CYG0184	CG51636
Hexachlorobutadiene	ND (0.0006)		8260B		1	07/16/15 18:53	CYG0184	CG51636
Hexachloroethane	ND (0.0010)		8260B		1	07/16/15 18:53	CYG0184	CG51636
Isopropylbenzene	ND (0.0010)		8260B		1	07/16/15 18:53	CYG0184	CG51636
Methyl tert-Butyl Ether	ND (0.0010)		8260B		1	07/16/15 18:53	CYG0184	CG51636
Methylene Chloride	ND (0.0020)		8260B		1	07/16/15 18:53	CYG0184	CG51636
Naphthalene	ND (0.0010)		8260B		1	07/16/15 18:53	CYG0184	CG51636
n-Butylbenzene	ND (0.0010)		8260B		1	07/16/15 18:53	CYG0184	CG51636
n-Propylbenzene	ND (0.0010)		8260B		1	07/16/15 18:53	CYG0184	CG51636
sec-Butylbenzene	ND (0.0010)		8260B		1	07/16/15 18:53	CYG0184	CG51636
Styrene	ND (0.0010)		8260B		1	07/16/15 18:53	CYG0184	CG51636
tert-Butylbenzene	ND (0.0010)		8260B		1	07/16/15 18:53	CYG0184	CG51636
Tertiary-amyl methyl ether	ND (0.0010)		8260B		1	07/16/15 18:53	CYG0184	CG51636
Tetrachloroethene	0.0016 (0.0010)		8260B		1	07/16/15 18:53	CYG0184	CG51636



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham - Groundwater
Client Sample ID: DUP-01
Date Sampled: 07/15/15 10:10
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1507338
ESS Laboratory Sample ID: 1507338-06
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Tetrahydrofuran	ND (0.0050)		8260B		1	07/16/15 18:53	CYG0184	CG51636
Toluene	ND (0.0010)		8260B		1	07/16/15 18:53	CYG0184	CG51636
trans-1,2-Dichloroethene	0.0013 (0.0010)		8260B		1	07/16/15 18:53	CYG0184	CG51636
trans-1,3-Dichloropropene	ND (0.0004)		8260B		1	07/16/15 18:53	CYG0184	CG51636
Trichloroethene	0.851 (0.0200)		8260B		20	07/17/15 18:15	CYG0184	CG51636
Trichlorofluoromethane	ND (0.0010)		8260B		1	07/16/15 18:53	CYG0184	CG51636
Vinyl Acetate	ND (0.0050)		8260B		1	07/16/15 18:53	CYG0184	CG51636
Vinyl Chloride	0.0030 (0.0010)		8260B		1	07/16/15 18:53	CYG0184	CG51636
Xylene O	ND (0.0010)		8260B		1	07/16/15 18:53	CYG0184	CG51636
Xylene P,M	ND (0.0020)		8260B		1	07/16/15 18:53	CYG0184	CG51636
Xylenes (Total)	ND (0.0020)		8260B		1	07/16/15 18:53		[CALC]
Trihalomethanes (Total)	ND (0.0010)		8260B			07/16/15 18:53		[CALC]

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>85 %</i>		<i>70-130</i>
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>78 %</i>		<i>70-130</i>
<i>Surrogate: Dibromofluoromethane</i>	<i>96 %</i>		<i>70-130</i>
<i>Surrogate: Toluene-d8</i>	<i>78 %</i>		<i>70-130</i>



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham - Groundwater
Client Sample ID: Trip Blank-01
Date Sampled: 07/15/15 00:00
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1507338
ESS Laboratory Sample ID: 1507338-07
Sample Matrix: Aqueous
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1,1,2-Tetrachloroethane	ND (0.0010)		8260B		1	07/17/15 15:17	CYG0196	CG51742
1,1,1-Trichloroethane	ND (0.0010)		8260B		1	07/17/15 15:17	CYG0196	CG51742
1,1,2,2-Tetrachloroethane	ND (0.0005)		8260B		1	07/17/15 15:17	CYG0196	CG51742
1,1,2-Trichloroethane	ND (0.0010)		8260B		1	07/17/15 15:17	CYG0196	CG51742
1,1-Dichloroethane	ND (0.0010)		8260B		1	07/17/15 15:17	CYG0196	CG51742
1,1-Dichloroethene	ND (0.0010)		8260B		1	07/17/15 15:17	CYG0196	CG51742
1,1-Dichloropropene	ND (0.0020)		8260B		1	07/17/15 15:17	CYG0196	CG51742
1,2,3-Trichlorobenzene	ND (0.0010)		8260B		1	07/17/15 15:17	CYG0196	CG51742
1,2,3-Trichloropropane	ND (0.0010)		8260B		1	07/17/15 15:17	CYG0196	CG51742
1,2,4-Trichlorobenzene	ND (0.0010)		8260B		1	07/17/15 15:17	CYG0196	CG51742
1,2,4-Trimethylbenzene	ND (0.0010)		8260B		1	07/17/15 15:17	CYG0196	CG51742
1,2-Dibromo-3-Chloropropane	ND (0.0050)		8260B		1	07/17/15 15:17	CYG0196	CG51742
1,2-Dibromoethane	ND (0.0010)		8260B		1	07/17/15 15:17	CYG0196	CG51742
1,2-Dichlorobenzene	ND (0.0010)		8260B		1	07/17/15 15:17	CYG0196	CG51742
1,2-Dichloroethane	ND (0.0010)		8260B		1	07/17/15 15:17	CYG0196	CG51742
1,2-Dichloropropane	ND (0.0010)		8260B		1	07/17/15 15:17	CYG0196	CG51742
1,3,5-Trimethylbenzene	ND (0.0010)		8260B		1	07/17/15 15:17	CYG0196	CG51742
1,3-Dichlorobenzene	ND (0.0010)		8260B		1	07/17/15 15:17	CYG0196	CG51742
1,3-Dichloropropane	ND (0.0010)		8260B		1	07/17/15 15:17	CYG0196	CG51742
1,4-Dichlorobenzene	ND (0.0010)		8260B		1	07/17/15 15:17	CYG0196	CG51742
1,4-Dioxane - Screen	ND (0.500)		8260B		1	07/17/15 15:17	CYG0196	CG51742
1-Chlorohexane	ND (0.0010)		8260B		1	07/17/15 15:17	CYG0196	CG51742
2,2-Dichloropropane	ND (0.0010)		8260B		1	07/17/15 15:17	CYG0196	CG51742
2-Butanone	ND (0.0100)		8260B		1	07/17/15 15:17	CYG0196	CG51742
2-Chlorotoluene	ND (0.0010)		8260B		1	07/17/15 15:17	CYG0196	CG51742
2-Hexanone	ND (0.0100)		8260B		1	07/17/15 15:17	CYG0196	CG51742
4-Chlorotoluene	ND (0.0010)		8260B		1	07/17/15 15:17	CYG0196	CG51742
4-Isopropyltoluene	ND (0.0010)		8260B		1	07/17/15 15:17	CYG0196	CG51742
4-Methyl-2-Pentanone	ND (0.0250)		8260B		1	07/17/15 15:17	CYG0196	CG51742
Acetone	ND (0.0100)		8260B		1	07/17/15 15:17	CYG0196	CG51742
Benzene	ND (0.0010)		8260B		1	07/17/15 15:17	CYG0196	CG51742
Bromobenzene	ND (0.0020)		8260B		1	07/17/15 15:17	CYG0196	CG51742



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham - Groundwater
Client Sample ID: Trip Blank-01
Date Sampled: 07/15/15 00:00
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1507338
ESS Laboratory Sample ID: 1507338-07
Sample Matrix: Aqueous
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Bromochloromethane	ND (0.0010)		8260B		1	07/17/15 15:17	CYG0196	CG51742
Bromodichloromethane	ND (0.0006)		8260B		1	07/17/15 15:17	CYG0196	CG51742
Bromoform	ND (0.0010)		8260B		1	07/17/15 15:17	CYG0196	CG51742
Bromomethane	ND (0.0020)		8260B		1	07/17/15 15:17	CYG0196	CG51742
Carbon Disulfide	ND (0.0010)		8260B		1	07/17/15 15:17	CYG0196	CG51742
Carbon Tetrachloride	ND (0.0010)		8260B		1	07/17/15 15:17	CYG0196	CG51742
Chlorobenzene	ND (0.0010)		8260B		1	07/17/15 15:17	CYG0196	CG51742
Chloroethane	ND (0.0020)		8260B		1	07/17/15 15:17	CYG0196	CG51742
Chloroform	ND (0.0010)		8260B		1	07/17/15 15:17	CYG0196	CG51742
Chloromethane	ND (0.0020)		8260B		1	07/17/15 15:17	CYG0196	CG51742
cis-1,2-Dichloroethene	ND (0.0010)		8260B		1	07/17/15 15:17	CYG0196	CG51742
cis-1,3-Dichloropropene	ND (0.0004)		8260B		1	07/17/15 15:17	CYG0196	CG51742
Dibromochloromethane	ND (0.0010)		8260B		1	07/17/15 15:17	CYG0196	CG51742
Dibromomethane	ND (0.0010)		8260B		1	07/17/15 15:17	CYG0196	CG51742
Dichlorodifluoromethane	ND (0.0020)		8260B		1	07/17/15 15:17	CYG0196	CG51742
Diethyl Ether	ND (0.0010)		8260B		1	07/17/15 15:17	CYG0196	CG51742
Di-isopropyl ether	ND (0.0010)		8260B		1	07/17/15 15:17	CYG0196	CG51742
Ethyl tertiary-butyl ether	ND (0.0010)		8260B		1	07/17/15 15:17	CYG0196	CG51742
Ethylbenzene	ND (0.0010)		8260B		1	07/17/15 15:17	CYG0196	CG51742
Hexachlorobutadiene	ND (0.0006)		8260B		1	07/17/15 15:17	CYG0196	CG51742
Hexachloroethane	ND (0.0010)		8260B		1	07/17/15 15:17	CYG0196	CG51742
Isopropylbenzene	ND (0.0010)		8260B		1	07/17/15 15:17	CYG0196	CG51742
Methyl tert-Butyl Ether	ND (0.0010)		8260B		1	07/17/15 15:17	CYG0196	CG51742
Methylene Chloride	ND (0.0020)		8260B		1	07/17/15 15:17	CYG0196	CG51742
Naphthalene	ND (0.0010)		8260B		1	07/17/15 15:17	CYG0196	CG51742
n-Butylbenzene	ND (0.0010)		8260B		1	07/17/15 15:17	CYG0196	CG51742
n-Propylbenzene	ND (0.0010)		8260B		1	07/17/15 15:17	CYG0196	CG51742
sec-Butylbenzene	ND (0.0010)		8260B		1	07/17/15 15:17	CYG0196	CG51742
Styrene	ND (0.0010)		8260B		1	07/17/15 15:17	CYG0196	CG51742
tert-Butylbenzene	ND (0.0010)		8260B		1	07/17/15 15:17	CYG0196	CG51742
Tertiary-amyl methyl ether	ND (0.0010)		8260B		1	07/17/15 15:17	CYG0196	CG51742
Tetrachloroethene	ND (0.0010)		8260B		1	07/17/15 15:17	CYG0196	CG51742



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham - Groundwater
Client Sample ID: Trip Blank-01
Date Sampled: 07/15/15 00:00
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1507338
ESS Laboratory Sample ID: 1507338-07
Sample Matrix: Aqueous
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Tetrahydrofuran	ND (0.0050)		8260B		1	07/17/15 15:17	CYG0196	CG51742
Toluene	ND (0.0010)		8260B		1	07/17/15 15:17	CYG0196	CG51742
trans-1,2-Dichloroethene	ND (0.0010)		8260B		1	07/17/15 15:17	CYG0196	CG51742
trans-1,3-Dichloropropene	ND (0.0004)		8260B		1	07/17/15 15:17	CYG0196	CG51742
Trichloroethene	ND (0.0010)		8260B		1	07/17/15 15:17	CYG0196	CG51742
Trichlorofluoromethane	ND (0.0010)		8260B		1	07/17/15 15:17	CYG0196	CG51742
Vinyl Acetate	ND (0.0050)		8260B		1	07/17/15 15:17	CYG0196	CG51742
Vinyl Chloride	ND (0.0010)		8260B		1	07/17/15 15:17	CYG0196	CG51742
Xylene O	ND (0.0010)		8260B		1	07/17/15 15:17	CYG0196	CG51742
Xylene P,M	ND (0.0020)		8260B		1	07/17/15 15:17	CYG0196	CG51742
Xylenes (Total)	ND (0.0020)		8260B		1	07/17/15 15:17		[CALC]
Trihalomethanes (Total)	ND (0.0010)		8260B			07/17/15 15:17		[CALC]

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>89 %</i>		<i>70-130</i>
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>77 %</i>		<i>70-130</i>
<i>Surrogate: Dibromofluoromethane</i>	<i>97 %</i>		<i>70-130</i>
<i>Surrogate: Toluene-d8</i>	<i>75 %</i>		<i>70-130</i>



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham - Groundwater
Client Sample ID: MW-241
Date Sampled: 07/15/15 12:05
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1507338
ESS Laboratory Sample ID: 1507338-08
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1,1,2-Tetrachloroethane	ND (0.0010)		8260B		1	07/16/15 19:44	CYG0184	CG51636
1,1,1-Trichloroethane	ND (0.0010)		8260B		1	07/16/15 19:44	CYG0184	CG51636
1,1,2,2-Tetrachloroethane	ND (0.0005)		8260B		1	07/16/15 19:44	CYG0184	CG51636
1,1,2-Trichloroethane	ND (0.0010)		8260B		1	07/16/15 19:44	CYG0184	CG51636
1,1-Dichloroethane	ND (0.0010)		8260B		1	07/16/15 19:44	CYG0184	CG51636
1,1-Dichloroethene	0.0026 (0.0010)		8260B		1	07/16/15 19:44	CYG0184	CG51636
1,1-Dichloropropene	ND (0.0020)		8260B		1	07/16/15 19:44	CYG0184	CG51636
1,2,3-Trichlorobenzene	ND (0.0010)		8260B		1	07/16/15 19:44	CYG0184	CG51636
1,2,3-Trichloropropane	ND (0.0010)		8260B		1	07/16/15 19:44	CYG0184	CG51636
1,2,4-Trichlorobenzene	ND (0.0010)		8260B		1	07/16/15 19:44	CYG0184	CG51636
1,2,4-Trimethylbenzene	ND (0.0010)		8260B		1	07/16/15 19:44	CYG0184	CG51636
1,2-Dibromo-3-Chloropropane	ND (0.0050)		8260B		1	07/16/15 19:44	CYG0184	CG51636
1,2-Dibromoethane	ND (0.0010)		8260B		1	07/16/15 19:44	CYG0184	CG51636
1,2-Dichlorobenzene	ND (0.0010)		8260B		1	07/16/15 19:44	CYG0184	CG51636
1,2-Dichloroethane	ND (0.0010)		8260B		1	07/16/15 19:44	CYG0184	CG51636
1,2-Dichloropropane	ND (0.0010)		8260B		1	07/16/15 19:44	CYG0184	CG51636
1,3,5-Trimethylbenzene	ND (0.0010)		8260B		1	07/16/15 19:44	CYG0184	CG51636
1,3-Dichlorobenzene	ND (0.0010)		8260B		1	07/16/15 19:44	CYG0184	CG51636
1,3-Dichloropropane	ND (0.0010)		8260B		1	07/16/15 19:44	CYG0184	CG51636
1,4-Dichlorobenzene	ND (0.0010)		8260B		1	07/16/15 19:44	CYG0184	CG51636
1,4-Dioxane - Screen	ND (0.500)		8260B		1	07/16/15 19:44	CYG0184	CG51636
1-Chlorohexane	ND (0.0010)		8260B		1	07/16/15 19:44	CYG0184	CG51636
2,2-Dichloropropane	ND (0.0010)		8260B		1	07/16/15 19:44	CYG0184	CG51636
2-Butanone	ND (0.0100)		8260B		1	07/16/15 19:44	CYG0184	CG51636
2-Chlorotoluene	ND (0.0010)		8260B		1	07/16/15 19:44	CYG0184	CG51636
2-Hexanone	ND (0.0100)		8260B		1	07/16/15 19:44	CYG0184	CG51636
4-Chlorotoluene	ND (0.0010)		8260B		1	07/16/15 19:44	CYG0184	CG51636
4-Isopropyltoluene	ND (0.0010)		8260B		1	07/16/15 19:44	CYG0184	CG51636
4-Methyl-2-Pentanone	ND (0.0250)		8260B		1	07/16/15 19:44	CYG0184	CG51636
Acetone	ND (0.0100)		8260B		1	07/16/15 19:44	CYG0184	CG51636
Benzene	ND (0.0010)		8260B		1	07/16/15 19:44	CYG0184	CG51636
Bromobenzene	ND (0.0020)		8260B		1	07/16/15 19:44	CYG0184	CG51636



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham - Groundwater
Client Sample ID: MW-241
Date Sampled: 07/15/15 12:05
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1507338
ESS Laboratory Sample ID: 1507338-08
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Bromochloromethane	ND (0.0010)		8260B		1	07/16/15 19:44	CYG0184	CG51636
Bromodichloromethane	ND (0.0006)		8260B		1	07/16/15 19:44	CYG0184	CG51636
Bromoform	ND (0.0010)		8260B		1	07/16/15 19:44	CYG0184	CG51636
Bromomethane	ND (0.0020)		8260B		1	07/16/15 19:44	CYG0184	CG51636
Carbon Disulfide	ND (0.0010)		8260B		1	07/16/15 19:44	CYG0184	CG51636
Carbon Tetrachloride	ND (0.0010)		8260B		1	07/16/15 19:44	CYG0184	CG51636
Chlorobenzene	ND (0.0010)		8260B		1	07/16/15 19:44	CYG0184	CG51636
Chloroethane	ND (0.0020)		8260B		1	07/16/15 19:44	CYG0184	CG51636
Chloroform	ND (0.0010)		8260B		1	07/16/15 19:44	CYG0184	CG51636
Chloromethane	ND (0.0020)		8260B		1	07/16/15 19:44	CYG0184	CG51636
cis-1,2-Dichloroethene	0.0301 (0.0010)		8260B		1	07/16/15 19:44	CYG0184	CG51636
cis-1,3-Dichloropropene	ND (0.0004)		8260B		1	07/16/15 19:44	CYG0184	CG51636
Dibromochloromethane	ND (0.0010)		8260B		1	07/16/15 19:44	CYG0184	CG51636
Dibromomethane	ND (0.0010)		8260B		1	07/16/15 19:44	CYG0184	CG51636
Dichlorodifluoromethane	ND (0.0020)		8260B		1	07/16/15 19:44	CYG0184	CG51636
Diethyl Ether	ND (0.0010)		8260B		1	07/16/15 19:44	CYG0184	CG51636
Di-isopropyl ether	ND (0.0010)		8260B		1	07/16/15 19:44	CYG0184	CG51636
Ethyl tertiary-butyl ether	ND (0.0010)		8260B		1	07/16/15 19:44	CYG0184	CG51636
Ethylbenzene	ND (0.0010)		8260B		1	07/16/15 19:44	CYG0184	CG51636
Hexachlorobutadiene	ND (0.0006)		8260B		1	07/16/15 19:44	CYG0184	CG51636
Hexachloroethane	ND (0.0010)		8260B		1	07/16/15 19:44	CYG0184	CG51636
Isopropylbenzene	ND (0.0010)		8260B		1	07/16/15 19:44	CYG0184	CG51636
Methyl tert-Butyl Ether	ND (0.0010)		8260B		1	07/16/15 19:44	CYG0184	CG51636
Methylene Chloride	ND (0.0020)		8260B		1	07/16/15 19:44	CYG0184	CG51636
Naphthalene	ND (0.0010)		8260B		1	07/16/15 19:44	CYG0184	CG51636
n-Butylbenzene	ND (0.0010)		8260B		1	07/16/15 19:44	CYG0184	CG51636
n-Propylbenzene	ND (0.0010)		8260B		1	07/16/15 19:44	CYG0184	CG51636
sec-Butylbenzene	ND (0.0010)		8260B		1	07/16/15 19:44	CYG0184	CG51636
Styrene	ND (0.0010)		8260B		1	07/16/15 19:44	CYG0184	CG51636
tert-Butylbenzene	ND (0.0010)		8260B		1	07/16/15 19:44	CYG0184	CG51636
Tertiary-amyl methyl ether	ND (0.0010)		8260B		1	07/16/15 19:44	CYG0184	CG51636
Tetrachloroethene	ND (0.0010)		8260B		1	07/16/15 19:44	CYG0184	CG51636



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham - Groundwater
Client Sample ID: MW-241
Date Sampled: 07/15/15 12:05
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1507338
ESS Laboratory Sample ID: 1507338-08
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Tetrahydrofuran	ND (0.0050)		8260B		1	07/16/15 19:44	CYG0184	CG51636
Toluene	ND (0.0010)		8260B		1	07/16/15 19:44	CYG0184	CG51636
trans-1,2-Dichloroethene	ND (0.0010)		8260B		1	07/16/15 19:44	CYG0184	CG51636
trans-1,3-Dichloropropene	ND (0.0004)		8260B		1	07/16/15 19:44	CYG0184	CG51636
Trichloroethene	0.390 (0.0100)		8260B		10	07/17/15 16:59	CYG0184	CG51636
Trichlorofluoromethane	ND (0.0010)		8260B		1	07/16/15 19:44	CYG0184	CG51636
Vinyl Acetate	ND (0.0050)		8260B		1	07/16/15 19:44	CYG0184	CG51636
Vinyl Chloride	ND (0.0010)		8260B		1	07/16/15 19:44	CYG0184	CG51636
Xylene O	ND (0.0010)		8260B		1	07/16/15 19:44	CYG0184	CG51636
Xylene P,M	ND (0.0020)		8260B		1	07/16/15 19:44	CYG0184	CG51636
Xylenes (Total)	ND (0.0020)		8260B		1	07/16/15 19:44		[CALC]
Trihalomethanes (Total)	ND (0.0010)		8260B			07/16/15 19:44		[CALC]

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>85 %</i>		<i>70-130</i>
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>76 %</i>		<i>70-130</i>
<i>Surrogate: Dibromofluoromethane</i>	<i>94 %</i>		<i>70-130</i>
<i>Surrogate: Toluene-d8</i>	<i>77 %</i>		<i>70-130</i>



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham - Groundwater

ESS Laboratory Work Order: 1507338

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8260B Volatile Organic Compounds

Batch CG51636 - 5030B

Blank

1,1,1,2-Tetrachloroethane	ND	0.0010	mg/L							
1,1,1-Trichloroethane	ND	0.0010	mg/L							
1,1,2,2-Tetrachloroethane	ND	0.0005	mg/L							
1,1,2-Trichloroethane	ND	0.0010	mg/L							
1,1-Dichloroethane	ND	0.0010	mg/L							
1,1-Dichloroethene	ND	0.0010	mg/L							
1,1-Dichloropropene	ND	0.0020	mg/L							
1,2,3-Trichlorobenzene	ND	0.0010	mg/L							
1,2,3-Trichloropropane	ND	0.0010	mg/L							
1,2,4-Trichlorobenzene	ND	0.0010	mg/L							
1,2,4-Trimethylbenzene	ND	0.0010	mg/L							
1,2-Dibromo-3-Chloropropane	ND	0.0050	mg/L							
1,2-Dibromoethane	ND	0.0010	mg/L							
1,2-Dichlorobenzene	ND	0.0010	mg/L							
1,2-Dichloroethane	ND	0.0010	mg/L							
1,2-Dichloropropane	ND	0.0010	mg/L							
1,3,5-Trimethylbenzene	ND	0.0010	mg/L							
1,3-Dichlorobenzene	ND	0.0010	mg/L							
1,3-Dichloropropane	ND	0.0010	mg/L							
1,4-Dichlorobenzene	ND	0.0010	mg/L							
1,4-Dioxane - Screen	ND	0.500	mg/L							
1-Chlorohexane	ND	0.0010	mg/L							
2,2-Dichloropropane	ND	0.0010	mg/L							
2-Butanone	ND	0.0100	mg/L							
2-Chlorotoluene	ND	0.0010	mg/L							
2-Hexanone	ND	0.0100	mg/L							
4-Chlorotoluene	ND	0.0010	mg/L							
4-Isopropyltoluene	ND	0.0010	mg/L							
4-Methyl-2-Pentanone	ND	0.0250	mg/L							
Acetone	ND	0.0100	mg/L							
Benzene	ND	0.0010	mg/L							
Bromobenzene	ND	0.0020	mg/L							
Bromochloromethane	ND	0.0010	mg/L							
Bromodichloromethane	ND	0.0006	mg/L							
Bromoform	ND	0.0010	mg/L							
Bromomethane	ND	0.0020	mg/L							
Carbon Disulfide	ND	0.0010	mg/L							
Carbon Tetrachloride	ND	0.0010	mg/L							
Chlorobenzene	ND	0.0010	mg/L							
Chloroethane	ND	0.0020	mg/L							
Chloroform	ND	0.0010	mg/L							
Chloromethane	ND	0.0020	mg/L							
cis-1,2-Dichloroethene	ND	0.0010	mg/L							
cis-1,3-Dichloropropene	ND	0.0004	mg/L							



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham - Groundwater

ESS Laboratory Work Order: 1507338

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8260B Volatile Organic Compounds

