

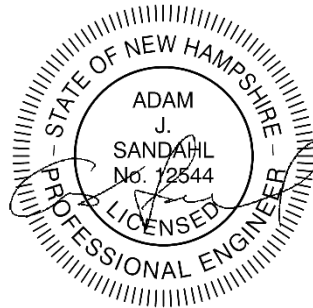


**NHDES Waste Management Division
29 Hazen Drive; PO Box 95
Concord, NH 03302-0095**



**Supplemental Information Submittal
Granite State Landfill
Douglas Drive
Dalton, NH 03598
NHDES Site #: 123456789
Project Type: SW-LNDFILL
Project Number: TBD
Permit: DES-SW-SP-XX-XXX (TBD)**

Prepared For:
Granite State Landfill, LLC
1855 VT Route 100
Hyde Park, VT 05655
Phone Number (802) 651-5454
RP Contact Name: John Gay
RP Contact Email: john.gay@casella.com



Prepared By:
CMA Engineers, Inc.
35 Bow Street
Portsmouth, NH 03801
Phone Number: (603) 431-6196
Contact Name: Adam Sandahl, P.E.
Contact Email: asandahl@cmaengineers.com

Date of Report: February 06, 2024

Cover Sheet for Reports Template - Revised December 2020



February 06, 2024

Ms. Mary Daun, P.E.
Solid Waste Management Bureau, Waste Management Division
New Hampshire Department of Environmental Services
29 Hazen Drive, P.O. Box 29
Concord, NH 03302-0095

**Re: Granite State Landfill, LLC
Standard Permit for Solid Waste Landfill
Supplemental Information Submittal
CMA #1101**

Dear Ms. Daun:

On behalf of Granite State Landfill, LLC (GSL), this transmittal provides the remaining certified mail receipt material and omitted information from the Standard Permit application submitted to your attention on October 31, 2023, and discussed with you at our meeting at NHDES on January 24, 2024. We understand that GSL will be receiving a Notice of Incompleteness by February 28, 2024 and that many of the items discussed at the January 24th meeting will be part of the notice. At this time, GSL is only submitting omitted information discussed at the meeting and will provide a follow-up submittal to respond to the notice after it is received.

Notice Receipts

Documentation that the five remaining notices have been delivered is provided in Exhibit A. Those notices include the following properties:

- Bethlehem Map 406 Lot 3 (83 Airport Rd Solar, LLC)
- Bethlehem Map 406 Lot 6 (Bryan)
- Bethlehem Map 506 Lot 54 and Map 405 Lot 55 (Dupont)
- Littleton Map 25 Lot 10 (Pierce)
- Whitefield Map 243 Lot 20 (Avgerakis/McLure)

Hydrogeologic Report Laboratory Report Appendix

Appendix K to the Hydrogeologic report was missing pages from the laboratory data, starting with a partial Appendix K.4. The remainder of Appendix K.4 and complete Appendices K.5 through K.9 are enclosed as Exhibit B. The Hydrogeologic Report is in Section V(4) of the application.

Traffic Study Report

The Traffic Study provided in Section V(5) of the application was missing the Traffic Study summary text, which is provided with this submittal as Exhibit C. The report text describes the methodology for vehicle modelling. This section belongs in front of the traffic study Appendix A in Section V(5) of the application.

Geotechnical Report Supplement

The Geotechnical Report, provided in Section VI(3) of the application, was missing attachments, which are provided in Exhibit D. Missing attachments include stability modeling and boring logs.

This submittal, minus the notices, are being provided to all entities that received a full copy of the application, i.e.:

- Town of Dalton
- Ammonoosuc River Local Advisory Committee
- NH Fish and Game Department
- NH Natural Heritage Inventory
- NHDES Water Pollution Division

Should you have any questions, please do not hesitate to contact us.

Very truly yours,

CMA ENGINEERS, INC.



Adam J. Sandahl, P.E., BCEE
Project Manager

AJS/vpt

Cc: Joe Gay, GSL (via email)
Jaime Colby, NHDES-WMD (via email)
Town of Dalton
Ammonoosuc River Local Advisory Committee
NH Fish and Game Department
NH Natural Heritage Inventory
NHDES Water Pollution Division
NHDES Onestop

Enclosures: Exhibit A – Notice Receipts
Exhibit B – Hydrogeologic Report Appendix K Laboratory Report Supplement
Exhibit C – Traffic Study Report
Exhibit D – Geotechnical Report Supplement

Exhibit A

Notice Receipts

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7019 0700 0001 9457 6695

Certified Mail Fee	\$4.35
Extra Services & Fees (check box, add fee if appropriate)	\$3.55
<input type="checkbox"/> Return Receipt (hardcopy)	\$0.00
<input type="checkbox"/> Return Receipt (electronic)	\$0.00
<input type="checkbox"/> Certified Mail Restricted Delivery	\$0.00
<input type="checkbox"/> Adult Signature Required	\$0.00
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00

Postage \$0.66
Total Postage and Fees \$4.01



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 Street and Apt. No., or PO Box No. W. Avgerakis & B. Mclure
 44 Rector Street
 City, State, ZIP+4® Metuchen, NJ 08840

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Your item was delivered to the front desk, reception area, or mail room at 1:37 pm on October 27, 2023 in METUCHEN, NJ 08840.

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Delivered, Front Desk/Reception/Mail Room

METUCHEN, NJ 08840

October 27, 2023, 1:37 pm

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KEARNY NJ DISTRIBUTION CENTER

October 26, 2023, 9:41 am

In Transit to Next Facility

October 25, 2023

Arrived at USPS Origin Facility

MANCHESTER, NH 03103

October 24, 2023, 9:06 pm

Departed Post Office

PORTSMOUTH, NH 03801

October 24, 2023, 6:35 pm

Feedback

- **USPS in possession of item**
PORTSMOUTH, NH 03801
October 24, 2023, 3:38 pm
- **Hide Tracking History**

[What Do USPS Tracking Statuses Mean? \(https://faq.usps.com/s/article/Where-is-my-package\)](https://faq.usps.com/s/article/Where-is-my-package)

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<input type="checkbox"/> Return Receipt (hardcopy)	\$0.00
<input type="checkbox"/> Return Receipt (electronic)	\$0.00
<input type="checkbox"/> Certified Mail Restricted Delivery	\$0.00
<input type="checkbox"/> Adult Signature Required	\$0.00
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00
Postage	\$0.66
Total Postage and Fees	



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Street and Apt. No., or PO Box No. 83 Airport Rd Solar, LLC
120 Front Street,
City, State, ZIP+4® Marion MA 02738

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Your item has been delivered to an agent for final delivery in MARION, MA 02738 on October 26, 2023 at 12:56 pm.

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Delivered to Agent for Final Delivery

MARION, MA 02738

October 26, 2023, 12:56 pm

Arrived at USPS Regional Facility

PROVIDENCE RI DISTRIBUTION CENTER

October 25, 2023, 11:22 am

Arrived at USPS Origin Facility

MANCHESTER, NH 03103

October 24, 2023, 9:06 pm

Departed Post Office

PORTSMOUTH, NH 03801

October 24, 2023, 6:35 pm

USPS in possession of item

PORTSMOUTH, NH 03801

Feedback

October 24, 2023, 3:49 pm
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Cumberland, RI 02864

7019 2280 0001 0348 2364

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\$	\$3.55
Extra Services & Fees (check box, add fee, add postage rate)	
<input type="checkbox"/> Return Receipt (hardcopy)	\$0.00
<input type="checkbox"/> Return Receipt (electronic)	\$0.00
<input type="checkbox"/> Certified Mail Restricted Delivery	\$0.00
<input type="checkbox"/> Adult Signature Required	\$0.00
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00
Postage	\$0.66
\$	
Total Postage and Fees	\$8.56
\$	



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 Street and Apt. No., or PO Box No. Chris Dupont
 24 West Highland Ave
 City, State, ZIP+4® Cumberland, RI 02864

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Delivered, Left with Individual

CUMBERLAND, RI 02864
October 26, 2023, 12:45 pm

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PROVIDENCE RI DISTRIBUTION CENTER
October 25, 2023, 11:22 am

Arrived at USPS Origin Facility

MANCHESTER, NH 03103
October 24, 2023, 9:06 pm

Departed Post Office

PORTSMOUTH, NH 03801
October 24, 2023, 6:35 pm

USPS in possession of item

PORTSMOUTH, NH 03801

Feedback

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October 25, 2023, 11:22 am

Arrived at USPS Origin Facility

MANCHESTER, NH 03103
October 24, 2023, 9:06 pm

Departed Post Office

PORTSMOUTH, NH 03801
October 24, 2023, 6:35 pm

USPS in possession of item

PORTSMOUTH, NH 03801

Feedback

October 24, 2023, 3:57 pm



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[What Do USPS Tracking Statuses Mean?](https://faq.usps.com/s/article/Where-is-my-package) (https://faq.usps.com/s/article/Where-is-my-package)

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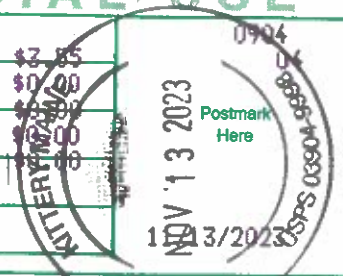
For delivery information visit our website at www.usps.com

Cumberland, RI 02864

7006 3450 0000 8527 9624

Postage	\$4.35
Certified Fee	\$2.85
Return Receipt Fee (Endorsement Required)	\$0.00
Restricted Delivery Fee (Endorsement Required)	\$0.00
Total Postage & Fees	\$7.20

\$8.56



Sent To
Christopher M Dupont
Street, Apt. No.,
or PO Box No. **24 West Highland Ave.**
City, State, ZIP+4 **Cumberland R.I. 02864**

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Latest Update

Your item has been delivered to the original sender at 5:42 pm on January 2, 2024 in PORTSMOUTH, NH 03801.

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Delivered, To Original Sender

PORTSMOUTH, NH 03801
January 2, 2024, 5:42 pm

Arrived at USPS Origin Facility

MANCHESTER, NH 03103
December 31, 2023, 11:32 am

Arrived at USPS Regional Origin Facility

SHREWSBURY MA DISTRIBUTION CENTER
December 29, 2023, 3:51 pm

No Access to Delivery Location

CUMBERLAND, RI 02864
December 23, 2023, 12:19 pm

Arrived at USPS Regional Facility

PROVIDENCE RI DISTRIBUTION CENTER

Feedback

December 22, 2023, 11:38 am

In Transit to Next Facility

December 20, 2023

Arrived at USPS Regional Origin Facility

BOSTON MA DISTRIBUTION CENTER

December 14, 2023, 9:56 am

Arrived at USPS Regional Origin Facility

SHREWSBURY MA DISTRIBUTION CENTER

December 13, 2023, 6:30 pm

Unclaimed/Being Returned to Sender

CUMBERLAND, RI 02864

December 8, 2023, 5:00 pm

Available for Pickup

CUMBERLAND

2055 DIAMOND HILL RD

CUMBERLAND RI 02864-9998

M-F 0830-1730; SAT 0900-1300

November 21, 2023, 11:51 am

Reminder to Schedule Redelivery of your item

November 21, 2023

Notice Left (No Authorized Recipient Available)

CUMBERLAND, RI 02864

November 16, 2023, 11:53 am

Arrived at USPS Regional Facility

PROVIDENCE RI DISTRIBUTION CENTER

November 15, 2023, 2:32 pm

Arrived at USPS Regional Origin Facility

SOUTHERN ME DISTRIBUTION CENTER

November 13, 2023, 6:08 pm

Departed Post Office

KITTERY, ME 03904

November 13, 2023, 4:00 pm

USPS in possession of item

KITTERY, ME 03904

November 13, 2023, 11:16 am



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Bethlehem, NH 03574

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Certified Mail Fee \$4.35

\$3.55

Extra Services & Fees (check box, add fee as appropriate)

Return Receipt (hardcopy) \$0.00

Return Receipt (electronic) \$0.00

Certified Mail Restricted Delivery \$0.00

Adult Signature Required \$0.00

Adult Signature Restricted Delivery \$

Postage \$0.66

Total Postage and Fees \$5.36

Sent To

Street and Apt. No., or PO Box No. Eric S. Bryan & Thomas E. Bryan

City, State, ZIP+4® 205 West Forest Lake Road
Bethlehem, NH 03574

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14
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10/24/2023
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Delivered to Agent for Final Delivery

PORTSMOUTH, NH 03801
November 24, 2023, 1:08 pm

Arrived at USPS Facility

MANCHESTER, NH 03103
November 21, 2023, 6:31 pm

In Transit to Next Facility

November 21, 2023

Arrived at USPS Regional Origin Facility

SHREWSBURY MA DISTRIBUTION CENTER
November 19, 2023, 5:11 pm

Unclaimed/Being Returned to Sender

BETHLEHEM, NH 03574
November 10, 2023, 10:54 am

Feedback

Available for Pickup

BETHLEHEM
2159 MAIN ST
BETHLEHEM NH 03574-9998
M-F 0830-1700; SAT 0830-1100
October 31, 2023, 6:40 am

Reminder to Schedule Redelivery of your item

October 31, 2023

Notice Left (No Authorized Recipient Available)

BETHLEHEM, NH 03574
October 26, 2023, 8:48 am

Out for Delivery

BETHLEHEM, NH 03574
October 26, 2023, 8:47 am

Arrived at Post Office

BETHLEHEM, NH 03574
October 26, 2023, 8:36 am

Arrived at USPS Regional Facility

WHITE RIVER JUNCTION VT DISTRIBUTION CENTER
October 25, 2023, 11:24 am

Arrived at USPS Facility

MANCHESTER, NH 03103
October 24, 2023, 9:06 pm

Departed Post Office

PORTSMOUTH, NH 03801
October 24, 2023, 6:35 pm

USPS in possession of item

PORTSMOUTH, NH 03801
October 24, 2023, 3:42 pm

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West Roxbury, MA 02132

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7006 3450 0000 8527 9556

Postage	\$3.55
Certified Fee	\$0.00
Return Receipt Fee (Endorsement Required)	\$0.00
Restricted Delivery Fee (Endorsement Required)	\$0.00
Total Postage & Fees	\$3.55

0801
14
Postmark
Here
10/24/2023
PORTSMOUTH MA 02876

Sent to
 Street, Apt. No., or PO Box No. Cynthia Prerce, Charles Pierce
 5 Cefalo Road
 City, State, ZIP+4 West Roxbury MA, 02132

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October 26, 2023, 9:26 am

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BOSTON MA DISTRIBUTION CENTER
October 25, 2023, 9:06 am

Arrived at USPS Origin Facility

MANCHESTER, NH 03103
October 24, 2023, 9:06 pm

Departed Post Office

PORTSMOUTH, NH 03801
October 24, 2023, 6:35 pm

USPS in possession of item

PORTSMOUTH, NH 03801

Feedback

October 24, 2023, 3:16 pm
● **Hide Tracking History**

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FAQs

Exhibit B

Hydrogeologic Report Appendix K Supplement



QC REPORT

EAI ID#: 225363

Client: **Sanborn, Head & Associates, Inc. (NH)**

Batch ID: 637555-38213/A043021DIOX1

Client Designation: **Dalton | Groundwater / 1003.20**

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
1,4-Dioxane	< 0.2	4.9 (98 %R)	5.0 (101 %R) (3 RPD)	4/30/2021	ug/L	70 - 130	20	8260B
4-Bromofluorobenzene (surr)	99 %R	100 %R	100 %R	4/30/2021	% Rec	70 - 130	50	8260B
Toluene-d8 (surr)	100 %R	100 %R	100 %R	4/30/2021	% Rec	70 - 130	50	8260B

*! Flagged analyte recoveries deviated from the QA/QC limits. Data that impacts sample results are noted on the sample report.



LABORATORY REPORT

EAI ID#: 225363

Client: **Sanborn, Head & Associates, Inc. (NH)**
 Client Designation: **Dalton | Groundwater / 1003.20**

Sample ID:	MW-3_20210428	MW-4_20210428	MW-5_20210428	MW-6_20210428
Lab Sample ID:	225363.01	225363.02	225363.03	225363.04
Matrix:	aqueous	aqueous	aqueous	aqueous
Date Sampled:	4/28/21	4/28/21	4/28/21	4/28/21
Date Received:	4/29/21	4/29/21	4/29/21	4/29/21
Units:	ug/L	ug/L	ug/L	ug/L
Date of Extraction/Prep:	4/30/21	4/30/21	4/30/21	4/30/21
Date of Analysis:	4/30/21	4/30/21	4/30/21	4/30/21
Analyst:	JMR	JMR	JMR	JMR
Method:	8270D	8270D	8270D	8270D
Dilution Factor:	1	1	1	1
alpha-Terpineol	< 5	< 5	< 5	< 5
Phenol	< 1	< 1	< 1	< 1
2-Chlorophenol	< 1	< 1	< 1	< 1
2,4-Dichlorophenol	< 1	< 1	< 1	< 1
2,4,5-Trichlorophenol	< 1	< 1	< 1	< 1
2,4,6-Trichlorophenol	< 1	< 1	< 1	< 1
Pentachlorophenol	< 5	< 5	< 5	< 5
2-Nitrophenol	< 5	< 5	< 5	< 5
4-Nitrophenol	< 5	< 5	< 5	< 5
2,4-Dinitrophenol	< 10	< 10	< 10	< 10
2-Methylphenol	< 1	< 1	< 1	< 1
3/4-Methylphenol	< 1	< 1	< 1	< 1
2,4-Dimethylphenol	< 5	< 5	< 5	< 5
4-Chloro-3-methylphenol	< 1	< 1	< 1	< 1
4,6-Dinitro-2-methylphenol	< 5	< 5	< 5	< 5
Benzoic Acid	< 50	< 50	< 50	< 50
N-Nitrosodimethylamine	< 1	< 1	< 1	< 1
n-Nitroso-di-n-propylamine	< 0.5	< 0.5	< 0.5	< 0.5
n-Nitrosodiphenylamine	< 1	< 1	< 1	< 1
bis(2-Chloroethyl)ether	< 1	< 1	< 1	< 1
bis(2-chloroisopropyl)ether	< 1	< 1	< 1	< 1
bis(2-Chloroethoxy)methane	< 1	< 1	< 1	< 1
1,3-Dichlorobenzene	< 1	< 1	< 1	< 1
Acetophenone	< 10	< 10	< 10	< 10
1,4-Dichlorobenzene	< 1	< 1	< 1	< 1
1,2-Dichlorobenzene	< 1	< 1	< 1	< 1
1,2,4-Trichlorobenzene	< 1	< 1	< 1	< 1
2-Chloronaphthalene	< 1	< 1	< 1	< 1
4-Chlorophenyl-phenylether	< 1	< 1	< 1	< 1
4-Bromophenyl-phenylether	< 1	< 1	< 1	< 1
Hexachloroethane	< 1	< 1	< 1	< 1
Hexachlorobutadiene	< 1	< 1	< 1	< 1
Hexachlorocyclopentadiene	< 5	< 5	< 5	< 5
Hexachlorobenzene	< 1	< 1	< 1	< 1
4-Chloroaniline	< 1	< 1	< 1	< 1
2,3-Dichloroaniline	< 1	< 1	< 1	< 1
2-Nitroaniline	< 5	< 5	< 5	< 5
3-Nitroaniline	< 5	< 5	< 5	< 5
4-Nitroaniline	< 5	< 5	< 5	< 5
Aniline	< 1	< 1	< 1	< 1
Benzyl alcohol	< 10	< 10	< 10	< 10
Nitrobenzene	< 1	< 1	< 1	< 1
Isophorone	< 1	< 1	< 1	< 1
2,4-Dinitrotoluene	< 2	< 2	< 2	< 2
2,6-Dinitrotoluene	< 2	< 2	< 2	< 2
Benzidine (estimated)	< 5	< 5	< 5	< 5
3,3'-Dichlorobenzidine	< 1	< 1	< 1	< 1



LABORATORY REPORT

EAI ID#: **225363**

Client: **Sanborn, Head & Associates, Inc. (NH)**
 Client Designation: **Dalton | Groundwater / 1003.20**

Sample ID:	MW-3_20210428	MW-4_20210428	MW-5_20210428	MW-6_20210428
Lab Sample ID:	225363.01	225363.02	225363.03	225363.04
Matrix:	aqueous	aqueous	aqueous	aqueous
Date Sampled:	4/28/21	4/28/21	4/28/21	4/28/21
Date Received:	4/29/21	4/29/21	4/29/21	4/29/21
Units:	ug/L	ug/L	ug/L	ug/L
Date of Extraction/Prep:	4/30/21	4/30/21	4/30/21	4/30/21
Date of Analysis:	4/30/21	4/30/21	4/30/21	4/30/21
Analyst:	JMR	JMR	JMR	JMR
Method:	8270D	8270D	8270D	8270D
Dilution Factor:	1	1	1	1
Pyridine	< 5	< 5	< 5	< 5
Azobenzene	< 1	< 1	< 1	< 1
Carbazole	< 1	< 1	< 1	< 1
Dimethylphthalate	< 1	< 1	< 1	< 1
Diethylphthalate	< 5	< 5	< 5	< 5
Di-n-butylphthalate	< 5	< 5	< 5	< 5
Butylbenzylphthalate	< 5	< 5	< 5	< 5
bis(2-Ethylhexyl)phthalate	< 5	< 5	< 5	< 5
Di-n-octylphthalate	< 5	< 5	< 5	< 5
Dibenzofuran	< 1	< 1	< 1	< 1
Naphthalene	< 0.1	< 0.1	< 0.1	< 0.1
2-Methylnaphthalene	< 0.1	< 0.1	< 0.1	< 0.1
1-Methylnaphthalene	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthene	< 0.1	< 0.1	< 0.1	< 0.1
Fluorene	< 0.1	< 0.1	< 0.1	< 0.1
Phenanthrene	< 0.1	< 0.1	< 0.1	< 0.1
Anthracene	< 0.1	< 0.1	< 0.1	< 0.1
Fluoranthene	< 0.1	< 0.1	< 0.1	< 0.1
Pyrene	< 0.1	< 0.1	< 0.1	< 0.1
Benzo[a]anthracene	< 0.1	< 0.1	< 0.1	< 0.1
Chrysene	< 0.1	< 0.1	< 0.1	< 0.1
Benzo[b]fluoranthene	< 0.1	< 0.1	< 0.1	< 0.1
Benzo[k]fluoranthene	< 0.1	< 0.1	< 0.1	< 0.1
Benzo[a]pyrene	< 0.1	< 0.1	< 0.1	< 0.1
Indeno[1,2,3-cd]pyrene	< 0.1	< 0.1	< 0.1	< 0.1
Dibenz[a,h]anthracene	< 0.1	< 0.1	< 0.1	< 0.1
Benzo[g,h,i]perylene	< 0.1	< 0.1	< 0.1	< 0.1
n-Decane	< 5	< 5	< 5	< 5
n-Octadecane	< 5	< 5	< 5	< 5
2-Fluorophenol (surr)	37 %R	36 %R	40 %R	34 %R
Phenol-d6 (surr)	27 %R	26 %R	28 %R	25 %R
2,4,6-Tribromophenol (surr)	79 %R	79 %R	85 %R	84 %R
Nitrobenzene-D5 (surr)	70 %R	67 %R	74 %R	65 %R
2-Fluorobiphenyl (surr)	72 %R	67 %R	76 %R	66 %R
p-Terphenyl-D14 (surr)	78 %R	82 %R	80 %R	84 %R



LABORATORY REPORT

EAI ID#: 225363

Client: **Sanborn, Head & Associates, Inc. (NH)**
 Client Designation: **Dalton | Groundwater / 1003.20**

Sample ID:	MW-7_20210428	MW-12_20210428	MW-13_20210428	MW-14_20210428
Lab Sample ID:	225363.05	225363.06	225363.07	225363.08
Matrix:	aqueous	aqueous	aqueous	aqueous
Date Sampled:	4/28/21	4/28/21	4/28/21	4/28/21
Date Received:	4/29/21	4/29/21	4/29/21	4/29/21
Units:	ug/L	ug/L	ug/L	ug/L
Date of Extraction/Prep:	4/30/21	4/30/21	4/30/21	4/30/21
Date of Analysis:	4/30/21	4/30/21	4/30/21	4/30/21
Analyst:	JMR	JMR	JMR	JMR
Method:	8270D	8270D	8270D	8270D
Dilution Factor:	1	1	1	1
alpha-Terpineol	< 5	< 5	< 5	< 5
Phenol	< 1	< 1	< 1	< 1
2-Chlorophenol	< 1	< 1	< 1	< 1
2,4-Dichlorophenol	< 1	< 1	< 1	< 1
2,4,5-Trichlorophenol	< 1	< 1	< 1	< 1
2,4,6-Trichlorophenol	< 1	< 1	< 1	< 1
Pentachlorophenol	< 5	< 5	< 5	< 5
2-Nitrophenol	< 5	< 5	< 5	< 5
4-Nitrophenol	< 5	< 5	< 5	< 5
2,4-Dinitrophenol	< 10	< 10	< 10	< 10
2-Methylphenol	< 1	< 1	< 1	< 1
3/4-Methylphenol	< 1	< 1	< 1	< 1
2,4-Dimethylphenol	< 5	< 5	< 5	< 5
4-Chloro-3-methylphenol	< 1	< 1	< 1	< 1
4,6-Dinitro-2-methylphenol	< 5	< 5	< 5	< 5
Benzoic Acid	< 50	< 50	< 50	< 50
N-Nitrosodimethylamine	< 1	< 1	< 1	< 1
n-Nitroso-di-n-propylamine	< 0.5	< 0.5	< 0.5	< 0.5
n-Nitrosodiphenylamine	< 1	< 1	< 1	< 1
bis(2-Chloroethyl)ether	< 1	< 1	< 1	< 1
bis(2-chloroisopropyl)ether	< 1	< 1	< 1	< 1
bis(2-Chloroethoxy)methane	< 1	< 1	< 1	< 1
1,3-Dichlorobenzene	< 1	< 1	< 1	< 1
Acetophenone	< 10	< 10	< 10	< 10
1,4-Dichlorobenzene	< 1	< 1	< 1	< 1
1,2-Dichlorobenzene	< 1	< 1	< 1	< 1
1,2,4-Trichlorobenzene	< 1	< 1	< 1	< 1
2-Chloronaphthalene	< 1	< 1	< 1	< 1
4-Chlorophenyl-phenylether	< 1	< 1	< 1	< 1
4-Bromophenyl-phenylether	< 1	< 1	< 1	< 1
Hexachloroethane	< 1	< 1	< 1	< 1
Hexachlorobutadiene	< 1	< 1	< 1	< 1
Hexachlorocyclopentadiene	< 5	< 5	< 5	< 5
Hexachlorobenzene	< 1	< 1	< 1	< 1
4-Chloroaniline	< 1	< 1	< 1	< 1
2,3-Dichloroaniline	< 1	< 1	< 1	< 1
2-Nitroaniline	< 5	< 5	< 5	< 5
3-Nitroaniline	< 5	< 5	< 5	< 5
4-Nitroaniline	< 5	< 5	< 5	< 5
Aniline	< 1	< 1	< 1	< 1
Benzyl alcohol	< 10	< 10	< 10	< 10
Nitrobenzene	< 1	< 1	< 1	< 1
Isophorone	< 1	< 1	< 1	< 1
2,4-Dinitrotoluene	< 2	< 2	< 2	< 2
2,6-Dinitrotoluene	< 2	< 2	< 2	< 2
Benzidine (estimated)	< 5	< 5	< 5	< 5
3,3'-Dichlorobenzidine	< 1	< 1	< 1	< 1



LABORATORY REPORT

EAI ID#: **225363**

Client: **Sanborn, Head & Associates, Inc. (NH)**
 Client Designation: **Dalton | Groundwater / 1003.20**

Sample ID:	MW-7_20210428	MW-12_20210428	MW-13_20210428	MW-14_20210428
Lab Sample ID:	225363.05	225363.06	225363.07	225363.08
Matrix:	aqueous	aqueous	aqueous	aqueous
Date Sampled:	4/28/21	4/28/21	4/28/21	4/28/21
Date Received:	4/29/21	4/29/21	4/29/21	4/29/21
Units:	ug/L	ug/L	ug/L	ug/L
Date of Extraction/Prep:	4/30/21	4/30/21	4/30/21	4/30/21
Date of Analysis:	4/30/21	4/30/21	4/30/21	4/30/21
Analyst:	JMR	JMR	JMR	JMR
Method:	8270D	8270D	8270D	8270D
Dilution Factor:	1	1	1	1
Pyridine	< 5	< 5	< 5	< 5
Azobenzene	< 1	< 1	< 1	< 1
Carbazole	< 1	< 1	< 1	< 1
Dimethylphthalate	< 1	< 1	< 1	< 1
Diethylphthalate	< 5	< 5	< 5	< 5
Di-n-butylphthalate	< 5	< 5	< 5	< 5
Butylbenzylphthalate	< 5	< 5	< 5	< 5
bis(2-Ethylhexyl)phthalate	< 5	< 5	< 5	< 5
Di-n-octylphthalate	< 5	< 5	< 5	< 5
Dibenzofuran	< 1	< 1	< 1	< 1
Naphthalene	< 0.1	< 0.1	< 0.1	< 0.1
2-Methylnaphthalene	< 0.1	< 0.1	< 0.1	< 0.1
1-Methylnaphthalene	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthene	< 0.1	< 0.1	< 0.1	< 0.1
Fluorene	< 0.1	< 0.1	< 0.1	< 0.1
Phenanthrene	< 0.1	< 0.1	< 0.1	< 0.1
Anthracene	< 0.1	< 0.1	< 0.1	< 0.1
Fluoranthene	< 0.1	< 0.1	< 0.1	< 0.1
Pyrene	< 0.1	< 0.1	< 0.1	< 0.1
Benzo[a]anthracene	< 0.1	< 0.1	< 0.1	< 0.1
Chrysene	< 0.1	< 0.1	< 0.1	< 0.1
Benzo[b]fluoranthene	< 0.1	< 0.1	< 0.1	< 0.1
Benzo[k]fluoranthene	< 0.1	< 0.1	< 0.1	< 0.1
Benzo[a]pyrene	< 0.1	< 0.1	< 0.1	< 0.1
Indeno[1,2,3-cd]pyrene	< 0.1	< 0.1	< 0.1	< 0.1
Dibenz[a,h]anthracene	< 0.1	< 0.1	< 0.1	< 0.1
Benzo[g,h,i]perylene	< 0.1	< 0.1	< 0.1	< 0.1
n-Decane	< 5	< 5	< 5	< 5
n-Octadecane	< 5	< 5	< 5	< 5
2-Fluorophenol (surr)	39 %R	36 %R	31 %R	39 %R
Phenol-d6 (surr)	28 %R	26 %R	20 %R	27 %R
2,4,6-Tribromophenol (surr)	82 %R	75 %R	81 %R	82 %R
Nitrobenzene-D5 (surr)	72 %R	65 %R	75 %R	73 %R
2-Fluorobiphenyl (surr)	74 %R	68 %R	76 %R	74 %R
p-Terohenvl-D14 (surr)	71 %R	71 %R	80 %R	82 %R



LABORATORY REPORT

EAI ID#: 225363

Client: **Sanborn, Head & Associates, Inc. (NH)**
 Client Designation: **Dalton | Groundwater / 1003.20**

Sample ID: MW-34_20210428

Lab Sample ID: 225363.09
 Matrix: aqueous
 Date Sampled: 4/28/21
 Date Received: 4/29/21
 Units: ug/L
 Date of Extraction/Prep: 4/30/21
 Date of Analysis: 4/30/21
 Analyst: JMR
 Method: 8270D
 Dilution Factor: 1

alpha-Terpineol	< 5
Phenol	< 1
2-Chlorophenol	< 1
2,4-Dichlorophenol	< 1
2,4,5-Trichlorophenol	< 1
2,4,6-Trichlorophenol	< 1
Pentachlorophenol	< 5
2-Nitrophenol	< 5
4-Nitrophenol	< 5
2,4-Dinitrophenol	< 10
2-Methylphenol	< 1
3/4-Methylphenol	< 1
2,4-Dimethylphenol	< 5
4-Chloro-3-methylphenol	< 1
4,6-Dinitro-2-methylphenol	< 5
Benzoic Acid	< 50
N-Nitrosodimethylamine	< 1
n-Nitroso-di-n-propylamine	< 0.5
n-Nitrosodiphenylamine	< 1
bis(2-Chloroethyl)ether	< 1
bis(2-chloroisopropyl)ether	< 1
bis(2-Chloroethoxy)methane	< 1
1,3-Dichlorobenzene	< 1
Acetophenone	< 10
1,4-Dichlorobenzene	< 1
1,2-Dichlorobenzene	< 1
1,2,4-Trichlorobenzene	< 1
2-Chloronaphthalene	< 1
4-Chlorophenyl-phenylether	< 1
4-Bromophenyl-phenylether	< 1
Hexachloroethane	< 1
Hexachlorobutadiene	< 1
Hexachlorocyclopentadiene	< 5
Hexachlorobenzene	< 1
4-Chloroaniline	< 1
2,3-Dichloroaniline	< 1
2-Nitroaniline	< 5
3-Nitroaniline	< 5
4-Nitroaniline	< 5
Aniline	< 1
Benzyl alcohol	< 10
Nitrobenzene	< 1
Isophorone	< 1
2,4-Dinitrotoluene	< 2
2,6-Dinitrotoluene	< 2
Benidine (estimated)	< 5
3,3'-Dichlorobenzidine	< 1



LABORATORY REPORT

EAI ID#: 225363

Client: **Sanborn, Head & Associates, Inc. (NH)**
Client Designation: **Dalton | Groundwater / 1003.20**

Sample ID: MW-34_20210428

Lab Sample ID: 225363.09
Matrix: aqueous
Date Sampled: 4/28/21
Date Received: 4/29/21
Units: ug/L
Date of Extraction/Prep: 4/30/21
Date of Analysis: 4/30/21
Analyst: JMR
Method: 8270D
Dilution Factor: 1

Pyridine	< 5
Azobenzene	< 1
Carbazole	< 1
Dimethylphthalate	< 1
Diethylphthalate	< 5
Di-n-butylphthalate	< 5
Butylbenzylphthalate	< 5
bis(2-Ethylhexyl)phthalate	< 5
Di-n-octylphthalate	< 5
Dibenzofuran	< 1
Naphthalene	< 0.1
2-Methylnaphthalene	< 0.1
1-Methylnaphthalene	< 0.1
Acenaphthylene	< 0.1
Acenaphthene	< 0.1
Fluorene	< 0.1
Phenanthrene	< 0.1
Anthracene	< 0.1
Fluoranthene	< 0.1
Pyrene	< 0.1
Benzo[a]anthracene	< 0.1
Chrysene	< 0.1
Benzo[b]fluoranthene	< 0.1
Benzo[k]fluoranthene	< 0.1
Benzo[a]pyrene	< 0.1
Indeno[1,2,3-cd]pyrene	< 0.1
Dibenz[a,h]anthracene	< 0.1
Benzo[g,h,i]perylene	< 0.1
n-Decane	< 5
n-Octadecane	< 5
2-Fluorophenol (surr)	36 %R
Phenol-d6 (surr)	25 %R
2,4,6-Tribromophenol (surr)	80 %R
Nitrobenzene-D5 (surr)	69 %R
2-Fluorobiphenyl (surr)	69 %R
o-Terphenyl-D14 (surr)	79 %R



QC REPORT

EAI ID#: 225363

Client: Sanborn, Head & Associates, Inc. (NH)

Batch ID: 637553-65202/A043021ABN1

Client Designation: Dalton | Groundwater / 1003.20

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
alpha-Terpineol	< 5	20 (80 %R)	20 (80 %R) (1 RPD)	4/30/2021	ug/L	40 - 140	20	8270D
Phenol	< 1	15 (29 %R)	15 (29 %R) (0 RPD)	4/30/2021	ug/L	15 - 130	20	8270D
2-Chlorophenol	< 1	32 (64 %R)	33 (66 %R) (2 RPD)	4/30/2021	ug/L	30 - 130	20	8270D
2,4-Dichlorophenol	< 1	37 (73 %R)	36 (72 %R) (2 RPD)	4/30/2021	ug/L	30 - 130	20	8270D
2,4,5-Trichlorophenol	< 1	38 (77 %R)	38 (75 %R) (2 RPD)	4/30/2021	ug/L	30 - 130	20	8270D
2,4,6-Trichlorophenol	< 1	39 (78 %R)	38 (76 %R) (2 RPD)	4/30/2021	ug/L	30 - 130	20	8270D
Pentachlorophenol	< 5	38 (75 %R)	38 (76 %R) (0 RPD)	4/30/2021	ug/L	30 - 130	20	8270D
2-Nitrophenol	< 5	40 (79 %R)	40 (81 %R) (2 RPD)	4/30/2021	ug/L	30 - 130	20	8270D
4-Nitrophenol	< 5	17 (33 %R)	16 (32 %R) (4 RPD)	4/30/2021	ug/L	15 - 130	20	8270D
2,4-Dinitrophenol	< 10	40 (80 %R)	39 (77 %R) (3 RPD)	4/30/2021	ug/L	15 - 130	20	8270D
2-Methylphenol	< 1	31 (61 %R)	31 (61 %R) (0 RPD)	4/30/2021	ug/L	30 - 130	20	8270D
3/4-Methylphenol	< 1	30 (60 %R)	30 (60 %R) (0 RPD)	4/30/2021	ug/L	30 - 130	20	8270D
2,4-Dimethylphenol	< 5	36 (71 %R)	35 (70 %R) (1 RPD)	4/30/2021	ug/L	30 - 130	20	8270D
4-Chloro-3-methylphenol	< 1	37 (74 %R)	36 (73 %R) (2 RPD)	4/30/2021	ug/L	30 - 130	20	8270D
4,6-Dinitro-2-methylphenol	< 5	47 (94 %R)	48 (96 %R) (2 RPD)	4/30/2021	ug/L	30 - 130	20	8270D
Benzoic Acid	< 50	< 50 (26 %R)	< 50 (15 %R) (53 RPD) !	4/30/2021	ug/L	15 - 130	20	8270D
N-Nitrosodimethylamine	< 1	11 (45 %R)	12 (46 %R) (3 RPD)	4/30/2021	ug/L	15 - 140	20	8270D
n-Nitroso-di-n-propylamine	< 0.5	19 (76 %R)	19 (76 %R) (1 RPD)	4/30/2021	ug/L	40 - 140	20	8270D
n-Nitrosodiphenylamine	< 1	21 (83 %R)	21 (84 %R) (1 RPD)	4/30/2021	ug/L	40 - 140	20	8270D
bis(2-Chloroethyl)ether	< 1	17 (67 %R)	17 (69 %R) (3 RPD)	4/30/2021	ug/L	40 - 140	20	8270D
bis(2-chloroisopropyl)ether	< 1	16 (66 %R)	17 (67 %R) (2 RPD)	4/30/2021	ug/L	40 - 140	20	8270D
bis(2-Chloroethoxy)methane	< 1	19 (76 %R)	19 (76 %R) (0 RPD)	4/30/2021	ug/L	40 - 140	20	8270D
1,3-Dichlorobenzene	< 1	15 (59 %R)	16 (62 %R) (6 RPD)	4/30/2021	ug/L	40 - 140	20	8270D
Acetophenone	< 10	18 (73 %R)	18 (74 %R) (1 RPD)	4/30/2021	ug/L	40 - 140	20	8270D
1,4-Dichlorobenzene	< 1	14 (58 %R)	15 (61 %R) (5 RPD)	4/30/2021	ug/L	40 - 140	20	8270D
1,2-Dichlorobenzene	< 1	15 (60 %R)	16 (63 %R) (5 RPD)	4/30/2021	ug/L	40 - 140	20	8270D
1,2,4-Trichlorobenzene	< 1	17 (67 %R)	17 (67 %R) (1 RPD)	4/30/2021	ug/L	40 - 140	20	8270D
2-Chloronaphthalene	< 1	19 (75 %R)	18 (74 %R) (1 RPD)	4/30/2021	ug/L	40 - 140	20	8270D
4-Chlorophenyl-phenylether	< 1	20 (79 %R)	20 (79 %R) (0 RPD)	4/30/2021	ug/L	40 - 140	20	8270D
4-Bromophenyl-phenylether	< 1	21 (82 %R)	21 (83 %R) (1 RPD)	4/30/2021	ug/L	40 - 140	20	8270D
Hexachloroethane	< 1	15 (60 %R)	16 (63 %R) (4 RPD)	4/30/2021	ug/L	40 - 140	20	8270D
Hexachlorobutadiene	< 1	17 (67 %R)	17 (67 %R) (0 RPD)	4/30/2021	ug/L	40 - 140	20	8270D
Hexachlorocyclopentadiene	< 5	14 (58 %R)	14 (55 %R) (5 RPD)	4/30/2021	ug/L	15 - 140	20	8270D
Hexachlorobenzene	< 1	21 (82 %R)	21 (84 %R) (2 RPD)	4/30/2021	ug/L	40 - 140	20	8270D
4-Chloroaniline	< 1	19 (78 %R)	19 (75 %R) (4 RPD)	4/30/2021	ug/L	15 - 140	20	8270D
2,3-Dichloroaniline	< 1	20 (79 %R)	20 (79 %R) (1 RPD)	4/30/2021	ug/L	40 - 140	20	8270D
2-Nitroaniline	< 5	22 (88 %R)	22 (88 %R) (0 RPD)	4/30/2021	ug/L	40 - 140	20	8270D
3-Nitroaniline	< 5	21 (82 %R)	20 (82 %R) (1 RPD)	4/30/2021	ug/L	40 - 140	20	8270D
4-Nitroaniline	< 5	22 (86 %R)	22 (87 %R) (1 RPD)	4/30/2021	ug/L	40 - 140	20	8270D
Aniline	< 1	17 (67 %R)	16 (65 %R) (3 RPD)	4/30/2021	ug/L	40 - 140	20	8270D
Benzyl alcohol	< 10	18 (70 %R)	17 (70 %R) (1 RPD)	4/30/2021	ug/L	40 - 140	20	8270D
Nitrobenzene	< 1	18 (72 %R)	19 (74 %R) (2 RPD)	4/30/2021	ug/L	40 - 140	20	8270D
Isophorone	< 1	20 (80 %R)	20 (80 %R) (0 RPD)	4/30/2021	ug/L	40 - 140	20	8270D
2,4-Dinitrotoluene	< 2	20 (81 %R)	21 (83 %R) (1 RPD)	4/30/2021	ug/L	40 - 140	20	8270D
2,6-Dinitrotoluene	< 2	21 (84 %R)	22 (86 %R) (2 RPD)	4/30/2021	ug/L	40 - 140	20	8270D
Benzidine (estimated)	< 5	13 (53 %R)	15 (61 %R) (14 RPD)	4/30/2021	ug/L	1 - 200	50	8270D



QC REPORT

EAI ID#: 225363

Client: Sanborn, Head & Associates, Inc. (NH)

Batch ID: 637553-65202/A043021ABN1

Client Designation: Dalton | Groundwater / 1003.20

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
3,3'-Dichlorobenzidine	< 1	20 (81 %R)	21 (82 %R) (2 RPD)	4/30/2021	ug/L	40 - 140	20	8270D
Pyridine	< 5	13 (51 %R)	12 (49 %R) (3 RPD)	4/30/2021	ug/L	15 - 140	20	8270D
Azobenzene	< 1	21 (86 %R)	22 (87 %R) (1 RPD)	4/30/2021	ug/L	40 - 140	20	8270D
Carbazole	< 1	21 (84 %R)	21 (85 %R) (1 RPD)	4/30/2021	ug/L	40 - 140	20	8270D
Dimethylphthalate	< 1	20 (80 %R)	21 (82 %R) (3 RPD)	4/30/2021	ug/L	40 - 140	20	8270D
Diethylphthalate	< 5	21 (86 %R)	22 (88 %R) (2 RPD)	4/30/2021	ug/L	40 - 140	20	8270D
Di-n-butylphthalate	< 5	23 (93 %R)	24 (94 %R) (2 RPD)	4/30/2021	ug/L	40 - 140	20	8270D
Butylbenzylphthalate	< 5	23 (93 %R)	24 (96 %R) (2 RPD)	4/30/2021	ug/L	40 - 140	20	8270D
bis(2-Ethylhexyl)phthalate	< 5	23 (91 %R)	23 (93 %R) (3 RPD)	4/30/2021	ug/L	40 - 140	20	8270D
Di-n-octylphthalate	< 5	24 (94 %R)	24 (96 %R) (2 RPD)	4/30/2021	ug/L	40 - 140	20	8270D
Dibenzofuran	< 1	19 (77 %R)	19 (77 %R) (1 RPD)	4/30/2021	ug/L	40 - 140	20	8270D
Naphthalene	< 0.1	17 (68 %R)	17 (69 %R) (1 RPD)	4/30/2021	ug/L	40 - 140	20	8270D
2-Methylnaphthalene	< 0.1	18 (71 %R)	17 (70 %R) (1 RPD)	4/30/2021	ug/L	40 - 140	20	8270D
1-Methylnaphthalene	< 0.1	18 (72 %R)	18 (71 %R) (2 RPD)	4/30/2021	ug/L	40 - 140	20	8270D
Acenaphthylene	< 0.1	19 (75 %R)	19 (75 %R) (0 RPD)	4/30/2021	ug/L	40 - 140	20	8270D
Acenaphthene	< 0.1	19 (76 %R)	19 (76 %R) (1 RPD)	4/30/2021	ug/L	40 - 140	20	8270D
Fluorene	< 0.1	19 (76 %R)	19 (77 %R) (0 RPD)	4/30/2021	ug/L	40 - 140	20	8270D
Phenanthrene	< 0.1	19 (77 %R)	20 (79 %R) (3 RPD)	4/30/2021	ug/L	40 - 140	20	8270D
Anthracene	< 0.1	19 (78 %R)	20 (80 %R) (2 RPD)	4/30/2021	ug/L	40 - 140	20	8270D
Fluoranthene	< 0.1	19 (76 %R)	19 (77 %R) (2 RPD)	4/30/2021	ug/L	40 - 140	20	8270D
Pyrene	< 0.1	19 (75 %R)	20 (78 %R) (4 RPD)	4/30/2021	ug/L	40 - 140	20	8270D
Benzo[a]anthracene	< 0.1	19 (78 %R)	20 (79 %R) (2 RPD)	4/30/2021	ug/L	40 - 140	20	8270D
Chrysene	< 0.1	19 (77 %R)	19 (78 %R) (1 RPD)	4/30/2021	ug/L	40 - 140	20	8270D
Benzo[b]fluoranthene	< 0.1	19 (77 %R)	20 (79 %R) (3 RPD)	4/30/2021	ug/L	40 - 140	20	8270D
Benzo[k]fluoranthene	< 0.1	20 (79 %R)	20 (80 %R) (1 RPD)	4/30/2021	ug/L	40 - 140	20	8270D
Benzo[a]pyrene	< 0.1	18 (73 %R)	19 (75 %R) (2 RPD)	4/30/2021	ug/L	40 - 140	20	8270D
Indeno[1,2,3-cd]pyrene	< 0.1	19 (77 %R)	20 (79 %R) (3 RPD)	4/30/2021	ug/L	40 - 140	20	8270D
Dibenz[a,h]anthracene	< 0.1	19 (78 %R)	20 (80 %R) (2 RPD)	4/30/2021	ug/L	40 - 140	20	8270D
Benzo[g,h,i]perylene	< 0.1	19 (76 %R)	19 (78 %R) (2 RPD)	4/30/2021	ug/L	40 - 140	20	8270D
n-Decane	< 5	13 (54 %R)	14 (57 %R) (6 RPD)	4/30/2021	ug/L	40 - 140	20	8270D
n-Octadecane	< 5	22 (89 %R)	22 (89 %R) (1 RPD)	4/30/2021	ug/L	40 - 140	20	8270D
2-Fluorophenol (surr)	43 %R	40 %R	41 %R	4/30/2021	% Rec	15 - 110		8270D
Phenol-d6 (surr)	29 %R	29 %R	29 %R	4/30/2021	% Rec	15 - 110		8270D
2,4,6-Tribromophenol (surr)	85 %R	87 %R	86 %R	4/30/2021	% Rec	15 - 110		8270D
Nitrobenzene-D5 (surr)	80 %R	75 %R	75 %R	4/30/2021	% Rec	30 - 130		8270D
2-Fluorobiphenyl (surr)	79 %R	77 %R	75 %R	4/30/2021	% Rec	30 - 130		8270D
p-Terphenyl-D14 (surr)	82 %R	82 %R	84 %R	4/30/2021	% Rec	30 - 130		8270D

*! Flagged analyte recoveries deviated from the QA/QC limits. Data that impacts sample results are noted on the sample report.



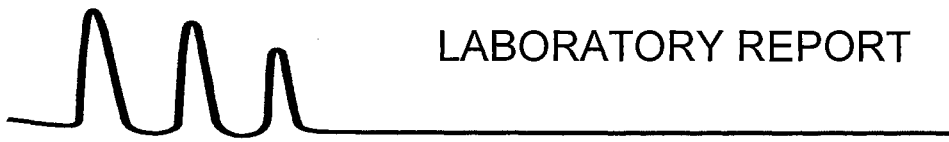
LABORATORY REPORT

EAI ID#: 225363

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Dalton | Groundwater / 1003.20**

Sample ID:	MW-3_20210428	MW-4_20210428	MW-5_20210428	MW-6_20210428
Lab Sample ID:	225363.01	225363.02	225363.03	225363.04
Matrix:	aqueous	aqueous	aqueous	aqueous
Date Sampled:	4/28/21	4/28/21	4/28/21	4/28/21
Date Received:	4/29/21	4/29/21	4/29/21	4/29/21
Units:	ug/L	ug/L	ug/L	ug/L
Date of Extraction/Prep:	4/30/21	4/30/21	4/30/21	4/30/21
Date of Analysis:	4/30/21	4/30/21	4/30/21	4/30/21
Analyst:	AR	AR	AR	AR
Method:	8011/504	8011/504	8011/504	8011/504
Dilution Factor:	1	1	1	1
1,2-Dibromoethane(EDB)	< 0.02	< 0.02	< 0.02	< 0.02
Dibromochloropropane (DBCP)	< 0.02	< 0.02	< 0.02	< 0.02
1,1,1,2-Tetrachloroethane (surr)	104 %R	104 %R	100 %R	103 %R



LABORATORY REPORT

EAI ID#: **225363**

Client: **Sanborn, Head & Associates, Inc. (NH)**
 Client Designation: **Dalton | Groundwater / 1003.20**

Sample ID:	MW-7_20210428	MW-12_20210428	MW-13_20210428	MW-14_20210428
Lab Sample ID:	225363.05	225363.06	225363.07	225363.08
Matrix:	aqueous	aqueous	aqueous	aqueous
Date Sampled:	4/28/21	4/28/21	4/28/21	4/28/21
Date Received:	4/29/21	4/29/21	4/29/21	4/29/21
Units:	ug/L	ug/L	ug/L	ug/L
Date of Extraction/Prep:	4/30/21	4/30/21	4/30/21	4/30/21
Date of Analysis:	4/30/21	4/30/21	4/30/21	4/30/21
Analyst:	AR	AR	AR	AR
Method:	8011/504	8011/504	8011/504	8011/504
Dilution Factor:	1	1	1	1
1,2-Dibromoethane(EDB)	< 0.02	< 0.02	< 0.02	< 0.02
Dibromochloropropane (DBCP)	< 0.02	< 0.02	< 0.02	< 0.02
1,1,1,2-Tetrachloroethane (surr)	102 %R	100 %R	111 %R	103 %R



LABORATORY REPORT

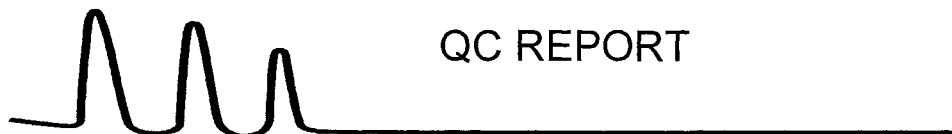
EAI ID#: 225363

Client: **Sanborn, Head & Associates, Inc. (NH)**
Client Designation: **Dalton | Groundwater / 1003.20**

Sample ID: MW-34_20210428

Lab Sample ID: 225363.09
Matrix: aqueous
Date Sampled: 4/28/21
Date Received: 4/29/21
Units: ug/L
Date of Extraction/Prep: 4/30/21
Date of Analysis: 4/30/21
Analyst: AR
Method: 8011/504
Dilution Factor: 1

1,2-Dibromoethane(EDB) < 0.02
Dibromochloropropane (DBCP) < 0.02
1,1,1,2-Tetrachloroethane (surr) 98 %R



QC REPORT

EAI ID#: 225363

Client: **Sanborn, Head & Associates, Inc. (NH)**

Batch ID: 637553-71512/A043021E5041

Client Designation: **Dalton | Groundwater / 1003.20**

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
1,2-Dibromoethane(EDB)	< 0.02	0.11 (113 %R)	0.10 (105 %R) (7 RPD)	4/30/2021	ug/L	70 - 130	20	8011/504
Dibromochloropropane (DBCP)	< 0.02	0.11 (109 %R)	0.099 (99 %R) (10 RPD)	4/30/2021	ug/L	70 - 130	20	8011/504
1,1,1,2-Tetrachloroethane (surr)	99 %R	102 %R	101 %R	4/30/2021	% Rec	65 - 135	20	8011/504

*! Flagged analyte recoveries deviated from the QA/QC limits. Data that impacts sample results are noted on the sample report.



LABORATORY REPORT

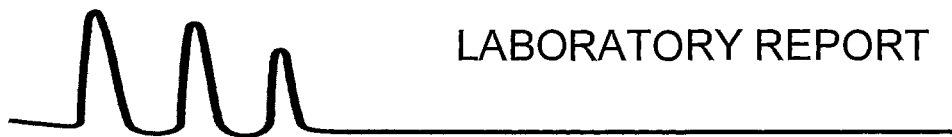
EAI ID#: 225363

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Dalton | Groundwater / 1003.20**

Sample ID:	MW-3_20210428	MW -4_20210428	MW -5_20210428	MW -6_20210428		Analysis				
Lab Sample ID:	225363.01	225363.02	225363.03	225363.04		Units	Date	Time	Method	Analyst
Matrix:	aqueous	aqueous	aqueous	aqueous						
Date Sampled:	4/28/21	4/28/21	4/28/21	4/28/21						
Date Received:	4/29/21	4/29/21	4/29/21	4/29/21						
Sulfate	3.5	3	3.6	5.9	mg/L	05/03/21	17:45		300.0	ATA
Chloride	< 1	< 1	< 1	< 1	mg/L	04/29/21	16:23		4500CIE-11	ATA
Nitrate-N	< 0.5	< 0.5	< 0.5	< 0.5	mg/L	04/29/21	16:23		353.2	ATA
TKN	< 0.5	< 0.5	< 0.5	< 0.5	mg/L	05/03/21	13:06		4500N _{org} C/NH3D	SEL
COD	< 10	< 10	< 10	< 10	mg/L	04/29/21	16:30		H8000	JCS
Dissolved Organic Carbon	2.1	0.82	5.4	1.2	mg/L	05/04/21	12:16		5310C-00	LO

Sample ID:	MW-7_20210428	MW -12_20210428	MW -13_20210428	MW -14_20210428		Analysis				
Lab Sample ID:	225363.05	225363.06	225363.07	225363.08		Units	Date	Time	Method	Analyst
Matrix:	aqueous	aqueous	aqueous	aqueous						
Date Sampled:	4/28/21	4/28/21	4/28/21	4/28/21						
Date Received:	4/29/21	4/29/21	4/29/21	4/29/21						
Sulfate	6.7	3.7	2.4	4.6	mg/L	05/03/21	18:46		300.0	ATA
Chloride	< 1	1	< 1	< 1	mg/L	04/29/21	16:29		4500CIE-11	ATA
Nitrate-N	< 0.5	< 0.5	< 0.5	< 0.5	mg/L	04/29/21	16:29		353.2	ATA
TKN	< 0.5	< 0.5	< 0.5	< 0.5	mg/L	05/03/21	13:30		4500N _{org} C/NH3D	SEL
COD	< 10	< 10	< 10	< 10	mg/L	04/29/21	16:30		H8000	JCS
Dissolved Organic Carbon	1.8	0.75	1.7	4.1	mg/L	05/04/21	13:10		5310C-00	LO



LABORATORY REPORT

EAI ID#: 225363

Client: **Sanborn, Head & Associates, Inc. (NH)**
 Client Designation: **Dalton | Groundwater / 1003.20**

Sample ID: MW-34_20210428

Lab Sample ID: 225363.09
 Matrix: aqueous
 Date Sampled: 4/28/21
 Date Received: 4/29/21

		Analysis				
		Units	Date	Time	Method	Analyst
Sulfate	2	mg/L	5/03/21	19:46	300.0	ATA
Chloride	< 1	mg/L	4/29/21	16:36	4500CIE-11	ATA
Nitrate-N	< 0.5	mg/L	4/29/21	16:36	353.2	ATA
TKN	< 0.5	mg/L	5/03/21	13:41	4500N _{org} C/NH3D	SEL
COD	< 10	mg/L	4/29/21	16:30	H8000	JCS
Dissolved Organic Carbon	0.69	mg/L	5/04/21	14:04	5310C-00	LO



QC REPORT

EAI ID#: 225363

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Dalton | Groundwater / 1003.20**

Parameter Name	Blank	LCS	LCSD	Units	Date of Analysis	Limits	RPD	Method
Sulfate	< 1	19 (97 %R)	20 (98 %R) (1 RPD)	mg/L	5/4/21	90 - 110	20	300.0
Chloride	< 1	24 (96 %R)	25 (99 %R) (3 RPD)	mg/L	4/29/21	90 - 110	20	4500CIE-11
Nitrate-N	< 0.5	4.5 (91 %R)	4.6 (92 %R) (2 RPD)	mg/L	4/29/21	90 - 110	20	353.2
TKN	< 0.5	10 (104 %R)	11 (105 %R) (1 RPD)	mg/L	5/3/21	90 - 111	20	4500N _{org} C/NH3D-11
COD	< 10	98 (98 %R)	97 (97 %R) (1 RPD)	mg/L	4/29/21	85 - 115	20	H8000
Dissolved Organic Carbon	< 0.5	10 (103 %R)	10 (103 %R) (0 RPD)	mg/L	5/4/21	90 - 110	20	5310C-00

*! Flagged analyte recoveries deviated from the QA/QC limits. Unless noted, flagged data does not impact the sample data.



LABORATORY REPORT

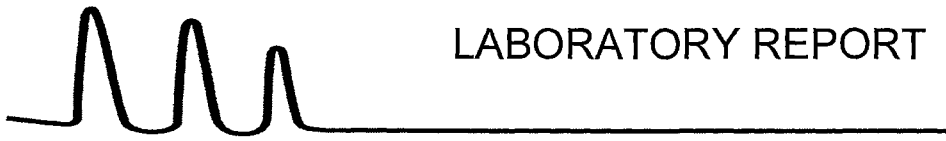
EAI ID#: 225363

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Dalton | Groundwater / 1003.20**

Sample ID:	MW-3_20210428	MW -4_20210428	MW -5_20210428	MW -6_20210428					
Lab Sample ID:	225363.01	225363.02	225363.03	225363.04					
Matrix:	aqueous	aqueous	aqueous	aqueous					
Date Sampled:	4/28/21	4/28/21	4/28/21	4/28/21	Analytical		Date of		
Date Received:	4/29/21	4/29/21	4/29/21	4/29/21	Matrix	Units	Analysis	Method	Analyst
Antimony	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	4/30/21	200.8	DS
Arsenic	< 0.0005	< 0.0005	0.0069	< 0.0005	AqDis	mg/L	4/30/21	200.8	DS
Barium	0.018	0.0053	0.045	0.012	AqDis	mg/L	4/30/21	200.8	DS
Beryllium	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	4/30/21	200.8	DS
Cadmium	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	4/30/21	200.8	DS
Chromium	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	4/30/21	200.8	DS
Copper	0.0018	< 0.001	0.0017	< 0.001	AqDis	mg/L	4/30/21	200.8	DS
Iron	< 0.05	< 0.05	3.0	< 0.05	AqDis	mg/L	4/30/21	200.8	DS
Lead	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	4/30/21	200.8	DS
Manganese	< 0.005	< 0.005	4.1	< 0.005	AqDis	mg/L	4/30/21	200.8	DS
Mercury	< 0.0001	< 0.0001	< 0.0001	< 0.0001	AqDis	mg/L	4/30/21	200.8	DS
Nickel	< 0.001	< 0.001	0.0013	< 0.001	AqDis	mg/L	4/30/21	200.8	DS
Silver	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	4/30/21	200.8	DS
Thallium	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	4/30/21	200.8	DS

Sample ID:	MW-7_20210428	MW -12_20210428	MW -13_20210428	MW -14_20210428					
Lab Sample ID:	225363.05	225363.06	225363.07	225363.08					
Matrix:	aqueous	aqueous	aqueous	aqueous					
Date Sampled:	4/28/21	4/28/21	4/28/21	4/28/21	Analytical		Date of		
Date Received:	4/29/21	4/29/21	4/29/21	4/29/21	Matrix	Units	Analysis	Method	Analyst
Antimony	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	4/30/21	200.8	DS
Arsenic	0.00078	< 0.0005	< 0.0005	0.00085	AqDis	mg/L	4/30/21	200.8	DS
Barium	0.021	0.024	0.012	0.050	AqDis	mg/L	4/30/21	200.8	DS
Beryllium	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	4/30/21	200.8	DS
Cadmium	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	4/30/21	200.8	DS
Chromium	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	4/30/21	200.8	DS
Copper	0.0023	0.0019	< 0.001	0.0021	AqDis	mg/L	4/30/21	200.8	DS
Iron	0.15	0.070	0.057	3.9	AqDis	mg/L	4/30/21	200.8	DS
Lead	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	4/30/21	200.8	DS
Manganese	0.018	0.0062	0.014	0.45	AqDis	mg/L	4/30/21	200.8	DS
Mercury	< 0.0001	< 0.0001	< 0.0001	< 0.0001	AqDis	mg/L	4/30/21	200.8	DS
Nickel	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	4/30/21	200.8	DS
Silver	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	4/30/21	200.8	DS
Thallium	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	4/30/21	200.8	DS



LABORATORY REPORT

EAI ID#: **225363**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Dalton | Groundwater / 1003.20**

Sample ID: MW-34_20210428

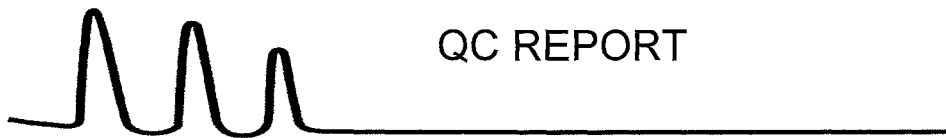
Lab Sample ID: 225363.09

Matrix: aqueous

Date Sampled: 4/28/21

Date Received: 4/29/21

		Analytical Matrix	Units	Date of Analysis	Method	Analyst
Antimony	< 0.001	AqDis	mg/L	4/30/21	200.8	DS
Arsenic	< 0.0005	AqDis	mg/L	4/30/21	200.8	DS
Barium	0.0062	AqDis	mg/L	4/30/21	200.8	DS
Beryllium	< 0.001	AqDis	mg/L	4/30/21	200.8	DS
Cadmium	< 0.001	AqDis	mg/L	4/30/21	200.8	DS
Chromium	< 0.001	AqDis	mg/L	4/30/21	200.8	DS
Copper	< 0.001	AqDis	mg/L	4/30/21	200.8	DS
Iron	< 0.05	AqDis	mg/L	4/30/21	200.8	DS
Lead	< 0.001	AqDis	mg/L	4/30/21	200.8	DS
Manganese	< 0.005	AqDis	mg/L	4/30/21	200.8	DS
Mercury	0.00035	AqDis	mg/L	4/30/21	200.8	DS
Nickel	< 0.001	AqDis	mg/L	4/30/21	200.8	DS
Silver	< 0.001	AqDis	mg/L	4/30/21	200.8	DS
Thallium	< 0.001	AqDis	mg/L	4/30/21	200.8	DS



QC REPORT

EAI ID#: 225363

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Dalton | Groundwater / 1003.20**

Parameter Name	Blank	LCS	LCSD	Units	Date of Analysis	Limits	RPD	Method
Antimony	< 0.001	0.21 (105 %R)	NA	mg/L	4/30/21	85 - 115	20	200.8
Arsenic	< 0.0005	0.21 (105 %R)	NA	mg/L	4/30/21	85 - 115	20	200.8
Barium	< 0.001	0.21 (106 %R)	NA	mg/L	4/30/21	85 - 115	20	200.8
Beryllium	< 0.001	0.20 (100 %R)	NA	mg/L	4/30/21	85 - 115	20	200.8
Cadmium	< 0.001	0.20 (101 %R)	NA	mg/L	4/30/21	85 - 115	20	200.8
Chromium	< 0.001	0.20 (100 %R)	NA	mg/L	4/30/21	85 - 115	20	200.8
Copper	< 0.001	0.20 (100 %R)	NA	mg/L	4/30/21	85 - 115	20	200.8
Iron	< 0.05	10 (100 %R)	NA	mg/L	4/30/21	85 - 115	20	200.8
Lead	< 0.001	0.20 (99 %R)	NA	mg/L	4/30/21	85 - 115	20	200.8
Manganese	< 0.005	0.20 (99 %R)	NA	mg/L	4/30/21	85 - 115	20	200.8
Mercury	< 0.0001	0.0010 (103 %R)	NA	mg/L	4/30/21	85 - 115	20	200.8
Nickel	< 0.001	0.20 (99 %R)	NA	mg/L	4/30/21	85 - 115	20	200.8
Silver	< 0.001	0.18 (91 %R)	NA	mg/L	4/30/21	85 - 115	20	200.8
Thallium	< 0.001	0.20 (102 %R)	NA	mg/L	4/30/21	85 - 115	20	200.8

*! Flagged analyte recoveries deviated from the QA/QC limits. Unless noted, flagged data does not impact the sample data.