Batch CG51636 - 5030B

Dibromochloromethane	ND	0.0010	mg/L							
Dibromomethane	ND	0.0010	mg/L							
Dichlorodifluoromethane	ND	0.0020	mg/L							
Diethyl Ether	ND	0.0010	mg/L							
Di-isopropyl ether	ND	0.0010	mg/L							
Ethyl tertiary-butyl ether	ND	0.0010	mg/L							
Ethylbenzene	ND	0.0010	mg/L							
Hexachlorobutadiene	ND	0.0006	mg/L							
Hexachloroethane	ND	0.0010	mg/L							
Isopropylbenzene	ND	0.0010	mg/L							
Methyl tert-Butyl Ether	ND	0.0010	mg/L							
Methylene Chloride	ND	0.0020	mg/L							
Naphthalene	ND	0.0010	mg/L							
n-Butylbenzene	ND	0.0010	mg/L							
n-Propylbenzene	ND	0.0010	mg/L							
sec-Butylbenzene	ND	0.0010	mg/L							
Styrene	ND	0.0010	mg/L							
tert-Butylbenzene	ND	0.0010	mg/L							
Tertiary-amyl methyl ether	ND	0.0010	mg/L							
Tetrachloroethene	ND	0.0010	mg/L							
Tetrahydrofuran	ND	0.0050	mg/L							
Toluene	ND	0.0010	mg/L							
trans-1,2-Dichloroethene	ND	0.0010	mg/L							
trans-1,3-Dichloropropene	ND	0.0004	mg/L							
Trichloroethene	ND	0.0010	mg/L							
Trichlorofluoromethane	ND	0.0010	mg/L							
Trihalomethanes (Total)	ND	0.0010	mg/L							
Vinyl Acetate	ND	0.0050	mg/L							
Vinyl Chloride	ND	0.0010	mg/L							
Xylene O	ND	0.0010	mg/L							
Xylene P,M	ND	0.0020	mg/L							
Xylenes (Total)	ND	0.0020	mg/L							
Surrogate: 1,2-Dichloroethane-d4	0.0212		mg/L	0.02500		85	70-130			
Surrogate: 4-Bromofluorobenzene	0.0195		mg/L	0.02500		78	70-130			
Surrogate: Dibromofluoromethane	0.0230		mg/L	0.02500		92	70-130			
Surrogate: Toluene-d8	0.0190		mg/L	0.02500		76	70-130			

LCS

1,1,1,2-Tetrachloroethane	10.7		ug/L	10.00		107	70-130			
1,1,1-Trichloroethane	10.2		ug/L	10.00		102	70-130			
1,1,2,2-Tetrachloroethane	10.0		ug/L	10.00		100	70-130			
1,1,2-Trichloroethane	9.09		ug/L	10.00		91	70-130			
1,1-Dichloroethane	9.03		ug/L	10.00		90	70-130			
1,1-Dichloroethene	8.74		ug/L	10.00		87	70-130			
1,1-Dichloropropene	8.88		ug/L	10.00		89	70-130			
1,2,3-Trichlorobenzene	9.28		ug/L	10.00		93	70-130			



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham - Groundwater

ESS Laboratory Work Order: 1507338

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8260B Volatile Organic Compounds

Batch CG51636 - 5030B

1,2,3-Trichloropropane	8.95		ug/L	10.00		90	70-130			
1,2,4-Trichlorobenzene	9.05		ug/L	10.00		90	70-130			
1,2,4-Trimethylbenzene	9.51		ug/L	10.00		95	70-130			
1,2-Dibromo-3-Chloropropane	12.1		ug/L	10.00		121	70-130			
1,2-Dibromoethane	9.30		ug/L	10.00		93	70-130			
1,2-Dichlorobenzene	9.24		ug/L	10.00		92	70-130			
1,2-Dichloroethane	9.50		ug/L	10.00		95	70-130			
1,2-Dichloropropane	9.02		ug/L	10.00		90	70-130			
1,3,5-Trimethylbenzene	9.98		ug/L	10.00		100	70-130			
1,3-Dichlorobenzene	9.50		ug/L	10.00		95	70-130			
1,3-Dichloropropane	10.0		ug/L	10.00		100	70-130			
1,4-Dichlorobenzene	9.55		ug/L	10.00		96	70-130			
1,4-Dioxane - Screen	191		ug/L	200.0		95	0-332			
1-Chlorohexane	8.23		ug/L	10.00		82	70-130			
2,2-Dichloropropane	9.98		ug/L	10.00		100	70-130			
2-Butanone	49.1		ug/L	50.00		98	70-130			
2-Chlorotoluene	9.32		ug/L	10.00		93	70-130			
2-Hexanone	47.5		ug/L	50.00		95	70-130			
4-Chlorotoluene	9.61		ug/L	10.00		96	70-130			
4-Isopropyltoluene	9.46		ug/L	10.00		95	70-130			
4-Methyl-2-Pentanone	47.4		ug/L	50.00		95	70-130			
Acetone	58.1		ug/L	50.00		116	70-130			
Benzene	9.28		ug/L	10.00		93	70-130			
Bromobenzene	9.53		ug/L	10.00		95	70-130			
Bromochloromethane	9.85		ug/L	10.00		98	70-130			
Bromodichloromethane	9.59		ug/L	10.00		96	70-130			
Bromoform	11.8		ug/L	10.00		118	70-130			
Bromomethane	12.6		ug/L	10.00		126	70-130			
Carbon Disulfide	9.12		ug/L	10.00		91	70-130			
Carbon Tetrachloride	11.4		ug/L	10.00		114	70-130			
Chlorobenzene	9.32		ug/L	10.00		93	70-130			
Chloroethane	8.41		ug/L	10.00		84	70-130			
Chloroform	9.11		ug/L	10.00		91	70-130			
Chloromethane	9.84		ug/L	10.00		98	70-130			
cis-1,2-Dichloroethene	9.56		ug/L	10.00		96	70-130			
cis-1,3-Dichloropropene	9.85		ug/L	10.00		98	70-130			
Dibromochloromethane	10.9		ug/L	10.00		109	70-130			
Dibromomethane	9.80		ug/L	10.00		98	70-130			
Dichlorodifluoromethane	7.87		ug/L	10.00		79	70-130			
Diethyl Ether	9.51		ug/L	10.00		95	70-130			
Di-isopropyl ether	8.44		ug/L	10.00		84	70-130			
Ethyl tertiary-butyl ether	8.26		ug/L	10.00		83	70-130			
Ethylbenzene	8.96		ug/L	10.00		90	70-130			
Hexachlorobutadiene	11.1		ug/L	10.00		111	70-130			
Hexachloroethane	13.6		ug/L	10.00		136	70-130			B+



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham - Groundwater

ESS Laboratory Work Order: 1507338

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8260B Volatile Organic Compounds

Batch CG51636 - 5030B

Isopropylbenzene	9.12		ug/L	10.00		91	70-130			
Methyl tert-Butyl Ether	8.60		ug/L	10.00		86	70-130			
Methylene Chloride	10.0		ug/L	10.00		100	70-130			
Naphthalene	9.91		ug/L	10.00		99	70-130			
n-Butylbenzene	9.15		ug/L	10.00		92	70-130			
n-Propylbenzene	9.29		ug/L	10.00		93	70-130			
sec-Butylbenzene	9.57		ug/L	10.00		96	70-130			
Styrene	8.95		ug/L	10.00		90	70-130			
tert-Butylbenzene	9.30		ug/L	10.00		93	70-130			
Tertiary-amyl methyl ether	7.86		ug/L	10.00		79	70-130			
Tetrachloroethene	7.89		ug/L	10.00		79	70-130			
Tetrahydrofuran	9.09		ug/L	10.00		91	70-130			
Toluene	9.62		ug/L	10.00		96	70-130			
trans-1,2-Dichloroethene	8.38		ug/L	10.00		84	70-130			
trans-1,3-Dichloropropene	9.07		ug/L	10.00		91	70-130			
Trichloroethene	8.65		ug/L	10.00		86	70-130			
Trichlorofluoromethane	8.19		ug/L	10.00		82	70-130			
Trihalomethanes (Total)	41.4		mg/L							
Vinyl Acetate	11.8		ug/L	10.00		118	70-130			
Vinyl Chloride	9.87		ug/L	10.00		99	70-130			
Xylene O	9.82		ug/L	10.00		98	70-130			
Xylene P,M	19.1		ug/L	20.00		96	70-130			
Xylenes (Total)	29.0		mg/L							
Surrogate: 1,2-Dichloroethane-d4	0.0229		mg/L	0.02500		92	70-130			
Surrogate: 4-Bromofluorobenzene	0.0232		mg/L	0.02500		93	70-130			
Surrogate: Dibromofluoromethane	0.0256		mg/L	0.02500		102	70-130			
Surrogate: Toluene-d8	0.0229		mg/L	0.02500		92	70-130			

LCS Dup

1,1,1,2-Tetrachloroethane	10.6		ug/L	10.00		106	70-130	2	25	
1,1,1-Trichloroethane	10.0		ug/L	10.00		100	70-130	1	25	
1,1,2,2-Tetrachloroethane	9.45		ug/L	10.00		94	70-130	6	25	
1,1,2-Trichloroethane	8.77		ug/L	10.00		88	70-130	4	25	
1,1-Dichloroethane	8.78		ug/L	10.00		88	70-130	3	25	
1,1-Dichloroethene	8.92		ug/L	10.00		89	70-130	2	25	
1,1-Dichloropropene	8.64		ug/L	10.00		86	70-130	3	25	
1,2,3-Trichlorobenzene	8.77		ug/L	10.00		88	70-130	6	25	
1,2,3-Trichloropropane	8.54		ug/L	10.00		85	70-130	5	25	
1,2,4-Trichlorobenzene	8.40		ug/L	10.00		84	70-130	7	25	
1,2,4-Trimethylbenzene	9.22		ug/L	10.00		92	70-130	3	25	
1,2-Dibromo-3-Chloropropane	11.9		ug/L	10.00		119	70-130	2	25	
1,2-Dibromoethane	9.18		ug/L	10.00		92	70-130	1	25	
1,2-Dichlorobenzene	8.97		ug/L	10.00		90	70-130	3	25	
1,2-Dichloroethane	9.27		ug/L	10.00		93	70-130	2	25	
1,2-Dichloropropane	8.74		ug/L	10.00		87	70-130	3	25	
1,3,5-Trimethylbenzene	9.65		ug/L	10.00		96	70-130	3	25	



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham - Groundwater

ESS Laboratory Work Order: 1507338

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8260B Volatile Organic Compounds

Batch CG51636 - 5030B

1,3-Dichlorobenzene	9.16		ug/L	10.00		92	70-130	4	25	
1,3-Dichloropropane	9.87		ug/L	10.00		99	70-130	2	25	
1,4-Dichlorobenzene	9.31		ug/L	10.00		93	70-130	3	25	
1,4-Dioxane - Screen	181		ug/L	200.0		90	0-332	5	200	
1-Chlorohexane	8.17		ug/L	10.00		82	70-130	0.7	25	
2,2-Dichloropropane	9.80		ug/L	10.00		98	70-130	2	25	
2-Butanone	46.9		ug/L	50.00		94	70-130	5	25	
2-Chlorotoluene	8.93		ug/L	10.00		89	70-130	4	25	
2-Hexanone	44.2		ug/L	50.00		88	70-130	7	25	
4-Chlorotoluene	9.29		ug/L	10.00		93	70-130	3	25	
4-Isopropyltoluene	9.15		ug/L	10.00		92	70-130	3	25	
4-Methyl-2-Pentanone	45.1		ug/L	50.00		90	70-130	5	25	
Acetone	48.9		ug/L	50.00		98	70-130	17	25	
Benzene	9.20		ug/L	10.00		92	70-130	0.9	25	
Bromobenzene	9.18		ug/L	10.00		92	70-130	4	25	
Bromochloromethane	9.94		ug/L	10.00		99	70-130	0.9	25	
Bromodichloromethane	9.53		ug/L	10.00		95	70-130	0.6	25	
Bromoform	11.4		ug/L	10.00		114	70-130	4	25	
Bromomethane	11.7		ug/L	10.00		117	70-130	7	25	
Carbon Disulfide	9.10		ug/L	10.00		91	70-130	0.2	25	
Carbon Tetrachloride	11.4		ug/L	10.00		114	70-130	0.6	25	
Chlorobenzene	9.09		ug/L	10.00		91	70-130	2	25	
Chloroethane	8.47		ug/L	10.00		85	70-130	0.7	25	
Chloroform	9.05		ug/L	10.00		90	70-130	0.7	25	
Chloromethane	9.49		ug/L	10.00		95	70-130	4	25	
cis-1,2-Dichloroethene	9.35		ug/L	10.00		94	70-130	2	25	
cis-1,3-Dichloropropene	9.65		ug/L	10.00		96	70-130	2	25	
Dibromochloromethane	10.8		ug/L	10.00		108	70-130	2	25	
Dibromomethane	9.50		ug/L	10.00		95	70-130	3	25	
Dichlorodifluoromethane	7.70		ug/L	10.00		77	70-130	2	25	
Diethyl Ether	9.47		ug/L	10.00		95	70-130	0.4	25	
Di-isopropyl ether	8.34		ug/L	10.00		83	70-130	1	25	
Ethyl tertiary-butyl ether	8.32		ug/L	10.00		83	70-130	0.7	25	
Ethylbenzene	8.95		ug/L	10.00		90	70-130	0.1	25	
Hexachlorobutadiene	10.2		ug/L	10.00		102	70-130	9	25	
Hexachloroethane	13.0		ug/L	10.00		130	70-130	4	25	
Isopropylbenzene	8.79		ug/L	10.00		88	70-130	4	25	
Methyl tert-Butyl Ether	8.63		ug/L	10.00		86	70-130	0.3	25	
Methylene Chloride	9.71		ug/L	10.00		97	70-130	3	25	
Naphthalene	9.03		ug/L	10.00		90	70-130	9	25	
n-Butylbenzene	8.63		ug/L	10.00		86	70-130	6	25	
n-Propylbenzene	9.07		ug/L	10.00		91	70-130	2	25	
sec-Butylbenzene	9.25		ug/L	10.00		92	70-130	3	25	
Styrene	8.88		ug/L	10.00		89	70-130	0.8	25	
tert-Butylbenzene	9.09		ug/L	10.00		91	70-130	2	25	



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham - Groundwater

ESS Laboratory Work Order: 1507338

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8260B Volatile Organic Compounds

Batch CG51636 - 5030B

Tertiary-amyl methyl ether	7.65		ug/L	10.00		76	70-130	3	25	
Tetrachloroethene	8.27		ug/L	10.00		83	70-130	5	25	
Tetrahydrofuran	8.83		ug/L	10.00		88	70-130	3	25	
Toluene	9.49		ug/L	10.00		95	70-130	1	25	
trans-1,2-Dichloroethene	8.50		ug/L	10.00		85	70-130	1	25	
trans-1,3-Dichloropropene	9.05		ug/L	10.00		90	70-130	0.2	25	
Trichloroethene	8.89		ug/L	10.00		89	70-130	3	25	
Trichlorofluoromethane	7.99		ug/L	10.00		80	70-130	2	25	
Trihalomethanes (Total)	40.8		mg/L							
Vinyl Acetate	12.0		ug/L	10.00		120	70-130	2	25	
Vinyl Chloride	9.24		ug/L	10.00		92	70-130	7	25	
Xylene O	9.49		ug/L	10.00		95	70-130	3	25	
Xylene P,M	19.0		ug/L	20.00		95	70-130	0.8	25	
Xylenes (Total)	28.5		mg/L							
Surrogate: 1,2-Dichloroethane-d4	0.0227		mg/L	0.02500		91	70-130			
Surrogate: 4-Bromofluorobenzene	0.0231		mg/L	0.02500		92	70-130			
Surrogate: Dibromofluoromethane	0.0254		mg/L	0.02500		102	70-130			
Surrogate: Toluene-d8	0.0231		mg/L	0.02500		92	70-130			

Matrix Spike Source: 1507338-04

1,1,1,2-Tetrachloroethane	11.2		ug/L	10.00	ND	112	70-130			
1,1,1-Trichloroethane	10.7		ug/L	10.00	0.110	106	70-130			
1,1,2,2-Tetrachloroethane	9.73		ug/L	10.00	ND	97	70-130			
1,1,2-Trichloroethane	9.20		ug/L	10.00	ND	92	70-130			
1,1-Dichloroethane	8.92		ug/L	10.00	ND	89	70-130			
1,1-Dichloroethene	10.7		ug/L	10.00	2.55	81	70-130			
1,1-Dichloropropene	8.14		ug/L	10.00	ND	81	70-130			
1,2,3-Trichlorobenzene	7.74		ug/L	10.00	ND	77	70-130			
1,2,3-Trichloropropane	8.62		ug/L	10.00	ND	86	70-130			
1,2,4-Trichlorobenzene	7.33		ug/L	10.00	ND	73	70-130			
1,2,4-Trimethylbenzene	8.65		ug/L	10.00	ND	86	70-130			
1,2-Dibromo-3-Chloropropane	11.2		ug/L	10.00	ND	112	70-130			
1,2-Dibromoethane	9.60		ug/L	10.00	ND	96	70-130			
1,2-Dichlorobenzene	8.78		ug/L	10.00	ND	88	70-130			
1,2-Dichloroethane	9.71		ug/L	10.00	ND	97	70-130			
1,2-Dichloropropane	13.0		ug/L	10.00	ND	130	70-130			
1,3,5-Trimethylbenzene	9.30		ug/L	10.00	ND	93	70-130			
1,3-Dichlorobenzene	9.12		ug/L	10.00	ND	91	70-130			
1,3-Dichloropropane	9.94		ug/L	10.00	ND	99	70-130			
1,4-Dichlorobenzene	8.94		ug/L	10.00	ND	89	70-130			
1,4-Dioxane - Screen	191		ug/L	200.0	ND	96	0-332			
1-Chlorohexane	7.96		ug/L	10.00	ND	80	70-130			
2,2-Dichloropropane	8.99		ug/L	10.00	ND	90	70-130			
2-Butanone	46.1		ug/L	50.00	ND	92	70-130			
2-Chlorotoluene	8.94		ug/L	10.00	ND	89	70-130			
2-Hexanone	43.9		ug/L	50.00	ND	88	70-130			



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham - Groundwater

ESS Laboratory Work Order: 1507338

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8260B Volatile Organic Compounds

Batch CG51636 - 5030B

4-Chlorotoluene	9.12		ug/L	10.00	ND	91	70-130			
4-Isopropyltoluene	8.64		ug/L	10.00	ND	86	70-130			
4-Methyl-2-Pentanone	47.0		ug/L	50.00	ND	94	70-130			
Acetone	45.3		ug/L	50.00	ND	91	70-130			
Benzene	9.23		ug/L	10.00	ND	92	70-130			
Bromobenzene	9.07		ug/L	10.00	ND	91	70-130			
Bromochloromethane	9.81		ug/L	10.00	ND	98	70-130			
Bromodichloromethane	9.89		ug/L	10.00	ND	99	70-130			
Bromoform	12.3		ug/L	10.00	ND	123	70-130			
Bromomethane	6.80		ug/L	10.00	ND	68	70-130			M-
Carbon Disulfide	9.09		ug/L	10.00	ND	91	70-130			
Carbon Tetrachloride	12.0		ug/L	10.00	ND	120	70-130			
Chlorobenzene	9.31		ug/L	10.00	ND	93	70-130			
Chloroethane	8.72		ug/L	10.00	ND	87	70-130			
Chloroform	9.62		ug/L	10.00	0.440	92	70-130			
Chloromethane	8.96		ug/L	10.00	ND	90	70-130			
cis-1,2-Dichloroethene	45.4		ug/L	10.00	50.6	NR	70-130			MT
cis-1,3-Dichloropropene	9.69		ug/L	10.00	ND	97	70-130			
Dibromochloromethane	11.1		ug/L	10.00	ND	111	70-130			
Dibromomethane	9.93		ug/L	10.00	ND	99	70-130			
Dichlorodifluoromethane	8.21		ug/L	10.00	ND	82	70-130			
Diethyl Ether	8.96		ug/L	10.00	ND	90	70-130			
Di-isopropyl ether	8.14		ug/L	10.00	ND	81	70-130			
Ethyl tertiary-butyl ether	8.42		ug/L	10.00	ND	84	70-130			
Ethylbenzene	9.06		ug/L	10.00	ND	91	70-130			
Hexachlorobutadiene	8.99		ug/L	10.00	ND	90	70-130			
Hexachloroethane	13.0		ug/L	10.00	ND	130	70-130			
Isopropylbenzene	8.69		ug/L	10.00	ND	87	70-130			
Methyl tert-Butyl Ether	8.45		ug/L	10.00	ND	84	70-130			
Methylene Chloride	9.35		ug/L	10.00	ND	94	70-130			
Naphthalene	7.00		ug/L	10.00	ND	70	70-130			
n-Butylbenzene	7.20		ug/L	10.00	ND	72	70-130			
n-Propylbenzene	8.77		ug/L	10.00	ND	88	70-130			
sec-Butylbenzene	8.93		ug/L	10.00	ND	89	70-130			
Styrene	8.47		ug/L	10.00	ND	85	70-130			
tert-Butylbenzene	8.71		ug/L	10.00	ND	87	70-130			
Tertiary-amyl methyl ether	7.47		ug/L	10.00	ND	75	70-130			
Tetrachloroethene	9.39		ug/L	10.00	1.70	77	70-130			
Tetrahydrofuran	8.71		ug/L	10.00	ND	87	70-130			
Toluene	9.88		ug/L	10.00	ND	99	70-130			
trans-1,2-Dichloroethene	9.41		ug/L	10.00	1.50	79	70-130			
trans-1,3-Dichloropropene	8.91		ug/L	10.00	ND	89	70-130			
Trichloroethene	661		ug/L	10.00	826	NR	70-130			MT
Trichlorofluoromethane	8.68		ug/L	10.00	0.210	85	70-130			
Trihalomethanes (Total)	42.8		mg/L							



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham - Groundwater

ESS Laboratory Work Order: 1507338

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8260B Volatile Organic Compounds

Batch CG51636 - 5030B

Vinyl Acetate	10.1		ug/L	10.00	ND	101	70-130			
Vinyl Chloride	11.8		ug/L	10.00	3.32	85	70-130			
Xylene O	9.63		ug/L	10.00	ND	96	70-130			
Xylene P,M	19.1		ug/L	20.00	ND	95	70-130			
Xylenes (Total)	28.7		mg/L							
Surrogate: 1,2-Dichloroethane-d4	0.0236		mg/L	0.02500		95	70-130			
Surrogate: 4-Bromofluorobenzene	0.0236		mg/L	0.02500		94	70-130			
Surrogate: Dibromofluoromethane	0.0260		mg/L	0.02500		104	70-130			
Surrogate: Toluene-d8	0.0232		mg/L	0.02500		93	70-130			

Matrix Spike Dup Source: 1507338-04

1,1,1,2-Tetrachloroethane	10.9		ug/L	10.00	ND	109	70-130	3	30	
1,1,1-Trichloroethane	10.8		ug/L	10.00	0.110	107	70-130	0.7	30	
1,1,2,2-Tetrachloroethane	10.4		ug/L	10.00	ND	104	70-130	6	30	
1,1,2-Trichloroethane	9.65		ug/L	10.00	ND	96	70-130	5	30	
1,1-Dichloroethane	9.13		ug/L	10.00	ND	91	70-130	2	30	
1,1-Dichloroethene	10.8		ug/L	10.00	2.55	83	70-130	2	30	
1,1-Dichloropropene	8.39		ug/L	10.00	ND	84	70-130	3	30	
1,2,3-Trichlorobenzene	8.52		ug/L	10.00	ND	85	70-130	10	30	
1,2,3-Trichloropropane	9.07		ug/L	10.00	ND	91	70-130	5	30	
1,2,4-Trichlorobenzene	8.19		ug/L	10.00	ND	82	70-130	11	30	
1,2,4-Trimethylbenzene	8.99		ug/L	10.00	ND	90	70-130	4	30	
1,2-Dibromo-3-Chloropropane	12.7		ug/L	10.00	ND	127	70-130	12	30	
1,2-Dibromoethane	10.0		ug/L	10.00	ND	100	70-130	4	30	
1,2-Dichlorobenzene	9.23		ug/L	10.00	ND	92	70-130	5	30	
1,2-Dichloroethane	9.92		ug/L	10.00	ND	99	70-130	2	30	
1,2-Dichloropropane	13.0		ug/L	10.00	ND	130	70-130	0.5	30	
1,3,5-Trimethylbenzene	9.79		ug/L	10.00	ND	98	70-130	5	30	
1,3-Dichlorobenzene	9.46		ug/L	10.00	ND	95	70-130	4	30	
1,3-Dichloropropane	10.5		ug/L	10.00	ND	105	70-130	6	30	
1,4-Dichlorobenzene	9.32		ug/L	10.00	ND	93	70-130	4	30	
1,4-Dioxane - Screen	203		ug/L	200.0	ND	101	0-332	6	200	
1-Chlorohexane	8.22		ug/L	10.00	ND	82	70-130	3	30	
2,2-Dichloropropane	9.09		ug/L	10.00	ND	91	70-130	1	30	
2-Butanone	48.2		ug/L	50.00	ND	96	70-130	4	30	
2-Chlorotoluene	9.17		ug/L	10.00	ND	92	70-130	3	30	
2-Hexanone	49.0		ug/L	50.00	ND	98	70-130	11	30	
4-Chlorotoluene	9.44		ug/L	10.00	ND	94	70-130	3	30	
4-Isopropyltoluene	9.13		ug/L	10.00	ND	91	70-130	6	30	
4-Methyl-2-Pentanone	49.2		ug/L	50.00	ND	98	70-130	5	30	
Acetone	47.8		ug/L	50.00	ND	96	70-130	5	30	
Benzene	9.47		ug/L	10.00	ND	95	70-130	3	30	
Bromobenzene	9.24		ug/L	10.00	ND	92	70-130	2	30	
Bromochloromethane	10.4		ug/L	10.00	ND	104	70-130	6	30	
Bromodichloromethane	10.3		ug/L	10.00	ND	103	70-130	4	30	
Bromoform	12.6		ug/L	10.00	ND	126	70-130	3	30	



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham - Groundwater

ESS Laboratory Work Order: 1507338

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8260B Volatile Organic Compounds										
Batch CG51636 - 5030B										
Bromomethane	8.22		ug/L	10.00	ND	82	70-130	19	30	
Carbon Disulfide	9.26		ug/L	10.00	ND	93	70-130	2	30	
Carbon Tetrachloride	11.7		ug/L	10.00	ND	117	70-130	2	30	
Chlorobenzene	9.68		ug/L	10.00	ND	97	70-130	4	30	
Chloroethane	9.10		ug/L	10.00	ND	91	70-130	4	30	
Chloroform	9.91		ug/L	10.00	0.440	95	70-130	3	30	
Chloromethane	9.54		ug/L	10.00	ND	95	70-130	6	30	
cis-1,2-Dichloroethene	46.6		ug/L	10.00	50.6	NR	70-130	NR	30	MT
cis-1,3-Dichloropropene	9.91		ug/L	10.00	ND	99	70-130	2	30	
Dibromochloromethane	11.6		ug/L	10.00	ND	116	70-130	5	30	
Dibromomethane	9.93		ug/L	10.00	ND	99	70-130	0	30	
Dichlorodifluoromethane	8.18		ug/L	10.00	ND	82	70-130	0.4	30	
Diethyl Ether	9.24		ug/L	10.00	ND	92	70-130	3	30	
Di-isopropyl ether	8.52		ug/L	10.00	ND	85	70-130	5	30	
Ethyl tertiary-butyl ether	8.65		ug/L	10.00	ND	86	70-130	3	30	
Ethylbenzene	9.17		ug/L	10.00	ND	92	70-130	1	30	
Hexachlorobutadiene	9.86		ug/L	10.00	ND	99	70-130	9	30	
Hexachloroethane	13.1		ug/L	10.00	ND	131	70-130	1	30	M+
Isopropylbenzene	8.96		ug/L	10.00	ND	90	70-130	3	30	
Methyl tert-Butyl Ether	8.80		ug/L	10.00	ND	88	70-130	4	30	
Methylene Chloride	9.70		ug/L	10.00	ND	97	70-130	4	30	
Naphthalene	8.61		ug/L	10.00	ND	86	70-130	21	30	
n-Butylbenzene	8.27		ug/L	10.00	ND	83	70-130	14	30	
n-Propylbenzene	9.10		ug/L	10.00	ND	91	70-130	4	30	
sec-Butylbenzene	9.30		ug/L	10.00	ND	93	70-130	4	30	
Styrene	8.82		ug/L	10.00	ND	88	70-130	4	30	
tert-Butylbenzene	9.03		ug/L	10.00	ND	90	70-130	4	30	
Tertiary-amyl methyl ether	7.88		ug/L	10.00	ND	79	70-130	5	30	
Tetrachloroethene	9.31		ug/L	10.00	1.70	76	70-130	1	30	
Tetrahydrofuran	9.19		ug/L	10.00	ND	92	70-130	5	30	
Toluene	10.1		ug/L	10.00	ND	101	70-130	2	30	
trans-1,2-Dichloroethene	9.44		ug/L	10.00	1.50	79	70-130	0.4	30	
trans-1,3-Dichloropropene	9.15		ug/L	10.00	ND	92	70-130	3	30	
Trichloroethene	667		ug/L	10.00	826	NR	70-130	NR	30	MT
Trichlorofluoromethane	8.73		ug/L	10.00	0.210	85	70-130	0.6	30	
Trihalomethanes (Total)	44.5		mg/L							
Vinyl Acetate	10.0		ug/L	10.00	ND	100	70-130	0.9	30	
Vinyl Chloride	12.0		ug/L	10.00	3.32	87	70-130	2	30	
Xylene O	9.85		ug/L	10.00	ND	98	70-130	2	30	
Xylene P,M	19.4		ug/L	20.00	ND	97	70-130	2	30	
Xylenes (Total)	29.2		mg/L							
Surrogate: 1,2-Dichloroethane-d4	0.0238		mg/L	0.02500		95	70-130			
Surrogate: 4-Bromofluorobenzene	0.0234		mg/L	0.02500		94	70-130			
Surrogate: Dibromofluoromethane	0.0261		mg/L	0.02500		104	70-130			
Surrogate: Toluene-d8	0.0235		mg/L	0.02500		94	70-130			



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham - Groundwater

ESS Laboratory Work Order: 1507338

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8260B Volatile Organic Compounds

Batch CG51742 - 5030B

Blank

1,1,1,2-Tetrachloroethane	ND	0.0010	mg/L							
1,1,1-Trichloroethane	ND	0.0010	mg/L							
1,1,2,2-Tetrachloroethane	ND	0.0005	mg/L							
1,1,2-Trichloroethane	ND	0.0010	mg/L							
1,1-Dichloroethane	ND	0.0010	mg/L							
1,1-Dichloroethene	ND	0.0010	mg/L							
1,1-Dichloropropene	ND	0.0020	mg/L							
1,2,3-Trichlorobenzene	ND	0.0010	mg/L							
1,2,3-Trichloropropane	ND	0.0010	mg/L							
1,2,4-Trichlorobenzene	ND	0.0010	mg/L							
1,2,4-Trimethylbenzene	ND	0.0010	mg/L							
1,2-Dibromo-3-Chloropropane	ND	0.0050	mg/L							
1,2-Dibromoethane	ND	0.0010	mg/L							
1,2-Dichlorobenzene	ND	0.0010	mg/L							
1,2-Dichloroethane	ND	0.0010	mg/L							
1,2-Dichloropropane	ND	0.0010	mg/L							
1,3,5-Trimethylbenzene	ND	0.0010	mg/L							
1,3-Dichlorobenzene	ND	0.0010	mg/L							
1,3-Dichloropropane	ND	0.0010	mg/L							
1,4-Dichlorobenzene	ND	0.0010	mg/L							
1,4-Dioxane - Screen	ND	0.500	mg/L							
1-Chlorohexane	ND	0.0010	mg/L							
2,2-Dichloropropane	ND	0.0010	mg/L							
2-Butanone	ND	0.0100	mg/L							
2-Chlorotoluene	ND	0.0010	mg/L							
2-Hexanone	ND	0.0100	mg/L							
4-Chlorotoluene	ND	0.0010	mg/L							
4-Isopropyltoluene	ND	0.0010	mg/L							
4-Methyl-2-Pentanone	ND	0.0250	mg/L							
Acetone	ND	0.0100	mg/L							
Benzene	ND	0.0010	mg/L							
Bromobenzene	ND	0.0020	mg/L							
Bromochloromethane	ND	0.0010	mg/L							
Bromodichloromethane	ND	0.0006	mg/L							
Bromoform	ND	0.0010	mg/L							
Bromomethane	ND	0.0020	mg/L							
Carbon Disulfide	ND	0.0010	mg/L							
Carbon Tetrachloride	ND	0.0010	mg/L							
Chlorobenzene	ND	0.0010	mg/L							
Chloroethane	ND	0.0020	mg/L							
Chloroform	ND	0.0010	mg/L							
Chloromethane	ND	0.0020	mg/L							
cis-1,2-Dichloroethene	ND	0.0010	mg/L							
cis-1,3-Dichloropropene	ND	0.0004	mg/L							



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham - Groundwater

ESS Laboratory Work Order: 1507338

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8260B Volatile Organic Compounds

Batch CG51742 - 5030B

Dibromochloromethane	ND	0.0010	mg/L							
Dibromomethane	ND	0.0010	mg/L							
Dichlorodifluoromethane	ND	0.0020	mg/L							
Diethyl Ether	ND	0.0010	mg/L							
Di-isopropyl ether	ND	0.0010	mg/L							
Ethyl tertiary-butyl ether	ND	0.0010	mg/L							
Ethylbenzene	ND	0.0010	mg/L							
Hexachlorobutadiene	ND	0.0006	mg/L							
Hexachloroethane	ND	0.0010	mg/L							
Isopropylbenzene	ND	0.0010	mg/L							
Methyl tert-Butyl Ether	ND	0.0010	mg/L							
Methylene Chloride	ND	0.0020	mg/L							
Naphthalene	ND	0.0010	mg/L							
n-Butylbenzene	ND	0.0010	mg/L							
n-Propylbenzene	ND	0.0010	mg/L							
sec-Butylbenzene	ND	0.0010	mg/L							
Styrene	ND	0.0010	mg/L							
tert-Butylbenzene	ND	0.0010	mg/L							
Tertiary-amyl methyl ether	ND	0.0010	mg/L							
Tetrachloroethene	ND	0.0010	mg/L							
Tetrahydrofuran	ND	0.0050	mg/L							
Toluene	ND	0.0010	mg/L							
trans-1,2-Dichloroethene	ND	0.0010	mg/L							
trans-1,3-Dichloropropene	ND	0.0004	mg/L							
Trichloroethene	ND	0.0010	mg/L							
Trichlorofluoromethane	ND	0.0010	mg/L							
Trihalomethanes (Total)	ND	0.0010	mg/L							
Vinyl Acetate	ND	0.0050	mg/L							
Vinyl Chloride	ND	0.0010	mg/L							
Xylene O	ND	0.0010	mg/L							
Xylene P,M	ND	0.0020	mg/L							
Xylenes (Total)	ND	0.0020	mg/L							
Surrogate: 1,2-Dichloroethane-d4	0.0218		mg/L	0.02500		87	70-130			
Surrogate: 4-Bromofluorobenzene	0.0195		mg/L	0.02500		78	70-130			
Surrogate: Dibromofluoromethane	0.0236		mg/L	0.02500		94	70-130			
Surrogate: Toluene-d8	0.0188		mg/L	0.02500		75	70-130			

LCS

1,1,1,2-Tetrachloroethane	11.2		ug/L	10.00		112	70-130			
1,1,1-Trichloroethane	10.4		ug/L	10.00		104	70-130			
1,1,2,2-Tetrachloroethane	9.96		ug/L	10.00		100	70-130			
1,1,2-Trichloroethane	9.15		ug/L	10.00		92	70-130			
1,1-Dichloroethane	8.78		ug/L	10.00		88	70-130			
1,1-Dichloroethene	8.65		ug/L	10.00		86	70-130			
1,1-Dichloropropene	8.74		ug/L	10.00		87	70-130			
1,2,3-Trichlorobenzene	9.13		ug/L	10.00		91	70-130			



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham - Groundwater

ESS Laboratory Work Order: 1507338

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8260B Volatile Organic Compounds

Batch CG51742 - 5030B

1,2,3-Trichloropropane	8.89		ug/L	10.00		89	70-130			
1,2,4-Trichlorobenzene	8.85		ug/L	10.00		88	70-130			
1,2,4-Trimethylbenzene	9.42		ug/L	10.00		94	70-130			
1,2-Dibromo-3-Chloropropane	11.4		ug/L	10.00		114	70-130			
1,2-Dibromoethane	9.78		ug/L	10.00		98	70-130			
1,2-Dichlorobenzene	9.04		ug/L	10.00		90	70-130			
1,2-Dichloroethane	9.61		ug/L	10.00		96	70-130			
1,2-Dichloropropane	8.96		ug/L	10.00		90	70-130			
1,3,5-Trimethylbenzene	9.75		ug/L	10.00		98	70-130			
1,3-Dichlorobenzene	9.63		ug/L	10.00		96	70-130			
1,3-Dichloropropane	10.3		ug/L	10.00		103	70-130			
1,4-Dichlorobenzene	9.31		ug/L	10.00		93	70-130			
1,4-Dioxane - Screen	190		ug/L	200.0		95	0-332			
1-Chlorohexane	8.13		ug/L	10.00		81	70-130			
2,2-Dichloropropane	10.1		ug/L	10.00		101	70-130			
2-Butanone	47.2		ug/L	50.00		94	70-130			
2-Chlorotoluene	9.26		ug/L	10.00		93	70-130			
2-Hexanone	48.7		ug/L	50.00		97	70-130			
4-Chlorotoluene	9.43		ug/L	10.00		94	70-130			
4-Isopropyltoluene	9.37		ug/L	10.00		94	70-130			
4-Methyl-2-Pentanone	46.6		ug/L	50.00		93	70-130			
Acetone	54.4		ug/L	50.00		109	70-130			
Benzene	9.24		ug/L	10.00		92	70-130			
Bromobenzene	9.27		ug/L	10.00		93	70-130			
Bromochloromethane	9.78		ug/L	10.00		98	70-130			
Bromodichloromethane	9.63		ug/L	10.00		96	70-130			
Bromoform	12.3		ug/L	10.00		123	70-130			
Bromomethane	10.5		ug/L	10.00		105	70-130			
Carbon Disulfide	9.04		ug/L	10.00		90	70-130			
Carbon Tetrachloride	11.5		ug/L	10.00		115	70-130			
Chlorobenzene	9.50		ug/L	10.00		95	70-130			
Chloroethane	8.84		ug/L	10.00		88	70-130			
Chloroform	9.20		ug/L	10.00		92	70-130			
Chloromethane	9.83		ug/L	10.00		98	70-130			
cis-1,2-Dichloroethene	9.49		ug/L	10.00		95	70-130			
cis-1,3-Dichloropropene	9.63		ug/L	10.00		96	70-130			
Dibromochloromethane	11.5		ug/L	10.00		115	70-130			
Dibromomethane	9.61		ug/L	10.00		96	70-130			
Dichlorodifluoromethane	7.87		ug/L	10.00		79	70-130			
Diethyl Ether	9.15		ug/L	10.00		92	70-130			
Di-isopropyl ether	8.28		ug/L	10.00		83	70-130			
Ethyl tertiary-butyl ether	8.35		ug/L	10.00		84	70-130			
Ethylbenzene	9.28		ug/L	10.00		93	70-130			
Hexachlorobutadiene	10.6		ug/L	10.00		106	70-130			
Hexachloroethane	13.2		ug/L	10.00		132	70-130			M+



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham - Groundwater

ESS Laboratory Work Order: 1507338

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8260B Volatile Organic Compounds

Batch CG51742 - 5030B

Isopropylbenzene	8.91		ug/L	10.00		89	70-130			
Methyl tert-Butyl Ether	8.55		ug/L	10.00		86	70-130			
Methylene Chloride	9.42		ug/L	10.00		94	70-130			
Naphthalene	9.86		ug/L	10.00		99	70-130			
n-Butylbenzene	8.91		ug/L	10.00		89	70-130			
n-Propylbenzene	9.13		ug/L	10.00		91	70-130			
sec-Butylbenzene	9.39		ug/L	10.00		94	70-130			
Styrene	9.14		ug/L	10.00		91	70-130			
tert-Butylbenzene	8.96		ug/L	10.00		90	70-130			
Tertiary-amyl methyl ether	7.80		ug/L	10.00		78	70-130			
Tetrachloroethene	8.33		ug/L	10.00		83	70-130			
Tetrahydrofuran	9.32		ug/L	10.00		93	70-130			
Toluene	9.61		ug/L	10.00		96	70-130			
trans-1,2-Dichloroethene	8.46		ug/L	10.00		85	70-130			
trans-1,3-Dichloropropene	8.96		ug/L	10.00		90	70-130			
Trichloroethene	8.66		ug/L	10.00		87	70-130			
Trichlorofluoromethane	8.16		ug/L	10.00		82	70-130			
Trihalomethanes (Total)	42.6		mg/L							
Vinyl Acetate	12.5		ug/L	10.00		125	70-130			
Vinyl Chloride	9.82		ug/L	10.00		98	70-130			
Xylene O	10.0		ug/L	10.00		100	70-130			
Xylene P,M	19.6		ug/L	20.00		98	70-130			
Xylenes (Total)	29.7		mg/L							
Surrogate: 1,2-Dichloroethane-d4	0.0230		mg/L	0.02500		92	70-130			
Surrogate: 4-Bromofluorobenzene	0.0244		mg/L	0.02500		97	70-130			
Surrogate: Dibromofluoromethane	0.0257		mg/L	0.02500		103	70-130			
Surrogate: Toluene-d8	0.0237		mg/L	0.02500		95	70-130			

LCS Dup

1,1,1,2-Tetrachloroethane	11.0		ug/L	10.00		110	70-130	2	25	
1,1,1-Trichloroethane	10.4		ug/L	10.00		104	70-130	0.5	25	
1,1,2,2-Tetrachloroethane	9.71		ug/L	10.00		97	70-130	3	25	
1,1,2-Trichloroethane	8.96		ug/L	10.00		90	70-130	2	25	
1,1-Dichloroethane	8.95		ug/L	10.00		90	70-130	2	25	
1,1-Dichloroethene	8.64		ug/L	10.00		86	70-130	0.1	25	
1,1-Dichloropropene	8.49		ug/L	10.00		85	70-130	3	25	
1,2,3-Trichlorobenzene	8.70		ug/L	10.00		87	70-130	5	25	
1,2,3-Trichloropropane	8.86		ug/L	10.00		89	70-130	0.3	25	
1,2,4-Trichlorobenzene	8.40		ug/L	10.00		84	70-130	5	25	
1,2,4-Trimethylbenzene	9.06		ug/L	10.00		91	70-130	4	25	
1,2-Dibromo-3-Chloropropane	11.9		ug/L	10.00		119	70-130	4	25	
1,2-Dibromoethane	9.52		ug/L	10.00		95	70-130	3	25	
1,2-Dichlorobenzene	9.20		ug/L	10.00		92	70-130	2	25	
1,2-Dichloroethane	9.46		ug/L	10.00		95	70-130	2	25	
1,2-Dichloropropane	8.94		ug/L	10.00		89	70-130	0.2	25	
1,3,5-Trimethylbenzene	9.65		ug/L	10.00		96	70-130	1	25	



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham - Groundwater

ESS Laboratory Work Order: 1507338

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8260B Volatile Organic Compounds

Batch CG51742 - 5030B

1,3-Dichlorobenzene	9.15		ug/L	10.00		92	70-130	5	25	
1,3-Dichloropropane	9.99		ug/L	10.00		100	70-130	3	25	
1,4-Dichlorobenzene	9.36		ug/L	10.00		94	70-130	0.5	25	
1,4-Dioxane - Screen	182		ug/L	200.0		91	0-332	4	200	
1-Chlorohexane	8.02		ug/L	10.00		80	70-130	1	25	
2,2-Dichloropropane	10.2		ug/L	10.00		102	70-130	1	25	
2-Butanone	48.3		ug/L	50.00		97	70-130	2	25	
2-Chlorotoluene	9.15		ug/L	10.00		92	70-130	1	25	
2-Hexanone	46.2		ug/L	50.00		92	70-130	5	25	
4-Chlorotoluene	9.19		ug/L	10.00		92	70-130	3	25	
4-Isopropyltoluene	9.12		ug/L	10.00		91	70-130	3	25	
4-Methyl-2-Pentanone	45.7		ug/L	50.00		91	70-130	2	25	
Acetone	51.3		ug/L	50.00		103	70-130	6	25	
Benzene	9.16		ug/L	10.00		92	70-130	0.9	25	
Bromobenzene	9.16		ug/L	10.00		92	70-130	1	25	
Bromochloromethane	9.91		ug/L	10.00		99	70-130	1	25	
Bromodichloromethane	9.54		ug/L	10.00		95	70-130	0.9	25	
Bromoform	12.1		ug/L	10.00		121	70-130	1	25	
Bromomethane	10.4		ug/L	10.00		104	70-130	1	25	
Carbon Disulfide	8.98		ug/L	10.00		90	70-130	0.7	25	
Carbon Tetrachloride	11.6		ug/L	10.00		116	70-130	0.3	25	
Chlorobenzene	9.33		ug/L	10.00		93	70-130	2	25	
Chloroethane	8.68		ug/L	10.00		87	70-130	2	25	
Chloroform	9.12		ug/L	10.00		91	70-130	0.9	25	
Chloromethane	9.22		ug/L	10.00		92	70-130	6	25	
cis-1,2-Dichloroethene	9.28		ug/L	10.00		93	70-130	2	25	
cis-1,3-Dichloropropene	9.66		ug/L	10.00		97	70-130	0.3	25	
Dibromochloromethane	11.2		ug/L	10.00		112	70-130	3	25	
Dibromomethane	9.70		ug/L	10.00		97	70-130	0.9	25	
Dichlorodifluoromethane	7.64		ug/L	10.00		76	70-130	3	25	
Diethyl Ether	9.29		ug/L	10.00		93	70-130	2	25	
Di-isopropyl ether	8.34		ug/L	10.00		83	70-130	0.7	25	
Ethyl tertiary-butyl ether	8.37		ug/L	10.00		84	70-130	0.2	25	
Ethylbenzene	9.07		ug/L	10.00		91	70-130	2	25	
Hexachlorobutadiene	10.1		ug/L	10.00		101	70-130	5	25	
Hexachloroethane	13.0		ug/L	10.00		130	70-130	2	25	
Isopropylbenzene	8.81		ug/L	10.00		88	70-130	1	25	
Methyl tert-Butyl Ether	8.60		ug/L	10.00		86	70-130	0.6	25	
Methylene Chloride	9.40		ug/L	10.00		94	70-130	0.2	25	
Naphthalene	9.12		ug/L	10.00		91	70-130	8	25	
n-Butylbenzene	8.43		ug/L	10.00		84	70-130	6	25	
n-Propylbenzene	8.95		ug/L	10.00		90	70-130	2	25	
sec-Butylbenzene	9.20		ug/L	10.00		92	70-130	2	25	
Styrene	8.81		ug/L	10.00		88	70-130	4	25	
tert-Butylbenzene	8.99		ug/L	10.00		90	70-130	0.3	25	



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
 Client Project ID: Textron Gorham - Groundwater

ESS Laboratory Work Order: 1507338

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8260B Volatile Organic Compounds

Batch CG51742 - 5030B

Tertiary-amyl methyl ether	7.83		ug/L	10.00		78	70-130	0.4	25	
Tetrachloroethene	7.92		ug/L	10.00		79	70-130	5	25	
Tetrahydrofuran	9.17		ug/L	10.00		92	70-130	2	25	
Toluene	9.34		ug/L	10.00		93	70-130	3	25	
trans-1,2-Dichloroethene	8.45		ug/L	10.00		84	70-130	0.1	25	
trans-1,3-Dichloropropene	8.93		ug/L	10.00		89	70-130	0.3	25	
Trichloroethene	8.85		ug/L	10.00		88	70-130	2	25	
Trichlorofluoromethane	8.17		ug/L	10.00		82	70-130	0.1	25	
Trihalomethanes (Total)	42.0		mg/L							
Vinyl Acetate	12.4		ug/L	10.00		124	70-130	0.4	25	
Vinyl Chloride	9.50		ug/L	10.00		95	70-130	3	25	
Xylene O	9.81		ug/L	10.00		98	70-130	2	25	
Xylene P,M	19.3		ug/L	20.00		96	70-130	2	25	
Xylenes (Total)	29.1		mg/L							
Surrogate: 1,2-Dichloroethane-d4	0.0233		mg/L	0.02500		93	70-130			
Surrogate: 4-Bromofluorobenzene	0.0236		mg/L	0.02500		94	70-130			
Surrogate: Dibromofluoromethane	0.0260		mg/L	0.02500		104	70-130			
Surrogate: Toluene-d8	0.0232		mg/L	0.02500		93	70-130			



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
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ESS Laboratory Work Order: 1507338

Notes and Definitions

- U Analyte included in the analysis, but not detected
- MT Due to high target values, matrix spike compound(s) is masked (MT).
- M+ Matrix Spike recovery is above upper control limit (M+).
- M- Matrix Spike recovery is below lower control limit (M-).
- D Diluted.
- C+ Continuing Calibration recovery is above upper control limit (C+).
- B+ Blank Spike recovery is above upper control limit (B+).
- ND Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- MDL Method Detection Limit
- MRL Method Reporting Limit
- LOD Limit of Detection
- LOQ Limit of Quantitation
- DL Detection Limit
- I/V Initial Volume
- F/V Final Volume
- § Subcontracted analysis; see attached report
- 1 Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
- 2 Range result excludes concentrations of target analytes eluting in that range.
- 3 Range result excludes the concentration of the C9-C10 aromatic range.
- Avg Results reported as a mathematical average.
- NR No Recovery
- [CALC] Calculated Analyte
- SUB Subcontracted analysis; see attached report



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham - Groundwater

ESS Laboratory Work Order: 1507338

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Rhode Island Potable and Non Potable Water: LAI00179

<http://www.health.ri.gov/find/labs/analytical/ESS.pdf>

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750

http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutOfStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI00002

<http://www.maine.gov/dhhs/mecdc/environmental-health/water/dwp-services/labcert/documents/AllLabs.xls>

Massachusetts Potable and Non Potable Water: M-RI002

<http://public.dep.state.ma.us/Labcert/Labcert.aspx>

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424

<http://des.nh.gov/organization/divisions/water/dwgb/nhelap/index.htm>

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313

<http://www.wadsworth.org/labcert/elap/comm.html>

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006

http://datamine2.state.nj.us/DEP_OPRA/OpraMain/pi_main?mode=pi_by_site&sort_order=PI_NAMEA&Select+a+Site:=58715

United States Department of Agriculture Soil Permit: P330-12-00139

Pennsylvania: 68-01752

http://www.depweb.state.pa.us/portal/server.pt/community/labs/13780/laboratory_accreditation_program/590095

Sample and Cooler Receipt Checklist

Client: AMEC Earth and Environmental
Client Project ID: _____
Shipped/Delivered Via: Client

ESS Project ID: 15070338
Date Project Due: 7/22/15
Days For Project: 5 Day

Items to be checked upon receipt:

- 1. Air Bill Manifest Present? * No
Air No.:
 - 2. Were Custody Seals Present? No
 - 3. Were Custody Seals Intact? N/A
 - 4. Is Radiation count < 100 CPM? Yes
 - 5. Is a cooler present? Yes
Cooler Temp: 1.6
Iced With: Ice
 - 6. Was COC included with samples? Yes
 - 7. Was COC signed and dated by client? Yes
 - 8. Does the COC match the sample Yes
 - 9. Is COC complete and correct? Yes
 - 10. Are the samples properly preserved? Yes
 - 11. Proper sample containers used? Yes
 - 12. Any air bubbles in the VOA vials? No
 - 13. Holding times exceeded? No
 - 14. Sufficient sample volumes? Yes
 - 15. Any Subcontracting needed? No
 - 16. Are ESS labels on correct containers? Yes|No
 - 17. Were samples received intact? Yes|No
- ESS Sample IDs: _____
Sub Lab: _____
Analysis: _____
TAT: _____

18. Was there need to call project manager to discuss status? If yes, please explain.

REC 3 EXTRA VOA VIALS LABEL SITE ID MW-241 JL 7/15/15
Did not add to COC - Samples in hold fridge on 7/15/15
added MW-241 per client on 7/15/15

Who was called?: _____ By whom? _____

Sample Number	Properly Preserved	Container Type	# of Containers	Preservative
1	Yes	40 ml - VOA	3	HCL
2	Yes	40 ml - VOA	3	HCL
3	Yes	40 ml - VOA	3	HCL
4	Yes	40 ml - VOA	8	HCL
5	Yes	40 ml - VOA	3	HCL
6	Yes	40 ml - VOA	3	HCL
7	Yes	40 ml - VOA	2	HCL

Completed By: [Signature]

Date/Time: 7/15/15 1336

Reviewed By: [Signature]

Date/Time: 7/15/15 1350

8 Y 40ml-VOA 3 HCL

ESS Laboratory

Division of Thielsch Engineering, Inc.