Chain-of-Custody Record

Sample ID	Sampling Date/Time <i>*If Composite, Indicate Both Start & Finish Date/Time</i>	Matrix (see below)	Grab/ <i>*Composite</i>	Analyses Requested																	# of Containers	NOTES MeOH Vial #						
				VOCs - EPA 8260C	Low Level 1,4-Dioxane (USEPA 8260B-SIM)	Low Level EDB/DBCP (904-1)	S/VOCs (EPA 8270D)	COD (SM 5220D); TKN (SM 4500NorgC/NH3D)	DOC (5310C)	Chloride, Nitrate, Sulfate (EPA 300.0)	Dissolved Metals List A (EPA 200.8)	Total Metals List A (EPA 200.8)	Dissolved Metals List B (EPA 200.8)	Total Metals List B (EPA 200.8)														
MW-3_20210428	4/28/21 - 1005	GW	G	X	X	X	X	X	X	X	X			X														11
MW-4_202104	- 0925	GW	G	X	X	X	X	X	X	X	X			X														
MW-5_202104	- 1410	GW	G	X	X	X	X	X	X	X	X			X														
MW-6_202104	- 1215	GW	G	X	X	X	X	X	X	X	X			X														
MW-7_202104	4/28/21 - 1425	GW	G	X	X	X	X	X	X	X	X			X														
MW-9_202104		GW	G	X	X	X	X	X	X	X	X																	
MW-10_202104		GW	G	X	X	X		X	X	X	X																	
MW-11_202104		GW	G	X	X	X	X	X	X	X	X																	
MW-12_202104 28	4/28/21 - 1325	GW	G	X	X	X	X	X	X	X	X			X														11
MW-13_202104 28	4/28/21 - 1310	GW	G	X	X	X	X	X	X	X	X			X														11
Matrix: A-Air; S-Soil; GW-Ground Water; SW-Surface Water; DW-Drinking Water; WW-Waste Water; AQ-Aqueous Preservative: H-HCl; N-HNO3; S-H2SO4; Na-NaOH; M-MeOH; NSO-Na2S2O3				H	Ice	NSO	Ice	S	Ice	Ice	N	N	N	N														

Project Manager: T. White
 Company: Sanborn, Head & Associates, Inc.
 Address: 20 Foundry Street
 City: Concord State: NH Zip: 03301
 Phone: 603-229-1900 Ext.:
 Fax: 603-229-1919
 E-Mail: twhite@sanbornhead.com
 Site Name: Dalton | Groundwater
 Project #: 1003.20
 State: NH
 Regulatory Program: NPDES; RGP POTW Stormwater or GWP, Oil Fund, Brownfield or Other:
 Quote #: PO#:

Date Needed: Standard TAT
 Temp. 21 °C
 Ice? Yes No
 Reporting Level: A B C
 or
 Presumptive Certainty
 Reporting Options: Prelims: Yes or No
 If Yes: Fax or PDF
 Electronic Options: No Fax E-Mail PDF Equis
 Relinquished By: *Frank Valter* Date: 4/29/21 Time: 0858 Received By: *Frank Valter*
 Relinquished By: *Frank Valter* Date: 4/28/21 Time: 1530 Received By: *Frank Valter*

Metals: Lists Below Samples Field Filtered: YES
 A: Fe, Mn
 B: Fe, Mn, As, Sb, Ba, Be, Cd, Cr, Cu, Pb, Hg, Ni, Ag, Tl
 C:
 Notes: (i.e., Special Detection Limits, Billing Info, If Different)
 Trip blank(s) prepared by EAI.
 Bill GSL.
 *Report 1,4-dioxane to 0.25 ug/l RL
 *Hold Final report until EQUIS EDD ready.
 Field Readings:



25 Chenell Drive | Concord, NH 03301 | Tel: 603.228.0525 | 1.800.287.0525 | Fax: 603.228.4591 | E-Mail: customerservice@eailabs.com | www.eailabs.com

Chain-of-Custody Record

For L

225363

Sample ID	Sampling Date/Time <small>*If Composite, Indicate Both Start & Finish Date/Time</small>	Matrix (see below)	Grab/*Composite	Analyses Requested																		# of Containers	NOTES MeOH Vial #				
				VOCs - EPA 8260C		Low Level ED/DBCP (504.1)	SVOCs (EPA 8270D)	COD (SM 5200); TKN (SM4600mgCANH3D)	DOC (5310C)	Chloride, Nitrate, Sulfate (EPA 300.0)	Dissolved Metals List A (EPA 200.8)	Total Metals List A (EPA 200.8)	Dissolved Metals List B (EPA 200.8)	Total Metals List B (EPA 200.8)													
				Low Level 1,4-Dioxane (USEPA 8260B-SM)																							
MW-14_20210428	4/28/21 - 1400	GW	G	X	X	X	X	X	X	X	X			X													11
MW-21U_202104		GW	G	X	X	X	X	X	X	X	X																
MW-21L_202104		GW	G	X	X	X	X	X	X	X	X																
MW-22_202104		GW	G	X	X	X	X	X	X	X	X																
MW-22R_202104		GW	G	X	X	X	X	X	X	X	X			X	MIS												
MW-34_20210428	4/28/21 - 0820	GW	G	X	X	X	X	X	X	X	X			X													11
MW-34R_202104		GW	G	X	X	X	X	X	X	X	X			X	MIS												
GWDup 1_202104		GW	G	X	X	X	X	X	X	X	X			X	MIS												
TB-GW-02_20210428	4/28/21 - 1515	GW	G	X																							2
TB-LL-GW-02_20210428	4/28/21 - 1515	GW	G		X																						2
				H	Ice	NSO	Ice	S	Ice	Ice	N	N	N	N													

Matrix: A-Air; S-Soil; GW-Ground Water; SW-Surface Water; DW-Drinking Water; WW-Waste Water; AQ-Aqueous
 Preservative: H-HCl; N-HNO3; S-H2SO4; Na-NaOH; M-MeOH; NSO-Na2S2O3

33

Project Manager: T. White
 Company: Sanborn, Head & Associates, Inc.
 Address: 20 Foundry Street
 City: Concord State: NH Zip: 03301
 Phone: 603-229-1900 Ext.:
 Fax: 603-229-1919
 E-Mail: twhite@sanbornhead.com
 Site Name: Dalton | Groundwater
 Project # 1003.20
 State: NH
 Regulatory Program: NPDES: RGP POTW Stormwater or GWP, Oil Fund, Brownfield or Other:
 Quote #: PO#:

Date Needed: Standard TAT

Temp. 21 °C
 Ice? Yes No

QA/QC Reporting Level: A B C
 or Presumptive Certainty

Reporting Options: Prelims: Yes or No
 If Yes: Fax or PDF

Electronic Options: No Fax E-Mail PDF Equis

Sampler(s): MTS GAP
 4/28/21 1530 / 4/29/21-0840
 Relinquished By: [Signature] Date: 4/29/21 Time: 0858 Received By: [Signature]

Metals: Lists Below Samples Field Filtered: YES
 A: Fe, Mn
 B: Fe, Mn, As, Sb, Ba, Be, Cd, Cr, Cu, Pb, Hg, Ni, Ag, Tl
 C:
 Notes: (i.e., Special Detection Limits, Billing Info, if Different)
 Trip blank(s) prepared by EAI.
 Bill GSL.
 *Report 1,4-dioxane to 0.25 ug/l
 RL:
 *Hold Final report until EQUIS EDD ready.
 Field Readings: _____



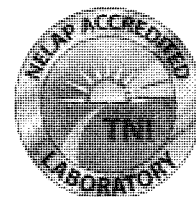
25 Chenell Drive | Concord, NH 03301 | Tel: 603.228.0525 | 1.800.287.0525 | Fax: 603.228.4591 | E-Mail: customerservice@eailabs.com | www.eailabs.com



Eastern Analytical, Inc.

professional laboratory and drilling services

Tim White
Sanborn, Head & Associates, Inc. (NH)
20 Foundry Street
Concord, NH 03301



Laboratory Report for:

Eastern Analytical, Inc. ID: 225398
Client Identification: Dalton | Groundwater / 1003.20
Date Received: 4/29/2021

Enclosed are the analytical results per the Chain of Custody for sample(s) in the referenced project. All analyses were performed in accordance with our QA/QC Program, NELAP and other applicable state requirements. All quality control criteria was within acceptance criteria unless noted on the report pages. Results are for the exclusive use of the client named on this report and will not be released to a third party without consent.

The following information is contained within this report: Sample Conditions summary, Analytical Results/Data, Quality Control data (if requested) and copies of the Chain of Custody. This report may not be reproduced except in full, without the written approval of the laboratory.

The following standard abbreviations and conventions apply to all EAI reports:

- < : "less than" followed by the reporting limit
- > : "greater than" followed by the reporting limit
- %R : % Recovery

Certifications:

Eastern Analytical, Inc. maintains certification in the following states: Connecticut (PH-0492), Maine (NH005), Massachusetts (M-NH005), New Hampshire/NELAP (1012), Rhode Island (269), Vermont (VT1012), New York (12072), West Virginia (9910C) and Alabama (41620). Please refer to our website at www.easternanalytical.com for a copy of our certificates and accredited parameters.

References:

- EPA 600/4-79-020, 1983
- Standard Methods for Examination of Water and Wastewater, 20th, 21st, 22nd & 23rd edition or noted revision year.
- Test Methods for Evaluating Solid Waste SW 846 3rd Edition including updates IVA and IVB
- Hach Water Analysis Handbook, 4th edition, 1992

If you have any questions regarding the results contained within, please feel free to contact customer service. Unless otherwise requested, we will dispose of the sample(s) 6 weeks from the sample receipt date.

We appreciate this opportunity to be of service and look forward to your continued patronage.

Sincerely,

Lorraine Olashaw
Lorraine Olashaw, Lab Director

5.6.21
Date

18
of pages (excluding cover letter)



SAMPLE CONDITIONS PAGE

EAI ID#: 225398

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Dalton | Groundwater / 1003.20**

Temperature upon receipt (°C): **4.7**

Received on ice or cold packs (Yes/No): **Y**

Acceptable temperature range (°C): 0-6

Lab ID	Sample ID	Date Received	Date/Time Sampled	Sample Matrix	% Dry Weight	Exceptions/Comments (other than thermal preservation)
225398.01	MW-34R_20210429	4/29/21	4/29/21 09:45	aqueous		Adheres to Sample Acceptance Policy

All results contained in this report relate only to the above listed samples.

Unless otherwise noted:

- Hold times, preservation, container types, and sample conditions adhered to EPA Protocol.
- Solid samples are reported on a dry weight basis, unless otherwise noted. pH/Corrosivity, Flashpoint, Ignitability, Paint Filter, Conductivity and Specific Gravity are always reported on an "as received" basis.
- Analysis of pH, Total Residual Chlorine, Dissolved Oxygen and Sulfite were performed at the laboratory outside of the recommended 15 minute hold time.
- Samples collected by Eastern Analytical, Inc. (EAI) were collected in accordance with approved EPA procedures.



LABORATORY REPORT

EAI ID#: 225398

Client: **Sanborn, Head & Associates, Inc. (NH)**
Client Designation: **Dalton | Groundwater / 1003.20**

Sample ID: MW-34R_20210429

Lab Sample ID: 225398.01
Matrix: aqueous
Date Sampled: 4/29/21
Date Received: 4/29/21
Units: ug/L
Date of Analysis: 4/30/21
Analyst: SG
Method: 8260C
Dilution Factor: 1

Dichlorodifluoromethane	< 2
Chloromethane	< 2
Vinyl chloride	< 1
Bromomethane	< 2
Chloroethane	< 2
Trichlorofluoromethane	< 2
Diethyl Ether	< 2
Acetone	< 10
1,1-Dichloroethene	< 0.5
tert-Butyl Alcohol (TBA)	< 30
Methylene chloride	< 1
Carbon disulfide	< 2
Methyl-t-butyl ether(MTBE)	< 1
Ethyl-t-butyl ether(ETBE)	< 2
Isopropyl ether(DIPE)	< 2
tert-amyl methyl ether(TAME)	< 2
trans-1,2-Dichloroethene	< 1
1,1-Dichloroethane	< 1
2,2-Dichloropropane	< 1
cis-1,2-Dichloroethene	< 1
2-Butanone(MEK)	< 10
Bromochloromethane	< 1
Tetrahydrofuran(THF)	< 10
Chloroform	< 1
1,1,1-Trichloroethane	< 1
Carbon tetrachloride	< 1
1,1-Dichloropropene	< 1
Benzene	< 1
1,2-Dichloroethane	< 1
Trichloroethene	< 1
1,2-Dichloropropane	< 1
Dibromomethane	< 1
Bromodichloromethane	< 0.5
1,4-Dioxane	< 50
4-Methyl-2-pentanone(MIBK)	< 10
cis-1,3-Dichloropropene	< 0.5
Toluene	< 1
trans-1,3-Dichloropropene	< 0.5
1,1,2-Trichloroethane	< 1
2-Hexanone	< 10
Tetrachloroethene	< 1
1,3-Dichloropropane	< 1
Dibromochloromethane	< 1
1,2-Dibromoethane(EDB)	< 0.5
Chlorobenzene	< 1
1,1,1,2-Tetrachloroethane	< 1



LABORATORY REPORT

EAI ID#: 225398

Client: **Sanborn, Head & Associates, Inc. (NH)**
Client Designation: **Dalton | Groundwater / 1003.20**

Sample ID: MW-34R_20210429

Lab Sample ID: 225398.01
Matrix: aqueous
Date Sampled: 4/29/21
Date Received: 4/29/21
Units: ug/L
Date of Analysis: 4/30/21
Analyst: SG
Method: 8260C
Dilution Factor: 1

Ethylbenzene	< 1
mp-Xylene	< 1
o-Xylene	< 1
Styrene	< 1
Bromoform	< 2
IsoPropylbenzene	< 1
Bromobenzene	< 1
1,1,2,2-Tetrachloroethane	< 1
1,2,3-Trichloropropane	< 0.5
n-Propylbenzene	< 1
2-Chlorotoluene	< 1
4-Chlorotoluene	< 1
1,3,5-Trimethylbenzene	< 1
tert-Butylbenzene	< 1
1,2,4-Trimethylbenzene	< 1
sec-Butylbenzene	< 1
1,3-Dichlorobenzene	< 1
p-Isopropyltoluene	< 1
1,4-Dichlorobenzene	< 1
1,2-Dichlorobenzene	< 1
n-Butylbenzene	< 1
1,2-Dibromo-3-chloropropane	< 2
1,3,5-Trichlorobenzene	< 1
1,2,4-Trichlorobenzene	< 1
Hexachlorobutadiene	< 0.5
Naphthalene	< 2
1,2,3-Trichlorobenzene	< 0.5
4-Bromofluorobenzene (surr)	100 %R
1,2-Dichlorobenzene-d4 (surr)	97 %R
Toluene-d8 (surr)	104 %R
1,2-Dichloroethane-d4 (surr)	100 %R



QC REPORT

EAI ID#: **225398**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Batch ID: 637553-80159/A043021V82601

Client Designation: **Dalton | Groundwater / 1003.20**

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
Dichlorodifluoromethane	< 2	17 (86 %R)	17 (87 %R) (2 RPD)	4/30/2021	ug/L	40 - 160	20	8260C
Chloromethane	< 2	18 (90 %R)	18 (92 %R) (3 RPD)	4/30/2021	ug/L	40 - 160	20	8260C
Vinyl chloride	< 1	22 (111 %R)	23 (114 %R) (3 RPD)	4/30/2021	ug/L	70 - 130	20	8260C
Bromomethane	< 2	14 (70 %R)	14 (72 %R) (3 RPD)	4/30/2021	ug/L	40 - 160	20	8260C
Chloroethane	< 2	18 (91 %R)	19 (93 %R) (2 RPD)	4/30/2021	ug/L	70 - 130	20	8260C
Trichlorofluoromethane	< 2	20 (100 %R)	20 (102 %R) (2 RPD)	4/30/2021	ug/L	70 - 130	20	8260C
Diethyl Ether	< 2	19 (96 %R)	19 (96 %R) (0 RPD)	4/30/2021	ug/L	70 - 130	20	8260C
Acetone	< 10	19 (95 %R)	20 (98 %R) (3 RPD)	4/30/2021	ug/L	40 - 160	20	8260C
1,1-Dichloroethene	< 0.5	20 (101 %R)	21 (103 %R) (2 RPD)	4/30/2021	ug/L	70 - 130	20	8260C
tert-Butyl Alcohol (TBA)	< 30	94 (94 %R)	96 (96 %R) (2 RPD)	4/30/2021	ug/L	70 - 130	20	8260C
Methylene chloride	< 1	18 (92 %R)	19 (93 %R) (2 RPD)	4/30/2021	ug/L	70 - 130	20	8260C
Carbon disulfide	< 2	18 (90 %R)	18 (92 %R) (2 RPD)	4/30/2021	ug/L	70 - 130	20	8260C
Methyl-t-butyl ether(MTBE)	< 1	19 (97 %R)	20 (98 %R) (1 RPD)	4/30/2021	ug/L	70 - 130	20	8260C
Ethyl-t-butyl ether(ETBE)	< 2	20 (99 %R)	20 (101 %R) (2 RPD)	4/30/2021	ug/L	70 - 130	20	8260C
Isopropyl ether(DIPE)	< 2	20 (98 %R)	20 (100 %R) (2 RPD)	4/30/2021	ug/L	70 - 130	20	8260C
tert-amyl methyl ether(TAME)	< 2	20 (98 %R)	20 (100 %R) (2 RPD)	4/30/2021	ug/L	70 - 130	20	8260C
trans-1,2-Dichloroethene	< 1	20 (102 %R)	21 (104 %R) (2 RPD)	4/30/2021	ug/L	70 - 130	20	8260C
1,1-Dichloroethane	< 1	20 (100 %R)	21 (103 %R) (2 RPD)	4/30/2021	ug/L	70 - 130	20	8260C
2,2-Dichloropropane	< 1	21 (105 %R)	21 (106 %R) (2 RPD)	4/30/2021	ug/L	70 - 130	20	8260C
cis-1,2-Dichloroethene	< 1	20 (99 %R)	20 (100 %R) (1 RPD)	4/30/2021	ug/L	70 - 130	20	8260C
2-Butanone(MEK)	< 10	19 (93 %R)	19 (95 %R) (2 RPD)	4/30/2021	ug/L	40 - 160	20	8260C
Bromochloromethane	< 1	21 (103 %R)	21 (103 %R) (0 RPD)	4/30/2021	ug/L	70 - 130	20	8260C
Tetrahydrofuran(THF)	< 10	19 (95 %R)	19 (96 %R) (1 RPD)	4/30/2021	ug/L	70 - 130	20	8260C
Chloroform	< 1	18 (90 %R)	19 (93 %R) (3 RPD)	4/30/2021	ug/L	70 - 130	20	8260C
1,1,1-Trichloroethane	< 1	20 (100 %R)	20 (102 %R) (3 RPD)	4/30/2021	ug/L	70 - 130	20	8260C
Carbon tetrachloride	< 1	20 (98 %R)	20 (101 %R) (3 RPD)	4/30/2021	ug/L	70 - 130	20	8260C
1,1-Dichloropropene	< 1	20 (101 %R)	21 (105 %R) (4 RPD)	4/30/2021	ug/L	70 - 130	20	8260C
Benzene	< 1	20 (101 %R)	21 (103 %R) (2 RPD)	4/30/2021	ug/L	70 - 130	20	8260C
1,2-Dichloroethane	< 1	19 (95 %R)	19 (96 %R) (1 RPD)	4/30/2021	ug/L	70 - 130	20	8260C
Trichloroethene	< 1	20 (98 %R)	20 (101 %R) (4 RPD)	4/30/2021	ug/L	70 - 130	20	8260C
1,2-Dichloropropane	< 1	20 (99 %R)	20 (101 %R) (1 RPD)	4/30/2021	ug/L	70 - 130	20	8260C
Dibromomethane	< 1	19 (96 %R)	20 (98 %R) (1 RPD)	4/30/2021	ug/L	70 - 130	20	8260C
Bromodichloromethane	< 0.5	20 (100 %R)	20 (101 %R) (1 RPD)	4/30/2021	ug/L	70 - 130	20	8260C
1,4-Dioxane	< 50	< 50 (99 %R)	< 50 (100 %R) (1 RPD)	4/30/2021	ug/L	40 - 160	20	8260C
4-Methyl-2-pentanone(MIBK)	< 10	19 (93 %R)	19 (94 %R) (2 RPD)	4/30/2021	ug/L	40 - 160	20	8260C
cis-1,3-Dichloropropene	< 0.5	19 (97 %R)	20 (98 %R) (1 RPD)	4/30/2021	ug/L	70 - 130	20	8260C
Toluene	< 1	20 (102 %R)	21 (106 %R) (4 RPD)	4/30/2021	ug/L	70 - 130	20	8260C
trans-1,3-Dichloropropene	< 0.5	21 (104 %R)	21 (106 %R) (2 RPD)	4/30/2021	ug/L	70 - 130	20	8260C
1,1,2-Trichloroethane	< 1	20 (101 %R)	21 (103 %R) (3 RPD)	4/30/2021	ug/L	70 - 130	20	8260C
2-Hexanone	< 10	19 (93 %R)	19 (96 %R) (3 RPD)	4/30/2021	ug/L	40 - 160	20	8260C
Tetrachloroethene	< 1	20 (102 %R)	21 (106 %R) (4 RPD)	4/30/2021	ug/L	70 - 130	20	8260C
1,3-Dichloropropane	< 1	20 (99 %R)	20 (100 %R) (2 RPD)	4/30/2021	ug/L	70 - 130	20	8260C
Dibromochloromethane	< 1	20 (100 %R)	20 (102 %R) (2 RPD)	4/30/2021	ug/L	70 - 130	20	8260C
1,2-Dibromoethane(EDB)	< 0.5	20 (98 %R)	20 (101 %R) (3 RPD)	4/30/2021	ug/L	70 - 130	20	8260C
Chlorobenzene	< 1	21 (103 %R)	21 (107 %R) (3 RPD)	4/30/2021	ug/L	70 - 130	20	8260C
1,1,1,2-Tetrachloroethane	< 1	20 (102 %R)	21 (105 %R) (3 RPD)	4/30/2021	ug/L	70 - 130	20	8260C



QC REPORT

EAI ID#: 225398

Client: Sanborn, Head & Associates, Inc. (NH)

Batch ID: 637553-80159/A043021V82601

Client Designation: Dalton | Groundwater / 1003.20

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
Ethylbenzene	< 1	21 (105 %R)	22 (110 %R) (4 RPD)	4/30/2021	ug/L	70 - 130	20	8260C
mp-Xylene	< 1	41 (103 %R)	43 (107 %R) (4 RPD)	4/30/2021	ug/L	70 - 130	20	8260C
o-Xylene	< 1	21 (104 %R)	21 (107 %R) (3 RPD)	4/30/2021	ug/L	70 - 130	20	8260C
Styrene	< 1	21 (106 %R)	22 (109 %R) (3 RPD)	4/30/2021	ug/L	70 - 130	20	8260C
Bromoform	< 2	20 (99 %R)	21 (103 %R) (3 RPD)	4/30/2021	ug/L	70 - 130	20	8260C
IsoPropylbenzene	< 1	21 (107 %R)	22 (112 %R) (4 RPD)	4/30/2021	ug/L	70 - 130	20	8260C
Bromobenzene	< 1	20 (101 %R)	21 (106 %R) (5 RPD)	4/30/2021	ug/L	70 - 130	20	8260C
1,1,2,2-Tetrachloroethane	< 1	19 (97 %R)	20 (100 %R) (3 RPD)	4/30/2021	ug/L	70 - 130	20	8260C
1,2,3-Trichloropropane	< 0.5	19 (94 %R)	20 (98 %R) (4 RPD)	4/30/2021	ug/L	70 - 130	20	8260C
n-Propylbenzene	< 1	21 (106 %R)	22 (112 %R) (5 RPD)	4/30/2021	ug/L	70 - 130	20	8260C
2-Chlorotoluene	< 1	21 (105 %R)	22 (109 %R) (4 RPD)	4/30/2021	ug/L	70 - 130	20	8260C
4-Chlorotoluene	< 1	21 (104 %R)	22 (109 %R) (4 RPD)	4/30/2021	ug/L	70 - 130	20	8260C
1,3,5-Trimethylbenzene	< 1	21 (105 %R)	22 (111 %R) (5 RPD)	4/30/2021	ug/L	70 - 130	20	8260C
tert-Butylbenzene	< 1	21 (106 %R)	22 (111 %R) (5 RPD)	4/30/2021	ug/L	70 - 130	20	8260C
1,2,4-Trimethylbenzene	< 1	21 (106 %R)	22 (111 %R) (5 RPD)	4/30/2021	ug/L	70 - 130	20	8260C
sec-Butylbenzene	< 1	22 (110 %R)	23 (116 %R) (6 RPD)	4/30/2021	ug/L	70 - 130	20	8260C
1,3-Dichlorobenzene	< 1	21 (104 %R)	22 (108 %R) (4 RPD)	4/30/2021	ug/L	70 - 130	20	8260C
p-Isopropyltoluene	< 1	21 (107 %R)	23 (114 %R) (6 RPD)	4/30/2021	ug/L	70 - 130	20	8260C
1,4-Dichlorobenzene	< 1	20 (102 %R)	21 (107 %R) (5 RPD)	4/30/2021	ug/L	70 - 130	20	8260C
1,2-Dichlorobenzene	< 1	20 (102 %R)	21 (107 %R) (4 RPD)	4/30/2021	ug/L	70 - 130	20	8260C
n-Butylbenzene	< 1	21 (107 %R)	22 (112 %R) (5 RPD)	4/30/2021	ug/L	70 - 130	20	8260C
1,2-Dibromo-3-chloropropane	< 2	18 (92 %R)	19 (97 %R) (5 RPD)	4/30/2021	ug/L	70 - 130	20	8260C
1,3,5-Trichlorobenzene	< 1	21 (103 %R)	21 (107 %R) (4 RPD)	4/30/2021	ug/L	70 - 130	20	8260C
1,2,4-Trichlorobenzene	< 1	20 (99 %R)	21 (103 %R) (4 RPD)	4/30/2021	ug/L	70 - 130	20	8260C
Hexachlorobutadiene	< 0.5	19 (97 %R)	20 (102 %R) (4 RPD)	4/30/2021	ug/L	70 - 130	20	8260C
Naphthalene	< 2	19 (96 %R)	20 (100 %R) (4 RPD)	4/30/2021	ug/L	70 - 130	20	8260C
1,2,3-Trichlorobenzene	< 0.5	19 (97 %R)	20 (101 %R) (4 RPD)	4/30/2021	ug/L	70 - 130	20	8260C
4-Bromofluorobenzene (surr)	100 %R	100 %R	100 %R	4/30/2021	% Rec	70 - 130	20	8260C
1,2-Dichlorobenzene-d4 (surr)	97 %R	99 %R	98 %R	4/30/2021	% Rec	70 - 130	20	8260C
Toluene-d8 (surr)	103 %R	102 %R	104 %R	4/30/2021	% Rec	70 - 130	20	8260C

*! Flagged analyte recoveries deviated from the QA/QC limits. Data that impacts sample results are noted on the sample report.



LABORATORY REPORT

EAI ID#: 225398

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Dalton | Groundwater / 1003.20**

Sample ID: MW-34R_20210429

Lab Sample ID: 225398.01
Matrix: aqueous
Date Sampled: 4/29/21
Date Received: 4/29/21
Units: ug/L
Date of Analysis: 4/30/21
Analyst: AM
Method: 8260B SIM
Dilution Factor: 1
1,4-Dioxane < 0.25
4-Bromofluorobenzene (surr) 96 %R
Toluene-d8 (surr) 99 %R



QC REPORT

EAI ID#: **225398**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Batch ID: 637555-38213/A043021DIOX1

Client Designation: **Dalton | Groundwater / 1003.20**

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
1,4-Dioxane	< 0.2	4.9 (98 %R)	5.0 (101 %R) (3 RPD)	4/30/2021	ug/L	70 - 130	20	8260B
4-Bromofluorobenzene (surr)	99 %R	100 %R	100 %R	4/30/2021	% Rec	70 - 130	50	8260B
Toluene-d8 (surr)	100 %R	100 %R	100 %R	4/30/2021	% Rec	70 - 130	50	8260B

*! Flagged analyte recoveries deviated from the QA/QC limits. Data that impacts sample results are noted on the sample report.



LABORATORY REPORT

EAI ID#: 225398

Client: **Sanborn, Head & Associates, Inc. (NH)**
Client Designation: **Dalton | Groundwater / 1003.20**

Sample ID: MW-34R_20210429

Lab Sample ID: 225398.01
Matrix: aqueous
Date Sampled: 4/29/21
Date Received: 4/29/21
Units: ug/L
Date of Extraction/Prep: 4/30/21
Date of Analysis: 4/30/21
Analyst: JMR
Method: 8270D
Dilution Factor: 1

alpha-Terpineol	< 5
Phenol	< 1
2-Chlorophenol	< 1
2,4-Dichlorophenol	< 1
2,4,5-Trichlorophenol	< 1
2,4,6-Trichlorophenol	< 1
Pentachlorophenol	< 5
2-Nitrophenol	< 5
4-Nitrophenol	< 5
2,4-Dinitrophenol	< 10
2-Methylphenol	< 1
3/4-Methylphenol	< 1
2,4-Dimethylphenol	< 5
4-Chloro-3-methylphenol	< 1
4,6-Dinitro-2-methylphenol	< 5
Benzoic Acid	< 50
N-Nitrosodimethylamine	< 1
n-Nitroso-di-n-propylamine	< 0.5
n-Nitrosodiphenylamine	< 1
bis(2-Chloroethyl)ether	< 1
bis(2-chloroisopropyl)ether	< 1
bis(2-Chloroethoxy)methane	< 1
1,3-Dichlorobenzene	< 1
Acetophenone	< 10
1,4-Dichlorobenzene	< 1
1,2-Dichlorobenzene	< 1
1,2,4-Trichlorobenzene	< 1
2-Chloronaphthalene	< 1
4-Chlorophenyl-phenylether	< 1
4-Bromophenyl-phenylether	< 1
Hexachloroethane	< 1
Hexachlorobutadiene	< 1
Hexachlorocyclopentadiene	< 5
Hexachlorobenzene	< 1
4-Chloroaniline	< 1
2,3-Dichloroaniline	< 1
2-Nitroaniline	< 5
3-Nitroaniline	< 5
4-Nitroaniline	< 5
Aniline	< 1
Benzyl alcohol	< 10
Nitrobenzene	< 1
Isophorone	< 1
2,4-Dinitrotoluene	< 2
2,6-Dinitrotoluene	< 2
Benzidine (estimated)	< 5
3,3'-Dichlorobenzidine	< 1



LABORATORY REPORT

EAI ID#: 225398

Client: **Sanborn, Head & Associates, Inc. (NH)**
Client Designation: **Dalton | Groundwater / 1003.20**

Sample ID: MW-34R_20210429

Lab Sample ID: 225398.01
Matrix: aqueous
Date Sampled: 4/29/21
Date Received: 4/29/21
Units: ug/L
Date of Extraction/Prep: 4/30/21
Date of Analysis: 4/30/21
Analyst: JMR
Method: 8270D
Dilution Factor: 1

Pyridine	< 5
Azobenzene	< 1
Carbazole	< 1
Dimethylphthalate	< 1
Diethylphthalate	< 5
Di-n-butylphthalate	< 5
Butylbenzylphthalate	< 5
bis(2-Ethylhexyl)phthalate	< 5
Di-n-octylphthalate	< 5
Dibenzofuran	< 1
Naphthalene	< 0.1
2-Methylnaphthalene	< 0.1
1-Methylnaphthalene	< 0.1
Acenaphthylene	< 0.1
Acenaphthene	< 0.1
Fluorene	< 0.1
Phenanthrene	< 0.1
Anthracene	< 0.1
Fluoranthene	< 0.1
Pyrene	< 0.1
Benzo[a]anthracene	< 0.1
Chrysene	< 0.1
Benzo[b]fluoranthene	< 0.1
Benzo[k]fluoranthene	< 0.1
Benzo[a]pyrene	< 0.1
Indeno[1,2,3-cd]pyrene	< 0.1
Dibenz[a,h]anthracene	< 0.1
Benzo[g,h,i]perylene	< 0.1
n-Decane	< 5
n-Octadecane	< 5
2-Fluorophenol (surr)	36 %R
Phenol-d6 (surr)	25 %R
2,4,6-Tribromophenol (surr)	80 %R
Nitrobenzene-D5 (surr)	64 %R
2-Fluorobiphenyl (surr)	68 %R
p-Terphenyl-D14 (surr)	80 %R



QC REPORT

EAI ID#: 225398

Client: Sanborn, Head & Associates, Inc. (NH)

Batch ID: 637553-65202/A043021ABN1

Client Designation: Dalton | Groundwater / 1003.20

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
alpha-Terpineol	< 5	20 (80 %R)	20 (80 %R) (1 RPD)	4/30/2021	ug/L	40 - 140	20	8270D
Phenol	< 1	15 (29 %R)	15 (29 %R) (0 RPD)	4/30/2021	ug/L	15 - 130	20	8270D
2-Chlorophenol	< 1	32 (64 %R)	33 (66 %R) (2 RPD)	4/30/2021	ug/L	30 - 130	20	8270D
2,4-Dichlorophenol	< 1	37 (73 %R)	36 (72 %R) (2 RPD)	4/30/2021	ug/L	30 - 130	20	8270D
2,4,5-Trichlorophenol	< 1	38 (77 %R)	38 (75 %R) (2 RPD)	4/30/2021	ug/L	30 - 130	20	8270D
2,4,6-Trichlorophenol	< 1	39 (78 %R)	38 (76 %R) (2 RPD)	4/30/2021	ug/L	30 - 130	20	8270D
Pentachlorophenol	< 5	38 (75 %R)	38 (76 %R) (0 RPD)	4/30/2021	ug/L	30 - 130	20	8270D
2-Nitrophenol	< 5	40 (79 %R)	40 (81 %R) (2 RPD)	4/30/2021	ug/L	30 - 130	20	8270D
4-Nitrophenol	< 5	17 (33 %R)	16 (32 %R) (4 RPD)	4/30/2021	ug/L	15 - 130	20	8270D
2,4-Dinitrophenol	< 10	40 (80 %R)	39 (77 %R) (3 RPD)	4/30/2021	ug/L	15 - 130	20	8270D
2-Methylphenol	< 1	31 (61 %R)	31 (61 %R) (0 RPD)	4/30/2021	ug/L	30 - 130	20	8270D
3/4-Methylphenol	< 1	30 (60 %R)	30 (60 %R) (0 RPD)	4/30/2021	ug/L	30 - 130	20	8270D
2,4-Dimethylphenol	< 5	36 (71 %R)	35 (70 %R) (1 RPD)	4/30/2021	ug/L	30 - 130	20	8270D
4-Chloro-3-methylphenol	< 1	37 (74 %R)	36 (73 %R) (2 RPD)	4/30/2021	ug/L	30 - 130	20	8270D
4,6-Dinitro-2-methylphenol	< 5	47 (94 %R)	48 (96 %R) (2 RPD)	4/30/2021	ug/L	30 - 130	20	8270D
Benzoic Acid	< 50	< 50 (26 %R)	< 50 (15 %R) (53 RPD) !	4/30/2021	ug/L	15 - 130	20	8270D
N-Nitrosodimethylamine	< 1	11 (45 %R)	12 (46 %R) (3 RPD)	4/30/2021	ug/L	15 - 140	20	8270D
n-Nitroso-di-n-propylamine	< 0.5	19 (76 %R)	19 (76 %R) (1 RPD)	4/30/2021	ug/L	40 - 140	20	8270D
n-Nitrosodiphenylamine	< 1	21 (83 %R)	21 (84 %R) (1 RPD)	4/30/2021	ug/L	40 - 140	20	8270D
bis(2-Chloroethyl)ether	< 1	17 (67 %R)	17 (69 %R) (3 RPD)	4/30/2021	ug/L	40 - 140	20	8270D
bis(2-chloroisopropyl)ether	< 1	16 (66 %R)	17 (67 %R) (2 RPD)	4/30/2021	ug/L	40 - 140	20	8270D
bis(2-Chloroethoxy)methane	< 1	19 (76 %R)	19 (76 %R) (0 RPD)	4/30/2021	ug/L	40 - 140	20	8270D
1,3-Dichlorobenzene	< 1	15 (59 %R)	16 (62 %R) (6 RPD)	4/30/2021	ug/L	40 - 140	20	8270D
Acetophenone	< 10	18 (73 %R)	18 (74 %R) (1 RPD)	4/30/2021	ug/L	40 - 140	20	8270D
1,4-Dichlorobenzene	< 1	14 (58 %R)	15 (61 %R) (5 RPD)	4/30/2021	ug/L	40 - 140	20	8270D
1,2-Dichlorobenzene	< 1	15 (60 %R)	16 (63 %R) (5 RPD)	4/30/2021	ug/L	40 - 140	20	8270D
1,2,4-Trichlorobenzene	< 1	17 (67 %R)	17 (67 %R) (1 RPD)	4/30/2021	ug/L	40 - 140	20	8270D
2-Chloronaphthalene	< 1	19 (75 %R)	18 (74 %R) (1 RPD)	4/30/2021	ug/L	40 - 140	20	8270D
4-Chlorophenyl-phenylether	< 1	20 (79 %R)	20 (79 %R) (0 RPD)	4/30/2021	ug/L	40 - 140	20	8270D
4-Bromophenyl-phenylether	< 1	21 (82 %R)	21 (83 %R) (1 RPD)	4/30/2021	ug/L	40 - 140	20	8270D
Hexachloroethane	< 1	15 (60 %R)	16 (63 %R) (4 RPD)	4/30/2021	ug/L	40 - 140	20	8270D
Hexachlorobutadiene	< 1	17 (67 %R)	17 (67 %R) (0 RPD)	4/30/2021	ug/L	40 - 140	20	8270D
Hexachlorocyclopentadiene	< 5	14 (58 %R)	14 (55 %R) (5 RPD)	4/30/2021	ug/L	15 - 140	20	8270D
Hexachlorobenzene	< 1	21 (82 %R)	21 (84 %R) (2 RPD)	4/30/2021	ug/L	40 - 140	20	8270D
4-Chloroaniline	< 1	19 (78 %R)	19 (75 %R) (4 RPD)	4/30/2021	ug/L	15 - 140	20	8270D
2,3-Dichloroaniline	< 1	20 (79 %R)	20 (79 %R) (1 RPD)	4/30/2021	ug/L	40 - 140	20	8270D
2-Nitroaniline	< 5	22 (88 %R)	22 (88 %R) (0 RPD)	4/30/2021	ug/L	40 - 140	20	8270D
3-Nitroaniline	< 5	21 (82 %R)	20 (82 %R) (1 RPD)	4/30/2021	ug/L	40 - 140	20	8270D
4-Nitroaniline	< 5	22 (86 %R)	22 (87 %R) (1 RPD)	4/30/2021	ug/L	40 - 140	20	8270D
Aniline	< 1	17 (67 %R)	16 (65 %R) (3 RPD)	4/30/2021	ug/L	40 - 140	20	8270D
Benzyl alcohol	< 10	18 (70 %R)	17 (70 %R) (1 RPD)	4/30/2021	ug/L	40 - 140	20	8270D
Nitrobenzene	< 1	18 (72 %R)	19 (74 %R) (2 RPD)	4/30/2021	ug/L	40 - 140	20	8270D
Isophorone	< 1	20 (80 %R)	20 (80 %R) (0 RPD)	4/30/2021	ug/L	40 - 140	20	8270D
2,4-Dinitrotoluene	< 2	20 (81 %R)	21 (83 %R) (1 RPD)	4/30/2021	ug/L	40 - 140	20	8270D
2,6-Dinitrotoluene	< 2	21 (84 %R)	22 (86 %R) (2 RPD)	4/30/2021	ug/L	40 - 140	20	8270D
Benzidine (estimated)	< 5	13 (53 %R)	15 (61 %R) (14 RPD)	4/30/2021	ug/L	1 - 200	50	8270D



QC REPORT

EAI ID#: **225398**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Batch ID: 637553-65202/A043021ABN1

Client Designation: **Dalton | Groundwater / 1003.20**

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
3,3'-Dichlorobenzidine	< 1	20 (81 %R)	21 (82 %R) (2 RPD)	4/30/2021	ug/L	40 - 140	20	8270D
Pyridine	< 5	13 (51 %R)	12 (49 %R) (3 RPD)	4/30/2021	ug/L	15 - 140	20	8270D
Azobenzene	< 1	21 (86 %R)	22 (87 %R) (1 RPD)	4/30/2021	ug/L	40 - 140	20	8270D
Carbazole	< 1	21 (84 %R)	21 (85 %R) (1 RPD)	4/30/2021	ug/L	40 - 140	20	8270D
Dimethylphthalate	< 1	20 (80 %R)	21 (82 %R) (3 RPD)	4/30/2021	ug/L	40 - 140	20	8270D
Diethylphthalate	< 5	21 (86 %R)	22 (88 %R) (2 RPD)	4/30/2021	ug/L	40 - 140	20	8270D
Di-n-butylphthalate	< 5	23 (93 %R)	24 (94 %R) (2 RPD)	4/30/2021	ug/L	40 - 140	20	8270D
Butylbenzylphthalate	< 5	23 (93 %R)	24 (96 %R) (2 RPD)	4/30/2021	ug/L	40 - 140	20	8270D
bis(2-Ethylhexyl)phthalate	< 5	23 (91 %R)	23 (93 %R) (3 RPD)	4/30/2021	ug/L	40 - 140	20	8270D
Di-n-octylphthalate	< 5	24 (94 %R)	24 (96 %R) (2 RPD)	4/30/2021	ug/L	40 - 140	20	8270D
Dibenzofuran	< 1	19 (77 %R)	19 (77 %R) (1 RPD)	4/30/2021	ug/L	40 - 140	20	8270D
Naphthalene	< 0.1	17 (68 %R)	17 (69 %R) (1 RPD)	4/30/2021	ug/L	40 - 140	20	8270D
2-Methylnaphthalene	< 0.1	18 (71 %R)	17 (70 %R) (1 RPD)	4/30/2021	ug/L	40 - 140	20	8270D
1-Methylnaphthalene	< 0.1	18 (72 %R)	18 (71 %R) (2 RPD)	4/30/2021	ug/L	40 - 140	20	8270D
Acenaphthylene	< 0.1	19 (75 %R)	19 (75 %R) (0 RPD)	4/30/2021	ug/L	40 - 140	20	8270D
Acenaphthene	< 0.1	19 (76 %R)	19 (76 %R) (1 RPD)	4/30/2021	ug/L	40 - 140	20	8270D
Fluorene	< 0.1	19 (76 %R)	19 (77 %R) (0 RPD)	4/30/2021	ug/L	40 - 140	20	8270D
Phenanthrene	< 0.1	19 (77 %R)	20 (79 %R) (3 RPD)	4/30/2021	ug/L	40 - 140	20	8270D
Anthracene	< 0.1	19 (78 %R)	20 (80 %R) (2 RPD)	4/30/2021	ug/L	40 - 140	20	8270D
Fluoranthene	< 0.1	19 (76 %R)	19 (77 %R) (2 RPD)	4/30/2021	ug/L	40 - 140	20	8270D
Pyrene	< 0.1	19 (75 %R)	20 (78 %R) (4 RPD)	4/30/2021	ug/L	40 - 140	20	8270D
Benzo[a]anthracene	< 0.1	19 (78 %R)	20 (79 %R) (2 RPD)	4/30/2021	ug/L	40 - 140	20	8270D
Chrysene	< 0.1	19 (77 %R)	19 (78 %R) (1 RPD)	4/30/2021	ug/L	40 - 140	20	8270D
Benzo[b]fluoranthene	< 0.1	19 (77 %R)	20 (79 %R) (3 RPD)	4/30/2021	ug/L	40 - 140	20	8270D
Benzo[k]fluoranthene	< 0.1	20 (79 %R)	20 (80 %R) (1 RPD)	4/30/2021	ug/L	40 - 140	20	8270D
Benzo[a]pyrene	< 0.1	18 (73 %R)	19 (75 %R) (2 RPD)	4/30/2021	ug/L	40 - 140	20	8270D
Indeno[1,2,3-cd]pyrene	< 0.1	19 (77 %R)	20 (79 %R) (3 RPD)	4/30/2021	ug/L	40 - 140	20	8270D
Dibenz[a,h]anthracene	< 0.1	19 (78 %R)	20 (80 %R) (2 RPD)	4/30/2021	ug/L	40 - 140	20	8270D
Benzo[g,h,i]perylene	< 0.1	19 (76 %R)	19 (78 %R) (2 RPD)	4/30/2021	ug/L	40 - 140	20	8270D
n-Decane	< 5	13 (54 %R)	14 (57 %R) (6 RPD)	4/30/2021	ug/L	40 - 140	20	8270D
n-Octadecane	< 5	22 (89 %R)	22 (89 %R) (1 RPD)	4/30/2021	ug/L	40 - 140	20	8270D
2-Fluorophenol (surr)	43 %R	40 %R	41 %R	4/30/2021	% Rec	15 - 110		8270D
Phenol-d6 (surr)	29 %R	29 %R	29 %R	4/30/2021	% Rec	15 - 110		8270D
2,4,6-Tribromophenol (surr)	85 %R	87 %R	86 %R	4/30/2021	% Rec	15 - 110		8270D
Nitrobenzene-D5 (surr)	80 %R	75 %R	75 %R	4/30/2021	% Rec	30 - 130		8270D
2-Fluorobiphenyl (surr)	79 %R	77 %R	75 %R	4/30/2021	% Rec	30 - 130		8270D
p-Terphenyl-D14 (surr)	82 %R	82 %R	84 %R	4/30/2021	% Rec	30 - 130		8270D

*! Flagged analyte recoveries deviated from the QA/QC limits. Data that impacts sample results are noted on the sample report.



LABORATORY REPORT

EAI ID#: 225398

Client: **Sanborn, Head & Associates, Inc. (NH)**
Client Designation: **Dalton | Groundwater / 1003.20**

Sample ID: MW-34R_20210429

Lab Sample ID: 225398.01
Matrix: aqueous
Date Sampled: 4/29/21
Date Received: 4/29/21
Units: ug/L
Date of Extraction/Prep: 4/30/21
Date of Analysis: 4/30/21
Analyst: AR
Method: 8011/504
Dilution Factor: 1

1,2-Dibromoethane(EDB) < 0.02
Dibromochloropropane (DBCP) < 0.02
1,1,1,2-Tetrachloroethane (surr) 105 %R



QC REPORT

EAI ID#: **225398**

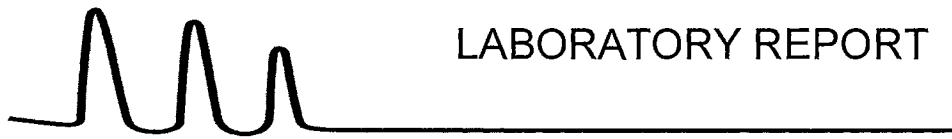
Client: **Sanborn, Head & Associates, Inc. (NH)**

Batch ID: 637553-71512/A043021E5041

Client Designation: **Dalton | Groundwater / 1003.20**

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
1,2-Dibromoethane(EDB)	< 0.02	0.11 (113 %R)	0.10 (105 %R) (7 RPD)	4/30/2021	ug/L	70 - 130	20	8011/504
Dibromochloropropane (DBCP)	< 0.02	0.11 (109 %R)	0.099 (99 %R) (10 RPD)	4/30/2021	ug/L	70 - 130	20	8011/504
1,1,1,2-Tetrachloroethane (surr)	99 %R	102 %R	101 %R	4/30/2021	% Rec	65 - 135	20	8011/504

*! Flagged analyte recoveries deviated from the QA/QC limits. Data that impacts sample results are noted on the sample report.



LABORATORY REPORT

EAI ID#: 225398

Client: **Sanborn, Head & Associates, Inc. (NH)**
 Client Designation: **Dalton | Groundwater / 1003.20**

Sample ID: MW
 -34R_20210429

Lab Sample ID: 225398.01

Matrix: aqueous

Date Sampled: 4/29/21

Date Received: 4/29/21

Sulfate	2.9
Chloride	< 1
Nitrate-N	< 0.5
TKN	< 0.5
COD	< 10
Dissolved Organic Carbon	0.98

Units	Analysis		Method	Analyst
	Date	Time		
mg/L	5/03/21	22:52	300.0	ATA
mg/L	4/30/21	11:46	4500CIE-11	ATA
mg/L	4/30/21	11:46	353.2	ATA
mg/L	5/03/21	13:44	4500N _{ora} C/NH3D	SEL
mg/L	4/29/21	16:30	H8000	JCS
mg/L	5/03/21	16:01	5310C-00	LO



QC REPORT

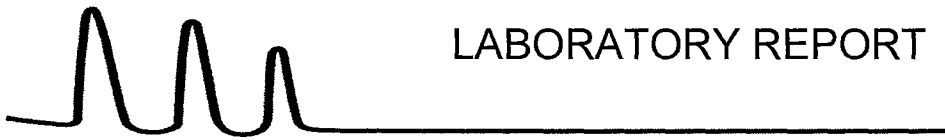
EAI ID#: 225398

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Dalton | Groundwater / 1003.20**

Parameter Name	Blank	LCS	LCSD	Units	Date of Analysis	Limits	RPD	Method
Sulfate	< 1	19 (97 %R)	20 (98 %R) (1 RPD)	mg/L	5/4/21	90 - 110	20	300.0
Chloride	< 1	24 (98 %R)	23 (92 %R) (6 RPD)	mg/L	4/30/21	90 - 110	20	4500CIE-11
Nitrate-N	< 0.5	5.1 (102 %R)	5.1 (102 %R) (0 RPD)	mg/L	4/30/21	90 - 110	20	353.2
TKN	< 0.5	10 (104 %R)	11 (105 %R) (1 RPD)	mg/L	5/3/21	90 - 111	20	4500N _{org} C/NH3D-11
COD	< 10	98 (98 %R)	97 (97 %R) (1 RPD)	mg/L	4/29/21	85 - 115	20	H8000
Dissolved Organic Carbon	< 0.5	10 (101 %R)	10 (103 %R) (1 RPD)	mg/L	5/3/21	90 - 110	20	5310C-00

*! Flagged analyte recoveries deviated from the QA/QC limits. Unless noted, flagged data does not impact the sample data.



LABORATORY REPORT

EAI ID#: **225398**

Client: **Sanborn, Head & Associates, Inc. (NH)**
Client Designation: **Dalton | Groundwater / 1003.20**

Sample ID: MW-34R_20210429

Lab Sample ID: 225398.01

Matrix: aqueous

Date Sampled: 4/29/21

Date Received: 4/29/21

		Analytical Matrix	Units	Date of Analysis	Method	Analyst
Antimony	< 0.001	AqTot	mg/L	4/30/21	200.8	DS
Arsenic	0.00083	AqTot	mg/L	4/30/21	200.8	DS
Barium	0.028	AqTot	mg/L	4/30/21	200.8	DS
Beryllium	< 0.001	AqTot	mg/L	4/30/21	200.8	DS
Cadmium	< 0.001	AqTot	mg/L	4/30/21	200.8	DS
Chromium	< 0.001	AqTot	mg/L	4/30/21	200.8	DS
Copper	< 0.001	AqTot	mg/L	4/30/21	200.8	DS
Iron	0.42	AqTot	mg/L	4/30/21	200.8	DS
Lead	0.0012	AqTot	mg/L	4/30/21	200.8	DS
Manganese	0.015	AqTot	mg/L	4/30/21	200.8	DS
Mercury	< 0.0001	AqTot	mg/L	4/30/21	200.8	DS
Nickel	< 0.001	AqTot	mg/L	4/30/21	200.8	DS
Silver	< 0.001	AqTot	mg/L	4/30/21	200.8	DS
Thallium	< 0.001	AqTot	mg/L	4/30/21	200.8	DS



QC REPORT

EAI ID#: 225398

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Dalton | Groundwater / 1003.20**

Parameter Name	Blank	LCS	LCSD	Units	Date of Analysis	Limits	RPD	Method
Antimony	< 0.001	1.1 (106 %R)	NA	mg/L	4/30/21	85 - 115	20	200.8
Arsenic	< 0.0005	1.1 (106 %R)	NA	mg/L	4/30/21	85 - 115	20	200.8
Barium	< 0.001	1.1 (113 %R)	NA	mg/L	4/30/21	85 - 115	20	200.8
Beryllium	< 0.001	1.1 (106 %R)	NA	mg/L	4/30/21	85 - 115	20	200.8
Cadmium	< 0.001	1.1 (105 %R)	NA	mg/L	4/30/21	85 - 115	20	200.8
Chromium	< 0.001	1.0 (102 %R)	NA	mg/L	4/30/21	85 - 115	20	200.8
Copper	< 0.001	1.1 (109 %R)	NA	mg/L	4/30/21	85 - 115	20	200.8
Iron	< 0.05	11 (100 %R)	NA	mg/L	4/30/21	85 - 115	20	200.8
Lead	< 0.001	1.1 (112 %R)	NA	mg/L	4/30/21	85 - 115	20	200.8
Manganese	< 0.005	1.0 (102 %R)	NA	mg/L	4/30/21	85 - 115	20	200.8
Mercury	< 0.0001	0.0010 (101 %R)	NA	mg/L	4/30/21	85 - 115	20	200.8
Nickel	< 0.001	0.99 (99 %R)	NA	mg/L	4/30/21	85 - 115	20	200.8
Silver	< 0.001	0.010 (104 %R)	NA	mg/L	4/30/21	85 - 115	20	200.8
Thallium	< 0.001	1.1 (112 %R)	NA	mg/L	4/30/21	85 - 115	20	200.8

*! Flagged analyte recoveries deviated from the QA/QC limits. Unless noted, flagged data does not impact the sample data.

Chain-of-Custody Record

For Lab U

225398

Page 1 of 1

Sample ID	Sampling Date/Time *If Composite, Indicate Both Start & Finish Date/Time	Matrix (see below)	Grab/*Composite	Analyses Requested																# of Containers	NOTES MeOH Vial #																	
				VOCs - EPA 8260C	Low Level 1,4-Dioxane (USEPA 8260B-SM)	Low Level EDB/DBCP (504.1)	S/VOCs (EPA 8270D)	COD (SM 5220D); TKN (SM4500Norg/CMH3D)	DOC (6310C)	Chloride, Nitrate, Sulfate (EPA 300.0)	Dissolved Metals List A (EPA 200.8)	Total Metals List A (EPA 200.8)	Dissolved Metals List B (EPA 200.8)	Total Metals List B (EPA 200.8)																								
MW-34R-20210429	4/29/21 0945	GW	G	X	X	X	X	X	X	X							X																					11
		GW	G																																			
		GW	G																																			
		GW	G																																			
		GW	G																																			
		GW	G																																			
		GW	G																																			
		GW	G																																			
		GW	G																																			
		GW	G																																			
Matrix: A-Air; S-Soil; GW-Ground Water; SW-Surface Water; DW-Drinking Water; WW-Waste Water; AQ-Aqueous Preservative: H-HCl; N-HNO3; S-H2SO4; Na-NaOH; M-MeOH; NSO-Na2S2O3				H	Ice	NSO	Ice	S	Ice	Ice	N	N	N	N																								

Project Manager: T. White

Company: Sanborn, Head & Associates, Inc.

Address: 20 Foundry Street

City: Concord State: NH Zip: 03301

Phone: 603-229-1900 Ext.:

Fax: 603-229-1919

E-Mail: twhite@sanbornhead.com

Site Name: Dalton | Groundwater

Project # 1003.20

State: NH

Regulatory Program: NPDES: RGP POTW Stormwater or GWP, Oil Fund, Brownfield or Other:

Quote #: _____ PO#: _____

Date Needed: Standard TAT

Temp: 47 °C
Ice? Yes No

QA/QC Reporting Level
 A **B** C
 or
 Presumptive Certainty

Reporting Options
 Prelims: Yes or No
 If Yes: Fax or PDF

Electronic Options
 No Fax E-Mail PDF Equis

Sampler(s): MTS

Relinquished By: [Signature] Date: 4/29/21 Time: 1230 Received By: [Signature]

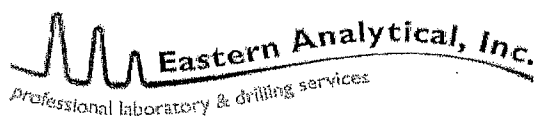
Relinquished By: _____ Date: _____ Time: _____ Received By: _____

Relinquished By: _____ Date: _____ Time: _____ Received By: _____

Metals: Lists Below Samples Field Filtered: YES

A: Fe, Mn
 B: Fe, Mn, As, Sb, Ba, Be, Cd, Cr, Cu, Pb, Hg, Ni, Ag, Tl
 C: _____

Notes: (i.e., Special Detection Limits, Billing Info, If Different)
 Trip blank(s) prepared by EAI.
 Bill GSL.
 *Report 1,4-dioxane to 0.25 ug/l RL
 *Hold Final report until EQUIS EDD ready.
 Field Readings: _____





Eastern Analytical, Inc.

professional laboratory and drilling services

Tim White

Sanborn, Head & Associates, Inc. (NH)

20 Foundry Street

Concord, NH 03301



Subject: Laboratory Report

Eastern Analytical, Inc. ID: 225399

Client Identification: Dalton | PFAS / 1003.20

Date Received: 4/29/2021

Dear Mr. White :

Enclosed please find the report of analysis for the above identified project. As discussed, analyses were subcontracted and are listed as follows:

Analysis: PFAS EPA 537mod (9 Compounds)

Subcontractor Lab: Vista Analytical Laboratory

A complete copy of the report is attached. This report may not be reproduced except in full, without the written approval of the laboratory.

We appreciate this opportunity to be of service and look forward to your continued patronage.

Sincerely,

Lorraine Olashaw, Lab Director

5.13.21

Date

30

of pages (excluding cover letter)



SAMPLE CONDITIONS PAGE

EAI ID#: 225399

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Dalton | PFAS / 1003.20**

Temperature upon receipt (°C): **4.7**

Received on ice or cold packs (Yes/No): **Y**

Acceptable temperature range (°C): 0-6

Lab ID	Sample ID	Date Received	Date/Time Sampled	Sample Matrix	% Dry Weight	Exceptions/Comments (other than thermal preservation)
225399.01	MW-3_20210428	4/29/21	4/28/21 10:05	aqueous		Adheres to Sample Acceptance Policy
225399.02	MW-4_20210428	4/29/21	4/28/21 09:25	aqueous		Adheres to Sample Acceptance Policy
225399.03	MW-5_20210428	4/29/21	4/28/21 14:10	aqueous		Adheres to Sample Acceptance Policy
225399.04	MW-6_20210428	4/29/21	4/28/21 12:15	aqueous		Adheres to Sample Acceptance Policy
225399.05	MW-7_20210428	4/29/21	4/28/21 14:25	aqueous		Adheres to Sample Acceptance Policy
225399.06	MW-12_20210428	4/29/21	4/28/21 13:25	aqueous		Adheres to Sample Acceptance Policy
225399.07	MW-13_20210428	4/29/21	4/28/21 13:10	aqueous		Adheres to Sample Acceptance Policy
225399.08	MW-14_20210428	4/29/21	4/28/21 14:00	aqueous		Adheres to Sample Acceptance Policy
225399.09	MW-34_20210428	4/29/21	4/28/21 08:20	aqueous		Adheres to Sample Acceptance Policy
225399.1	MW-34R_20210429	4/29/21	4/29/21 09:45	aqueous		Adheres to Sample Acceptance Policy
225399.11	FB-01_20210429	4/29/21	4/29/21 09:59	aqueous		Adheres to Sample Acceptance Policy

All results contained in this report relate only to the above listed samples.

Unless otherwise noted:

- Hold times, preservation, container types, and sample conditions adhered to EPA Protocol.
- Solid samples are reported on a dry weight basis, unless otherwise noted. pH/Corrosivity, Flashpoint, Ignitability, Paint Filter, Conductivity and Specific Gravity are always reported on an "as received" basis.
- Analysis of pH, Total Residual Chlorine, Dissolved Oxygen and Sulfite were performed at the laboratory outside of the recommended 15 minute hold time.
- Samples collected by Eastern Analytical, Inc. (EAI) were collected in accordance with approved EPA procedures.



May 12, 2021

Vista Work Order No. 2104311

Ms. Jennifer Laramie
Eastern Analytical, Inc.
25 Chennell Drive
Concord, NH 03301

Dear Ms. Laramie,

Enclosed are the results for the sample set received at Vista Analytical Laboratory on April 30, 2021 under your Project Name '225399 NH 5379'.

Vista Analytical Laboratory is committed to serving you effectively. If you require additional information, please contact me at 916-673-1520 or by email at mmaier@vista-analytical.com.

Thank you for choosing Vista as part of your analytical support team.

Sincerely,

A handwritten signature in black ink that reads "Martha Maier".

Martha Maier
Laboratory Director



Vista Analytical Laboratory certifies that the report herein meets all the requirements set forth by NELAP for those applicable test methods. Results relate only to the samples as received by the laboratory. This report should not be reproduced except in full without the written approval of Vista.

Vista Work Order No. 2104311

Case Narrative

Sample Condition on Receipt:

Eleven aqueous samples were received and stored securely in accordance with Vista standard operating procedures and EPA methodology. The samples were received in good condition and within the recommended temperature requirements.

Analytical Notes:

PFAS Isotope Dilution/LC-MSMS Method Compliant with Table B-15 of DoD QSM 5.3 (Aqueous)

The following samples contained particulate and were centrifuged prior to extraction:

<u>Laboratory ID</u>	<u>Sample Name</u>
2104311-01	MW-3_20210428
2104311-02	MW-4_20210428
2104311-03	MW-5_20210428
2104311-04	MW-6_20210428
2104311-05	MW-7_20210428
2104311-06	MW-12_20210428
2104311-07	MW-13_20210428
2104311-08	MW-14_20210428
2104311-09	MW-34_20210428

The samples were extracted and analyzed for a selected list of PFAS using Isotope Dilution and LC-MS/MS compliant with Table B-15 of DoD QSM 5.3. The results for PFHxS, PFOA and PFOS include both linear and branched isomers. Results for all other analytes include the linear isomers only.

Holding Times

The samples were extracted and analyzed within the hold times.

Quality Control

The Initial Calibration and Continuing Calibration Verifications met the method acceptance criteria.

A Method Blank and Ongoing Precision and Recovery (OPR) sample were extracted and analyzed with the preparation batch. No analytes were detected in the Method Blank above the Reporting Limits (RL). The OPR recoveries were within the method acceptance criteria.

The labeled standard recoveries for all QC and field samples were within the acceptance criteria.