185 Frances Avenue, Cranston RI 02910-2211
 Tel. (401)461-7181 Fax (401)461-4486
 www.esslaboratory.com

CHAIN OF CUSTODY

Turn Time S Standard Other

Regulatory State: MA (R) CT NH NJ NY ME Other

Is this project for any of the following: (please circle)

MA-MCP Navy USACE CT DEP Other

Project # 3652140032

Project Name Texton Gorham

Proj. Location Providence, RI

City, State Chelmsford, MA

Zip 01824

PO # CO12206859

email: Denise.Kins@amecaw.com

Sample ID

Pres Code

of Containers

Type of Container

Vol of Container

Analysis

Analysis

Analysis

Analysis

Analysis

Analysis

Analysis

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Reporting Limits - 5:22 PM

Electronic Deliverables *Excel Access PDF

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Internal Use Only

Seals Intact Yes No NA: L

Cooler Temperature: 11.6 ICE 7/15/15

Relinquished by: (Signature, Date & Time)

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Preservation Code: 1-NP, 2-HCl, 3-H2SO4, 4-HNO3, 5-NaOH, 6-MeOH, 7-Asorbic Acid, 8-ZnAct, 9-

Sampled by: Mark Maggiora 339-927-3797

Comments: added MW-241 per client on 7/15/15

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Please fax to the laboratory all changes to Chain of Custody

Report Method Blank & Laboratory Control Sample Results

collected in accordance with MADEP CAM VIIA

By circling MA-MCP, client acknowledges samples were

Page 92 of 9



CERTIFICATE OF ANALYSIS

Denise King
AMEC Foster Wheeler
271 Mill Road
Chelmsford, MA 01824

RE: Textron Gorham - Groundwater (3652140032)
ESS Laboratory Work Order Number: 1512468

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard
Laboratory Director

REVIEWED

By ESS Laboratory at 1:51 pm, Dec 28, 2015

Analytical Summary

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with NELAC Standards, A2LA and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibrations, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.



CERTIFICATE OF ANALYSIS

Client Name: AMEC Foster Wheeler
Client Project ID: Textron Gorham - Groundwater

ESS Laboratory Work Order: 1512468

SAMPLE RECEIPT

The following samples were received on December 17, 2015 for the analyses specified on the enclosed Chain of Custody Record.

Lab Number	Sample Name	Matrix	Analysis
1512468-01	MW-FS	Ground Water	8260B
1512468-02	MW-241	Ground Water	8260B
1512468-03	MW-235S	Ground Water	8260B
1512468-04	MW-236S	Ground Water	8260B
1512468-05	DUP-01	Ground Water	8260B
1512468-06	MW-D	Ground Water	8260B
1512468-07	MW-237S	Ground Water	8260B
1512468-08	Trip Blank-01	Aqueous	8260B



CERTIFICATE OF ANALYSIS

Client Name: AMEC Foster Wheeler
Client Project ID: Textron Gorham - Groundwater

ESS Laboratory Work Order: 1512468

PROJECT NARRATIVE

8260B Volatile Organic Compounds

- CL52113-BSD1 **Relative percent difference for duplicate is outside of criteria (D+).**
Tetrahydrofuran (29% @ 25%)
- CL52113-MS1 **Matrix Spike recovery is above upper control limit (M+).**
Trichloroethene (155% @ 70-130%)
- CL52113-MS1 **Matrix Spike recovery is below lower control limit (M-).**
Bromomethane (47% @ 70-130%)
- CL52113-MS1 **Reported above the quantitation limit; Estimated value (E).**
Trichloroethene
- CL52113-MSD1 **Matrix Spike recovery is above upper control limit (M+).**
Trichloroethene (295% @ 70-130%)
- CL52113-MSD1 **Matrix Spike recovery is below lower control limit (M-).**
Bromomethane (59% @ 70-130%), Tetrachloroethene (62% @ 70-130%)
- CL52113-MSD1 **Relative percent difference for duplicate is outside of criteria (D+).**
Tetrachloroethene (32% @ 30%), Trichloroethene (62% @ 30%), Vinyl Chloride (46% @ 30%)
- CL52113-MSD1 **Reported above the quantitation limit; Estimated value (E).**
Trichloroethene

No other observations noted.

End of Project Narrative.

DATA USABILITY LINKS

- [Definitions of Quality Control Parameters](#)
- [Semivolatile Organics Internal Standard Information](#)
- [Semivolatile Organics Surrogate Information](#)
- [Volatile Organics Internal Standard Information](#)
- [Volatile Organics Surrogate Information](#)
- [EPH and VPH Alkane Lists](#)



CERTIFICATE OF ANALYSIS

Client Name: AMEC Foster Wheeler
Client Project ID: Textron Gorham - Groundwater

ESS Laboratory Work Order: 1512468

CURRENT SW-846 METHODOLOGY VERSIONS

Analytical Methods

- 1010A - Flashpoint
- 6010C - ICP
- 6020A - ICP MS
- 7010 - Graphite Furnace
- 7196A - Hexavalent Chromium
- 7470A - Aqueous Mercury
- 7471B - Solid Mercury
- 8011 - EDB/DBCP/TCP
- 8015D - GRO/DRO
- 8081B - Pesticides
- 8082A - PCB
- 8100M - TPH
- 8151A - Herbicides
- 8260B - VOA
- 8270D - SVOA
- 8270D SIM - SVOA Low Level
- 9014 - Cyanide
- 9038 - Sulfate
- 9040C - Aqueous pH
- 9045D - Solid pH (Corrosivity)
- 9050A - Specific Conductance
- 9056A - Anions (IC)
- 9060A - TOC
- 9095B - Paint Filter
- MADEP 04-1.1 - EPH / VPH

Prep Methods

- 3005A - Aqueous ICP Digestion
- 3020A - Aqueous Graphite Furnace / ICP MS Digestion
- 3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
- 3060A - Solid Hexavalent Chromium Digestion
- 3510C - Separatory Funnel Extraction
- 3520C - Liquid / Liquid Extraction
- 3540C - Manual Soxhlet Extraction
- 3541 - Automated Soxhlet Extraction
- 3546 - Microwave Extraction
- 3580A - Waste Dilution
- 5030B - Aqueous Purge and Trap
- 5030C - Aqueous Purge and Trap
- 5035 - Solid Purge and Trap

SW846 Reactivity Methods 7.3.3.2 (Reactive Cyanide) and 7.3.4.1 (Reactive Sulfide) have been withdrawn by EPA. These methods are reported per client request and are not NELAP accredited.



CERTIFICATE OF ANALYSIS

Client Name: AMEC Foster Wheeler
Client Project ID: Textron Gorham - Groundwater
Client Sample ID: MW-FS
Date Sampled: 12/16/15 09:55
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1512468
ESS Laboratory Sample ID: 1512468-01
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1,1,2-Tetrachloroethane	ND (0.0010)		8260B		1	12/18/15 15:55	CYL0296	CL52113
1,1,1-Trichloroethane	ND (0.0010)		8260B		1	12/18/15 15:55	CYL0296	CL52113
1,1,2,2-Tetrachloroethane	ND (0.0005)		8260B		1	12/18/15 15:55	CYL0296	CL52113
1,1,2-Trichloroethane	ND (0.0010)		8260B		1	12/18/15 15:55	CYL0296	CL52113
1,1-Dichloroethane	ND (0.0010)		8260B		1	12/18/15 15:55	CYL0296	CL52113
1,1-Dichloroethene	0.0013 (0.0010)		8260B		1	12/18/15 15:55	CYL0296	CL52113
1,1-Dichloropropene	ND (0.0020)		8260B		1	12/18/15 15:55	CYL0296	CL52113
1,2,3-Trichlorobenzene	ND (0.0010)		8260B		1	12/18/15 15:55	CYL0296	CL52113
1,2,3-Trichloropropane	ND (0.0010)		8260B		1	12/18/15 15:55	CYL0296	CL52113
1,2,4-Trichlorobenzene	ND (0.0010)		8260B		1	12/18/15 15:55	CYL0296	CL52113
1,2,4-Trimethylbenzene	ND (0.0010)		8260B		1	12/18/15 15:55	CYL0296	CL52113
1,2-Dibromo-3-Chloropropane	ND (0.0050)		8260B		1	12/18/15 15:55	CYL0296	CL52113
1,2-Dibromoethane	ND (0.0010)		8260B		1	12/18/15 15:55	CYL0296	CL52113
1,2-Dichlorobenzene	ND (0.0010)		8260B		1	12/18/15 15:55	CYL0296	CL52113
1,2-Dichloroethane	ND (0.0010)		8260B		1	12/18/15 15:55	CYL0296	CL52113
1,2-Dichloropropane	ND (0.0010)		8260B		1	12/18/15 15:55	CYL0296	CL52113
1,3,5-Trimethylbenzene	ND (0.0010)		8260B		1	12/18/15 15:55	CYL0296	CL52113
1,3-Dichlorobenzene	ND (0.0010)		8260B		1	12/18/15 15:55	CYL0296	CL52113
1,3-Dichloropropane	ND (0.0010)		8260B		1	12/18/15 15:55	CYL0296	CL52113
1,4-Dichlorobenzene	ND (0.0010)		8260B		1	12/18/15 15:55	CYL0296	CL52113
1,4-Dioxane - Screen	ND (0.500)		8260B		1	12/18/15 15:55	CYL0296	CL52113
1-Chlorohexane	ND (0.0010)		8260B		1	12/18/15 15:55	CYL0296	CL52113
2,2-Dichloropropane	ND (0.0010)		8260B		1	12/18/15 15:55	CYL0296	CL52113
2-Butanone	ND (0.0100)		8260B		1	12/18/15 15:55	CYL0296	CL52113
2-Chlorotoluene	ND (0.0010)		8260B		1	12/18/15 15:55	CYL0296	CL52113
2-Hexanone	ND (0.0100)		8260B		1	12/18/15 15:55	CYL0296	CL52113
4-Chlorotoluene	ND (0.0010)		8260B		1	12/18/15 15:55	CYL0296	CL52113
4-Isopropyltoluene	ND (0.0010)		8260B		1	12/18/15 15:55	CYL0296	CL52113
4-Methyl-2-Pentanone	ND (0.0250)		8260B		1	12/18/15 15:55	CYL0296	CL52113
Acetone	ND (0.0100)		8260B		1	12/18/15 15:55	CYL0296	CL52113
Benzene	ND (0.0010)		8260B		1	12/18/15 15:55	CYL0296	CL52113
Bromobenzene	ND (0.0020)		8260B		1	12/18/15 15:55	CYL0296	CL52113



CERTIFICATE OF ANALYSIS

Client Name: AMEC Foster Wheeler
Client Project ID: Textron Gorham - Groundwater
Client Sample ID: MW-FS
Date Sampled: 12/16/15 09:55
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1512468
ESS Laboratory Sample ID: 1512468-01
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Bromochloromethane	ND (0.0010)		8260B		1	12/18/15 15:55	CYL0296	CL52113
Bromodichloromethane	ND (0.0006)		8260B		1	12/18/15 15:55	CYL0296	CL52113
Bromoform	ND (0.0010)		8260B		1	12/18/15 15:55	CYL0296	CL52113
Bromomethane	ND (0.0020)		8260B		1	12/18/15 15:55	CYL0296	CL52113
Carbon Disulfide	ND (0.0010)		8260B		1	12/18/15 15:55	CYL0296	CL52113
Carbon Tetrachloride	ND (0.0010)		8260B		1	12/18/15 15:55	CYL0296	CL52113
Chlorobenzene	ND (0.0010)		8260B		1	12/18/15 15:55	CYL0296	CL52113
Chloroethane	ND (0.0020)		8260B		1	12/18/15 15:55	CYL0296	CL52113
Chloroform	ND (0.0010)		8260B		1	12/18/15 15:55	CYL0296	CL52113
Chloromethane	ND (0.0020)		8260B		1	12/18/15 15:55	CYL0296	CL52113
cis-1,2-Dichloroethene	0.0346 (0.0010)		8260B		1	12/18/15 15:55	CYL0296	CL52113
cis-1,3-Dichloropropene	ND (0.0004)		8260B		1	12/18/15 15:55	CYL0296	CL52113
Dibromochloromethane	ND (0.0010)		8260B		1	12/18/15 15:55	CYL0296	CL52113
Dibromomethane	ND (0.0010)		8260B		1	12/18/15 15:55	CYL0296	CL52113
Dichlorodifluoromethane	ND (0.0020)		8260B		1	12/18/15 15:55	CYL0296	CL52113
Diethyl Ether	ND (0.0010)		8260B		1	12/18/15 15:55	CYL0296	CL52113
Di-isopropyl ether	ND (0.0010)		8260B		1	12/18/15 15:55	CYL0296	CL52113
Ethyl tertiary-butyl ether	ND (0.0010)		8260B		1	12/18/15 15:55	CYL0296	CL52113
Ethylbenzene	ND (0.0010)		8260B		1	12/18/15 15:55	CYL0296	CL52113
Hexachlorobutadiene	ND (0.0006)		8260B		1	12/18/15 15:55	CYL0296	CL52113
Hexachloroethane	ND (0.0010)		8260B		1	12/18/15 15:55	CYL0296	CL52113
Isopropylbenzene	ND (0.0010)		8260B		1	12/18/15 15:55	CYL0296	CL52113
Methyl tert-Butyl Ether	ND (0.0010)		8260B		1	12/18/15 15:55	CYL0296	CL52113
Methylene Chloride	ND (0.0020)		8260B		1	12/18/15 15:55	CYL0296	CL52113
Naphthalene	ND (0.0010)		8260B		1	12/18/15 15:55	CYL0296	CL52113
n-Butylbenzene	ND (0.0010)		8260B		1	12/18/15 15:55	CYL0296	CL52113
n-Propylbenzene	ND (0.0010)		8260B		1	12/18/15 15:55	CYL0296	CL52113
sec-Butylbenzene	ND (0.0010)		8260B		1	12/18/15 15:55	CYL0296	CL52113
Styrene	ND (0.0010)		8260B		1	12/18/15 15:55	CYL0296	CL52113
tert-Butylbenzene	ND (0.0010)		8260B		1	12/18/15 15:55	CYL0296	CL52113
Tertiary-amyl methyl ether	ND (0.0010)		8260B		1	12/18/15 15:55	CYL0296	CL52113
Tetrachloroethene	0.0228 (0.0010)		8260B		1	12/18/15 15:55	CYL0296	CL52113



CERTIFICATE OF ANALYSIS

Client Name: AMEC Foster Wheeler
Client Project ID: Textron Gorham - Groundwater
Client Sample ID: MW-FS
Date Sampled: 12/16/15 09:55
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1512468
ESS Laboratory Sample ID: 1512468-01
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Tetrahydrofuran	ND (0.0050)		8260B		1	12/18/15 15:55	CYL0296	CL52113
Toluene	ND (0.0010)		8260B		1	12/18/15 15:55	CYL0296	CL52113
trans-1,2-Dichloroethene	ND (0.0010)		8260B		1	12/18/15 15:55	CYL0296	CL52113
trans-1,3-Dichloropropene	ND (0.0004)		8260B		1	12/18/15 15:55	CYL0296	CL52113
Trichloroethene	0.270 (0.0100)		8260B		10	12/21/15 13:33	CYL0296	CL52113
Trichlorofluoromethane	ND (0.0010)		8260B		1	12/18/15 15:55	CYL0296	CL52113
Vinyl Acetate	ND (0.0050)		8260B		1	12/18/15 15:55	CYL0296	CL52113
Vinyl Chloride	ND (0.0010)		8260B		1	12/18/15 15:55	CYL0296	CL52113
Xylene O	ND (0.0010)		8260B		1	12/18/15 15:55	CYL0296	CL52113
Xylene P,M	ND (0.0020)		8260B		1	12/18/15 15:55	CYL0296	CL52113
Xylenes (Total)	ND (0.0020)		8260B		1	12/18/15 15:55		[CALC]
Trihalomethanes (Total)	ND (0.0010)		8260B			12/18/15 15:55		[CALC]

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>108 %</i>		<i>70-130</i>
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>113 %</i>		<i>70-130</i>
<i>Surrogate: Dibromofluoromethane</i>	<i>108 %</i>		<i>70-130</i>
<i>Surrogate: Toluene-d8</i>	<i>117 %</i>		<i>70-130</i>



CERTIFICATE OF ANALYSIS

Client Name: AMEC Foster Wheeler
Client Project ID: Textron Gorham - Groundwater
Client Sample ID: MW-241
Date Sampled: 12/16/15 11:00
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1512468
ESS Laboratory Sample ID: 1512468-02
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1,1,2-Tetrachloroethane	ND (0.0010)		8260B		1	12/18/15 16:22	CYL0296	CL52113
1,1,1-Trichloroethane	ND (0.0010)		8260B		1	12/18/15 16:22	CYL0296	CL52113
1,1,2,2-Tetrachloroethane	ND (0.0005)		8260B		1	12/18/15 16:22	CYL0296	CL52113
1,1,2-Trichloroethane	ND (0.0010)		8260B		1	12/18/15 16:22	CYL0296	CL52113
1,1-Dichloroethane	ND (0.0010)		8260B		1	12/18/15 16:22	CYL0296	CL52113
1,1-Dichloroethene	ND (0.0010)		8260B		1	12/18/15 16:22	CYL0296	CL52113
1,1-Dichloropropene	ND (0.0020)		8260B		1	12/18/15 16:22	CYL0296	CL52113
1,2,3-Trichlorobenzene	ND (0.0010)		8260B		1	12/18/15 16:22	CYL0296	CL52113
1,2,3-Trichloropropane	ND (0.0010)		8260B		1	12/18/15 16:22	CYL0296	CL52113
1,2,4-Trichlorobenzene	ND (0.0010)		8260B		1	12/18/15 16:22	CYL0296	CL52113
1,2,4-Trimethylbenzene	ND (0.0010)		8260B		1	12/18/15 16:22	CYL0296	CL52113
1,2-Dibromo-3-Chloropropane	ND (0.0050)		8260B		1	12/18/15 16:22	CYL0296	CL52113
1,2-Dibromoethane	ND (0.0010)		8260B		1	12/18/15 16:22	CYL0296	CL52113
1,2-Dichlorobenzene	ND (0.0010)		8260B		1	12/18/15 16:22	CYL0296	CL52113
1,2-Dichloroethane	ND (0.0010)		8260B		1	12/18/15 16:22	CYL0296	CL52113
1,2-Dichloropropane	ND (0.0010)		8260B		1	12/18/15 16:22	CYL0296	CL52113
1,3,5-Trimethylbenzene	ND (0.0010)		8260B		1	12/18/15 16:22	CYL0296	CL52113
1,3-Dichlorobenzene	ND (0.0010)		8260B		1	12/18/15 16:22	CYL0296	CL52113
1,3-Dichloropropane	ND (0.0010)		8260B		1	12/18/15 16:22	CYL0296	CL52113
1,4-Dichlorobenzene	ND (0.0010)		8260B		1	12/18/15 16:22	CYL0296	CL52113
1,4-Dioxane - Screen	ND (0.500)		8260B		1	12/18/15 16:22	CYL0296	CL52113
1-Chlorohexane	ND (0.0010)		8260B		1	12/18/15 16:22	CYL0296	CL52113
2,2-Dichloropropane	ND (0.0010)		8260B		1	12/18/15 16:22	CYL0296	CL52113
2-Butanone	ND (0.0100)		8260B		1	12/18/15 16:22	CYL0296	CL52113
2-Chlorotoluene	ND (0.0010)		8260B		1	12/18/15 16:22	CYL0296	CL52113
2-Hexanone	ND (0.0100)		8260B		1	12/18/15 16:22	CYL0296	CL52113
4-Chlorotoluene	ND (0.0010)		8260B		1	12/18/15 16:22	CYL0296	CL52113
4-Isopropyltoluene	ND (0.0010)		8260B		1	12/18/15 16:22	CYL0296	CL52113
4-Methyl-2-Pentanone	ND (0.0250)		8260B		1	12/18/15 16:22	CYL0296	CL52113
Acetone	ND (0.0100)		8260B		1	12/18/15 16:22	CYL0296	CL52113
Benzene	ND (0.0010)		8260B		1	12/18/15 16:22	CYL0296	CL52113
Bromobenzene	ND (0.0020)		8260B		1	12/18/15 16:22	CYL0296	CL52113



CERTIFICATE OF ANALYSIS

Client Name: AMEC Foster Wheeler
Client Project ID: Textron Gorham - Groundwater
Client Sample ID: MW-241
Date Sampled: 12/16/15 11:00
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1512468
ESS Laboratory Sample ID: 1512468-02
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Bromochloromethane	ND (0.0010)		8260B		1	12/18/15 16:22	CYL0296	CL52113
Bromodichloromethane	ND (0.0006)		8260B		1	12/18/15 16:22	CYL0296	CL52113
Bromoform	ND (0.0010)		8260B		1	12/18/15 16:22	CYL0296	CL52113
Bromomethane	ND (0.0020)		8260B		1	12/18/15 16:22	CYL0296	CL52113
Carbon Disulfide	ND (0.0010)		8260B		1	12/18/15 16:22	CYL0296	CL52113
Carbon Tetrachloride	ND (0.0010)		8260B		1	12/18/15 16:22	CYL0296	CL52113
Chlorobenzene	ND (0.0010)		8260B		1	12/18/15 16:22	CYL0296	CL52113
Chloroethane	ND (0.0020)		8260B		1	12/18/15 16:22	CYL0296	CL52113
Chloroform	ND (0.0010)		8260B		1	12/18/15 16:22	CYL0296	CL52113
Chloromethane	ND (0.0020)		8260B		1	12/18/15 16:22	CYL0296	CL52113
cis-1,2-Dichloroethene	0.0025 (0.0010)		8260B		1	12/18/15 16:22	CYL0296	CL52113
cis-1,3-Dichloropropene	ND (0.0004)		8260B		1	12/18/15 16:22	CYL0296	CL52113
Dibromochloromethane	ND (0.0010)		8260B		1	12/18/15 16:22	CYL0296	CL52113
Dibromomethane	ND (0.0010)		8260B		1	12/18/15 16:22	CYL0296	CL52113
Dichlorodifluoromethane	ND (0.0020)		8260B		1	12/18/15 16:22	CYL0296	CL52113
Diethyl Ether	ND (0.0010)		8260B		1	12/18/15 16:22	CYL0296	CL52113
Di-isopropyl ether	ND (0.0010)		8260B		1	12/18/15 16:22	CYL0296	CL52113
Ethyl tertiary-butyl ether	ND (0.0010)		8260B		1	12/18/15 16:22	CYL0296	CL52113
Ethylbenzene	ND (0.0010)		8260B		1	12/18/15 16:22	CYL0296	CL52113
Hexachlorobutadiene	ND (0.0006)		8260B		1	12/18/15 16:22	CYL0296	CL52113
Hexachloroethane	ND (0.0010)		8260B		1	12/18/15 16:22	CYL0296	CL52113
Isopropylbenzene	ND (0.0010)		8260B		1	12/18/15 16:22	CYL0296	CL52113
Methyl tert-Butyl Ether	ND (0.0010)		8260B		1	12/18/15 16:22	CYL0296	CL52113
Methylene Chloride	ND (0.0020)		8260B		1	12/18/15 16:22	CYL0296	CL52113
Naphthalene	ND (0.0010)		8260B		1	12/18/15 16:22	CYL0296	CL52113
n-Butylbenzene	ND (0.0010)		8260B		1	12/18/15 16:22	CYL0296	CL52113
n-Propylbenzene	ND (0.0010)		8260B		1	12/18/15 16:22	CYL0296	CL52113
sec-Butylbenzene	ND (0.0010)		8260B		1	12/18/15 16:22	CYL0296	CL52113
Styrene	ND (0.0010)		8260B		1	12/18/15 16:22	CYL0296	CL52113
tert-Butylbenzene	ND (0.0010)		8260B		1	12/18/15 16:22	CYL0296	CL52113
Tertiary-amyl methyl ether	ND (0.0010)		8260B		1	12/18/15 16:22	CYL0296	CL52113
Tetrachloroethene	ND (0.0010)		8260B		1	12/18/15 16:22	CYL0296	CL52113



CERTIFICATE OF ANALYSIS

Client Name: AMEC Foster Wheeler
Client Project ID: Textron Gorham - Groundwater
Client Sample ID: MW-241
Date Sampled: 12/16/15 11:00
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1512468
ESS Laboratory Sample ID: 1512468-02
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Tetrahydrofuran	ND (0.0050)		8260B		1	12/18/15 16:22	CYL0296	CL52113
Toluene	ND (0.0010)		8260B		1	12/18/15 16:22	CYL0296	CL52113
trans-1,2-Dichloroethene	ND (0.0010)		8260B		1	12/18/15 16:22	CYL0296	CL52113
trans-1,3-Dichloropropene	ND (0.0004)		8260B		1	12/18/15 16:22	CYL0296	CL52113
Trichloroethene	0.0527 (0.0010)		8260B		1	12/18/15 16:22	CYL0296	CL52113
Trichlorofluoromethane	ND (0.0010)		8260B		1	12/18/15 16:22	CYL0296	CL52113
Vinyl Acetate	ND (0.0050)		8260B		1	12/18/15 16:22	CYL0296	CL52113
Vinyl Chloride	ND (0.0010)		8260B		1	12/18/15 16:22	CYL0296	CL52113
Xylene O	ND (0.0010)		8260B		1	12/18/15 16:22	CYL0296	CL52113
Xylene P,M	ND (0.0020)		8260B		1	12/18/15 16:22	CYL0296	CL52113
Xylenes (Total)	ND (0.0020)		8260B		1	12/18/15 16:22		[CALC]
Trihalomethanes (Total)	ND (0.0010)		8260B			12/18/15 16:22		[CALC]

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>108 %</i>		<i>70-130</i>
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>117 %</i>		<i>70-130</i>
<i>Surrogate: Dibromofluoromethane</i>	<i>112 %</i>		<i>70-130</i>
<i>Surrogate: Toluene-d8</i>	<i>118 %</i>		<i>70-130</i>



CERTIFICATE OF ANALYSIS

Client Name: AMEC Foster Wheeler
Client Project ID: Textron Gorham - Groundwater
Client Sample ID: MW-235S
Date Sampled: 12/16/15 14:10
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1512468
ESS Laboratory Sample ID: 1512468-03
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1,1,2-Tetrachloroethane	ND (0.0010)		8260B		1	12/18/15 16:49	CYL0296	CL52113
1,1,1-Trichloroethane	ND (0.0010)		8260B		1	12/18/15 16:49	CYL0296	CL52113
1,1,2,2-Tetrachloroethane	ND (0.0005)		8260B		1	12/18/15 16:49	CYL0296	CL52113
1,1,2-Trichloroethane	ND (0.0010)		8260B		1	12/18/15 16:49	CYL0296	CL52113
1,1-Dichloroethane	ND (0.0010)		8260B		1	12/18/15 16:49	CYL0296	CL52113
1,1-Dichloroethene	ND (0.0010)		8260B		1	12/18/15 16:49	CYL0296	CL52113
1,1-Dichloropropene	ND (0.0020)		8260B		1	12/18/15 16:49	CYL0296	CL52113
1,2,3-Trichlorobenzene	ND (0.0010)		8260B		1	12/18/15 16:49	CYL0296	CL52113
1,2,3-Trichloropropane	ND (0.0010)		8260B		1	12/18/15 16:49	CYL0296	CL52113
1,2,4-Trichlorobenzene	ND (0.0010)		8260B		1	12/18/15 16:49	CYL0296	CL52113
1,2,4-Trimethylbenzene	ND (0.0010)		8260B		1	12/18/15 16:49	CYL0296	CL52113
1,2-Dibromo-3-Chloropropane	ND (0.0050)		8260B		1	12/18/15 16:49	CYL0296	CL52113
1,2-Dibromoethane	ND (0.0010)		8260B		1	12/18/15 16:49	CYL0296	CL52113
1,2-Dichlorobenzene	ND (0.0010)		8260B		1	12/18/15 16:49	CYL0296	CL52113
1,2-Dichloroethane	ND (0.0010)		8260B		1	12/18/15 16:49	CYL0296	CL52113
1,2-Dichloropropane	ND (0.0010)		8260B		1	12/18/15 16:49	CYL0296	CL52113
1,3,5-Trimethylbenzene	ND (0.0010)		8260B		1	12/18/15 16:49	CYL0296	CL52113
1,3-Dichlorobenzene	ND (0.0010)		8260B		1	12/18/15 16:49	CYL0296	CL52113
1,3-Dichloropropane	ND (0.0010)		8260B		1	12/18/15 16:49	CYL0296	CL52113
1,4-Dichlorobenzene	ND (0.0010)		8260B		1	12/18/15 16:49	CYL0296	CL52113
1,4-Dioxane - Screen	ND (0.500)		8260B		1	12/18/15 16:49	CYL0296	CL52113
1-Chlorohexane	ND (0.0010)		8260B		1	12/18/15 16:49	CYL0296	CL52113
2,2-Dichloropropane	ND (0.0010)		8260B		1	12/18/15 16:49	CYL0296	CL52113
2-Butanone	ND (0.0100)		8260B		1	12/18/15 16:49	CYL0296	CL52113
2-Chlorotoluene	ND (0.0010)		8260B		1	12/18/15 16:49	CYL0296	CL52113
2-Hexanone	ND (0.0100)		8260B		1	12/18/15 16:49	CYL0296	CL52113
4-Chlorotoluene	ND (0.0010)		8260B		1	12/18/15 16:49	CYL0296	CL52113
4-Isopropyltoluene	ND (0.0010)		8260B		1	12/18/15 16:49	CYL0296	CL52113
4-Methyl-2-Pentanone	ND (0.0250)		8260B		1	12/18/15 16:49	CYL0296	CL52113
Acetone	ND (0.0100)		8260B		1	12/18/15 16:49	CYL0296	CL52113
Benzene	ND (0.0010)		8260B		1	12/18/15 16:49	CYL0296	CL52113
Bromobenzene	ND (0.0020)		8260B		1	12/18/15 16:49	CYL0296	CL52113



CERTIFICATE OF ANALYSIS

Client Name: AMEC Foster Wheeler
Client Project ID: Textron Gorham - Groundwater
Client Sample ID: MW-235S
Date Sampled: 12/16/15 14:10
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1512468
ESS Laboratory Sample ID: 1512468-03
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Bromochloromethane	ND (0.0010)		8260B		1	12/18/15 16:49	CYL0296	CL52113
Bromodichloromethane	ND (0.0006)		8260B		1	12/18/15 16:49	CYL0296	CL52113
Bromoform	ND (0.0010)		8260B		1	12/18/15 16:49	CYL0296	CL52113
Bromomethane	ND (0.0020)		8260B		1	12/18/15 16:49	CYL0296	CL52113
Carbon Disulfide	ND (0.0010)		8260B		1	12/18/15 16:49	CYL0296	CL52113
Carbon Tetrachloride	ND (0.0010)		8260B		1	12/18/15 16:49	CYL0296	CL52113
Chlorobenzene	ND (0.0010)		8260B		1	12/18/15 16:49	CYL0296	CL52113
Chloroethane	ND (0.0020)		8260B		1	12/18/15 16:49	CYL0296	CL52113
Chloroform	ND (0.0010)		8260B		1	12/18/15 16:49	CYL0296	CL52113
Chloromethane	ND (0.0020)		8260B		1	12/18/15 16:49	CYL0296	CL52113
cis-1,2-Dichloroethene	0.0093 (0.0010)		8260B		1	12/18/15 16:49	CYL0296	CL52113
cis-1,3-Dichloropropene	ND (0.0004)		8260B		1	12/18/15 16:49	CYL0296	CL52113
Dibromochloromethane	ND (0.0010)		8260B		1	12/18/15 16:49	CYL0296	CL52113
Dibromomethane	ND (0.0010)		8260B		1	12/18/15 16:49	CYL0296	CL52113
Dichlorodifluoromethane	ND (0.0020)		8260B		1	12/18/15 16:49	CYL0296	CL52113
Diethyl Ether	ND (0.0010)		8260B		1	12/18/15 16:49	CYL0296	CL52113
Di-isopropyl ether	ND (0.0010)		8260B		1	12/18/15 16:49	CYL0296	CL52113
Ethyl tertiary-butyl ether	ND (0.0010)		8260B		1	12/18/15 16:49	CYL0296	CL52113
Ethylbenzene	ND (0.0010)		8260B		1	12/18/15 16:49	CYL0296	CL52113
Hexachlorobutadiene	ND (0.0006)		8260B		1	12/18/15 16:49	CYL0296	CL52113
Hexachloroethane	ND (0.0010)		8260B		1	12/18/15 16:49	CYL0296	CL52113
Isopropylbenzene	ND (0.0010)		8260B		1	12/18/15 16:49	CYL0296	CL52113
Methyl tert-Butyl Ether	ND (0.0010)		8260B		1	12/18/15 16:49	CYL0296	CL52113
Methylene Chloride	ND (0.0020)		8260B		1	12/18/15 16:49	CYL0296	CL52113
Naphthalene	ND (0.0010)		8260B		1	12/18/15 16:49	CYL0296	CL52113
n-Butylbenzene	ND (0.0010)		8260B		1	12/18/15 16:49	CYL0296	CL52113
n-Propylbenzene	ND (0.0010)		8260B		1	12/18/15 16:49	CYL0296	CL52113
sec-Butylbenzene	ND (0.0010)		8260B		1	12/18/15 16:49	CYL0296	CL52113
Styrene	ND (0.0010)		8260B		1	12/18/15 16:49	CYL0296	CL52113
tert-Butylbenzene	ND (0.0010)		8260B		1	12/18/15 16:49	CYL0296	CL52113
Tertiary-amyl methyl ether	ND (0.0010)		8260B		1	12/18/15 16:49	CYL0296	CL52113
Tetrachloroethene	0.0029 (0.0010)		8260B		1	12/18/15 16:49	CYL0296	CL52113



CERTIFICATE OF ANALYSIS

Client Name: AMEC Foster Wheeler
Client Project ID: Textron Gorham - Groundwater
Client Sample ID: MW-235S
Date Sampled: 12/16/15 14:10
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1512468
ESS Laboratory Sample ID: 1512468-03
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Tetrahydrofuran	ND (0.0050)		8260B		1	12/18/15 16:49	CYL0296	CL52113
Toluene	ND (0.0010)		8260B		1	12/18/15 16:49	CYL0296	CL52113
trans-1,2-Dichloroethene	ND (0.0010)		8260B		1	12/18/15 16:49	CYL0296	CL52113
trans-1,3-Dichloropropene	ND (0.0004)		8260B		1	12/18/15 16:49	CYL0296	CL52113
Trichloroethene	0.0126 (0.0010)		8260B		1	12/18/15 16:49	CYL0296	CL52113
Trichlorofluoromethane	ND (0.0010)		8260B		1	12/18/15 16:49	CYL0296	CL52113
Vinyl Acetate	ND (0.0050)		8260B		1	12/18/15 16:49	CYL0296	CL52113
Vinyl Chloride	ND (0.0010)		8260B		1	12/18/15 16:49	CYL0296	CL52113
Xylene O	ND (0.0010)		8260B		1	12/18/15 16:49	CYL0296	CL52113
Xylene P,M	ND (0.0020)		8260B		1	12/18/15 16:49	CYL0296	CL52113
Xylenes (Total)	ND (0.0020)		8260B		1	12/18/15 16:49		[CALC]
Trihalomethanes (Total)	ND (0.0010)		8260B			12/18/15 16:49		[CALC]

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>110 %</i>		<i>70-130</i>
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>111 %</i>		<i>70-130</i>
<i>Surrogate: Dibromofluoromethane</i>	<i>108 %</i>		<i>70-130</i>
<i>Surrogate: Toluene-d8</i>	<i>117 %</i>		<i>70-130</i>



CERTIFICATE OF ANALYSIS

Client Name: AMEC Foster Wheeler
Client Project ID: Textron Gorham - Groundwater
Client Sample ID: MW-236S
Date Sampled: 12/16/15 14:30
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1512468
ESS Laboratory Sample ID: 1512468-04
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1,1,2-Tetrachloroethane	ND (0.0010)		8260B		1	12/18/15 17:16	CYL0296	CL52113
1,1,1-Trichloroethane	ND (0.0010)		8260B		1	12/18/15 17:16	CYL0296	CL52113
1,1,2,2-Tetrachloroethane	ND (0.0005)		8260B		1	12/18/15 17:16	CYL0296	CL52113
1,1,2-Trichloroethane	0.0029 (0.0010)		8260B		1	12/18/15 17:16	CYL0296	CL52113
1,1-Dichloroethane	ND (0.0010)		8260B		1	12/18/15 17:16	CYL0296	CL52113
1,1-Dichloroethene	0.0017 (0.0010)		8260B		1	12/18/15 17:16	CYL0296	CL52113
1,1-Dichloropropene	ND (0.0020)		8260B		1	12/18/15 17:16	CYL0296	CL52113
1,2,3-Trichlorobenzene	ND (0.0010)		8260B		1	12/18/15 17:16	CYL0296	CL52113
1,2,3-Trichloropropane	ND (0.0010)		8260B		1	12/18/15 17:16	CYL0296	CL52113
1,2,4-Trichlorobenzene	ND (0.0010)		8260B		1	12/18/15 17:16	CYL0296	CL52113
1,2,4-Trimethylbenzene	ND (0.0010)		8260B		1	12/18/15 17:16	CYL0296	CL52113
1,2-Dibromo-3-Chloropropane	ND (0.0050)		8260B		1	12/18/15 17:16	CYL0296	CL52113
1,2-Dibromoethane	ND (0.0010)		8260B		1	12/18/15 17:16	CYL0296	CL52113
1,2-Dichlorobenzene	ND (0.0010)		8260B		1	12/18/15 17:16	CYL0296	CL52113
1,2-Dichloroethane	0.0024 (0.0010)		8260B		1	12/18/15 17:16	CYL0296	CL52113
1,2-Dichloropropane	ND (0.0010)		8260B		1	12/18/15 17:16	CYL0296	CL52113
1,3,5-Trimethylbenzene	ND (0.0010)		8260B		1	12/18/15 17:16	CYL0296	CL52113
1,3-Dichlorobenzene	ND (0.0010)		8260B		1	12/18/15 17:16	CYL0296	CL52113
1,3-Dichloropropane	ND (0.0010)		8260B		1	12/18/15 17:16	CYL0296	CL52113
1,4-Dichlorobenzene	ND (0.0010)		8260B		1	12/18/15 17:16	CYL0296	CL52113
1,4-Dioxane - Screen	ND (0.500)		8260B		1	12/18/15 17:16	CYL0296	CL52113
1-Chlorohexane	ND (0.0010)		8260B		1	12/18/15 17:16	CYL0296	CL52113
2,2-Dichloropropane	ND (0.0010)		8260B		1	12/18/15 17:16	CYL0296	CL52113
2-Butanone	ND (0.0100)		8260B		1	12/18/15 17:16	CYL0296	CL52113
2-Chlorotoluene	ND (0.0010)		8260B		1	12/18/15 17:16	CYL0296	CL52113
2-Hexanone	ND (0.0100)		8260B		1	12/18/15 17:16	CYL0296	CL52113
4-Chlorotoluene	ND (0.0010)		8260B		1	12/18/15 17:16	CYL0296	CL52113
4-Isopropyltoluene	ND (0.0010)		8260B		1	12/18/15 17:16	CYL0296	CL52113
4-Methyl-2-Pentanone	ND (0.0250)		8260B		1	12/18/15 17:16	CYL0296	CL52113
Acetone	ND (0.0100)		8260B		1	12/18/15 17:16	CYL0296	CL52113
Benzene	ND (0.0010)		8260B		1	12/18/15 17:16	CYL0296	CL52113
Bromobenzene	ND (0.0020)		8260B		1	12/18/15 17:16	CYL0296	CL52113



CERTIFICATE OF ANALYSIS

Client Name: AMEC Foster Wheeler
Client Project ID: Textron Gorham - Groundwater
Client Sample ID: MW-236S
Date Sampled: 12/16/15 14:30
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1512468
ESS Laboratory Sample ID: 1512468-04
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Bromochloromethane	ND (0.0010)		8260B		1	12/18/15 17:16	CYL0296	CL52113
Bromodichloromethane	ND (0.0006)		8260B		1	12/18/15 17:16	CYL0296	CL52113
Bromoform	ND (0.0010)		8260B		1	12/18/15 17:16	CYL0296	CL52113
Bromomethane	ND (0.0020)		8260B		1	12/18/15 17:16	CYL0296	CL52113
Carbon Disulfide	ND (0.0010)		8260B		1	12/18/15 17:16	CYL0296	CL52113
Carbon Tetrachloride	ND (0.0010)		8260B		1	12/18/15 17:16	CYL0296	CL52113
Chlorobenzene	ND (0.0010)		8260B		1	12/18/15 17:16	CYL0296	CL52113
Chloroethane	ND (0.0020)		8260B		1	12/18/15 17:16	CYL0296	CL52113
Chloroform	ND (0.0010)		8260B		1	12/18/15 17:16	CYL0296	CL52113
Chloromethane	ND (0.0020)		8260B		1	12/18/15 17:16	CYL0296	CL52113
cis-1,2-Dichloroethene	0.0755 (0.0010)		8260B		1	12/18/15 17:16	CYL0296	CL52113
cis-1,3-Dichloropropene	ND (0.0004)		8260B		1	12/18/15 17:16	CYL0296	CL52113
Dibromochloromethane	ND (0.0010)		8260B		1	12/18/15 17:16	CYL0296	CL52113
Dibromomethane	ND (0.0010)		8260B		1	12/18/15 17:16	CYL0296	CL52113
Dichlorodifluoromethane	ND (0.0020)		8260B		1	12/18/15 17:16	CYL0296	CL52113
Diethyl Ether	ND (0.0010)		8260B		1	12/18/15 17:16	CYL0296	CL52113
Di-isopropyl ether	ND (0.0010)		8260B		1	12/18/15 17:16	CYL0296	CL52113
Ethyl tertiary-butyl ether	ND (0.0010)		8260B		1	12/18/15 17:16	CYL0296	CL52113
Ethylbenzene	ND (0.0010)		8260B		1	12/18/15 17:16	CYL0296	CL52113
Hexachlorobutadiene	ND (0.0006)		8260B		1	12/18/15 17:16	CYL0296	CL52113
Hexachloroethane	ND (0.0010)		8260B		1	12/18/15 17:16	CYL0296	CL52113
Isopropylbenzene	ND (0.0010)		8260B		1	12/18/15 17:16	CYL0296	CL52113
Methyl tert-Butyl Ether	ND (0.0010)		8260B		1	12/18/15 17:16	CYL0296	CL52113
Methylene Chloride	ND (0.0020)		8260B		1	12/18/15 17:16	CYL0296	CL52113
Naphthalene	ND (0.0010)		8260B		1	12/18/15 17:16	CYL0296	CL52113
n-Butylbenzene	ND (0.0010)		8260B		1	12/18/15 17:16	CYL0296	CL52113
n-Propylbenzene	ND (0.0010)		8260B		1	12/18/15 17:16	CYL0296	CL52113
sec-Butylbenzene	ND (0.0010)		8260B		1	12/18/15 17:16	CYL0296	CL52113
Styrene	ND (0.0010)		8260B		1	12/18/15 17:16	CYL0296	CL52113
tert-Butylbenzene	ND (0.0010)		8260B		1	12/18/15 17:16	CYL0296	CL52113
Tertiary-amyl methyl ether	ND (0.0010)		8260B		1	12/18/15 17:16	CYL0296	CL52113
Tetrachloroethene	ND (0.0010)		8260B		1	12/18/15 17:16	CYL0296	CL52113



CERTIFICATE OF ANALYSIS

Client Name: AMEC Foster Wheeler
Client Project ID: Textron Gorham - Groundwater
Client Sample ID: MW-236S
Date Sampled: 12/16/15 14:30
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1512468
ESS Laboratory Sample ID: 1512468-04
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Tetrahydrofuran	ND (0.0050)		8260B		1	12/18/15 17:16	CYL0296	CL52113
Toluene	ND (0.0010)		8260B		1	12/18/15 17:16	CYL0296	CL52113
trans-1,2-Dichloroethene	ND (0.0010)		8260B		1	12/18/15 17:16	CYL0296	CL52113
trans-1,3-Dichloropropene	ND (0.0004)		8260B		1	12/18/15 17:16	CYL0296	CL52113
Trichloroethene	0.144 (0.0100)		8260B		10	12/21/15 14:27	CYL0296	CL52113
Trichlorofluoromethane	ND (0.0010)		8260B		1	12/18/15 17:16	CYL0296	CL52113
Vinyl Acetate	ND (0.0050)		8260B		1	12/18/15 17:16	CYL0296	CL52113
Vinyl Chloride	ND (0.0010)		8260B		1	12/18/15 17:16	CYL0296	CL52113
Xylene O	ND (0.0010)		8260B		1	12/18/15 17:16	CYL0296	CL52113
Xylene P,M	ND (0.0020)		8260B		1	12/18/15 17:16	CYL0296	CL52113
Xylenes (Total)	ND (0.0020)		8260B		1	12/18/15 17:16		[CALC]
Trihalomethanes (Total)	ND (0.0010)		8260B			12/18/15 17:16		[CALC]

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>109 %</i>		<i>70-130</i>
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>106 %</i>		<i>70-130</i>
<i>Surrogate: Dibromofluoromethane</i>	<i>113 %</i>		<i>70-130</i>
<i>Surrogate: Toluene-d8</i>	<i>121 %</i>		<i>70-130</i>



CERTIFICATE OF ANALYSIS

Client Name: AMEC Foster Wheeler
Client Project ID: Textron Gorham - Groundwater
Client Sample ID: DUP-01
Date Sampled: 12/16/15 10:00
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1512468
ESS Laboratory Sample ID: 1512468-05
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1,1,2-Tetrachloroethane	ND (0.0010)		8260B		1	12/18/15 17:43	CYL0296	CL52113
1,1,1-Trichloroethane	ND (0.0010)		8260B		1	12/18/15 17:43	CYL0296	CL52113
1,1,2,2-Tetrachloroethane	ND (0.0005)		8260B		1	12/18/15 17:43	CYL0296	CL52113
1,1,2-Trichloroethane	ND (0.0010)		8260B		1	12/18/15 17:43	CYL0296	CL52113
1,1-Dichloroethane	ND (0.0010)		8260B		1	12/18/15 17:43	CYL0296	CL52113
1,1-Dichloroethene	0.0013 (0.0010)		8260B		1	12/18/15 17:43	CYL0296	CL52113
1,1-Dichloropropene	ND (0.0020)		8260B		1	12/18/15 17:43	CYL0296	CL52113
1,2,3-Trichlorobenzene	ND (0.0010)		8260B		1	12/18/15 17:43	CYL0296	CL52113
1,2,3-Trichloropropane	ND (0.0010)		8260B		1	12/18/15 17:43	CYL0296	CL52113
1,2,4-Trichlorobenzene	ND (0.0010)		8260B		1	12/18/15 17:43	CYL0296	CL52113
1,2,4-Trimethylbenzene	ND (0.0010)		8260B		1	12/18/15 17:43	CYL0296	CL52113
1,2-Dibromo-3-Chloropropane	ND (0.0050)		8260B		1	12/18/15 17:43	CYL0296	CL52113
1,2-Dibromoethane	ND (0.0010)		8260B		1	12/18/15 17:43	CYL0296	CL52113
1,2-Dichlorobenzene	ND (0.0010)		8260B		1	12/18/15 17:43	CYL0296	CL52113
1,2-Dichloroethane	ND (0.0010)		8260B		1	12/18/15 17:43	CYL0296	CL52113
1,2-Dichloropropane	ND (0.0010)		8260B		1	12/18/15 17:43	CYL0296	CL52113
1,3,5-Trimethylbenzene	ND (0.0010)		8260B		1	12/18/15 17:43	CYL0296	CL52113
1,3-Dichlorobenzene	ND (0.0010)		8260B		1	12/18/15 17:43	CYL0296	CL52113
1,3-Dichloropropane	ND (0.0010)		8260B		1	12/18/15 17:43	CYL0296	CL52113
1,4-Dichlorobenzene	ND (0.0010)		8260B		1	12/18/15 17:43	CYL0296	CL52113
1,4-Dioxane - Screen	ND (0.500)		8260B		1	12/18/15 17:43	CYL0296	CL52113
1-Chlorohexane	ND (0.0010)		8260B		1	12/18/15 17:43	CYL0296	CL52113
2,2-Dichloropropane	ND (0.0010)		8260B		1	12/18/15 17:43	CYL0296	CL52113
2-Butanone	ND (0.0100)		8260B		1	12/18/15 17:43	CYL0296	CL52113
2-Chlorotoluene	ND (0.0010)		8260B		1	12/18/15 17:43	CYL0296	CL52113
2-Hexanone	ND (0.0100)		8260B		1	12/18/15 17:43	CYL0296	CL52113
4-Chlorotoluene	ND (0.0010)		8260B		1	12/18/15 17:43	CYL0296	CL52113
4-Isopropyltoluene	ND (0.0010)		8260B		1	12/18/15 17:43	CYL0296	CL52113
4-Methyl-2-Pentanone	ND (0.0250)		8260B		1	12/18/15 17:43	CYL0296	CL52113
Acetone	ND (0.0100)		8260B		1	12/18/15 17:43	CYL0296	CL52113
Benzene	ND (0.0010)		8260B		1	12/18/15 17:43	CYL0296	CL52113
Bromobenzene	ND (0.0020)		8260B		1	12/18/15 17:43	CYL0296	CL52113