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Case Narrative..... 1

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Qualifiers..... 19

Certifications..... 20

Sample Receipt..... 23

Sample Inventory Report

Vista Sample ID	Client Sample ID	Sampled	Received	Components/Containers
2104311-01	MW-3_20210428	28-Apr-21 10:05	30-Apr-21 09:35	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
2104311-02	MW-4_20210428	28-Apr-21 09:25	30-Apr-21 09:35	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
2104311-03	MW-5_20210428	28-Apr-21 14:10	30-Apr-21 09:35	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
2104311-04	MW-6_20210428	28-Apr-21 12:15	30-Apr-21 09:35	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
2104311-05	MW-7_20210428	28-Apr-21 14:25	30-Apr-21 09:35	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
2104311-06	MW-12_20210428	28-Apr-21 13:25	30-Apr-21 09:35	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
2104311-07	MW-13_20210428	28-Apr-21 13:10	30-Apr-21 09:35	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
2104311-08	MW-14_20210428	28-Apr-21 14:00	30-Apr-21 09:35	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
2104311-09	MW-34_20210428	28-Apr-21 08:20	30-Apr-21 09:35	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
2104311-10	MW-34R_20210429	29-Apr-21 09:45	30-Apr-21 09:35	HDPE Bottle, 125 mL HDPE Bottle, 125 mL
2104311-11	FB-01_20210429	29-Apr-21 09:59	30-Apr-21 09:35	HDPE Bottle, 125 mL HDPE Bottle, 125 mL

ANALYTICAL RESULTS

Sample ID: Method Blank **PFAS Isotope Dilution Table B-15**

Client Data				Laboratory Data			
Name:	Eastern Analytical, Inc.	Matrix:	Aqueous	Lab Sample:	B1E0003-BLK1	Column:	BEH C18
Project:	225399 NH 5379						

Analyte	CAS Number	Conc. (ng/L)	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	ND	4.00		B1E0003	03-May-21	0.125 L	07-May-21 16:57	1
PFPeA	2706-90-3	ND	4.00		B1E0003	03-May-21	0.125 L	07-May-21 16:57	1
PFBS	375-73-5	ND	4.00		B1E0003	03-May-21	0.125 L	07-May-21 16:57	1
PFHxA	307-24-4	ND	4.00		B1E0003	03-May-21	0.125 L	07-May-21 16:57	1
PFHpA	375-85-9	ND	4.00		B1E0003	03-May-21	0.125 L	07-May-21 16:57	1
PFHxS	355-46-4	ND	4.00		B1E0003	03-May-21	0.125 L	07-May-21 16:57	1
PFOA	335-67-1	ND	4.00		B1E0003	03-May-21	0.125 L	07-May-21 16:57	1
PFNA	375-95-1	ND	4.00		B1E0003	03-May-21	0.125 L	07-May-21 16:57	1
PFOS	1763-23-1	ND	4.00		B1E0003	03-May-21	0.125 L	07-May-21 16:57	1
Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	142	50 - 150		B1E0003	03-May-21	0.125 L	07-May-21 16:57	1
13C3-PFPeA	IS	102	50 - 150		B1E0003	03-May-21	0.125 L	07-May-21 16:57	1
13C3-PFBS	IS	111	50 - 150		B1E0003	03-May-21	0.125 L	07-May-21 16:57	1
13C2-PFHxA	IS	99.8	50 - 150		B1E0003	03-May-21	0.125 L	07-May-21 16:57	1
13C4-PFHpA	IS	102	50 - 150		B1E0003	03-May-21	0.125 L	07-May-21 16:57	1
13C3-PFHxS	IS	110	50 - 150		B1E0003	03-May-21	0.125 L	07-May-21 16:57	1
13C5-PFNA	IS	97.1	50 - 150		B1E0003	03-May-21	0.125 L	07-May-21 16:57	1
13C2-PFOA	IS	101	50 - 150		B1E0003	03-May-21	0.125 L	07-May-21 16:57	1
13C8-PFOS	IS	90.6	50 - 150		B1E0003	03-May-21	0.125 L	07-May-21 16:57	1

RL - Reporting limit

Results reported to RL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: OPR						PFAS Isotope Dilution Table B-15					
Client Data					Laboratory Data						
Name:	Eastern Analytical, Inc.		Matrix:	Aqueous	Lab Sample:	B1E0003-BS1	Column:	BEH C18			
Project:	225399 NH 5379										
Analyte	CAS Number	Amt Found (ng/L)	Spike Amt	% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	87.1	80.0	109	73 - 129		B1E0003	03-May-21	0.125 L	07-May-21 17:08	1
PFPeA	2706-90-3	86.6	80.0	108	72 - 129		B1E0003	03-May-21	0.125 L	07-May-21 17:08	1
PFBS	375-73-5	90.2	80.0	113	72 - 130		B1E0003	03-May-21	0.125 L	07-May-21 17:08	1
PFHxA	307-24-4	87.3	80.0	109	72 - 129		B1E0003	03-May-21	0.125 L	07-May-21 17:08	1
PFHpA	375-85-9	86.9	80.0	109	72 - 130		B1E0003	03-May-21	0.125 L	07-May-21 17:08	1
PFHxS	355-46-4	78.9	80.0	98.6	68 - 131		B1E0003	03-May-21	0.125 L	07-May-21 17:08	1
PFOA	335-67-1	85.3	80.0	107	71 - 133		B1E0003	03-May-21	0.125 L	07-May-21 17:08	1
PFNA	375-95-1	86.3	80.0	108	69 - 130		B1E0003	03-May-21	0.125 L	07-May-21 17:08	1
PFOS	1763-23-1	91.8	80.0	115	65 - 140		B1E0003	03-May-21	0.125 L	07-May-21 17:08	1
Labeled Standards		Type		% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA		IS		125	50 - 150		B1E0003	03-May-21	0.125 L	07-May-21 17:08	1
13C3-PFPeA		IS		98.4	50 - 150		B1E0003	03-May-21	0.125 L	07-May-21 17:08	1
13C3-PFBS		IS		99.8	50 - 150		B1E0003	03-May-21	0.125 L	07-May-21 17:08	1
13C2-PFHxA		IS		99.0	50 - 150		B1E0003	03-May-21	0.125 L	07-May-21 17:08	1
13C4-PFHpA		IS		92.9	50 - 150		B1E0003	03-May-21	0.125 L	07-May-21 17:08	1
13C3-PFHxS		IS		110	50 - 150		B1E0003	03-May-21	0.125 L	07-May-21 17:08	1
13C5-PFNA		IS		92.6	50 - 150		B1E0003	03-May-21	0.125 L	07-May-21 17:08	1
13C2-PFOA		IS		97.9	50 - 150		B1E0003	03-May-21	0.125 L	07-May-21 17:08	1
13C8-PFOS		IS		88.3	50 - 150		B1E0003	03-May-21	0.125 L	07-May-21 17:08	1

Sample ID: MW-3_20210428				PFAS Isotope Dilution Table B-15							
Client Data				Laboratory Data							
Name:	Eastern Analytical, Inc.		Matrix:	Aqueous		Lab Sample:	2104311-01		Column:	BEH C18	
Project:	225399 NH 5379		Date Collected:	28-Apr-21 10:05		Date Received:	30-Apr-21 09:35				
Location:	225399										
Analyte	CAS Number	Conc. (ng/L)	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution		
PFBA	375-22-4	ND	4.26		B1E0003	03-May-21	0.117 L	07-May-21 00:25	1		
PFPeA	2706-90-3	ND	4.26		B1E0003	03-May-21	0.117 L	07-May-21 00:25	1		
PFBS	375-73-5	ND	4.26		B1E0003	03-May-21	0.117 L	07-May-21 00:25	1		
PFHxA	307-24-4	ND	4.26		B1E0003	03-May-21	0.117 L	07-May-21 00:25	1		
PFHpA	375-85-9	ND	4.26		B1E0003	03-May-21	0.117 L	07-May-21 00:25	1		
PFHxS	355-46-4	ND	4.26		B1E0003	03-May-21	0.117 L	07-May-21 00:25	1		
PFOA	335-67-1	ND	4.26		B1E0003	03-May-21	0.117 L	07-May-21 00:25	1		
PFNA	375-95-1	ND	4.26		B1E0003	03-May-21	0.117 L	07-May-21 00:25	1		
PFOS	1763-23-1	ND	4.26		B1E0003	03-May-21	0.117 L	07-May-21 00:25	1		
Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution		
13C3-PFBA	IS	117	50 - 150		B1E0003	03-May-21	0.117 L	07-May-21 00:25	1		
13C3-PFPeA	IS	103	50 - 150		B1E0003	03-May-21	0.117 L	07-May-21 00:25	1		
13C3-PFBS	IS	97.8	50 - 150		B1E0003	03-May-21	0.117 L	07-May-21 00:25	1		
13C2-PFHxA	IS	100	50 - 150		B1E0003	03-May-21	0.117 L	07-May-21 00:25	1		
13C4-PFHpA	IS	95.8	50 - 150		B1E0003	03-May-21	0.117 L	07-May-21 00:25	1		
13C3-PFHxS	IS	96.2	50 - 150		B1E0003	03-May-21	0.117 L	07-May-21 00:25	1		
13C5-PFNA	IS	96.4	50 - 150		B1E0003	03-May-21	0.117 L	07-May-21 00:25	1		
13C2-PFOA	IS	101	50 - 150		B1E0003	03-May-21	0.117 L	07-May-21 00:25	1		
13C8-PFOS	IS	105	50 - 150		B1E0003	03-May-21	0.117 L	07-May-21 00:25	1		

RL - Reporting limit

Results reported to RL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: MW-4_20210428				PFAS Isotope Dilution Table B-15							
Client Data				Laboratory Data							
Name:	Eastern Analytical, Inc.		Matrix:	Aqueous		Lab Sample:	2104311-02		Column:	BEH C18	
Project:	225399 NH 5379		Date Collected:	28-Apr-21 09:25		Date Received:	30-Apr-21 09:35				
Location:	225399										
Analyte	CAS Number	Conc. (ng/L)	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution		
PFBA	375-22-4	ND	4.26		B1E0003	03-May-21	0.117 L	07-May-21 00:36	1		
PFPeA	2706-90-3	ND	4.26		B1E0003	03-May-21	0.117 L	07-May-21 00:36	1		
PFBS	375-73-5	ND	4.26		B1E0003	03-May-21	0.117 L	07-May-21 00:36	1		
PFHxA	307-24-4	ND	4.26		B1E0003	03-May-21	0.117 L	07-May-21 00:36	1		
PFHpA	375-85-9	ND	4.26		B1E0003	03-May-21	0.117 L	07-May-21 00:36	1		
PFHxS	355-46-4	ND	4.26		B1E0003	03-May-21	0.117 L	07-May-21 00:36	1		
PFOA	335-67-1	ND	4.26		B1E0003	03-May-21	0.117 L	07-May-21 00:36	1		
PFNA	375-95-1	ND	4.26		B1E0003	03-May-21	0.117 L	07-May-21 00:36	1		
PFOS	1763-23-1	ND	4.26		B1E0003	03-May-21	0.117 L	07-May-21 00:36	1		
Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution		
13C3-PFBA	IS	118	50 - 150		B1E0003	03-May-21	0.117 L	07-May-21 00:36	1		
13C3-PFPeA	IS	111	50 - 150		B1E0003	03-May-21	0.117 L	07-May-21 00:36	1		
13C3-PFBS	IS	105	50 - 150		B1E0003	03-May-21	0.117 L	07-May-21 00:36	1		
13C2-PFHxA	IS	103	50 - 150		B1E0003	03-May-21	0.117 L	07-May-21 00:36	1		
13C4-PFHpA	IS	104	50 - 150		B1E0003	03-May-21	0.117 L	07-May-21 00:36	1		
13C3-PFHxS	IS	101	50 - 150		B1E0003	03-May-21	0.117 L	07-May-21 00:36	1		
13C5-PFNA	IS	108	50 - 150		B1E0003	03-May-21	0.117 L	07-May-21 00:36	1		
13C2-PFOA	IS	102	50 - 150		B1E0003	03-May-21	0.117 L	07-May-21 00:36	1		
13C8-PFOS	IS	112	50 - 150		B1E0003	03-May-21	0.117 L	07-May-21 00:36	1		

RL - Reporting limit

Results reported to RL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: MW-5_20210428

PFAS Isotope Dilution Table B-15

Client Data				Laboratory Data			
Name:	Eastern Analytical, Inc.	Matrix:	Aqueous	Lab Sample:	2104311-03	Column:	BEH C18
Project:	225399 NH 5379	Date Collected:	28-Apr-21 14:10	Date Received:	30-Apr-21 09:35		
Location:	225399						

Analyte	CAS Number	Conc. (ng/L)	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	ND	4.38		B1E0003	03-May-21	0.114 L	07-May-21 00:46	1
PFPeA	2706-90-3	ND	4.38		B1E0003	03-May-21	0.114 L	07-May-21 00:46	1
PFBS	375-73-5	ND	4.38		B1E0003	03-May-21	0.114 L	07-May-21 00:46	1
PFHxA	307-24-4	ND	4.38		B1E0003	03-May-21	0.114 L	07-May-21 00:46	1
PFHpA	375-85-9	ND	4.38		B1E0003	03-May-21	0.114 L	07-May-21 00:46	1
PFHxS	355-46-4	ND	4.38		B1E0003	03-May-21	0.114 L	07-May-21 00:46	1
PFOA	335-67-1	ND	4.38		B1E0003	03-May-21	0.114 L	07-May-21 00:46	1
PFNA	375-95-1	ND	4.38		B1E0003	03-May-21	0.114 L	07-May-21 00:46	1
PFOS	1763-23-1	ND	4.38		B1E0003	03-May-21	0.114 L	07-May-21 00:46	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	110	50 - 150		B1E0003	03-May-21	0.114 L	07-May-21 00:46	1
13C3-PFPeA	IS	98.6	50 - 150		B1E0003	03-May-21	0.114 L	07-May-21 00:46	1
13C3-PFBS	IS	95.9	50 - 150		B1E0003	03-May-21	0.114 L	07-May-21 00:46	1
13C2-PFHxA	IS	94.9	50 - 150		B1E0003	03-May-21	0.114 L	07-May-21 00:46	1
13C4-PFHpA	IS	96.9	50 - 150		B1E0003	03-May-21	0.114 L	07-May-21 00:46	1
13C3-PFHxS	IS	99.3	50 - 150		B1E0003	03-May-21	0.114 L	07-May-21 00:46	1
13C5-PFNA	IS	98.1	50 - 150		B1E0003	03-May-21	0.114 L	07-May-21 00:46	1
13C2-PFOA	IS	98.5	50 - 150		B1E0003	03-May-21	0.114 L	07-May-21 00:46	1
13C8-PFOS	IS	99.7	50 - 150		B1E0003	03-May-21	0.114 L	07-May-21 00:46	1

RL - Reporting limit

Results reported to RL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: MW-6_20210428					PFAS Isotope Dilution Table B-15						
Client Data				Laboratory Data							
Name:	Eastern Analytical, Inc.		Matrix:	Aqueous		Lab Sample:	2104311-04		Column:	BEH C18	
Project:	225399 NH 5379		Date Collected:	28-Apr-21 12:15		Date Received:	30-Apr-21 09:35				
Location:	225399										
Analyte	CAS Number	Conc. (ng/L)	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution		
PFBA	375-22-4	ND	4.35		B1E0003	03-May-21	0.115 L	07-May-21 00:56	1		
PFPeA	2706-90-3	ND	4.35		B1E0003	03-May-21	0.115 L	07-May-21 00:56	1		
PFBS	375-73-5	ND	4.35		B1E0003	03-May-21	0.115 L	07-May-21 00:56	1		
PFHxA	307-24-4	ND	4.35		B1E0003	03-May-21	0.115 L	07-May-21 00:56	1		
PFHpA	375-85-9	ND	4.35		B1E0003	03-May-21	0.115 L	07-May-21 00:56	1		
PFHxS	355-46-4	ND	4.35		B1E0003	03-May-21	0.115 L	07-May-21 00:56	1		
PFOA	335-67-1	ND	4.35		B1E0003	03-May-21	0.115 L	07-May-21 00:56	1		
PFNA	375-95-1	ND	4.35		B1E0003	03-May-21	0.115 L	07-May-21 00:56	1		
PFOS	1763-23-1	ND	4.35		B1E0003	03-May-21	0.115 L	07-May-21 00:56	1		
Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution		
13C3-PFBA	IS	116	50 - 150		B1E0003	03-May-21	0.115 L	07-May-21 00:56	1		
13C3-PFPeA	IS	105	50 - 150		B1E0003	03-May-21	0.115 L	07-May-21 00:56	1		
13C3-PFBS	IS	97.0	50 - 150		B1E0003	03-May-21	0.115 L	07-May-21 00:56	1		
13C2-PFHxA	IS	101	50 - 150		B1E0003	03-May-21	0.115 L	07-May-21 00:56	1		
13C4-PFHpA	IS	103	50 - 150		B1E0003	03-May-21	0.115 L	07-May-21 00:56	1		
13C3-PFHxS	IS	102	50 - 150		B1E0003	03-May-21	0.115 L	07-May-21 00:56	1		
13C5-PFNA	IS	102	50 - 150		B1E0003	03-May-21	0.115 L	07-May-21 00:56	1		
13C2-PFOA	IS	104	50 - 150		B1E0003	03-May-21	0.115 L	07-May-21 00:56	1		
13C8-PFOS	IS	106	50 - 150		B1E0003	03-May-21	0.115 L	07-May-21 00:56	1		

RL - Reporting limit

Results reported to RL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: MW-7_20210428					PFAS Isotope Dilution Table B-15						
Client Data				Laboratory Data							
Name:	Eastern Analytical, Inc.		Matrix:	Aqueous		Lab Sample:	2104311-05		Column:	BEH C18	
Project:	225399 NH 5379		Date Collected:	28-Apr-21 14:25		Date Received:	30-Apr-21 09:35				
Location:	225399										
Analyte	CAS Number	Conc. (ng/L)	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution		
PFBA	375-22-4	ND	4.39		B1E0003	03-May-21	0.114 L	06-May-21 01:20	1		
PFPeA	2706-90-3	ND	4.39		B1E0003	03-May-21	0.114 L	06-May-21 01:20	1		
PFBS	375-73-5	ND	4.39		B1E0003	03-May-21	0.114 L	06-May-21 01:20	1		
PFHxA	307-24-4	ND	4.39		B1E0003	03-May-21	0.114 L	06-May-21 01:20	1		
PFHpA	375-85-9	ND	4.39		B1E0003	03-May-21	0.114 L	06-May-21 01:20	1		
PFHxS	355-46-4	ND	4.39		B1E0003	03-May-21	0.114 L	06-May-21 01:20	1		
PFOA	335-67-1	ND	4.39		B1E0003	03-May-21	0.114 L	06-May-21 01:20	1		
PFNA	375-95-1	ND	4.39		B1E0003	03-May-21	0.114 L	06-May-21 01:20	1		
PFOS	1763-23-1	ND	4.39		B1E0003	03-May-21	0.114 L	06-May-21 01:20	1		
Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution		
13C3-PFBA	IS	142	50 - 150		B1E0003	03-May-21	0.114 L	06-May-21 01:20	1		
13C3-PFPeA	IS	88.1	50 - 150		B1E0003	03-May-21	0.114 L	06-May-21 01:20	1		
13C3-PFBS	IS	99.8	50 - 150		B1E0003	03-May-21	0.114 L	06-May-21 01:20	1		
13C2-PFHxA	IS	89.7	50 - 150		B1E0003	03-May-21	0.114 L	06-May-21 01:20	1		
13C4-PFHpA	IS	83.9	50 - 150		B1E0003	03-May-21	0.114 L	06-May-21 01:20	1		
13C3-PFHxS	IS	92.6	50 - 150		B1E0003	03-May-21	0.114 L	06-May-21 01:20	1		
13C5-PFNA	IS	99.5	50 - 150		B1E0003	03-May-21	0.114 L	06-May-21 01:20	1		
13C2-PFOA	IS	92.3	50 - 150		B1E0003	03-May-21	0.114 L	06-May-21 01:20	1		
13C8-PFOS	IS	98.3	50 - 150		B1E0003	03-May-21	0.114 L	06-May-21 01:20	1		

RL - Reporting limit

Results reported to RL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: MW-12_20210428					PFAS Isotope Dilution Table B-15					
Client Data				Laboratory Data						
Name:	Eastern Analytical, Inc.		Matrix:	Aqueous	Lab Sample:	2104311-06		Column:	BEH C18	
Project:	225399 NH 5379		Date Collected:	28-Apr-21 13:25	Date Received:	30-Apr-21 09:35				
Location:	225399									
Analyte	CAS Number	Conc. (ng/L)	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
PFBA	375-22-4	ND	4.31		B1E0003	03-May-21	0.116 L	07-May-21 01:07	1	
PFPeA	2706-90-3	ND	4.31		B1E0003	03-May-21	0.116 L	07-May-21 01:07	1	
PFBS	375-73-5	ND	4.31		B1E0003	03-May-21	0.116 L	07-May-21 01:07	1	
PFHxA	307-24-4	ND	4.31		B1E0003	03-May-21	0.116 L	07-May-21 01:07	1	
PFHpA	375-85-9	ND	4.31		B1E0003	03-May-21	0.116 L	07-May-21 01:07	1	
PFHxS	355-46-4	ND	4.31		B1E0003	03-May-21	0.116 L	07-May-21 01:07	1	
PFOA	335-67-1	ND	4.31		B1E0003	03-May-21	0.116 L	07-May-21 01:07	1	
PFNA	375-95-1	ND	4.31		B1E0003	03-May-21	0.116 L	07-May-21 01:07	1	
PFOS	1763-23-1	ND	4.31		B1E0003	03-May-21	0.116 L	07-May-21 01:07	1	
Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
13C3-PFBA	IS	113	50 - 150		B1E0003	03-May-21	0.116 L	07-May-21 01:07	1	
13C3-PFPeA	IS	100	50 - 150		B1E0003	03-May-21	0.116 L	07-May-21 01:07	1	
13C3-PFBS	IS	97.9	50 - 150		B1E0003	03-May-21	0.116 L	07-May-21 01:07	1	
13C2-PFHxA	IS	102	50 - 150		B1E0003	03-May-21	0.116 L	07-May-21 01:07	1	
13C4-PFHpA	IS	100	50 - 150		B1E0003	03-May-21	0.116 L	07-May-21 01:07	1	
13C3-PFHxS	IS	103	50 - 150		B1E0003	03-May-21	0.116 L	07-May-21 01:07	1	
13C5-PFNA	IS	100	50 - 150		B1E0003	03-May-21	0.116 L	07-May-21 01:07	1	
13C2-PFOA	IS	100	50 - 150		B1E0003	03-May-21	0.116 L	07-May-21 01:07	1	
13C8-PFOS	IS	106	50 - 150		B1E0003	03-May-21	0.116 L	07-May-21 01:07	1	

RL - Reporting limit

Results reported to RL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: MW-13_20210428					PFAS Isotope Dilution Table B-15					
Client Data				Laboratory Data						
Name:	Eastern Analytical, Inc.		Matrix:	Aqueous	Lab Sample:	2104311-07		Column:	BEH C18	
Project:	225399 NH 5379		Date Collected:	28-Apr-21 13:10	Date Received:	30-Apr-21 09:35				
Location:	225399									
Analyte	CAS Number	Conc. (ng/L)	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
PFBA	375-22-4	ND	4.26		B1E0003	03-May-21	0.117 L	07-May-21 01:48	1	
PFPeA	2706-90-3	ND	4.26		B1E0003	03-May-21	0.117 L	07-May-21 01:48	1	
PFBS	375-73-5	ND	4.26		B1E0003	03-May-21	0.117 L	07-May-21 01:48	1	
PFHxA	307-24-4	ND	4.26		B1E0003	03-May-21	0.117 L	07-May-21 01:48	1	
PFHpA	375-85-9	ND	4.26		B1E0003	03-May-21	0.117 L	07-May-21 01:48	1	
PFHxS	355-46-4	ND	4.26		B1E0003	03-May-21	0.117 L	07-May-21 01:48	1	
PFOA	335-67-1	ND	4.26		B1E0003	03-May-21	0.117 L	07-May-21 01:48	1	
PFNA	375-95-1	ND	4.26		B1E0003	03-May-21	0.117 L	07-May-21 01:48	1	
PFOS	1763-23-1	ND	4.26		B1E0003	03-May-21	0.117 L	07-May-21 01:48	1	
Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
13C3-PFBA	IS	123	50 - 150		B1E0003	03-May-21	0.117 L	07-May-21 01:48	1	
13C3-PFPeA	IS	106	50 - 150		B1E0003	03-May-21	0.117 L	07-May-21 01:48	1	
13C3-PFBS	IS	104	50 - 150		B1E0003	03-May-21	0.117 L	07-May-21 01:48	1	
13C2-PFHxA	IS	104	50 - 150		B1E0003	03-May-21	0.117 L	07-May-21 01:48	1	
13C4-PFHpA	IS	107	50 - 150		B1E0003	03-May-21	0.117 L	07-May-21 01:48	1	
13C3-PFHxS	IS	101	50 - 150		B1E0003	03-May-21	0.117 L	07-May-21 01:48	1	
13C5-PFNA	IS	108	50 - 150		B1E0003	03-May-21	0.117 L	07-May-21 01:48	1	
13C2-PFOA	IS	114	50 - 150		B1E0003	03-May-21	0.117 L	07-May-21 01:48	1	
13C8-PFOS	IS	111	50 - 150		B1E0003	03-May-21	0.117 L	07-May-21 01:48	1	

RL - Reporting limit

Results reported to RL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: MW-14_20210428				PFAS Isotope Dilution Table B-15						
Client Data				Laboratory Data						
Name:	Eastern Analytical, Inc.	Matrix:	Aqueous	Lab Sample:	2104311-08	Column:	BEH C18			
Project:	225399 NH 5379	Date Collected:	28-Apr-21 14:00	Date Received:	30-Apr-21 09:35					
Location:	225399									
Analyte	CAS Number	Conc. (ng/L)	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
PFBA	375-22-4	ND	4.45		B1E0003	03-May-21	0.112 L	07-May-21 01:59	1	
PFPeA	2706-90-3	ND	4.45		B1E0003	03-May-21	0.112 L	07-May-21 01:59	1	
PFBS	375-73-5	ND	4.45		B1E0003	03-May-21	0.112 L	07-May-21 01:59	1	
PFHxA	307-24-4	ND	4.45		B1E0003	03-May-21	0.112 L	07-May-21 01:59	1	
PFHpA	375-85-9	ND	4.45		B1E0003	03-May-21	0.112 L	07-May-21 01:59	1	
PFHxS	355-46-4	ND	4.45		B1E0003	03-May-21	0.112 L	07-May-21 01:59	1	
PFOA	335-67-1	ND	4.45		B1E0003	03-May-21	0.112 L	07-May-21 01:59	1	
PFNA	375-95-1	ND	4.45		B1E0003	03-May-21	0.112 L	07-May-21 01:59	1	
PFOS	1763-23-1	ND	4.45		B1E0003	03-May-21	0.112 L	07-May-21 01:59	1	
Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
13C3-PFBA	IS	113	50 - 150		B1E0003	03-May-21	0.112 L	07-May-21 01:59	1	
13C3-PFPeA	IS	104	50 - 150		B1E0003	03-May-21	0.112 L	07-May-21 01:59	1	
13C3-PFBS	IS	94.7	50 - 150		B1E0003	03-May-21	0.112 L	07-May-21 01:59	1	
13C2-PFHxA	IS	99.1	50 - 150		B1E0003	03-May-21	0.112 L	07-May-21 01:59	1	
13C4-PFHpA	IS	101	50 - 150		B1E0003	03-May-21	0.112 L	07-May-21 01:59	1	
13C3-PFHxS	IS	95.7	50 - 150		B1E0003	03-May-21	0.112 L	07-May-21 01:59	1	
13C5-PFNA	IS	95.0	50 - 150		B1E0003	03-May-21	0.112 L	07-May-21 01:59	1	
13C2-PFOA	IS	99.3	50 - 150		B1E0003	03-May-21	0.112 L	07-May-21 01:59	1	
13C8-PFOS	IS	100	50 - 150		B1E0003	03-May-21	0.112 L	07-May-21 01:59	1	

RL - Reporting limit

Results reported to RL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: MW-34_20210428

PFAS Isotope Dilution Table B-15

Client Data				Laboratory Data			
Name:	Eastern Analytical, Inc.	Matrix:	Aqueous	Lab Sample:	2104311-09	Column:	BEH C18
Project:	225399 NH 5379	Date Collected:	28-Apr-21 08:20	Date Received:	30-Apr-21 09:35		
Location:	225399						

Analyte	CAS Number	Conc. (ng/L)	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	ND	4.28		B1E0003	03-May-21	0.117 L	07-May-21 02:09	1
PFPeA	2706-90-3	ND	4.28		B1E0003	03-May-21	0.117 L	07-May-21 02:09	1
PFBS	375-73-5	ND	4.28		B1E0003	03-May-21	0.117 L	07-May-21 02:09	1
PFHxA	307-24-4	ND	4.28		B1E0003	03-May-21	0.117 L	07-May-21 02:09	1
PFHpA	375-85-9	ND	4.28		B1E0003	03-May-21	0.117 L	07-May-21 02:09	1
PFHxS	355-46-4	ND	4.28		B1E0003	03-May-21	0.117 L	07-May-21 02:09	1
PFOA	335-67-1	ND	4.28		B1E0003	03-May-21	0.117 L	07-May-21 02:09	1
PFNA	375-95-1	ND	4.28		B1E0003	03-May-21	0.117 L	07-May-21 02:09	1
PFOS	1763-23-1	ND	4.28		B1E0003	03-May-21	0.117 L	07-May-21 02:09	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	115	50 - 150		B1E0003	03-May-21	0.117 L	07-May-21 02:09	1
13C3-PFPeA	IS	101	50 - 150		B1E0003	03-May-21	0.117 L	07-May-21 02:09	1
13C3-PFBS	IS	99.6	50 - 150		B1E0003	03-May-21	0.117 L	07-May-21 02:09	1
13C2-PFHxA	IS	101	50 - 150		B1E0003	03-May-21	0.117 L	07-May-21 02:09	1
13C4-PFHpA	IS	98.1	50 - 150		B1E0003	03-May-21	0.117 L	07-May-21 02:09	1
13C3-PFHxS	IS	102	50 - 150		B1E0003	03-May-21	0.117 L	07-May-21 02:09	1
13C5-PFNA	IS	98.9	50 - 150		B1E0003	03-May-21	0.117 L	07-May-21 02:09	1
13C2-PFOA	IS	99.0	50 - 150		B1E0003	03-May-21	0.117 L	07-May-21 02:09	1
13C8-PFOS	IS	105	50 - 150		B1E0003	03-May-21	0.117 L	07-May-21 02:09	1

RL - Reporting limit

Results reported to RL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: MW-34R_20210429					PFAS Isotope Dilution Table B-15					
Client Data				Laboratory Data						
Name:	Eastern Analytical, Inc.	Matrix:	Aqueous	Lab Sample:	2104311-10	Column:	BEH C18			
Project:	225399 NH 5379	Date Collected:	29-Apr-21 09:45	Date Received:	30-Apr-21 09:35					
Location:	225399									
Analyte	CAS Number	Conc. (ng/L)	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
PFBA	375-22-4	ND	4.25		B1E0003	03-May-21	0.118 L	07-May-21 02:19	1	
PFPeA	2706-90-3	ND	4.25		B1E0003	03-May-21	0.118 L	07-May-21 02:19	1	
PFBS	375-73-5	ND	4.25		B1E0003	03-May-21	0.118 L	07-May-21 02:19	1	
PFHxA	307-24-4	ND	4.25		B1E0003	03-May-21	0.118 L	07-May-21 02:19	1	
PFHpA	375-85-9	ND	4.25		B1E0003	03-May-21	0.118 L	07-May-21 02:19	1	
PFHxS	355-46-4	ND	4.25		B1E0003	03-May-21	0.118 L	07-May-21 02:19	1	
PFOA	335-67-1	ND	4.25		B1E0003	03-May-21	0.118 L	07-May-21 02:19	1	
PFNA	375-95-1	ND	4.25		B1E0003	03-May-21	0.118 L	07-May-21 02:19	1	
PFOS	1763-23-1	ND	4.25		B1E0003	03-May-21	0.118 L	07-May-21 02:19	1	
Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
13C3-PFBA	IS	120	50 - 150		B1E0003	03-May-21	0.118 L	07-May-21 02:19	1	
13C3-PFPeA	IS	106	50 - 150		B1E0003	03-May-21	0.118 L	07-May-21 02:19	1	
13C3-PFBS	IS	97.2	50 - 150		B1E0003	03-May-21	0.118 L	07-May-21 02:19	1	
13C2-PFHxA	IS	105	50 - 150		B1E0003	03-May-21	0.118 L	07-May-21 02:19	1	
13C4-PFHpA	IS	102	50 - 150		B1E0003	03-May-21	0.118 L	07-May-21 02:19	1	
13C3-PFHxS	IS	104	50 - 150		B1E0003	03-May-21	0.118 L	07-May-21 02:19	1	
13C5-PFNA	IS	108	50 - 150		B1E0003	03-May-21	0.118 L	07-May-21 02:19	1	
13C2-PFOA	IS	106	50 - 150		B1E0003	03-May-21	0.118 L	07-May-21 02:19	1	
13C8-PFOS	IS	115	50 - 150		B1E0003	03-May-21	0.118 L	07-May-21 02:19	1	

RL - Reporting limit

Results reported to RL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: FB-01_20210429 **PFAS Isotope Dilution Table B-15**

Client Data				Laboratory Data			
Name:	Eastern Analytical, Inc.	Matrix:	Aqueous	Lab Sample:	2104311-11	Column:	BEH C18
Project:	225399 NH 5379	Date Collected:	29-Apr-21 09:59	Date Received:	30-Apr-21 09:35		
Location:	225399						

Analyte	CAS Number	Conc. (ng/L)	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	ND	4.27		B1E0003	03-May-21	0.117 L	07-May-21 02:30	1
PFPeA	2706-90-3	ND	4.27		B1E0003	03-May-21	0.117 L	07-May-21 02:30	1
PFBS	375-73-5	ND	4.27		B1E0003	03-May-21	0.117 L	07-May-21 02:30	1
PFHxA	307-24-4	ND	4.27		B1E0003	03-May-21	0.117 L	07-May-21 02:30	1
PFHpA	375-85-9	ND	4.27		B1E0003	03-May-21	0.117 L	07-May-21 02:30	1
PFHxS	355-46-4	ND	4.27		B1E0003	03-May-21	0.117 L	07-May-21 02:30	1
PFOA	335-67-1	ND	4.27		B1E0003	03-May-21	0.117 L	07-May-21 02:30	1
PFNA	375-95-1	ND	4.27		B1E0003	03-May-21	0.117 L	07-May-21 02:30	1
PFOS	1763-23-1	ND	4.27		B1E0003	03-May-21	0.117 L	07-May-21 02:30	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	127	50 - 150		B1E0003	03-May-21	0.117 L	07-May-21 02:30	1
13C3-PFPeA	IS	111	50 - 150		B1E0003	03-May-21	0.117 L	07-May-21 02:30	1
13C3-PFBS	IS	113	50 - 150		B1E0003	03-May-21	0.117 L	07-May-21 02:30	1
13C2-PFHxA	IS	116	50 - 150		B1E0003	03-May-21	0.117 L	07-May-21 02:30	1
13C4-PFHpA	IS	110	50 - 150		B1E0003	03-May-21	0.117 L	07-May-21 02:30	1
13C3-PFHxS	IS	107	50 - 150		B1E0003	03-May-21	0.117 L	07-May-21 02:30	1
13C5-PFNA	IS	110	50 - 150		B1E0003	03-May-21	0.117 L	07-May-21 02:30	1
13C2-PFOA	IS	111	50 - 150		B1E0003	03-May-21	0.117 L	07-May-21 02:30	1
13C8-PFOS	IS	118	50 - 150		B1E0003	03-May-21	0.117 L	07-May-21 02:30	1

RL - Reporting limit

Results reported to RL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

B	This compound was also detected in the method blank
Conc.	Concentration
CRS	Cleanup Recovery Standard
D	Dilution
DL	Detection Limit
E	The associated compound concentration exceeded the calibration range of the instrument
H	Recovery and/or RPD was outside laboratory acceptance limits
I	Chemical Interference
IS	Internal Standard
J	The amount detected is below the Reporting Limit/LOQ
LOD	Limit of Detection
LOQ	Limit of Quantitation
M	Estimated Maximum Possible Concentration (CA Region 2 projects only)
MDL	Method Detection Limit
NA	Not applicable
ND	Not Detected
OPR	Ongoing Precision and Recovery sample
P	The reported concentration may include contribution from chlorinated diphenyl ether(s).
Q	The ion transition ratio is outside of the acceptance criteria.
RL	Reporting Limit
RL	For 537.1, the reported RLs are the MRLs.
TEQ	Toxic Equivalency, sum of the toxic equivalency factors (TEF) multiplied by the sample concentrations.
TEQMax	TEQ calculation that uses the detection limit as the concentration for non-detects
TEQMin	TEQ calculation that uses zero as the concentration for non-detects
TEQRisk	TEQ calculation that uses ½ the detection limit as the concentration for non-detects
U	Not Detected (specific projects only)
*	See Cover Letter

Unless otherwise noted, solid sample results are reported in dry weight. Tissue samples are reported in wet weight.

Vista Analytical Laboratory Certifications

Accrediting Authority	Certificate Number
Alaska Department of Environmental Conservation	17-013
Arkansas Department of Environmental Quality	21-023-0
California Department of Health – ELAP	2892
DoD ELAP - A2LA Accredited - ISO/IEC 17025:2005	3091.01
Florida Department of Health	E87777-26
Hawaii Department of Health	N/A
Louisiana Department of Environmental Quality	01977
Maine Department of Health	2020018
Massachusetts Department of Environmental Protection	M-CA413
Michigan Department of Environmental Quality	9932
Minnesota Department of Health	1980678
New Hampshire Environmental Accreditation Program	207720
New Jersey Department of Environmental Protection	CA003
New York Department of Health	11411
Ohio Environmental Protection Agency	87778
Oregon Laboratory Accreditation Program	4042-016
Pennsylvania Department of Environmental Protection	017
Texas Commission on Environmental Quality	T104704189-21-12
Vermont Department of Health	VT-4042
Virginia Department of General Services	10769
Washington Department of Ecology	C584
Wisconsin Department of Natural Resources	998036160

Current certificates and lists of licensed parameters are located in the Quality Assurance office and are available upon request.

NELAP Accredited Test Methods

MATRIX: Air	
Description of Test	Method
Determination of Polychlorinated p- Dioxins & Polychlorinated Dibenzofurans	EPA 23
Polychlorinated Dibenzodioxins in Ambient Air by GC/HRMS	EPA TO-9A

MATRIX: Biological Tissue	
Description of Test	Method
Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS	EPA 1613B
Brominated Diphenyl Ethers by HRGC/HRMS	EPA 1614A
Chlorinated Biphenyl Congeners in Water, Soil, Sediment, and Tissue by GC/HRMS	EPA 1668A/C
Pesticides in Water, Soil, Sediment, Biosolids, and Tissue by HRGC/HRMS	EPA 1699
Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS	EPA 537
Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans by GC/HRMS	EPA 8280A/B
Polychlorinated Dibenzodioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) by GC/HRMS	EPA 8290/8290A

MATRIX: Drinking Water	
Description of Test	Method
Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS	EPA 1613/1613B
Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS	EPA 537
Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS	EPA 537.1
Determination of Per- and Polyfluoroalkyl Substances in Drinking Water by Isotope Dilution Anion Exchange Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry	EPA 533
Perfluorooctanesulfonate (PFOS) and Perfluorooctanoate (PFOA) - Method for Unfiltered Samples Using Solid Phase Extraction and Liquid Chromatography/Mass Spectrometry	ISO 25101 2009

MATRIX: Non-Potable Water	
Description of Test	Method
Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS	EPA 1613B
Brominated Diphenyl Ethers by HRGC/HRMS	EPA 1614A
Chlorinated Biphenyl Congeners in Water, Soil, Sediment, and Tissue by GC/HRMS	EPA 1668A/C
Pesticides in Water, Soil, Sediment, Biosolids, and Tissue by HRGC/HRMS	EPA 1699
Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS	EPA 537
Dioxin by GC/HRMS	EPA 613
Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans by GC/HRMS	EPA 8280A/B
Polychlorinated Dibenzodioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) by GC/HRMS	EPA 8290/8290A

MATRIX: Solids	
Description of Test	Method
Tetra-Octa Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS	EPA 1613
Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS	EPA 1613B
Brominated Diphenyl Ethers by HRGC/HRMS	EPA 1614A
Chlorinated Biphenyl Congeners in Water, Soil, Sediment, and Tissue by GC/HRMS	EPA 1668A/C
Pesticides in Water, Soil, Sediment, Biosolids, and Tissue by HRGC/HRMS	EPA 1699
Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS	EPA 537
Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans by GC/HRMS	EPA 8280A/B
Polychlorinated Dibenzodioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) by GC/HRMS	EPA 8290/8290A

CHAIN-OF-CUSTODY RECORD

EAI ID# 225399

Page 1

Sample ID	Date Sampled	Matrix	Parameters	Sample Notes
MW-3_20210428	4/28/2021 10:05	aqueous	Subcontract - Perfluorinated Compounds EPA Method 537mod (9 Compounds)	2104311 4.3°C
MW-4_20210428	4/28/2021 09:25	aqueous	Subcontract - Perfluorinated Compounds EPA Method 537mod (9 Compounds)	
MW-5_20210428	4/28/2021 14:10	aqueous	Subcontract - Perfluorinated Compounds EPA Method 537mod (9 Compounds)	
MW-6_20210428	4/28/2021 12:15	aqueous	Subcontract - Perfluorinated Compounds EPA Method 537mod (9 Compounds)	

EAI ID# 225399

Project State: NH

Project ID: 5379

Company Vista Analytical Laboratory

Address 1104 Windfield Way

Address El Dorado Hills, CA 95762

Account #

Phone # (916) 673-1520

Results Needed: Preferred Date: Standard

RUSH Due Date: _____

QC Deliverables

A A+ B B+ C MA MCP

Notes about project:

Email login confirmation, pdf of results and invoice to customerservice@easternanalytical.com.

PFAS by Method 537 modified with Isotope Dilution. NHDES-9 Compound List. Report Sulfonic Acids.

PO #: 54843

EAI ID# 225399

Data Deliverable (circle)

Excel NH EMD **SHIF** EQUIS ME EGAD **EDD**

Call prior to analyzing, if RUSH charges will be applied.

Samples Collected by:

[Signature] 4/29/21 16:00 CPS

Relinquished by Date/Time Received by

received via email 04/30/21 *[Signature]*

Relinquished by Date/Time Received by

Eastern Analytical, Inc. 25 Chenell Dr. Concord, NH 03301

Phone: (603) 228-0525

1-800-287-0525

customerservice@easternanalytical.com

As a subcontract lab to EAI, you will defend, indemnify and hold Eastern Analytical, Inc., its officers, employees, and agents harmless from and against any and all liability, loss, expense or claims for injury or damages arising out of the performance against this chain of custody but only in proportion to and to the extent such liability, loss, expense, or claims for injury or damages are caused by or result from the negligent or intentional acts or omissions of you as a subcontract lab, your officers, agents or employees

CHAIN-OF-CUSTODY RECORD

EAI ID# **225399**

Page 2

Sample ID	Date Sampled	Matrix	aParameters	Sample Notes
MW-7_20210428	4/28/2021 14:25	aqueous	Subcontract - Perfluorinated Compounds EPA Method 537mod (9 Compounds)	2104311 4.3°C
MW-12_20210428	4/28/2021 13:25	aqueous	Subcontract - Perfluorinated Compounds EPA Method 537mod (9 Compounds)	
MW-13_20210428	4/28/2021 13:10	aqueous	Subcontract - Perfluorinated Compounds EPA Method 537mod (9 Compounds)	
MW-14_20210428	4/28/2021 14:00	aqueous	Subcontract - Perfluorinated Compounds EPA Method 537mod (9 Compounds)	

EAI ID# **225399**

Project State: NH

Project ID: 5379

Company Vista Analytical Laboratory

Address 1104 Windfield Way

Address El Dorado Hills, CA 95762

Account #

Phone # (916) 673-1520

Results Needed: Preferred Date: Standard

RUSH Due Date: _____

QC Deliverables

A A+ B B+ C MA MCP

Notes about project:

Email login confirmation, pdf of results and invoice to customerservice@easternanalytical.com.

PFAS by Method 537 modified with Isotope Dilution. NHDES 9 Compound List. Report Sulfonic Acids

PO #: 54843

EAI ID# 225399

Data Deliverable (circle)

Excel NH EMD **EQUIS** ME EGAD

Call prior to analyzing, if RUSH charges will be applied.

Samples Collected by:

Relinquished by: [Signature] Date/Time: 4/29/21 10:00 Received by: [Signature]
 -Received via email 04/30/21/21
 Relinquished by: _____ Date/Time: _____ Received by: _____

Eastern Analytical, Inc. 25 Chenell Dr. Concord, NH 03301

Phone: (603) 228-0525

1-800-287-0525

customerservice@easternanalytical.com

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CHAIN-OF-CUSTODY RECORD

EAI ID# **225399**

Page 3

Sample ID	Date Sampled	Matrix	Parameters	Sample Notes
MW-34_20210428	4/28/2021 08:20	aqueous	Subcontract - Perfluorinated Compounds EPA Method 537mod (9 Compounds)	2104311 4.3°C
MW-34R_20210429	4/29/2021 09:45	aqueous	Subcontract - Perfluorinated Compounds EPA Method 537mod (9 Compounds)	
FB-01_20210429	4/29/2021 09:59	aqueous	Subcontract - Perfluorinated Compounds EPA Method 537mod (9 Compounds)	

EAI ID# **225399**

Project State: NH

Project ID: 5379

Company Vista Analytical Laboratory

Address 1104 Windfield Way

Address El Dorado Hills, CA 95762

Account #

Phone # (916) 673-1520

Results Needed: Preferred Date: Standard

RUSH Due Date: _____

QC Deliverables

A A+ B B+ C MA MCP

Notes about project:

Email login confirmation, pdf of results and invoice to customerservice@easternanalytical.com.

PFAS by Method 537 modified with isotope dilution. NHDES 9 Compound List. Report Sulfonic Acids

PO #: 54843

EAI ID# 225399

Data Deliverable (circle)

Excel NH EMD **EQUIS** ME EGAD

Call prior to analyzing, if RUSH charges will be applied.

Samples Collected by:

Relinquished by: [Signature] Date/Time: 4/29/21 11:00 Received by: [Signature]
 Relinquished by: Received via email 04/30/21 Date/Time: _____ Received by: _____

Eastern Analytical, Inc. 25 Chenell Dr. Concord, NH 03301

Phone: (603) 228-0525

1-800-287-0525

customerservice@easternanalytical.com

As a subcontract lab to EAI, you will defend, indemnify and hold Eastern Analytical, Inc., its officers, employees, and agents harmless from and against any and all liability, loss, expense or claims for injury or damages arising out of the performance against this chain of custody but only in proportion to and to the extent such liability, loss, expense, or claims for injury or damages are caused by or result from the negligent or intentional acts or omissions of you as a subcontract lab, your officers, agents or employees



Sample Log-In Checklist

Page # 1 of 1

Vista Work Order #: 2104311 TAT 14 day

Samples Arrival:	Date/Time <u>04/30/21 0935</u>	Initials: <u>(P)</u>	Location: <u>WR-2</u>
			Shelf/Rack: <u>N/A</u>
Delivered By:	FedEx	<u>UPS</u>	On Trac
			GLS
			DHL
			Hand Delivered
			Other
Preservation:	<u>Ice</u> *	Blue Ice	Techni Ice
			Dry Ice
			None
Temp °C: <u>4.4</u> (uncorrected)	Probe used: Y / <u>(N)</u>		Thermometer ID: <u>TE-4</u>
Temp °C: <u>4.3</u> (corrected)			

	YES	NO	NA
Shipping Container(s) Intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Shipping Custody Seals Intact?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Airbill <u>—</u> Trk # <u>12X465990197914764</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Shipping Documentation Present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Shipping Container	Vista	<u>Client</u>	Retain
			<u>Return</u>
			Dispose
Chain of Custody / Sample Documentation Present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Chain of Custody / Sample Documentation Complete?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Holding Time Acceptable?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Logged In:	Date/Time <u>04/30/21 15:17</u>	Initials: <u>(P)</u>	Location: <u>R-13, WR-2</u>
			Shelf/Rack: <u>A-3.E-5</u>
COC Anomaly/Sample Acceptance Form completed?			<input checked="" type="checkbox"/>

Comments:

* Ice was fully melted upon receipt.

CoC/Label Reconciliation Report WO# 2104311

LabNumber	CoC Sample ID	<i>* EAT LABEL</i>	SampleAlias	Sample Date/Time	Container	BaseMatrix	Sample Comments
2104311-01	A MW-3_20210428	<input type="checkbox"/> <i>MW</i>	225399 .01	28-Apr-21 10:05	HDPE Bottle, 125 mL	Aqueous	
2104311-01	B MW-3_20210428	<input type="checkbox"/>	225399 .01	28-Apr-21 10:05	HDPE Bottle, 125 mL	Aqueous	
2104311-02	A MW-4_20210428	<input type="checkbox"/>	225399 .02	28-Apr-21 09:25	HDPE Bottle, 125 mL	Aqueous	
2104311-02	B MW-4_20210428	<input type="checkbox"/>	225399 .02	28-Apr-21 09:25	HDPE Bottle, 125 mL	Aqueous	
2104311-03	A MW-5_20210428	<input type="checkbox"/>	225399 .03	28-Apr-21 14:10	HDPE Bottle, 125 mL	Aqueous	
2104311-03	B MW-5_20210428	<input type="checkbox"/>	225399 .03	28-Apr-21 14:10	HDPE Bottle, 125 mL	Aqueous	
2104311-04	A MW-6_20210428	<input type="checkbox"/>	225399 .04	28-Apr-21 12:15	HDPE Bottle, 125 mL	Aqueous	
2104311-04	B MW-6_20210428	<input type="checkbox"/>	225399 .04	28-Apr-21 12:15	HDPE Bottle, 125 mL	Aqueous	
2104311-05	A MW-7_20210428	<input type="checkbox"/>	225399 .05	28-Apr-21 14:25	HDPE Bottle, 125 mL	Aqueous	
2104311-05	B MW-7_20210428	<input type="checkbox"/>	225399 .05	28-Apr-21 14:25	HDPE Bottle, 125 mL	Aqueous	
2104311-06	A MW-12_20210428	<input type="checkbox"/>	225399 .06	28-Apr-21 13:25	HDPE Bottle, 125 mL	Aqueous	
2104311-06	B MW-12_20210428	<input type="checkbox"/>	225399 .06	28-Apr-21 13:25	HDPE Bottle, 125 mL	Aqueous	
2104311-07	A MW-13_20210428	<input type="checkbox"/>	225399 .07	28-Apr-21 13:10	HDPE Bottle, 125 mL	Aqueous	
2104311-07	B MW-13_20210428	<input type="checkbox"/>	225399 .07	28-Apr-21 13:10	HDPE Bottle, 125 mL	Aqueous	
2104311-08	A MW-14_20210428	<input type="checkbox"/>	225399 .08	28-Apr-21 14:00	HDPE Bottle, 125 mL	Aqueous	
2104311-08	B MW-14_20210428	<input type="checkbox"/>	225399 .08	28-Apr-21 14:00	HDPE Bottle, 125 mL	Aqueous	
2104311-09	A MW-34_20210428	<input type="checkbox"/>	225399 .09	28-Apr-21 08:20	HDPE Bottle, 125 mL	Aqueous	
2104311-09	B MW-34_20210428	<input type="checkbox"/>	225399 .09	28-Apr-21 08:20	HDPE Bottle, 125 mL	Aqueous	
2104311-10	A MW-34R_20210429	<input type="checkbox"/>	225399 .1	29-Apr-21 09:45	HDPE Bottle, 125 mL	Aqueous	
2104311-10	B MW-34R_20210429	<input type="checkbox"/>	225399 .1	29-Apr-21 09:45	HDPE Bottle, 125 mL	Aqueous	
2104311-11	A FB-01_20210429	<input type="checkbox"/> <i>FB</i>	225399 .11	29-Apr-21 09:59	HDPE Bottle, 125 mL	Aqueous	
2104311-11	B FB-01_20210429	<input type="checkbox"/>	225399 .11	29-Apr-21 09:59	HDPE Bottle, 125 mL	Aqueous	

Checkmarks indicate that information on the COC reconciled with the sample label.
 Any discrepancies are noted in the following columns.

	Yes	No	NA
Sample Container Intact?	✓		
Sample Custody Seals Intact?		✓	✓
Adequate Sample Volume?	✓		
Container Type Appropriate for Analysis(es)	✓		

Comments:

* Sample ID reconciled by EAI Label ID + date/time.

29

Preservation Documented: Na2S2O3 Trizma NH4CH3CO2 None Other

All

Verified by/Date: [Signature] 04/30/21

Chain-of-Custody Record

225399

Sample ID	Sampling Date/Time *If Composite, Indicate Both Start & Finish Date/Time	Matrix (see below)	Grab/Composite	PFAS - Method 537 - NHDES 9 Compound List	Analyses Requested													Field Turbidity (NTU)	# of Containers	NOTES MeOH Vial #		
MW-3_20210428	4/28/21 - 1005	GW	G	X																135	2	
MW-4_202104	- 0925	GW	G	X																76.2	2	
MW-5_202104	- 1410	GW	G	X																437	2	
MW-6_202104	- 1215	GW	G	X																87.0	2	
MW-7_202104	- 1425	GW	G	X																> 1000	2	
MW-12_202104	- 1325	GW	G	X																171	2	
MW-13_202104	- 1310	GW	G	X																353	2	
MW-14_202104	- 1400	GW	G	X																118	2	
MW-34_202104	↓ - 0820	GW	G	X																64.8	2	
MW-34R_20210429	4/29/21 - 0945	GW	G	X																38.8	2	
FB-01_202104 29	4/29/21 - 0959	AQ	G	X																-	2	

Matrix: A-Air; S-Soil; GW-Ground Water; SW-Surface Water; DW-Drinking Water;
 WW-Waste Water; AQ-Aqueous; L-Leachate
 Preservative: H-HCl; N-HNO3; SH2SO4; Na-NaOH; M-MeOH; NSO-Na2S2O3

ICE

Project Manager: T. White

Company: Sanborn, Head & Associates, Inc.

Address: 20 Foundry Street

City: Concord State: NH Zip: 03301

Phone 603-229-1900 Ext.:

Fax: 603-229-1919

E-Mail: twhite@sanbornhead.com

Site Name: Dalton | PFAS

Project # 1003.20

State: NH

Regulatory Program: NPDES: RGP POTW Stormwater or GWP, Oil Fund, Brownfield or Other.

Quote #: _____ PO#: _____



Date Needed: Standard TAT

Temp. 17 °C

Metals: _____ Samples Field Filtered: _____

QA/QC Reporting Level: **A** **B** **C** or Presumptive Certainty

Reporting Options: Prelims: Yes or No
 If Yes: Fax or PDF

Electronic Options: No Fax E-Mail PDF Equis

Notes: (i.e., Special Detection Limits, Billing Info, If Diff)

Bill GSL:
 1) Sub to Vista
 2) Please Report Sulfonic Acids
 3) PFAS by Method 537 modified with isotope dilution (NHDES 9 Compound List)

Suspected Contamination: _____
 Field Readings: _____

Sampler(s): MTS GAP

Relinquished By: _____ Date: 4/29/21 Time: 1230 Received By: _____

Relinquished By: _____ Date: _____ Time: _____ Received By: _____

Relinquished By: _____ Date: _____ Time: _____ Received By: _____



Eastern Analytical, Inc.

professional laboratory and drilling services



Tim White
Sanborn, Head & Associates, Inc. (NH)
20 Foundry Street
Concord, NH 03301

Laboratory Report for:

Eastern Analytical, Inc. ID: 225291
Client Identification: Dalton | Surface Water | 1003.20
Date Received: 4/28/2021

Enclosed are the analytical results per the Chain of Custody for sample(s) in the referenced project. All analyses were performed in accordance with our QA/QC Program, NELAP and other applicable state requirements. All quality control criteria was within acceptance criteria unless noted on the report pages. Results are for the exclusive use of the client named on this report and will not be released to a third party without consent.

The following information is contained within this report: Sample Conditions summary, Analytical Results/Data, Quality Control data (if requested) and copies of the Chain of Custody. This report may not be reproduced except in full, without the written approval of the laboratory.

The following standard abbreviations and conventions apply to all EAI reports:

- < : "less than" followed by the reporting limit
- > : "greater than" followed by the reporting limit
- %R : % Recovery

Certifications:

Eastern Analytical, Inc. maintains certification in the following states: Connecticut (PH-0492), Maine (NH005), Massachusetts (M-NH005), New Hampshire/NELAP (1012), Rhode Island (269), Vermont (VT1012), New York (12072), West Virginia (9910C) and Alabama (41620). Please refer to our website at www.easternanalytical.com for a copy of our certificates and accredited parameters.


References:

- EPA 600/4-79-020, 1983
- Standard Methods for Examination of Water and Wastewater, 20th, 21st, 22nd & 23rd edition or noted revision year.
- Test Methods for Evaluating Solid Waste SW 846 3rd Edition including updates IVA and IVB
- Hach Water Analysis Handbook, 4th edition, 1992

If you have any questions regarding the results contained within, please feel free to contact customer service. Unless otherwise requested, we will dispose of the sample(s) 6 weeks from the sample receipt date.

We appreciate this opportunity to be of service and look forward to your continued patronage.

Sincerely,


Lorraine Olashaw, Lab Director

5.5.21
Date

19
of pages (excluding cover letter)



SAMPLE CONDITIONS PAGE

EAI ID#: 225291

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Dalton | Surface Water | 1003.20**

Temperature upon receipt (°C): 3.1

Received on ice or cold packs (Yes/No): Y

Acceptable temperature range (°C): 0-6

Lab ID	Sample ID	Date Received	Date/Time Sampled	Sample Matrix	% Dry Weight	Exceptions/Comments (other than thermal preservation)
225291.01	SG-2_20210427	4/28/21	4/27/21 09:15	aqueous		Adheres to Sample Acceptance Policy
225291.02	SG-3_20210427	4/28/21	4/27/21 08:30	aqueous		Adheres to Sample Acceptance Policy
225291.03	SG-4_20210427	4/28/21	4/27/21 10:45	aqueous		Adheres to Sample Acceptance Policy
225291.04	SG-5_20210427	4/28/21	4/27/21 10:15	aqueous		Adheres to Sample Acceptance Policy
225291.05	AB-1_20210427	4/28/21	4/27/21 09:40	aqueous		Adheres to Sample Acceptance Policy
225291.06	SWDUP-1_20210427	4/28/21	4/27/21 08:30	aqueous		Adheres to Sample Acceptance Policy
225291.07	TB-SW-01_20210427	4/28/21	4/27/21 11:15	aqueous		Adheres to Sample Acceptance Policy
225291.08	TB-LL-SW-01_20210427	4/28/21	4/27/21 11:15	aqueous		Adheres to Sample Acceptance Policy

All results contained in this report relate only to the above listed samples.

Unless otherwise noted:

- Hold times, preservation, container types, and sample conditions adhered to EPA Protocol.
- Solid samples are reported on a dry weight basis, unless otherwise noted. pH/Corrosivity, Flashpoint, Ignitability, Paint Filter, Conductivity and Specific Gravity are always reported on an "as received" basis.
- Analysis of pH, Total Residual Chlorine, Dissolved Oxygen and Sulfite were performed at the laboratory outside of the recommended 15 minute hold time.
- Samples collected by Eastern Analytical, Inc. (EAI) were collected in accordance with approved EPA procedures.



LABORATORY REPORT

EAI ID#: 225291

Client: Sanborn, Head & Associates, Inc. (NH)

Client Designation: Dalton | Surface Water | 1003.20

Sample ID:	SG-2_20210427	SG-3_20210427	SG-4_20210427	SG-5_20210427
Lab Sample ID:	225291.01	225291.02	225291.03	225291.04
Matrix:	aqueous	aqueous	aqueous	aqueous
Date Sampled:	4/27/21	4/27/21	4/27/21	4/27/21
Date Received:	4/28/21	4/28/21	4/28/21	4/28/21
Units:	ug/L	ug/L	ug/L	ug/L
Date of Analysis:	4/29/21	4/29/21	4/29/21	4/29/21
Analyst:	JAK	JAK	JAK	JAK
Method:	8260C	8260C	8260C	8260C
Dilution Factor:	1	1	1	1
Dichlorodifluoromethane	< 2	< 2	< 2	< 2
Chloromethane	< 2	< 2	< 2	< 2
Vinyl chloride	< 1	< 1	< 1	< 1
Bromomethane	< 2	< 2	< 2	< 2
Chloroethane	< 2	< 2	< 2	< 2
Trichlorofluoromethane	< 2	< 2	< 2	< 2
Diethyl Ether	< 2	< 2	< 2	< 2
Acetone	< 10	< 10	< 10	< 10
1,1-Dichloroethene	< 0.5	< 0.5	< 0.5	< 0.5
tert-Butyl Alcohol (TBA)	< 30	< 30	< 30	< 30
Methylene chloride	< 1	< 1	< 1	< 1
Carbon disulfide	< 2	< 2	< 2	< 2
Methyl-t-butyl ether(MTBE)	< 1	< 1	< 1	< 1
Ethyl-t-butyl ether(ETBE)	< 2	< 2	< 2	< 2
Isopropyl ether(DIPE)	< 2	< 2	< 2	< 2
tert-amyl methyl ether(TAME)	< 2	< 2	< 2	< 2
trans-1,2-Dichloroethene	< 1	< 1	< 1	< 1
1,1-Dichloroethane	< 1	< 1	< 1	< 1
2,2-Dichloropropane	< 1	< 1	< 1	< 1
cis-1,2-Dichloroethene	< 1	< 1	< 1	< 1
2-Butanone(MEK)	< 10	< 10	< 10	< 10
Bromochloromethane	< 1	< 1	< 1	< 1
Tetrahydrofuran(THF)	< 10	< 10	< 10	< 10
Chloroform	< 1	< 1	< 1	< 1
1,1,1-Trichloroethane	< 1	< 1	< 1	< 1
Carbon tetrachloride	< 1	< 1	< 1	< 1
1,1-Dichloropropene	< 1	< 1	< 1	< 1
Benzene	< 1	< 1	< 1	< 1
1,2-Dichloroethane	< 1	< 1	< 1	< 1
Trichloroethene	< 1	< 1	< 1	< 1
1,2-Dichloropropane	< 1	< 1	< 1	< 1
Dibromomethane	< 1	< 1	< 1	< 1
Bromodichloromethane	< 0.5	< 0.5	< 0.5	< 0.5
1,4-Dioxane	< 50	< 50	< 50	< 50
4-Methyl-2-pentanone(MIBK)	< 10	< 10	< 10	< 10
cis-1,3-Dichloropropene	< 0.5	< 0.5	< 0.5	< 0.5
Toluene	< 1	< 1	< 1	< 1
trans-1,3-Dichloropropene	< 0.5	< 0.5	< 0.5	< 0.5
1,1,2-Trichloroethane	< 1	< 1	< 1	< 1
2-Hexanone	< 10	< 10	< 10	< 10
Tetrachloroethene	< 1	< 1	< 1	< 1
1,3-Dichloropropane	< 1	< 1	< 1	< 1
Dibromochloromethane	< 1	< 1	< 1	< 1
1,2-Dibromoethane(EDB)	< 0.5	< 0.5	< 0.5	< 0.5
Chlorobenzene	< 1	< 1	< 1	< 1
1,1,1,2-Tetrachloroethane	< 1	< 1	< 1	< 1



LABORATORY REPORT

EAI ID#: **225291**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Dalton | Surface Water | 1003.20**

Sample ID:	SG-2_20210427	SG-3_20210427	SG-4_20210427	SG-5_20210427
Lab Sample ID:	225291.01	225291.02	225291.03	225291.04
Matrix:	aqueous	aqueous	aqueous	aqueous
Date Sampled:	4/27/21	4/27/21	4/27/21	4/27/21
Date Received:	4/28/21	4/28/21	4/28/21	4/28/21
Units:	ug/L	ug/L	ug/L	ug/L
Date of Analysis:	4/29/21	4/29/21	4/29/21	4/29/21
Analyst:	JAK	JAK	JAK	JAK
Method:	8260C	8260C	8260C	8260C
Dilution Factor:	1	1	1	1
Ethylbenzene	< 1	< 1	< 1	< 1
mp-Xylene	< 1	< 1	< 1	< 1
o-Xylene	< 1	< 1	< 1	< 1
Styrene	< 1	< 1	< 1	< 1
Bromoform	< 2	< 2	< 2	< 2
IsoPropylbenzene	< 1	< 1	< 1	< 1
Bromobenzene	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	< 1	< 1	< 1	< 1
1,2,3-Trichloropropane	< 0.5	< 0.5	< 0.5	< 0.5
n-Propylbenzene	< 1	< 1	< 1	< 1
2-Chlorotoluene	< 1	< 1	< 1	< 1
4-Chlorotoluene	< 1	< 1	< 1	< 1
1,3,5-Trimethylbenzene	< 1	< 1	< 1	< 1
tert-Butylbenzene	< 1	< 1	< 1	< 1
1,2,4-Trimethylbenzene	< 1	< 1	< 1	< 1
sec-Butylbenzene	< 1	< 1	< 1	< 1
1,3-Dichlorobenzene	< 1	< 1	< 1	< 1
p-Isopropyltoluene	< 1	< 1	< 1	< 1
1,4-Dichlorobenzene	< 1	< 1	< 1	< 1
1,2-Dichlorobenzene	< 1	< 1	< 1	< 1
n-Butylbenzene	< 1	< 1	< 1	< 1
1,2-Dibromo-3-chloropropane	< 2	< 2	< 2	< 2
1,3,5-Trichlorobenzene	< 1	< 1	< 1	< 1
1,2,4-Trichlorobenzene	< 1	< 1	< 1	< 1
Hexachlorobutadiene	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	< 2	< 2	< 2	< 2
1,2,3-Trichlorobenzene	< 0.5	< 0.5	< 0.5	< 0.5
4-Bromofluorobenzene (surr)	82 %R	83 %R	83 %R	83 %R
1,2-Dichlorobenzene-d4 (surr)	90 %R	90 %R	90 %R	91 %R
Toluene-d8 (surr)	91 %R	89 %R	89 %R	90 %R
1,2-Dichloroethane-d4 (surr)	90 %R	90 %R	91 %R	91 %R



LABORATORY REPORT

EAI ID#: 225291

Client: **Sanborn, Head & Associates, Inc. (NH)**
 Client Designation: **Dalton | Surface Water | 1003.20**

Sample ID:	AB-1_20210427	SWDUP-1_20210427	TB-SW-01_20210427
Lab Sample ID:	225291.05	225291.06	225291.07
Matrix:	aqueous	aqueous	aqueous
Date Sampled:	4/27/21	4/27/21	4/27/21
Date Received:	4/28/21	4/28/21	4/28/21
Units:	ug/L	ug/L	ug/L
Date of Analysis:	4/29/21	4/29/21	4/29/21
Analyst:	JAK	JAK	JAK
Method:	8260C	8260C	8260C
Dilution Factor:	1	1	1
Dichlorodifluoromethane	< 2	< 2	< 2
Chloromethane	< 2	< 2	< 2
Vinyl chloride	< 1	< 1	< 1
Bromomethane	< 2	< 2	< 2
Chloroethane	< 2	< 2	< 2
Trichlorofluoromethane	< 2	< 2	< 2
Diethyl Ether	< 2	< 2	< 2
Acetone	< 10	< 10	< 10
1,1-Dichloroethene	< 0.5	< 0.5	< 0.5
tert-Butyl Alcohol (TBA)	< 30	< 30	< 30
Methylene chloride	< 1	< 1	< 1
Carbon disulfide	< 2	< 2	< 2
Methyl-t-butyl ether(MTBE)	< 1	< 1	< 1
Ethyl-t-butyl ether(ETBE)	< 2	< 2	< 2
Isopropyl ether(DIPE)	< 2	< 2	< 2
tert-amyl methyl ether(TAME)	< 2	< 2	< 2
trans-1,2-Dichloroethene	< 1	< 1	< 1
1,1-Dichloroethane	< 1	< 1	< 1
2,2-Dichloropropane	< 1	< 1	< 1
cis-1,2-Dichloroethene	< 1	< 1	< 1
2-Butanone(MEK)	< 10	< 10	< 10
Bromochloromethane	< 1	< 1	< 1
Tetrahydrofuran(THF)	< 10	< 10	< 10
Chloroform	< 1	< 1	< 1
1,1,1-Trichloroethane	< 1	< 1	< 1
Carbon tetrachloride	< 1	< 1	< 1
1,1-Dichloropropene	< 1	< 1	< 1
Benzene	< 1	< 1	< 1
1,2-Dichloroethane	< 1	< 1	< 1
Trichloroethene	< 1	< 1	< 1
1,2-Dichloropropane	< 1	< 1	< 1
Dibromomethane	< 1	< 1	< 1
Bromodichloromethane	< 0.5	< 0.5	< 0.5
1,4-Dioxane	< 50	< 50	< 50
4-Methyl-2-pentanone(MIBK)	< 10	< 10	< 10
cis-1,3-Dichloropropene	< 0.5	< 0.5	< 0.5
Toluene	< 1	< 1	< 1
trans-1,3-Dichloropropene	< 0.5	< 0.5	< 0.5
1,1,2-Trichloroethane	< 1	< 1	< 1
2-Hexanone	< 10	< 10	< 10
Tetrachloroethene	< 1	< 1	< 1
1,3-Dichloropropane	< 1	< 1	< 1
Dibromochloromethane	< 1	< 1	< 1
1,2-Dibromoethane(EDB)	< 0.5	< 0.5	< 0.5
Chlorobenzene	< 1	< 1	< 1
1,1,1,2-Tetrachloroethane	< 1	< 1	< 1