CERTIFICATE OF ANALYSIS

Client Name: AMEC Foster Wheeler
Client Project ID: Textron Gorham - Groundwater
Client Sample ID: DUP-01
Date Sampled: 12/16/15 10:00
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1512468
ESS Laboratory Sample ID: 1512468-05
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Bromochloromethane	ND (0.0010)		8260B		1	12/18/15 17:43	CYL0296	CL52113
Bromodichloromethane	ND (0.0006)		8260B		1	12/18/15 17:43	CYL0296	CL52113
Bromoform	ND (0.0010)		8260B		1	12/18/15 17:43	CYL0296	CL52113
Bromomethane	ND (0.0020)		8260B		1	12/18/15 17:43	CYL0296	CL52113
Carbon Disulfide	ND (0.0010)		8260B		1	12/18/15 17:43	CYL0296	CL52113
Carbon Tetrachloride	ND (0.0010)		8260B		1	12/18/15 17:43	CYL0296	CL52113
Chlorobenzene	ND (0.0010)		8260B		1	12/18/15 17:43	CYL0296	CL52113
Chloroethane	ND (0.0020)		8260B		1	12/18/15 17:43	CYL0296	CL52113
Chloroform	ND (0.0010)		8260B		1	12/18/15 17:43	CYL0296	CL52113
Chloromethane	ND (0.0020)		8260B		1	12/18/15 17:43	CYL0296	CL52113
cis-1,2-Dichloroethene	0.0363 (0.0010)		8260B		1	12/18/15 17:43	CYL0296	CL52113
cis-1,3-Dichloropropene	ND (0.0004)		8260B		1	12/18/15 17:43	CYL0296	CL52113
Dibromochloromethane	ND (0.0010)		8260B		1	12/18/15 17:43	CYL0296	CL52113
Dibromomethane	ND (0.0010)		8260B		1	12/18/15 17:43	CYL0296	CL52113
Dichlorodifluoromethane	ND (0.0020)		8260B		1	12/18/15 17:43	CYL0296	CL52113
Diethyl Ether	ND (0.0010)		8260B		1	12/18/15 17:43	CYL0296	CL52113
Di-isopropyl ether	ND (0.0010)		8260B		1	12/18/15 17:43	CYL0296	CL52113
Ethyl tertiary-butyl ether	ND (0.0010)		8260B		1	12/18/15 17:43	CYL0296	CL52113
Ethylbenzene	ND (0.0010)		8260B		1	12/18/15 17:43	CYL0296	CL52113
Hexachlorobutadiene	ND (0.0006)		8260B		1	12/18/15 17:43	CYL0296	CL52113
Hexachloroethane	ND (0.0010)		8260B		1	12/18/15 17:43	CYL0296	CL52113
Isopropylbenzene	ND (0.0010)		8260B		1	12/18/15 17:43	CYL0296	CL52113
Methyl tert-Butyl Ether	ND (0.0010)		8260B		1	12/18/15 17:43	CYL0296	CL52113
Methylene Chloride	ND (0.0020)		8260B		1	12/18/15 17:43	CYL0296	CL52113
Naphthalene	ND (0.0010)		8260B		1	12/18/15 17:43	CYL0296	CL52113
n-Butylbenzene	ND (0.0010)		8260B		1	12/18/15 17:43	CYL0296	CL52113
n-Propylbenzene	ND (0.0010)		8260B		1	12/18/15 17:43	CYL0296	CL52113
sec-Butylbenzene	ND (0.0010)		8260B		1	12/18/15 17:43	CYL0296	CL52113
Styrene	ND (0.0010)		8260B		1	12/18/15 17:43	CYL0296	CL52113
tert-Butylbenzene	ND (0.0010)		8260B		1	12/18/15 17:43	CYL0296	CL52113
Tertiary-amyl methyl ether	ND (0.0010)		8260B		1	12/18/15 17:43	CYL0296	CL52113
Tetrachloroethene	0.0237 (0.0010)		8260B		1	12/18/15 17:43	CYL0296	CL52113



CERTIFICATE OF ANALYSIS

Client Name: AMEC Foster Wheeler
 Client Project ID: Textron Gorham - Groundwater
 Client Sample ID: DUP-01
 Date Sampled: 12/16/15 10:00
 Percent Solids: N/A
 Initial Volume: 5
 Final Volume: 5
 Extraction Method: 5030B

ESS Laboratory Work Order: 1512468
 ESS Laboratory Sample ID: 1512468-05
 Sample Matrix: Ground Water
 Units: mg/L
 Analyst: MD

8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Tetrahydrofuran	ND (0.0050)		8260B		1	12/18/15 17:43	CYL0296	CL52113
Toluene	ND (0.0010)		8260B		1	12/18/15 17:43	CYL0296	CL52113
trans-1,2-Dichloroethene	ND (0.0010)		8260B		1	12/18/15 17:43	CYL0296	CL52113
trans-1,3-Dichloropropene	ND (0.0004)		8260B		1	12/18/15 17:43	CYL0296	CL52113
Trichloroethene	0.289 (0.0100)		8260B		10	12/21/15 14:00	CYL0296	CL52113
Trichlorofluoromethane	ND (0.0010)		8260B		1	12/18/15 17:43	CYL0296	CL52113
Vinyl Acetate	ND (0.0050)		8260B		1	12/18/15 17:43	CYL0296	CL52113
Vinyl Chloride	ND (0.0010)		8260B		1	12/18/15 17:43	CYL0296	CL52113
Xylene O	ND (0.0010)		8260B		1	12/18/15 17:43	CYL0296	CL52113
Xylene P,M	ND (0.0020)		8260B		1	12/18/15 17:43	CYL0296	CL52113
Xylenes (Total)	ND (0.0020)		8260B		1	12/18/15 17:43		[CALC]
Trihalomethanes (Total)	ND (0.0010)		8260B			12/18/15 17:43		[CALC]

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>111 %</i>		<i>70-130</i>
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>112 %</i>		<i>70-130</i>
<i>Surrogate: Dibromofluoromethane</i>	<i>111 %</i>		<i>70-130</i>
<i>Surrogate: Toluene-d8</i>	<i>121 %</i>		<i>70-130</i>



CERTIFICATE OF ANALYSIS

Client Name: AMEC Foster Wheeler
Client Project ID: Textron Gorham - Groundwater
Client Sample ID: MW-D
Date Sampled: 12/17/15 09:30
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1512468
ESS Laboratory Sample ID: 1512468-06
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1,1,2-Tetrachloroethane	ND (0.0010)		8260B		1	12/18/15 18:10	CYL0296	CL52113
1,1,1-Trichloroethane	ND (0.0010)		8260B		1	12/18/15 18:10	CYL0296	CL52113
1,1,2,2-Tetrachloroethane	ND (0.0005)		8260B		1	12/18/15 18:10	CYL0296	CL52113
1,1,2-Trichloroethane	ND (0.0010)		8260B		1	12/18/15 18:10	CYL0296	CL52113
1,1-Dichloroethane	ND (0.0010)		8260B		1	12/18/15 18:10	CYL0296	CL52113
1,1-Dichloroethene	0.0114 (0.0010)		8260B		1	12/18/15 18:10	CYL0296	CL52113
1,1-Dichloropropene	ND (0.0020)		8260B		1	12/18/15 18:10	CYL0296	CL52113
1,2,3-Trichlorobenzene	ND (0.0010)		8260B		1	12/18/15 18:10	CYL0296	CL52113
1,2,3-Trichloropropane	ND (0.0010)		8260B		1	12/18/15 18:10	CYL0296	CL52113
1,2,4-Trichlorobenzene	ND (0.0010)		8260B		1	12/18/15 18:10	CYL0296	CL52113
1,2,4-Trimethylbenzene	ND (0.0010)		8260B		1	12/18/15 18:10	CYL0296	CL52113
1,2-Dibromo-3-Chloropropane	ND (0.0050)		8260B		1	12/18/15 18:10	CYL0296	CL52113
1,2-Dibromoethane	ND (0.0010)		8260B		1	12/18/15 18:10	CYL0296	CL52113
1,2-Dichlorobenzene	ND (0.0010)		8260B		1	12/18/15 18:10	CYL0296	CL52113
1,2-Dichloroethane	ND (0.0010)		8260B		1	12/18/15 18:10	CYL0296	CL52113
1,2-Dichloropropane	ND (0.0010)		8260B		1	12/18/15 18:10	CYL0296	CL52113
1,3,5-Trimethylbenzene	ND (0.0010)		8260B		1	12/18/15 18:10	CYL0296	CL52113
1,3-Dichlorobenzene	ND (0.0010)		8260B		1	12/18/15 18:10	CYL0296	CL52113
1,3-Dichloropropane	ND (0.0010)		8260B		1	12/18/15 18:10	CYL0296	CL52113
1,4-Dichlorobenzene	ND (0.0010)		8260B		1	12/18/15 18:10	CYL0296	CL52113
1,4-Dioxane - Screen	ND (0.500)		8260B		1	12/18/15 18:10	CYL0296	CL52113
1-Chlorohexane	ND (0.0010)		8260B		1	12/18/15 18:10	CYL0296	CL52113
2,2-Dichloropropane	ND (0.0010)		8260B		1	12/18/15 18:10	CYL0296	CL52113
2-Butanone	ND (0.0100)		8260B		1	12/18/15 18:10	CYL0296	CL52113
2-Chlorotoluene	ND (0.0010)		8260B		1	12/18/15 18:10	CYL0296	CL52113
2-Hexanone	ND (0.0100)		8260B		1	12/18/15 18:10	CYL0296	CL52113
4-Chlorotoluene	ND (0.0010)		8260B		1	12/18/15 18:10	CYL0296	CL52113
4-Isopropyltoluene	ND (0.0010)		8260B		1	12/18/15 18:10	CYL0296	CL52113
4-Methyl-2-Pentanone	ND (0.0250)		8260B		1	12/18/15 18:10	CYL0296	CL52113
Acetone	ND (0.0100)		8260B		1	12/18/15 18:10	CYL0296	CL52113
Benzene	ND (0.0010)		8260B		1	12/18/15 18:10	CYL0296	CL52113
Bromobenzene	ND (0.0020)		8260B		1	12/18/15 18:10	CYL0296	CL52113



CERTIFICATE OF ANALYSIS

Client Name: AMEC Foster Wheeler
Client Project ID: Textron Gorham - Groundwater
Client Sample ID: MW-D
Date Sampled: 12/17/15 09:30
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1512468
ESS Laboratory Sample ID: 1512468-06
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Bromochloromethane	ND (0.0010)		8260B		1	12/18/15 18:10	CYL0296	CL52113
Bromodichloromethane	ND (0.0006)		8260B		1	12/18/15 18:10	CYL0296	CL52113
Bromoform	ND (0.0010)		8260B		1	12/18/15 18:10	CYL0296	CL52113
Bromomethane	ND (0.0020)		8260B		1	12/18/15 18:10	CYL0296	CL52113
Carbon Disulfide	ND (0.0010)		8260B		1	12/18/15 18:10	CYL0296	CL52113
Carbon Tetrachloride	ND (0.0010)		8260B		1	12/18/15 18:10	CYL0296	CL52113
Chlorobenzene	ND (0.0010)		8260B		1	12/18/15 18:10	CYL0296	CL52113
Chloroethane	ND (0.0020)		8260B		1	12/18/15 18:10	CYL0296	CL52113
Chloroform	ND (0.0010)		8260B		1	12/18/15 18:10	CYL0296	CL52113
Chloromethane	ND (0.0020)		8260B		1	12/18/15 18:10	CYL0296	CL52113
cis-1,2-Dichloroethene	0.136 (0.0500)		8260B		50	12/21/15 17:08	CYL0296	CL52113
cis-1,3-Dichloropropene	ND (0.0004)		8260B		1	12/18/15 18:10	CYL0296	CL52113
Dibromochloromethane	ND (0.0010)		8260B		1	12/18/15 18:10	CYL0296	CL52113
Dibromomethane	ND (0.0010)		8260B		1	12/18/15 18:10	CYL0296	CL52113
Dichlorodifluoromethane	ND (0.0020)		8260B		1	12/18/15 18:10	CYL0296	CL52113
Diethyl Ether	ND (0.0010)		8260B		1	12/18/15 18:10	CYL0296	CL52113
Di-isopropyl ether	ND (0.0010)		8260B		1	12/18/15 18:10	CYL0296	CL52113
Ethyl tertiary-butyl ether	ND (0.0010)		8260B		1	12/18/15 18:10	CYL0296	CL52113
Ethylbenzene	ND (0.0010)		8260B		1	12/18/15 18:10	CYL0296	CL52113
Hexachlorobutadiene	ND (0.0006)		8260B		1	12/18/15 18:10	CYL0296	CL52113
Hexachloroethane	ND (0.0010)		8260B		1	12/18/15 18:10	CYL0296	CL52113
Isopropylbenzene	ND (0.0010)		8260B		1	12/18/15 18:10	CYL0296	CL52113
Methyl tert-Butyl Ether	ND (0.0010)		8260B		1	12/18/15 18:10	CYL0296	CL52113
Methylene Chloride	ND (0.0020)		8260B		1	12/18/15 18:10	CYL0296	CL52113
Naphthalene	ND (0.0010)		8260B		1	12/18/15 18:10	CYL0296	CL52113
n-Butylbenzene	ND (0.0010)		8260B		1	12/18/15 18:10	CYL0296	CL52113
n-Propylbenzene	ND (0.0010)		8260B		1	12/18/15 18:10	CYL0296	CL52113
sec-Butylbenzene	ND (0.0010)		8260B		1	12/18/15 18:10	CYL0296	CL52113
Styrene	ND (0.0010)		8260B		1	12/18/15 18:10	CYL0296	CL52113
tert-Butylbenzene	ND (0.0010)		8260B		1	12/18/15 18:10	CYL0296	CL52113
Tertiary-amyl methyl ether	ND (0.0010)		8260B		1	12/18/15 18:10	CYL0296	CL52113
Tetrachloroethene	0.0037 (0.0010)		8260B		1	12/18/15 18:10	CYL0296	CL52113



CERTIFICATE OF ANALYSIS

Client Name: AMEC Foster Wheeler
Client Project ID: Textron Gorham - Groundwater
Client Sample ID: MW-D
Date Sampled: 12/17/15 09:30
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1512468
ESS Laboratory Sample ID: 1512468-06
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Tetrahydrofuran	ND (0.0050)		8260B		1	12/18/15 18:10	CYL0296	CL52113
Toluene	ND (0.0010)		8260B		1	12/18/15 18:10	CYL0296	CL52113
trans-1,2-Dichloroethene	0.0040 (0.0010)		8260B		1	12/18/15 18:10	CYL0296	CL52113
trans-1,3-Dichloropropene	ND (0.0004)		8260B		1	12/18/15 18:10	CYL0296	CL52113
Trichloroethene	3.06 (0.0500)		8260B		50	12/21/15 17:08	CYL0296	CL52113
Trichlorofluoromethane	ND (0.0010)		8260B		1	12/18/15 18:10	CYL0296	CL52113
Vinyl Acetate	ND (0.0050)		8260B		1	12/18/15 18:10	CYL0296	CL52113
Vinyl Chloride	0.0034 (0.0010)		8260B		1	12/18/15 18:10	CYL0296	CL52113
Xylene O	ND (0.0010)		8260B		1	12/18/15 18:10	CYL0296	CL52113
Xylene P,M	ND (0.0020)		8260B		1	12/18/15 18:10	CYL0296	CL52113
Xylenes (Total)	ND (0.0020)		8260B		1	12/18/15 18:10		[CALC]
Trihalomethanes (Total)	ND (0.0010)		8260B			12/18/15 18:10		[CALC]

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>109 %</i>		<i>70-130</i>
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>107 %</i>		<i>70-130</i>
<i>Surrogate: Dibromofluoromethane</i>	<i>109 %</i>		<i>70-130</i>
<i>Surrogate: Toluene-d8</i>	<i>118 %</i>		<i>70-130</i>



CERTIFICATE OF ANALYSIS

Client Name: AMEC Foster Wheeler
Client Project ID: Textron Gorham - Groundwater
Client Sample ID: MW-237S
Date Sampled: 12/17/15 09:50
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1512468
ESS Laboratory Sample ID: 1512468-07
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1,1,2-Tetrachloroethane	ND (0.0010)		8260B		1	12/18/15 18:37	CYL0296	CL52113
1,1,1-Trichloroethane	ND (0.0010)		8260B		1	12/18/15 18:37	CYL0296	CL52113
1,1,2,2-Tetrachloroethane	ND (0.0005)		8260B		1	12/18/15 18:37	CYL0296	CL52113
1,1,2-Trichloroethane	ND (0.0010)		8260B		1	12/18/15 18:37	CYL0296	CL52113
1,1-Dichloroethane	ND (0.0010)		8260B		1	12/18/15 18:37	CYL0296	CL52113
1,1-Dichloroethene	0.0025 (0.0010)		8260B		1	12/18/15 18:37	CYL0296	CL52113
1,1-Dichloropropene	ND (0.0020)		8260B		1	12/18/15 18:37	CYL0296	CL52113
1,2,3-Trichlorobenzene	ND (0.0010)		8260B		1	12/18/15 18:37	CYL0296	CL52113
1,2,3-Trichloropropane	ND (0.0010)		8260B		1	12/18/15 18:37	CYL0296	CL52113
1,2,4-Trichlorobenzene	ND (0.0010)		8260B		1	12/18/15 18:37	CYL0296	CL52113
1,2,4-Trimethylbenzene	ND (0.0010)		8260B		1	12/18/15 18:37	CYL0296	CL52113
1,2-Dibromo-3-Chloropropane	ND (0.0050)		8260B		1	12/18/15 18:37	CYL0296	CL52113
1,2-Dibromoethane	ND (0.0010)		8260B		1	12/18/15 18:37	CYL0296	CL52113
1,2-Dichlorobenzene	ND (0.0010)		8260B		1	12/18/15 18:37	CYL0296	CL52113
1,2-Dichloroethane	0.0013 (0.0010)		8260B		1	12/18/15 18:37	CYL0296	CL52113
1,2-Dichloropropane	ND (0.0010)		8260B		1	12/18/15 18:37	CYL0296	CL52113
1,3,5-Trimethylbenzene	ND (0.0010)		8260B		1	12/18/15 18:37	CYL0296	CL52113
1,3-Dichlorobenzene	ND (0.0010)		8260B		1	12/18/15 18:37	CYL0296	CL52113
1,3-Dichloropropane	ND (0.0010)		8260B		1	12/18/15 18:37	CYL0296	CL52113
1,4-Dichlorobenzene	ND (0.0010)		8260B		1	12/18/15 18:37	CYL0296	CL52113
1,4-Dioxane - Screen	ND (0.500)		8260B		1	12/18/15 18:37	CYL0296	CL52113
1-Chlorohexane	ND (0.0010)		8260B		1	12/18/15 18:37	CYL0296	CL52113
2,2-Dichloropropane	ND (0.0010)		8260B		1	12/18/15 18:37	CYL0296	CL52113
2-Butanone	ND (0.0100)		8260B		1	12/18/15 18:37	CYL0296	CL52113
2-Chlorotoluene	ND (0.0010)		8260B		1	12/18/15 18:37	CYL0296	CL52113
2-Hexanone	ND (0.0100)		8260B		1	12/18/15 18:37	CYL0296	CL52113
4-Chlorotoluene	ND (0.0010)		8260B		1	12/18/15 18:37	CYL0296	CL52113
4-Isopropyltoluene	ND (0.0010)		8260B		1	12/18/15 18:37	CYL0296	CL52113
4-Methyl-2-Pentanone	ND (0.0250)		8260B		1	12/18/15 18:37	CYL0296	CL52113
Acetone	ND (0.0100)		8260B		1	12/18/15 18:37	CYL0296	CL52113
Benzene	ND (0.0010)		8260B		1	12/18/15 18:37	CYL0296	CL52113
Bromobenzene	ND (0.0020)		8260B		1	12/18/15 18:37	CYL0296	CL52113



CERTIFICATE OF ANALYSIS

Client Name: AMEC Foster Wheeler
Client Project ID: Textron Gorham - Groundwater
Client Sample ID: MW-237S
Date Sampled: 12/17/15 09:50
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1512468
ESS Laboratory Sample ID: 1512468-07
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Bromochloromethane	ND (0.0010)		8260B		1	12/18/15 18:37	CYL0296	CL52113
Bromodichloromethane	ND (0.0006)		8260B		1	12/18/15 18:37	CYL0296	CL52113
Bromoform	ND (0.0010)		8260B		1	12/18/15 18:37	CYL0296	CL52113
Bromomethane	ND (0.0020)		8260B		1	12/18/15 18:37	CYL0296	CL52113
Carbon Disulfide	ND (0.0010)		8260B		1	12/18/15 18:37	CYL0296	CL52113
Carbon Tetrachloride	ND (0.0010)		8260B		1	12/18/15 18:37	CYL0296	CL52113
Chlorobenzene	ND (0.0010)		8260B		1	12/18/15 18:37	CYL0296	CL52113
Chloroethane	ND (0.0020)		8260B		1	12/18/15 18:37	CYL0296	CL52113
Chloroform	ND (0.0010)		8260B		1	12/18/15 18:37	CYL0296	CL52113
Chloromethane	ND (0.0020)		8260B		1	12/18/15 18:37	CYL0296	CL52113
cis-1,2-Dichloroethene	0.0577 (0.0010)		8260B		1	12/18/15 18:37	CYL0296	CL52113
cis-1,3-Dichloropropene	ND (0.0004)		8260B		1	12/18/15 18:37	CYL0296	CL52113
Dibromochloromethane	ND (0.0010)		8260B		1	12/18/15 18:37	CYL0296	CL52113
Dibromomethane	ND (0.0010)		8260B		1	12/18/15 18:37	CYL0296	CL52113
Dichlorodifluoromethane	ND (0.0020)		8260B		1	12/18/15 18:37	CYL0296	CL52113
Diethyl Ether	ND (0.0010)		8260B		1	12/18/15 18:37	CYL0296	CL52113
Di-isopropyl ether	ND (0.0010)		8260B		1	12/18/15 18:37	CYL0296	CL52113
Ethyl tertiary-butyl ether	ND (0.0010)		8260B		1	12/18/15 18:37	CYL0296	CL52113
Ethylbenzene	ND (0.0010)		8260B		1	12/18/15 18:37	CYL0296	CL52113
Hexachlorobutadiene	ND (0.0006)		8260B		1	12/18/15 18:37	CYL0296	CL52113
Hexachloroethane	ND (0.0010)		8260B		1	12/18/15 18:37	CYL0296	CL52113
Isopropylbenzene	ND (0.0010)		8260B		1	12/18/15 18:37	CYL0296	CL52113
Methyl tert-Butyl Ether	ND (0.0010)		8260B		1	12/18/15 18:37	CYL0296	CL52113
Methylene Chloride	ND (0.0020)		8260B		1	12/18/15 18:37	CYL0296	CL52113
Naphthalene	ND (0.0010)		8260B		1	12/18/15 18:37	CYL0296	CL52113
n-Butylbenzene	ND (0.0010)		8260B		1	12/18/15 18:37	CYL0296	CL52113
n-Propylbenzene	ND (0.0010)		8260B		1	12/18/15 18:37	CYL0296	CL52113
sec-Butylbenzene	ND (0.0010)		8260B		1	12/18/15 18:37	CYL0296	CL52113
Styrene	ND (0.0010)		8260B		1	12/18/15 18:37	CYL0296	CL52113
tert-Butylbenzene	ND (0.0010)		8260B		1	12/18/15 18:37	CYL0296	CL52113
Tertiary-amyl methyl ether	ND (0.0010)		8260B		1	12/18/15 18:37	CYL0296	CL52113
Tetrachloroethene	0.0413 (0.0010)		8260B		1	12/18/15 18:37	CYL0296	CL52113



CERTIFICATE OF ANALYSIS

Client Name: AMEC Foster Wheeler
Client Project ID: Textron Gorham - Groundwater
Client Sample ID: MW-237S
Date Sampled: 12/17/15 09:50
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1512468
ESS Laboratory Sample ID: 1512468-07
Sample Matrix: Ground Water
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Tetrahydrofuran	ND (0.0050)		8260B		1	12/18/15 18:37	CYL0296	CL52113
Toluene	ND (0.0010)		8260B		1	12/18/15 18:37	CYL0296	CL52113
trans-1,2-Dichloroethene	0.0020 (0.0010)		8260B		1	12/18/15 18:37	CYL0296	CL52113
trans-1,3-Dichloropropene	ND (0.0004)		8260B		1	12/18/15 18:37	CYL0296	CL52113
Trichloroethene	0.269 (0.0100)		8260B		10	12/21/15 14:54	CYL0296	CL52113
Trichlorofluoromethane	ND (0.0010)		8260B		1	12/18/15 18:37	CYL0296	CL52113
Vinyl Acetate	ND (0.0050)		8260B		1	12/18/15 18:37	CYL0296	CL52113
Vinyl Chloride	ND (0.0010)		8260B		1	12/18/15 18:37	CYL0296	CL52113
Xylene O	ND (0.0010)		8260B		1	12/18/15 18:37	CYL0296	CL52113
Xylene P,M	ND (0.0020)		8260B		1	12/18/15 18:37	CYL0296	CL52113
Xylenes (Total)	ND (0.0020)		8260B		1	12/18/15 18:37		[CALC]
Trihalomethanes (Total)	ND (0.0010)		8260B			12/18/15 18:37		[CALC]

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>110 %</i>		<i>70-130</i>
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>114 %</i>		<i>70-130</i>
<i>Surrogate: Dibromofluoromethane</i>	<i>110 %</i>		<i>70-130</i>
<i>Surrogate: Toluene-d8</i>	<i>117 %</i>		<i>70-130</i>



CERTIFICATE OF ANALYSIS

Client Name: AMEC Foster Wheeler
Client Project ID: Textron Gorham - Groundwater
Client Sample ID: Trip Blank-01
Date Sampled: 12/17/15 00:00
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1512468
ESS Laboratory Sample ID: 1512468-08
Sample Matrix: Aqueous
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1,1,2-Tetrachloroethane	ND (0.0010)		8260B		1	12/18/15 15:29	CYL0296	CL52113
1,1,1-Trichloroethane	ND (0.0010)		8260B		1	12/18/15 15:29	CYL0296	CL52113
1,1,2,2-Tetrachloroethane	ND (0.0005)		8260B		1	12/18/15 15:29	CYL0296	CL52113
1,1,2-Trichloroethane	ND (0.0010)		8260B		1	12/18/15 15:29	CYL0296	CL52113
1,1-Dichloroethane	ND (0.0010)		8260B		1	12/18/15 15:29	CYL0296	CL52113
1,1-Dichloroethene	ND (0.0010)		8260B		1	12/18/15 15:29	CYL0296	CL52113
1,1-Dichloropropene	ND (0.0020)		8260B		1	12/18/15 15:29	CYL0296	CL52113
1,2,3-Trichlorobenzene	ND (0.0010)		8260B		1	12/18/15 15:29	CYL0296	CL52113
1,2,3-Trichloropropane	ND (0.0010)		8260B		1	12/18/15 15:29	CYL0296	CL52113
1,2,4-Trichlorobenzene	ND (0.0010)		8260B		1	12/18/15 15:29	CYL0296	CL52113
1,2,4-Trimethylbenzene	ND (0.0010)		8260B		1	12/18/15 15:29	CYL0296	CL52113
1,2-Dibromo-3-Chloropropane	ND (0.0050)		8260B		1	12/18/15 15:29	CYL0296	CL52113
1,2-Dibromoethane	ND (0.0010)		8260B		1	12/18/15 15:29	CYL0296	CL52113
1,2-Dichlorobenzene	ND (0.0010)		8260B		1	12/18/15 15:29	CYL0296	CL52113
1,2-Dichloroethane	ND (0.0010)		8260B		1	12/18/15 15:29	CYL0296	CL52113
1,2-Dichloropropane	ND (0.0010)		8260B		1	12/18/15 15:29	CYL0296	CL52113
1,3,5-Trimethylbenzene	ND (0.0010)		8260B		1	12/18/15 15:29	CYL0296	CL52113
1,3-Dichlorobenzene	ND (0.0010)		8260B		1	12/18/15 15:29	CYL0296	CL52113
1,3-Dichloropropane	ND (0.0010)		8260B		1	12/18/15 15:29	CYL0296	CL52113
1,4-Dichlorobenzene	ND (0.0010)		8260B		1	12/18/15 15:29	CYL0296	CL52113
1,4-Dioxane - Screen	ND (0.500)		8260B		1	12/18/15 15:29	CYL0296	CL52113
1-Chlorohexane	ND (0.0010)		8260B		1	12/18/15 15:29	CYL0296	CL52113
2,2-Dichloropropane	ND (0.0010)		8260B		1	12/18/15 15:29	CYL0296	CL52113
2-Butanone	ND (0.0100)		8260B		1	12/18/15 15:29	CYL0296	CL52113
2-Chlorotoluene	ND (0.0010)		8260B		1	12/18/15 15:29	CYL0296	CL52113
2-Hexanone	ND (0.0100)		8260B		1	12/18/15 15:29	CYL0296	CL52113
4-Chlorotoluene	ND (0.0010)		8260B		1	12/18/15 15:29	CYL0296	CL52113
4-Isopropyltoluene	ND (0.0010)		8260B		1	12/18/15 15:29	CYL0296	CL52113
4-Methyl-2-Pentanone	ND (0.0250)		8260B		1	12/18/15 15:29	CYL0296	CL52113
Acetone	ND (0.0100)		8260B		1	12/18/15 15:29	CYL0296	CL52113
Benzene	ND (0.0010)		8260B		1	12/18/15 15:29	CYL0296	CL52113
Bromobenzene	ND (0.0020)		8260B		1	12/18/15 15:29	CYL0296	CL52113



CERTIFICATE OF ANALYSIS

Client Name: AMEC Foster Wheeler
Client Project ID: Textron Gorham - Groundwater
Client Sample ID: Trip Blank-01
Date Sampled: 12/17/15 00:00
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1512468
ESS Laboratory Sample ID: 1512468-08
Sample Matrix: Aqueous
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Bromochloromethane	ND (0.0010)		8260B		1	12/18/15 15:29	CYL0296	CL52113
Bromodichloromethane	ND (0.0006)		8260B		1	12/18/15 15:29	CYL0296	CL52113
Bromoform	ND (0.0010)		8260B		1	12/18/15 15:29	CYL0296	CL52113
Bromomethane	ND (0.0020)		8260B		1	12/18/15 15:29	CYL0296	CL52113
Carbon Disulfide	ND (0.0010)		8260B		1	12/18/15 15:29	CYL0296	CL52113
Carbon Tetrachloride	ND (0.0010)		8260B		1	12/18/15 15:29	CYL0296	CL52113
Chlorobenzene	ND (0.0010)		8260B		1	12/18/15 15:29	CYL0296	CL52113
Chloroethane	ND (0.0020)		8260B		1	12/18/15 15:29	CYL0296	CL52113
Chloroform	ND (0.0010)		8260B		1	12/18/15 15:29	CYL0296	CL52113
Chloromethane	ND (0.0020)		8260B		1	12/18/15 15:29	CYL0296	CL52113
cis-1,2-Dichloroethene	ND (0.0010)		8260B		1	12/18/15 15:29	CYL0296	CL52113
cis-1,3-Dichloropropene	ND (0.0004)		8260B		1	12/18/15 15:29	CYL0296	CL52113
Dibromochloromethane	ND (0.0010)		8260B		1	12/18/15 15:29	CYL0296	CL52113
Dibromomethane	ND (0.0010)		8260B		1	12/18/15 15:29	CYL0296	CL52113
Dichlorodifluoromethane	ND (0.0020)		8260B		1	12/18/15 15:29	CYL0296	CL52113
Diethyl Ether	ND (0.0010)		8260B		1	12/18/15 15:29	CYL0296	CL52113
Di-isopropyl ether	ND (0.0010)		8260B		1	12/18/15 15:29	CYL0296	CL52113
Ethyl tertiary-butyl ether	ND (0.0010)		8260B		1	12/18/15 15:29	CYL0296	CL52113
Ethylbenzene	ND (0.0010)		8260B		1	12/18/15 15:29	CYL0296	CL52113
Hexachlorobutadiene	ND (0.0006)		8260B		1	12/18/15 15:29	CYL0296	CL52113
Hexachloroethane	ND (0.0010)		8260B		1	12/18/15 15:29	CYL0296	CL52113
Isopropylbenzene	ND (0.0010)		8260B		1	12/18/15 15:29	CYL0296	CL52113
Methyl tert-Butyl Ether	ND (0.0010)		8260B		1	12/18/15 15:29	CYL0296	CL52113
Methylene Chloride	ND (0.0020)		8260B		1	12/18/15 15:29	CYL0296	CL52113
Naphthalene	ND (0.0010)		8260B		1	12/18/15 15:29	CYL0296	CL52113
n-Butylbenzene	ND (0.0010)		8260B		1	12/18/15 15:29	CYL0296	CL52113
n-Propylbenzene	ND (0.0010)		8260B		1	12/18/15 15:29	CYL0296	CL52113
sec-Butylbenzene	ND (0.0010)		8260B		1	12/18/15 15:29	CYL0296	CL52113
Styrene	ND (0.0010)		8260B		1	12/18/15 15:29	CYL0296	CL52113
tert-Butylbenzene	ND (0.0010)		8260B		1	12/18/15 15:29	CYL0296	CL52113
Tertiary-amyl methyl ether	ND (0.0010)		8260B		1	12/18/15 15:29	CYL0296	CL52113
Tetrachloroethene	ND (0.0010)		8260B		1	12/18/15 15:29	CYL0296	CL52113



CERTIFICATE OF ANALYSIS

Client Name: AMEC Foster Wheeler
Client Project ID: Textron Gorham - Groundwater
Client Sample ID: Trip Blank-01
Date Sampled: 12/17/15 00:00
Percent Solids: N/A
Initial Volume: 5
Final Volume: 5
Extraction Method: 5030B

ESS Laboratory Work Order: 1512468
ESS Laboratory Sample ID: 1512468-08
Sample Matrix: Aqueous
Units: mg/L
Analyst: MD

8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Tetrahydrofuran	ND (0.0050)		8260B		1	12/18/15 15:29	CYL0296	CL52113
Toluene	ND (0.0010)		8260B		1	12/18/15 15:29	CYL0296	CL52113
trans-1,2-Dichloroethene	ND (0.0010)		8260B		1	12/18/15 15:29	CYL0296	CL52113
trans-1,3-Dichloropropene	ND (0.0004)		8260B		1	12/18/15 15:29	CYL0296	CL52113
Trichloroethene	ND (0.0010)		8260B		1	12/18/15 15:29	CYL0296	CL52113
Trichlorofluoromethane	ND (0.0010)		8260B		1	12/18/15 15:29	CYL0296	CL52113
Vinyl Acetate	ND (0.0050)		8260B		1	12/18/15 15:29	CYL0296	CL52113
Vinyl Chloride	ND (0.0010)		8260B		1	12/18/15 15:29	CYL0296	CL52113
Xylene O	ND (0.0010)		8260B		1	12/18/15 15:29	CYL0296	CL52113
Xylene P,M	ND (0.0020)		8260B		1	12/18/15 15:29	CYL0296	CL52113

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>105 %</i>		<i>70-130</i>
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>113 %</i>		<i>70-130</i>
<i>Surrogate: Dibromofluoromethane</i>	<i>108 %</i>		<i>70-130</i>
<i>Surrogate: Toluene-d8</i>	<i>120 %</i>		<i>70-130</i>



CERTIFICATE OF ANALYSIS

Client Name: AMEC Foster Wheeler
Client Project ID: Textron Gorham - Groundwater

ESS Laboratory Work Order: 1512468

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8260B Volatile Organic Compounds

Batch CL52113 - 5030B

Blank

1,1,1,2-Tetrachloroethane	ND	0.0010	mg/L							
1,1,1-Trichloroethane	ND	0.0010	mg/L							
1,1,2,2-Tetrachloroethane	ND	0.0005	mg/L							
1,1,2-Trichloroethane	ND	0.0010	mg/L							
1,1-Dichloroethane	ND	0.0010	mg/L							
1,1-Dichloroethene	ND	0.0010	mg/L							
1,1-Dichloropropene	ND	0.0020	mg/L							
1,2,3-Trichlorobenzene	ND	0.0010	mg/L							
1,2,3-Trichloropropane	ND	0.0010	mg/L							
1,2,4-Trichlorobenzene	ND	0.0010	mg/L							
1,2,4-Trimethylbenzene	ND	0.0010	mg/L							
1,2-Dibromo-3-Chloropropane	ND	0.0050	mg/L							
1,2-Dibromoethane	ND	0.0010	mg/L							
1,2-Dichlorobenzene	ND	0.0010	mg/L							
1,2-Dichloroethane	ND	0.0010	mg/L							
1,2-Dichloropropane	ND	0.0010	mg/L							
1,3,5-Trimethylbenzene	ND	0.0010	mg/L							
1,3-Dichlorobenzene	ND	0.0010	mg/L							
1,3-Dichloropropane	ND	0.0010	mg/L							
1,4-Dichlorobenzene	ND	0.0010	mg/L							
1,4-Dioxane - Screen	ND	0.500	mg/L							
1-Chlorohexane	ND	0.0010	mg/L							
2,2-Dichloropropane	ND	0.0010	mg/L							
2-Butanone	ND	0.0100	mg/L							
2-Chlorotoluene	ND	0.0010	mg/L							
2-Hexanone	ND	0.0100	mg/L							
4-Chlorotoluene	ND	0.0010	mg/L							
4-Isopropyltoluene	ND	0.0010	mg/L							
4-Methyl-2-Pentanone	ND	0.0250	mg/L							
Acetone	ND	0.0100	mg/L							
Benzene	ND	0.0010	mg/L							
Bromobenzene	ND	0.0020	mg/L							
Bromochloromethane	ND	0.0010	mg/L							
Bromodichloromethane	ND	0.0006	mg/L							
Bromoform	ND	0.0010	mg/L							
Bromomethane	ND	0.0020	mg/L							
Carbon Disulfide	ND	0.0010	mg/L							
Carbon Tetrachloride	ND	0.0010	mg/L							
Chlorobenzene	ND	0.0010	mg/L							
Chloroethane	ND	0.0020	mg/L							
Chloroform	ND	0.0010	mg/L							
Chloromethane	ND	0.0020	mg/L							
cis-1,2-Dichloroethene	ND	0.0010	mg/L							
cis-1,3-Dichloropropene	ND	0.0004	mg/L							



CERTIFICATE OF ANALYSIS

Client Name: AMEC Foster Wheeler
Client Project ID: Textron Gorham - Groundwater

ESS Laboratory Work Order: 1512468

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8260B Volatile Organic Compounds

Batch CL52113 - 5030B

Dibromochloromethane	ND	0.0010	mg/L							
Dibromomethane	ND	0.0010	mg/L							
Dichlorodifluoromethane	ND	0.0020	mg/L							
Diethyl Ether	ND	0.0010	mg/L							
Di-isopropyl ether	ND	0.0010	mg/L							
Ethyl tertiary-butyl ether	ND	0.0010	mg/L							
Ethylbenzene	ND	0.0010	mg/L							
Hexachlorobutadiene	ND	0.0006	mg/L							
Hexachloroethane	ND	0.0010	mg/L							
Isopropylbenzene	ND	0.0010	mg/L							
Methyl tert-Butyl Ether	ND	0.0010	mg/L							
Methylene Chloride	ND	0.0020	mg/L							
Naphthalene	ND	0.0010	mg/L							
n-Butylbenzene	ND	0.0010	mg/L							
n-Propylbenzene	ND	0.0010	mg/L							
sec-Butylbenzene	ND	0.0010	mg/L							
Styrene	ND	0.0010	mg/L							
tert-Butylbenzene	ND	0.0010	mg/L							
Tertiary-amyl methyl ether	ND	0.0010	mg/L							
Tetrachloroethene	ND	0.0010	mg/L							
Tetrahydrofuran	ND	0.0050	mg/L							
Toluene	ND	0.0010	mg/L							
trans-1,2-Dichloroethene	ND	0.0010	mg/L							
trans-1,3-Dichloropropene	ND	0.0004	mg/L							
Trichloroethene	ND	0.0010	mg/L							
Trichlorofluoromethane	ND	0.0010	mg/L							
Trihalomethanes (Total)	ND	0.0010	mg/L							
Vinyl Acetate	ND	0.0050	mg/L							
Vinyl Chloride	ND	0.0010	mg/L							
Xylene O	ND	0.0010	mg/L							
Xylene P,M	ND	0.0020	mg/L							
Xylenes (Total)	ND	0.0020	mg/L							
Surrogate: 1,2-Dichloroethane-d4	0.0269		mg/L	0.02500		107	70-130			
Surrogate: 4-Bromofluorobenzene	0.0278		mg/L	0.02500		111	70-130			
Surrogate: Dibromofluoromethane	0.0278		mg/L	0.02500		111	70-130			
Surrogate: Toluene-d8	0.0301		mg/L	0.02500		120	70-130			

LCS

1,1,1,2-Tetrachloroethane	9.42		ug/L	10.00		94	70-130			
1,1,1-Trichloroethane	11.2		ug/L	10.00		112	70-130			
1,1,2,2-Tetrachloroethane	10.8		ug/L	10.00		108	70-130			
1,1,2-Trichloroethane	10.7		ug/L	10.00		107	70-130			
1,1-Dichloroethane	11.2		ug/L	10.00		112	70-130			
1,1-Dichloroethene	11.9		ug/L	10.00		119	70-130			
1,1-Dichloropropene	11.0		ug/L	10.00		110	70-130			
1,2,3-Trichlorobenzene	12.2		ug/L	10.00		122	70-130			



CERTIFICATE OF ANALYSIS

Client Name: AMEC Foster Wheeler
Client Project ID: Textron Gorham - Groundwater

ESS Laboratory Work Order: 1512468

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8260B Volatile Organic Compounds

Batch CL52113 - 5030B

1,2,3-Trichloropropane	11.6		ug/L	10.00		116	70-130			
1,2,4-Trichlorobenzene	12.3		ug/L	10.00		123	70-130			
1,2,4-Trimethylbenzene	10.6		ug/L	10.00		106	70-130			
1,2-Dibromo-3-Chloropropane	11.1		ug/L	10.00		111	70-130			
1,2-Dibromoethane	10.4		ug/L	10.00		104	70-130			
1,2-Dichlorobenzene	10.6		ug/L	10.00		106	70-130			
1,2-Dichloroethane	10.7		ug/L	10.00		107	70-130			
1,2-Dichloropropane	10.7		ug/L	10.00		107	70-130			
1,3,5-Trimethylbenzene	11.9		ug/L	10.00		119	70-130			
1,3-Dichlorobenzene	11.1		ug/L	10.00		111	70-130			
1,3-Dichloropropane	10.6		ug/L	10.00		106	70-130			
1,4-Dichlorobenzene	10.9		ug/L	10.00		109	70-130			
1,4-Dioxane - Screen	400		ug/L	200.0		200	0-332			
1-Chlorohexane	10.8		ug/L	10.00		108	70-130			
2,2-Dichloropropane	11.6		ug/L	10.00		116	70-130			
2-Butanone	61.7		ug/L	50.00		123	70-130			
2-Chlorotoluene	11.3		ug/L	10.00		113	70-130			
2-Hexanone	62.9		ug/L	50.00		126	70-130			
4-Chlorotoluene	11.6		ug/L	10.00		116	70-130			
4-Isopropyltoluene	11.8		ug/L	10.00		118	70-130			
4-Methyl-2-Pentanone	61.4		ug/L	50.00		123	70-130			
Acetone	60.3		ug/L	50.00		121	70-130			
Benzene	11.0		ug/L	10.00		110	70-130			
Bromobenzene	10.5		ug/L	10.00		105	70-130			
Bromochloromethane	11.0		ug/L	10.00		110	70-130			
Bromodichloromethane	11.2		ug/L	10.00		112	70-130			
Bromoform	9.74		ug/L	10.00		97	70-130			
Bromomethane	10.8		ug/L	10.00		108	70-130			
Carbon Disulfide	11.1		ug/L	10.00		111	70-130			
Carbon Tetrachloride	10.4		ug/L	10.00		104	70-130			
Chlorobenzene	10.6		ug/L	10.00		106	70-130			
Chloroethane	8.47		ug/L	10.00		85	70-130			
Chloroform	10.9		ug/L	10.00		109	70-130			
Chloromethane	10.1		ug/L	10.00		101	70-130			
cis-1,2-Dichloroethene	11.3		ug/L	10.00		113	70-130			
cis-1,3-Dichloropropene	10.6		ug/L	10.00		106	70-130			
Dibromochloromethane	9.99		ug/L	10.00		100	70-130			
Dibromomethane	9.97		ug/L	10.00		100	70-130			
Dichlorodifluoromethane	9.79		ug/L	10.00		98	70-130			
Diethyl Ether	11.2		ug/L	10.00		112	70-130			
Di-isopropyl ether	12.1		ug/L	10.00		121	70-130			
Ethyl tertiary-butyl ether	11.0		ug/L	10.00		110	70-130			
Ethylbenzene	10.7		ug/L	10.00		107	70-130			
Hexachlorobutadiene	11.4		ug/L	10.00		114	70-130			
Hexachloroethane	10.6		ug/L	10.00		106	70-130			



CERTIFICATE OF ANALYSIS

Client Name: AMEC Foster Wheeler
Client Project ID: Textron Gorham - Groundwater

ESS Laboratory Work Order: 1512468

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8260B Volatile Organic Compounds

Batch CL52113 - 5030B

Isopropylbenzene	11.8		ug/L	10.00		118	70-130			
Methyl tert-Butyl Ether	11.4		ug/L	10.00		114	70-130			
Methylene Chloride	11.3		ug/L	10.00		113	70-130			
Naphthalene	11.4		ug/L	10.00		114	70-130			
n-Butylbenzene	11.9		ug/L	10.00		119	70-130			
n-Propylbenzene	11.9		ug/L	10.00		119	70-130			
sec-Butylbenzene	12.0		ug/L	10.00		120	70-130			
Styrene	10.3		ug/L	10.00		103	70-130			
tert-Butylbenzene	11.7		ug/L	10.00		117	70-130			
Tertiary-amyl methyl ether	10.9		ug/L	10.00		109	70-130			
Tetrachloroethene	8.84		ug/L	10.00		88	70-130			
Tetrahydrofuran	12.0		ug/L	10.00		120	70-130			
Toluene	10.4		ug/L	10.00		104	70-130			
trans-1,2-Dichloroethene	11.8		ug/L	10.00		118	70-130			
trans-1,3-Dichloropropene	9.87		ug/L	10.00		99	70-130			
Trichloroethene	10.1		ug/L	10.00		101	70-130			
Trichlorofluoromethane	9.79		ug/L	10.00		98	70-130			
Trihalomethanes (Total)	41.8		mg/L							
Vinyl Acetate	10.1		ug/L	10.00		101	70-130			
Vinyl Chloride	11.3		ug/L	10.00		113	70-130			
Xylene O	11.0		ug/L	10.00		110	70-130			
Xylene P,M	21.6		ug/L	20.00		108	70-130			
Xylenes (Total)	32.6		mg/L							
Surrogate: 1,2-Dichloroethane-d4	0.0275		mg/L	0.02500		110	70-130			
Surrogate: 4-Bromofluorobenzene	0.0263		mg/L	0.02500		105	70-130			
Surrogate: Dibromofluoromethane	0.0285		mg/L	0.02500		114	70-130			
Surrogate: Toluene-d8	0.0276		mg/L	0.02500		110	70-130			

LCS Dup

1,1,1,2-Tetrachloroethane	9.44		ug/L	10.00		94	70-130	0.2	25	
1,1,1-Trichloroethane	10.7		ug/L	10.00		107	70-130	5	25	
1,1,2,2-Tetrachloroethane	10.2		ug/L	10.00		102	70-130	7	25	
1,1,2-Trichloroethane	9.34		ug/L	10.00		93	70-130	14	25	
1,1-Dichloroethane	10.4		ug/L	10.00		104	70-130	8	25	
1,1-Dichloroethene	11.0		ug/L	10.00		110	70-130	8	25	
1,1-Dichloropropene	10.4		ug/L	10.00		104	70-130	6	25	
1,2,3-Trichlorobenzene	10.6		ug/L	10.00		106	70-130	14	25	
1,2,3-Trichloropropane	10.1		ug/L	10.00		101	70-130	14	25	
1,2,4-Trichlorobenzene	10.1		ug/L	10.00		101	70-130	20	25	
1,2,4-Trimethylbenzene	10.2		ug/L	10.00		102	70-130	3	25	
1,2-Dibromo-3-Chloropropane	10.3		ug/L	10.00		103	70-130	8	25	
1,2-Dibromoethane	9.39		ug/L	10.00		94	70-130	10	25	
1,2-Dichlorobenzene	10.5		ug/L	10.00		105	70-130	1	25	
1,2-Dichloroethane	9.76		ug/L	10.00		98	70-130	10	25	
1,2-Dichloropropane	10.2		ug/L	10.00		102	70-130	4	25	
1,3,5-Trimethylbenzene	10.8		ug/L	10.00		108	70-130	10	25	



CERTIFICATE OF ANALYSIS

Client Name: AMEC Foster Wheeler
Client Project ID: Textron Gorham - Groundwater

ESS Laboratory Work Order: 1512468

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8260B Volatile Organic Compounds