LABORATORY REPORT

EAI ID#: 225291

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Dalton | Surface Water | 1003.20**

Sample ID:	AB-1_20210427	SWDUP-1_20210427	TB-SW-01_20210427
Lab Sample ID:	225291.05	225291.06	225291.07
Matrix:	aqueous	aqueous	aqueous
Date Sampled:	4/27/21	4/27/21	4/27/21
Date Received:	4/28/21	4/28/21	4/28/21
Units:	ug/L	ug/L	ug/L
Date of Analysis:	4/29/21	4/29/21	4/29/21
Analyst:	JAK	JAK	JAK
Method:	8260C	8260C	8260C
Dilution Factor:	1	1	1
Ethylbenzene	< 1	< 1	< 1
mp-Xylene	< 1	< 1	< 1
o-Xylene	< 1	< 1	< 1
Styrene	< 1	< 1	< 1
Bromoform	< 2	< 2	< 2
IsoPropylbenzene	< 1	< 1	< 1
Bromobenzene	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	< 1	< 1	< 1
1,2,3-Trichloropropane	< 0.5	< 0.5	< 0.5
n-Propylbenzene	< 1	< 1	< 1
2-Chlorotoluene	< 1	< 1	< 1
4-Chlorotoluene	< 1	< 1	< 1
1,3,5-Trimethylbenzene	< 1	< 1	< 1
tert-Butylbenzene	< 1	< 1	< 1
1,2,4-Trimethylbenzene	< 1	< 1	< 1
sec-Butylbenzene	< 1	< 1	< 1
1,3-Dichlorobenzene	< 1	< 1	< 1
p-Isopropyltoluene	< 1	< 1	< 1
1,4-Dichlorobenzene	< 1	< 1	< 1
1,2-Dichlorobenzene	< 1	< 1	< 1
n-Butylbenzene	< 1	< 1	< 1
1,2-Dibromo-3-chloropropane	< 2	< 2	< 2
1,3,5-Trichlorobenzene	< 1	< 1	< 1
1,2,4-Trichlorobenzene	< 1	< 1	< 1
Hexachlorobutadiene	< 0.5	< 0.5	< 0.5
Naphthalene	< 2	< 2	< 2
1,2,3-Trichlorobenzene	< 0.5	< 0.5	< 0.5
4-Bromofluorobenzene (surr)	83 %R	83 %R	83 %R
1,2-Dichlorobenzene-d4 (surr)	90 %R	91 %R	91 %R
Toluene-d8 (surr)	89 %R	90 %R	90 %R
1,2-Dichloroethane-d4 (surr)	90 %R	91 %R	90 %R



QC REPORT

EAI ID#: 225291

Client: Sanborn, Head & Associates, Inc. (NH)

Batch ID: 637552-23588/A042821V82603

Client Designation: Dalton | Surface Water | 1003.20

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
Dichlorodifluoromethane	< 2	21 (106 %R)	20 (102 %R) (4 RPD)	4/29/2021	ug/L	40 - 160	20	8260C
Chloromethane	< 2	19 (94 %R)	18 (92 %R) (2 RPD)	4/29/2021	ug/L	40 - 160	20	8260C
Vinyl chloride	< 1	24 (118 %R)	23 (114 %R) (4 RPD)	4/29/2021	ug/L	70 - 130	20	8260C
Bromomethane	< 2	21 (103 %R)	21 (104 %R) (1 RPD)	4/29/2021	ug/L	40 - 160	20	8260C
Chloroethane	< 2	19 (93 %R)	18 (90 %R) (3 RPD)	4/29/2021	ug/L	70 - 130	20	8260C
Trichlorofluoromethane	< 2	23 (113 %R)	22 (110 %R) (3 RPD)	4/29/2021	ug/L	70 - 130	20	8260C
Diethyl Ether	< 2	18 (92 %R)	18 (92 %R) (1 RPD)	4/29/2021	ug/L	70 - 130	20	8260C
Acetone	< 10	18 (90 %R)	18 (90 %R) (1 RPD)	4/29/2021	ug/L	40 - 160	20	8260C
1,1-Dichloroethene	< 0.5	20 (101 %R)	20 (98 %R) (3 RPD)	4/29/2021	ug/L	70 - 130	20	8260C
tert-Butyl Alcohol (TBA)	< 30	86 (86 %R)	87 (87 %R) (2 RPD)	4/29/2021	ug/L	70 - 130	20	8260C
Methylene chloride	< 1	20 (100 %R)	20 (99 %R) (1 RPD)	4/29/2021	ug/L	70 - 130	20	8260C
Carbon disulfide	< 2	18 (89 %R)	17 (85 %R) (4 RPD)	4/29/2021	ug/L	70 - 130	20	8260C
Methyl-t-butyl ether(MTBE)	< 1	18 (92 %R)	18 (92 %R) (1 RPD)	4/29/2021	ug/L	70 - 130	20	8260C
Ethyl-t-butyl ether(ETBE)	< 2	18 (90 %R)	18 (91 %R) (0 RPD)	4/29/2021	ug/L	70 - 130	20	8260C
Isopropyl ether(DIPE)	< 2	17 (86 %R)	17 (85 %R) (1 RPD)	4/29/2021	ug/L	70 - 130	20	8260C
tert-amyl methyl ether(TAME)	< 2	19 (94 %R)	19 (94 %R) (0 RPD)	4/29/2021	ug/L	70 - 130	20	8260C
trans-1,2-Dichloroethene	< 1	20 (100 %R)	19 (97 %R) (3 RPD)	4/29/2021	ug/L	70 - 130	20	8260C
1,1-Dichloroethane	< 1	19 (94 %R)	18 (92 %R) (2 RPD)	4/29/2021	ug/L	70 - 130	20	8260C
2,2-Dichloropropane	< 1	15 (73 %R)	14 (70 %R) (4 RPD)	4/29/2021	ug/L	70 - 130	20	8260C
cis-1,2-Dichloroethene	< 1	19 (93 %R)	18 (91 %R) (2 RPD)	4/29/2021	ug/L	70 - 130	20	8260C
2-Butanone(MEK)	< 10	17 (87 %R)	18 (89 %R) (2 RPD)	4/29/2021	ug/L	40 - 160	20	8260C
Bromochloromethane	< 1	23 (114 %R)	23 (113 %R) (1 RPD)	4/29/2021	ug/L	70 - 130	20	8260C
Tetrahydrofuran(THF)	< 10	18 (90 %R)	18 (91 %R) (1 RPD)	4/29/2021	ug/L	70 - 130	20	8260C
Chloroform	< 1	19 (96 %R)	19 (94 %R) (2 RPD)	4/29/2021	ug/L	70 - 130	20	8260C
1,1,1-Trichloroethane	< 1	19 (96 %R)	19 (94 %R) (2 RPD)	4/29/2021	ug/L	70 - 130	20	8260C
Carbon tetrachloride	< 1	20 (100 %R)	20 (98 %R) (2 RPD)	4/29/2021	ug/L	70 - 130	20	8260C
1,1-Dichloropropene	< 1	19 (95 %R)	19 (93 %R) (3 RPD)	4/29/2021	ug/L	70 - 130	20	8260C
Benzene	< 1	20 (99 %R)	20 (98 %R) (2 RPD)	4/29/2021	ug/L	70 - 130	20	8260C
1,2-Dichloroethane	< 1	18 (90 %R)	18 (89 %R) (1 RPD)	4/29/2021	ug/L	70 - 130	20	8260C
Trichloroethene	< 1	19 (97 %R)	19 (95 %R) (2 RPD)	4/29/2021	ug/L	70 - 130	20	8260C
1,2-Dichloropropane	< 1	19 (94 %R)	19 (93 %R) (1 RPD)	4/29/2021	ug/L	70 - 130	20	8260C
Dibromomethane	< 1	20 (100 %R)	20 (100 %R) (0 RPD)	4/29/2021	ug/L	70 - 130	20	8260C
Bromodichloromethane	< 0.5	20 (100 %R)	20 (99 %R) (1 RPD)	4/29/2021	ug/L	70 - 130	20	8260C
1,4-Dioxane	< 50	< 50 (108 %R)	< 50 (111 %R) (3 RPD)	4/29/2021	ug/L	40 - 160	20	8260C
4-Methyl-2-pentanone(MIBK)	< 10	17 (85 %R)	17 (86 %R) (1 RPD)	4/29/2021	ug/L	40 - 160	20	8260C
cis-1,3-Dichloropropene	< 0.5	18 (92 %R)	18 (92 %R) (1 RPD)	4/29/2021	ug/L	70 - 130	20	8260C
Toluene	< 1	19 (96 %R)	19 (95 %R) (1 RPD)	4/29/2021	ug/L	70 - 130	20	8260C
trans-1,3-Dichloropropene	< 0.5	18 (89 %R)	18 (90 %R) (1 RPD)	4/29/2021	ug/L	70 - 130	20	8260C
1,1,2-Trichloroethane	< 1	19 (93 %R)	19 (94 %R) (1 RPD)	4/29/2021	ug/L	70 - 130	20	8260C
2-Hexanone	< 10	16 (79 %R)	16 (81 %R) (2 RPD)	4/29/2021	ug/L	40 - 160	20	8260C
Tetrachloroethene	< 1	20 (98 %R)	20 (98 %R) (1 RPD)	4/29/2021	ug/L	70 - 130	20	8260C
1,3-Dichloropropane	< 1	18 (89 %R)	18 (91 %R) (1 RPD)	4/29/2021	ug/L	70 - 130	20	8260C
Dibromochloromethane	< 1	19 (97 %R)	20 (99 %R) (2 RPD)	4/29/2021	ug/L	70 - 130	20	8260C
1,2-Dibromoethane(EDB)	< 0.5	20 (98 %R)	20 (100 %R) (2 RPD)	4/29/2021	ug/L	70 - 130	20	8260C
Chlorobenzene	< 1	20 (100 %R)	20 (100 %R) (1 RPD)	4/29/2021	ug/L	70 - 130	20	8260C
1,1,1,2-Tetrachloroethane	< 1	19 (97 %R)	20 (98 %R) (1 RPD)	4/29/2021	ug/L	70 - 130	20	8260C



QC REPORT

EAI ID#: 225291

Client: Sanborn, Head & Associates, Inc. (NH)

Batch ID: 637552-23588/A042821V82603

Client Designation: Dalton | Surface Water | 1003.20

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
Ethylbenzene	< 1	20 (100 %R)	20 (100 %R) (0 RPD)	4/29/2021	ug/L	70 - 130	20	8260C
mp-Xylene	< 1	41 (103 %R)	41 (103 %R) (0 RPD)	4/29/2021	ug/L	70 - 130	20	8260C
o-Xylene	< 1	21 (103 %R)	21 (103 %R) (0 RPD)	4/29/2021	ug/L	70 - 130	20	8260C
Styrene	< 1	21 (106 %R)	21 (107 %R) (0 RPD)	4/29/2021	ug/L	70 - 130	20	8260C
Bromoform	< 2	21 (103 %R)	21 (105 %R) (2 RPD)	4/29/2021	ug/L	70 - 130	20	8260C
IsoPropylbenzene	< 1	21 (105 %R)	21 (105 %R) (1 RPD)	4/29/2021	ug/L	70 - 130	20	8260C
Bromobenzene	< 1	19 (96 %R)	19 (96 %R) (0 RPD)	4/29/2021	ug/L	70 - 130	20	8260C
1,1,2,2-Tetrachloroethane	< 1	17 (83 %R)	17 (85 %R) (2 RPD)	4/29/2021	ug/L	70 - 130	20	8260C
1,2,3-Trichloropropane	< 0.5	17 (86 %R)	18 (88 %R) (2 RPD)	4/29/2021	ug/L	70 - 130	20	8260C
n-Propylbenzene	< 1	19 (94 %R)	19 (93 %R) (1 RPD)	4/29/2021	ug/L	70 - 130	20	8260C
2-Chlorotoluene	< 1	19 (94 %R)	19 (94 %R) (1 RPD)	4/29/2021	ug/L	70 - 130	20	8260C
4-Chlorotoluene	< 1	18 (92 %R)	18 (92 %R) (0 RPD)	4/29/2021	ug/L	70 - 130	20	8260C
1,3,5-Trimethylbenzene	< 1	19 (97 %R)	19 (96 %R) (1 RPD)	4/29/2021	ug/L	70 - 130	20	8260C
tert-Butylbenzene	< 1	19 (94 %R)	19 (93 %R) (0 RPD)	4/29/2021	ug/L	70 - 130	20	8260C
1,2,4-Trimethylbenzene	< 1	19 (97 %R)	19 (97 %R) (0 RPD)	4/29/2021	ug/L	70 - 130	20	8260C
sec-Butylbenzene	< 1	20 (99 %R)	20 (98 %R) (1 RPD)	4/29/2021	ug/L	70 - 130	20	8260C
1,3-Dichlorobenzene	< 1	19 (95 %R)	19 (95 %R) (0 RPD)	4/29/2021	ug/L	70 - 130	20	8260C
p-Isopropyltoluene	< 1	20 (98 %R)	19 (97 %R) (1 RPD)	4/29/2021	ug/L	70 - 130	20	8260C
1,4-Dichlorobenzene	< 1	18 (92 %R)	19 (93 %R) (0 RPD)	4/29/2021	ug/L	70 - 130	20	8260C
1,2-Dichlorobenzene	< 1	18 (92 %R)	19 (93 %R) (1 RPD)	4/29/2021	ug/L	70 - 130	20	8260C
n-Butylbenzene	< 1	18 (90 %R)	18 (89 %R) (1 RPD)	4/29/2021	ug/L	70 - 130	20	8260C
1,2-Dibromo-3-chloropropane	< 2	17 (84 %R)	17 (86 %R) (3 RPD)	4/29/2021	ug/L	70 - 130	20	8260C
1,3,5-Trichlorobenzene	< 1	18 (91 %R)	18 (91 %R) (0 RPD)	4/29/2021	ug/L	70 - 130	20	8260C
1,2,4-Trichlorobenzene	< 1	18 (88 %R)	18 (89 %R) (2 RPD)	4/29/2021	ug/L	70 - 130	20	8260C
Hexachlorobutadiene	< 0.5	17 (87 %R)	17 (86 %R) (1 RPD)	4/29/2021	ug/L	70 - 130	20	8260C
Naphthalene	< 2	18 (92 %R)	19 (95 %R) (3 RPD)	4/29/2021	ug/L	70 - 130	20	8260C
1,2,3-Trichlorobenzene	< 0.5	18 (90 %R)	18 (92 %R) (2 RPD)	4/29/2021	ug/L	70 - 130	20	8260C
4-Bromofluorobenzene (surr)	84 %R	93 %R	94 %R	4/29/2021	% Rec	70 - 130	20	8260C
1,2-Dichlorobenzene-d4 (surr)	91 %R	83 %R	85 %R	4/29/2021	% Rec	70 - 130	20	8260C
Toluene-d8 (surr)	90 %R	90 %R	91 %R	4/29/2021	% Rec	70 - 130	20	8260C
1,2-Dichloroethane-d4 (surr)	90 %R	85 %R	84 %R	4/29/2021	% Rec	70 - 130	20	8260C

*! Flagged analyte recoveries deviated from the QA/QC limits. Data that impacts sample results are noted on the sample report.



LABORATORY REPORT

EAI ID#: **225291**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Dalton | Surface Water | 1003.20**

Sample ID:	SG-2_20210427	SG-3_20210427	SG-4_20210427	SG-5_20210427
Lab Sample ID:	225291.01	225291.02	225291.03	225291.04
Matrix:	aqueous	aqueous	aqueous	aqueous
Date Sampled:	4/27/21	4/27/21	4/27/21	4/27/21
Date Received:	4/28/21	4/28/21	4/28/21	4/28/21
Units:	ug/L	ug/L	ug/L	ug/L
Date of Analysis:	4/29/21	4/29/21	4/29/21	4/29/21
Analyst:	AM	AM	AM	AM
Method:	8260B SIM	8260B SIM	8260B SIM	8260B SIM
Dilution Factor:	1	1	1	1
1,4-Dioxane	< 0.25	< 0.25	< 0.25	< 0.25
4-Bromofluorobenzene (surr)	103 %R	101 %R	98 %R	99 %R
Toluene-d8 (surr)	102 %R	102 %R	98 %R	98 %R



LABORATORY REPORT

EAI ID#: **225291**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Dalton | Surface Water | 1003.20**

Sample ID: AB-1_20210427 SWDUP-1_20210427 TB-LL-SW-01_20210427

Lab Sample ID:	225291.05	225291.06	225291.08
Matrix:	aqueous	aqueous	aqueous
Date Sampled:	4/27/21	4/27/21	4/27/21
Date Received:	4/28/21	4/28/21	4/28/21
Units:	ug/L	ug/L	ug/L
Date of Analysis:	4/29/21	4/29/21	4/29/21
Analyst:	AM	AM	AM
Method:	8260B SIM	8260B SIM	8260B SIM
Dilution Factor:	1	1	1
1,4-Dioxane	< 0.25	< 0.25	< 0.25
4-Bromofluorobenzene (surr)	104 %R	108 %R	102 %R
Toluene-d8 (surr)	102 %R	102 %R	102 %R



QC REPORT

EAI ID#: 225291

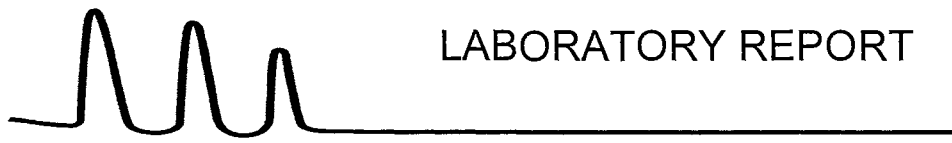
Client: Sanborn, Head & Associates, Inc. (NH)

Batch ID: 637553-87592/A042821DIOX2

Client Designation: Dalton | Surface Water | 1003.20

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
1,4-Dioxane	< 0.2	4.2 (83 %R)	4.2 (84 %R) (1 RPD)	4/29/2021	ug/L	70 - 130	20	8260B
4-Bromofluorobenzene (surr)	103 %R	102 %R	104 %R	4/29/2021	% Rec	70 - 130	50	8260B
Toluene-d8 (surr)	106 %R	103 %R	103 %R	4/29/2021	% Rec	70 - 130	50	8260B

*! Flagged analyte recoveries deviated from the QA/QC limits. Data that impacts sample results are noted on the sample report.



LABORATORY REPORT

EAI ID#: **225291**

Client: **Sanborn, Head & Associates, Inc. (NH)**
 Client Designation: **Dalton | Surface Water | 1003.20**

Sample ID:	SG-2_20210427	SG-3_20210427	SG-4_20210427	SG-5_20210427
Lab Sample ID:	225291.01	225291.02	225291.03	225291.04
Matrix:	aqueous	aqueous	aqueous	aqueous
Date Sampled:	4/27/21	4/27/21	4/27/21	4/27/21
Date Received:	4/28/21	4/28/21	4/28/21	4/28/21
Units:	ug/L	ug/L	ug/L	ug/L
Date of Extraction/Prep:	4/29/21	4/29/21	4/29/21	4/29/21
Date of Analysis:	4/29/21	4/29/21	4/29/21	4/29/21
Analyst:	AR	AR	AR	AR
Method:	8011/504	8011/504	8011/504	8011/504
Dilution Factor:	1	1	1	1
1,2-Dibromoethane(EDB)	< 0.02	< 0.02	< 0.02	< 0.02
Dibromochloropropane (DBCP)	< 0.02	< 0.02	< 0.02	< 0.02
1,1,1,2-Tetrachloroethane (surr)	98 %R	100 %R	102 %R	97 %R



LABORATORY REPORT

EAI ID#: 225291

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Dalton | Surface Water | 1003.20**

Sample ID: AB-1_20210427 SWDUP-1_20210427

Lab Sample ID:	225291.05	225291.06
Matrix:	aqueous	aqueous
Date Sampled:	4/27/21	4/27/21
Date Received:	4/28/21	4/28/21
Units:	ug/L	ug/L
Date of Extraction/Prep:	4/29/21	4/29/21
Date of Analysis:	4/29/21	4/29/21
Analyst:	AR	AR
Method:	8011/504	8011/504
Dilution Factor:	1	1
1,2-Dibromoethane(EDB)	< 0.02	< 0.02
Dibromochloropropane (DBCP)	< 0.02	< 0.02
1,1,1,2-Tetrachloroethane (surr)	100 %R	100 %R



QC REPORT

EAI ID#: **225291**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Batch ID: 637552-86723/A042921E5041

Client Designation: **Dalton | Surface Water | 1003.20**

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
1,2-Dibromoethane(EDB)	< 0.02	0.10 (102 %R)	0.10 (103 %R) (1 RPD)	4/29/2021	ug/L	70 - 130	20	8011/504
Dibromochloropropane (DBCP)	< 0.02	0.096 (96 %R)	0.098 (98 %R) (2 RPD)	4/29/2021	ug/L	70 - 130	20	8011/504
1,1,1,2-Tetrachloroethane (surr)	103 %R	94 %R	97 %R	4/29/2021	% Rec	65 - 135	20	8011/504

*! Flagged analyte recoveries deviated from the QA/QC limits. Data that impacts sample results are noted on the sample report.



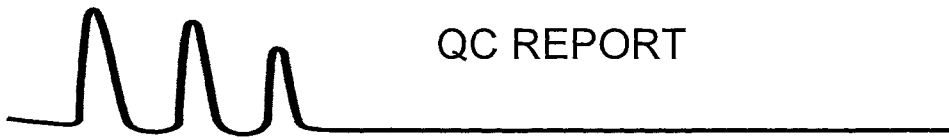
LABORATORY REPORT

EAI ID#: 225291

Client: **Sanborn, Head & Associates, Inc. (NH)**
 Client Designation: **Dalton | Surface Water | 1003.20**

Sample ID:	SG-2_20210427	SG -3_20210427	SG -4_20210427	SG -5_20210427					
Lab Sample ID:	225291.01	225291.02	225291.03	225291.04					
Matrix:	aqueous	aqueous	aqueous	aqueous					
Date Sampled:	4/27/21	4/27/21	4/27/21	4/27/21					
Date Received:	4/28/21	4/28/21	4/28/21	4/28/21					
					Units	Date	Time	Method	Analyst
Sulfate	2.4	20	4.4	2.5	mg/L	04/28/21	23:30	300.0	ATA
Chloride	< 1	1.5	< 1	< 1	mg/L	04/28/21	16:15	4500CIE-11	ATA
Nitrate-N	< 0.5	< 0.5	< 0.5	< 0.5	mg/L	04/28/21	16:15	353.2	ATA
Alkalinity Total (CaCO3)	3.7	35	15	5.2	mg/L	04/30/21	11:24	2320B-11	RB
TKN	< 0.5	< 0.5	< 0.5	< 0.5	mg/L	04/30/21	14:57	4500N _{org} C/NH3D	SEL
COD	20	10	11	19	mg/L	04/29/21	9:10	H8000	JCS
Dissolved Organic Carbon	8.3	3.1	5.2	8.2	mg/L	05/03/21	11:31	5310C-00	LO

Sample ID:	AB-1_20210427	SWDUP -1_20210427							
Lab Sample ID:	225291.05	225291.06							
Matrix:	aqueous	aqueous							
Date Sampled:	4/27/21	4/27/21							
Date Received:	4/28/21	4/28/21							
					Units	Date	Time	Method	Analyst
Sulfate	8.1	19			mg/L	04/29/21	0:31	300.0	ATA
Chloride	< 1	1.4			mg/L	04/28/21	14:21	4500CIE-11	ATA
Nitrate-N	< 0.5	< 0.5			mg/L	04/28/21	14:21	353.2	ATA
Alkalinity Total (CaCO3)	15	33			mg/L	04/30/21	11:24	2320B-11	RB
TKN	< 0.5	< 0.5			mg/L	04/30/21	15:08	4500N _{org} C/NH3D	SEL
COD	< 10	< 10			mg/L	04/29/21	9:10	H8000	JCS
Dissolved Organic Carbon	3.1	3.0			mg/L	05/03/21	12:25	5310C-00	LO



QC REPORT

EAI ID#: **225291**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Dalton | Surface Water | 1003.20**

Parameter Name	Blank	LCS	LCSD	Units	Date of Analysis	Limits	RPD	Method
Sulfate	< 1	18 (92 %R)	19 (95 %R) (3 RPD)	mg/L		90 - 110	20	300.0
Chloride	< 1	27 (109 %R)	23 (92 %R) (16 RPD)	mg/L	4/28/21	90 - 110	20	4500CIE-11
Nitrate-N	< 0.5	4.6 (92 %R)	4.9 (97 %R) (5 RPD)	mg/L	4/28/21	90 - 110	20	353.2
Alkalinity Total (CaCO ₃)	< 1	11 (107 %R)	11 (106 %R) (1 RPD)	mg/L	4/30/21	85 - 115	20	2320B-11
TKN	< 0.5	11 (109 %R)	9.9 (99 %R) (9 RPD)	mg/L	4/30/21	90 - 111	20	4500N _{org} C/NH3D-11
COD	< 10	100 (104 %R)	100 (101 %R) (3 RPD)	mg/L	4/29/21	85 - 115	20	H8000
Dissolved Organic Carbon	< 0.5	10 (101 %R)	10 (103 %R) (1 RPD)	mg/L	5/3/21	90 - 110	20	5310C-00

*! Flagged analyte recoveries deviated from the QA/QC limits. Unless noted, flagged data does not impact the sample data.



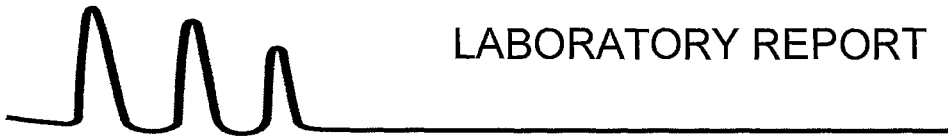
LABORATORY REPORT

EAI ID#: **225291**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Dalton | Surface Water | 1003.20**

Sample ID:	SG	SG	SG						
	SG-2_20210427	-3_20210427	-4_20210427	-5_20210427					
Lab Sample ID:	225291.01	225291.02	225291.03	225291.04					
Matrix:	aqueous	aqueous	aqueous	aqueous					
Date Sampled:	4/27/21	4/27/21	4/27/21	4/27/21	Analytical Matrix	Units	Date of Analysis	Method	Analyst
Date Received:	4/28/21	4/28/21	4/28/21	4/28/21					
Total Hardness (as CaCO3)	7.4	51	15	8.3	AqTot	mg/L	4/30/21	200.8	DS
Antimony	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	4/30/21	200.8	DS
Arsenic	< 0.0005	< 0.0005	< 0.0005	< 0.0005	AqDis	mg/L	4/30/21	200.8	DS
Barium	0.0093	0.012	0.0047	0.0074	AqDis	mg/L	4/30/21	200.8	DS
Beryllium	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	4/30/21	200.8	DS
Cadmium	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	4/30/21	200.8	DS
Chromium	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	4/30/21	200.8	DS
Copper	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	4/30/21	200.8	DS
Iron	0.15	< 0.05	0.057	0.056	AqDis	mg/L	4/30/21	200.8	DS
Lead	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	4/30/21	200.8	DS
Magnesium	0.42	1.9	0.72	0.46	AqDis	mg/L	4/30/21	200.8	DS
Manganese	0.010	0.017	0.041	0.017	AqDis	mg/L	4/30/21	200.8	DS
Nickel	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	4/30/21	200.8	DS
Potassium	0.28	1.4	0.89	0.36	AqDis	mg/L	4/30/21	200.8	DS
Silver	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	4/30/21	200.8	DS
Thallium	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	4/30/21	200.8	DS



LABORATORY REPORT

EAI ID#: **225291**

Client: **Sanborn, Head & Associates, Inc. (NH)**
 Client Designation: **Dalton | Surface Water | 1003.20**

Sample ID: AB-1_20210427 SWDUP
 -1_20210427

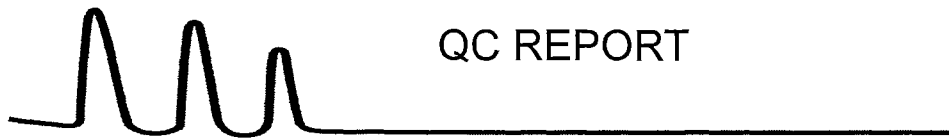
Lab Sample ID: 225291.05 225291.06

Matrix: aqueous aqueous

Date Sampled: 4/27/21 4/27/21

Date Received: 4/28/21 4/28/21

			Analytical Matrix	Units	Date of Analysis	Method	Analyst
Total Hardness (as CaCO ₃)	19	50	AqTot	mg/L	4/30/21	200.8	DS
Antimony	< 0.001	< 0.001	AqDis	mg/L	4/30/21	200.8	DS
Arsenic	< 0.0005	< 0.0005	AqDis	mg/L	4/30/21	200.8	DS
Barium	0.0053	0.012	AqDis	mg/L	4/30/21	200.8	DS
Beryllium	< 0.001	< 0.001	AqDis	mg/L	4/30/21	200.8	DS
Cadmium	< 0.001	< 0.001	AqDis	mg/L	4/30/21	200.8	DS
Chromium	< 0.001	< 0.001	AqDis	mg/L	4/30/21	200.8	DS
Copper	< 0.001	< 0.001	AqDis	mg/L	4/30/21	200.8	DS
Iron	0.071	< 0.05	AqDis	mg/L	4/30/21	200.8	DS
Lead	< 0.001	< 0.001	AqDis	mg/L	4/30/21	200.8	DS
Magnesium	1.2	1.8	AqDis	mg/L	4/30/21	200.8	DS
Manganese	0.030	0.017	AqDis	mg/L	4/30/21	200.8	DS
Nickel	< 0.001	< 0.001	AqDis	mg/L	4/30/21	200.8	DS
Potassium	0.66	1.3	AqDis	mg/L	4/30/21	200.8	DS
Silver	< 0.001	< 0.001	AqDis	mg/L	4/30/21	200.8	DS
Thallium	< 0.001	< 0.001	AqDis	mg/L	4/30/21	200.8	DS



QC REPORT

EAI ID#: 225291

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Dalton | Surface Water | 1003.20**

Parameter Name	Blank	LCS	LCSD	Units	Date of Analysis	Limits	RPD	Method
Antimony	< 0.001	0.21 (105 %R)	NA	mg/L	4/30/21	85 - 115	20	200.8
Arsenic	< 0.0005	0.21 (105 %R)	NA	mg/L	4/30/21	85 - 115	20	200.8
Barium	< 0.001	0.21 (106 %R)	NA	mg/L	4/30/21	85 - 115	20	200.8
Beryllium	< 0.001	0.20 (100 %R)	NA	mg/L	4/30/21	85 - 115	20	200.8
Cadmium	< 0.001	0.20 (101 %R)	NA	mg/L	4/30/21	85 - 115	20	200.8
Chromium	< 0.001	0.20 (100 %R)	NA	mg/L	4/30/21	85 - 115	20	200.8
Copper	< 0.001	0.20 (100 %R)	NA	mg/L	4/30/21	85 - 115	20	200.8
Iron	< 0.05	10 (100 %R)	NA	mg/L	4/30/21	85 - 115	20	200.8
Lead	< 0.001	0.20 (99 %R)	NA	mg/L	4/30/21	85 - 115	20	200.8
Magnesium	< 0.05	9.9 (97 %R)	NA	mg/L	4/30/21	85 - 115	20	200.8
Manganese	< 0.005	0.20 (99 %R)	NA	mg/L	4/30/21	85 - 115	20	200.8
Nickel	< 0.001	0.20 (99 %R)	NA	mg/L	4/30/21	85 - 115	20	200.8
Potassium	< 0.05	10 (98 %R)	NA	mg/L	4/30/21	85 - 115	20	200.8
Silver	< 0.001	0.18 (91 %R)	NA	mg/L	4/30/21	85 - 115	20	200.8
Thallium	< 0.001	0.20 (102 %R)	NA	mg/L	4/30/21	85 - 115	20	200.8

*! Flagged analyte recoveries deviated from the QA/QC limits. Unless noted, flagged data does not impact the sample data.

Chain-of-Custody Record

Form **225291**

Sample ID	Sampling Date/Time *If Composite, Indicate Both Start & Finish Date/Time	Matrix (see below)	Grab/Composite	Analyses Requested												# of Containers	NOTES MeOH Vial #																					
				VOCs - EPA 8260C	Low Level 1,4-Dioxane (USEPA 8260D-SIM)	Low Level EDB/DBCP (604.1)	COG (SM 5220D); TKN (SM4500Norg/CANHD)	DOC (6510C)	Chloride, Nitrate, Sulfate (EPA 300.0)	Alkalinity (SM2320B)	Dissolved Metals List A (EPA 200.8)	Hardness (EPA 200.8) SM2340B)																										
SG-2_20210427	4/27/21 - 0915	SWG	G	X	X	X	X	X	X	X	X	X	X																							12		
SG-3_202104	- 0830			X	X	X	X	X	X	X	X	X	X																									
SG-4_202104	- 1045			X	X	X	X	X	X	X	X	X	X																									
SG-5_202104	- 1015			X	X	X	X	X	X	X	X	X	X																									
AB-1_202104	- 0940			X	X	X	X	X	X	X	X	X	X																									
SWDUP-1_202104	- 0830		↓	X	X	X	X	X	X	X	X	X	X																									
TB-SW-01_202104	- 1115		AQ	X																																	2	
TB-LL-SW-01_202104	↓ - 1115		AQ ↓		X																																2	
MTS																																						
Matrix: A-Air; S-Soil; GW-Ground Water; SW-Surface Water; DW-Drinking Water; WW-Waste Water; AQ-Aqueous Preservative: H-HCl; N-HNO3; S-H2SO4; Na-NaOH; M-MeOH; NSO-Na2S2O3				H	Ice	NSC	S	Ice	Ice	Ice	N	N																										

Project Manager: T. White
 Company: Sanborn, Head & Associates, Inc.
 Address: 20 Foundry Street
 City: Concord State: NH Zip: 03301
 Phone: 603-229-1900 Ext.:
 Fax: 603-229-1919
 E-Mail: twhite@sanbornhead.com
 Site Name: Dalton | Surface Water
 Project #: 1003.20
 State: NH
 Regulatory Program: NPDES; RGP POTW Stormwater or GWP, Oil Fund, Brownfield or Other:
 Quote #: PO#:

Date Needed: Standard TAT
 QA/QC Reporting Level: A C **B** C
 Reporting Options: Prelims: Yes or No
 If Yes: Fax or PDF
 Electronic Options: E-Mail PDF Equis
 Presumptive Certainty
 Sampler(s): MTS, GAP
 Relinquished By: *Mark Halls* Date: 4/27/21 Time: 1600 Received By: *Mark Halls*
 Relinquished By: *Mark Halls* Date: 4/29/21 Time: 8:15 Received By: *Chris Johnson*
 Relinquished By: Date: Time: Received By:

Temp: 31 °C
 Ice? Yes No

Metals: Lists Below Samples Field Filtered: N/A
 A: Fe, Mn, As, Sb, Ba, Be, Cd, Cr, Cu, Pb, Ni, Ag, Ti, Mg, K
 B:
 Notes: (i.e., Special Detection Limits, Billing Info, if Different)
 Trip blank(s) prepared by EAI.
 Bill GSL.
 *Report 1,4-dioxane to 0.25 ug/l RL
 *Hold Final report until EQUIS EDD
 Site History: _____
 Suspected Contamination: _____
 Field Readings: _____



25 Chenell Drive | Concord, NH 03301 | Tel: 603.228.0525 | 1.800.287.0525 | Fax: 603.228.4591 | E-Mail: customerservice@eailabs.com | www.eailabs.com

Appendix K.5

September 2021 Analytical Laboratory Reports

Tim White
Sanborn, Head & Associates, Inc. (NH)
20 Foundry Street
Concord, NH 03301



Laboratory Report for:

Eastern Analytical, Inc. ID: 232165
Client Identification: Dalton | Groundwater | 1003.20
Date Received: 9/16/2021

Enclosed are the analytical results per the Chain of Custody for sample(s) in the referenced project. All analyses were performed in accordance with our QA/QC Program, NELAP and other applicable state requirements. All quality control criteria was within acceptance criteria unless noted on the report pages. Results are for the exclusive use of the client named on this report and will not be released to a third party without consent.

The following information is contained within this report: Sample Conditions summary, Analytical Results/Data, Quality Control data (if requested) and copies of the Chain of Custody. This report may not be reproduced except in full, without the written approval of the laboratory.

The following standard abbreviations and conventions apply to all EAI reports:

- < : "less than" followed by the reporting limit
- > : "greater than" followed by the reporting limit
- %R : % Recovery

Certifications:

Eastern Analytical, Inc. maintains certification in the following states: Connecticut (PH-0492), Maine (NH005), Massachusetts (M-NH005), New Hampshire/NELAP (1012), Rhode Island (269), Vermont (VT1012), New York (12072), West Virginia (9910C) and Alabama (41620). Please refer to our website at www.easternanalytical.com for a copy of our certificates and accredited parameters.

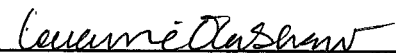
References:

- EPA 600/4-79-020, 1983
- Standard Methods for Examination of Water and Wastewater, 20th, 21st, 22nd & 23rd edition or noted revision year.
- Test Methods for Evaluating Solid Waste SW 846 3rd Edition including updates IVA and IVB
- Hach Water Analysis Handbook, 4th edition, 1992

If you have any questions regarding the results contained within, please feel free to contact customer service. Unless otherwise requested, we will dispose of the sample(s) 6 weeks from the sample receipt date.

We appreciate this opportunity to be of service and look forward to your continued patronage.

Sincerely,


Lorraine Olashaw, Lab Director

10.5.21
Date



SAMPLE CONDITIONS PAGE

EAI ID#: 232165

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Dalton | Groundwater | 1003.20**

Temperature upon receipt (°C): 2.2

Received on ice or cold packs (Yes/No): Y

Acceptable temperature range (°C): 0-6

Lab ID	Sample ID	Date Received	Date/Time Sampled	Sample Matrix	% Dry Weight	Exceptions/Comments (other than thermal preservation)
232165.01	MW-14_20210915	9/16/21	9/15/21 08:42	aqueous		Adheres to Sample Acceptance Policy
232165.02	MW-27R_20210915	9/16/21	9/15/21 10:05	aqueous		Adheres to Sample Acceptance Policy
232165.03	MW-35R_20210915	9/16/21	9/15/21 10:55	aqueous		Adheres to Sample Acceptance Policy
232165.04	MW-36R_20210915	9/16/21	9/15/21 12:22	aqueous		Adheres to Sample Acceptance Policy
232165.05	MW-37R_20210915	9/16/21	9/15/21 13:00	aqueous		Adheres to Sample Acceptance Policy
232165.06	MW-38R_20210915	9/16/21	9/15/21 14:15	aqueous		Adheres to Sample Acceptance Policy
232165.07	TB-GW-01_20210915	9/16/21	9/15/21 17:00	aqueous		Adheres to Sample Acceptance Policy
232165.08	TB-LL-GW-01_20210915	9/16/21	9/15/21 17:00	aqueous		Adheres to Sample Acceptance Policy

All results contained in this report relate only to the above listed samples.

Unless otherwise noted:

- Hold times, preservation, container types, and sample conditions adhered to EPA Protocol.
- Solid samples are reported on a dry weight basis, unless otherwise noted. pH/Corrosivity, Flashpoint, Ignitability, Paint Filter, Conductivity and Specific Gravity are always reported on an "as received" basis.
- Analysis of pH, Total Residual Chlorine, Dissolved Oxygen and Sulfite were performed at the laboratory outside of the recommended 15 minute hold time.
- Samples collected by Eastern Analytical, Inc. (EAI) were collected in accordance with approved EPA procedures.



LABORATORY REPORT

EAI ID#: 232165

Client: Sanborn, Head & Associates, Inc. (NH)

Client Designation: Dalton | Groundwater | 1003.20

Sample ID:	MW-14_20210915	MW-27R_20210915	MW-35R_20210915	MW-36R_20210915
Lab Sample ID:	232165.01	232165.02	232165.03	232165.04
Matrix:	aqueous	aqueous	aqueous	aqueous
Date Sampled:	9/15/21	9/15/21	9/15/21	9/15/21
Date Received:	9/16/21	9/16/21	9/16/21	9/16/21
Units:	ug/L	ug/L	ug/L	ug/L
Date of Analysis:	9/17/21	9/17/21	9/17/21	9/17/21
Analyst:	AM	AM	AM	AM
Method:	8260C	8260C	8260C	8260C
Dilution Factor:	1	1	1	1
Dichlorodifluoromethane	< 2	< 2	< 2	< 2
Chloromethane	< 2	< 2	< 2	< 2
Vinyl chloride	< 1	< 1	< 1	< 1
Bromomethane	< 2	< 2	< 2	< 2
Chloroethane	< 2	< 2	< 2	< 2
Trichlorofluoromethane	< 2	< 2	< 2	< 2
Diethyl Ether	< 2	< 2	< 2	< 2
Acetone	< 10	< 10	< 10	< 10
1,1-Dichloroethene	< 0.5	< 0.5	< 0.5	< 0.5
tert-Butyl Alcohol (TBA)	< 30	< 30	< 30	< 30
Methylene chloride	< 1	< 1	< 1	< 1
Carbon disulfide	< 2	< 2	< 2	< 2
Methyl-t-butyl ether(MTBE)	< 1	< 1	< 1	< 1
Ethyl-t-butyl ether(ETBE)	< 2	< 2	< 2	< 2
Isopropyl ether(DIPE)	< 2	< 2	< 2	< 2
tert-amyl methyl ether(TAME)	< 2	< 2	< 2	< 2
trans-1,2-Dichloroethene	< 1	< 1	< 1	< 1
1,1-Dichloroethane	< 1	< 1	< 1	< 1
2,2-Dichloropropane	< 1	< 1	< 1	< 1
cis-1,2-Dichloroethene	< 1	< 1	< 1	< 1
2-Butanone(MEK)	< 10	< 10	< 10	< 10
Bromochloromethane	< 1	< 1	< 1	< 1
Tetrahydrofuran(THF)	< 10	< 10	< 10	< 10
Chloroform	< 1	< 1	< 1	< 1
1,1,1-Trichloroethane	< 1	< 1	< 1	< 1
Carbon tetrachloride	< 1	< 1	< 1	< 1
1,1-Dichloropropene	< 1	< 1	< 1	< 1
Benzene	< 1	< 1	< 1	< 1
1,2-Dichloroethane	< 1	< 1	< 1	< 1
Trichloroethene	< 1	< 1	< 1	< 1
1,2-Dichloropropane	< 1	< 1	< 1	< 1
Dibromomethane	< 1	< 1	< 1	< 1
Bromodichloromethane	< 0.5	< 0.5	< 0.5	< 0.5
1,4-Dioxane	< 50	< 50	< 50	< 50
4-Methyl-2-pentanone(MIBK)	< 10	< 10	< 10	< 10
cis-1,3-Dichloropropene	< 0.5	< 0.5	< 0.5	< 0.5
Toluene	< 1	< 1	< 1	< 1
trans-1,3-Dichloropropene	< 0.5	< 0.5	< 0.5	< 0.5
1,1,2-Trichloroethane	< 1	< 1	< 1	< 1
2-Hexanone	< 10	< 10	< 10	< 10
Tetrachloroethene	< 1	< 1	< 1	< 1
1,3-Dichloropropane	< 1	< 1	< 1	< 1
Dibromochloromethane	< 1	< 1	< 1	< 1
1,2-Dibromoethane(EDB)	< 0.5	< 0.5	< 0.5	< 0.5
Chlorobenzene	< 1	< 1	< 1	< 1
1,1,1,2-Tetrachloroethane	< 1	< 1	< 1	< 1



LABORATORY REPORT

EAI ID#: 232165

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Dalton | Groundwater | 1003.20**

Sample ID:	MW-14_20210915	MW-27R_20210915	MW-35R_20210915	MW-36R_20210915
Lab Sample ID:	232165.01	232165.02	232165.03	232165.04
Matrix:	aqueous	aqueous	aqueous	aqueous
Date Sampled:	9/15/21	9/15/21	9/15/21	9/15/21
Date Received:	9/16/21	9/16/21	9/16/21	9/16/21
Units:	ug/L	ug/L	ug/L	ug/L
Date of Analysis:	9/17/21	9/17/21	9/17/21	9/17/21
Analyst:	AM	AM	AM	AM
Method:	8260C	8260C	8260C	8260C
Dilution Factor:	1	1	1	1
Ethylbenzene	< 1	< 1	< 1	< 1
mp-Xylene	< 1	< 1	< 1	< 1
o-Xylene	< 1	< 1	< 1	< 1
Styrene	< 1	< 1	< 1	< 1
Bromoform	< 2	< 2	< 2	< 2
IsoPropylbenzene	< 1	< 1	< 1	< 1
Bromobenzene	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	< 1	< 1	< 1	< 1
1,2,3-Trichloropropane	< 0.5	< 0.5	< 0.5	< 0.5
n-Propylbenzene	< 1	< 1	< 1	< 1
2-Chlorotoluene	< 1	< 1	< 1	< 1
4-Chlorotoluene	< 1	< 1	< 1	< 1
1,3,5-Trimethylbenzene	< 1	< 1	< 1	< 1
tert-Butylbenzene	< 1	< 1	< 1	< 1
1,2,4-Trimethylbenzene	< 1	< 1	< 1	< 1
sec-Butylbenzene	< 1	< 1	< 1	< 1
1,3-Dichlorobenzene	< 1	< 1	< 1	< 1
p-Isopropyltoluene	< 1	< 1	< 1	< 1
1,4-Dichlorobenzene	< 1	< 1	< 1	< 1
1,2-Dichlorobenzene	< 1	< 1	< 1	< 1
n-Butylbenzene	< 1	< 1	< 1	< 1
1,2-Dibromo-3-chloropropane	< 2	< 2	< 2	< 2
1,3,5-Trichlorobenzene	< 1	< 1	< 1	< 1
1,2,4-Trichlorobenzene	< 1	< 1	< 1	< 1
Hexachlorobutadiene	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	< 2	< 2	< 2	< 2
1,2,3-Trichlorobenzene	< 0.5	< 0.5	< 0.5	< 0.5
4-Bromofluorobenzene (surr)	105 %R	104 %R	105 %R	107 %R
1,2-Dichlorobenzene-d4 (surr)	104 %R	103 %R	104 %R	104 %R
Toluene-d8 (surr)	96 %R	94 %R	95 %R	98 %R
1,2-Dichloroethane-d4 (surr)	104 %R	105 %R	105 %R	106 %R



LABORATORY REPORT

EAI ID#: 232165

Client: Sanborn, Head & Associates, Inc. (NH)

Client Designation: Dalton | Groundwater | 1003.20

Sample ID: MW-37R_20210915 MW-38R_20210915 TB-GW-01_20210915

Lab Sample ID:	232165.05	232165.06	232165.07
Matrix:	aqueous	aqueous	aqueous
Date Sampled:	9/15/21	9/15/21	9/15/21
Date Received:	9/16/21	9/16/21	9/16/21
Units:	ug/L	ug/L	ug/L
Date of Analysis:	9/17/21	9/17/21	9/17/21
Analyst:	AM	AM	AM
Method:	8260C	8260C	8260C
Dilution Factor:	1	1	1

Dichlorodifluoromethane	< 2	< 2	< 2
Chloromethane	< 2	< 2	< 2
Vinyl chloride	< 1	< 1	< 1
Bromomethane	< 2	< 2	< 2
Chloroethane	< 2	< 2	< 2
Trichlorofluoromethane	< 2	< 2	< 2
Diethyl Ether	< 2	< 2	< 2
Acetone	< 10	< 10	< 10
1,1-Dichloroethene	< 0.5	< 0.5	< 0.5
tert-Butyl Alcohol (TBA)	< 30	< 30	< 30
Methylene chloride	< 1	< 1	< 1
Carbon disulfide	< 2	< 2	< 2
Methyl-t-butyl ether(MTBE)	< 1	< 1	< 1
Ethyl-t-butyl ether(ETBE)	< 2	< 2	< 2
Isopropyl ether(DIPE)	< 2	< 2	< 2
tert-amyl methyl ether(TAME)	< 2	< 2	< 2
trans-1,2-Dichloroethene	< 1	< 1	< 1
1,1-Dichloroethane	< 1	< 1	< 1
2,2-Dichloropropane	< 1	< 1	< 1
cis-1,2-Dichloroethene	< 1	< 1	< 1
2-Butanone(MEK)	< 10	< 10	< 10
Bromochloromethane	< 1	< 1	< 1
Tetrahydrofuran(THF)	< 10	< 10	< 10
Chloroform	< 1	< 1	< 1
1,1,1-Trichloroethane	< 1	< 1	< 1
Carbon tetrachloride	< 1	< 1	< 1
1,1-Dichloropropene	< 1	< 1	< 1
Benzene	< 1	< 1	< 1
1,2-Dichloroethane	< 1	< 1	< 1
Trichloroethene	< 1	< 1	< 1
1,2-Dichloropropane	< 1	< 1	< 1
Dibromomethane	< 1	< 1	< 1
Bromodichloromethane	< 0.5	< 0.5	< 0.5
1,4-Dioxane	< 50	< 50	< 50
4-Methyl-2-pentanone(MIBK)	< 10	< 10	< 10
cis-1,3-Dichloropropene	< 0.5	< 0.5	< 0.5
Toluene	< 1	< 1	< 1
trans-1,3-Dichloropropene	< 0.5	< 0.5	< 0.5
1,1,2-Trichloroethane	< 1	< 1	< 1
2-Hexanone	< 10	< 10	< 10
Tetrachloroethene	< 1	< 1	< 1
1,3-Dichloropropane	< 1	< 1	< 1
Dibromochloromethane	< 1	< 1	< 1
1,2-Dibromoethane(EDB)	< 0.5	< 0.5	< 0.5
Chlorobenzene	< 1	< 1	< 1
1,1,1,2-Tetrachloroethane	< 1	< 1	< 1



LABORATORY REPORT

EAI ID#: 232165

Client: Sanborn, Head & Associates, Inc. (NH)

Client Designation: Dalton | Groundwater | 1003.20

Sample ID: MW-37R_20210915 MW-38R_20210915 TB-GW-01_20210915

Lab Sample ID:	232165.05	232165.06	232165.07
Matrix:	aqueous	aqueous	aqueous
Date Sampled:	9/15/21	9/15/21	9/15/21
Date Received:	9/16/21	9/16/21	9/16/21
Units:	ug/L	ug/L	ug/L
Date of Analysis:	9/17/21	9/17/21	9/17/21
Analyst:	AM	AM	AM
Method:	8260C	8260C	8260C
Dilution Factor:	1	1	1
Ethylbenzene	< 1	< 1	< 1
mp-Xylene	< 1	< 1	< 1
o-Xylene	< 1	< 1	< 1
Styrene	< 1	< 1	< 1
Bromoform	< 2	< 2	< 2
IsoPropylbenzene	< 1	< 1	< 1
Bromobenzene	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	< 1	< 1	< 1
1,2,3-Trichloropropane	< 0.5	< 0.5	< 0.5
n-Propylbenzene	< 1	< 1	< 1
2-Chlorotoluene	< 1	< 1	< 1
4-Chlorotoluene	< 1	< 1	< 1
1,3,5-Trimethylbenzene	< 1	< 1	< 1
tert-Butylbenzene	< 1	< 1	< 1
1,2,4-Trimethylbenzene	< 1	< 1	< 1
sec-Butylbenzene	< 1	< 1	< 1
1,3-Dichlorobenzene	< 1	< 1	< 1
p-Isopropyltoluene	< 1	< 1	< 1
1,4-Dichlorobenzene	< 1	< 1	< 1
1,2-Dichlorobenzene	< 1	< 1	< 1
n-Butylbenzene	< 1	< 1	< 1
1,2-Dibromo-3-chloropropane	< 2	< 2	< 2
1,3,5-Trichlorobenzene	< 1	< 1	< 1
1,2,4-Trichlorobenzene	< 1	< 1	< 1
Hexachlorobutadiene	< 0.5	< 0.5	< 0.5
Naphthalene	< 2	< 2	< 2
1,2,3-Trichlorobenzene	< 0.5	< 0.5	< 0.5
4-Bromofluorobenzene (surr)	105 %R	107 %R	104 %R
1,2-Dichlorobenzene-d4 (surr)	105 %R	106 %R	104 %R
Toluene-d8 (surr)	94 %R	96 %R	97 %R
1,2-Dichloroethane-d4 (surr)	105 %R	108 %R	103 %R



QC REPORT

EAI ID#: **232165**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Batch ID: 637674-95122/A091721V82601

Client Designation: **Dalton | Groundwater | 1003.20**

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
Dichlorodifluoromethane	< 2	26 (130 %R)	26 (130 %R) (0 RPD)	9/17/2021	ug/L	40 - 160	20	8260C
Chloromethane	< 2	30 (150 %R)	30 (148 %R) (1 RPD)	9/17/2021	ug/L	40 - 160	20	8260C
Vinyl chloride	< 1	* 29 (146 %R)	* 28 (142 %R) (3 RPD)	9/17/2021	ug/L	70 - 130	20	8260C
Bromomethane	< 2	21 (103 %R)	22 (108 %R) (5 RPD)	9/17/2021	ug/L	40 - 160	20	8260C
Chloroethane	< 2	* 29 (144 %R)	* 28 (142 %R) (1 RPD)	9/17/2021	ug/L	70 - 130	20	8260C
Trichlorofluoromethane	< 2	25 (127 %R)	25 (126 %R) (1 RPD)	9/17/2021	ug/L	70 - 130	20	8260C
Diethyl Ether	< 2	23 (113 %R)	23 (116 %R) (2 RPD)	9/17/2021	ug/L	70 - 130	20	8260C
Acetone	< 10	18 (91 %R)	19 (96 %R) (5 RPD)	9/17/2021	ug/L	40 - 160	20	8260C
1,1-Dichloroethene	< 0.5	23 (116 %R)	23 (117 %R) (1 RPD)	9/17/2021	ug/L	70 - 130	20	8260C
tert-Butyl Alcohol (TBA)	< 30	99 (99 %R)	110 (106 %R) (7 RPD)	9/17/2021	ug/L	70 - 130	20	8260C
Methylene chloride	< 1	22 (111 %R)	22 (110 %R) (1 RPD)	9/17/2021	ug/L	70 - 130	20	8260C
Carbon disulfide	< 2	21 (106 %R)	21 (103 %R) (2 RPD)	9/17/2021	ug/L	70 - 130	20	8260C
Methyl-t-butyl ether(MTBE)	< 1	21 (106 %R)	22 (109 %R) (2 RPD)	9/17/2021	ug/L	70 - 130	20	8260C
Ethyl-t-butyl ether(ETBE)	< 2	22 (112 %R)	23 (114 %R) (1 RPD)	9/17/2021	ug/L	70 - 130	20	8260C
Isopropyl ether(DIPE)	< 2	23 (116 %R)	23 (117 %R) (1 RPD)	9/17/2021	ug/L	70 - 130	20	8260C
tert-amyl methyl ether(TAME)	< 2	22 (110 %R)	22 (112 %R) (2 RPD)	9/17/2021	ug/L	70 - 130	20	8260C
trans-1,2-Dichloroethene	< 1	23 (117 %R)	23 (116 %R) (1 RPD)	9/17/2021	ug/L	70 - 130	20	8260C
1,1-Dichloroethane	< 1	24 (118 %R)	24 (118 %R) (0 RPD)	9/17/2021	ug/L	70 - 130	20	8260C
2,2-Dichloropropane	< 1	22 (112 %R)	22 (112 %R) (0 RPD)	9/17/2021	ug/L	70 - 130	20	8260C
cis-1,2-Dichloroethene	< 1	23 (117 %R)	23 (115 %R) (2 RPD)	9/17/2021	ug/L	70 - 130	20	8260C
2-Butanone(MEK)	< 10	18 (89 %R)	19 (96 %R) (7 RPD)	9/17/2021	ug/L	40 - 160	20	8260C
Bromochloromethane	< 1	23 (114 %R)	23 (114 %R) (0 RPD)	9/17/2021	ug/L	70 - 130	20	8260C
Tetrahydrofuran(THF)	< 10	19 (95 %R)	20 (101 %R) (5 RPD)	9/17/2021	ug/L	70 - 130	20	8260C
Chloroform	< 1	23 (113 %R)	23 (114 %R) (1 RPD)	9/17/2021	ug/L	70 - 130	20	8260C
1,1,1-Trichloroethane	< 1	22 (111 %R)	22 (112 %R) (1 RPD)	9/17/2021	ug/L	70 - 130	20	8260C
Carbon tetrachloride	< 1	22 (108 %R)	22 (109 %R) (1 RPD)	9/17/2021	ug/L	70 - 130	20	8260C
1,1-Dichloropropene	< 1	22 (110 %R)	22 (111 %R) (1 RPD)	9/17/2021	ug/L	70 - 130	20	8260C
Benzene	< 1	24 (118 %R)	24 (119 %R) (0 RPD)	9/17/2021	ug/L	70 - 130	20	8260C
1,2-Dichloroethane	< 1	22 (112 %R)	23 (114 %R) (2 RPD)	9/17/2021	ug/L	70 - 130	20	8260C
Trichloroethene	< 1	23 (113 %R)	23 (113 %R) (0 RPD)	9/17/2021	ug/L	70 - 130	20	8260C
1,2-Dichloropropane	< 1	23 (117 %R)	23 (117 %R) (0 RPD)	9/17/2021	ug/L	70 - 130	20	8260C
Dibromomethane	< 1	22 (110 %R)	22 (111 %R) (1 RPD)	9/17/2021	ug/L	70 - 130	20	8260C
Bromodichloromethane	< 0.5	23 (114 %R)	23 (114 %R) (0 RPD)	9/17/2021	ug/L	70 - 130	20	8260C
1,4-Dioxane	< 50	< 50 (92 %R)	< 50 (97 %R) (5 RPD)	9/17/2021	ug/L	40 - 160	20	8260C
4-Methyl-2-pentanone(MIBK)	< 10	19 (95 %R)	20 (101 %R) (6 RPD)	9/17/2021	ug/L	40 - 160	20	8260C
cis-1,3-Dichloropropene	< 0.5	22 (111 %R)	22 (111 %R) (0 RPD)	9/17/2021	ug/L	70 - 130	20	8260C
Toluene	< 1	21 (104 %R)	21 (105 %R) (1 RPD)	9/17/2021	ug/L	70 - 130	20	8260C
trans-1,3-Dichloropropene	< 0.5	20 (99 %R)	20 (100 %R) (1 RPD)	9/17/2021	ug/L	70 - 130	20	8260C
1,1,2-Trichloroethane	< 1	20 (99 %R)	20 (101 %R) (2 RPD)	9/17/2021	ug/L	70 - 130	20	8260C
2-Hexanone	< 10	17 (85 %R)	18 (91 %R) (7 RPD)	9/17/2021	ug/L	40 - 160	20	8260C
Tetrachloroethene	< 1	19 (97 %R)	19 (97 %R) (0 RPD)	9/17/2021	ug/L	70 - 130	20	8260C
1,3-Dichloropropane	< 1	20 (102 %R)	21 (104 %R) (3 RPD)	9/17/2021	ug/L	70 - 130	20	8260C
Dibromochloromethane	< 1	16 (82 %R)	17 (83 %R) (1 RPD)	9/17/2021	ug/L	70 - 130	20	8260C
1,2-Dibromoethane(EDB)	< 0.5	19 (94 %R)	19 (97 %R) (3 RPD)	9/17/2021	ug/L	70 - 130	20	8260C
Chlorobenzene	< 1	20 (102 %R)	21 (103 %R) (1 RPD)	9/17/2021	ug/L	70 - 130	20	8260C
1,1,1,2-Tetrachloroethane	< 1	19 (95 %R)	19 (96 %R) (1 RPD)	9/17/2021	ug/L	70 - 130	20	8260C



QC REPORT

EAI ID#: **232165**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Batch ID: 637674-95122/A091721V82601

Client Designation: **Dalton | Groundwater | 1003.20**

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
Ethylbenzene	< 1	21 (105 %R)	21 (106 %R) (1 RPD)	9/17/2021	ug/L	70 - 130	20	8260C
mp-Xylene	< 1	42 (104 %R)	42 (105 %R) (1 RPD)	9/17/2021	ug/L	70 - 130	20	8260C
o-Xylene	< 1	21 (107 %R)	21 (107 %R) (1 RPD)	9/17/2021	ug/L	70 - 130	20	8260C
Styrene	< 1	23 (116 %R)	23 (117 %R) (1 RPD)	9/17/2021	ug/L	70 - 130	20	8260C
Bromoform	< 2	15 (77 %R)	16 (78 %R) (2 RPD)	9/17/2021	ug/L	70 - 130	20	8260C
IsoPropylbenzene	< 1	21 (104 %R)	21 (105 %R) (1 RPD)	9/17/2021	ug/L	70 - 130	20	8260C
Bromobenzene	< 1	19 (97 %R)	20 (100 %R) (3 RPD)	9/17/2021	ug/L	70 - 130	20	8260C
1,1,2,2-Tetrachloroethane	< 1	18 (88 %R)	19 (94 %R) (7 RPD)	9/17/2021	ug/L	70 - 130	20	8260C
1,2,3-Trichloropropane	< 0.5	17 (87 %R)	19 (93 %R) (7 RPD)	9/17/2021	ug/L	70 - 130	20	8260C
n-Propylbenzene	< 1	20 (102 %R)	21 (104 %R) (2 RPD)	9/17/2021	ug/L	70 - 130	20	8260C
2-Chlorotoluene	< 1	20 (102 %R)	21 (105 %R) (3 RPD)	9/17/2021	ug/L	70 - 130	20	8260C
4-Chlorotoluene	< 1	20 (102 %R)	21 (104 %R) (2 RPD)	9/17/2021	ug/L	70 - 130	20	8260C
1,3,5-Trimethylbenzene	< 1	20 (100 %R)	21 (103 %R) (3 RPD)	9/17/2021	ug/L	70 - 130	20	8260C
tert-Butylbenzene	< 1	20 (98 %R)	20 (100 %R) (2 RPD)	9/17/2021	ug/L	70 - 130	20	8260C
1,2,4-Trimethylbenzene	< 1	21 (103 %R)	21 (105 %R) (2 RPD)	9/17/2021	ug/L	70 - 130	20	8260C
sec-Butylbenzene	< 1	21 (104 %R)	21 (105 %R) (1 RPD)	9/17/2021	ug/L	70 - 130	20	8260C
1,3-Dichlorobenzene	< 1	20 (99 %R)	20 (101 %R) (1 RPD)	9/17/2021	ug/L	70 - 130	20	8260C
p-Isopropyltoluene	< 1	20 (101 %R)	20 (101 %R) (1 RPD)	9/17/2021	ug/L	70 - 130	20	8260C
1,4-Dichlorobenzene	< 1	20 (99 %R)	20 (100 %R) (1 RPD)	9/17/2021	ug/L	70 - 130	20	8260C
1,2-Dichlorobenzene	< 1	20 (98 %R)	20 (100 %R) (2 RPD)	9/17/2021	ug/L	70 - 130	20	8260C
n-Butylbenzene	< 1	20 (99 %R)	20 (100 %R) (1 RPD)	9/17/2021	ug/L	70 - 130	20	8260C
1,2-Dibromo-3-chloropropane	< 2	15 (73 %R)	16 (80 %R) (9 RPD)	9/17/2021	ug/L	70 - 130	20	8260C
1,3,5-Trichlorobenzene	< 1	18 (88 %R)	18 (91 %R) (3 RPD)	9/17/2021	ug/L	70 - 130	20	8260C
1,2,4-Trichlorobenzene	< 1	16 (79 %R)	17 (86 %R) (8 RPD)	9/17/2021	ug/L	70 - 130	20	8260C
Hexachlorobutadiene	< 0.5	15 (77 %R)	16 (79 %R) (2 RPD)	9/17/2021	ug/L	70 - 130	20	8260C
Naphthalene	< 2	15 (77 %R)	18 (90 %R) (15 RPD)	9/17/2021	ug/L	70 - 130	20	8260C
1,2,3-Trichlorobenzene	< 0.5	15 (74 %R)	17 (85 %R) (15 RPD)	9/17/2021	ug/L	70 - 130	20	8260C
4-Bromofluorobenzene (surr)	103 %R	106 %R	106 %R	9/17/2021	% Rec	70 - 130	20	8260C
1,2-Dichlorobenzene-d4 (surr)	104 %R	101 %R	103 %R	9/17/2021	% Rec	70 - 130	20	8260C
Toluene-d8 (surr)	94 %R	95 %R	96 %R	9/17/2021	% Rec	70 - 130	20	8260C

*! Flagged analyte recoveries deviated from the QA/QC limits. Data that impacts sample results are noted on the sample report.



LABORATORY REPORT

EAI ID#: 232165

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Dalton | Groundwater | 1003.20**

Sample ID:	MW-14_20210915	MW-27R_20210915	MW-35R_20210915	MW-36R_20210915
Lab Sample ID:	232165.01	232165.02	232165.03	232165.04
Matrix:	aqueous	aqueous	aqueous	aqueous
Date Sampled:	9/15/21	9/15/21	9/15/21	9/15/21
Date Received:	9/16/21	9/16/21	9/16/21	9/16/21
Units:	ug/L	ug/L	ug/L	ug/L
Date of Analysis:	9/17/21	9/17/21	9/17/21	9/18/21
Analyst:	AM	AM	AM	AM
Method:	8260B SIM	8260B SIM	8260B SIM	8260B SIM
Dilution Factor:	1	1	1	1
1,4-Dioxane	< 0.25	< 0.25	< 0.25	< 0.25
4-Bromofluorobenzene (surr)	101 %R	100 %R	101 %R	100 %R
Toluene-d8 (surr)	101 %R	101 %R	101 %R	101 %R



LABORATORY REPORT

EAI ID#: 232165

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Dalton | Groundwater | 1003.20**

Sample ID: MW-37R_20210915 MW-38R_20210915 TB-LL-GW-01_20210915

Lab Sample ID:	232165.05	232165.06	232165.08
Matrix:	aqueous	aqueous	aqueous
Date Sampled:	9/15/21	9/15/21	9/15/21
Date Received:	9/16/21	9/16/21	9/16/21
Units:	ug/L	ug/L	ug/L
Date of Analysis:	9/18/21	9/18/21	9/17/21
Analyst:	AM	AM	AM
Method:	8260B SIM	8260B SIM	8260B SIM
Dilution Factor:	1	1	1
1,4-Dioxane	< 0.25	< 0.25	< 0.25
4-Bromofluorobenzene (surr)	101 %R	98 %R	99 %R
Toluene-d8 (surr)	101 %R	98 %R	101 %R



QC REPORT

EAI ID#: **232165**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Batch ID: 637674-93681/A091721DIOX1

Client Designation: **Dalton | Groundwater | 1003.20**

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
1,4-Dioxane	< 0.2	4.4 (87 %R)	4.6 (92 %R) (5 RPD)	9/17/2021	ug/L	70 - 130	20	8260B
4-Bromofluorobenzene (surr)	101 %R	100 %R	102 %R	9/17/2021	% Rec	70 - 130	50	8260B
Toluene-d8 (surr)	101 %R	101 %R	101 %R	9/17/2021	% Rec	70 - 130	50	8260B

*! Flagged analyte recoveries deviated from the QA/QC limits. Data that impacts sample results are noted on the sample report.



LABORATORY REPORT

EAI ID#: **232165**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Dalton | Groundwater | 1003.20**

Sample ID:	MW-14_20210915	MW-27R_20210915	MW-35R_20210915	MW-36R_20210915
Lab Sample ID:	232165.01	232165.02	232165.03	232165.04
Matrix:	aqueous	aqueous	aqueous	aqueous
Date Sampled:	9/15/21	9/15/21	9/15/21	9/15/21
Date Received:	9/16/21	9/16/21	9/16/21	9/16/21
Units:	ug/L	ug/L	ug/L	ug/L
Date of Extraction/Prep:	9/17/21	9/17/21	9/17/21	9/17/21
Date of Analysis:	9/20/21	9/20/21	9/20/21	9/20/21
Analyst:	JMR	JMR	JMR	JMR
Method:	8270D	8270D	8270D	8270D
Dilution Factor:	1	1	1	1
alpha-Terpineol	< 5	< 5	< 5	< 5
Phenol	< 1	< 1	< 1	< 1
2-Chlorophenol	< 1	< 1	< 1	< 1
2,4-Dichlorophenol	< 1	< 1	< 1	< 1
2,4,5-Trichlorophenol	< 1	< 1	< 1	< 1
2,4,6-Trichlorophenol	< 1	< 1	< 1	< 1
Pentachlorophenol	< 5	< 5	< 5	< 5
2-Nitrophenol	< 5	< 5	< 5	< 5
4-Nitrophenol	< 5	< 5	< 5	< 5
2,4-Dinitrophenol	< 10	< 10	< 10	< 10
2-Methylphenol	< 1	< 1	< 1	< 1
3/4-Methylphenol	< 1	< 1	< 1	< 1
2,4-Dimethylphenol	< 5	< 5	< 5	< 5
4-Chloro-3-methylphenol	< 1	< 1	< 1	< 1
4,6-Dinitro-2-methylphenol	< 5	< 5	< 5	< 5
Benzoic Acid	< 50	< 50	< 50	< 50
N-Nitrosodimethylamine	< 1	< 1	< 1	< 1
n-Nitroso-di-n-propylamine	< 0.5	< 0.5	< 0.5	< 0.5
n-Nitrosodiphenylamine	< 1	< 1	< 1	< 1
bis(2-Chloroethyl)ether	< 1	< 1	< 1	< 1
bis(2-chloroisopropyl)ether	< 1	< 1	< 1	< 1
bis(2-Chloroethoxy)methane	< 1	< 1	< 1	< 1
1,3-Dichlorobenzene	< 1	< 1	< 1	< 1
Acetophenone	< 10	< 10	< 10	< 10
1,4-Dichlorobenzene	< 1	< 1	< 1	< 1
1,2-Dichlorobenzene	< 1	< 1	< 1	< 1
1,2,4-Trichlorobenzene	< 1	< 1	< 1	< 1
2-Chloronaphthalene	< 1	< 1	< 1	< 1
4-Chlorophenyl-phenylether	< 1	< 1	< 1	< 1
4-Bromophenyl-phenylether	< 1	< 1	< 1	< 1
Hexachloroethane	< 1	< 1	< 1	< 1
Hexachlorobutadiene	< 1	< 1	< 1	< 1
Hexachlorocyclopentadiene	< 5	< 5	< 5	< 5
Hexachlorobenzene	< 1	< 1	< 1	< 1
4-Chloroaniline	< 1	< 1	< 1	< 1
2,3-Dichloroaniline	< 1	< 1	< 1	< 1
2-Nitroaniline	< 5	< 5	< 5	< 5
3-Nitroaniline	< 5	< 5	< 5	< 5
4-Nitroaniline	< 5	< 5	< 5	< 5
Aniline	< 1	< 1	< 1	< 1
Benzyl alcohol	< 10	< 10	< 10	< 10
Nitrobenzene	< 1	< 1	< 1	< 1
Isophorone	< 1	< 1	< 1	< 1
2,4-Dinitrotoluene	< 2	< 2	< 2	< 2
2,6-Dinitrotoluene	< 2	< 2	< 2	< 2
Benzidine (estimated)	< 5	< 5	< 5	< 5
3,3'-Dichlorobenzidine	< 1	< 1	< 1	< 1



LABORATORY REPORT

EAI ID#: **232165**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Dalton | Groundwater | 1003.20**

Sample ID:	MW-14_20210915	MW-27R_20210915	MW-35R_20210915	MW-36R_20210915
Lab Sample ID:	232165.01	232165.02	232165.03	232165.04
Matrix:	aqueous	aqueous	aqueous	aqueous
Date Sampled:	9/15/21	9/15/21	9/15/21	9/15/21
Date Received:	9/16/21	9/16/21	9/16/21	9/16/21
Units:	ug/L	ug/L	ug/L	ug/L
Date of Extraction/Prep:	9/17/21	9/17/21	9/17/21	9/17/21
Date of Analysis:	9/20/21	9/20/21	9/20/21	9/20/21
Analyst:	JMR	JMR	JMR	JMR
Method:	8270D	8270D	8270D	8270D
Dilution Factor:	1	1	1	1
Pyridine	< 5	< 5	< 5	< 5
Azobenzene	< 1	< 1	< 1	< 1
Carbazole	< 1	< 1	< 1	< 1
Dimethylphthalate	< 1	< 1	< 1	< 1
Diethylphthalate	< 5	< 5	< 5	< 5
Di-n-butylphthalate	< 5	< 5	< 5	< 5
Butylbenzylphthalate	< 5	< 5	< 5	< 5
bis(2-Ethylhexyl)phthalate	< 5	< 5	< 5	< 5
Di-n-octylphthalate	< 5	< 5	< 5	< 5
Dibenzofuran	< 1	< 1	< 1	< 1
Naphthalene	< 0.1	< 0.1	< 0.1	< 0.1
2-Methylnaphthalene	< 0.1	< 0.1	< 0.1	< 0.1
1-Methylnaphthalene	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthene	< 0.1	< 0.1	< 0.1	< 0.1
Fluorene	< 0.1	< 0.1	< 0.1	< 0.1
Phenanthrene	< 0.1	< 0.1	< 0.1	< 0.1
Anthracene	< 0.1	< 0.1	< 0.1	< 0.1
Fluoranthene	< 0.1	< 0.1	0.19	< 0.1
Pyrene	< 0.1	< 0.1	< 0.1	< 0.1
Benzo[a]anthracene	< 0.1	< 0.1	< 0.1	< 0.1
Chrysene	< 0.1	< 0.1	< 0.1	< 0.1
Benzo[b]fluoranthene	< 0.1	< 0.1	< 0.1	< 0.1
Benzo[k]fluoranthene	< 0.1	< 0.1	< 0.1	< 0.1
Benzo[a]pyrene	< 0.1	< 0.1	< 0.1	< 0.1
Indeno[1,2,3-cd]pyrene	< 0.1	< 0.1	< 0.1	< 0.1
Dibenz[a,h]anthracene	< 0.1	< 0.1	< 0.1	< 0.1
Benzo[g,h,i]perylene	< 0.1	< 0.1	< 0.1	< 0.1
n-Decane	< 5	< 5	< 5	< 5
n-Octadecane	< 5	< 5	< 5	< 5
2-Fluorophenol (surr)	39 %R	34 %R	37 %R	43 %R
Phenol-d6 (surr)	26 %R	22 %R	26 %R	29 %R
2,4,6-Tribromophenol (surr)	84 %R	82 %R	83 %R	92 %R
Nitrobenzene-D5 (surr)	75 %R	76 %R	69 %R	81 %R
2-Fluorobiphenyl (surr)	79 %R	80 %R	74 %R	84 %R
p-Terphenyl-D14 (surr)	89 %R	74 %R	73 %R	91 %R



LABORATORY REPORT

EAI ID#: 232165

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Dalton | Groundwater | 1003.20**

Sample ID: MW-37R_20210915 MW-38R_20210915

Lab Sample ID:	232165.05	232165.06
Matrix:	aqueous	aqueous
Date Sampled:	9/15/21	9/15/21
Date Received:	9/16/21	9/16/21
Units:	ug/L	ug/L
Date of Extraction/Prep:	9/17/21	9/17/21
Date of Analysis:	9/20/21	9/20/21
Analyst:	JMR	JMR
Method:	8270D	8270D
Dilution Factor:	1	1
alpha-Terpineol	< 5	< 5
Phenol	< 1	< 1
2-Chlorophenol	< 1	< 1
2,4-Dichlorophenol	< 1	< 1
2,4,5-Trichlorophenol	< 1	< 1
2,4,6-Trichlorophenol	< 1	< 1
Pentachlorophenol	< 5	< 5
2-Nitrophenol	< 5	< 5
4-Nitrophenol	< 5	< 5
2,4-Dinitrophenol	< 10	< 10
2-Methylphenol	< 1	< 1
3/4-Methylphenol	< 1	< 1
2,4-Dimethylphenol	< 5	< 5
4-Chloro-3-methylphenol	< 1	< 1
4,6-Dinitro-2-methylphenol	< 5	< 5
Benzoic Acid	< 50	< 50
N-Nitrosodimethylamine	< 1	< 1
n-Nitroso-di-n-propylamine	< 0.5	< 0.5
n-Nitrosodiphenylamine	< 1	< 1
bis(2-Chloroethyl)ether	< 1	< 1
bis(2-chloroisopropyl)ether	< 1	< 1
bis(2-Chloroethoxy)methane	< 1	< 1
1,3-Dichlorobenzene	< 1	< 1
Acetophenone	< 10	< 10
1,4-Dichlorobenzene	< 1	< 1
1,2-Dichlorobenzene	< 1	< 1
1,2,4-Trichlorobenzene	< 1	< 1
2-Chloronaphthalene	< 1	< 1
4-Chlorophenyl-phenylether	< 1	< 1
4-Bromophenyl-phenylether	< 1	< 1
Hexachloroethane	< 1	< 1
Hexachlorobutadiene	< 1	< 1
Hexachlorocyclopentadiene	< 5	< 5
Hexachlorobenzene	< 1	< 1
4-Chloroaniline	< 1	< 1
2,3-Dichloroaniline	< 1	< 1
2-Nitroaniline	< 5	< 5
3-Nitroaniline	< 5	< 5
4-Nitroaniline	< 5	< 5
Aniline	< 1	< 1
Benzyl alcohol	< 10	< 10
Nitrobenzene	< 1	< 1
Isophorone	< 1	< 1
2,4-Dinitrotoluene	< 2	< 2
2,6-Dinitrotoluene	< 2	< 2
Benzidine (estimated)	< 5	< 5
3,3'-Dichlorobenzidine	< 1	< 1



LABORATORY REPORT

EAI ID#: **232165**

Client: **Sanborn, Head & Associates, Inc. (NH)**
 Client Designation: **Dalton | Groundwater | 1003.20**

Sample ID: MW-37R_20210915 MW-38R_20210915

Lab Sample ID:	232165.05	232165.06
Matrix:	aqueous	aqueous
Date Sampled:	9/15/21	9/15/21
Date Received:	9/16/21	9/16/21
Units:	ug/L	ug/L
Date of Extraction/Prep:	9/17/21	9/17/21
Date of Analysis:	9/20/21	9/20/21
Analyst:	JMR	JMR
Method:	8270D	8270D
Dilution Factor:	1	1
Pyridine	< 5	< 5
Azobenzene	< 1	< 1
Carbazole	< 1	< 1
Dimethylphthalate	< 1	< 1
Diethylphthalate	< 5	< 5
Di-n-butylphthalate	< 5	< 5
Butylbenzylphthalate	< 5	< 5
bis(2-Ethylhexyl)phthalate	< 5	< 5
Di-n-octylphthalate	< 5	< 5
Dibenzofuran	< 1	< 1
Naphthalene	< 0.1	< 0.1
2-Methylnaphthalene	< 0.1	< 0.1
1-Methylnaphthalene	< 0.1	< 0.1
Acenaphthylene	< 0.1	< 0.1
Acenaphthene	< 0.1	< 0.1
Fluorene	< 0.1	< 0.1
Phenanthrene	< 0.1	< 0.1
Anthracene	< 0.1	< 0.1
Fluoranthene	< 0.1	< 0.1
Pyrene	< 0.1	< 0.1
Benzo[a]anthracene	< 0.1	< 0.1
Chrysene	< 0.1	< 0.1
Benzo[b]fluoranthene	< 0.1	< 0.1
Benzo[k]fluoranthene	< 0.1	< 0.1
Benzo[a]pyrene	< 0.1	< 0.1
Indeno[1,2,3-cd]pyrene	< 0.1	< 0.1
Dibenz[a,h]anthracene	< 0.1	< 0.1
Benzo[g,h,i]perylene	< 0.1	< 0.1
n-Decane	< 5	< 5
n-Octadecane	< 5	< 5
2-Fluorophenol (surr)	41 %R	39 %R
Phenol-d6 (surr)	28 %R	26 %R
2,4,6-Tribromophenol (surr)	88 %R	90 %R
Nitrobenzene-D5 (surr)	75 %R	78 %R
2-Fluorobiphenyl (surr)	81 %R	80 %R
p-Terphenyl-D14 (surr)	72 %R	61 %R



QC REPORT

EAI ID#: 232165

Client: **Sanborn, Head & Associates, Inc. (NH)**

Batch ID: 637674-65858/A091721ABN1

Client Designation: **Dalton | Groundwater | 1003.20**

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
alpha-Terpineol	< 5	20 (80 %R)	20 (79 %R) (1 RPD)	9/20/2021	ug/L	40 - 140	20	8270D
Phenol	< 1	15 (30 %R)	15 (29 %R) (1 RPD)	9/20/2021	ug/L	15 - 130	20	8270D
2-Chlorophenol	< 1	38 (76 %R)	36 (73 %R) (4 RPD)	9/20/2021	ug/L	30 - 130	20	8270D
2,4-Dichlorophenol	< 1	43 (86 %R)	42 (84 %R) (2 RPD)	9/20/2021	ug/L	30 - 130	20	8270D
2,4,5-Trichlorophenol	< 1	42 (83 %R)	42 (84 %R) (1 RPD)	9/20/2021	ug/L	30 - 130	20	8270D
2,4,6-Trichlorophenol	< 1	41 (82 %R)	42 (83 %R) (2 RPD)	9/20/2021	ug/L	30 - 130	20	8270D
Pentachlorophenol	< 5	40 (80 %R)	42 (84 %R) (5 RPD)	9/20/2021	ug/L	30 - 130	20	8270D
2-Nitrophenol	< 5	41 (81 %R)	40 (80 %R) (2 RPD)	9/20/2021	ug/L	30 - 130	20	8270D
4-Nitrophenol	< 5	17 (33 %R)	18 (35 %R) (5 RPD)	9/20/2021	ug/L	15 - 130	20	8270D
2,4-Dinitrophenol	< 10	44 (88 %R)	46 (92 %R) (5 RPD)	9/20/2021	ug/L	15 - 130	20	8270D
2-Methylphenol	< 1	36 (71 %R)	35 (70 %R) (2 RPD)	9/20/2021	ug/L	30 - 130	20	8270D
3/4-Methylphenol	< 1	35 (71 %R)	35 (70 %R) (2 RPD)	9/20/2021	ug/L	30 - 130	20	8270D
2,4-Dimethylphenol	< 5	41 (82 %R)	40 (80 %R) (3 RPD)	9/20/2021	ug/L	30 - 130	20	8270D
4-Chloro-3-methylphenol	< 1	42 (85 %R)	43 (85 %R) (1 RPD)	9/20/2021	ug/L	30 - 130	20	8270D
4,6-Dinitro-2-methylphenol	< 5	43 (86 %R)	45 (89 %R) (4 RPD)	9/20/2021	ug/L	30 - 130	20	8270D
Benzoic Acid	< 50	< 50 (29 %R)	< 50 (37 %R) (24 RPD) !	9/20/2021	ug/L	15 - 130	20	8270D
N-Nitrosodimethylamine	< 1	12 (47 %R)	12 (47 %R) (0 RPD)	9/20/2021	ug/L	15 - 140	20	8270D
n-Nitroso-di-n-propylamine	< 0.5	20 (82 %R)	20 (79 %R) (4 RPD)	9/20/2021	ug/L	40 - 140	20	8270D
n-Nitrosodiphenylamine	< 1	20 (80 %R)	21 (82 %R) (3 RPD)	9/20/2021	ug/L	40 - 140	20	8270D
bis(2-Chloroethyl)ether	< 1	19 (74 %R)	18 (71 %R) (4 RPD)	9/20/2021	ug/L	40 - 140	20	8270D
bis(2-chloroisopropyl)ether	< 1	19 (75 %R)	18 (71 %R) (5 RPD)	9/20/2021	ug/L	40 - 140	20	8270D
bis(2-Chloroethoxy)methane	< 1	20 (79 %R)	19 (76 %R) (4 RPD)	9/20/2021	ug/L	40 - 140	20	8270D
1,3-Dichlorobenzene	< 1	15 (59 %R)	15 (58 %R) (2 RPD)	9/20/2021	ug/L	40 - 140	20	8270D
Acetophenone	< 10	20 (81 %R)	19 (77 %R) (4 RPD)	9/20/2021	ug/L	40 - 140	20	8270D
1,4-Dichlorobenzene	< 1	15 (60 %R)	15 (59 %R) (2 RPD)	9/20/2021	ug/L	40 - 140	20	8270D
1,2-Dichlorobenzene	< 1	16 (62 %R)	15 (61 %R) (3 RPD)	9/20/2021	ug/L	40 - 140	20	8270D
1,2,4-Trichlorobenzene	< 1	17 (66 %R)	16 (63 %R) (5 RPD)	9/20/2021	ug/L	40 - 140	20	8270D
2-Chloronaphthalene	< 1	19 (76 %R)	19 (74 %R) (2 RPD)	9/20/2021	ug/L	40 - 140	20	8270D
4-Chlorophenyl-phenylether	< 1	20 (79 %R)	20 (80 %R) (1 RPD)	9/20/2021	ug/L	40 - 140	20	8270D
4-Bromophenyl-phenylether	< 1	20 (79 %R)	20 (81 %R) (2 RPD)	9/20/2021	ug/L	40 - 140	20	8270D
Hexachloroethane	< 1	15 (60 %R)	15 (59 %R) (2 RPD)	9/20/2021	ug/L	40 - 140	20	8270D
Hexachlorobutadiene	< 1	16 (62 %R)	15 (58 %R) (6 RPD)	9/20/2021	ug/L	40 - 140	20	8270D
Hexachlorocyclopentadiene	< 5	14 (55 %R)	14 (54 %R) (2 RPD)	9/20/2021	ug/L	15 - 140	20	8270D
Hexachlorobenzene	< 1	19 (78 %R)	20 (80 %R) (3 RPD)	9/20/2021	ug/L	40 - 140	20	8270D
4-Chloroaniline	< 1	19 (77 %R)	19 (77 %R) (0 RPD)	9/20/2021	ug/L	15 - 140	20	8270D
2,3-Dichloroaniline	< 1	20 (78 %R)	19 (78 %R) (1 RPD)	9/20/2021	ug/L	40 - 140	20	8270D
2-Nitroaniline	< 5	20 (78 %R)	20 (81 %R) (3 RPD)	9/20/2021	ug/L	40 - 140	20	8270D
3-Nitroaniline	< 5	20 (80 %R)	21 (82 %R) (2 RPD)	9/20/2021	ug/L	40 - 140	20	8270D
4-Nitroaniline	< 5	21 (85 %R)	22 (86 %R) (1 RPD)	9/20/2021	ug/L	40 - 140	20	8270D
Aniline	< 1	17 (68 %R)	17 (68 %R) (1 RPD)	9/20/2021	ug/L	40 - 140	20	8270D
Benzyl alcohol	< 10	17 (67 %R)	17 (67 %R) (0 RPD)	9/20/2021	ug/L	40 - 140	20	8270D
Nitrobenzene	< 1	19 (78 %R)	18 (74 %R) (5 RPD)	9/20/2021	ug/L	40 - 140	20	8270D
Isophorone	< 1	20 (81 %R)	20 (79 %R) (1 RPD)	9/20/2021	ug/L	40 - 140	20	8270D
2,4-Dinitrotoluene	< 2	21 (85 %R)	22 (88 %R) (3 RPD)	9/20/2021	ug/L	40 - 140	20	8270D
2,6-Dinitrotoluene	< 2	21 (85 %R)	22 (86 %R) (2 RPD)	9/20/2021	ug/L	40 - 140	20	8270D
Benzidine (estimated)	< 5	16 (63 %R)	16 (63 %R) (0 RPD)	9/20/2021	ug/L	1 - 200	50	8270D



QC REPORT

EAI ID#: 232165

Client: **Sanborn, Head & Associates, Inc. (NH)**

Batch ID: 637674-65858/A091721ABN1

Client Designation: **Dalton | Groundwater | 1003.20**

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
3,3'-Dichlorobenzidine	< 1	20 (81 %R)	21 (83 %R) (2 RPD)	9/20/2021	ug/L	40 - 140	20	8270D
Pyridine	< 5	8.5 (34 %R)	8.5 (34 %R) (0 RPD)	9/20/2021	ug/L	15 - 140	20	8270D
Azobenzene	< 1	21 (84 %R)	21 (86 %R) (2 RPD)	9/20/2021	ug/L	40 - 140	20	8270D
Carbazole	< 1	21 (86 %R)	22 (87 %R) (1 RPD)	9/20/2021	ug/L	40 - 140	20	8270D
Dimethylphthalate	< 1	21 (85 %R)	21 (85 %R) (1 RPD)	9/20/2021	ug/L	40 - 140	20	8270D
Diethylphthalate	< 5	21 (82 %R)	21 (83 %R) (1 RPD)	9/20/2021	ug/L	40 - 140	20	8270D
Di-n-butylphthalate	< 5	23 (92 %R)	23 (93 %R) (1 RPD)	9/20/2021	ug/L	40 - 140	20	8270D
Butylbenzylphthalate	< 5	21 (83 %R)	21 (82 %R) (2 RPD)	9/20/2021	ug/L	40 - 140	20	8270D
bis(2-Ethylhexyl)phthalate	< 5	21 (83 %R)	21 (83 %R) (1 RPD)	9/20/2021	ug/L	40 - 140	20	8270D
Di-n-octylphthalate	< 5	22 (86 %R)	22 (87 %R) (1 RPD)	9/20/2021	ug/L	40 - 140	20	8270D
Dibenzofuran	< 1	20 (81 %R)	20 (81 %R) (0 RPD)	9/20/2021	ug/L	40 - 140	20	8270D
Naphthalene	< 0.1	19 (78 %R)	18 (74 %R) (6 RPD)	9/20/2021	ug/L	40 - 140	20	8270D
2-Methylnaphthalene	< 0.1	20 (78 %R)	19 (75 %R) (4 RPD)	9/20/2021	ug/L	40 - 140	20	8270D
1-Methylnaphthalene	< 0.1	20 (79 %R)	19 (76 %R) (4 RPD)	9/20/2021	ug/L	40 - 140	20	8270D
Acenaphthylene	< 0.1	21 (84 %R)	21 (83 %R) (1 RPD)	9/20/2021	ug/L	40 - 140	20	8270D
Acenaphthene	< 0.1	22 (90 %R)	22 (89 %R) (1 RPD)	9/20/2021	ug/L	40 - 140	20	8270D
Fluorene	< 0.1	21 (84 %R)	21 (84 %R) (1 RPD)	9/20/2021	ug/L	40 - 140	20	8270D
Phenanthrene	< 0.1	22 (87 %R)	22 (89 %R) (3 RPD)	9/20/2021	ug/L	40 - 140	20	8270D
Anthracene	< 0.1	22 (88 %R)	23 (91 %R) (2 RPD)	9/20/2021	ug/L	40 - 140	20	8270D
Fluoranthene	< 0.1	23 (92 %R)	23 (93 %R) (1 RPD)	9/20/2021	ug/L	40 - 140	20	8270D
Pyrene	< 0.1	23 (90 %R)	23 (92 %R) (2 RPD)	9/20/2021	ug/L	40 - 140	20	8270D
Benzo[a]anthracene	< 0.1	21 (86 %R)	22 (86 %R) (1 RPD)	9/20/2021	ug/L	40 - 140	20	8270D
Chrysene	< 0.1	22 (89 %R)	23 (90 %R) (1 RPD)	9/20/2021	ug/L	40 - 140	20	8270D
Benzo[b]fluoranthene	< 0.1	22 (89 %R)	23 (91 %R) (2 RPD)	9/20/2021	ug/L	40 - 140	20	8270D
Benzo[k]fluoranthene	< 0.1	23 (92 %R)	23 (92 %R) (0 RPD)	9/20/2021	ug/L	40 - 140	20	8270D
Benzo[a]pyrene	< 0.1	22 (88 %R)	22 (89 %R) (1 RPD)	9/20/2021	ug/L	40 - 140	20	8270D
Indeno[1,2,3-cd]pyrene	< 0.1	22 (88 %R)	22 (89 %R) (1 RPD)	9/20/2021	ug/L	40 - 140	20	8270D
Dibenz[a,h]anthracene	< 0.1	22 (89 %R)	23 (93 %R) (4 RPD)	9/20/2021	ug/L	40 - 140	20	8270D
Benzo[g,h,i]perylene	< 0.1	22 (89 %R)	22 (90 %R) (1 RPD)	9/20/2021	ug/L	40 - 140	20	8270D
n-Decane	< 5	13 (53 %R)	13 (51 %R) (5 RPD)	9/20/2021	ug/L	40 - 140	20	8270D
n-Octadecane	< 5	21 (84 %R)	22 (87 %R) (3 RPD)	9/20/2021	ug/L	40 - 140	20	8270D
2-Fluorophenol (surr)	41 %R	42 %R	40 %R	9/20/2021	% Rec	15 - 110		8270D
Phenol-d6 (surr)	28 %R	28 %R	28 %R	9/20/2021	% Rec	15 - 110		8270D
2,4,6-Tribromophenol (surr)	83 %R	84 %R	87 %R	9/20/2021	% Rec	15 - 110		8270D
Nitrobenzene-D5 (surr)	75 %R	78 %R	74 %R	9/20/2021	% Rec	30 - 130		8270D
2-Fluorobiphenyl (surr)	81 %R	78 %R	75 %R	9/20/2021	% Rec	30 - 130		8270D
p-Terphenyl-D14 (surr)	91 %R	86 %R	87 %R	9/20/2021	% Rec	30 - 130		8270D

*! Flagged analyte recoveries deviated from the QA/QC limits. Data that impacts sample results are noted on the sample report.



LABORATORY REPORT

EAI ID#: **232165**

Client: **Sanborn, Head & Associates, Inc. (NH)**
 Client Designation: **Dalton | Groundwater | 1003.20**

Sample ID:	MW-14_20210915	MW-27R_20210915	MW-35R_20210915	MW-36R_20210915
Lab Sample ID:	232165.01	232165.02	232165.03	232165.04
Matrix:	aqueous	aqueous	aqueous	aqueous
Date Sampled:	9/15/21	9/15/21	9/15/21	9/15/21
Date Received:	9/16/21	9/16/21	9/16/21	9/16/21
Units:	ug/L	ug/L	ug/L	ug/L
Date of Extraction/Prep:	9/22/21	9/22/21	9/22/21	9/22/21
Date of Analysis:	9/22/21	9/22/21	9/22/21	9/22/21
Analyst:	AR	AR	AR	AR
Method:	8011/504	8011/504	8011/504	8011/504
Dilution Factor:	1	1	1	1
1,2-Dibromoethane(EDB)	< 0.02	< 0.02	< 0.02	< 0.02
Dibromochloropropane (DBCP)	< 0.02	< 0.02	< 0.02	< 0.02
1,1,1,2-Tetrachloroethane (surr)	89 %R	98 %R	99 %R	100 %R



LABORATORY REPORT

EAI ID#: 232165

Client: **Sanborn, Head & Associates, Inc. (NH)**
Client Designation: **Dalton | Groundwater | 1003.20**

Sample ID:	MW-37R_20210915	MW-38R_20210915
Lab Sample ID:	232165.05	232165.06
Matrix:	aqueous	aqueous
Date Sampled:	9/15/21	9/15/21
Date Received:	9/16/21	9/16/21
Units:	ug/L	ug/L
Date of Extraction/Prep:	9/22/21	9/22/21
Date of Analysis:	9/22/21	9/22/21
Analyst:	AR	AR
Method:	8011/504	8011/504
Dilution Factor:	1	1
1,2-Dibromoethane(EDB)	< 0.02	< 0.02
Dibromochloropropane (DBCP)	< 0.02	< 0.02
1,1,1,2-Tetrachloroethane (surr)	100 %R	97 %R



QC REPORT

EAI ID#: **232165**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Batch ID: 637678-96625/A092221E5041

Client Designation: **Dalton | Groundwater | 1003.20**

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
1,2-Dibromoethane(EDB)	< 0.02	0.094 (94 %R)	0.10 (102 %R) (8 RPD)	9/22/2021	ug/L	70 - 130	20	8011/504
Dibromochloropropane (DBCP)	< 0.02	0.095 (95 %R)	0.10 (103 %R) (8 RPD)	9/22/2021	ug/L	70 - 130	20	8011/504
1,1,1,2-Tetrachloroethane (surr)	99 %R	97 %R	105 %R	9/22/2021	% Rec	65 - 135	20	8011/504

*/! Flagged analyte recoveries deviated from the QA/QC limits. Data that impacts sample results are noted on the sample report.



LABORATORY REPORT

EAI ID#: **232165**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Dalton | Groundwater | 1003.20**

Sample ID:	MW-14_20210915	MW -27R_2021091	MW -35R_2021091	MW -36R_2021091	Units	Analysis			Analyst
	232165.01	5 232165.02	5 232165.03	5 232165.04		Date	Time	Method	
Lab Sample ID:	232165.01	232165.02	232165.03	232165.04					
Matrix:	aqueous	aqueous	aqueous	aqueous					
Date Sampled:	9/15/21	9/15/21	9/15/21	9/15/21					
Date Received:	9/16/21	9/16/21	9/16/21	9/16/21					
Sulfate	4.3	13	5.4	4	mg/L	09/20/21	22:29	300.0	LLG
Chloride	< 1	< 1	< 1	< 1	mg/L	09/20/21	23:29	300.0	LLG
Nitrate-N	< 0.5	< 0.5	< 0.5	0.66	mg/L	09/16/21	12:28	353.2	KD
TKN	< 0.5	< 10	< 10	< 0.5	mg/L	09/27/21	18:33	4500N _{org} C/NH3D	KEF
COD	< 10	0.94	1.1	< 10	mg/L	09/16/21	16:00	H8000	JCS
Dissolved Organic Carbon	5.2	< 0.5	< 0.5	1.0	mg/L	09/21/21	12:00	5310C-00	LO

Sample ID:	MW-37R_20210915	MW -38R_2021091	Units	Analysis			Analyst
	232165.05	5 232165.06		Date	Time	Method	
Lab Sample ID:	232165.05	232165.06					
Matrix:	aqueous	aqueous					
Date Sampled:	9/15/21	9/15/21					
Date Received:	9/16/21	9/16/21					
Sulfate	4.3	53	mg/L	09/21/21	0:14	300.0	LLG
Chloride	< 1	7.2	mg/L	09/21/21	0:14	300.0	LLG
Nitrate-N	< 0.5	< 0.5	mg/L	09/16/21	12:47	353.2	KD
TKN	< 0.5	< 0.5	mg/L	09/27/21	18:44	4500N _{org} C/NH3D	KEF
COD	< 10	16	mg/L	09/16/21	16:00	H8000	JCS
Dissolved Organic Carbon	1.0	6.7	mg/L	09/21/21	12:54	5310C-00	LO

MW-27R_20210915 and MW-35R_20210915: TKN was analyzed on 09/29/2021.



QC REPORT

EAI ID#: 232165

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Dalton | Groundwater | 1003.20**

Parameter Name	Blank	LCS	LCSD	Units	Date of Analysis	Limits	RPD	Method
Sulfate	< 1	21 (105 %R)	20 (101 %R) (4 RPD)	mg/L	9/21/21	90 - 110	20	300.0
Chloride	< 1	21 (103 %R)	20 (100 %R) (3 RPD)	mg/L	9/20/21	90 - 110	20	300.0
Nitrate-N	< 0.5	5.0 (101 %R)	5.1 (102 %R) (1 RPD)	mg/L	9/16/21	90 - 110	20	353.2
TKN	< 0.5	10 (101 %R)	10 (104 %R) (3 RPD)	mg/L	9/27/21	90 - 111	20	4500N _{org} C/NH3D-11
TKN	< 0.5	10 (101 %R)	9.7 (97 %R) (4 RPD)	mg/L	9/29/21	90 - 111	20	4500N _{org} C/NH3D-11
COD	< 10	98 (98 %R)	99 (99 %R) (1 RPD)	mg/L	9/16/21	85 - 115	20	H8000
Dissolved Organic Carbon	< 0.5	9.4 (94 %R)	9.3 (93 %R) (1 RPD)	mg/L	9/21/21	90 - 110	20	5310C-00

*! Flagged analyte recoveries deviated from the QA/QC limits. Unless noted, flagged data does not impact the sample data.



LABORATORY REPORT

EAI ID#: 232165

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Dalton | Groundwater | 1003.20**

Sample ID:	MW-14_20210915	MW -27R_20210915	MW -35R_20210915	MW -36R_20210915					
Lab Sample ID:	232165.01	232165.02	232165.03	232165.04	Matrix	Units	Date of Analysis	Method	Analyst
Matrix:	aqueous	aqueous	aqueous	aqueous					
Date Sampled:	9/15/21	9/15/21	9/15/21	9/15/21					
Date Received:	9/16/21	9/16/21	9/16/21	9/16/21					
Antimony	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	9/16/21	200.8	DS
Arsenic	0.0025	0.00064	< 0.0005	< 0.0005	AqDis	mg/L	9/16/21	200.8	DS
Barium	0.058	0.040	0.011	0.099	AqDis	mg/L	9/16/21	200.8	DS
Beryllium	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	9/16/21	200.8	DS
Cadmium	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	9/16/21	200.8	DS
Chromium	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	9/16/21	200.8	DS
Copper	< 0.001	0.0034	0.0032	< 0.001	AqDis	mg/L	9/16/21	200.8	DS
Iron	4.6	< 0.05	< 0.05	< 0.05	AqDis	mg/L	9/16/21	200.8	DS
Lead	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	9/16/21	200.8	DS
Magnesium	1.5	2.1	0.41	1.9	AqDis	mg/L	9/16/21	200.8	DS
Manganese	0.93	0.036	0.053	< 0.005	AqDis	mg/L	9/16/21	200.8	DS
Mercury	< 0.0001	< 0.0001	< 0.0001	< 0.0001	AqDis	mg/L	9/16/21	200.8	DS
Nickel	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	9/16/21	200.8	DS
Potassium	1.2	1.2	0.79	0.43	AqDis	mg/L	9/16/21	200.8	DS
Silver	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	9/16/21	200.8	DS
Thallium	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	9/16/21	200.8	DS
Antimony	< 0.001	< 0.001	< 0.001	< 0.001	AqTot	mg/L	9/20/21	200.8	DS
Arsenic	0.0024	0.0095	0.015	< 0.0005	AqTot	mg/L	9/20/21	200.8	DS
Barium	0.070	1.7	0.82	0.11	AqTot	mg/L	9/20/21	200.8	DS
Beryllium	< 0.001	0.0049	0.0050	< 0.001	AqTot	mg/L	9/20/21	200.8	DS
Cadmium	< 0.001	< 0.001	< 0.001	< 0.001	AqTot	mg/L	9/20/21	200.8	DS
Chromium	0.0026	0.096	0.088	< 0.001	AqTot	mg/L	9/20/21	200.8	DS
Copper	0.0072	0.36	0.059	< 0.001	AqTot	mg/L	9/20/21	200.8	DS
Iron	5.0	75	62	0.30	AqTot	mg/L	9/20/21	200.8	DS
Lead	0.0022	0.059	0.091	< 0.001	AqTot	mg/L	9/20/21	200.8	DS
Magnesium	1.5	20	8.2	1.9	AqTot	mg/L	9/20/21	200.8	DS
Manganese	0.71	14	1.8	0.016	AqTot	mg/L	9/20/21	200.8	DS
Mercury	< 0.0001	0.00038	< 0.0001	< 0.0001	AqTot	mg/L	9/20/21	200.8	DS
Nickel	0.0016	0.088	0.028	< 0.001	AqTot	mg/L	9/20/21	200.8	DS
Potassium	1.2	14	11	0.49	AqTot	mg/L	9/20/21	200.8	DS
Silver	< 0.001	< 0.001	< 0.001	< 0.001	AqTot	mg/L	9/20/21	200.8	DS
Thallium	< 0.001	< 0.001	< 0.001	< 0.001	AqTot	mg/L	9/20/21	200.8	DS



LABORATORY REPORT

EAI ID#: 232165

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Dalton | Groundwater | 1003.20**

Sample ID:	MW-37R_20210915	MW-38R_20210915				
Lab Sample ID:	232165.05	232165.06	Matrix:	aqueous	aqueous	
Date Sampled:	9/15/21	9/15/21	Analytical Matrix			Units
Date Received:	9/16/21	9/16/21	Date of Analysis			Method
			Analyst			
Antimony	0.0019	< 0.001	AqDis	mg/L	9/16/21	200.8 DS
Arsenic	0.00062	0.0026	AqDis	mg/L	9/16/21	200.8 DS
Barium	0.020	0.019	AqDis	mg/L	9/16/21	200.8 DS
Beryllium	< 0.001	< 0.001	AqDis	mg/L	9/16/21	200.8 DS
Cadmium	< 0.001	< 0.001	AqDis	mg/L	9/16/21	200.8 DS
Chromium	< 0.001	< 0.001	AqDis	mg/L	9/16/21	200.8 DS
Copper	0.0032	0.0067	AqDis	mg/L	9/16/21	200.8 DS
Iron	0.24	< 0.05	AqDis	mg/L	9/16/21	200.8 DS
Lead	< 0.001	< 0.001	AqDis	mg/L	9/16/21	200.8 DS
Magnesium	0.80	1.2	AqDis	mg/L	9/16/21	200.8 DS
Manganese	0.12	0.11	AqDis	mg/L	9/16/21	200.8 DS
Mercury	< 0.0001	< 0.0001	AqDis	mg/L	9/16/21	200.8 DS
Nickel	< 0.001	0.0011	AqDis	mg/L	9/16/21	200.8 DS
Potassium	1.7	1.6	AqDis	mg/L	9/16/21	200.8 DS
Silver	< 0.001	< 0.001	AqDis	mg/L	9/16/21	200.8 DS
Thallium	< 0.001	< 0.001	AqDis	mg/L	9/16/21	200.8 DS
Antimony	< 0.001	< 0.001	AqTot	mg/L	9/20/21	200.8 DS
Arsenic	0.010	0.0067	AqTot	mg/L	9/20/21	200.8 DS
Barium	1.5	0.24	AqTot	mg/L	9/20/21	200.8 DS
Beryllium	0.0050	0.0020	AqTot	mg/L	9/20/21	200.8 DS
Cadmium	< 0.001	< 0.001	AqTot	mg/L	9/20/21	200.8 DS
Chromium	0.16	0.044	AqTot	mg/L	9/20/21	200.8 DS
Copper	0.065	0.028	AqTot	mg/L	9/20/21	200.8 DS
Iron	77	30	AqTot	mg/L	9/20/21	200.8 DS
Lead	0.077	0.026	AqTot	mg/L	9/20/21	200.8 DS
Magnesium	18	8.4	AqTot	mg/L	9/20/21	200.8 DS
Manganese	2.1	0.79	AqTot	mg/L	9/20/21	200.8 DS
Mercury	< 0.0001	< 0.0001	AqTot	mg/L	9/20/21	200.8 DS
Nickel	0.046	0.018	AqTot	mg/L	9/20/21	200.8 DS
Potassium	20	9.8	AqTot	mg/L	9/20/21	200.8 DS
Silver	< 0.001	< 0.001	AqTot	mg/L	9/20/21	200.8 DS
Thallium	0.0012	< 0.001	AqTot	mg/L	9/20/21	200.8 DS



QC REPORT

EAI ID#: 232165

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Dalton | Groundwater | 1003.20**

Parameter Name	Blank	LCS	LCSD	Units	Date of Analysis	Limits	RPD	Method
Antimony	< 0.001	1.1 (114 %R)		NA mg/L	9/20/21	85 - 115	20	200.8
Arsenic	< 0.0005	1.1 (109 %R)		NA mg/L	9/20/21	85 - 115	20	200.8
Barium	< 0.001	1.1 (110 %R)		NA mg/L	9/20/21	85 - 115	20	200.8
Beryllium	< 0.001	0.99 (99 %R)		NA mg/L	9/20/21	85 - 115	20	200.8
Cadmium	< 0.001	1.1 (107 %R)		NA mg/L	9/20/21	85 - 115	20	200.8
Chromium	< 0.001	1.1 (105 %R)		NA mg/L	9/20/21	85 - 115	20	200.8
Copper	< 0.001	1.1 (107 %R)		NA mg/L	9/20/21	85 - 115	20	200.8
Iron	< 0.05	11 (97 %R)		NA mg/L	9/20/21	85 - 115	20	200.8
Lead	< 0.001	1.1 (106 %R)		NA mg/L	9/20/21	85 - 115	20	200.8
Magnesium	< 0.05	11 (102 %R)		NA mg/L	9/20/21	85 - 115	20	200.8
Manganese	< 0.005	1.0 (100 %R)		NA mg/L	9/20/21	85 - 115	20	200.8
Mercury	< 0.0001	0.0011 (112 %R)		NA mg/L	9/20/21	85 - 115	20	200.8
Nickel	< 0.001	1.0 (105 %R)		NA mg/L	9/20/21	85 - 115	20	200.8
Potassium	< 0.05	11 (101 %R)		NA mg/L	9/20/21	85 - 115	20	200.8
Silver	< 0.001	0.010 (105 %R)		NA mg/L	9/20/21	85 - 115	20	200.8
Thallium	< 0.001	1.1 (105 %R)		NA mg/L	9/20/21	85 - 115	20	200.8

Metals Aqueous Total QC

*! Flagged analyte recoveries deviated from the QA/QC limits. Unless noted, flagged data does not impact the sample data.



QC REPORT

EAI ID#: 232165

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Dalton | Groundwater | 1003.20**

Parameter Name	Blank	LCS	LCSD	Units	Date of Analysis	Limits	RPD	Method
Antimony	< 0.001	0.21 (103 %R)	NA	mg/L	9/16/21	85 - 115	20	200.8
Arsenic	< 0.0005	0.21 (103 %R)	NA	mg/L	9/16/21	85 - 115	20	200.8
Barium	< 0.001	0.20 (102 %R)	NA	mg/L	9/16/21	85 - 115	20	200.8
Beryllium	< 0.001	0.22 (111 %R)	NA	mg/L	9/16/21	85 - 115	20	200.8
Cadmium	< 0.001	0.21 (103 %R)	NA	mg/L	9/16/21	85 - 115	20	200.8
Chromium	< 0.001	0.21 (103 %R)	NA	mg/L	9/16/21	85 - 115	20	200.8
Copper	< 0.001	0.20 (101 %R)	NA	mg/L	9/16/21	85 - 115	20	200.8
Iron	< 0.05	11 (103 %R)	NA	mg/L	9/16/21	85 - 115	20	200.8
Lead	< 0.001	0.20 (99 %R)	NA	mg/L	9/16/21	85 - 115	20	200.8
Magnesium	< 0.05	10 (102 %R)	NA	mg/L	9/16/21	85 - 115	20	200.8
Manganese	< 0.005	0.21 (103 %R)	NA	mg/L	9/16/21	85 - 115	20	200.8
Mercury	< 0.0001	0.0010 (101 %R)	NA	mg/L	9/16/21	85 - 115	20	200.8
Nickel	< 0.001	0.20 (102 %R)	NA	mg/L	9/16/21	85 - 115	20	200.8
Potassium	< 0.05	11 (105 %R)	NA	mg/L	9/16/21	85 - 115	20	200.8
Silver	< 0.001	0.18 (91 %R)	NA	mg/L	9/16/21	85 - 115	20	200.8
Thallium	< 0.001	0.20 (100 %R)	NA	mg/L	9/16/21	85 - 115	20	200.8

Metals Aqueous Dissolved QC

*! Flagged analyte recoveries deviated from the QA/QC limits. Unless noted, flagged data does not impact the sample data.

Chain-of-Custody Record

232165

Sample ID	Sampling Date/Time *If Composite, Indicate Both Start & Finish Date/Time	Matrix (see below)	Grab/*Composite	Analyses Requested																# of Containers	NOTES MeOH Vial #						
				VOCs - EPA 8260C	Low Level 1,4-Dioxane (USEPA 8260B-SM)	Low Level ED9/BBCP (504.1)	SVOCs (EPA 8270D)	COD (SM 8220D)	DOC (5310C)	Chloride, Nitrate, Sulfate (EPA 300.0)	TKN (SM 4500Norg/C/NH3D)	Dissolved Metals List A (EPA 200.8)	Total Metals List A (EPA 200.8)														
MW-14_20210915	9/15/21 0842	GW	G	X	X	X	X	X	X	X	X	X	X														12
27R	1005	GW	G																								
35R	1055	GW	G																								
36R	1222	GW	G																								
37R	1300	GW	G																								
38R	1415	GW	G	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
TB-GW-01	1700	GW	G	↓																							2
TB-LL-GW-01 ↓	1700 ↓	GW	G		X																						2
		GW	G																								
		GW	G																								
Matrix: A-Air; S-Soil; GW-Ground Water; SW-Surface Water; DW-Drinking Water; WW-Waste Water; AQ-Aqueous Preservative: H-HCl; N-HNO3; S-H2SO4; Na-NaOH; M-MeOH; NSO-Na2S2O3				H	Ice	NSO	Ice	S	Ice	S	S	N	N														

Project Manager: T. White
 Company: Sanborn, Head & Associates, Inc.
 Address: 20 Foundry Street
 City: Concord State: NH Zip: 03301
 Phone 603-229-1900 Ext.:
 Fax: 603-229-1919
 E-Mail: twhite@sanbornhead.com
 Site Name: Dalton | Groundwater
 Project # 1003.20
 State: NH
 Regulatory Program: NPDES: RGP POTW Stormwater or GWP, Oil Fund, Brownfield or Other.
 Quote #: PO#:

Date Needed: Standard TAT
 Temp. 22 °C
 Ice? Yes No
 QA/QC
 Reporting Level: A B C
 or Presumptive Certainty
 Reporting Options:
 Prelims: Yes or No
 If Yes: Fax or PDF
 Electronic Options:
 No Fax E-Mail PDF Equis
 Samplers: MIS GAP 9-16-21
 9/15/21 1700 0808 Etablom
 Relinquished By: Date: Time: Received By:
 Etablom 9-16-21 0823
 Relinquished By: Date: Time: Received By:

Metals: Lists Below Samples Field Filtered: YES
 A: Fe, Mn, As, Sb, Ba, Be, Cd, Cr, Cu, Pb, Hg, Ni, Ag, Tl, Mg, K
 B:
 Notes: (i.e., Special Detection Limits, Billing Info, If Different)
 Trip blank(s) prepared by EAI.
 Bill GSL:
 *Report 1,4-dioxane to 0.25 ug/l RL
 *Hold Final report until EQUIS EDD ready.
 Field Readings:



Tim White
Sanborn, Head & Associates, Inc. (NH)
20 Foundry Street
Concord, NH 03301



Laboratory Report for:

Eastern Analytical, Inc. ID: 232248
Client Identification: Dalton | Groundwater | 1003.20
Date Received: 9/17/2021

Enclosed are the analytical results per the Chain of Custody for sample(s) in the referenced project. All analyses were performed in accordance with our QA/QC Program, NELAP and other applicable state requirements. All quality control criteria was within acceptance criteria unless noted on the report pages. Results are for the exclusive use of the client named on this report and will not be released to a third party without consent.

The following information is contained within this report: Sample Conditions summary, Analytical Results/Data, Quality Control data (if requested) and copies of the Chain of Custody. This report may not be reproduced except in full, without the written approval of the laboratory.

The following standard abbreviations and conventions apply to all EAI reports:

- < : "less than" followed by the reporting limit
- > : "greater than" followed by the reporting limit
- %R : % Recovery

Certifications:

Eastern Analytical, Inc. maintains certification in the following states: Connecticut (PH-0492), Maine (NH005), Massachusetts (M-NH005), New Hampshire/NELAP (1012), Rhode Island (269), Vermont (VT1012), New York (12072), West Virginia (9910C) and Alabama (41620). Please refer to our website at www.easternanalytical.com for a copy of our certificates and accredited parameters.

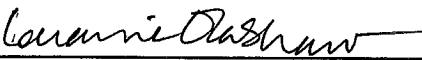
References:

- EPA 600/4-79-020, 1983
- Standard Methods for Examination of Water and Wastewater, 20th, 21st, 22nd & 23rd edition or noted revision year.
- Test Methods for Evaluating Solid Waste SW 846 3rd Edition including updates IVA and IVB
- Hach Water Analysis Handbook, 4th edition, 1992

If you have any questions regarding the results contained within, please feel free to contact customer service. Unless otherwise requested, we will dispose of the sample(s) 6 weeks from the sample receipt date.

We appreciate this opportunity to be of service and look forward to your continued patronage.

Sincerely,


Lorraine Olashaw, Lab Director

10.4.21
Date



SAMPLE CONDITIONS PAGE

EAI ID#: **232248**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Dalton | Groundwater | 1003.20**

Temperature upon receipt (°C): 1.5

Received on ice or cold packs (Yes/No): Y

Acceptable temperature range (°C): 0-6

Lab ID	Sample ID	Date Received	Date/Time Sampled	Sample Matrix	% Dry Weight	Exceptions/Comments (other than thermal preservation)
232248.01	MW-5_20210916	9/17/21	9/16/21 09:53	aqueous		Adheres to Sample Acceptance Policy
232248.02	MW-6_20210916	9/17/21	9/16/21 13:00	aqueous		Adheres to Sample Acceptance Policy
232248.03	MW-7_20210916	9/17/21	9/16/21 10:12	aqueous		Adheres to Sample Acceptance Policy
232248.04	MW-11_20210916	9/17/21	9/16/21 08:45	aqueous		Adheres to Sample Acceptance Policy
232248.05	MW-12_20210916	9/17/21	9/16/21 09:29	aqueous		Adheres to Sample Acceptance Policy
232248.06	MW-21U_20210916	9/17/21	9/16/21 11:45	aqueous		Adheres to Sample Acceptance Policy
232248.07	MW-38_20210916	9/17/21	9/16/21 12:00	aqueous		Adheres to Sample Acceptance Policy
232248.08	MW-39_20210916	9/17/21	9/16/21 11:05	aqueous		Adheres to Sample Acceptance Policy
232248.09	MW-39R_20210916	9/17/21	9/16/21 11:20	aqueous		Adheres to Sample Acceptance Policy
232248.1	GWDUP-1_20210916	9/17/21	9/16/21 09:53	aqueous		Adheres to Sample Acceptance Policy
232248.11	TB-GW-02_20210916	9/17/21	9/16/21 13:40	aqueous		Adheres to Sample Acceptance Policy
232248.12	TB-LL-GW-02_20210916	9/17/21	9/16/21 13:40	aqueous		Adheres to Sample Acceptance Policy

All results contained in this report relate only to the above listed samples.

Unless otherwise noted:

- Hold times, preservation, container types, and sample conditions adhered to EPA Protocol.
- Solid samples are reported on a dry weight basis, unless otherwise noted. pH/Corrosivity, Flashpoint, Ignitability, Paint Filter, Conductivity and Specific Gravity are always reported on an "as received" basis.
- Analysis of pH, Total Residual Chlorine, Dissolved Oxygen and Sulfite were performed at the laboratory outside of the recommended 15 minute hold time.
- Samples collected by Eastern Analytical, Inc. (EAI) were collected in accordance with approved EPA procedures.



LABORATORY REPORT

EAI ID#: 232248

Client: Sanborn, Head & Associates, Inc. (NH)

Client Designation: Dalton | Groundwater | 1003.20

Sample ID:	MW-5_20210916	MW-6_20210916	MW-7_20210916	MW-11_20210916
Lab Sample ID:	232248.01	232248.02	232248.03	232248.04
Matrix:	aqueous	aqueous	aqueous	aqueous
Date Sampled:	9/16/21	9/16/21	9/16/21	9/16/21
Date Received:	9/17/21	9/17/21	9/17/21	9/17/21
Units:	ug/L	ug/L	ug/L	ug/L
Date of Analysis:	9/21/21	9/21/21	9/21/21	9/21/21
Analyst:	AM	AM	AM	AM
Method:	8260C	8260C	8260C	8260C
Dilution Factor:	1	1	1	1
Dichlorodifluoromethane	< 2	< 2	< 2	< 2
Chloromethane	< 2	< 2	< 2	< 2
Vinyl chloride	< 1	< 1	< 1	< 1
Bromomethane	< 2	< 2	< 2	< 2
Chloroethane	< 2	< 2	< 2	< 2
Trichlorofluoromethane	< 2	< 2	< 2	< 2
Diethyl Ether	< 2	< 2	< 2	< 2
Acetone	< 10	< 10	< 10	< 10
1,1-Dichloroethene	< 0.5	< 0.5	< 0.5	< 0.5
tert-Butyl Alcohol (TBA)	< 30	< 30	< 30	< 30
Methylene chloride	< 1	< 1	< 1	< 1
Carbon disulfide	< 2	< 2	< 2	< 2
Methyl-t-butyl ether(MTBE)	< 1	< 1	< 1	< 1
Ethyl-t-butyl ether(ETBE)	< 2	< 2	< 2	< 2
Isopropyl ether(DIPE)	< 2	< 2	< 2	< 2
tert-amyl methyl ether(TAME)	< 2	< 2	< 2	< 2
trans-1,2-Dichloroethene	< 1	< 1	< 1	< 1
1,1-Dichloroethane	< 1	< 1	< 1	< 1
2,2-Dichloropropane	< 1	< 1	< 1	< 1
cis-1,2-Dichloroethene	< 1	< 1	< 1	< 1
2-Butanone(MEK)	< 10	< 10	< 10	< 10
Bromochloromethane	< 1	< 1	< 1	< 1
Tetrahydrofuran(THF)	< 10	< 10	< 10	< 10
Chloroform	< 1	< 1	< 1	< 1
1,1,1-Trichloroethane	< 1	< 1	< 1	< 1
Carbon tetrachloride	< 1	< 1	< 1	< 1
1,1-Dichloropropene	< 1	< 1	< 1	< 1
Benzene	< 1	< 1	< 1	< 1
1,2-Dichloroethane	< 1	< 1	< 1	< 1
Trichloroethene	< 1	< 1	< 1	< 1
1,2-Dichloropropane	< 1	< 1	< 1	< 1
Dibromomethane	< 1	< 1	< 1	< 1
Bromodichloromethane	< 0.5	< 0.5	< 0.5	< 0.5
1,4-Dioxane	< 50	< 50	< 50	< 50
4-Methyl-2-pentanone(MIBK)	< 10	< 10	< 10	< 10
cis-1,3-Dichloropropene	< 0.5	< 0.5	< 0.5	< 0.5
Toluene	< 1	< 1	< 1	< 1
trans-1,3-Dichloropropene	< 0.5	< 0.5	< 0.5	< 0.5
1,1,2-Trichloroethane	< 1	< 1	< 1	< 1
2-Hexanone	< 10	< 10	< 10	< 10
Tetrachloroethene	< 1	< 1	< 1	< 1
1,3-Dichloropropane	< 1	< 1	< 1	< 1
Dibromochloromethane	< 1	< 1	< 1	< 1
1,2-Dibromoethane(EDB)	< 0.5	< 0.5	< 0.5	< 0.5
Chlorobenzene	< 1	< 1	< 1	< 1
1,1,1,2-Tetrachloroethane	< 1	< 1	< 1	< 1



LABORATORY REPORT

EAI ID#: **232248**

Client: **Sanborn, Head & Associates, Inc. (NH)**
 Client Designation: **Dalton | Groundwater | 1003.20**

Sample ID:	MW-5_20210916	MW-6_20210916	MW-7_20210916	MW-11_20210916
Lab Sample ID:	232248.01	232248.02	232248.03	232248.04
Matrix:	aqueous	aqueous	aqueous	aqueous
Date Sampled:	9/16/21	9/16/21	9/16/21	9/16/21
Date Received:	9/17/21	9/17/21	9/17/21	9/17/21
Units:	ug/L	ug/L	ug/L	ug/L
Date of Analysis:	9/21/21	9/21/21	9/21/21	9/21/21
Analyst:	AM	AM	AM	AM
Method:	8260C	8260C	8260C	8260C
Dilution Factor:	1	1	1	1
Ethylbenzene	< 1	< 1	< 1	< 1
mp-Xylene	< 1	< 1	< 1	< 1
o-Xylene	< 1	< 1	< 1	< 1
Styrene	< 1	< 1	< 1	< 1
Bromoform	< 2	< 2	< 2	< 2
IsoPropylbenzene	< 1	< 1	< 1	< 1
Bromobenzene	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	< 1	< 1	< 1	< 1
1,2,3-Trichloropropane	< 0.5	< 0.5	< 0.5	< 0.5
n-Propylbenzene	< 1	< 1	< 1	< 1
2-Chlorotoluene	< 1	< 1	< 1	< 1
4-Chlorotoluene	< 1	< 1	< 1	< 1
1,3,5-Trimethylbenzene	< 1	< 1	< 1	< 1
tert-Butylbenzene	< 1	< 1	< 1	< 1
1,2,4-Trimethylbenzene	< 1	< 1	< 1	< 1
sec-Butylbenzene	< 1	< 1	< 1	< 1
1,3-Dichlorobenzene	< 1	< 1	< 1	< 1
p-Isopropyltoluene	< 1	< 1	< 1	< 1
1,4-Dichlorobenzene	< 1	< 1	< 1	< 1
1,2-Dichlorobenzene	< 1	< 1	< 1	< 1
n-Butylbenzene	< 1	< 1	< 1	< 1
1,2-Dibromo-3-chloropropane	< 2	< 2	< 2	< 2
1,3,5-Trichlorobenzene	< 1	< 1	< 1	< 1
1,2,4-Trichlorobenzene	< 1	< 1	< 1	< 1
Hexachlorobutadiene	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	< 2	< 2	< 2	< 2
1,2,3-Trichlorobenzene	< 0.5	< 0.5	< 0.5	< 0.5
4-Bromofluorobenzene (surr)	99 %R	99 %R	98 %R	99 %R
1,2-Dichlorobenzene-d4 (surr)	101 %R	101 %R	100 %R	101 %R
Toluene-d8 (surr)	99 %R	101 %R	100 %R	100 %R
1,2-Dichloroethane-d4 (surr)	98 %R	99 %R	100 %R	101 %R



LABORATORY REPORT

EAI ID#: **232248**

Client: **Sanborn, Head & Associates, Inc. (NH)**
 Client Designation: **Dalton | Groundwater | 1003.20**

Sample ID:	MW-12_20210916	MW-21U_20210916	MW-38_20210916	MW-39_20210916
Lab Sample ID:	232248.05	232248.06	232248.07	232248.08
Matrix:	aqueous	aqueous	aqueous	aqueous
Date Sampled:	9/16/21	9/16/21	9/16/21	9/16/21
Date Received:	9/17/21	9/17/21	9/17/21	9/17/21
Units:	ug/L	ug/L	ug/L	ug/L
Date of Analysis:	9/21/21	9/21/21	9/21/21	9/21/21
Analyst:	AM	AM	AM	AM
Method:	8260C	8260C	8260C	8260C
Dilution Factor:	1	1	1	1
Dichlorodifluoromethane	< 2	< 2	< 2	< 2
Chloromethane	< 2	< 2	< 2	< 2
Vinyl chloride	< 1	< 1	< 1	< 1
Bromomethane	< 2	< 2	< 2	< 2
Chloroethane	< 2	< 2	< 2	< 2
Trichlorofluoromethane	< 2	< 2	< 2	< 2
Diethyl Ether	< 2	< 2	< 2	< 2
Acetone	< 10	< 10	< 10	< 10
1,1-Dichloroethene	< 0.5	< 0.5	< 0.5	< 0.5
tert-Butyl Alcohol (TBA)	< 30	< 30	< 30	< 30
Methylene chloride	< 1	< 1	< 1	< 1
Carbon disulfide	< 2	< 2	< 2	< 2
Methyl-t-butyl ether(MTBE)	< 1	< 1	< 1	< 1
Ethyl-t-butyl ether(ETBE)	< 2	< 2	< 2	< 2
Isopropyl ether(DIPE)	< 2	< 2	< 2	< 2
tert-amyl methyl ether(TAME)	< 2	< 2	< 2	< 2
trans-1,2-Dichloroethene	< 1	< 1	< 1	< 1
1,1-Dichloroethane	< 1	< 1	< 1	< 1
2,2-Dichloropropane	< 1	< 1	< 1	< 1
cis-1,2-Dichloroethene	< 1	< 1	< 1	< 1
2-Butanone(MEK)	< 10	< 10	< 10	< 10
Bromochloromethane	< 1	< 1	< 1	< 1
Tetrahydrofuran(THF)	< 10	< 10	< 10	< 10
Chloroform	< 1	< 1	< 1	< 1
1,1,1-Trichloroethane	< 1	< 1	< 1	< 1
Carbon tetrachloride	< 1	< 1	< 1	< 1
1,1-Dichloropropene	< 1	< 1	< 1	< 1
Benzene	< 1	< 1	< 1	< 1
1,2-Dichloroethane	< 1	< 1	< 1	< 1
Trichloroethene	< 1	< 1	< 1	1.9
1,2-Dichloropropane	< 1	< 1	< 1	< 1
Dibromomethane	< 1	< 1	< 1	< 1
Bromodichloromethane	< 0.5	< 0.5	< 0.5	< 0.5
1,4-Dioxane	< 50	< 50	< 50	< 50
4-Methyl-2-pentanone(MIBK)	< 10	< 10	< 10	< 10
cis-1,3-Dichloropropene	< 0.5	< 0.5	< 0.5	< 0.5
Toluene	< 1	< 1	< 1	< 1
trans-1,3-Dichloropropene	< 0.5	< 0.5	< 0.5	< 0.5
1,1,2-Trichloroethane	< 1	< 1	< 1	< 1
2-Hexanone	< 10	< 10	< 10	< 10
Tetrachloroethene	< 1	< 1	< 1	< 1
1,3-Dichloropropane	< 1	< 1	< 1	< 1
Dibromochloromethane	< 1	< 1	< 1	< 1
1,2-Dibromoethane(EDB)	< 0.5	< 0.5	< 0.5	< 0.5
Chlorobenzene	< 1	< 1	< 1	< 1
1,1,1,2-Tetrachloroethane	< 1	< 1	< 1	< 1



LABORATORY REPORT

EAI ID#: **232248**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Dalton | Groundwater | 1003.20**

Sample ID:	MW-12_20210916	MW-21U_20210916	MW-38_20210916	MW-39_20210916
Lab Sample ID:	232248.05	232248.06	232248.07	232248.08
Matrix:	aqueous	aqueous	aqueous	aqueous
Date Sampled:	9/16/21	9/16/21	9/16/21	9/16/21
Date Received:	9/17/21	9/17/21	9/17/21	9/17/21
Units:	ug/L	ug/L	ug/L	ug/L
Date of Analysis:	9/21/21	9/21/21	9/21/21	9/21/21
Analyst:	AM	AM	AM	AM
Method:	8260C	8260C	8260C	8260C
Dilution Factor:	1	1	1	1
Ethylbenzene	< 1	< 1	< 1	< 1
mp-Xylene	< 1	< 1	< 1	< 1
o-Xylene	< 1	< 1	< 1	< 1
Styrene	< 1	< 1	< 1	< 1
Bromoform	< 2	< 2	< 2	< 2
IsoPropylbenzene	< 1	< 1	< 1	< 1
Bromobenzene	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	< 1	< 1	< 1	< 1
1,2,3-Trichloropropane	< 0.5	< 0.5	< 0.5	< 0.5
n-Propylbenzene	< 1	< 1	< 1	< 1
2-Chlorotoluene	< 1	< 1	< 1	< 1
4-Chlorotoluene	< 1	< 1	< 1	< 1
1,3,5-Trimethylbenzene	< 1	< 1	< 1	< 1
tert-Butylbenzene	< 1	< 1	< 1	< 1
1,2,4-Trimethylbenzene	< 1	< 1	< 1	< 1
sec-Butylbenzene	< 1	< 1	< 1	< 1
1,3-Dichlorobenzene	< 1	< 1	< 1	< 1
p-Isopropyltoluene	< 1	< 1	< 1	< 1
1,4-Dichlorobenzene	< 1	< 1	< 1	< 1
1,2-Dichlorobenzene	< 1	< 1	< 1	< 1
n-Butylbenzene	< 1	< 1	< 1	< 1
1,2-Dibromo-3-chloropropane	< 2	< 2	< 2	< 2
1,3,5-Trichlorobenzene	< 1	< 1	< 1	< 1
1,2,4-Trichlorobenzene	< 1	< 1	< 1	< 1
Hexachlorobutadiene	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	< 2	< 2	< 2	< 2
1,2,3-Trichlorobenzene	< 0.5	< 0.5	< 0.5	< 0.5
4-Bromofluorobenzene (surr)	100 %R	99 %R	98 %R	100 %R
1,2-Dichlorobenzene-d4 (surr)	101 %R	101 %R	101 %R	101 %R
Toluene-d8 (surr)	100 %R	99 %R	99 %R	98 %R
1,2-Dichloroethane-d4 (surr)	100 %R	100 %R	100 %R	102 %R