Batch CL52113 - 5030B

1,3-Dichlorobenzene	10.1		ug/L	10.00		101	70-130	10	25	
1,3-Dichloropropane	10.0		ug/L	10.00		100	70-130	6	25	
1,4-Dichlorobenzene	9.88		ug/L	10.00		99	70-130	10	25	
1,4-Dioxane - Screen	243		ug/L	200.0		122	0-332	49	200	
1-Chlorohexane	9.65		ug/L	10.00		96	70-130	12	25	
2,2-Dichloropropane	10.5		ug/L	10.00		105	70-130	10	25	
2-Butanone	55.4		ug/L	50.00		111	70-130	11	25	
2-Chlorotoluene	11.0		ug/L	10.00		110	70-130	2	25	
2-Hexanone	54.6		ug/L	50.00		109	70-130	14	25	
4-Chlorotoluene	11.1		ug/L	10.00		111	70-130	5	25	
4-Isopropyltoluene	9.96		ug/L	10.00		100	70-130	17	25	
4-Methyl-2-Pentanone	55.1		ug/L	50.00		110	70-130	11	25	
Acetone	50.5		ug/L	50.00		101	70-130	18	25	
Benzene	10.1		ug/L	10.00		101	70-130	9	25	
Bromobenzene	9.56		ug/L	10.00		96	70-130	9	25	
Bromochloromethane	9.60		ug/L	10.00		96	70-130	14	25	
Bromodichloromethane	10.4		ug/L	10.00		104	70-130	7	25	
Bromoform	9.20		ug/L	10.00		92	70-130	6	25	
Bromomethane	11.1		ug/L	10.00		111	70-130	2	25	
Carbon Disulfide	10.5		ug/L	10.00		105	70-130	5	25	
Carbon Tetrachloride	9.90		ug/L	10.00		99	70-130	5	25	
Chlorobenzene	9.90		ug/L	10.00		99	70-130	7	25	
Chloroethane	8.84		ug/L	10.00		88	70-130	4	25	
Chloroform	10.2		ug/L	10.00		102	70-130	7	25	
Chloromethane	9.07		ug/L	10.00		91	70-130	10	25	
cis-1,2-Dichloroethene	9.99		ug/L	10.00		100	70-130	13	25	
cis-1,3-Dichloropropene	10.0		ug/L	10.00		100	70-130	6	25	
Dibromochloromethane	9.19		ug/L	10.00		92	70-130	8	25	
Dibromomethane	9.61		ug/L	10.00		96	70-130	4	25	
Dichlorodifluoromethane	9.51		ug/L	10.00		95	70-130	3	25	
Diethyl Ether	10.1		ug/L	10.00		101	70-130	11	25	
Di-isopropyl ether	10.8		ug/L	10.00		108	70-130	12	25	
Ethyl tertiary-butyl ether	10.4		ug/L	10.00		104	70-130	5	25	
Ethylbenzene	10.1		ug/L	10.00		101	70-130	5	25	
Hexachlorobutadiene	10.2		ug/L	10.00		102	70-130	12	25	
Hexachloroethane	9.24		ug/L	10.00		92	70-130	14	25	
Isopropylbenzene	11.1		ug/L	10.00		111	70-130	6	25	
Methyl tert-Butyl Ether	9.95		ug/L	10.00		100	70-130	13	25	
Methylene Chloride	10.1		ug/L	10.00		101	70-130	11	25	
Naphthalene	9.73		ug/L	10.00		97	70-130	15	25	
n-Butylbenzene	10.6		ug/L	10.00		106	70-130	12	25	
n-Propylbenzene	11.4		ug/L	10.00		114	70-130	4	25	
sec-Butylbenzene	10.8		ug/L	10.00		108	70-130	10	25	
Styrene	9.65		ug/L	10.00		96	70-130	6	25	
tert-Butylbenzene	10.4		ug/L	10.00		104	70-130	12	25	



CERTIFICATE OF ANALYSIS

Client Name: AMEC Foster Wheeler
Client Project ID: Textron Gorham - Groundwater

ESS Laboratory Work Order: 1512468

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8260B Volatile Organic Compounds

Batch CL52113 - 5030B

Tertiary-amyl methyl ether	9.95		ug/L	10.00		100	70-130	9	25	
Tetrachloroethene	8.63		ug/L	10.00		86	70-130	2	25	
Tetrahydrofuran	8.97		ug/L	10.00		90	70-130	29	25	D+
Toluene	10.2		ug/L	10.00		102	70-130	2	25	
trans-1,2-Dichloroethene	10.9		ug/L	10.00		109	70-130	8	25	
trans-1,3-Dichloropropene	8.74		ug/L	10.00		87	70-130	12	25	
Trichloroethene	9.71		ug/L	10.00		97	70-130	4	25	
Trichlorofluoromethane	9.45		ug/L	10.00		94	70-130	4	25	
Trihalomethanes (Total)	39.0		mg/L							
Vinyl Acetate	9.26		ug/L	10.00		93	70-130	9	25	
Vinyl Chloride	11.0		ug/L	10.00		110	70-130	3	25	
Xylene O	9.57		ug/L	10.00		96	70-130	14	25	
Xylene P,M	20.0		ug/L	20.00		100	70-130	7	25	
Xylenes (Total)	29.6		mg/L							
Surrogate: 1,2-Dichloroethane-d4	0.0276		mg/L	0.02500		110	70-130			
Surrogate: 4-Bromofluorobenzene	0.0256		mg/L	0.02500		103	70-130			
Surrogate: Dibromofluoromethane	0.0271		mg/L	0.02500		108	70-130			
Surrogate: Toluene-d8	0.0272		mg/L	0.02500		109	70-130			

Matrix Spike Source: 1512468-01

1,1,1,2-Tetrachloroethane	9.15		ug/L	10.00	ND	92	70-130			
1,1,1-Trichloroethane	10.7		ug/L	10.00	0.130	106	70-130			
1,1,2,2-Tetrachloroethane	11.1		ug/L	10.00	ND	111	70-130			
1,1,2-Trichloroethane	11.7		ug/L	10.00	0.800	109	70-130			
1,1-Dichloroethane	10.3		ug/L	10.00	ND	103	70-130			
1,1-Dichloroethene	12.9		ug/L	10.00	1.30	116	70-130			
1,1-Dichloropropene	10.8		ug/L	10.00	ND	108	70-130			
1,2,3-Trichlorobenzene	9.52		ug/L	10.00	ND	95	70-130			
1,2,3-Trichloropropane	10.2		ug/L	10.00	ND	102	70-130			
1,2,4-Trichlorobenzene	9.58		ug/L	10.00	ND	96	70-130			
1,2,4-Trimethylbenzene	9.84		ug/L	10.00	ND	98	70-130			
1,2-Dibromo-3-Chloropropane	9.85		ug/L	10.00	ND	98	70-130			
1,2-Dibromoethane	9.96		ug/L	10.00	ND	100	70-130			
1,2-Dichlorobenzene	10.6		ug/L	10.00	ND	106	70-130			
1,2-Dichloroethane	11.2		ug/L	10.00	0.240	110	70-130			
1,2-Dichloropropane	11.3		ug/L	10.00	ND	113	70-130			
1,3,5-Trimethylbenzene	10.6		ug/L	10.00	ND	106	70-130			
1,3-Dichlorobenzene	10.6		ug/L	10.00	ND	106	70-130			
1,3-Dichloropropane	10.6		ug/L	10.00	ND	106	70-130			
1,4-Dichlorobenzene	10.3		ug/L	10.00	ND	103	70-130			
1,4-Dioxane - Screen	160		ug/L	200.0	ND	80	0-332			
1-Chlorohexane	10.1		ug/L	10.00	ND	101	70-130			
2,2-Dichloropropane	10.0		ug/L	10.00	ND	100	70-130			
2-Butanone	59.3		ug/L	50.00	ND	119	70-130			
2-Chlorotoluene	11.3		ug/L	10.00	ND	113	70-130			
2-Hexanone	63.3		ug/L	50.00	ND	127	70-130			



CERTIFICATE OF ANALYSIS

Client Name: AMEC Foster Wheeler
Client Project ID: Textron Gorham - Groundwater

ESS Laboratory Work Order: 1512468

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8260B Volatile Organic Compounds

Batch CL52113 - 5030B

4-Chlorotoluene	11.3		ug/L	10.00	ND	113	70-130			
4-Isopropyltoluene	10.1		ug/L	10.00	ND	101	70-130			
4-Methyl-2-Pentanone	62.5		ug/L	50.00	ND	125	70-130			
Acetone	60.2		ug/L	50.00	2.74	115	70-130			
Benzene	10.9		ug/L	10.00	0.100	108	70-130			
Bromobenzene	10.3		ug/L	10.00	ND	103	70-130			
Bromochloromethane	10.2		ug/L	10.00	ND	102	70-130			
Bromodichloromethane	10.6		ug/L	10.00	ND	106	70-130			
Bromoform	8.14		ug/L	10.00	ND	81	70-130			
Bromomethane	4.69		ug/L	10.00	ND	47	70-130			M-
Carbon Disulfide	10.6		ug/L	10.00	ND	106	70-130			
Carbon Tetrachloride	9.80		ug/L	10.00	ND	98	70-130			
Chlorobenzene	10.9		ug/L	10.00	0.490	104	70-130			
Chloroethane	9.42		ug/L	10.00	ND	94	70-130			
Chloroform	10.8		ug/L	10.00	0.200	106	70-130			
Chloromethane	9.68		ug/L	10.00	ND	97	70-130			
cis-1,2-Dichloroethene	43.3		ug/L	10.00	34.6	87	70-130			
cis-1,3-Dichloropropene	9.86		ug/L	10.00	ND	99	70-130			
Dibromochloromethane	8.98		ug/L	10.00	ND	90	70-130			
Dibromomethane	9.92		ug/L	10.00	ND	99	70-130			
Dichlorodifluoromethane	9.74		ug/L	10.00	ND	97	70-130			
Diethyl Ether	10.7		ug/L	10.00	ND	107	70-130			
Di-isopropyl ether	11.2		ug/L	10.00	ND	112	70-130			
Ethyl tertiary-butyl ether	10.6		ug/L	10.00	ND	106	70-130			
Ethylbenzene	10.5		ug/L	10.00	ND	105	70-130			
Hexachlorobutadiene	9.19		ug/L	10.00	ND	92	70-130			
Hexachloroethane	8.62		ug/L	10.00	ND	86	70-130			
Isopropylbenzene	11.7		ug/L	10.00	ND	117	70-130			
Methyl tert-Butyl Ether	10.7		ug/L	10.00	ND	107	70-130			
Methylene Chloride	11.2		ug/L	10.00	ND	112	70-130			
Naphthalene	9.21		ug/L	10.00	ND	92	70-130			
n-Butylbenzene	9.97		ug/L	10.00	ND	100	70-130			
n-Propylbenzene	11.2		ug/L	10.00	ND	112	70-130			
sec-Butylbenzene	10.6		ug/L	10.00	ND	106	70-130			
Styrene	10.1		ug/L	10.00	ND	101	70-130			
tert-Butylbenzene	10.4		ug/L	10.00	ND	104	70-130			
Tertiary-amyl methyl ether	10.2		ug/L	10.00	ND	102	70-130			
Tetrachloroethene	31.4		ug/L	10.00	22.8	86	70-130			
Tetrahydrofuran	11.4		ug/L	10.00	ND	114	70-130			
Toluene	10.7		ug/L	10.00	ND	107	70-130			
trans-1,2-Dichloroethene	11.1		ug/L	10.00	0.410	107	70-130			
trans-1,3-Dichloropropene	9.24		ug/L	10.00	ND	92	70-130			
Trichloroethene	285		ug/L	10.00	270	155	70-130			E, M+
Trichlorofluoromethane	9.81		ug/L	10.00	0.210	96	70-130			
Trihalomethanes (Total)	38.5		mg/L							



CERTIFICATE OF ANALYSIS

Client Name: AMEC Foster Wheeler
Client Project ID: Textron Gorham - Groundwater

ESS Laboratory Work Order: 1512468

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8260B Volatile Organic Compounds

Batch CL52113 - 5030B

Vinyl Acetate	9.85		ug/L	10.00	ND	98	70-130			
Vinyl Chloride	7.40		ug/L	10.00	0.320	71	70-130			
Xylene O	10.7		ug/L	10.00	ND	107	70-130			
Xylene P,M	20.9		ug/L	20.00	ND	104	70-130			
Xylenes (Total)	31.6		mg/L							
Surrogate: 1,2-Dichloroethane-d4	0.0269		mg/L	0.02500		108	70-130			
Surrogate: 4-Bromofluorobenzene	0.0271		mg/L	0.02500		108	70-130			
Surrogate: Dibromofluoromethane	0.0271		mg/L	0.02500		108	70-130			
Surrogate: Toluene-d8	0.0276		mg/L	0.02500		110	70-130			

Matrix Spike Dup Source: 1512468-01

1,1,1,2-Tetrachloroethane	8.84		ug/L	10.00	ND	88	70-130	3	30	
1,1,1-Trichloroethane	11.0		ug/L	10.00	0.130	109	70-130	3	30	
1,1,2,2-Tetrachloroethane	11.0		ug/L	10.00	ND	110	70-130	1	30	
1,1,2-Trichloroethane	11.5		ug/L	10.00	0.800	107	70-130	2	30	
1,1-Dichloroethane	11.0		ug/L	10.00	ND	110	70-130	6	30	
1,1-Dichloroethene	12.8		ug/L	10.00	1.30	115	70-130	0.3	30	
1,1-Dichloropropene	11.8		ug/L	10.00	ND	118	70-130	9	30	
1,2,3-Trichlorobenzene	9.91		ug/L	10.00	ND	99	70-130	4	30	
1,2,3-Trichloropropane	9.94		ug/L	10.00	ND	99	70-130	3	30	
1,2,4-Trichlorobenzene	9.58		ug/L	10.00	ND	96	70-130	0	30	
1,2,4-Trimethylbenzene	9.74		ug/L	10.00	ND	97	70-130	1	30	
1,2-Dibromo-3-Chloropropane	9.95		ug/L	10.00	ND	100	70-130	1	30	
1,2-Dibromoethane	9.38		ug/L	10.00	ND	94	70-130	6	30	
1,2-Dichlorobenzene	9.73		ug/L	10.00	ND	97	70-130	9	30	
1,2-Dichloroethane	11.4		ug/L	10.00	0.240	112	70-130	2	30	
1,2-Dichloropropane	12.3		ug/L	10.00	ND	123	70-130	8	30	
1,3,5-Trimethylbenzene	10.0		ug/L	10.00	ND	100	70-130	5	30	
1,3-Dichlorobenzene	10.2		ug/L	10.00	ND	102	70-130	4	30	
1,3-Dichloropropane	10.4		ug/L	10.00	ND	104	70-130	2	30	
1,4-Dichlorobenzene	10.2		ug/L	10.00	ND	102	70-130	1	30	
1,4-Dioxane - Screen	250		ug/L	200.0	ND	125	0-332	44	200	
1-Chlorohexane	9.83		ug/L	10.00	ND	98	70-130	2	30	
2,2-Dichloropropane	10.1		ug/L	10.00	ND	101	70-130	0.4	30	
2-Butanone	62.4		ug/L	50.00	ND	125	70-130	5	30	
2-Chlorotoluene	10.8		ug/L	10.00	ND	108	70-130	5	30	
2-Hexanone	62.0		ug/L	50.00	ND	124	70-130	2	30	
4-Chlorotoluene	11.1		ug/L	10.00	ND	111	70-130	1	30	
4-Isopropyltoluene	9.87		ug/L	10.00	ND	99	70-130	2	30	
4-Methyl-2-Pentanone	59.0		ug/L	50.00	ND	118	70-130	6	30	
Acetone	62.6		ug/L	50.00	2.74	120	70-130	4	30	
Benzene	11.2		ug/L	10.00	0.100	111	70-130	3	30	
Bromobenzene	9.84		ug/L	10.00	ND	98	70-130	4	30	
Bromochloromethane	10.7		ug/L	10.00	ND	107	70-130	5	30	
Bromodichloromethane	11.0		ug/L	10.00	ND	110	70-130	4	30	
Bromoform	8.18		ug/L	10.00	ND	82	70-130	0.5	30	



CERTIFICATE OF ANALYSIS

Client Name: AMEC Foster Wheeler
Client Project ID: Textron Gorham - Groundwater

ESS Laboratory Work Order: 1512468

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8260B Volatile Organic Compounds

Batch CL52113 - 5030B

Bromomethane	5.94		ug/L	10.00	ND	59	70-130	24	30	M-
Carbon Disulfide	10.9		ug/L	10.00	ND	109	70-130	3	30	
Carbon Tetrachloride	9.84		ug/L	10.00	ND	98	70-130	0.4	30	
Chlorobenzene	10.7		ug/L	10.00	0.490	102	70-130	2	30	
Chloroethane	9.85		ug/L	10.00	ND	98	70-130	4	30	
Chloroform	11.1		ug/L	10.00	0.200	109	70-130	3	30	
Chloromethane	9.51		ug/L	10.00	ND	95	70-130	2	30	
cis-1,2-Dichloroethene	45.0		ug/L	10.00	34.6	104	70-130	18	30	
cis-1,3-Dichloropropene	10.4		ug/L	10.00	ND	104	70-130	5	30	
Dibromochloromethane	8.98		ug/L	10.00	ND	90	70-130	0	30	
Dibromomethane	10.1		ug/L	10.00	ND	101	70-130	2	30	
Dichlorodifluoromethane	10.1		ug/L	10.00	ND	101	70-130	3	30	
Diethyl Ether	11.6		ug/L	10.00	ND	116	70-130	7	30	
Di-isopropyl ether	11.5		ug/L	10.00	ND	115	70-130	3	30	
Ethyl tertiary-butyl ether	10.4		ug/L	10.00	ND	104	70-130	2	30	
Ethylbenzene	10.1		ug/L	10.00	ND	101	70-130	4	30	
Hexachlorobutadiene	9.03		ug/L	10.00	ND	90	70-130	2	30	
Hexachloroethane	8.54		ug/L	10.00	ND	85	70-130	0.9	30	
Isopropylbenzene	11.1		ug/L	10.00	ND	111	70-130	6	30	
Methyl tert-Butyl Ether	11.4		ug/L	10.00	ND	114	70-130	6	30	
Methylene Chloride	11.2		ug/L	10.00	ND	112	70-130	0.3	30	
Naphthalene	9.44		ug/L	10.00	ND	94	70-130	2	30	
n-Butylbenzene	10.0		ug/L	10.00	ND	100	70-130	0.8	30	
n-Propylbenzene	11.4		ug/L	10.00	ND	114	70-130	2	30	
sec-Butylbenzene	10.1		ug/L	10.00	ND	101	70-130	4	30	
Styrene	9.55		ug/L	10.00	ND	96	70-130	5	30	
tert-Butylbenzene	10.7		ug/L	10.00	ND	107	70-130	3	30	
Tertiary-amyl methyl ether	10.7		ug/L	10.00	ND	107	70-130	5	30	
Tetrachloroethene	29.0		ug/L	10.00	22.8	62	70-130	32	30	D+, M-
Tetrahydrofuran	12.4		ug/L	10.00	ND	124	70-130	8	30	
Toluene	10.9		ug/L	10.00	ND	109	70-130	2	30	
trans-1,2-Dichloroethene	11.8		ug/L	10.00	0.410	113	70-130	6	30	
trans-1,3-Dichloropropene	9.30		ug/L	10.00	ND	93	70-130	0.6	30	
Trichloroethene	299		ug/L	10.00	270	295	70-130	62	30	D+, E, M+
Trichlorofluoromethane	10.2		ug/L	10.00	0.210	100	70-130	4	30	
Trihalomethanes (Total)	39.2		mg/L							
Vinyl Acetate	9.66		ug/L	10.00	ND	97	70-130	2	30	
Vinyl Chloride	11.6		ug/L	10.00	0.320	113	70-130	46	30	D+
Xylene O	9.46		ug/L	10.00	ND	95	70-130	12	30	
Xylene P,M	19.6		ug/L	20.00	ND	98	70-130	6	30	
Xylenes (Total)	29.1		mg/L							
Surrogate: 1,2-Dichloroethane-d4	0.0303		mg/L	0.02500		121	70-130			
Surrogate: 4-Bromofluorobenzene	0.0258		mg/L	0.02500		103	70-130			
Surrogate: Dibromofluoromethane	0.0278		mg/L	0.02500		111	70-130			
Surrogate: Toluene-d8	0.0275		mg/L	0.02500		110	70-130			



CERTIFICATE OF ANALYSIS

Client Name: AMEC Foster Wheeler

Client Project ID: Textron Gorham - Groundwater

ESS Laboratory Work Order: 1512468

Notes and Definitions

- U Analyte included in the analysis, but not detected
- M+ Matrix Spike recovery is above upper control limit (M+).
- M- Matrix Spike recovery is below lower control limit (M-).
- E Reported above the quantitation limit; Estimated value (E).
- D+ Relative percent difference for duplicate is outside of criteria (D+).
- D Diluted.
- ND Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- MDL Method Detection Limit
- MRL Method Reporting Limit
- LOD Limit of Detection
- LOQ Limit of Quantitation
- DL Detection Limit
- I/V Initial Volume
- F/V Final Volume
- § Subcontracted analysis; see attached report
- 1 Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
- 2 Range result excludes concentrations of target analytes eluting in that range.
- 3 Range result excludes the concentration of the C9-C10 aromatic range.
- Avg Results reported as a mathematical average.
- NR No Recovery
- [CALC] Calculated Analyte
- SUB Subcontracted analysis; see attached report



CERTIFICATE OF ANALYSIS

Client Name: AMEC Foster Wheeler
Client Project ID: Textron Gorham - Groundwater

ESS Laboratory Work Order: 1512468

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Rhode Island Potable and Non Potable Water: LAI00179

<http://www.health.ri.gov/find/labs/analytical/ESS.pdf>

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750

http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutOfStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI00002

<http://www.maine.gov/dhhs/mecdc/environmental-health/water/dwp-services/labcert/documents/AllLabs.xls>

Massachusetts Potable and Non Potable Water: M-RI002

<http://public.dep.state.ma.us/Labcert/Labcert.aspx>

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424

<http://des.nh.gov/organization/divisions/water/dwgb/nhelap/index.htm>

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313

<http://www.wadsworth.org/labcert/elap/comm.html>

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006

http://datamine2.state.nj.us/DEP_OPRA/OpraMain/pi_main?mode=pi_by_site&sort_order=PI_NAMEA&Select+a+Site:=58715

United States Department of Agriculture Soil Permit: P330-12-00139

Pennsylvania: 68-01752

http://www.depweb.state.pa.us/portal/server.pt/community/labs/13780/laboratory_accreditation_program/590095

Sample and Cooler Receipt Checklist

Client: AMEC Earth and Environmental
 Client Project ID: _____
 Shipped/Delivered Via: Client

ESS Project ID: 15120468
 Date Project Due: 12/24/15
 Days For Project: 5 Day

Items to be checked upon receipt:

- 1. Air Bill Manifest Present? * No
- Air No.:
- 2. Were Custody Seals Present? No
- 3. Were Custody Seals Intact? N/A
- 4. Is Radiation count < 100 CPM? Yes
- 5. Is a cooler present? Yes
- Cooler Temp: 5.1
- Iced With: Ice
- 6. Was COC included with samples? Yes
- 7. Was COC signed and dated by client? Yes
- 8. Does the COC match the sample Yes
- 9. Is COC complete and correct? Yes

- 10. Are the samples properly preserved? Yes
- 11. Proper sample containers used? Yes
- 12. Any air bubbles in the VOA vials? No
- 13. Holding times exceeded? No
- 14. Sufficient sample volumes? Yes
- 15. Any Subcontracting needed? No
- 16. Are ESS labels on correct containers? Yes No
- 17. Were samples received intact? Yes No
- ESS Sample IDs: _____
- Sub Lab: _____
- Analysis: _____
- TAT: _____

18. Was there need to call project manager to discuss status? If yes, please explain.

1 VOA vial MW-FS received with no sample in it - 747395

Who was called?: _____ By whom? _____

Sample Number	Properly Preserved	Container Type	# of Containers	Preservative
1	Yes	40 ml - VOA	3 ⁸ 12/17/15	HCL
2	Yes	40 ml - VOA	3	HCL
3	Yes	40 ml - VOA	3	HCL
4	Yes	40 ml - VOA	3	HCL
5	Yes	40 ml - VOA	3	HCL
6	Yes	40 ml - VOA	3	HCL
7	Yes	40 ml - VOA	3	HCL
8	Yes	40 ml - VOA	1	HCL

Completed By: Louisa Badger
 Reviewed By: JK...

Date/Time: 12/17/15 12:53
 Date/Time: 12/17/15 14:10

ESS Laboratory

Division of Thielsch Engineering, Inc.
 185 Frances Avenue, Cranston RI 02910-2211
 Tel. (401)461-7181 Fax (401)461-4486
 www.esslaboratory.com

CHAIN OF CUSTODY

Turn Time Standard Other _____
 Regulatory State: MA CT NH NJ NY ME Other _____
 Is this project for any of the following: (please circle)
 MA-MCP Navy USACE CT DEP Other _____

ESS Lab # **1512468**

Reporting Limits - See PM

Electronic Deliverables *Excel Access PDF

Co. Name AmeC Foster-Wheeler
 Contact Person Denise King
 Address 271 Mill Rd. City, State Chester, MA
 Tel. 978-392-5337 email: Denise.King@amec.com
 Project # 3652140032 Project Name Teston Cochem
 Prof. Location Providence, RI PO # See PM

ESS Lab ID	Date	Collection Time	Grab-G Composite-C	Matrix	Sample ID	Pres Code	# of Containers	Type of Container	Vol of Container	Analysis
1	12-16-15	955	S	GW	MW-FS	HCL	9	V	40ml	X (RMS/MSD)
2	12-16-15	1100	S	GW	MW-241	HCL	3	V	" "	X
3	12-16-15	1410	S	GW	MW-235S	HCL	3	V	" "	X
4	12-16-15	1430	S	GW	MW-236S	HCL	3	V	" "	X
5	12-16-15	1000 Dup-01	S	GW	Dup-01	HCL	3	V	" "	X
6	12-17-15	9:30 AM	S	GW	MW-10	HCL	3	V	" "	X
7	12-17-15	950	S	GW	MW-237S	HCL	3	V	" "	X
8	12-17-15	---	S	TB	Triphk-01	HCL	1	V	" "	X

Cooler Present Yes No
 Seals Intact Yes No NA: _____
 Cooler Temperature: 5.1 F 12/17/15 JE
 Internal Use Only
 [] Pickup
 [] Technician PO

Sampled by: Mark Maggione
 Comments: 339-927-3797

Received by: (Signature, Date & Time) <u>[Signature]</u> 12-17-15 1200	Relinquished by: (Signature, Date & Time) <u>[Signature]</u> 12/17/15 1200
Received by: (Signature, Date & Time)	Relinquished by: (Signature, Date & Time)

* By circling MA-MCP, client acknowledges samples were collected in accordance with MADEP CAM VIIA

Please fax to the laboratory all changes to Chain of Custody

Report Method Blank & Laboratory Control Sample Results