LABORATORY REPORT

EAI ID#: **232248**

Client: **Sanborn, Head & Associates, Inc. (NH)**
 Client Designation: **Dalton | Groundwater | 1003.20**

Sample ID:	MW-39R_20210916	GWDUP-1_20210916	TB-GW-02_20210916
Lab Sample ID:	232248.09	232248.1	232248.11
Matrix:	aqueous	aqueous	aqueous
Date Sampled:	9/16/21	9/16/21	9/16/21
Date Received:	9/17/21	9/17/21	9/17/21
Units:	ug/L	ug/L	ug/L
Date of Analysis:	9/21/21	9/21/21	9/21/21
Analyst:	AM	AM	AM
Method:	8260C	8260C	8260C
Dilution Factor:	1	1	1
Dichlorodifluoromethane	< 2	< 2	< 2
Chloromethane	< 2	< 2	< 2
Vinyl chloride	< 1	< 1	< 1
Bromomethane	< 2	< 2	< 2
Chloroethane	< 2	< 2	< 2
Trichlorofluoromethane	< 2	< 2	< 2
Diethyl Ether	< 2	< 2	< 2
Acetone	< 10	< 10	< 10
1,1-Dichloroethene	< 0.5	< 0.5	< 0.5
tert-Butyl Alcohol (TBA)	< 30	< 30	< 30
Methylene chloride	< 1	< 1	< 1
Carbon disulfide	< 2	< 2	< 2
Methyl-t-butyl ether(MTBE)	< 1	< 1	< 1
Ethyl-t-butyl ether(ETBE)	< 2	< 2	< 2
Isopropyl ether(DIPE)	< 2	< 2	< 2
tert-amyl methyl ether(TAME)	< 2	< 2	< 2
trans-1,2-Dichloroethene	< 1	< 1	< 1
1,1-Dichloroethane	< 1	< 1	< 1
2,2-Dichloropropane	< 1	< 1	< 1
cis-1,2-Dichloroethene	< 1	< 1	< 1
2-Butanone(MEK)	< 10	< 10	< 10
Bromochloromethane	< 1	< 1	< 1
Tetrahydrofuran(THF)	< 10	< 10	< 10
Chloroform	< 1	< 1	< 1
1,1,1-Trichloroethane	< 1	< 1	< 1
Carbon tetrachloride	< 1	< 1	< 1
1,1-Dichloropropene	< 1	< 1	< 1
Benzene	< 1	< 1	< 1
1,2-Dichloroethane	< 1	< 1	< 1
Trichloroethene	< 1	< 1	< 1
1,2-Dichloropropane	< 1	< 1	< 1
Dibromomethane	< 1	< 1	< 1
Bromodichloromethane	< 0.5	< 0.5	< 0.5
1,4-Dioxane	< 50	< 50	< 50
4-Methyl-2-pentanone(MIBK)	< 10	< 10	< 10
cis-1,3-Dichloropropene	< 0.5	< 0.5	< 0.5
Toluene	< 1	< 1	< 1
trans-1,3-Dichloropropene	< 0.5	< 0.5	< 0.5
1,1,2-Trichloroethane	< 1	< 1	< 1
2-Hexanone	< 10	< 10	< 10
Tetrachloroethene	< 1	< 1	< 1
1,3-Dichloropropane	< 1	< 1	< 1
Dibromochloromethane	< 1	< 1	< 1
1,2-Dibromoethane(EDB)	< 0.5	< 0.5	< 0.5
Chlorobenzene	< 1	< 1	< 1
1,1,1,2-Tetrachloroethane	< 1	< 1	< 1



LABORATORY REPORT

EAI ID#: **232248**

Client: **Sanborn, Head & Associates, Inc. (NH)**
 Client Designation: **Dalton | Groundwater | 1003.20**

Sample ID:	MW-39R_20210916	GWDUP-1_20210916	TB-GW-02_20210916
Lab Sample ID:	232248.09	232248.1	232248.11
Matrix:	aqueous	aqueous	aqueous
Date Sampled:	9/16/21	9/16/21	9/16/21
Date Received:	9/17/21	9/17/21	9/17/21
Units:	ug/L	ug/L	ug/L
Date of Analysis:	9/21/21	9/21/21	9/21/21
Analyst:	AM	AM	AM
Method:	8260C	8260C	8260C
Dilution Factor:	1	1	1
Ethylbenzene	< 1	< 1	< 1
mp-Xylene	< 1	< 1	< 1
o-Xylene	< 1	< 1	< 1
Styrene	< 1	< 1	< 1
Bromoform	< 2	< 2	< 2
IsoPropylbenzene	< 1	< 1	< 1
Bromobenzene	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	< 1	< 1	< 1
1,2,3-Trichloropropane	< 0.5	< 0.5	< 0.5
n-Propylbenzene	< 1	< 1	< 1
2-Chlorotoluene	< 1	< 1	< 1
4-Chlorotoluene	< 1	< 1	< 1
1,3,5-Trimethylbenzene	< 1	< 1	< 1
tert-Butylbenzene	< 1	< 1	< 1
1,2,4-Trimethylbenzene	< 1	< 1	< 1
sec-Butylbenzene	< 1	< 1	< 1
1,3-Dichlorobenzene	< 1	< 1	< 1
p-Isopropyltoluene	< 1	< 1	< 1
1,4-Dichlorobenzene	< 1	< 1	< 1
1,2-Dichlorobenzene	< 1	< 1	< 1
n-Butylbenzene	< 1	< 1	< 1
1,2-Dibromo-3-chloropropane	< 2	< 2	< 2
1,3,5-Trichlorobenzene	< 1	< 1	< 1
1,2,4-Trichlorobenzene	< 1	< 1	< 1
Hexachlorobutadiene	< 0.5	< 0.5	< 0.5
Naphthalene	< 2	< 2	< 2
1,2,3-Trichlorobenzene	< 0.5	< 0.5	< 0.5
4-Bromofluorobenzene (surr)	99 %R	99 %R	99 %R
1,2-Dichlorobenzene-d4 (surr)	101 %R	101 %R	100 %R
Toluene-d8 (surr)	99 %R	99 %R	100 %R
1,2-Dichloroethane-d4 (surr)	101 %R	101 %R	97 %R



QC REPORT

EAI ID#: 232248

Client: Sanborn, Head & Associates, Inc. (NH)

Batch ID: 637678-38619/A092121V82601

Client Designation: Dalton | Groundwater | 1003.20

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
Dichlorodifluoromethane	< 2	22 (108 %R)	18 (91 %R) (17 RPD)	9/21/2021	ug/L	40 - 160	20	8260C
Chloromethane	< 2	25 (124 %R)	24 (118 %R) (5 RPD)	9/21/2021	ug/L	40 - 160	20	8260C
Vinyl chloride	< 1	24 (120 %R)	23 (113 %R) (6 RPD)	9/21/2021	ug/L	70 - 130	20	8260C
Bromomethane	< 2	24 (122 %R)	25 (124 %R) (1 RPD)	9/21/2021	ug/L	40 - 160	20	8260C
Chloroethane	< 2	22 (108 %R)	21 (103 %R) (5 RPD)	9/21/2021	ug/L	70 - 130	20	8260C
Trichlorofluoromethane	< 2	24 (120 %R)	21 (107 %R) (11 RPD)	9/21/2021	ug/L	70 - 130	20	8260C
Diethyl Ether	< 2	19 (95 %R)	19 (94 %R) (1 RPD)	9/21/2021	ug/L	70 - 130	20	8260C
Acetone	< 10	18 (90 %R)	17 (87 %R) (3 RPD)	9/21/2021	ug/L	40 - 160	20	8260C
1,1-Dichloroethene	< 0.5	19 (96 %R)	18 (90 %R) (6 RPD)	9/21/2021	ug/L	70 - 130	20	8260C
tert-Butyl Alcohol (TBA)	< 30	100 (102 %R)	100 (100 %R) (2 RPD)	9/21/2021	ug/L	70 - 130	20	8260C
Methylene chloride	< 1	19 (94 %R)	18 (92 %R) (2 RPD)	9/21/2021	ug/L	70 - 130	20	8260C
Carbon disulfide	< 2	18 (88 %R)	17 (83 %R) (7 RPD)	9/21/2021	ug/L	70 - 130	20	8260C
Methyl-t-butyl ether(MTBE)	< 1	19 (93 %R)	18 (92 %R) (1 RPD)	9/21/2021	ug/L	70 - 130	20	8260C
Ethyl-t-butyl ether(ETBE)	< 2	18 (92 %R)	18 (92 %R) (1 RPD)	9/21/2021	ug/L	70 - 130	20	8260C
Isopropyl ether(DIPE)	< 2	18 (90 %R)	18 (90 %R) (1 RPD)	9/21/2021	ug/L	70 - 130	20	8260C
tert-amyl methyl ether(TAME)	< 2	19 (96 %R)	19 (95 %R) (1 RPD)	9/21/2021	ug/L	70 - 130	20	8260C
trans-1,2-Dichloroethene	< 1	20 (100 %R)	19 (96 %R) (5 RPD)	9/21/2021	ug/L	70 - 130	20	8260C
1,1-Dichloroethane	< 1	19 (96 %R)	19 (94 %R) (2 RPD)	9/21/2021	ug/L	70 - 130	20	8260C
2,2-Dichloropropane	< 1	20 (99 %R)	20 (100 %R) (0 RPD)	9/21/2021	ug/L	70 - 130	20	8260C
cis-1,2-Dichloroethene	< 1	19 (95 %R)	19 (93 %R) (2 RPD)	9/21/2021	ug/L	70 - 130	20	8260C
2-Butanone(MEK)	< 10	17 (87 %R)	17 (87 %R) (0 RPD)	9/21/2021	ug/L	40 - 160	20	8260C
Bromochloromethane	< 1	20 (99 %R)	19 (97 %R) (2 RPD)	9/21/2021	ug/L	70 - 130	20	8260C
Tetrahydrofuran(THF)	< 10	18 (92 %R)	18 (91 %R) (1 RPD)	9/21/2021	ug/L	70 - 130	20	8260C
Chloroform	< 1	19 (95 %R)	19 (93 %R) (2 RPD)	9/21/2021	ug/L	70 - 130	20	8260C
1,1,1-Trichloroethane	< 1	20 (101 %R)	19 (96 %R) (5 RPD)	9/21/2021	ug/L	70 - 130	20	8260C
Carbon tetrachloride	< 1	20 (100 %R)	19 (94 %R) (6 RPD)	9/21/2021	ug/L	70 - 130	20	8260C
1,1-Dichloropropene	< 1	19 (95 %R)	18 (90 %R) (6 RPD)	9/21/2021	ug/L	70 - 130	20	8260C
Benzene	< 1	20 (99 %R)	19 (96 %R) (3 RPD)	9/21/2021	ug/L	70 - 130	20	8260C
1,2-Dichloroethane	< 1	18 (91 %R)	18 (90 %R) (1 RPD)	9/21/2021	ug/L	70 - 130	20	8260C
Trichloroethene	< 1	20 (98 %R)	19 (94 %R) (4 RPD)	9/21/2021	ug/L	70 - 130	20	8260C
1,2-Dichloropropane	< 1	19 (97 %R)	19 (95 %R) (2 RPD)	9/21/2021	ug/L	70 - 130	20	8260C
Dibromomethane	< 1	19 (95 %R)	19 (94 %R) (1 RPD)	9/21/2021	ug/L	70 - 130	20	8260C
Bromodichloromethane	< 0.5	20 (98 %R)	19 (97 %R) (2 RPD)	9/21/2021	ug/L	70 - 130	20	8260C
1,4-Dioxane	< 50	< 50 (100 %R)	< 50 (102 %R) (2 RPD)	9/21/2021	ug/L	40 - 160	20	8260C
4-Methyl-2-pentanone(MIBK)	< 10	18 (92 %R)	18 (91 %R) (1 RPD)	9/21/2021	ug/L	40 - 160	20	8260C
cis-1,3-Dichloropropene	< 0.5	20 (99 %R)	20 (98 %R) (1 RPD)	9/21/2021	ug/L	70 - 130	20	8260C
Toluene	< 1	20 (98 %R)	19 (94 %R) (4 RPD)	9/21/2021	ug/L	70 - 130	20	8260C
trans-1,3-Dichloropropene	< 0.5	21 (103 %R)	20 (102 %R) (1 RPD)	9/21/2021	ug/L	70 - 130	20	8260C
1,1,2-Trichloroethane	< 1	19 (95 %R)	19 (95 %R) (0 RPD)	9/21/2021	ug/L	70 - 130	20	8260C
2-Hexanone	< 10	18 (88 %R)	17 (87 %R) (1 RPD)	9/21/2021	ug/L	40 - 160	20	8260C
Tetrachloroethene	< 1	20 (100 %R)	19 (94 %R) (6 RPD)	9/21/2021	ug/L	70 - 130	20	8260C
1,3-Dichloropropane	< 1	18 (89 %R)	18 (89 %R) (0 RPD)	9/21/2021	ug/L	70 - 130	20	8260C
Dibromochloromethane	< 1	20 (99 %R)	20 (98 %R) (2 RPD)	9/21/2021	ug/L	70 - 130	20	8260C
1,2-Dibromoethane(EDB)	< 0.5	20 (98 %R)	19 (96 %R) (1 RPD)	9/21/2021	ug/L	70 - 130	20	8260C
Chlorobenzene	< 1	20 (99 %R)	19 (97 %R) (3 RPD)	9/21/2021	ug/L	70 - 130	20	8260C
1,1,1,2-Tetrachloroethane	< 1	20 (100 %R)	19 (97 %R) (3 RPD)	9/21/2021	ug/L	70 - 130	20	8260C



QC REPORT

EAI ID#: **232248**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Batch ID: 637678-38619/A092121V82601

Client Designation: **Dalton | Groundwater | 1003.20**

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
Ethylbenzene	< 1	20 (100 %R)	19 (97 %R) (4 RPD)	9/21/2021	ug/L	70 - 130	20	8260C
mp-Xylene	< 1	39 (98 %R)	38 (95 %R) (4 RPD)	9/21/2021	ug/L	70 - 130	20	8260C
o-Xylene	< 1	20 (101 %R)	20 (99 %R) (3 RPD)	9/21/2021	ug/L	70 - 130	20	8260C
Styrene	< 1	21 (103 %R)	20 (101 %R) (2 RPD)	9/21/2021	ug/L	70 - 130	20	8260C
Bromoform	< 2	18 (91 %R)	18 (89 %R) (2 RPD)	9/21/2021	ug/L	70 - 130	20	8260C
IsoPropylbenzene	< 1	21 (103 %R)	20 (98 %R) (4 RPD)	9/21/2021	ug/L	70 - 130	20	8260C
Bromobenzene	< 1	20 (100 %R)	20 (98 %R) (2 RPD)	9/21/2021	ug/L	70 - 130	20	8260C
1,1,2,2-Tetrachloroethane	< 1	19 (95 %R)	19 (95 %R) (0 RPD)	9/21/2021	ug/L	70 - 130	20	8260C
1,2,3-Trichloropropane	< 0.5	18 (92 %R)	18 (92 %R) (0 RPD)	9/21/2021	ug/L	70 - 130	20	8260C
n-Propylbenzene	< 1	20 (101 %R)	20 (98 %R) (3 RPD)	9/21/2021	ug/L	70 - 130	20	8260C
2-Chlorotoluene	< 1	20 (99 %R)	19 (97 %R) (2 RPD)	9/21/2021	ug/L	70 - 130	20	8260C
4-Chlorotoluene	< 1	20 (100 %R)	19 (97 %R) (3 RPD)	9/21/2021	ug/L	70 - 130	20	8260C
1,3,5-Trimethylbenzene	< 1	20 (100 %R)	19 (97 %R) (3 RPD)	9/21/2021	ug/L	70 - 130	20	8260C
tert-Butylbenzene	< 1	20 (102 %R)	20 (99 %R) (3 RPD)	9/21/2021	ug/L	70 - 130	20	8260C
1,2,4-Trimethylbenzene	< 1	20 (102 %R)	20 (100 %R) (2 RPD)	9/21/2021	ug/L	70 - 130	20	8260C
sec-Butylbenzene	< 1	21 (105 %R)	20 (101 %R) (4 RPD)	9/21/2021	ug/L	70 - 130	20	8260C
1,3-Dichlorobenzene	< 1	20 (101 %R)	20 (98 %R) (2 RPD)	9/21/2021	ug/L	70 - 130	20	8260C
p-Isopropyltoluene	< 1	21 (103 %R)	20 (100 %R) (4 RPD)	9/21/2021	ug/L	70 - 130	20	8260C
1,4-Dichlorobenzene	< 1	20 (99 %R)	19 (97 %R) (2 RPD)	9/21/2021	ug/L	70 - 130	20	8260C
1,2-Dichlorobenzene	< 1	20 (99 %R)	20 (98 %R) (2 RPD)	9/21/2021	ug/L	70 - 130	20	8260C
n-Butylbenzene	< 1	20 (100 %R)	19 (96 %R) (4 RPD)	9/21/2021	ug/L	70 - 130	20	8260C
1,2-Dibromo-3-chloropropane	< 2	19 (97 %R)	19 (95 %R) (2 RPD)	9/21/2021	ug/L	70 - 130	20	8260C
1,3,5-Trichlorobenzene	< 1	20 (98 %R)	19 (95 %R) (3 RPD)	9/21/2021	ug/L	70 - 130	20	8260C
1,2,4-Trichlorobenzene	< 1	20 (99 %R)	19 (96 %R) (4 RPD)	9/21/2021	ug/L	70 - 130	20	8260C
Hexachlorobutadiene	< 0.5	20 (99 %R)	18 (90 %R) (9 RPD)	9/21/2021	ug/L	70 - 130	20	8260C
Naphthalene	< 2	21 (103 %R)	20 (101 %R) (3 RPD)	9/21/2021	ug/L	70 - 130	20	8260C
1,2,3-Trichlorobenzene	< 0.5	20 (102 %R)	19 (97 %R) (5 RPD)	9/21/2021	ug/L	70 - 130	20	8260C
4-Bromofluorobenzene (surr)	99 %R	99 %R	100 %R	9/21/2021	% Rec	70 - 130	20	8260C
1,2-Dichlorobenzene-d4 (surr)	101 %R	100 %R	99 %R	9/21/2021	% Rec	70 - 130	20	8260C
Toluene-d8 (surr)	98 %R	99 %R	99 %R	9/21/2021	% Rec	70 - 130	20	8260C

*! Flagged analyte recoveries deviated from the QA/QC limits. Data that impacts sample results are noted on the sample report.



LABORATORY REPORT

EAI ID#: **232248**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Dalton | Groundwater | 1003.20**

Sample ID:	MW-5_20210916	MW-6_20210916	MW-7_20210916	MW-11_20210916
Lab Sample ID:	232248.01	232248.02	232248.03	232248.04
Matrix:	aqueous	aqueous	aqueous	aqueous
Date Sampled:	9/16/21	9/16/21	9/16/21	9/16/21
Date Received:	9/17/21	9/17/21	9/17/21	9/17/21
Units:	ug/L	ug/L	ug/L	ug/L
Date of Analysis:	9/22/21	9/22/21	9/22/21	9/22/21
Analyst:	AM	AM	AM	AM
Method:	8260B SIM	8260B SIM	8260B SIM	8260B SIM
Dilution Factor:	1	1	1	1
1,4-Dioxane	< 0.25	< 0.25	< 0.25	< 0.25
4-Bromofluorobenzene (surr)	102 %R	102 %R	101 %R	101 %R
Toluene-d8 (surr)	102 %R	101 %R	101 %R	102 %R



LABORATORY REPORT

EAI ID#: **232248**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Dalton | Groundwater | 1003.20**

Sample ID:	MW-12_20210916	MW-21U_20210916	MW-38_20210916	MW-39_20210916
Lab Sample ID:	232248.05	232248.06	232248.07	232248.08
Matrix:	aqueous	aqueous	aqueous	aqueous
Date Sampled:	9/16/21	9/16/21	9/16/21	9/16/21
Date Received:	9/17/21	9/17/21	9/17/21	9/17/21
Units:	ug/L	ug/L	ug/L	ug/L
Date of Analysis:	9/22/21	9/22/21	9/22/21	9/22/21
Analyst:	AM	AM	AM	AM
Method:	8260B SIM	8260B SIM	8260B SIM	8260B SIM
Dilution Factor:	1	1	1	1
1,4-Dioxane	< 0.25	< 0.25	< 0.25	< 0.25
4-Bromofluorobenzene (surr)	102 %R	100 %R	101 %R	103 %R
Toluene-d8 (surr)	102 %R	101 %R	102 %R	102 %R



LABORATORY REPORT

EAI ID#: 232248

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Dalton | Groundwater | 1003.20**

Sample ID: MW-39R_20210916 GWDUP-1_20210916 TB-LL-GW-02_20210916

Lab Sample ID:	232248.09	232248.1	232248.12
Matrix:	aqueous	aqueous	aqueous
Date Sampled:	9/16/21	9/16/21	9/16/21
Date Received:	9/17/21	9/17/21	9/17/21
Units:	ug/L	ug/L	ug/L
Date of Analysis:	9/22/21	9/22/21	9/22/21
Analyst:	AM	AM	AM
Method:	8260B SIM	8260B SIM	8260B SIM
Dilution Factor:	1	1	1
1,4-Dioxane	< 0.25	< 0.25	< 0.25
4-Bromofluorobenzene (surr)	102 %R	100 %R	98 %R
Toluene-d8 (surr)	102 %R	102 %R	100 %R



QC REPORT

EAI ID#: **232248**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Batch ID: 637679-26494/A092221DIOX1

Client Designation: **Dalton | Groundwater | 1003.20**

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
1,4-Dioxane	< 0.2	4.6 (93 %R)	4.6 (93 %R) (0 RPD)	9/22/2021	ug/L	70 - 130	20	8260B
4-Bromofluorobenzene (surr)	101 %R	101 %R	100 %R	9/22/2021	% Rec	70 - 130	50	8260B
Toluene-d8 (surr)	101 %R	102 %R	102 %R	9/22/2021	% Rec	70 - 130	50	8260B

*! Flagged analyte recoveries deviated from the QA/QC limits. Data that impacts sample results are noted on the sample report.



LABORATORY REPORT

EAI ID#: 232248

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Dalton | Groundwater | 1003.20**

Sample ID:	MW-5_20210916	MW-6_20210916	MW-7_20210916	MW-11_20210916
Lab Sample ID:	232248.01	232248.02	232248.03	232248.04
Matrix:	aqueous	aqueous	aqueous	aqueous
Date Sampled:	9/16/21	9/16/21	9/16/21	9/16/21
Date Received:	9/17/21	9/17/21	9/17/21	9/17/21
Units:	ug/L	ug/L	ug/L	ug/L
Date of Extraction/Prep:	9/21/21	9/21/21	9/21/21	9/21/21
Date of Analysis:	9/21/21	9/21/21	9/21/21	9/21/21
Analyst:	JMR	JMR	JMR	JMR
Method:	8270D	8270D	8270D	8270D
Dilution Factor:	1	1	1	1
alpha-Terpineol	< 5	< 5	< 5	< 5
Phenol	< 1	< 1	< 1	< 1
2-Chlorophenol	< 1	< 1	< 1	< 1
2,4-Dichlorophenol	< 1	< 1	< 1	< 1
2,4,5-Trichlorophenol	< 1	< 1	< 1	< 1
2,4,6-Trichlorophenol	< 1	< 1	< 1	< 1
Pentachlorophenol	< 5	< 5	< 5	< 5
2-Nitrophenol	< 5	< 5	< 5	< 5
4-Nitrophenol	< 5	< 5	< 5	< 5
2,4-Dinitrophenol	< 10	< 10	< 10	< 10
2-Methylphenol	< 1	< 1	< 1	< 1
3/4-Methylphenol	< 1	< 1	< 1	< 1
2,4-Dimethylphenol	< 5	< 5	< 5	< 5
4-Chloro-3-methylphenol	< 1	< 1	< 1	< 1
4,6-Dinitro-2-methylphenol	< 5	< 5	< 5	< 5
Benzoic Acid	< 50	< 50	< 50	< 50
N-Nitrosodimethylamine	< 1	< 1	< 1	< 1
n-Nitroso-di-n-propylamine	< 0.5	< 0.5	< 0.5	< 0.5
n-Nitrosodiphenylamine	< 1	< 1	< 1	< 1
bis(2-Chloroethyl)ether	< 1	< 1	< 1	< 1
bis(2-chloroisopropyl)ether	< 1	< 1	< 1	< 1
bis(2-Chloroethoxy)methane	< 1	< 1	< 1	< 1
1,3-Dichlorobenzene	< 1	< 1	< 1	< 1
Acetophenone	< 10	< 10	< 10	< 10
1,4-Dichlorobenzene	< 1	< 1	< 1	< 1
1,2-Dichlorobenzene	< 1	< 1	< 1	< 1
1,2,4-Trichlorobenzene	< 1	< 1	< 1	< 1
2-Chloronaphthalene	< 1	< 1	< 1	< 1
4-Chlorophenyl-phenylether	< 1	< 1	< 1	< 1
4-Bromophenyl-phenylether	< 1	< 1	< 1	< 1
Hexachloroethane	< 1	< 1	< 1	< 1
Hexachlorobutadiene	< 1	< 1	< 1	< 1
Hexachlorocyclopentadiene	< 5	< 5	< 5	< 5
Hexachlorobenzene	< 1	< 1	< 1	< 1
4-Chloroaniline	< 1	< 1	< 1	< 1
2,3-Dichloroaniline	< 1	< 1	< 1	< 1
2-Nitroaniline	< 5	< 5	< 5	< 5
3-Nitroaniline	< 5	< 5	< 5	< 5
4-Nitroaniline	< 5	< 5	< 5	< 5
Aniline	< 1	< 1	< 1	< 1
Benzyl alcohol	< 10	< 10	< 10	< 10
Nitrobenzene	< 1	< 1	< 1	< 1
Isophorone	< 1	< 1	< 1	< 1
2,4-Dinitrotoluene	< 2	< 2	< 2	< 2
2,6-Dinitrotoluene	< 2	< 2	< 2	< 2
Benzidine (estimated)	< 5	< 5	< 5	< 5
3,3'-Dichlorobenzidine	< 1	< 1	< 1	< 1



LABORATORY REPORT

EAI ID#: **232248**

Client: **Sanborn, Head & Associates, Inc. (NH)**
 Client Designation: **Dalton | Groundwater | 1003.20**

Sample ID:	MW-5_20210916	MW-6_20210916	MW-7_20210916	MW-11_20210916
Lab Sample ID:	232248.01	232248.02	232248.03	232248.04
Matrix:	aqueous	aqueous	aqueous	aqueous
Date Sampled:	9/16/21	9/16/21	9/16/21	9/16/21
Date Received:	9/17/21	9/17/21	9/17/21	9/17/21
Units:	ug/L	ug/L	ug/L	ug/L
Date of Extraction/Prep:	9/21/21	9/21/21	9/21/21	9/21/21
Date of Analysis:	9/21/21	9/21/21	9/21/21	9/21/21
Analyst:	JMR	JMR	JMR	JMR
Method:	8270D	8270D	8270D	8270D
Dilution Factor:	1	1	1	1
Pyridine	< 5	< 5	< 5	< 5
Azobenzene	< 1	< 1	< 1	< 1
Carbazole	< 1	< 1	< 1	< 1
Dimethylphthalate	< 1	< 1	< 1	< 1
Diethylphthalate	< 5	< 5	< 5	< 5
Di-n-butylphthalate	< 5	< 5	< 5	< 5
Butylbenzylphthalate	< 5	< 5	< 5	< 5
bis(2-Ethylhexyl)phthalate	< 5	< 5	< 5	< 5
Di-n-octylphthalate	< 5	< 5	< 5	< 5
Dibenzofuran	< 1	< 1	< 1	< 1
Naphthalene	< 0.1	< 0.1	< 0.1	< 0.1
2-Methylnaphthalene	< 0.1	< 0.1	< 0.1	< 0.1
1-Methylnaphthalene	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthene	< 0.1	< 0.1	< 0.1	< 0.1
Fluorene	< 0.1	< 0.1	< 0.1	< 0.1
Phenanthrene	< 0.1	< 0.1	< 0.1	< 0.1
Anthracene	< 0.1	< 0.1	< 0.1	< 0.1
Fluoranthene	< 0.1	< 0.1	< 0.1	< 0.1
Pyrene	< 0.1	< 0.1	< 0.1	< 0.1
Benzo[a]anthracene	< 0.1	< 0.1	< 0.1	< 0.1
Chrysene	< 0.1	< 0.1	< 0.1	< 0.1
Benzo[b]fluoranthene	< 0.1	< 0.1	< 0.1	< 0.1
Benzo[k]fluoranthene	< 0.1	< 0.1	< 0.1	< 0.1
Benzo[a]pyrene	< 0.1	< 0.1	< 0.1	< 0.1
Indeno[1,2,3-cd]pyrene	< 0.1	< 0.1	< 0.1	< 0.1
Dibenz[a,h]anthracene	< 0.1	< 0.1	< 0.1	< 0.1
Benzo[g,h,i]perylene	< 0.1	< 0.1	< 0.1	< 0.1
n-Decane	< 5	< 5	< 5	< 5
n-Octadecane	< 5	< 5	< 5	< 5
2-Fluorophenol (surr)	39 %R	41 %R	30 %R	33 %R
Phenol-d6 (surr)	27 %R	28 %R	22 %R	23 %R
2,4,6-Tribromophenol (surr)	83 %R	79 %R	68 %R	56 %R
Nitrobenzene-D5 (surr)	77 %R	81 %R	56 %R	58 %R
2-Fluorobiphenyl (surr)	73 %R	79 %R	59 %R	58 %R
p-Terphenyl-D14 (surr)	85 %R	90 %R	84 %R	64 %R



LABORATORY REPORT

EAI ID#: **232248**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Dalton | Groundwater | 1003.20**

Sample ID:	MW-12_20210916	MW-21U_20210916	MW-38_20210916	MW-39_20210916
Lab Sample ID:	232248.05	232248.06	232248.07	232248.08
Matrix:	aqueous	aqueous	aqueous	aqueous
Date Sampled:	9/16/21	9/16/21	9/16/21	9/16/21
Date Received:	9/17/21	9/17/21	9/17/21	9/17/21
Units:	ug/L	ug/L	ug/L	ug/L
Date of Extraction/Prep:	9/21/21	9/21/21	9/21/21	9/21/21
Date of Analysis:	9/21/21	9/21/21	9/21/21	9/21/21
Analyst:	JMR	JMR	JMR	JMR
Method:	8270D	8270D	8270D	8270D
Dilution Factor:	1	1	1	1
alpha-Terpineol	< 5	< 5	< 5	< 5
Phenol	< 1	< 1	< 1	< 1
2-Chlorophenol	< 1	< 1	< 1	< 1
2,4-Dichlorophenol	< 1	< 1	< 1	< 1
2,4,5-Trichlorophenol	< 1	< 1	< 1	< 1
2,4,6-Trichlorophenol	< 1	< 1	< 1	< 1
Pentachlorophenol	< 5	< 5	< 5	< 5
2-Nitrophenol	< 5	< 5	< 5	< 5
4-Nitrophenol	< 5	< 5	< 5	< 5
2,4-Dinitrophenol	< 10	< 10	< 10	< 10
2-Methylphenol	< 1	< 1	< 1	< 1
3/4-Methylphenol	< 1	< 1	< 1	< 1
2,4-Dimethylphenol	< 5	< 5	< 5	< 5
4-Chloro-3-methylphenol	< 1	< 1	< 1	< 1
4,6-Dinitro-2-methylphenol	< 5	< 5	< 5	< 5
Benzoic Acid	< 50	< 50	< 50	< 50
N-Nitrosodimethylamine	< 1	< 1	< 1	< 1
n-Nitroso-di-n-propylamine	< 0.5	< 0.5	< 0.5	< 0.5
n-Nitrosodiphenylamine	< 1	< 1	< 1	< 1
bis(2-Chloroethyl)ether	< 1	< 1	< 1	< 1
bis(2-chloroisopropyl)ether	< 1	< 1	< 1	< 1
bis(2-Chloroethoxy)methane	< 1	< 1	< 1	< 1
1,3-Dichlorobenzene	< 1	< 1	< 1	< 1
Acetophenone	< 10	< 10	< 10	< 10
1,4-Dichlorobenzene	< 1	< 1	< 1	< 1
1,2-Dichlorobenzene	< 1	< 1	< 1	< 1
1,2,4-Trichlorobenzene	< 1	< 1	< 1	< 1
2-Chloronaphthalene	< 1	< 1	< 1	< 1
4-Chlorophenyl-phenylether	< 1	< 1	< 1	< 1
4-Bromophenyl-phenylether	< 1	< 1	< 1	< 1
Hexachloroethane	< 1	< 1	< 1	< 1
Hexachlorobutadiene	< 1	< 1	< 1	< 1
Hexachlorocyclopentadiene	< 5	< 5	< 5	< 5
Hexachlorobenzene	< 1	< 1	< 1	< 1
4-Chloroaniline	< 1	< 1	< 1	< 1
2,3-Dichloroaniline	< 1	< 1	< 1	< 1
2-Nitroaniline	< 5	< 5	< 5	< 5
3-Nitroaniline	< 5	< 5	< 5	< 5
4-Nitroaniline	< 5	< 5	< 5	< 5
Aniline	< 1	< 1	< 1	< 1
Benzyl alcohol	< 10	< 10	< 10	< 10
Nitrobenzene	< 1	< 1	< 1	< 1
Isophorone	< 1	< 1	< 1	< 1
2,4-Dinitrotoluene	< 2	< 2	< 2	< 2
2,6-Dinitrotoluene	< 2	< 2	< 2	< 2
Benzidine (estimated)	< 5	< 5	< 5	< 5
3,3'-Dichlorobenzidine	< 1	< 1	< 1	< 1



LABORATORY REPORT

EAI ID#: **232248**

Client: **Sanborn, Head & Associates, Inc. (NH)**
 Client Designation: **Dalton | Groundwater | 1003.20**

Sample ID:	MW-12_20210916	MW-21U_20210916	MW-38_20210916	MW-39_20210916
Lab Sample ID:	232248.05	232248.06	232248.07	232248.08
Matrix:	aqueous	aqueous	aqueous	aqueous
Date Sampled:	9/16/21	9/16/21	9/16/21	9/16/21
Date Received:	9/17/21	9/17/21	9/17/21	9/17/21
Units:	ug/L	ug/L	ug/L	ug/L
Date of Extraction/Prep:	9/21/21	9/21/21	9/21/21	9/21/21
Date of Analysis:	9/21/21	9/21/21	9/21/21	9/21/21
Analyst:	JMR	JMR	JMR	JMR
Method:	8270D	8270D	8270D	8270D
Dilution Factor:	1	1	1	1
Pyridine	< 5	< 5	< 5	< 5
Azobenzene	< 1	< 1	< 1	< 1
Carbazole	< 1	< 1	< 1	< 1
Dimethylphthalate	< 1	< 1	< 1	< 1
Diethylphthalate	< 5	< 5	< 5	< 5
Di-n-butylphthalate	< 5	< 5	< 5	< 5
Butylbenzylphthalate	< 5	< 5	< 5	< 5
bis(2-Ethylhexyl)phthalate	< 5	< 5	< 5	< 5
Di-n-octylphthalate	< 5	< 5	< 5	< 5
Dibenzofuran	< 1	< 1	< 1	< 1
Naphthalene	< 0.1	< 0.1	< 0.1	< 0.1
2-Methylnaphthalene	< 0.1	< 0.1	< 0.1	< 0.1
1-Methylnaphthalene	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthene	< 0.1	< 0.1	< 0.1	< 0.1
Fluorene	< 0.1	< 0.1	< 0.1	< 0.1
Phenanthrene	< 0.1	< 0.1	< 0.1	< 0.1
Anthracene	< 0.1	< 0.1	< 0.1	< 0.1
Fluoranthene	< 0.1	< 0.1	< 0.1	< 0.1
Pyrene	< 0.1	< 0.1	< 0.1	< 0.1
Benzo[a]anthracene	< 0.1	< 0.1	< 0.1	< 0.1
Chrysene	< 0.1	< 0.1	< 0.1	< 0.1
Benzo[b]fluoranthene	< 0.1	< 0.1	< 0.1	< 0.1
Benzo[k]fluoranthene	< 0.1	< 0.1	< 0.1	< 0.1
Benzo[a]pyrene	< 0.1	< 0.1	< 0.1	< 0.1
Indeno[1,2,3-cd]pyrene	< 0.1	< 0.1	< 0.1	< 0.1
Dibenz[a,h]anthracene	< 0.1	< 0.1	< 0.1	< 0.1
Benzo[g,h,i]perylene	< 0.1	< 0.1	< 0.1	< 0.1
n-Decane	< 5	< 5	< 5	< 5
n-Octadecane	< 5	< 5	< 5	< 5
2-Fluorophenol (surr)	21 %R	38 %R	44 %R	38 %R
Phenol-d6 (surr)	16 %R	26 %R	31 %R	26 %R
2,4,6-Tribromophenol (surr)	48 %R	67 %R	79 %R	80 %R
Nitrobenzene-D5 (surr)	38 %R	67 %R	76 %R	71 %R
2-Fluorobiphenyl (surr)	40 %R	67 %R	79 %R	73 %R
p-Terphenyl-D14 (surr)	62 %R	68 %R	56 %R	73 %R



LABORATORY REPORT

EAI ID#: 232248

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Dalton | Groundwater | 1003.20**

Sample ID: MW-39R_20210916 GWDUP-1_20210916

Lab Sample ID:	232248.09	232248.1
Matrix:	aqueous	aqueous
Date Sampled:	9/16/21	9/16/21
Date Received:	9/17/21	9/17/21
Units:	ug/L	ug/L
Date of Extraction/Prep:	9/21/21	9/21/21
Date of Analysis:	9/21/21	9/21/21
Analyst:	JMR	JMR
Method:	8270D	8270D
Dilution Factor:	1	1
alpha-Terpineol	< 5	< 5
Phenol	< 1	< 1
2-Chlorophenol	< 1	< 1
2,4-Dichlorophenol	< 1	< 1
2,4,5-Trichlorophenol	< 1	< 1
2,4,6-Trichlorophenol	< 1	< 1
Pentachlorophenol	< 5	< 5
2-Nitrophenol	< 5	< 5
4-Nitrophenol	< 5	< 5
2,4-Dinitrophenol	< 10	< 10
2-Methylphenol	< 1	< 1
3/4-Methylphenol	< 1	< 1
2,4-Dimethylphenol	< 5	< 5
4-Chloro-3-methylphenol	< 1	< 1
4,6-Dinitro-2-methylphenol	< 5	< 5
Benzoic Acid	< 50	< 50
N-Nitrosodimethylamine	< 1	< 1
n-Nitroso-di-n-propylamine	< 0.5	< 0.5
n-Nitrosodiphenylamine	< 1	< 1
bis(2-Chloroethyl)ether	< 1	< 1
bis(2-chloroisopropyl)ether	< 1	< 1
bis(2-Chloroethoxy)methane	< 1	< 1
1,3-Dichlorobenzene	< 1	< 1
Acetophenone	< 10	< 10
1,4-Dichlorobenzene	< 1	< 1
1,2-Dichlorobenzene	< 1	< 1
1,2,4-Trichlorobenzene	< 1	< 1
2-Chloronaphthalene	< 1	< 1
4-Chlorophenyl-phenylether	< 1	< 1
4-Bromophenyl-phenylether	< 1	< 1
Hexachloroethane	< 1	< 1
Hexachlorobutadiene	< 1	< 1
Hexachlorocyclopentadiene	< 5	< 5
Hexachlorobenzene	< 1	< 1
4-Chloroaniline	< 1	< 1
2,3-Dichloroaniline	< 1	< 1
2-Nitroaniline	< 5	< 5
3-Nitroaniline	< 5	< 5
4-Nitroaniline	< 5	< 5
Aniline	< 1	< 1
Benzyl alcohol	< 10	< 10
Nitrobenzene	< 1	< 1
Isophorone	< 1	< 1
2,4-Dinitrotoluene	< 2	< 2
2,6-Dinitrotoluene	< 2	< 2
Benzydine (estimated)	< 5	< 5
3,3'-Dichlorobenzidine	< 1	< 1



LABORATORY REPORT

EAI ID#: 232248

Client: **Sanborn, Head & Associates, Inc. (NH)**
 Client Designation: **Dalton | Groundwater | 1003.20**

Sample ID: MW-39R_20210916 GWDUP-1_20210916

Lab Sample ID:	232248.09	232248.1
Matrix:	aqueous	aqueous
Date Sampled:	9/16/21	9/16/21
Date Received:	9/17/21	9/17/21
Units:	ug/L	ug/L
Date of Extraction/Prep:	9/21/21	9/21/21
Date of Analysis:	9/21/21	9/21/21
Analyst:	JMR	JMR
Method:	8270D	8270D
Dilution Factor:	1	1
Pyridine	< 5	< 5
Azobenzene	< 1	< 1
Carbazole	< 1	< 1
Dimethylphthalate	< 1	< 1
Diethylphthalate	< 5	< 5
Di-n-butylphthalate	< 5	< 5
Butylbenzylphthalate	< 5	< 5
bis(2-Ethylhexyl)phthalate	< 5	< 5
Di-n-octylphthalate	< 5	< 5
Dibenzofuran	< 1	< 1
Naphthalene	< 0.1	< 0.1
2-Methylnaphthalene	< 0.1	< 0.1
1-Methylnaphthalene	< 0.1	< 0.1
Acenaphthylene	< 0.1	< 0.1
Acenaphthene	< 0.1	< 0.1
Fluorene	< 0.1	< 0.1
Phenanthrene	< 0.1	< 0.1
Anthracene	< 0.1	< 0.1
Fluoranthene	< 0.1	< 0.1
Pyrene	< 0.1	< 0.1
Benzo[a]anthracene	< 0.1	< 0.1
Chrysene	< 0.1	< 0.1
Benzo[b]fluoranthene	< 0.1	< 0.1
Benzo[k]fluoranthene	< 0.1	< 0.1
Benzo[a]pyrene	< 0.1	< 0.1
Indeno[1,2,3-cd]pyrene	< 0.1	< 0.1
Dibenz[a,h]anthracene	< 0.1	< 0.1
Benzo[g,h,i]perylene	< 0.1	< 0.1
n-Decane	< 5	< 5
n-Octadecane	< 5	< 5
2-Fluorophenol (surr)	35 %R	34 %R
Phenol-d6 (surr)	25 %R	24 %R
2,4,6-Tribromophenol (surr)	75 %R	90 %R
Nitrobenzene-D5 (surr)	62 %R	68 %R
2-Fluorobiphenyl (surr)	65 %R	71 %R
p-Terphenyl-D14 (surr)	52 %R	86 %R



QC REPORT

EAI ID#: 232248

Client: Sanborn, Head & Associates, Inc. (NH)

Batch ID: 637678-07932/A092121ABN1

Client Designation: Dalton | Groundwater | 1003.20

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
alpha-Terpineol	< 5	19 (75 %R)	18 (73 %R) (2 RPD)	9/21/2021	ug/L	40 - 140	20	8270D
Phenol	< 1	14 (28 %R)	14 (27 %R) (2 RPD)	9/21/2021	ug/L	15 - 130	20	8270D
2-Chlorophenol	< 1	34 (68 %R)	35 (70 %R) (2 RPD)	9/21/2021	ug/L	30 - 130	20	8270D
2,4-Dichlorophenol	< 1	39 (78 %R)	39 (77 %R) (1 RPD)	9/21/2021	ug/L	30 - 130	20	8270D
2,4,5-Trichlorophenol	< 1	37 (75 %R)	37 (75 %R) (0 RPD)	9/21/2021	ug/L	30 - 130	20	8270D
2,4,6-Trichlorophenol	< 1	37 (74 %R)	37 (73 %R) (1 RPD)	9/21/2021	ug/L	30 - 130	20	8270D
Pentachlorophenol	< 5	35 (69 %R)	35 (70 %R) (1 RPD)	9/21/2021	ug/L	30 - 130	20	8270D
2-Nitrophenol	< 5	35 (69 %R)	37 (74 %R) (7 RPD)	9/21/2021	ug/L	30 - 130	20	8270D
4-Nitrophenol	< 5	15 (30 %R)	15 (30 %R) (1 RPD)	9/21/2021	ug/L	15 - 130	20	8270D
2,4-Dinitrophenol	< 10	33 (66 %R)	34 (69 %R) (5 RPD)	9/21/2021	ug/L	15 - 130	20	8270D
2-Methylphenol	< 1	33 (66 %R)	33 (65 %R) (0 RPD)	9/21/2021	ug/L	30 - 130	20	8270D
3/4-Methylphenol	< 1	33 (65 %R)	32 (64 %R) (3 RPD)	9/21/2021	ug/L	30 - 130	20	8270D
2,4-Dimethylphenol	< 5	37 (75 %R)	37 (74 %R) (1 RPD)	9/21/2021	ug/L	30 - 130	20	8270D
4-Chloro-3-methylphenol	< 1	39 (78 %R)	38 (76 %R) (2 RPD)	9/21/2021	ug/L	30 - 130	20	8270D
4,6-Dinitro-2-methylphenol	< 5	38 (76 %R)	40 (80 %R) (5 RPD)	9/21/2021	ug/L	30 - 130	20	8270D
Benzoic Acid	< 50	< 50 (24 %R)	< 50 (18 %R) (27 RPD)	9/21/2021	ug/L	15 - 130	20	8270D
N-Nitrosodimethylamine	< 1	11 (43 %R)	11 (46 %R) (5 RPD)	9/21/2021	ug/L	15 - 140	20	8270D
n-Nitroso-di-n-propylamine	< 0.5	18 (74 %R)	19 (74 %R) (0 RPD)	9/21/2021	ug/L	40 - 140	20	8270D
n-Nitrosodiphenylamine	< 1	19 (75 %R)	19 (74 %R) (1 RPD)	9/21/2021	ug/L	40 - 140	20	8270D
bis(2-Chloroethyl)ether	< 1	17 (67 %R)	18 (71 %R) (6 RPD)	9/21/2021	ug/L	40 - 140	20	8270D
bis(2-chloroisopropyl)ether	< 1	17 (66 %R)	17 (69 %R) (3 RPD)	9/21/2021	ug/L	40 - 140	20	8270D
bis(2-Chloroethoxy)methane	< 1	18 (72 %R)	18 (73 %R) (1 RPD)	9/21/2021	ug/L	40 - 140	20	8270D
1,3-Dichlorobenzene	< 1	12 (48 %R)	13 (51 %R) (6 RPD)	9/21/2021	ug/L	40 - 140	20	8270D
Acetophenone	< 10	18 (72 %R)	18 (74 %R) (2 RPD)	9/21/2021	ug/L	40 - 140	20	8270D
1,4-Dichlorobenzene	< 1	12 (48 %R)	13 (52 %R) (6 RPD)	9/21/2021	ug/L	40 - 140	20	8270D
1,2-Dichlorobenzene	< 1	13 (51 %R)	14 (54 %R) (6 RPD)	9/21/2021	ug/L	40 - 140	20	8270D
1,2,4-Trichlorobenzene	< 1	14 (54 %R)	14 (55 %R) (2 RPD)	9/21/2021	ug/L	40 - 140	20	8270D
2-Chloronaphthalene	< 1	16 (65 %R)	16 (63 %R) (3 RPD)	9/21/2021	ug/L	40 - 140	20	8270D
4-Chlorophenyl-phenylether	< 1	18 (72 %R)	18 (70 %R) (2 RPD)	9/21/2021	ug/L	40 - 140	20	8270D
4-Bromophenyl-phenylether	< 1	19 (74 %R)	18 (73 %R) (1 RPD)	9/21/2021	ug/L	40 - 140	20	8270D
Hexachloroethane	< 1	12 (48 %R)	13 (51 %R) (6 RPD)	9/21/2021	ug/L	40 - 140	20	8270D
Hexachlorobutadiene	< 1	12 (50 %R)	13 (51 %R) (3 RPD)	9/21/2021	ug/L	40 - 140	20	8270D
Hexachlorocyclopentadiene	< 5	8.9 (36 %R)	9.3 (37 %R) (4 RPD)	9/21/2021	ug/L	15 - 140	20	8270D
Hexachlorobenzene	< 1	19 (75 %R)	19 (75 %R) (1 RPD)	9/21/2021	ug/L	40 - 140	20	8270D
4-Chloroaniline	< 1	19 (75 %R)	18 (74 %R) (1 RPD)	9/21/2021	ug/L	15 - 140	20	8270D
2,3-Dichloroaniline	< 1	18 (73 %R)	18 (72 %R) (1 RPD)	9/21/2021	ug/L	40 - 140	20	8270D
2-Nitroaniline	< 5	18 (70 %R)	18 (71 %R) (2 RPD)	9/21/2021	ug/L	40 - 140	20	8270D
3-Nitroaniline	< 5	19 (76 %R)	19 (75 %R) (1 RPD)	9/21/2021	ug/L	40 - 140	20	8270D
4-Nitroaniline	< 5	20 (78 %R)	20 (78 %R) (0 RPD)	9/21/2021	ug/L	40 - 140	20	8270D
Aniline	< 1	15 (60 %R)	16 (65 %R) (7 RPD)	9/21/2021	ug/L	40 - 140	20	8270D
Benzyl alcohol	< 10	16 (63 %R)	16 (62 %R) (1 RPD)	9/21/2021	ug/L	40 - 140	20	8270D
Nitrobenzene	< 1	17 (69 %R)	18 (72 %R) (5 RPD)	9/21/2021	ug/L	40 - 140	20	8270D
Isophorone	< 1	19 (74 %R)	18 (74 %R) (0 RPD)	9/21/2021	ug/L	40 - 140	20	8270D
2,4-Dinitrotoluene	< 2	19 (76 %R)	20 (79 %R) (3 RPD)	9/21/2021	ug/L	40 - 140	20	8270D
2,6-Dinitrotoluene	< 2	19 (76 %R)	20 (78 %R) (2 RPD)	9/21/2021	ug/L	40 - 140	20	8270D
Benzidine (estimated)	< 5	5.4 (22 %R)	12 (49 %R) (77 RPD)	9/21/2021	ug/L	1 - 200	50	8270D



QC REPORT

EAI ID#: 232248

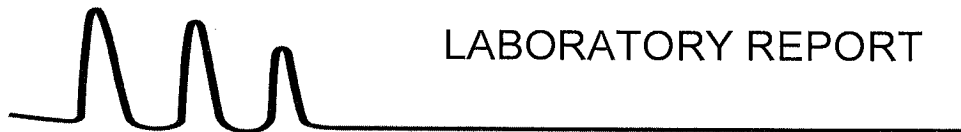
Client: Sanborn, Head & Associates, Inc. (NH)

Batch ID: 637678-07932/A092121ABN1

Client Designation: Dalton | Groundwater | 1003.20

Parameter Name	Blank	LCS	LCS/D	Analysis Date	Units	Limits	RPD	Method
3,3'-Dichlorobenzidine	< 1	18 (71 %R)	18 (70 %R) (1 RPD)	9/21/2021	ug/L	40 - 140	20	8270D
Pyridine	< 5	5.6 (22 %R)	7.6 (30 %R) (30 RPD)	9/21/2021	ug/L	15 - 140	20	8270D
Azobenzene	< 1	20 (79 %R)	19 (78 %R) (2 RPD)	9/21/2021	ug/L	40 - 140	20	8270D
Carbazole	< 1	20 (79 %R)	20 (80 %R) (1 RPD)	9/21/2021	ug/L	40 - 140	20	8270D
Dimethylphthalate	< 1	19 (77 %R)	19 (78 %R) (1 RPD)	9/21/2021	ug/L	40 - 140	20	8270D
Diethylphthalate	< 5	19 (75 %R)	19 (76 %R) (2 RPD)	9/21/2021	ug/L	40 - 140	20	8270D
Di-n-butylphthalate	< 5	21 (83 %R)	21 (84 %R) (2 RPD)	9/21/2021	ug/L	40 - 140	20	8270D
Butylbenzylphthalate	< 5	18 (74 %R)	19 (76 %R) (3 RPD)	9/21/2021	ug/L	40 - 140	20	8270D
bis(2-Ethylhexyl)phthalate	< 5	19 (76 %R)	19 (76 %R) (0 RPD)	9/21/2021	ug/L	40 - 140	20	8270D
Di-n-octylphthalate	< 5	19 (78 %R)	20 (78 %R) (1 RPD)	9/21/2021	ug/L	40 - 140	20	8270D
Dibenzofuran	< 1	18 (72 %R)	18 (71 %R) (1 RPD)	9/21/2021	ug/L	40 - 140	20	8270D
Naphthalene	< 0.1	16 (65 %R)	16 (65 %R) (0 RPD)	9/21/2021	ug/L	40 - 140	20	8270D
2-Methylnaphthalene	< 0.1	17 (66 %R)	16 (65 %R) (2 RPD)	9/21/2021	ug/L	40 - 140	20	8270D
1-Methylnaphthalene	< 0.1	17 (67 %R)	16 (65 %R) (3 RPD)	9/21/2021	ug/L	40 - 140	20	8270D
Acenaphthylene	< 0.1	18 (73 %R)	18 (72 %R) (2 RPD)	9/21/2021	ug/L	40 - 140	20	8270D
Acenaphthene	< 0.1	19 (78 %R)	19 (76 %R) (2 RPD)	9/21/2021	ug/L	40 - 140	20	8270D
Fluorene	< 0.1	19 (76 %R)	19 (75 %R) (2 RPD)	9/21/2021	ug/L	40 - 140	20	8270D
Phenanthrene	< 0.1	20 (81 %R)	20 (81 %R) (0 RPD)	9/21/2021	ug/L	40 - 140	20	8270D
Anthracene	< 0.1	20 (82 %R)	20 (81 %R) (1 RPD)	9/21/2021	ug/L	40 - 140	20	8270D
Fluoranthene	< 0.1	21 (83 %R)	21 (84 %R) (1 RPD)	9/21/2021	ug/L	40 - 140	20	8270D
Pyrene	< 0.1	21 (83 %R)	21 (83 %R) (1 RPD)	9/21/2021	ug/L	40 - 140	20	8270D
Benzo[a]anthracene	< 0.1	19 (78 %R)	19 (78 %R) (0 RPD)	9/21/2021	ug/L	40 - 140	20	8270D
Chrysene	< 0.1	21 (82 %R)	20 (82 %R) (1 RPD)	9/21/2021	ug/L	40 - 140	20	8270D
Benzo[b]fluoranthene	< 0.1	21 (82 %R)	21 (82 %R) (0 RPD)	9/21/2021	ug/L	40 - 140	20	8270D
Benzo[k]fluoranthene	< 0.1	21 (86 %R)	21 (85 %R) (0 RPD)	9/21/2021	ug/L	40 - 140	20	8270D
Benzo[a]pyrene	< 0.1	20 (80 %R)	20 (80 %R) (0 RPD)	9/21/2021	ug/L	40 - 140	20	8270D
Indeno[1,2,3-cd]pyrene	< 0.1	20 (81 %R)	20 (80 %R) (0 RPD)	9/21/2021	ug/L	40 - 140	20	8270D
Dibenz[a,h]anthracene	< 0.1	21 (85 %R)	22 (86 %R) (2 RPD)	9/21/2021	ug/L	40 - 140	20	8270D
Benzo[g,h,i]perylene	< 0.1	21 (83 %R)	21 (82 %R) (0 RPD)	9/21/2021	ug/L	40 - 140	20	8270D
n-Decane	< 5	10 (41 %R)	11 (44 %R) (6 RPD)	9/21/2021	ug/L	40 - 140	20	8270D
n-Octadecane	< 5	20 (80 %R)	20 (78 %R) (2 RPD)	9/21/2021	ug/L	40 - 140	20	8270D
2-Fluorophenol (surr)	41 %R	38 %R	38 %R	9/21/2021	% Rec	15 - 110		8270D
Phenol-d6 (surr)	27 %R	26 %R	26 %R	9/21/2021	% Rec	15 - 110		8270D
2,4,6-Tribromophenol (surr)	69 %R	77 %R	76 %R	9/21/2021	% Rec	15 - 110		8270D
Nitrobenzene-D5 (surr)	75 %R	68 %R	72 %R	9/21/2021	% Rec	30 - 130		8270D
2-Fluorobiphenyl (surr)	77 %R	71 %R	71 %R	9/21/2021	% Rec	30 - 130		8270D
p-Terphenyl-D14 (surr)	86 %R	80 %R	79 %R	9/21/2021	% Rec	30 - 130		8270D

*/I Flagged analyte recoveries deviated from the QA/QC limits. Data that impacts sample results are noted on the sample report.



LABORATORY REPORT

EAI ID#: **232248**

Client: **Sanborn, Head & Associates, Inc. (NH)**
 Client Designation: **Dalton | Groundwater | 1003.20**

Sample ID:	MW-5_20210916	MW-6_20210916	MW-7_20210916	MW-11_20210916
Lab Sample ID:	232248.01	232248.02	232248.03	232248.04
Matrix:	aqueous	aqueous	aqueous	aqueous
Date Sampled:	9/16/21	9/16/21	9/16/21	9/16/21
Date Received:	9/17/21	9/17/21	9/17/21	9/17/21
Units:	ug/L	ug/L	ug/L	ug/L
Date of Extraction/Prep:	9/23/21	9/23/21	9/23/21	9/23/21
Date of Analysis:	9/23/21	9/23/21	9/23/21	9/23/21
Analyst:	AR	AR	AR	AR
Method:	8011/504	8011/504	8011/504	8011/504
Dilution Factor:	1	1	1	1
1,2-Dibromoethane(EDB)	< 0.02	< 0.02	< 0.02	< 0.02
Dibromochloropropane (DBCP)	< 0.02	< 0.02	< 0.02	< 0.02
1,1,1,2-Tetrachloroethane (surr)	97 %R	101 %R	103 %R	103 %R



LABORATORY REPORT

EAI ID#: **232248**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Dalton | Groundwater | 1003.20**

Sample ID:	MW-12_20210916	MW-21U_20210916	MW-38_20210916	MW-39_20210916
Lab Sample ID:	232248.05	232248.06	232248.07	232248.08
Matrix:	aqueous	aqueous	aqueous	aqueous
Date Sampled:	9/16/21	9/16/21	9/16/21	9/16/21
Date Received:	9/17/21	9/17/21	9/17/21	9/17/21
Units:	ug/L	ug/L	ug/L	ug/L
Date of Extraction/Prep:	9/23/21	9/23/21	9/23/21	9/23/21
Date of Analysis:	9/23/21	9/23/21	9/23/21	9/23/21
Analyst:	AR	AR	AR	AR
Method:	8011/504	8011/504	8011/504	8011/504
Dilution Factor:	1	1	1	1
1,2-Dibromoethane(EDB)	< 0.02	< 0.02	< 0.02	< 0.02
Dibromochloropropane (DBCP)	< 0.02	< 0.02	< 0.02	< 0.02
1,1,1,2-Tetrachloroethane (surr)	105 %R	101 %R	90 %R	99 %R



LABORATORY REPORT

EAI ID#: **232248**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Dalton | Groundwater | 1003.20**

Sample ID: MW-39R_20210916 GWDUP-1_20210916

Lab Sample ID:	232248.09	232248.1
Matrix:	aqueous	aqueous
Date Sampled:	9/16/21	9/16/21
Date Received:	9/17/21	9/17/21
Units:	ug/L	ug/L
Date of Extraction/Prep:	9/23/21	9/23/21
Date of Analysis:	9/23/21	9/23/21
Analyst:	AR	AR
Method:	8011/504	8011/504
Dilution Factor:	1	1
1,2-Dibromoethane(EDB)	< 0.02	< 0.02
Dibromochloropropane (DBCP)	< 0.02	< 0.02
1,1,1,2-Tetrachloroethane (surr)	101 %R	104 %R



QC REPORT

EAI ID#: **232248**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Batch ID: 637679-82329/A092321E5041

Client Designation: **Dalton | Groundwater | 1003.20**

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
1,2-Dibromoethane(EDB)	< 0.02	0.10 (101 %R)	0.093 (93 %R) (9 RPD)	9/23/2021	ug/L	70 - 130	20	8011/504
Dibromochloropropane (DBCP)	< 0.02	0.10 (103 %R)	0.094 (94 %R) (10 RPD)	9/23/2021	ug/L	70 - 130	20	8011/504
1,1,1,2-Tetrachloroethane (surr)	101 %R	105 %R	96 %R	9/23/2021	% Rec	65 - 135	20	8011/504

*// Flagged analyte recoveries deviated from the QA/QC limits. Data that impacts sample results are noted on the sample report.



LABORATORY REPORT

EAI ID#: 232248

Client: **Sanborn, Head & Associates, Inc. (NH)**
 Client Designation: **Dalton | Groundwater | 1003.20**

Sample ID:	MW-5_20210916	MW -6_20210916	MW -7_20210916	MW -11_20210916					
Lab Sample ID:	232248.01	232248.02	232248.03	232248.04					
Matrix:	aqueous	aqueous	aqueous	aqueous					
Date Sampled:	9/16/21	9/16/21	9/16/21	9/16/21					
Date Received:	9/17/21	9/17/21	9/17/21	9/17/21					
					Units	Analysis		Method	Analyst
Sulfate	4.5	14	4.9	5.9	mg/L	09/21/21	6:19	300.0	LLG
Chloride	< 1	< 1	< 1	< 1	mg/L	09/21/21	6:19	300.0	LLG
Nitrate-N	< 0.5	< 0.5	< 0.5	< 0.5	mg/L	09/17/21	13:01	353.2	KD
TKN	< 0.5	< 0.5	< 0.5	< 0.5	mg/L	09/29/21	14:18	4500N _{org} C/NH3D	SEL
COD	< 10	< 10	< 10	< 10	mg/L	09/20/21	10:55	H8000	JCS
Dissolved Organic Carbon	6.1	0.77	0.83	2.0	mg/L	09/21/21	13:21	5310C-00	LO

Sample ID:	MW-12_20210916	MW -21U_20210916	MW -38_20210916	MW -39_20210916					
Lab Sample ID:	232248.05	232248.06	232248.07	232248.08					
Matrix:	aqueous	aqueous	aqueous	aqueous					
Date Sampled:	9/16/21	9/16/21	9/16/21	9/16/21					
Date Received:	9/17/21	9/17/21	9/17/21	9/17/21					
					Units	Analysis		Method	Analyst
Sulfate	4.5	6.4	4.7	180	mg/L	09/21/21	7:20	300.0	LLG
Chloride	< 1	< 1	< 1	5.6	mg/L	09/21/21	7:20	300.0	LLG
Nitrate-N	< 0.5	< 0.5	< 0.5	< 5	mg/L	09/17/21	13:06	353.2	KD
TKN	< 0.5	< 0.5	< 0.5	< 0.5	mg/L	09/29/21	14:43	4500N _{org} C/NH3D	SEL
COD	< 10	< 10	< 10	69	mg/L	09/20/21	10:55	H8000	JCS
Dissolved Organic Carbon	0.79	2.0	0.87	3.0	mg/L	09/21/21	14:01	5310C-00	LO

MW-39_20210916: The reporting limit for Nitrate-N has been elevated due to the sample matrix.



LABORATORY REPORT

EAI ID#: 232248

Client: **Sanborn, Head & Associates, Inc. (NH)**
 Client Designation: **Dalton | Groundwater | 1003.20**

Sample ID: MW GWDUP
 -39R_20210916 -1_20210916

Lab Sample ID: 232248.09 232248.1

Matrix: aqueous aqueous

Date Sampled: 9/16/21 9/16/21

Date Received: 9/17/21 9/17/21

Sulfate	8.6	4.7
Chloride	< 1	< 1
Nitrate-N	< 0.5	< 0.5
TKN	< 0.5	< 0.5
COD	< 10	12
Dissolved Organic Carbon	1.8	6.4

Units	Analysis		Method	Analyst
	Date	Time		
mg/L	9/27/21	15:37	300.0	KD
mg/L	9/27/21	15:37	300.0	KD
mg/L	9/17/21	13:26	353.2	KD
mg/L	9/29/21	14:54	4500N _{org} C/NH3D	SEL
mg/L	9/20/21	10:55	H8000	JCS
mg/L	9/21/21	19:11	5310C-00	LO



QC REPORT

EAI ID#: 232248

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Dalton | Groundwater | 1003.20**

Parameter Name	Blank	LCS	LCSD	Units	Date of Analysis	Limits	RPD	Method
Sulfate	< 1	21 (105 %R)	20 (101 %R) (4 RPD)	mg/L	9/21/21	90 - 110	20	300.0
Chloride	< 1	21 (103 %R)	20 (100 %R) (3 RPD)	mg/L	9/20/21	90 - 110	20	300.0
Nitrate-N	< 0.5	4.8 (96 %R)	4.9 (98 %R) (2 RPD)	mg/L	9/17/21	90 - 110	20	353.2
TKN	< 0.5	10 (101 %R)	9.7 (97 %R) (4 RPD)	mg/L	9/29/21	90 - 111	20	4500N _{org} C/NH3D-11
COD	< 10	98 (98 %R)	97 (97 %R) (1 RPD)	mg/L	9/20/21	85 - 115	20	H8000
Dissolved Organic Carbon	< 0.5	9.4 (94 %R)	9.3 (93 %R) (1 RPD)	mg/L	9/21/21	90 - 110	20	5310C-00

*! Flagged analyte recoveries deviated from the QA/QC limits. Unless noted, flagged data does not impact the sample data.



LABORATORY REPORT

EAI ID#: **232248**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Dalton | Groundwater | 1003.20**

Sample ID:	MW-5_20210916	MW-6_20210916	MW-7_20210916	MW-11_20210916					
Lab Sample ID:	232248.01	232248.02	232248.03	232248.04					
Matrix:	aqueous	aqueous	aqueous	aqueous					
Date Sampled:	9/16/21	9/16/21	9/16/21	9/16/21	Analytical		Date of		
Date Received:	9/17/21	9/17/21	9/17/21	9/17/21	Matrix	Units	Analysis	Method	Analyst
Antimony	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	9/20/21	200.8	DS
Arsenic	0.0013	0.00068	< 0.0005	< 0.0005	AqDis	mg/L	9/20/21	200.8	DS
Barium	0.034	0.017	0.0094	0.026	AqDis	mg/L	9/20/21	200.8	DS
Beryllium	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	9/20/21	200.8	DS
Cadmium	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	9/20/21	200.8	DS
Chromium	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	9/20/21	200.8	DS
Copper	0.0015	0.0033	< 0.001	0.0027	AqDis	mg/L	9/20/21	200.8	DS
Iron	0.10	0.099	< 0.05	0.073	AqDis	mg/L	9/20/21	200.8	DS
Lead	< 0.001	< 0.001	0.0016	< 0.001	AqDis	mg/L	9/20/21	200.8	DS
Magnesium	2.1	0.97	0.99	0.35	AqDis	mg/L	9/20/21	200.8	DS
Manganese	2.8	0.013	< 0.005	0.033	AqDis	mg/L	9/20/21	200.8	DS
Mercury	< 0.0001	0.00011	< 0.0001	< 0.0001	AqDis	mg/L	9/20/21	200.8	DS
Nickel	0.0017	< 0.001	< 0.001	0.0011	AqDis	mg/L	9/20/21	200.8	DS
Potassium	3.4	1.2	1.2	1.9	AqDis	mg/L	9/20/21	200.8	DS
Silver	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	9/20/21	200.8	DS
Thallium	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	9/20/21	200.8	DS
Antimony	< 0.001	< 0.001	< 0.001	< 0.001	AqTot	mg/L	9/20/21	200.8	DS
Arsenic	0.0037	0.0013	0.0041	0.011	AqTot	mg/L	9/20/21	200.8	DS
Barium	0.052	0.051	0.12	0.35	AqTot	mg/L	9/20/21	200.8	DS
Beryllium	< 0.001	< 0.001	< 0.001	0.0019	AqTot	mg/L	9/20/21	200.8	DS
Cadmium	< 0.001	< 0.001	< 0.001	< 0.001	AqTot	mg/L	9/20/21	200.8	DS
Chromium	0.0032	0.0043	0.023	0.040	AqTot	mg/L	9/20/21	200.8	DS
Copper	0.0045	0.0064	0.014	0.036	AqTot	mg/L	9/20/21	200.8	DS
Iron	2.6	3.3	13	28	AqTot	mg/L	9/20/21	200.8	DS
Lead	0.0026	0.0031	0.0090	0.039	AqTot	mg/L	9/20/21	200.8	DS
Magnesium	2.5	1.5	3.9	6.7	AqTot	mg/L	9/20/21	200.8	DS
Manganese	2.9	0.083	0.27	0.59	AqTot	mg/L	9/20/21	200.8	DS
Mercury	< 0.0001	< 0.0001	< 0.0001	< 0.0001	AqTot	mg/L	9/20/21	200.8	DS
Nickel	0.0055	0.0034	0.012	0.022	AqTot	mg/L	9/20/21	200.8	DS
Potassium	3.8	1.3	4.3	6.4	AqTot	mg/L	9/20/21	200.8	DS
Silver	< 0.001	< 0.001	< 0.001	< 0.001	AqTot	mg/L	9/20/21	200.8	DS
Thallium	< 0.001	< 0.001	< 0.001	< 0.001	AqTot	mg/L	9/20/21	200.8	DS



LABORATORY REPORT

EAI ID#: **232248**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Dalton | Groundwater | 1003.20**

Sample ID:	MW-12_20210916	MW -21U_20210916	MW -38_20210916	MW -39_20210916					
Lab Sample ID:	232248.05	232248.06	232248.07	232248.08					
Matrix:	aqueous	aqueous	aqueous	aqueous					
Date Sampled:	9/16/21	9/16/21	9/16/21	9/16/21	Analytical		Date of		
Date Received:	9/17/21	9/17/21	9/17/21	9/17/21	Matrix	Units	Analysis	Method	Analyst
Antimony	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	9/20/21	200.8	DS
Arsenic	< 0.0005	0.00093	0.00058	0.0040	AqDis	mg/L	9/20/21	200.8	DS
Barium	0.021	0.021	0.014	0.014	AqDis	mg/L	9/20/21	200.8	DS
Beryllium	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	9/20/21	200.8	DS
Cadmium	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	9/20/21	200.8	DS
Chromium	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	9/20/21	200.8	DS
Copper	0.0013	0.0024	0.0035	0.0017	AqDis	mg/L	9/20/21	200.8	DS
Iron	< 0.05	0.074	< 0.05	0.32	AqDis	mg/L	9/20/21	200.8	DS
Lead	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	9/20/21	200.8	DS
Magnesium	0.90	1.9	2.4	1.4	AqDis	mg/L	9/20/21	200.8	DS
Manganese	< 0.005	0.038	0.13	0.49	AqDis	mg/L	9/20/21	200.8	DS
Mercury	< 0.0001	0.00039	< 0.0001	< 0.0001	AqDis	mg/L	9/20/21	200.8	DS
Nickel	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	9/20/21	200.8	DS
Potassium	1.0	1.6	4.0	1.7	AqDis	mg/L	9/20/21	200.8	DS
Silver	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	9/20/21	200.8	DS
Thallium	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	9/20/21	200.8	DS
Antimony	< 0.001	< 0.001	< 0.001	< 0.001	AqTot	mg/L	9/20/21	200.8	DS
Arsenic	0.0043	0.021	0.018	0.046	AqTot	mg/L	9/20/21	200.8	DS
Barium	0.17	0.57	0.86	3.7	AqTot	mg/L	9/20/21	200.8	DS
Beryllium	< 0.001	0.0030	0.0032	0.011	AqTot	mg/L	9/20/21	200.8	DS
Cadmium	< 0.001	< 0.001	< 0.001	< 0.001	AqTot	mg/L	9/20/21	200.8	DS
Chromium	0.026	0.18	0.27	0.57	AqTot	mg/L	9/20/21	200.8	DS
Copper	0.020	0.13	0.12	0.38	AqTot	mg/L	9/20/21	200.8	DS
Iron	17	92	130	310	AqTot	mg/L	9/20/21	200.8	DS
Lead	0.012	0.081	0.076	0.23	AqTot	mg/L	9/20/21	200.8	DS
Magnesium	5.0	22	34	58	AqTot	mg/L	9/20/21	200.8	DS
Manganese	0.32	1.4	3.2	7.4	AqTot	mg/L	9/20/21	200.8	DS
Mercury	< 0.0001	0.00025	< 0.0001	0.00018	AqTot	mg/L	9/20/21	200.8	DS
Nickel	0.015	0.075	0.13	0.30	AqTot	mg/L	9/20/21	200.8	DS
Potassium	4.6	19	30	50	AqTot	mg/L	9/20/21	200.8	DS
Silver	< 0.001	< 0.001	< 0.001	< 0.001	AqTot	mg/L	9/20/21	200.8	DS
Thallium	< 0.001	0.0014	0.0017	0.0041	AqTot	mg/L	9/20/21	200.8	DS



LABORATORY REPORT

EAI ID#: **232248**

Client: **Sanborn, Head & Associates, Inc. (NH)**
 Client Designation: **Dalton | Groundwater | 1003.20**

Sample ID: MW-39R_20210916 GWDUP
 -1_20210916

Lab Sample ID: 232248.09 232248.1
 Matrix: aqueous aqueous
 Date Sampled: 9/16/21 9/16/21
 Date Received: 9/17/21 9/17/21

			Analytical Matrix	Units	Date of Analysis	Method	Analyst
Antimony	< 0.001	< 0.001	AqDis	mg/L	9/20/21	200.8	DS
Arsenic	0.0021	0.0013	AqDis	mg/L	9/20/21	200.8	DS
Barium	0.0084	0.036	AqDis	mg/L	9/20/21	200.8	DS
Beryllium	< 0.001	< 0.001	AqDis	mg/L	9/20/21	200.8	DS
Cadmium	< 0.001	< 0.001	AqDis	mg/L	9/20/21	200.8	DS
Chromium	< 0.001	< 0.001	AqDis	mg/L	9/20/21	200.8	DS
Copper	0.011	0.0035	AqDis	mg/L	9/20/21	200.8	DS
Iron	0.083	0.12	AqDis	mg/L	9/20/21	200.8	DS
Lead	< 0.001	< 0.001	AqDis	mg/L	9/20/21	200.8	DS
Magnesium	1.3	2.3	AqDis	mg/L	9/20/21	200.8	DS
Manganese	0.11	2.9	AqDis	mg/L	9/20/21	200.8	DS
Mercury	< 0.0001	< 0.0001	AqDis	mg/L	9/20/21	200.8	DS
Nickel	< 0.001	0.0016	AqDis	mg/L	9/20/21	200.8	DS
Potassium	1.6	3.6	AqDis	mg/L	9/20/21	200.8	DS
Silver	< 0.001	< 0.001	AqDis	mg/L	9/20/21	200.8	DS
Thallium	< 0.001	< 0.001	AqDis	mg/L	9/20/21	200.8	DS
Antimony	< 0.001	< 0.001	AqTot	mg/L	9/20/21	200.8	DS
Arsenic	0.023	0.0031	AqTot	mg/L	9/20/21	200.8	DS
Barium	1.0	0.051	AqTot	mg/L	9/20/21	200.8	DS
Beryllium	0.0038	< 0.001	AqTot	mg/L	9/21/21	200.8	DS
Cadmium	< 0.001	< 0.001	AqTot	mg/L	9/20/21	200.8	DS
Chromium	0.23	0.0032	AqTot	mg/L	9/20/21	200.8	DS
Copper	0.095	0.0045	AqTot	mg/L	9/20/21	200.8	DS
Iron	120	2.7	AqTot	mg/L	9/20/21	200.8	DS
Lead	0.13	0.0024	AqTot	mg/L	9/20/21	200.8	DS
Magnesium	25	2.5	AqTot	mg/L	9/20/21	200.8	DS
Manganese	2.7	3.1	AqTot	mg/L	9/20/21	200.8	DS
Mercury	0.00011	< 0.0001	AqTot	mg/L	9/20/21	200.8	DS
Nickel	0.063	0.0063	AqTot	mg/L	9/20/21	200.8	DS
Potassium	31	3.8	AqTot	mg/L	9/20/21	200.8	DS
Silver	< 0.001	< 0.001	AqTot	mg/L	9/20/21	200.8	DS
Thallium	0.0024	< 0.001	AqTot	mg/L	9/20/21	200.8	DS



QC REPORT

EAI ID#: 232248

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Dalton | Groundwater | 1003.20**

Parameter Name	Blank	LCS	LCSD	Units	Date of Analysis	Limits	RPD	Method
Antimony	< 0.001	1.1 (114 %R)		NA mg/L	9/20/21	85 - 115	20	200.8
Arsenic	< 0.0005	1.1 (107 %R)		NA mg/L	9/20/21	85 - 115	20	200.8
Barium	< 0.001	1.1 (108 %R)		NA mg/L	9/20/21	85 - 115	20	200.8
Beryllium	< 0.001	1.1 (112 %R)		NA mg/L	9/20/21	85 - 115	20	200.8
Cadmium	< 0.001	1.0 (102 %R)		NA mg/L	9/20/21	85 - 115	20	200.8
Chromium	< 0.001	1.0 (104 %R)		NA mg/L	9/20/21	85 - 115	20	200.8
Copper	< 0.001	1.1 (105 %R)		NA mg/L	9/20/21	85 - 115	20	200.8
Iron	< 0.05	11 (96 %R)		NA mg/L	9/20/21	85 - 115	20	200.8
Lead	< 0.001	1.0 (105 %R)		NA mg/L	9/20/21	85 - 115	20	200.8
Magnesium	< 0.05	11 (97 %R)		NA mg/L	9/20/21	85 - 115	20	200.8
Manganese	< 0.005	1.0 (101 %R)		NA mg/L	9/20/21	85 - 115	20	200.8
Mercury	< 0.0001	0.0011 (110 %R)		NA mg/L	9/20/21	85 - 115	20	200.8
Nickel	< 0.001	1.0 (103 %R)		NA mg/L	9/20/21	85 - 115	20	200.8
Potassium	< 0.05	11 (99 %R)		NA mg/L	9/20/21	85 - 115	20	200.8
Silver	< 0.001	0.010 (104 %R)		NA mg/L	9/20/21	85 - 115	20	200.8
Thallium	< 0.001	1.0 (104 %R)		NA mg/L	9/20/21	85 - 115	20	200.8

Metals Aqueous Total QC

*! Flagged analyte recoveries deviated from the QA/QC limits. Unless noted, flagged data does not impact the sample data.



QC REPORT

EAI ID#: 232248

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Dalton | Groundwater | 1003.20**

Parameter Name	Blank	LCS	LCSD	Units	Date of Analysis	Limits	RPD	Method
Antimony	< 0.001	0.21 (104 %R)	NA	mg/L	9/20/21	85 - 115	20	200.8
Arsenic	< 0.0005	0.21 (104 %R)	NA	mg/L	9/20/21	85 - 115	20	200.8
Barium	< 0.001	0.21 (104 %R)	NA	mg/L	9/20/21	85 - 115	20	200.8
Beryllium	< 0.001	0.22 (112 %R)	NA	mg/L	9/20/21	85 - 115	20	200.8
Cadmium	< 0.001	0.20 (100 %R)	NA	mg/L	9/20/21	85 - 115	20	200.8
Chromium	< 0.001	0.21 (104 %R)	NA	mg/L	9/20/21	85 - 115	20	200.8
Copper	< 0.001	0.20 (102 %R)	NA	mg/L	9/20/21	85 - 115	20	200.8
Iron	< 0.05	9.9 (97 %R)	NA	mg/L	9/20/21	85 - 115	20	200.8
Lead	< 0.001	0.20 (102 %R)	NA	mg/L	9/20/21	85 - 115	20	200.8
Magnesium	< 0.05	10 (99 %R)	NA	mg/L	9/20/21	85 - 115	20	200.8
Manganese	< 0.005	0.20 (101 %R)	NA	mg/L	9/20/21	85 - 115	20	200.8
Mercury	< 0.0001	0.00097 (98 %R)	NA	mg/L	9/20/21	85 - 115	20	200.8
Nickel	< 0.001	0.21 (103 %R)	NA	mg/L	9/20/21	85 - 115	20	200.8
Potassium	< 0.05	10 (100 %R)	NA	mg/L	9/20/21	85 - 115	20	200.8
Silver	< 0.001	0.17 (86 %R)	NA	mg/L	9/20/21	85 - 115	20	200.8
Thallium	< 0.001	0.21 (104 %R)	NA	mg/L	9/20/21	85 - 115	20	200.8

Metals Aqueous Dissolved QC

*!/ Flagged analyte recoveries deviated from the QA/QC limits. Unless noted, flagged data does not impact the sample data.

Chain-of-Custody Record

For Lab U

232248

Sample ID	Sampling Date/Time <i>*If Composite, Indicate Both Start & Finish Date/Time</i>		Matrix (see below)	Grab/*Composite	Analyses Requested													# of Containers	NOTES MeOH Vial #		
	VOCs - EPA 826C	Low Level 1,4-Dioxane (USEPA 8260B-SM)			Low Level EDR/DBCP (504.1)	SVOCs (EPA 8270D)	COD (SM 6220D)	DOC (5310C) *	Chloride, Nitrate, Sulfate (EPA 300.0)	TKN (SM4500Norg/CINH30)	Dissolved Metals List A (EPA 200.8)	Total Metals List A (EPA 200.8)									
MW-5_20210916	9/16/21	0953	GW	G	X	X	X	X	X	X	X	X	X	X						12	
6		1300	GW	G																	
7		1012	GW	G																	
11		0845	GW	G																	
12		0929	GW	G																	
21U		1145	GW	G																	
38		1200	GW	G																	
39		1105	GW	G																	
↓ 39R		1120	GW	G																	
GWDUP-1 ↓		0953	GW	G	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓							↓
Matrix: A-Air; S-Soil; GW-Ground Water; SW-Surface Water; DW-Drinking Water; WW-Waste Water; AQ-Aqueous					H	Ice	NSO	Ice	S	Ice	S	S	N	N							
Preservative: H-HCl; N-HNO3; S-H2SO4; Na-NaOH; M-MeOH; NSO-Na2S2O3																					

Project Manager: T. White
 Company: Sanborn, Head & Associates, Inc.
 Address: 20 Foundry Street
 City: Concord State: NH Zip: 03301
 Phone: 603-229-1900 Ext.:
 Fax: 603-229-1919
 E-Mail: twhite@sanbornhead.com
 Site Name: Dalton | Groundwater
 Project #: 1003.20
 State: NH
 Regulatory Program: NPDES: RGP POTW Stormwater or GWP, Oil Fund, Brownfield or Other:
 Quote #: PO#:

Date Needed: Standard TAT
 Temp: 15 °C
 Ice? Yes No
 Reporting Options: Prelims: Yes or No
 if Yes: Fax or PDF
 Electronic Options: No Fax E-Mail PDF Equis
 Reporting Level: A B C
 or
 Presumptive Certainty
 Sampler(s): [Signature] MTS, GAP 9-17-21 8:30
 Date: 9/16/21 1825
 Relinquished By: [Signature] Date: 9-17-21 Time: 9:35 Received By: [Signature]
 Relinquished By: Date: Time: Received By:
 Relinquished By: Date: Time: Received By:

Metals: Lists Below Samples Field Filtered: YES
 * To be filtered at lab
 A: Fe, Mn, As, Sb, Ba, Be, Cd, Cr, Cu, Pb, Hg, Ni, Ag, Tl, Mg, K
 B:
 Notes: (i.e., Special Detection Limits, Billing Info, If Different)
 Trip blank(s) prepared by EAI.
 Bill GSL:
 *Report 1,4-dioxane to 0.25 ug/l RL
 *Hold Final report until EQUIS EDD ready.
 Field Readings:



Chain-of-Custody Record

Sample ID	Sampling Date/Time *If Composite, Indicate Both Start & Finish Date/Time	Matrix (see below)	Grab/*Composite	Analyses Requested																	# of Containers	NOTES MeOH Vial #		
				VOCs - EPA 8260C	Low Level 1,4-Dioxane (USEPA 8260B-SIM)	Low Level EDB/DBCP (504.1)	SVOCs (EPA 8270D)	COD (SM 5220D)	DOC (5310C)	Chloride, Nitrate, Sulfate (EPA 300.0)	TKN (SM4500NorgC/NH3D)	Dissolved Metals List A (EPA 200.8)	Total Metals List A (EPA 200.8)											
TB-GW-02 -20210916	9/16/21 1340	GW	G	X																			2	
TB-LL-GW-02 ↓	↓ 1340	GW	G	X																			2	
		GW	G																					
		GW	G																					
		GW	G																					
		GW	G																					
		GW	G																					
		GW	G																					
Matrix: A-Air; S-Soil; GW-Ground Water; SW-Surface Water; DW-Drinking Water; WW-Waste Water; AQ-Aqueous Preservative: H-HCl; N-HNO3; S-H2SO4; Na-NaOH; M-MeOH; NSO-Na2S2O3				H	Ice	NSC	Ice	S	Ice	S	S	N	N											

Project Manager: T. White

Company: Sanborn, Head & Associates, Inc.

Address: 20 Foundry Street

City: Concord State: NH Zip: 03301

Phone 603-229-1900 Ext.: _____

Fax: 603-229-1919

E-Mail: twhite@sanbornhead.com

Site Name: Dalton | Groundwater

Project # 1003.20

State: NH

Regulatory Program: NPDES: RGP POTW Stormwater or GWP, Oil Fund, Brownfield or Other:

Quote #: _____ PO#: _____

Date Needed: Standard TAT

Temp. 1.5 °C

Ice? Yes No

QA/QC Reporting Level: A B C

Reporting Options: Prelims: Yes or No

If Yes: Fax or PDF

Electronic Options: No Fax E-Mail PDF Equis

Presumptive Certainty

Sampler(s): MTS, GAP 9-17-21 8:30

9/16/21 1025 Lisa Benton

Relinquished By: Lisa Benton Date: 9-17-21 Time: 9:35 Received By: [Signature]

Relinquished By: _____ Date: _____ Time: _____ Received By: _____

Relinquished By: _____ Date: _____ Time: _____ Received By: _____

Metals: Lists Below Samples Field Filtered: YES

A: Fe, Mn, As, Sb, Ba, Be, Cd, Cr, Cu, Pb, Hg, Ni, Ag, Ti, Mg, K

B: _____

Notes: (i.e., Special Detection Limits, Billing Info, If Different)

Trip blank(s) prepared by EAI.

Bill GSL.

*Report 1,4-dioxane to 0.25 ug/l RL

*Hold Final report until EQUIS EDD ready.

Field Readings: _____



25 Chenell Drive | Concord, NH 03301 | Tel: 603.228.0525 | 1.800.287.0525 | Fax: 603.228.4591 | E-Mail: customerservice@eailabs.com | www.eailabs.com

Tim White
Sanborn, Head & Associates, Inc. (NH)
20 Foundry Street
Concord, NH 03301



Laboratory Report for:

Eastern Analytical, Inc. ID: 232083
Client Identification: Dalton | Surface Water | 1003.20
Date Received: 9/15/2021

Enclosed are the analytical results per the Chain of Custody for sample(s) in the referenced project. All analyses were performed in accordance with our QA/QC Program, NELAP and other applicable state requirements. All quality control criteria was within acceptance criteria unless noted on the report pages. Results are for the exclusive use of the client named on this report and will not be released to a third party without consent.

The following information is contained within this report: Sample Conditions summary, Analytical Results/Data, Quality Control data (if requested) and copies of the Chain of Custody. This report may not be reproduced except in full, without the written approval of the laboratory.

The following standard abbreviations and conventions apply to all EAI reports:

- < : "less than" followed by the reporting limit
- > : "greater than" followed by the reporting limit
- %R : % Recovery

Certifications:

Eastern Analytical, Inc. maintains certification in the following states: Connecticut (PH-0492), Maine (NH005), Massachusetts (M-NH005), New Hampshire/NELAP (1012), Rhode Island (269), Vermont (VT1012), New York (12072), West Virginia (9910C) and Alabama (41620). Please refer to our website at www.easternanalytical.com for a copy of our certificates and accredited parameters.

References:

- EPA 600/4-79-020, 1983
- Standard Methods for Examination of Water and Wastewater, 20th, 21st, 22nd & 23rd edition or noted revision year.
- Test Methods for Evaluating Solid Waste SW 846 3rd Edition including updates IVA and IVB
- Hach Water Analysis Handbook, 4th edition, 1992

If you have any questions regarding the results contained within, please feel free to contact customer service. Unless otherwise requested, we will dispose of the sample(s) 6 weeks from the sample receipt date.

We appreciate this opportunity to be of service and look forward to your continued patronage.

Sincerely,



Lorraine Olashaw, Lab Director

9.30.21

Date



SAMPLE CONDITIONS PAGE

EAI ID#: 232083

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Dalton | Surface Water | 1003.20**

Temperature upon receipt (°C): 0.7

Received on ice or cold packs (Yes/No): Y

Acceptable temperature range (°C): 0-6

Lab ID	Sample ID	Date Received	Date/Time Sampled	Sample Matrix	% Dry Weight	Exceptions/Comments (other than thermal preservation)
232083.01	SG-3_20210914	9/15/21	9/14/21 16:15	aqueous		Adheres to Sample Acceptance Policy
232083.02	SG-4_20210914	9/15/21	9/14/21 13:35	aqueous		Adheres to Sample Acceptance Policy
232083.03	SG-5_20210914	9/15/21	9/14/21 14:15	aqueous		Adheres to Sample Acceptance Policy
232083.04	SG-6_20210914	9/15/21	9/14/21 14:45	aqueous		Adheres to Sample Acceptance Policy
232083.05	AB-1_20210914	9/15/21	9/14/21 15:05	aqueous		Adheres to Sample Acceptance Policy
232083.06	SWDUP-1_20210914	9/15/21	9/14/21 16:15	aqueous		Adheres to Sample Acceptance Policy
232083.07	TB-SW-01_20210914	9/15/21	9/14/21 17:15	aqueous		Adheres to Sample Acceptance Policy
232083.08	TB-LL-SW-01_20210914	9/15/21	9/14/21 17:15	aqueous		Adheres to Sample Acceptance Policy

All results contained in this report relate only to the above listed samples.

Unless otherwise noted:

- Hold times, preservation, container types, and sample conditions adhered to EPA Protocol.
- Solid samples are reported on a dry weight basis, unless otherwise noted. pH/Corrosivity, Flashpoint, Ignitability, Paint Filter, Conductivity and Specific Gravity are always reported on an "as received" basis.
- Analysis of pH, Total Residual Chlorine, Dissolved Oxygen and Sulfite were performed at the laboratory outside of the recommended 15 minute hold time.
- Samples collected by Eastern Analytical, Inc. (EAI) were collected in accordance with approved EPA procedures.



LABORATORY REPORT

EAI ID#: 232083

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Dalton | Surface Water | 1003.20**

Sample ID:	SG-3_20210914	SG-4_20210914	SG-5_20210914	SG-6_20210914
Lab Sample ID:	232083.01	232083.02	232083.03	232083.04
Matrix:	aqueous	aqueous	aqueous	aqueous
Date Sampled:	9/14/21	9/14/21	9/14/21	9/14/21
Date Received:	9/15/21	9/15/21	9/15/21	9/15/21
Units:	ug/L	ug/L	ug/L	ug/L
Date of Analysis:	9/17/21	9/17/21	9/17/21	9/17/21
Analyst:	AM	AM	AM	AM
Method:	8260C	8260C	8260C	8260C
Dilution Factor:	1	1	1	1
Dichlorodifluoromethane	< 2	< 2	< 2	< 2
Chloromethane	< 2	< 2	< 2	< 2
Vinyl chloride	< 1	< 1	< 1	< 1
Bromomethane	< 2	< 2	< 2	< 2
Chloroethane	< 2	< 2	< 2	< 2
Trichlorofluoromethane	< 2	< 2	< 2	< 2
Diethyl Ether	< 2	< 2	< 2	< 2
Acetone	< 10	< 10	< 10	< 10
1,1-Dichloroethene	< 0.5	< 0.5	< 0.5	< 0.5
tert-Butyl Alcohol (TBA)	< 30	< 30	< 30	< 30
Methylene chloride	< 1	< 1	< 1	< 1
Carbon disulfide	< 2	< 2	< 2	< 2
Methyl-t-butyl ether(MTBE)	< 1	< 1	< 1	< 1
Ethyl-t-butyl ether(ETBE)	< 2	< 2	< 2	< 2
Isopropyl ether(DIPE)	< 2	< 2	< 2	< 2
tert-amyl methyl ether(TAME)	< 2	< 2	< 2	< 2
trans-1,2-Dichloroethene	< 1	< 1	< 1	< 1
1,1-Dichloroethane	< 1	< 1	< 1	< 1
2,2-Dichloropropane	< 1	< 1	< 1	< 1
cis-1,2-Dichloroethene	< 1	< 1	< 1	< 1
2-Butanone(MEK)	< 10	< 10	< 10	< 10
Bromochloromethane	< 1	< 1	< 1	< 1
Tetrahydrofuran(THF)	< 10	< 10	< 10	< 10
Chloroform	< 1	< 1	< 1	< 1
1,1,1-Trichloroethane	< 1	< 1	< 1	< 1
Carbon tetrachloride	< 1	< 1	< 1	< 1
1,1-Dichloropropene	< 1	< 1	< 1	< 1
Benzene	< 1	< 1	< 1	< 1
1,2-Dichloroethane	< 1	< 1	< 1	< 1
Trichloroethene	< 1	< 1	< 1	< 1
1,2-Dichloropropane	< 1	< 1	< 1	< 1
Dibromomethane	< 1	< 1	< 1	< 1
Bromodichloromethane	< 0.5	< 0.5	< 0.5	< 0.5
1,4-Dioxane	< 50	< 50	< 50	< 50
4-Methyl-2-pentanone(MIBK)	< 10	< 10	< 10	< 10
cis-1,3-Dichloropropene	< 0.5	< 0.5	< 0.5	< 0.5
Toluene	< 1	< 1	< 1	< 1
trans-1,3-Dichloropropene	< 0.5	< 0.5	< 0.5	< 0.5
1,1,2-Trichloroethane	< 1	< 1	< 1	< 1
2-Hexanone	< 10	< 10	< 10	< 10
Tetrachloroethene	< 1	< 1	< 1	< 1
1,3-Dichloropropane	< 1	< 1	< 1	< 1
Dibromochloromethane	< 1	< 1	< 1	< 1
1,2-Dibromoethane(EDB)	< 0.5	< 0.5	< 0.5	< 0.5
Chlorobenzene	< 1	< 1	< 1	< 1
1,1,1,2-Tetrachloroethane	< 1	< 1	< 1	< 1



LABORATORY REPORT

EAI ID#: 232083

Client: Sanborn, Head & Associates, Inc. (NH)

Client Designation: Dalton | Surface Water | 1003.20

Sample ID:	SG-3_20210914	SG-4_20210914	SG-5_20210914	SG-6_20210914
Lab Sample ID:	232083.01	232083.02	232083.03	232083.04
Matrix:	aqueous	aqueous	aqueous	aqueous
Date Sampled:	9/14/21	9/14/21	9/14/21	9/14/21
Date Received:	9/15/21	9/15/21	9/15/21	9/15/21
Units:	ug/L	ug/L	ug/L	ug/L
Date of Analysis:	9/17/21	9/17/21	9/17/21	9/17/21
Analyst:	AM	AM	AM	AM
Method:	8260C	8260C	8260C	8260C
Dilution Factor:	1	1	1	1
Ethylbenzene	< 1	< 1	< 1	< 1
mp-Xylene	< 1	< 1	< 1	< 1
o-Xylene	< 1	< 1	< 1	< 1
Styrene	< 1	< 1	< 1	< 1
Bromoform	< 2	< 2	< 2	< 2
IsoPropylbenzene	< 1	< 1	< 1	< 1
Bromobenzene	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	< 1	< 1	< 1	< 1
1,2,3-Trichloropropane	< 0.5	< 0.5	< 0.5	< 0.5
n-Propylbenzene	< 1	< 1	< 1	< 1
2-Chlorotoluene	< 1	< 1	< 1	< 1
4-Chlorotoluene	< 1	< 1	< 1	< 1
1,3,5-Trimethylbenzene	< 1	< 1	< 1	< 1
tert-Butylbenzene	< 1	< 1	< 1	< 1
1,2,4-Trimethylbenzene	< 1	< 1	< 1	< 1
sec-Butylbenzene	< 1	< 1	< 1	< 1
1,3-Dichlorobenzene	< 1	< 1	< 1	< 1
p-Isopropyltoluene	< 1	< 1	< 1	< 1
1,4-Dichlorobenzene	< 1	< 1	< 1	< 1
1,2-Dichlorobenzene	< 1	< 1	< 1	< 1
n-Butylbenzene	< 1	< 1	< 1	< 1
1,2-Dibromo-3-chloropropane	< 2	< 2	< 2	< 2
1,3,5-Trichlorobenzene	< 1	< 1	< 1	< 1
1,2,4-Trichlorobenzene	< 1	< 1	< 1	< 1
Hexachlorobutadiene	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	< 2	< 2	< 2	< 2
1,2,3-Trichlorobenzene	< 0.5	< 0.5	< 0.5	< 0.5
4-Bromofluorobenzene (surr)	104 %R	104 %R	104 %R	105 %R
1,2-Dichlorobenzene-d4 (surr)	103 %R	105 %R	105 %R	105 %R
Toluene-d8 (surr)	96 %R	96 %R	96 %R	96 %R
1,2-Dichloroethane-d4 (surr)	103 %R	103 %R	103 %R	103 %R



LABORATORY REPORT

EAI ID#: 232083

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Dalton | Surface Water | 1003.20**

Sample ID:	AB-1_20210914	SWDUP-1_20210914	TB-SW-01_20210914
Lab Sample ID:	232083.05	232083.06	232083.07
Matrix:	aqueous	aqueous	aqueous
Date Sampled:	9/14/21	9/14/21	9/14/21
Date Received:	9/15/21	9/15/21	9/15/21
Units:	ug/L	ug/L	ug/L
Date of Analysis:	9/17/21	9/17/21	9/17/21
Analyst:	AM	AM	AM
Method:	8260C	8260C	8260C
Dilution Factor:	1	1	1
Dichlorodifluoromethane	< 2	< 2	< 2
Chloromethane	< 2	< 2	< 2
Vinyl chloride	< 1	< 1	< 1
Bromomethane	< 2	< 2	< 2
Chloroethane	< 2	< 2	< 2
Trichlorofluoromethane	< 2	< 2	< 2
Diethyl Ether	< 2	< 2	< 2
Acetone	< 10	< 10	< 10
1,1-Dichloroethene	< 0.5	< 0.5	< 0.5
tert-Butyl Alcohol (TBA)	< 30	< 30	< 30
Methylene chloride	< 1	< 1	< 1
Carbon disulfide	< 2	< 2	< 2
Methyl-t-butyl ether(MTBE)	< 1	< 1	< 1
Ethyl-t-butyl ether(ETBE)	< 2	< 2	< 2
Isopropyl ether(DIPE)	< 2	< 2	< 2
tert-amyl methyl ether(TAME)	< 2	< 2	< 2
trans-1,2-Dichloroethene	< 1	< 1	< 1
1,1-Dichloroethane	< 1	< 1	< 1
2,2-Dichloropropane	< 1	< 1	< 1
cis-1,2-Dichloroethene	< 1	< 1	< 1
2-Butanone(MEK)	< 10	< 10	< 10
Bromochloromethane	< 1	< 1	< 1
Tetrahydrofuran(THF)	< 10	< 10	< 10
Chloroform	< 1	< 1	< 1
1,1,1-Trichloroethane	< 1	< 1	< 1
Carbon tetrachloride	< 1	< 1	< 1
1,1-Dichloropropene	< 1	< 1	< 1
Benzene	< 1	< 1	< 1
1,2-Dichloroethane	< 1	< 1	< 1
Trichloroethene	< 1	< 1	< 1
1,2-Dichloropropane	< 1	< 1	< 1
Dibromomethane	< 1	< 1	< 1
Bromodichloromethane	< 0.5	< 0.5	< 0.5
1,4-Dioxane	< 50	< 50	< 50
4-Methyl-2-pentanone(MIBK)	< 10	< 10	< 10
cis-1,3-Dichloropropene	< 0.5	< 0.5	< 0.5
Toluene	< 1	< 1	< 1
trans-1,3-Dichloropropene	< 0.5	< 0.5	< 0.5
1,1,2-Trichloroethane	< 1	< 1	< 1
2-Hexanone	< 10	< 10	< 10
Tetrachloroethene	< 1	< 1	< 1
1,3-Dichloropropane	< 1	< 1	< 1
Dibromochloromethane	< 1	< 1	< 1
1,2-Dibromoethane(EDB)	< 0.5	< 0.5	< 0.5
Chlorobenzene	< 1	< 1	< 1
1,1,1,2-Tetrachloroethane	< 1	< 1	< 1



LABORATORY REPORT

EAI ID#: 232083

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Dalton | Surface Water | 1003.20**

Sample ID:	AB-1_20210914	SWDUP-1_20210914	TB-SW-01_20210914
Lab Sample ID:	232083.05	232083.06	232083.07
Matrix:	aqueous	aqueous	aqueous
Date Sampled:	9/14/21	9/14/21	9/14/21
Date Received:	9/15/21	9/15/21	9/15/21
Units:	ug/L	ug/L	ug/L
Date of Analysis:	9/17/21	9/17/21	9/17/21
Analyst:	AM	AM	AM
Method:	8260C	8260C	8260C
Dilution Factor:	1	1	1
Ethylbenzene	< 1	< 1	< 1
mp-Xylene	< 1	< 1	< 1
o-Xylene	< 1	< 1	< 1
Styrene	< 1	< 1	< 1
Bromoform	< 2	< 2	< 2
IsoPropylbenzene	< 1	< 1	< 1
Bromobenzene	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	< 1	< 1	< 1
1,2,3-Trichloropropane	< 0.5	< 0.5	< 0.5
n-Propylbenzene	< 1	< 1	< 1
2-Chlorotoluene	< 1	< 1	< 1
4-Chlorotoluene	< 1	< 1	< 1
1,3,5-Trimethylbenzene	< 1	< 1	< 1
tert-Butylbenzene	< 1	< 1	< 1
1,2,4-Trimethylbenzene	< 1	< 1	< 1
sec-Butylbenzene	< 1	< 1	< 1
1,3-Dichlorobenzene	< 1	< 1	< 1
p-Isopropyltoluene	< 1	< 1	< 1
1,4-Dichlorobenzene	< 1	< 1	< 1
1,2-Dichlorobenzene	< 1	< 1	< 1
n-Butylbenzene	< 1	< 1	< 1
1,2-Dibromo-3-chloropropane	< 2	< 2	< 2
1,3,5-Trichlorobenzene	< 1	< 1	< 1
1,2,4-Trichlorobenzene	< 1	< 1	< 1
Hexachlorobutadiene	< 0.5	< 0.5	< 0.5
Naphthalene	< 2	< 2	< 2
1,2,3-Trichlorobenzene	< 0.5	< 0.5	< 0.5
4-Bromofluorobenzene (surr)	105 %R	105 %R	102 %R
1,2-Dichlorobenzene-d4 (surr)	103 %R	104 %R	104 %R
Toluene-d8 (surr)	96 %R	95 %R	96 %R
1,2-Dichloroethane-d4 (surr)	104 %R	106 %R	102 %R



QC REPORT

EAI ID#: **232083**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Batch ID: 637674-95122/A091721V82601

Client Designation: **Dalton | Surface Water | 1003.20**

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
Dichlorodifluoromethane	< 2	26 (130 %R)	26 (130 %R) (0 RPD)	9/17/2021	ug/L	40 - 160	20	8260C
Chloromethane	< 2	30 (150 %R)	30 (148 %R) (1 RPD)	9/17/2021	ug/L	40 - 160	20	8260C
Vinyl chloride	< 1	* 29 (146 %R)	* 28 (142 %R) (3 RPD)	9/17/2021	ug/L	70 - 130	20	8260C
Bromomethane	< 2	21 (103 %R)	22 (108 %R) (5 RPD)	9/17/2021	ug/L	40 - 160	20	8260C
Chloroethane	< 2	* 29 (144 %R)	* 28 (142 %R) (1 RPD)	9/17/2021	ug/L	70 - 130	20	8260C
Trichlorofluoromethane	< 2	25 (127 %R)	25 (126 %R) (1 RPD)	9/17/2021	ug/L	70 - 130	20	8260C
Diethyl Ether	< 2	23 (113 %R)	23 (116 %R) (2 RPD)	9/17/2021	ug/L	70 - 130	20	8260C
Acetone	< 10	18 (91 %R)	19 (96 %R) (5 RPD)	9/17/2021	ug/L	40 - 160	20	8260C
1,1-Dichloroethene	< 0.5	23 (116 %R)	23 (117 %R) (1 RPD)	9/17/2021	ug/L	70 - 130	20	8260C
tert-Butyl Alcohol (TBA)	< 30	99 (99 %R)	110 (106 %R) (7 RPD)	9/17/2021	ug/L	70 - 130	20	8260C
Methylene chloride	< 1	22 (111 %R)	22 (110 %R) (1 RPD)	9/17/2021	ug/L	70 - 130	20	8260C
Carbon disulfide	< 2	21 (106 %R)	21 (103 %R) (2 RPD)	9/17/2021	ug/L	70 - 130	20	8260C
Methyl-t-butyl ether(MTBE)	< 1	21 (106 %R)	22 (109 %R) (2 RPD)	9/17/2021	ug/L	70 - 130	20	8260C
Ethyl-t-butyl ether(ETBE)	< 2	22 (112 %R)	23 (114 %R) (1 RPD)	9/17/2021	ug/L	70 - 130	20	8260C
Isopropyl ether(DIPE)	< 2	23 (116 %R)	23 (117 %R) (1 RPD)	9/17/2021	ug/L	70 - 130	20	8260C
tert-amyl methyl ether(TAME)	< 2	22 (110 %R)	22 (112 %R) (2 RPD)	9/17/2021	ug/L	70 - 130	20	8260C
trans-1,2-Dichloroethene	< 1	23 (117 %R)	23 (116 %R) (1 RPD)	9/17/2021	ug/L	70 - 130	20	8260C
1,1-Dichloroethane	< 1	24 (118 %R)	24 (118 %R) (0 RPD)	9/17/2021	ug/L	70 - 130	20	8260C
2,2-Dichloropropane	< 1	22 (112 %R)	22 (112 %R) (0 RPD)	9/17/2021	ug/L	70 - 130	20	8260C
cis-1,2-Dichloroethene	< 1	23 (117 %R)	23 (115 %R) (2 RPD)	9/17/2021	ug/L	70 - 130	20	8260C
2-Butanone(MEK)	< 10	18 (89 %R)	19 (96 %R) (7 RPD)	9/17/2021	ug/L	40 - 160	20	8260C
Bromochloromethane	< 1	23 (114 %R)	23 (114 %R) (0 RPD)	9/17/2021	ug/L	70 - 130	20	8260C
Tetrahydrofuran(THF)	< 10	19 (95 %R)	20 (101 %R) (5 RPD)	9/17/2021	ug/L	70 - 130	20	8260C
Chloroform	< 1	23 (113 %R)	23 (114 %R) (1 RPD)	9/17/2021	ug/L	70 - 130	20	8260C
1,1,1-Trichloroethane	< 1	22 (111 %R)	22 (112 %R) (1 RPD)	9/17/2021	ug/L	70 - 130	20	8260C
Carbon tetrachloride	< 1	22 (108 %R)	22 (109 %R) (1 RPD)	9/17/2021	ug/L	70 - 130	20	8260C
1,1-Dichloropropene	< 1	22 (110 %R)	22 (111 %R) (1 RPD)	9/17/2021	ug/L	70 - 130	20	8260C
Benzene	< 1	24 (118 %R)	24 (119 %R) (0 RPD)	9/17/2021	ug/L	70 - 130	20	8260C
1,2-Dichloroethane	< 1	22 (112 %R)	23 (114 %R) (2 RPD)	9/17/2021	ug/L	70 - 130	20	8260C
Trichloroethene	< 1	23 (113 %R)	23 (113 %R) (0 RPD)	9/17/2021	ug/L	70 - 130	20	8260C
1,2-Dichloropropane	< 1	23 (117 %R)	23 (117 %R) (0 RPD)	9/17/2021	ug/L	70 - 130	20	8260C
Dibromomethane	< 1	22 (110 %R)	22 (111 %R) (1 RPD)	9/17/2021	ug/L	70 - 130	20	8260C
Bromodichloromethane	< 0.5	23 (114 %R)	23 (114 %R) (0 RPD)	9/17/2021	ug/L	70 - 130	20	8260C
1,4-Dioxane	< 50	< 50 (92 %R)	< 50 (97 %R) (5 RPD)	9/17/2021	ug/L	40 - 160	20	8260C
4-Methyl-2-pentanone(MIBK)	< 10	19 (95 %R)	20 (101 %R) (6 RPD)	9/17/2021	ug/L	40 - 160	20	8260C
cis-1,3-Dichloropropene	< 0.5	22 (111 %R)	22 (111 %R) (0 RPD)	9/17/2021	ug/L	70 - 130	20	8260C
Toluene	< 1	21 (104 %R)	21 (105 %R) (1 RPD)	9/17/2021	ug/L	70 - 130	20	8260C
trans-1,3-Dichloropropene	< 0.5	20 (99 %R)	20 (100 %R) (1 RPD)	9/17/2021	ug/L	70 - 130	20	8260C
1,1,2-Trichloroethane	< 1	20 (99 %R)	20 (101 %R) (2 RPD)	9/17/2021	ug/L	70 - 130	20	8260C
2-Hexanone	< 10	17 (85 %R)	18 (91 %R) (7 RPD)	9/17/2021	ug/L	40 - 160	20	8260C
Tetrachloroethene	< 1	19 (97 %R)	19 (97 %R) (0 RPD)	9/17/2021	ug/L	70 - 130	20	8260C
1,3-Dichloropropane	< 1	20 (102 %R)	21 (104 %R) (3 RPD)	9/17/2021	ug/L	70 - 130	20	8260C
Dibromochloromethane	< 1	16 (82 %R)	17 (83 %R) (1 RPD)	9/17/2021	ug/L	70 - 130	20	8260C
1,2-Dibromoethane(EDB)	< 0.5	19 (94 %R)	19 (97 %R) (3 RPD)	9/17/2021	ug/L	70 - 130	20	8260C
Chlorobenzene	< 1	20 (102 %R)	21 (103 %R) (1 RPD)	9/17/2021	ug/L	70 - 130	20	8260C
1,1,1,2-Tetrachloroethane	< 1	19 (95 %R)	19 (96 %R) (1 RPD)	9/17/2021	ug/L	70 - 130	20	8260C



QC REPORT

EAI ID#: **232083**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Batch ID: 637674-95122/A091721V82601

Client Designation: **Dalton | Surface Water | 1003.20**

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
Ethylbenzene	< 1	21 (105 %R)	21 (106 %R) (1 RPD)	9/17/2021	ug/L	70 - 130	20	8260C
mp-Xylene	< 1	42 (104 %R)	42 (105 %R) (1 RPD)	9/17/2021	ug/L	70 - 130	20	8260C
o-Xylene	< 1	21 (107 %R)	21 (107 %R) (1 RPD)	9/17/2021	ug/L	70 - 130	20	8260C
Styrene	< 1	23 (116 %R)	23 (117 %R) (1 RPD)	9/17/2021	ug/L	70 - 130	20	8260C
Bromoform	< 2	15 (77 %R)	16 (78 %R) (2 RPD)	9/17/2021	ug/L	70 - 130	20	8260C
IsoPropylbenzene	< 1	21 (104 %R)	21 (105 %R) (1 RPD)	9/17/2021	ug/L	70 - 130	20	8260C
Bromobenzene	< 1	19 (97 %R)	20 (100 %R) (3 RPD)	9/17/2021	ug/L	70 - 130	20	8260C
1,1,2,2-Tetrachloroethane	< 1	18 (88 %R)	19 (94 %R) (7 RPD)	9/17/2021	ug/L	70 - 130	20	8260C
1,2,3-Trichloropropane	< 0.5	17 (87 %R)	19 (93 %R) (7 RPD)	9/17/2021	ug/L	70 - 130	20	8260C
n-Propylbenzene	< 1	20 (102 %R)	21 (104 %R) (2 RPD)	9/17/2021	ug/L	70 - 130	20	8260C
2-Chlorotoluene	< 1	20 (102 %R)	21 (105 %R) (3 RPD)	9/17/2021	ug/L	70 - 130	20	8260C
4-Chlorotoluene	< 1	20 (102 %R)	21 (104 %R) (2 RPD)	9/17/2021	ug/L	70 - 130	20	8260C
1,3,5-Trimethylbenzene	< 1	20 (100 %R)	21 (103 %R) (3 RPD)	9/17/2021	ug/L	70 - 130	20	8260C
tert-Butylbenzene	< 1	20 (98 %R)	20 (100 %R) (2 RPD)	9/17/2021	ug/L	70 - 130	20	8260C
1,2,4-Trimethylbenzene	< 1	21 (103 %R)	21 (105 %R) (2 RPD)	9/17/2021	ug/L	70 - 130	20	8260C
sec-Butylbenzene	< 1	21 (104 %R)	21 (105 %R) (1 RPD)	9/17/2021	ug/L	70 - 130	20	8260C
1,3-Dichlorobenzene	< 1	20 (99 %R)	20 (101 %R) (1 RPD)	9/17/2021	ug/L	70 - 130	20	8260C
p-Isopropyltoluene	< 1	20 (101 %R)	20 (101 %R) (1 RPD)	9/17/2021	ug/L	70 - 130	20	8260C
1,4-Dichlorobenzene	< 1	20 (99 %R)	20 (100 %R) (1 RPD)	9/17/2021	ug/L	70 - 130	20	8260C
1,2-Dichlorobenzene	< 1	20 (98 %R)	20 (100 %R) (2 RPD)	9/17/2021	ug/L	70 - 130	20	8260C
n-Butylbenzene	< 1	20 (99 %R)	20 (100 %R) (1 RPD)	9/17/2021	ug/L	70 - 130	20	8260C
1,2-Dibromo-3-chloropropane	< 2	15 (73 %R)	16 (80 %R) (9 RPD)	9/17/2021	ug/L	70 - 130	20	8260C
1,3,5-Trichlorobenzene	< 1	18 (88 %R)	18 (91 %R) (3 RPD)	9/17/2021	ug/L	70 - 130	20	8260C
1,2,4-Trichlorobenzene	< 1	16 (79 %R)	17 (86 %R) (8 RPD)	9/17/2021	ug/L	70 - 130	20	8260C
Hexachlorobutadiene	< 0.5	15 (77 %R)	16 (79 %R) (2 RPD)	9/17/2021	ug/L	70 - 130	20	8260C
Naphthalene	< 2	15 (77 %R)	18 (90 %R) (15 RPD)	9/17/2021	ug/L	70 - 130	20	8260C
1,2,3-Trichlorobenzene	< 0.5	15 (74 %R)	17 (85 %R) (15 RPD)	9/17/2021	ug/L	70 - 130	20	8260C
4-Bromofluorobenzene (surr)	103 %R	106 %R	106 %R	9/17/2021	% Rec	70 - 130	20	8260C
1,2-Dichlorobenzene-d4 (surr)	104 %R	101 %R	103 %R	9/17/2021	% Rec	70 - 130	20	8260C
Toluene-d8 (surr)	94 %R	95 %R	96 %R	9/17/2021	% Rec	70 - 130	20	8260C

*! Flagged analyte recoveries deviated from the QA/QC limits. Data that impacts sample results are noted on the sample report.



LABORATORY REPORT

EAI ID#: **232083**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Dalton | Surface Water | 1003.20**

Sample ID:	SG-3_20210914	SG-4_20210914	SG-5_20210914	SG-6_20210914
Lab Sample ID:	232083.01	232083.02	232083.03	232083.04
Matrix:	aqueous	aqueous	aqueous	aqueous
Date Sampled:	9/14/21	9/14/21	9/14/21	9/14/21
Date Received:	9/15/21	9/15/21	9/15/21	9/15/21
Units:	ug/L	ug/L	ug/L	ug/L
Date of Analysis:	9/17/21	9/17/21	9/17/21	9/17/21
Analyst:	AM	AM	AM	AM
Method:	8260B SIM	8260B SIM	8260B SIM	8260B SIM
Dilution Factor:	1	1	1	1
1,4-Dioxane	< 0.25	< 0.25	< 0.25	< 0.25
4-Bromofluorobenzene (surr)	101 %R	101 %R	100 %R	100 %R
Toluene-d8 (surr)	101 %R	101 %R	101 %R	101 %R



LABORATORY REPORT

EAI ID#: 232083

Client: Sanborn, Head & Associates, Inc. (NH)

Client Designation: Dalton | Surface Water | 1003.20

Sample ID: AB-1_20210914 SWDUP-1_20210914 TB-LL-SW-01_20210914

Lab Sample ID:	232083.05	232083.06	232083.08
Matrix:	aqueous	aqueous	aqueous
Date Sampled:	9/14/21	9/14/21	9/14/21
Date Received:	9/15/21	9/15/21	9/15/21
Units:	ug/L	ug/L	ug/L
Date of Analysis:	9/17/21	9/17/21	9/17/21
Analyst:	AM	AM	AM
Method:	8260B SIM	8260B SIM	8260B SIM
Dilution Factor:	1	1	1
1,4-Dioxane	< 0.25	< 0.25	< 0.25
4-Bromofluorobenzene (surr)	100 %R	100 %R	100 %R
Toluene-d8 (surr)	102 %R	101 %R	101 %R



QC REPORT

EAI ID#: **232083**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Batch ID: 637674-93681/A091721DIOX1

Client Designation: **Dalton | Surface Water | 1003.20**

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
1,4-Dioxane	< 0.2	4.4 (87 %R)	4.6 (92 %R) (5 RPD)	9/17/2021	ug/L	70 - 130	20	8260B
4-Bromofluorobenzene (surr)	101 %R	100 %R	102 %R	9/17/2021	% Rec	70 - 130	50	8260B
Toluene-d8 (surr)	101 %R	101 %R	101 %R	9/17/2021	% Rec	70 - 130	50	8260B

*! Flagged analyte recoveries deviated from the QA/QC limits. Data that impacts sample results are noted on the sample report.



LABORATORY REPORT

EAI ID#: **232083**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Dalton | Surface Water | 1003.20**

Sample ID:	SG-3_20210914	SG-4_20210914	SG-5_20210914	SG-6_20210914
Lab Sample ID:	232083.01	232083.02	232083.03	232083.04
Matrix:	aqueous	aqueous	aqueous	aqueous
Date Sampled:	9/14/21	9/14/21	9/14/21	9/14/21
Date Received:	9/15/21	9/15/21	9/15/21	9/15/21
Units:	ug/L	ug/L	ug/L	ug/L
Date of Extraction/Prep:	9/22/21	9/22/21	9/22/21	9/22/21
Date of Analysis:	9/22/21	9/22/21	9/22/21	9/22/21
Analyst:	AR	AR	AR	AR
Method:	8011/504	8011/504	8011/504	8011/504
Dilution Factor:	1	1	1	1
1,2-Dibromoethane(EDB)	< 0.02	< 0.02	< 0.02	< 0.02
Dibromochloropropane (DBCP)	< 0.02	< 0.02	< 0.02	< 0.02
1,1,1,2-Tetrachloroethane (surr)	92 %R	95 %R	80 %R	87 %R



LABORATORY REPORT

EAI ID#: **232083**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Dalton | Surface Water | 1003.20**

Sample ID: AB-1_20210914 SWDUP-1_20210914

Lab Sample ID:	232083.05	232083.06
Matrix:	aqueous	aqueous
Date Sampled:	9/14/21	9/14/21
Date Received:	9/15/21	9/15/21
Units:	ug/L	ug/L
Date of Extraction/Prep:	9/22/21	9/22/21
Date of Analysis:	9/22/21	9/22/21
Analyst:	AR	AR
Method:	8011/504	8011/504
Dilution Factor:	1	1
1,2-Dibromoethane(EDB)	< 0.02	< 0.02
Dibromochloropropane (DBCP)	< 0.02	< 0.02
1,1,1,2-Tetrachloroethane (surr)	98 %R	98 %R



QC REPORT

EAI ID#: **232083**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Batch ID: 637678-96625/A092221E5041

Client Designation: **Dalton | Surface Water | 1003.20**

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
1,2-Dibromoethane(EDB)	< 0.02	0.094 (94 %R)	0.10 (102 %R) (8 RPD)	9/22/2021	ug/L	70 - 130	20	8011/504
Dibromochloropropane (DBCP)	< 0.02	0.095 (95 %R)	0.10 (103 %R) (8 RPD)	9/22/2021	ug/L	70 - 130	20	8011/504
1,1,1,2-Tetrachloroethane (surr)	99 %R	97 %R	105 %R	9/22/2021	% Rec	65 - 135	20	8011/504

*! Flagged analyte recoveries deviated from the QA/QC limits. Data that impacts sample results are noted on the sample report.



LABORATORY REPORT

EAI ID#: 232083

Client: Sanborn, Head & Associates, Inc. (NH)

Client Designation: Dalton | Surface Water | 1003.20

Sample ID:	SG-3_20210914	SG-4_20210914	SG-5_20210914	SG-6_20210914
Lab Sample ID:	232083.01	232083.02	232083.03	232083.04
Matrix:	aqueous	aqueous	aqueous	aqueous
Date Sampled:	9/14/21	9/14/21	9/14/21	9/14/21
Date Received:	9/15/21	9/15/21	9/15/21	9/15/21
Units:	ug/L	ug/L	ug/L	ug/L
Date of Extraction/Prep:	9/17/21	9/17/21	9/17/21	9/17/21
Date of Analysis:	9/20/21	9/20/21	9/20/21	9/20/21
Analyst:	JMR	JMR	JMR	JMR
Method:	8270D	8270D	8270D	8270D
Dilution Factor:	1	1	1	1
alpha-Terpineol	< 5	< 5	< 5	< 5
Phenol	< 1	< 1	< 1	< 1
2-Chlorophenol	< 1	< 1	< 1	< 1
2,4-Dichlorophenol	< 1	< 1	< 1	< 1
2,4,5-Trichlorophenol	< 1	< 1	< 1	< 1
2,4,6-Trichlorophenol	< 1	< 1	< 1	< 1
Pentachlorophenol	< 5	< 5	< 5	< 5
2-Nitrophenol	< 5	< 5	< 5	< 5
4-Nitrophenol	< 5	< 5	< 5	< 5
2,4-Dinitrophenol	< 10	< 10	< 10	< 10
2-Methylphenol	< 1	< 1	< 1	< 1
3/4-Methylphenol	< 1	< 1	< 1	< 1
2,4-Dimethylphenol	< 5	< 5	< 5	< 5
4-Chloro-3-methylphenol	< 1	< 1	< 1	< 1
4,6-Dinitro-2-methylphenol	< 5	< 5	< 5	< 5
Benzoic Acid	< 50	< 50	< 50	< 50
N-Nitrosodimethylamine	< 1	< 1	< 1	< 1
n-Nitroso-di-n-propylamine	< 0.5	< 0.5	< 0.5	< 0.5
n-Nitrosodiphenylamine	< 1	< 1	< 1	< 1
bis(2-Chloroethyl)ether	< 1	< 1	< 1	< 1
bis(2-chloroisopropyl)ether	< 1	< 1	< 1	< 1
bis(2-Chloroethoxy)methane	< 1	< 1	< 1	< 1
1,3-Dichlorobenzene	< 1	< 1	< 1	< 1
Acetophenone	< 10	< 10	< 10	< 10
1,4-Dichlorobenzene	< 1	< 1	< 1	< 1
1,2-Dichlorobenzene	< 1	< 1	< 1	< 1
1,2,4-Trichlorobenzene	< 1	< 1	< 1	< 1
2-Chloronaphthalene	< 1	< 1	< 1	< 1
4-Chlorophenyl-phenylether	< 1	< 1	< 1	< 1
4-Bromophenyl-phenylether	< 1	< 1	< 1	< 1
Hexachloroethane	< 1	< 1	< 1	< 1
Hexachlorobutadiene	< 1	< 1	< 1	< 1
Hexachlorocyclopentadiene	< 5	< 5	< 5	< 5
Hexachlorobenzene	< 1	< 1	< 1	< 1
4-Chloroaniline	< 1	< 1	< 1	< 1
2,3-Dichloroaniline	< 1	< 1	< 1	< 1
2-Nitroaniline	< 5	< 5	< 5	< 5
3-Nitroaniline	< 5	< 5	< 5	< 5
4-Nitroaniline	< 5	< 5	< 5	< 5
Aniline	< 1	< 1	< 1	< 1
Benzyl alcohol	< 10	< 10	< 10	< 10
Nitrobenzene	< 1	< 1	< 1	< 1
Isophorone	< 1	< 1	< 1	< 1
2,4-Dinitrotoluene	< 2	< 2	< 2	< 2
2,6-Dinitrotoluene	< 2	< 2	< 2	< 2
Benzidine (estimated)	< 5	< 5	< 5	< 5
3,3'-Dichlorobenzidine	< 1	< 1	< 1	< 1



LABORATORY REPORT

EAI ID#: **232083**

Client: **Sanborn, Head & Associates, Inc. (NH)**
 Client Designation: **Dalton | Surface Water | 1003.20**

Sample ID:	SG-3_20210914	SG-4_20210914	SG-5_20210914	SG-6_20210914
Lab Sample ID:	232083.01	232083.02	232083.03	232083.04
Matrix:	aqueous	aqueous	aqueous	aqueous
Date Sampled:	9/14/21	9/14/21	9/14/21	9/14/21
Date Received:	9/15/21	9/15/21	9/15/21	9/15/21
Units:	ug/L	ug/L	ug/L	ug/L
Date of Extraction/Prep:	9/17/21	9/17/21	9/17/21	9/17/21
Date of Analysis:	9/20/21	9/20/21	9/20/21	9/20/21
Analyst:	JMR	JMR	JMR	JMR
Method:	8270D	8270D	8270D	8270D
Dilution Factor:	1	1	1	1
Pyridine	< 5	< 5	< 5	< 5
Azobenzene	< 1	< 1	< 1	< 1
Carbazole	< 1	< 1	< 1	< 1
Dimethylphthalate	< 1	< 1	< 1	< 1
Diethylphthalate	< 5	< 5	< 5	< 5
Di-n-butylphthalate	< 5	< 5	< 5	< 5
Butylbenzylphthalate	< 5	< 5	< 5	< 5
bis(2-Ethylhexyl)phthalate	< 5	< 5	< 5	< 5
Di-n-octylphthalate	< 5	< 5	< 5	< 5
Dibenzofuran	< 1	< 1	< 1	< 1
Naphthalene	< 0.1	< 0.1	< 0.1	< 0.1
2-Methylnaphthalene	< 0.1	< 0.1	< 0.1	< 0.1
1-Methylnaphthalene	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthene	< 0.1	< 0.1	< 0.1	< 0.1
Fluorene	< 0.1	< 0.1	< 0.1	< 0.1
Phenanthrene	< 0.1	< 0.1	< 0.1	< 0.1
Anthracene	< 0.1	< 0.1	< 0.1	< 0.1
Fluoranthene	< 0.1	< 0.1	< 0.1	< 0.1
Pyrene	< 0.1	< 0.1	< 0.1	< 0.1
Benzo[a]anthracene	< 0.1	< 0.1	< 0.1	< 0.1
Chrysene	< 0.1	< 0.1	< 0.1	< 0.1
Benzo[b]fluoranthene	< 0.1	< 0.1	< 0.1	< 0.1
Benzo[k]fluoranthene	< 0.1	< 0.1	< 0.1	< 0.1
Benzo[a]pyrene	< 0.1	< 0.1	< 0.1	< 0.1
Indeno[1,2,3-cd]pyrene	< 0.1	< 0.1	< 0.1	< 0.1
Dibenz[a,h]anthracene	< 0.1	< 0.1	< 0.1	< 0.1
Benzo[g,h,i]perylene	< 0.1	< 0.1	< 0.1	< 0.1
n-Decane	< 5	< 5	< 5	< 5
n-Octadecane	< 5	< 5	< 5	< 5
2-Fluorophenol (surr)	29 %R	40 %R	27 %R	41 %R
Phenol-d6 (surr)	20 %R	27 %R	18 %R	27 %R
2,4,6-Tribromophenol (surr)	76 %R	84 %R	72 %R	85 %R
Nitrobenzene-D5 (surr)	68 %R	79 %R	64 %R	80 %R
2-Fluorobiphenyl (surr)	71 %R	81 %R	64 %R	82 %R
p-Terphenyl-D14 (surr)	87 %R	85 %R	79 %R	85 %R



LABORATORY REPORT

EAI ID#: 232083

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Dalton | Surface Water | 1003.20**

Sample ID: AB-1_20210914 SWDUP-1_20210914

Lab Sample ID:	232083.05	232083.06
Matrix:	aqueous	aqueous
Date Sampled:	9/14/21	9/14/21
Date Received:	9/15/21	9/15/21
Units:	ug/L	ug/L
Date of Extraction/Prep:	9/17/21	9/17/21
Date of Analysis:	9/20/21	9/20/21
Analyst:	JMR	JMR
Method:	8270D	8270D
Dilution Factor:	1	1
alpha-Terpineol	< 5	< 5
Phenol	< 1	< 1
2-Chlorophenol	< 1	< 1
2,4-Dichlorophenol	< 1	< 1
2,4,5-Trichlorophenol	< 1	< 1
2,4,6-Trichlorophenol	< 1	< 1
Pentachlorophenol	< 5	< 5
2-Nitrophenol	< 5	< 5
4-Nitrophenol	< 5	< 5
2,4-Dinitrophenol	< 10	< 10
2-Methylphenol	< 1	< 1
3/4-Methylphenol	< 1	< 1
2,4-Dimethylphenol	< 5	< 5
4-Chloro-3-methylphenol	< 1	< 1
4,6-Dinitro-2-methylphenol	< 5	< 5
Benzoic Acid	< 50	< 50
N-Nitrosodimethylamine	< 1	< 1
n-Nitroso-di-n-propylamine	< 0.5	< 0.5
n-Nitrosodiphenylamine	< 1	< 1
bis(2-Chloroethyl)ether	< 1	< 1
bis(2-chloroisopropyl)ether	< 1	< 1
bis(2-Chloroethoxy)methane	< 1	< 1
1,3-Dichlorobenzene	< 1	< 1
Acetophenone	< 10	< 10
1,4-Dichlorobenzene	< 1	< 1
1,2-Dichlorobenzene	< 1	< 1
1,2,4-Trichlorobenzene	< 1	< 1
2-Chloronaphthalene	< 1	< 1
4-Chlorophenyl-phenylether	< 1	< 1
4-Bromophenyl-phenylether	< 1	< 1
Hexachloroethane	< 1	< 1
Hexachlorobutadiene	< 1	< 1
Hexachlorocyclopentadiene	< 5	< 5
Hexachlorobenzene	< 1	< 1
4-Chloroaniline	< 1	< 1
2,3-Dichloroaniline	< 1	< 1
2-Nitroaniline	< 5	< 5
3-Nitroaniline	< 5	< 5
4-Nitroaniline	< 5	< 5
Aniline	< 1	< 1
Benzyl alcohol	< 10	< 10
Nitrobenzene	< 1	< 1
Isophorone	< 1	< 1
2,4-Dinitrotoluene	< 2	< 2
2,6-Dinitrotoluene	< 2	< 2
Benzidine (estimated)	< 5	< 5
3,3'-Dichlorobenzidine	< 1	< 1



LABORATORY REPORT

EAI ID#: 232083

Client: Sanborn, Head & Associates, Inc. (NH)

Client Designation: Dalton | Surface Water | 1003.20

Sample ID: AB-1_20210914 SWDUP-1_20210914

Lab Sample ID:	232083.05	232083.06
Matrix:	aqueous	aqueous
Date Sampled:	9/14/21	9/14/21
Date Received:	9/15/21	9/15/21
Units:	ug/L	ug/L
Date of Extraction/Prep:	9/17/21	9/17/21
Date of Analysis:	9/20/21	9/20/21
Analyst:	JMR	JMR
Method:	8270D	8270D
Dilution Factor:	1	1
Pyridine	< 5	< 5
Azobenzene	< 1	< 1
Carbazole	< 1	< 1
Dimethylphthalate	< 1	< 1
Diethylphthalate	< 5	< 5
Di-n-butylphthalate	< 5	< 5
Butylbenzylphthalate	< 5	< 5
bis(2-Ethylhexyl)phthalate	< 5	< 5
Di-n-octylphthalate	< 5	< 5
Dibenzofuran	< 1	< 1
Naphthalene	< 0.1	< 0.1
2-Methylnaphthalene	< 0.1	< 0.1
1-Methylnaphthalene	< 0.1	< 0.1
Acenaphthylene	< 0.1	< 0.1
Acenaphthene	< 0.1	< 0.1
Fluorene	< 0.1	< 0.1
Phenanthrene	< 0.1	< 0.1
Anthracene	< 0.1	< 0.1
Fluoranthene	< 0.1	< 0.1
Pyrene	< 0.1	< 0.1
Benzo[a]anthracene	< 0.1	< 0.1
Chrysene	< 0.1	< 0.1
Benzo[b]fluoranthene	< 0.1	< 0.1
Benzo[k]fluoranthene	< 0.1	< 0.1
Benzo[a]pyrene	< 0.1	< 0.1
Indeno[1,2,3-cd]pyrene	< 0.1	< 0.1
Dibenz[a,h]anthracene	< 0.1	< 0.1
Benzo[g,h,i]perylene	< 0.1	< 0.1
n-Decane	< 5	< 5
n-Octadecane	< 5	< 5
2-Fluorophenol (surr)	42 %R	33 %R
Phenol-d6 (surr)	28 %R	21 %R
2,4,6-Tribromophenol (surr)	85 %R	83 %R
Nitrobenzene-D5 (surr)	81 %R	77 %R
2-Fluorobiphenyl (surr)	82 %R	80 %R
o-Terophenyl-D14 (surr)	88 %R	87 %R



QC REPORT

EAI ID#: 232083

Client: Sanborn, Head & Associates, Inc. (NH)

Batch ID: 637674-65858/A091721ABN1

Client Designation: Dalton | Surface Water | 1003.20

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
alpha-Terpineol	< 5	20 (80 %R)	20 (79 %R) (1 RPD)	9/20/2021	ug/L	40 - 140	20	8270D
Phenol	< 1	15 (30 %R)	15 (29 %R) (1 RPD)	9/20/2021	ug/L	15 - 130	20	8270D
2-Chlorophenol	< 1	38 (76 %R)	36 (73 %R) (4 RPD)	9/20/2021	ug/L	30 - 130	20	8270D
2,4-Dichlorophenol	< 1	43 (86 %R)	42 (84 %R) (2 RPD)	9/20/2021	ug/L	30 - 130	20	8270D
2,4,5-Trichlorophenol	< 1	42 (83 %R)	42 (84 %R) (1 RPD)	9/20/2021	ug/L	30 - 130	20	8270D
2,4,6-Trichlorophenol	< 1	41 (82 %R)	42 (83 %R) (2 RPD)	9/20/2021	ug/L	30 - 130	20	8270D
Pentachlorophenol	< 5	40 (80 %R)	42 (84 %R) (5 RPD)	9/20/2021	ug/L	30 - 130	20	8270D
2-Nitrophenol	< 5	41 (81 %R)	40 (80 %R) (2 RPD)	9/20/2021	ug/L	30 - 130	20	8270D
4-Nitrophenol	< 5	17 (33 %R)	18 (35 %R) (5 RPD)	9/20/2021	ug/L	15 - 130	20	8270D
2,4-Dinitrophenol	< 10	44 (88 %R)	46 (92 %R) (5 RPD)	9/20/2021	ug/L	15 - 130	20	8270D
2-Methylphenol	< 1	36 (71 %R)	35 (70 %R) (2 RPD)	9/20/2021	ug/L	30 - 130	20	8270D
3/4-Methylphenol	< 1	35 (71 %R)	35 (70 %R) (2 RPD)	9/20/2021	ug/L	30 - 130	20	8270D
2,4-Dimethylphenol	< 5	41 (82 %R)	40 (80 %R) (3 RPD)	9/20/2021	ug/L	30 - 130	20	8270D
4-Chloro-3-methylphenol	< 1	42 (85 %R)	43 (85 %R) (1 RPD)	9/20/2021	ug/L	30 - 130	20	8270D
4,6-Dinitro-2-methylphenol	< 5	43 (86 %R)	45 (89 %R) (4 RPD)	9/20/2021	ug/L	30 - 130	20	8270D
Benzoic Acid	< 50	< 50 (29 %R)	< 50 (37 %R) (24 RPD) !	9/20/2021	ug/L	15 - 130	20	8270D
N-Nitrosodimethylamine	< 1	12 (47 %R)	12 (47 %R) (0 RPD)	9/20/2021	ug/L	15 - 140	20	8270D
n-Nitroso-di-n-propylamine	< 0.5	20 (82 %R)	20 (79 %R) (4 RPD)	9/20/2021	ug/L	40 - 140	20	8270D
n-Nitrosodiphenylamine	< 1	20 (80 %R)	21 (82 %R) (3 RPD)	9/20/2021	ug/L	40 - 140	20	8270D
bis(2-Chloroethyl)ether	< 1	19 (74 %R)	18 (71 %R) (4 RPD)	9/20/2021	ug/L	40 - 140	20	8270D
bis(2-chloroisopropyl)ether	< 1	19 (75 %R)	18 (71 %R) (5 RPD)	9/20/2021	ug/L	40 - 140	20	8270D
bis(2-Chloroethoxy)methane	< 1	20 (79 %R)	19 (76 %R) (4 RPD)	9/20/2021	ug/L	40 - 140	20	8270D
1,3-Dichlorobenzene	< 1	15 (59 %R)	15 (58 %R) (2 RPD)	9/20/2021	ug/L	40 - 140	20	8270D
Acetophenone	< 10	20 (81 %R)	19 (77 %R) (4 RPD)	9/20/2021	ug/L	40 - 140	20	8270D
1,4-Dichlorobenzene	< 1	15 (60 %R)	15 (59 %R) (2 RPD)	9/20/2021	ug/L	40 - 140	20	8270D
1,2-Dichlorobenzene	< 1	16 (62 %R)	15 (61 %R) (3 RPD)	9/20/2021	ug/L	40 - 140	20	8270D
1,2,4-Trichlorobenzene	< 1	17 (66 %R)	16 (63 %R) (5 RPD)	9/20/2021	ug/L	40 - 140	20	8270D
2-Chloronaphthalene	< 1	19 (76 %R)	19 (74 %R) (2 RPD)	9/20/2021	ug/L	40 - 140	20	8270D
4-Chlorophenyl-phenylether	< 1	20 (79 %R)	20 (80 %R) (1 RPD)	9/20/2021	ug/L	40 - 140	20	8270D
4-Bromophenyl-phenylether	< 1	20 (79 %R)	20 (81 %R) (2 RPD)	9/20/2021	ug/L	40 - 140	20	8270D
Hexachloroethane	< 1	15 (60 %R)	15 (59 %R) (2 RPD)	9/20/2021	ug/L	40 - 140	20	8270D
Hexachlorobutadiene	< 1	16 (62 %R)	15 (58 %R) (6 RPD)	9/20/2021	ug/L	40 - 140	20	8270D
Hexachlorocyclopentadiene	< 5	14 (55 %R)	14 (54 %R) (2 RPD)	9/20/2021	ug/L	15 - 140	20	8270D
Hexachlorobenzene	< 1	19 (78 %R)	20 (80 %R) (3 RPD)	9/20/2021	ug/L	40 - 140	20	8270D
4-Chloroaniline	< 1	19 (77 %R)	19 (77 %R) (0 RPD)	9/20/2021	ug/L	15 - 140	20	8270D
2,3-Dichloroaniline	< 1	20 (78 %R)	19 (78 %R) (1 RPD)	9/20/2021	ug/L	40 - 140	20	8270D
2-Nitroaniline	< 5	20 (78 %R)	20 (81 %R) (3 RPD)	9/20/2021	ug/L	40 - 140	20	8270D
3-Nitroaniline	< 5	20 (80 %R)	21 (82 %R) (2 RPD)	9/20/2021	ug/L	40 - 140	20	8270D
4-Nitroaniline	< 5	21 (85 %R)	22 (86 %R) (1 RPD)	9/20/2021	ug/L	40 - 140	20	8270D
Aniline	< 1	17 (68 %R)	17 (68 %R) (1 RPD)	9/20/2021	ug/L	40 - 140	20	8270D
Benzyl alcohol	< 10	17 (67 %R)	17 (67 %R) (0 RPD)	9/20/2021	ug/L	40 - 140	20	8270D
Nitrobenzene	< 1	19 (78 %R)	18 (74 %R) (5 RPD)	9/20/2021	ug/L	40 - 140	20	8270D
Isophorone	< 1	20 (81 %R)	20 (79 %R) (1 RPD)	9/20/2021	ug/L	40 - 140	20	8270D
2,4-Dinitrotoluene	< 2	21 (85 %R)	22 (88 %R) (3 RPD)	9/20/2021	ug/L	40 - 140	20	8270D
2,6-Dinitrotoluene	< 2	21 (85 %R)	22 (86 %R) (2 RPD)	9/20/2021	ug/L	40 - 140	20	8270D
Benzidine (estimated)	< 5	16 (63 %R)	16 (63 %R) (0 RPD)	9/20/2021	ug/L	1 - 200	50	8270D



QC REPORT

EAI ID#: 232083

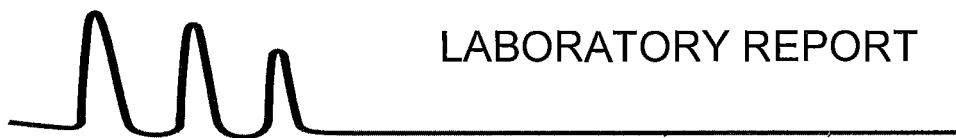
Client: **Sanborn, Head & Associates, Inc. (NH)**

Batch ID: 637674-65858/A091721ABN1

Client Designation: **Dalton | Surface Water | 1003.20**

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
3,3'-Dichlorobenzidine	< 1	20 (81 %R)	21 (83 %R) (2 RPD)	9/20/2021	ug/L	40 - 140	20	8270D
Pyridine	< 5	8.5 (34 %R)	8.5 (34 %R) (0 RPD)	9/20/2021	ug/L	15 - 140	20	8270D
Azobenzene	< 1	21 (84 %R)	21 (86 %R) (2 RPD)	9/20/2021	ug/L	40 - 140	20	8270D
Carbazole	< 1	21 (86 %R)	22 (87 %R) (1 RPD)	9/20/2021	ug/L	40 - 140	20	8270D
Dimethylphthalate	< 1	21 (85 %R)	21 (85 %R) (1 RPD)	9/20/2021	ug/L	40 - 140	20	8270D
Diethylphthalate	< 5	21 (82 %R)	21 (83 %R) (1 RPD)	9/20/2021	ug/L	40 - 140	20	8270D
Di-n-butylphthalate	< 5	23 (92 %R)	23 (93 %R) (1 RPD)	9/20/2021	ug/L	40 - 140	20	8270D
Butylbenzylphthalate	< 5	21 (83 %R)	21 (82 %R) (2 RPD)	9/20/2021	ug/L	40 - 140	20	8270D
bis(2-Ethylhexyl)phthalate	< 5	21 (83 %R)	21 (83 %R) (1 RPD)	9/20/2021	ug/L	40 - 140	20	8270D
Di-n-octylphthalate	< 5	22 (86 %R)	22 (87 %R) (1 RPD)	9/20/2021	ug/L	40 - 140	20	8270D
Dibenzofuran	< 1	20 (81 %R)	20 (81 %R) (0 RPD)	9/20/2021	ug/L	40 - 140	20	8270D
Naphthalene	< 0.1	19 (78 %R)	18 (74 %R) (6 RPD)	9/20/2021	ug/L	40 - 140	20	8270D
2-Methylnaphthalene	< 0.1	20 (78 %R)	19 (75 %R) (4 RPD)	9/20/2021	ug/L	40 - 140	20	8270D
1-Methylnaphthalene	< 0.1	20 (79 %R)	19 (76 %R) (4 RPD)	9/20/2021	ug/L	40 - 140	20	8270D
Acenaphthylene	< 0.1	21 (84 %R)	21 (83 %R) (1 RPD)	9/20/2021	ug/L	40 - 140	20	8270D
Acenaphthene	< 0.1	22 (90 %R)	22 (89 %R) (1 RPD)	9/20/2021	ug/L	40 - 140	20	8270D
Fluorene	< 0.1	21 (84 %R)	21 (84 %R) (1 RPD)	9/20/2021	ug/L	40 - 140	20	8270D
Phenanthrene	< 0.1	22 (87 %R)	22 (89 %R) (3 RPD)	9/20/2021	ug/L	40 - 140	20	8270D
Anthracene	< 0.1	22 (88 %R)	23 (91 %R) (2 RPD)	9/20/2021	ug/L	40 - 140	20	8270D
Fluoranthene	< 0.1	23 (92 %R)	23 (93 %R) (1 RPD)	9/20/2021	ug/L	40 - 140	20	8270D
Pyrene	< 0.1	23 (90 %R)	23 (92 %R) (2 RPD)	9/20/2021	ug/L	40 - 140	20	8270D
Benzo[a]anthracene	< 0.1	21 (86 %R)	22 (86 %R) (1 RPD)	9/20/2021	ug/L	40 - 140	20	8270D
Chrysene	< 0.1	22 (89 %R)	23 (90 %R) (1 RPD)	9/20/2021	ug/L	40 - 140	20	8270D
Benzo[b]fluoranthene	< 0.1	22 (89 %R)	23 (91 %R) (2 RPD)	9/20/2021	ug/L	40 - 140	20	8270D
Benzo[k]fluoranthene	< 0.1	23 (92 %R)	23 (92 %R) (0 RPD)	9/20/2021	ug/L	40 - 140	20	8270D
Benzo[a]pyrene	< 0.1	22 (88 %R)	22 (89 %R) (1 RPD)	9/20/2021	ug/L	40 - 140	20	8270D
Indeno[1,2,3-cd]pyrene	< 0.1	22 (88 %R)	22 (89 %R) (1 RPD)	9/20/2021	ug/L	40 - 140	20	8270D
Dibenz[a,h]anthracene	< 0.1	22 (89 %R)	23 (93 %R) (4 RPD)	9/20/2021	ug/L	40 - 140	20	8270D
Benzo[g,h,i]perylene	< 0.1	22 (89 %R)	22 (90 %R) (1 RPD)	9/20/2021	ug/L	40 - 140	20	8270D
n-Decane	< 5	13 (53 %R)	13 (51 %R) (5 RPD)	9/20/2021	ug/L	40 - 140	20	8270D
n-Octadecane	< 5	21 (84 %R)	22 (87 %R) (3 RPD)	9/20/2021	ug/L	40 - 140	20	8270D
2-Fluorophenol (surr)	41 %R	42 %R	40 %R	9/20/2021	% Rec	15 - 110		8270D
Phenol-d6 (surr)	28 %R	28 %R	28 %R	9/20/2021	% Rec	15 - 110		8270D
2,4,6-Tribromophenol (surr)	83 %R	84 %R	87 %R	9/20/2021	% Rec	15 - 110		8270D
Nitrobenzene-D5 (surr)	75 %R	78 %R	74 %R	9/20/2021	% Rec	30 - 130		8270D
2-Fluorobiphenyl (surr)	81 %R	78 %R	75 %R	9/20/2021	% Rec	30 - 130		8270D
p-Terphenyl-D14 (surr)	91 %R	86 %R	87 %R	9/20/2021	% Rec	30 - 130		8270D

*!/ Flagged analyte recoveries deviated from the QA/QC limits. Data that impacts sample results are noted on the sample report.



LABORATORY REPORT

EAI ID#: **232083**

Client: **Sanborn, Head & Associates, Inc. (NH)**
 Client Designation: **Dalton | Surface Water | 1003.20**

Sample ID: SG-3_20210914 SG-4_20210914 SG-5_20210914

Lab Sample ID:	232083.01	232083.02	232083.03	Analysis					
				RL	Units	Date	Time	Method	Analyst
Matrix:	aqueous	aqueous	aqueous						
Date Sampled:	9/14/21	9/14/21	9/14/21						
Date Received:	9/15/21	9/15/21	9/15/21						
Sulfate	12	3.2	< 1	1	mg/L	9/20/21	19:27	300.0	LLG
Chloride	< 1	< 1	< 1	1	mg/L	9/20/21	19:27	300.0	LLG
Nitrate-N	0.66	< 0.5	< 0.5	0.5	mg/L	9/16/21	11:29	353.2	KD
Alkalinity Total (CaCO3)	53	31	20	1	mg/L	9/16/21	9:47	2320B-11	HEH
TKN	< 0.5	< 0.5	0.56	0.5	mg/L	9/27/21	17:55	4500N _{org} C/NH3D	KEF
Sulfide	< 0.1	< 0.1	< 0.1	0.1	mg/L	9/15/21	15:50	8131HACH	HEH
COD	< 10	11	43	10	mg/L	9/16/21	16:00	H8000	JCS
Dissolved Organic Carbon	3.2	6.6	19	0.5	mg/L	9/20/21	13:03	5310C-00	LO

Sample ID: SG-6_20210914 AB-1_20210914 SWDUP
 -1_20210914

Lab Sample ID:	232083.04	232083.05	232083.06	Analysis					
				RL	Units	Date	Time	Method	Analyst
Matrix:	aqueous	aqueous	aqueous						
Date Sampled:	9/14/21	9/14/21	9/14/21						
Date Received:	9/15/21	9/15/21	9/15/21						
Sulfate	2.1	6.8	12	1	mg/L	9/20/21	20:12	300.0	LLG
Chloride	< 1	< 1	< 1	1	mg/L	9/20/21	20:12	300.0	LLG
Nitrate-N	< 0.5	< 0.5	0.67	0.5	mg/L	9/16/21	11:33	353.2	KD
Alkalinity Total (CaCO3)	27	32	53	1	mg/L	9/16/21	9:47	2320B-11	HEH
TKN	< 0.5	< 0.5	< 0.5	0.5	mg/L	9/27/21	18:03	4500N _{org} C/NH3D	KEF
Sulfide	< 0.1	< 0.1	< 0.1	0.1	mg/L	9/15/21	15:50	8131HACH	HEH
COD	18	< 10	< 10	10	mg/L	9/16/21	16:00	H8000	JCS
Dissolved Organic Carbon	8.9	3.2	3.6	0.5	mg/L	9/20/21	13:43	5310C-00	LO



QC REPORT

EAI ID#: 232083

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Dalton | Surface Water | 1003.20**

Parameter Name	Blank	LCS	LCSD	Units	Date of Analysis	Limits	RPD	Method
Sulfate	< 1	21 (105 %R)	20 (101 %R) (4 RPD)	mg/L	9/21/21	90 - 110	20	300.0
Chloride	< 1	21 (103 %R)	20 (100 %R) (3 RPD)	mg/L	9/20/21	90 - 110	20	300.0
Nitrate-N	< 0.5	5.0 (101 %R)	5.1 (102 %R) (1 RPD)	mg/L	9/16/21	90 - 110	20	353.2
Alkalinity Total (CaCO ₃)	< 1	11 (108 %R)	11 (112 %R) (4 RPD)	mg/L	9/16/21	85 - 115	20	2320B-11
TKN	< 0.5	10 (101 %R)	10 (104 %R) (3 RPD)	mg/L	9/27/21	90 - 111	20	4500N _{org} C/NH3D-11
Sulfide	< 0.1	0.40 (100 %R)	0.34 (85 %R) (16 RPD)	mg/L	9/15/21	80 - 120	20	8131HACH
COD	< 10	98 (98 %R)	99 (99 %R) (1 RPD)	mg/L	9/16/21	85 - 115	20	H8000
Dissolved Organic Carbon	< 0.5	9.6 (96 %R)	9.3 (93 %R) (3 RPD)	mg/L	9/20/21	90 - 110	20	5310C-00

*! Flagged analyte recoveries deviated from the QA/QC limits. Unless noted, flagged data does not impact the sample data.



LABORATORY REPORT

EAI ID#: 232083

Client: Sanborn, Head & Associates, Inc. (NH)

Client Designation: Dalton | Surface Water | 1003.20

Sample ID:	SG-3_20210914	SG -4_20210914	SG -5_20210914	SG -6_20210914					
Lab Sample ID:	232083.01	232083.02	232083.03	232083.04					
Matrix:	aqueous	aqueous	aqueous	aqueous					
Date Sampled:	9/14/21	9/14/21	9/14/21	9/14/21	Analytical		Date of		
Date Received:	9/15/21	9/15/21	9/15/21	9/15/21	Matrix	Units	Analysis	Method	Analyst
Antimony	< 0.001	< 0.001	< 0.001	< 0.001	AqTot	mg/L	9/16/21	200.8	DS
Arsenic	0.00054	< 0.0005	0.00064	< 0.0005	AqTot	mg/L	9/16/21	200.8	DS
Barium	0.038	0.012	0.072	0.036	AqTot	mg/L	9/16/21	200.8	DS
Beryllium	< 0.001	< 0.001	< 0.001	< 0.001	AqTot	mg/L	9/16/21	200.8	DS
Cadmium	< 0.001	< 0.001	< 0.001	< 0.001	AqTot	mg/L	9/16/21	200.8	DS
Chromium	0.0029	< 0.001	< 0.001	< 0.001	AqTot	mg/L	9/16/21	200.8	DS
Copper	0.0015	< 0.001	0.0015	0.0011	AqTot	mg/L	9/16/21	200.8	DS
Iron	2.0	0.46	1.1	0.50	AqTot	mg/L	9/16/21	200.8	DS
Lead	0.0017	< 0.001	< 0.001	< 0.001	AqTot	mg/L	9/16/21	200.8	DS
Magnesium	2.8	1.5	1.0	1.2	AqTot	mg/L	9/16/21	200.8	DS
Manganese	0.79	0.60	3.1	0.59	AqTot	mg/L	9/16/21	200.8	DS
Mercury	< 0.0001	< 0.0001	< 0.0001	< 0.0001	AqTot	mg/L	9/16/21	200.8	DS
Nickel	0.0018	< 0.001	0.0010	< 0.001	AqTot	mg/L	9/16/21	200.8	DS
Potassium	1.7	0.97	0.22	0.72	AqTot	mg/L	9/16/21	200.8	DS
Silver	< 0.001	< 0.001	< 0.001	< 0.001	AqTot	mg/L	9/16/21	200.8	DS
Thallium	< 0.001	< 0.001	< 0.001	< 0.001	AqTot	mg/L	9/16/21	200.8	DS
Antimony	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	9/16/21	200.8	DS
Arsenic	< 0.0005	< 0.0005	0.00055	0.00056	AqDis	mg/L	9/16/21	200.8	DS
Barium	0.018	0.010	0.072	0.032	AqDis	mg/L	9/16/21	200.8	DS
Beryllium	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	9/16/21	200.8	DS
Cadmium	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	9/16/21	200.8	DS
Chromium	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	9/16/21	200.8	DS
Copper	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	9/16/21	200.8	DS
Iron	< 0.05	0.23	0.83	0.32	AqDis	mg/L	9/16/21	200.8	DS
Lead	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	9/16/21	200.8	DS
Magnesium	2.2	1.4	0.90	1.2	AqDis	mg/L	9/16/21	200.8	DS
Manganese	0.0067	0.44	3.3	0.55	AqDis	mg/L	9/16/21	200.8	DS
Mercury	< 0.0001	< 0.0001	< 0.0001	< 0.0001	AqDis	mg/L	9/16/21	200.8	DS
Nickel	0.0012	< 0.001	0.0010	< 0.001	AqDis	mg/L	9/16/21	200.8	DS
Potassium	1.4	0.97	0.24	0.76	AqDis	mg/L	9/16/21	200.8	DS
Silver	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	9/16/21	200.8	DS
Thallium	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	9/16/21	200.8	DS
Total Hardness (as CaCO3)	74	31	18	27	AqTot	mg/L	9/16/21	2340B	DS



LABORATORY REPORT

EAI ID#: **232083**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Dalton | Surface Water | 1003.20**

Sample ID: AB-1_20210914 SWDUP
-1_20210914

Lab Sample ID: 232083.05 232083.06

Matrix: aqueous aqueous

Date Sampled: 9/14/21 9/14/21

Date Received: 9/15/21 9/15/21

			Analytical Matrix	Units	Date of Analysis	Method	Analyst
Antimony	< 0.001	< 0.001	AqTot	mg/L	9/16/21	200.8	DS
Arsenic	0.00058	< 0.0005	AqTot	mg/L	9/16/21	200.8	DS
Barium	0.0081	0.020	AqTot	mg/L	9/16/21	200.8	DS
Beryllium	< 0.001	< 0.001	AqTot	mg/L	9/16/21	200.8	DS
Cadmium	< 0.001	< 0.001	AqTot	mg/L	9/16/21	200.8	DS
Chromium	< 0.001	< 0.001	AqTot	mg/L	9/16/21	200.8	DS
Copper	< 0.001	< 0.001	AqTot	mg/L	9/16/21	200.8	DS
Iron	0.45	0.41	AqTot	mg/L	9/16/21	200.8	DS
Lead	< 0.001	< 0.001	AqTot	mg/L	9/16/21	200.8	DS
Magnesium	2.2	2.2	AqTot	mg/L	9/16/21	200.8	DS
Manganese	0.20	0.082	AqTot	mg/L	9/16/21	200.8	DS
Mercury	< 0.0001	< 0.0001	AqTot	mg/L	9/16/21	200.8	DS
Nickel	< 0.001	< 0.001	AqTot	mg/L	9/16/21	200.8	DS
Potassium	1.1	1.5	AqTot	mg/L	9/16/21	200.8	DS
Silver	< 0.001	< 0.001	AqTot	mg/L	9/16/21	200.8	DS
Thallium	< 0.001	< 0.001	AqTot	mg/L	9/16/21	200.8	DS
Antimony	< 0.001	< 0.001	AqDis	mg/L	9/16/21	200.8	DS
Arsenic	0.00056	< 0.0005	AqDis	mg/L	9/16/21	200.8	DS
Barium	0.0080	0.018	AqDis	mg/L	9/16/21	200.8	DS
Beryllium	< 0.001	< 0.001	AqDis	mg/L	9/16/21	200.8	DS
Cadmium	< 0.001	< 0.001	AqDis	mg/L	9/16/21	200.8	DS
Chromium	< 0.001	< 0.001	AqDis	mg/L	9/16/21	200.8	DS
Copper	< 0.001	0.0032	AqDis	mg/L	9/16/21	200.8	DS
Iron	0.26	< 0.05	AqDis	mg/L	9/16/21	200.8	DS
Lead	< 0.001	< 0.001	AqDis	mg/L	9/16/21	200.8	DS
Magnesium	2.2	2.2	AqDis	mg/L	9/16/21	200.8	DS
Manganese	0.17	0.0078	AqDis	mg/L	9/16/21	200.8	DS
Mercury	< 0.0001	< 0.0001	AqDis	mg/L	9/16/21	200.8	DS
Nickel	< 0.001	< 0.001	AqDis	mg/L	9/16/21	200.8	DS
Potassium	2.8	1.4	AqDis	mg/L	9/16/21	200.8	DS
Silver	< 0.001	< 0.001	AqDis	mg/L	9/16/21	200.8	DS
Thallium	< 0.001	< 0.001	AqDis	mg/L	9/16/21	200.8	DS
Total Hardness (as CaCO3)	35	68	AqTot	mg/L	9/16/21	2340B	DS



QC REPORT

EAI ID#: **232083**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Dalton | Surface Water | 1003.20**

Parameter Name	Blank	LCS	LCSD	Units	Date of Analysis	Limits	RPD	Method
Antimony	< 0.001	0.21 (103 %R)		NA mg/L	9/16/21	85 - 115	20	200.8
Arsenic	< 0.0005	0.21 (103 %R)		NA mg/L	9/16/21	85 - 115	20	200.8
Barium	< 0.001	0.20 (102 %R)		NA mg/L	9/16/21	85 - 115	20	200.8
Beryllium	< 0.001	0.22 (111 %R)		NA mg/L	9/16/21	85 - 115	20	200.8
Cadmium	< 0.001	0.21 (103 %R)		NA mg/L	9/16/21	85 - 115	20	200.8
Chromium	< 0.001	0.21 (103 %R)		NA mg/L	9/16/21	85 - 115	20	200.8
Copper	< 0.001	0.20 (101 %R)		NA mg/L	9/16/21	85 - 115	20	200.8
Iron	< 0.05	11 (103 %R)		NA mg/L	9/16/21	85 - 115	20	200.8
Lead	< 0.001	0.20 (99 %R)		NA mg/L	9/16/21	85 - 115	20	200.8
Magnesium	< 0.05	10 (102 %R)		NA mg/L	9/16/21	85 - 115	20	200.8
Manganese	< 0.005	0.21 (103 %R)		NA mg/L	9/16/21	85 - 115	20	200.8
Mercury	< 0.0001	0.0010 (101 %R)		NA mg/L	9/16/21	85 - 115	20	200.8
Nickel	< 0.001	0.20 (102 %R)		NA mg/L	9/16/21	85 - 115	20	200.8
Potassium	< 0.05	11 (105 %R)		NA mg/L	9/16/21	85 - 115	20	200.8
Silver	< 0.001	0.18 (91 %R)		NA mg/L	9/16/21	85 - 115	20	200.8
Thallium	< 0.001	0.20 (100 %R)		NA mg/L	9/16/21	85 - 115	20	200.8

Metals Aqueous Dissolved QC

*! Flagged analyte recoveries deviated from the QA/QC limits. Unless noted, flagged data does not impact the sample data.



QC REPORT

EAI ID#: 232083

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Dalton | Surface Water | 1003.20**

Parameter Name	Blank	LCS	LCSD	Units	Date of Analysis	Limits	RPD	Method
Antimony	< 0.001	1.0 (104 %R)		NA	mg/L 9/16/21	85 - 115	20	200.8
Arsenic	< 0.0005	1.1 (109 %R)		NA	mg/L 9/16/21	85 - 115	20	200.8
Barium	< 0.001	1.1 (109 %R)		NA	mg/L 9/16/21	85 - 115	20	200.8
Beryllium	< 0.001	1.2 (121 %R)		NA	mg/L 9/16/21	85 - 115	20	200.8
Calcium	< 0.05	12 (109 %R)		NA	mg/L 9/16/21	85 - 115	20	200.8
Cadmium	< 0.001	1.1 (109 %R)		NA	mg/L 9/16/21	85 - 115	20	200.8
Chromium	< 0.001	1.0 (105 %R)		NA	mg/L 9/16/21	85 - 115	20	200.8
Copper	< 0.001	1.0 (102 %R)		NA	mg/L 9/16/21	85 - 115	20	200.8
Iron	< 0.05	12 (106 %R)		NA	mg/L 9/16/21	85 - 115	20	200.8
Lead	< 0.001	1.0 (100 %R)		NA	mg/L 9/16/21	85 - 115	20	200.8
Magnesium	< 0.05	13 (114 %R)		NA	mg/L 9/16/21	85 - 115	20	200.8
Manganese	< 0.005	1.1 (107 %R)		NA	mg/L 9/16/21	85 - 115	20	200.8
Mercury	< 0.0001	0.0011 (114 %R)		NA	mg/L 9/16/21	85 - 115	20	200.8
Nickel	< 0.001	1.1 (109 %R)		NA	mg/L 9/16/21	85 - 115	20	200.8
Potassium	< 0.05	12 (113 %R)		NA	mg/L 9/16/21	85 - 115	20	200.8
Silver	< 0.001	0.011 (108 %R)		NA	mg/L 9/16/21	85 - 115	20	200.8
Thallium	< 0.001	0.99 (99 %R)		NA	mg/L 9/16/21	85 - 115	20	200.8

Metals Aqueous Total QC

The laboratory control sample for Beryllium did not meet the acceptance criteria. The high bias has no impact on the data reported as no Beryllium was found in any of the samples.

*! Flagged analyte recoveries deviated from the QA/QC limits. Unless noted, flagged data does not impact the sample data.

Chain-of-Custody Record

For Lab

232083

Sample ID	Sampling Date/Time <small>*If Composite, Indicate Both Start & Finish Date/Time</small>	Matrix (see below)	Grab/*Composite	Analyses Requested															# of Containers	NOTES <small>MeOH Vial #</small>						
				VOCs - EPA 8260C	Low Level 1,4-Dioxane (USEPA 8260B-SIM)	Low Level EDB/DIBP (604.1)	SVOCs (EPA 8270D)	COD (SM 6220D)	TKN (SM 4500/Norg/ClNH3D)	DOC (5310C)	Chloride, Nitrate, Sulfate (EPA 300.0)	Sulfide (Tech 8131)	Alkalinity (SM 2320B)	Dissolved Metals List A (EPA 200.8)	Total Metals List A (EPA 200.8)	Hardness (EPA 200.8/ SM 2340B)										
SG-1_202109		SW	G	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	14	MTS
SG-2_202109		SW	G	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	14	MTS
SG-3_202109	9/14/21	1615	SW	G	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	14	
SG-4_202109	↓	1335	SW	G	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	14	
SG-5_202109	↓	1415	SW	G	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	14	
SG-6_202109	↓	1445	SW	G	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	14	
SP-1_202109			SW	G	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	14	MTS
AB-1_202109	9/14/21	1505	SW	G	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	14	
SWDUP-1_202109	↓	1615	SW	G	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	14	
TB-SW-01_202109	↓	1715	AQ	G	X																			2		
TB-LL-SW-01_202109	↓	1715	AQ	G		X																		2		
TB-SW-02_202109			AQ	G	X																			2	MTS	
TB-LL-SW-02_202109			AQ	G		X																		2	MTS	
Matrix: A-Air; S-Soil; GW-Ground Water; SW-Surface Water; DW-Drinking Water; WW-Waste Water; AQ-Aqueous				H	Ice	NSO	Ice	S	S	Ice	Ice	ZnAc/NaOH	Ice	N	N	N										
Preservative: H-HCl; N-HNO3; S-H2SO4; Na-NaOH; M-MeOH; NSO-Na2S2O3																										

Project Manager: T. White
 Company: Sanborn, Head & Associates, Inc.
 Address: 20 Foundry Street
 City: Concord State: NH Zip: 03301
 Phone: 603-229-1900 Ext.:
 Fax: 603-229-1919
 E-Mail: twhite@sanbornhead.com
 Site Name: Dalton | Surface Water
 Project #: 1003.20
 State: NH
 Regulatory Program: NPDES: RGP POTW Stormwater or GWP, Oil Fund, Brownfield or Other.
 Quote #: PO#:

Date Needed: Standard TAT
 QA/QC Reporting Level: **A** **B** C
 Presumptive Certainty
 Reporting Options: Prelims: Yes or No; If Yes: Fax or PDF
 Electronic Options: No Fax | E-Mail | PDF | Equis
 Relinquished By: *M. Stein* Date: *9/14/21* Time: *1715*
 Relinquished By: *G. Panik* Date: *9/15/21* Time: *8:17*
 Relinquished By: *[Signature]* Date: *9/15/21* Time: *8:35*

Temp. 07 °C
 Ice? Yes No

Metals: Lists Below Samples Field Filtered: Yes
 A: Fe, Mn, As, Sb, Ba, Be, Cd, Cr, Cu, Pb, Hg, Ni, Ag, Tl, Mg, K
 B:
 Notes: (i.e., Special Detection Limits, Billing Info, If Different)
 Trip blank(s) prepared by EAI.
 Bill: GSL.
 *Report 1,4-dioxane to 0.25 ug/l RL
 *Hold Final report until Equis EDD
 Site History:
 Suspected Contamination:
 Field Readings:



P:\1000s\1003.20\Analytical\2021-09\Event Set Up\2021-09 EAI COCs.xlsx

Appendix K.6

October 2021 Analytical Laboratory Reports

Tim White
Sanborn, Head & Associates, Inc. (NH)
20 Foundry Street
Concord, NH 03301



Laboratory Report for:

Eastern Analytical, Inc. ID: 233428
Client Identification: Dalton | Groundwater / 1003.20
Date Received: 10/11/2021

Enclosed are the analytical results per the Chain of Custody for sample(s) in the referenced project. All analyses were performed in accordance with our QA/QC Program, NELAP and other applicable state requirements. All quality control criteria was within acceptance criteria unless noted on the report pages. Results are for the exclusive use of the client named on this report and will not be released to a third party without consent.

The following information is contained within this report: Sample Conditions summary, Analytical Results/Data, Quality Control data (if requested) and copies of the Chain of Custody. This report may not be reproduced except in full, without the written approval of the laboratory.

The following standard abbreviations and conventions apply to all EAI reports:

- < : "less than" followed by the reporting limit
- > : "greater than" followed by the reporting limit
- %R : % Recovery

Certifications:

Eastern Analytical, Inc. maintains certification in the following states: Connecticut (PH-0492), Maine (NH005), Massachusetts (M-NH005), New Hampshire/NELAP (1012), Rhode Island (269), Vermont (VT1012), New York (12072), West Virginia (9910C) and Alabama (41620). Please refer to our website at www.easternanalytical.com for a copy of our certificates and accredited parameters.

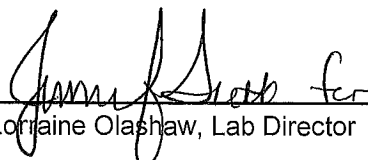
References:

- EPA 600/4-79-020, 1983
- Standard Methods for Examination of Water and Wastewater, 20th, 21st, 22nd & 23rd edition or noted revision year.
- Test Methods for Evaluating Solid Waste SW 846 3rd Edition including updates IVA and IVB
- Hach Water Analysis Handbook, 4th edition, 1992

If you have any questions regarding the results contained within, please feel free to contact customer service. Unless otherwise requested, we will dispose of the sample(s) 6 weeks from the sample receipt date.

We appreciate this opportunity to be of service and look forward to your continued patronage.

Sincerely,


Lorraine O'Leary, Lab Director

10/21/21
Date



SAMPLE CONDITIONS PAGE

EAI ID#: 233428

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Dalton | Groundwater / 1003.20**

Temperature upon receipt (°C): 0.1

Received on ice or cold packs (Yes/No): Y

Acceptable temperature range (°C): 0-6

Lab ID	Sample ID	Date Received	Date/Time Sampled	Sample Matrix	% Dry Weight	Exceptions/Comments (other than thermal preservation)
233428.01	MW-35R_20211011	10/11/21	10/11/21 10:33	aqueous		Adheres to Sample Acceptance Policy
233428.02	MW-39_20211011	10/11/21	10/11/21 11:40	aqueous		Adheres to Sample Acceptance Policy
233428.03	TB-GW-01_20211011	10/11/21	10/11/21 11:45	aqueous		Adheres to Sample Acceptance Policy

All results contained in this report relate only to the above listed samples.

Unless otherwise noted:

- Hold times, preservation, container types, and sample conditions adhered to EPA Protocol.
- Solid samples are reported on a dry weight basis, unless otherwise noted. pH/Corrosivity, Flashpoint, Ignitability, Paint Filter, Conductivity and Specific Gravity are always reported on an "as received" basis.
- Analysis of pH, Total Residual Chlorine, Dissolved Oxygen and Sulfite were performed at the laboratory outside of the recommended 15 minute hold time.
- Samples collected by Eastern Analytical, Inc. (EAI) were collected in accordance with approved EPA procedures.



LABORATORY REPORT

EAI ID#: 233428

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Dalton | Groundwater / 1003.20**

Sample ID: MW-39_20211011 TB-GW-01_20211011

Lab Sample ID:	233428.02	233428.03
Matrix:	aqueous	aqueous
Date Sampled:	10/11/21	10/11/21
Date Received:	10/11/21	10/11/21
Units:	ug/L	ug/L
Date of Analysis:	10/13/21	10/13/21
Analyst:	JAK	JAK
Method:	8260C	8260C
Dilution Factor:	1	1

Dichlorodifluoromethane	< 2	< 2
Chloromethane	< 2	< 2
Vinyl chloride	< 1	< 1
Bromomethane	< 2	< 2
Chloroethane	< 2	< 2
Trichlorofluoromethane	< 2	< 2
Diethyl Ether	< 2	< 2
Acetone	< 10	< 10
1,1-Dichloroethene	< 0.5	< 0.5
tert-Butyl Alcohol (TBA)	< 30	< 30
Methylene chloride	< 1	< 1
Carbon disulfide	< 2	< 2
Methyl-t-butyl ether(MTBE)	< 1	< 1
Ethyl-t-butyl ether(ETBE)	< 2	< 2
Isopropyl ether(DIPE)	< 2	< 2
tert-amyl methyl ether(TAME)	< 2	< 2
trans-1,2-Dichloroethene	< 1	< 1
1,1-Dichloroethane	< 1	< 1
2,2-Dichloropropane	< 1	< 1
cis-1,2-Dichloroethene	< 1	< 1
2-Butanone(MEK)	< 10	< 10
Bromochloromethane	< 1	< 1
Tetrahydrofuran(THF)	< 10	< 10
Chloroform	< 1	< 1
1,1,1-Trichloroethane	< 1	< 1
Carbon tetrachloride	< 1	< 1
1,1-Dichloropropene	< 1	< 1
Benzene	< 1	< 1
1,2-Dichloroethane	< 1	< 1
Trichloroethene	< 1	< 1
1,2-Dichloropropane	< 1	< 1
Dibromomethane	< 1	< 1
Bromodichloromethane	< 0.5	< 0.5
1,4-Dioxane	< 50	< 50
4-Methyl-2-pentanone(MIBK)	< 10	< 10
cis-1,3-Dichloropropene	< 0.5	< 0.5
Toluene	< 1	< 1
trans-1,3-Dichloropropene	< 0.5	< 0.5
1,1,2-Trichloroethane	< 1	< 1
2-Hexanone	< 10	< 10
Tetrachloroethene	< 1	< 1
1,3-Dichloropropane	< 1	< 1
Dibromochloromethane	< 1	< 1
1,2-Dibromoethane(EDB)	< 0.5	< 0.5
Chlorobenzene	< 1	< 1
1,1,1,2-Tetrachloroethane	< 1	< 1



LABORATORY REPORT

EAI ID#: 233428

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Dalton | Groundwater / 1003.20**

Sample ID: MW-39_20211011 TB-GW-01_20211011

Lab Sample ID:	233428.02	233428.03
Matrix:	aqueous	aqueous
Date Sampled:	10/11/21	10/11/21
Date Received:	10/11/21	10/11/21
Units:	ug/L	ug/L
Date of Analysis:	10/13/21	10/13/21
Analyst:	JAK	JAK
Method:	8260C	8260C
Dilution Factor:	1	1
Ethylbenzene	< 1	< 1
mp-Xylene	< 1	< 1
o-Xylene	< 1	< 1
Styrene	< 1	< 1
Bromoform	< 2	< 2
IsoPropylbenzene	< 1	< 1
Bromobenzene	< 1	< 1
1,1,2,2-Tetrachloroethane	< 1	< 1
1,2,3-Trichloropropane	< 0.5	< 0.5
n-Propylbenzene	< 1	< 1
2-Chlorotoluene	< 1	< 1
4-Chlorotoluene	< 1	< 1
1,3,5-Trimethylbenzene	< 1	< 1
tert-Butylbenzene	< 1	< 1
1,2,4-Trimethylbenzene	< 1	< 1
sec-Butylbenzene	< 1	< 1
1,3-Dichlorobenzene	< 1	< 1
p-Isopropyltoluene	< 1	< 1
1,4-Dichlorobenzene	< 1	< 1
1,2-Dichlorobenzene	< 1	< 1
n-Butylbenzene	< 1	< 1
1,2-Dibromo-3-chloropropane	< 2	< 2
1,3,5-Trichlorobenzene	< 1	< 1
1,2,4-Trichlorobenzene	< 1	< 1
Hexachlorobutadiene	< 0.5	< 0.5
Naphthalene	< 2	< 2
1,2,3-Trichlorobenzene	< 0.5	< 0.5
4-Bromofluorobenzene (surr)	75 %R	79 %R
1,2-Dichlorobenzene-d4 (surr)	113 %R	109 %R
Toluene-d8 (surr)	102 %R	106 %R
1,2-Dichloroethane-d4 (surr)	101 %R	103 %R



QC REPORT

EAI ID#: 233428

Client: Sanborn, Head & Associates, Inc. (NH)

Batch ID: 637697-36276/A101321V82601

Client Designation: Dalton | Groundwater / 1003.20

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
Dichlorodifluoromethane	< 2	28 (140 %R)	27 (133 %R) (5 RPD)	10/13/2021	ug/L	40 - 160	20	8260C
Chloromethane	< 2	26 (131 %R)	25 (125 %R) (5 RPD)	10/13/2021	ug/L	40 - 160	20	8260C
Vinyl chloride	< 1	24 (121 %R)	23 (113 %R) (6 RPD)	10/13/2021	ug/L	70 - 130	20	8260C
Bromomethane	< 2	28 (139 %R)	28 (138 %R) (1 RPD)	10/13/2021	ug/L	40 - 160	20	8260C
Chloroethane	< 2	23 (116 %R)	22 (110 %R) (5 RPD)	10/13/2021	ug/L	70 - 130	20	8260C
Trichlorofluoromethane	< 2	* 27 (136 %R)	26 (129 %R) (5 RPD)	10/13/2021	ug/L	70 - 130	20	8260C
Diethyl Ether	< 2	22 (109 %R)	22 (109 %R) (1 RPD)	10/13/2021	ug/L	70 - 130	20	8260C
Acetone	< 10	17 (87 %R)	18 (88 %R) (1 RPD)	10/13/2021	ug/L	40 - 160	20	8260C
1,1-Dichloroethene	< 0.5	22 (111 %R)	21 (106 %R) (5 RPD)	10/13/2021	ug/L	70 - 130	20	8260C
tert-Butyl Alcohol (TBA)	< 30	100 (101 %R)	100 (103 %R) (2 RPD)	10/13/2021	ug/L	70 - 130	20	8260C
Methylene chloride	< 1	21 (106 %R)	20 (101 %R) (5 RPD)	10/13/2021	ug/L	70 - 130	20	8260C
Carbon disulfide	< 2	20 (102 %R)	19 (96 %R) (6 RPD)	10/13/2021	ug/L	70 - 130	20	8260C
Methyl-t-butyl ether(MTBE)	< 1	19 (97 %R)	19 (96 %R) (1 RPD)	10/13/2021	ug/L	70 - 130	20	8260C
Ethyl-t-butyl ether(ETBE)	< 2	20 (100 %R)	20 (99 %R) (1 RPD)	10/13/2021	ug/L	70 - 130	20	8260C
Isopropyl ether(DIPE)	< 2	20 (100 %R)	20 (98 %R) (1 RPD)	10/13/2021	ug/L	70 - 130	20	8260C
tert-amyl methyl ether(TAME)	< 2	20 (101 %R)	20 (101 %R) (0 RPD)	10/13/2021	ug/L	70 - 130	20	8260C
trans-1,2-Dichloroethene	< 1	22 (109 %R)	21 (105 %R) (4 RPD)	10/13/2021	ug/L	70 - 130	20	8260C
1,1-Dichloroethane	< 1	22 (109 %R)	21 (105 %R) (4 RPD)	10/13/2021	ug/L	70 - 130	20	8260C
2,2-Dichloropropane	< 1	23 (115 %R)	22 (109 %R) (6 RPD)	10/13/2021	ug/L	70 - 130	20	8260C
cis-1,2-Dichloroethene	< 1	22 (108 %R)	21 (104 %R) (4 RPD)	10/13/2021	ug/L	70 - 130	20	8260C
2-Butanone(MEK)	< 10	19 (93 %R)	19 (94 %R) (2 RPD)	10/13/2021	ug/L	40 - 160	20	8260C
Bromochloromethane	< 1	23 (117 %R)	23 (115 %R) (2 RPD)	10/13/2021	ug/L	70 - 130	20	8260C
Tetrahydrofuran(THF)	< 10	19 (96 %R)	19 (97 %R) (2 RPD)	10/13/2021	ug/L	70 - 130	20	8260C
Chloroform	< 1	21 (106 %R)	20 (102 %R) (4 RPD)	10/13/2021	ug/L	70 - 130	20	8260C
1,1,1-Trichloroethane	< 1	21 (105 %R)	20 (100 %R) (5 RPD)	10/13/2021	ug/L	70 - 130	20	8260C
Carbon tetrachloride	< 1	21 (106 %R)	20 (101 %R) (5 RPD)	10/13/2021	ug/L	70 - 130	20	8260C
1,1-Dichloropropene	< 1	20 (102 %R)	20 (98 %R) (4 RPD)	10/13/2021	ug/L	70 - 130	20	8260C
Benzene	< 1	23 (114 %R)	22 (110 %R) (4 RPD)	10/13/2021	ug/L	70 - 130	20	8260C
1,2-Dichloroethane	< 1	19 (97 %R)	19 (95 %R) (2 RPD)	10/13/2021	ug/L	70 - 130	20	8260C
Trichloroethene	< 1	21 (106 %R)	20 (101 %R) (4 RPD)	10/13/2021	ug/L	70 - 130	20	8260C
1,2-Dichloropropane	< 1	22 (112 %R)	22 (109 %R) (3 RPD)	10/13/2021	ug/L	70 - 130	20	8260C
Dibromomethane	< 1	22 (109 %R)	22 (108 %R) (1 RPD)	10/13/2021	ug/L	70 - 130	20	8260C
Bromodichloromethane	< 0.5	22 (109 %R)	21 (106 %R) (3 RPD)	10/13/2021	ug/L	70 - 130	20	8260C
1,4-Dioxane	< 50	< 50 (130 %R)	< 50 (133 %R) (2 RPD)	10/13/2021	ug/L	40 - 160	20	8260C
4-Methyl-2-pentanone(MIBK)	< 10	20 (101 %R)	21 (103 %R) (2 RPD)	10/13/2021	ug/L	40 - 160	20	8260C
cis-1,3-Dichloropropene	< 0.5	23 (116 %R)	23 (114 %R) (1 RPD)	10/13/2021	ug/L	70 - 130	20	8260C
Toluene	< 1	24 (120 %R)	23 (115 %R) (5 RPD)	10/13/2021	ug/L	70 - 130	20	8260C
trans-1,3-Dichloropropene	< 0.5	23 (115 %R)	23 (113 %R) (2 RPD)	10/13/2021	ug/L	70 - 130	20	8260C
1,1,2-Trichloroethane	< 1	23 (117 %R)	23 (115 %R) (2 RPD)	10/13/2021	ug/L	70 - 130	20	8260C
2-Hexanone	< 10	20 (98 %R)	20 (99 %R) (2 RPD)	10/13/2021	ug/L	40 - 160	20	8260C
Tetrachloroethene	< 1	23 (117 %R)	22 (111 %R) (5 RPD)	10/13/2021	ug/L	70 - 130	20	8260C
1,3-Dichloropropane	< 1	23 (113 %R)	22 (111 %R) (1 RPD)	10/13/2021	ug/L	70 - 130	20	8260C
Dibromochloromethane	< 1	22 (112 %R)	22 (110 %R) (2 RPD)	10/13/2021	ug/L	70 - 130	20	8260C
1,2-Dibromoethane(EDB)	< 0.5	23 (117 %R)	23 (114 %R) (2 RPD)	10/13/2021	ug/L	70 - 130	20	8260C
Chlorobenzene	< 1	23 (117 %R)	23 (113 %R) (4 RPD)	10/13/2021	ug/L	70 - 130	20	8260C
1,1,1,2-Tetrachloroethane	< 1	23 (115 %R)	22 (111 %R) (3 RPD)	10/13/2021	ug/L	70 - 130	20	8260C



QC REPORT

EAI ID#: 233428

Client: Sanborn, Head & Associates, Inc. (NH)

Batch ID: 637697-36276/A101321V82601

Client Designation: Dalton | Groundwater / 1003.20

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
Ethylbenzene	< 1	25 (127 %R)	24 (121 %R) (5 RPD)	10/13/2021	ug/L	70 - 130	20	8260C
mp-Xylene	< 1	44 (109 %R)	42 (104 %R) (4 RPD)	10/13/2021	ug/L	70 - 130	20	8260C
o-Xylene	< 1	24 (122 %R)	23 (117 %R) (4 RPD)	10/13/2021	ug/L	70 - 130	20	8260C
Styrene	< 1	23 (114 %R)	20 (101 %R) (13 RPD)	10/13/2021	ug/L	70 - 130	20	8260C
Bromoforn	< 2	24 (118 %R)	23 (117 %R) (1 RPD)	10/13/2021	ug/L	70 - 130	20	8260C
IsoPropylbenzene	< 1	24 (122 %R)	23 (116 %R) (5 RPD)	10/13/2021	ug/L	70 - 130	20	8260C
Bromobenzene	< 1	22 (109 %R)	21 (105 %R) (4 RPD)	10/13/2021	ug/L	70 - 130	20	8260C
1,1,2,2-Tetrachloroethane	< 1	21 (104 %R)	20 (102 %R) (2 RPD)	10/13/2021	ug/L	70 - 130	20	8260C
1,2,3-Trichloropropane	< 0.5	20 (98 %R)	19 (97 %R) (1 RPD)	10/13/2021	ug/L	70 - 130	20	8260C
n-Propylbenzene	< 1	24 (122 %R)	23 (115 %R) (6 RPD)	10/13/2021	ug/L	70 - 130	20	8260C
2-Chlorotoluene	< 1	25 (124 %R)	23 (117 %R) (6 RPD)	10/13/2021	ug/L	70 - 130	20	8260C
4-Chlorotoluene	< 1	24 (118 %R)	23 (113 %R) (5 RPD)	10/13/2021	ug/L	70 - 130	20	8260C
1,3,5-Trimethylbenzene	< 1	26 (128 %R)	24 (121 %R) (6 RPD)	10/13/2021	ug/L	70 - 130	20	8260C
tert-Butylbenzene	< 1	23 (113 %R)	21 (107 %R) (5 RPD)	10/13/2021	ug/L	70 - 130	20	8260C
1,2,4-Trimethylbenzene	< 1	26 (128 %R)	24 (122 %R) (5 RPD)	10/13/2021	ug/L	70 - 130	20	8260C
sec-Butylbenzene	< 1	25 (127 %R)	24 (120 %R) (6 RPD)	10/13/2021	ug/L	70 - 130	20	8260C
1,3-Dichlorobenzene	< 1	22 (111 %R)	21 (106 %R) (4 RPD)	10/13/2021	ug/L	70 - 130	20	8260C
p-Isopropyltoluene	< 1	23 (117 %R)	22 (111 %R) (6 RPD)	10/13/2021	ug/L	70 - 130	20	8260C
1,4-Dichlorobenzene	< 1	22 (108 %R)	21 (103 %R) (5 RPD)	10/13/2021	ug/L	70 - 130	20	8260C
1,2-Dichlorobenzene	< 1	21 (107 %R)	21 (103 %R) (4 RPD)	10/13/2021	ug/L	70 - 130	20	8260C
n-Butylbenzene	< 1	23 (117 %R)	22 (110 %R) (6 RPD)	10/13/2021	ug/L	70 - 130	20	8260C
1,2-Dibromo-3-chloropropane	< 2	19 (93 %R)	19 (93 %R) (1 RPD)	10/13/2021	ug/L	70 - 130	20	8260C
1,3,5-Trichlorobenzene	< 1	19 (95 %R)	18 (91 %R) (4 RPD)	10/13/2021	ug/L	70 - 130	20	8260C
1,2,4-Trichlorobenzene	< 1	17 (85 %R)	17 (83 %R) (3 RPD)	10/13/2021	ug/L	70 - 130	20	8260C
Hexachlorobutadiene	< 0.5	21 (103 %R)	19 (97 %R) (6 RPD)	10/13/2021	ug/L	70 - 130	20	8260C
Naphthalene	< 2	20 (100 %R)	20 (99 %R) (1 RPD)	10/13/2021	ug/L	70 - 130	20	8260C
1,2,3-Trichlorobenzene	< 0.5	19 (96 %R)	19 (93 %R) (3 RPD)	10/13/2021	ug/L	70 - 130	20	8260C
4-Bromofluorobenzene (surr)	72 %R	103 %R	103 %R	10/13/2021	% Rec	70 - 130	20	8260C
1,2-Dichlorobenzene-d4 (surr)	115 %R	94 %R	94 %R	10/13/2021	% Rec	70 - 130	20	8260C
Toluene-d8 (surr)	99 %R	104 %R	103 %R	10/13/2021	% Rec	70 - 130	20	8260C

*! Flagged analyte recoveries deviated from the QA/QC limits. Data that impacts sample results are noted on the sample report.



LABORATORY REPORT

EAI ID#: 233428

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Dalton | Groundwater / 1003.20**

Sample ID: MW-35R_20211011

Lab Sample ID: 233428.01
Matrix: aqueous
Date Sampled: 10/11/21
Date Received: 10/11/21
Units: ug/L
Date of Extraction/Prep: 10/12/21
Date of Analysis: 10/12/21
Analyst: JMR
Method: 8270D
Dilution Factor: 1

alpha-Terpineol	< 5
Phenol	< 1
2-Chlorophenol	< 1
2,4-Dichlorophenol	< 1
2,4,5-Trichlorophenol	< 1
2,4,6-Trichlorophenol	< 1
Pentachlorophenol	< 5
2-Nitrophenol	< 5
4-Nitrophenol	< 5
2,4-Dinitrophenol	< 10
2-Methylphenol	< 1
3/4-Methylphenol	< 1
2,4-Dimethylphenol	< 5
4-Chloro-3-methylphenol	< 1
4,6-Dinitro-2-methylphenol	< 5
Benzoic Acid	< 50
N-Nitrosodimethylamine	< 1
n-Nitroso-di-n-propylamine	< 0.5
n-Nitrosodiphenylamine	< 1
bis(2-Chloroethyl)ether	< 1
bis(2-chloroisopropyl)ether	< 1
bis(2-Chloroethoxy)methane	< 1
1,3-Dichlorobenzene	< 1
Acetophenone	< 10
1,4-Dichlorobenzene	< 1
1,2-Dichlorobenzene	< 1
1,2,4-Trichlorobenzene	< 1
2-Chloronaphthalene	< 1
4-Chlorophenyl-phenylether	< 1
4-Bromophenyl-phenylether	< 1
Hexachloroethane	< 1
Hexachlorobutadiene	< 1
Hexachlorocyclopentadiene	< 5
Hexachlorobenzene	< 1
4-Chloroaniline	< 1
2,3-Dichloroaniline	< 1
2-Nitroaniline	< 5
3-Nitroaniline	< 5
4-Nitroaniline	< 5
Aniline	< 1
Benzyl alcohol	< 10
Nitrobenzene	< 1
Isophorone	< 1
2,4-Dinitrotoluene	< 2
2,6-Dinitrotoluene	< 2
Benzidine (estimated)	< 5
3,3'-Dichlorobenzidine	< 1



LABORATORY REPORT

EAI ID#: 233428

Client: **Sanborn, Head & Associates, Inc. (NH)**
Client Designation: **Dalton | Groundwater / 1003.20**

Sample ID: MW-35R_20211011

Lab Sample ID: 233428.01
Matrix: aqueous
Date Sampled: 10/11/21
Date Received: 10/11/21
Units: ug/L
Date of Extraction/Prep: 10/12/21
Date of Analysis: 10/12/21
Analyst: JMR
Method: 8270D
Dilution Factor: 1

Pyridine	< 5
Azobenzene	< 1
Carbazole	< 1
Dimethylphthalate	< 1
Diethylphthalate	< 5
Di-n-butylphthalate	< 5
Butylbenzylphthalate	< 5
bis(2-Ethylhexyl)phthalate	< 5
Di-n-octylphthalate	< 5
Dibenzofuran	< 1
Naphthalene	< 0.1
2-Methylnaphthalene	< 0.1
1-Methylnaphthalene	< 0.1
Acenaphthylene	< 0.1
Acenaphthene	< 0.1
Fluorene	< 0.1
Phenanthrene	< 0.1
Anthracene	< 0.1
Fluoranthene	< 0.1
Pyrene	< 0.1
Benzo[a]anthracene	< 0.1
Chrysene	< 0.1
Benzo[b]fluoranthene	< 0.1
Benzo[k]fluoranthene	< 0.1
Benzo[a]pyrene	< 0.1
Indeno[1,2,3-cd]pyrene	< 0.1
Dibenz[a,h]anthracene	< 0.1
Benzo[g,h,i]perylene	< 0.1
n-Decane	< 5
n-Octadecane	< 5
2-Fluorophenol (surr)	34 %R
Phenol-d6 (surr)	24 %R
2,4,6-Tribromophenol (surr)	64 %R
Nitrobenzene-D5 (surr)	64 %R
2-Fluorobiphenyl (surr)	60 %R
p-Terphenyl-D14 (surr)	64 %R



QC REPORT

EAI ID#: 233428

Client: **Sanborn, Head & Associates, Inc. (NH)**

Batch ID: 637696-21187/A101221ABN1

Client Designation: **Dalton | Groundwater / 1003.20**

Parameter Name	Blank	LCS	LCS D	Analysis Date	Units	Limits	RPD	Method
alpha-Terpineol	< 5	17 (68 %R)	15 (61 %R) (11 RPD)	10/12/2021	ug/L	40 - 140	20	8270D
Phenol	< 1	12 (24 %R)	10 (21 %R) (16 RPD)	10/12/2021	ug/L	15 - 130	20	8270D
2-Chlorophenol	< 1	29 (58 %R)	24 (48 %R) (19 RPD)	10/12/2021	ug/L	30 - 130	20	8270D
2,4-Dichlorophenol	< 1	34 (68 %R)	29 (59 %R) (14 RPD)	10/12/2021	ug/L	30 - 130	20	8270D
2,4,5-Trichlorophenol	< 1	34 (68 %R)	32 (63 %R) (7 RPD)	10/12/2021	ug/L	30 - 130	20	8270D
2,4,6-Trichlorophenol	< 1	34 (68 %R)	31 (62 %R) (9 RPD)	10/12/2021	ug/L	30 - 130	20	8270D
Pentachlorophenol	< 5	32 (64 %R)	31 (62 %R) (3 RPD)	10/12/2021	ug/L	30 - 130	20	8270D
2-Nitrophenol	< 5	33 (66 %R)	28 (56 %R) (16 RPD)	10/12/2021	ug/L	30 - 130	20	8270D
4-Nitrophenol	< 5	14 (29 %R)	14 (29 %R) (0 RPD)	10/12/2021	ug/L	15 - 130	20	8270D
2,4-Dinitrophenol	< 10	11 (23 %R)	25 (50 %R) (74 RPD) !	10/12/2021	ug/L	15 - 130	20	8270D
2-Methylphenol	< 1	28 (55 %R)	23 (46 %R) (17 RPD)	10/12/2021	ug/L	30 - 130	20	8270D
3/4-Methylphenol	< 1	26 (53 %R)	23 (45 %R) (15 RPD)	10/12/2021	ug/L	30 - 130	20	8270D
2,4-Dimethylphenol	< 5	33 (65 %R)	29 (57 %R) (13 RPD)	10/12/2021	ug/L	30 - 130	20	8270D
4-Chloro-3-methylphenol	< 1	34 (68 %R)	31 (63 %R) (8 RPD)	10/12/2021	ug/L	30 - 130	20	8270D
4,6-Dinitro-2-methylphenol	< 5	32 (65 %R)	35 (70 %R) (8 RPD)	10/12/2021	ug/L	30 - 130	20	8270D
Benzoic Acid	< 50	* < 50 (9 %R)	* < 50 (11 %R) (16 RPD)	10/12/2021	ug/L	15 - 130	20	8270D
N-Nitrosodimethylamine	< 1	9.7 (39 %R)	8.3 (33 %R) (15 RPD)	10/12/2021	ug/L	15 - 140	20	8270D
n-Nitroso-di-n-propylamine	< 0.5	15 (62 %R)	13 (54 %R) (14 RPD)	10/12/2021	ug/L	40 - 140	20	8270D
n-Nitrosodiphenylamine	< 1	17 (68 %R)	16 (66 %R) (4 RPD)	10/12/2021	ug/L	40 - 140	20	8270D
bis(2-Chloroethyl)ether	< 1	15 (60 %R)	12 (49 %R) (19 RPD)	10/12/2021	ug/L	40 - 140	20	8270D
bis(2-chloroisopropyl)ether	< 1	15 (59 %R)	12 (49 %R) (19 RPD)	10/12/2021	ug/L	40 - 140	20	8270D
bis(2-Chloroethoxy)methane	< 1	16 (65 %R)	14 (57 %R) (14 RPD)	10/12/2021	ug/L	40 - 140	20	8270D
1,3-Dichlorobenzene	< 1	13 (52 %R)	10 (42 %R) (22 RPD) !	10/12/2021	ug/L	40 - 140	20	8270D
Acetophenone	< 10	15 (61 %R)	13 (52 %R) (16 RPD)	10/12/2021	ug/L	40 - 140	20	8270D
1,4-Dichlorobenzene	< 1	13 (52 %R)	10 (41 %R) (22 RPD) !	10/12/2021	ug/L	40 - 140	20	8270D
1,2-Dichlorobenzene	< 1	13 (54 %R)	11 (43 %R) (22 RPD) !	10/12/2021	ug/L	40 - 140	20	8270D
1,2,4-Trichlorobenzene	< 1	14 (57 %R)	12 (48 %R) (17 RPD)	10/12/2021	ug/L	40 - 140	20	8270D
2-Chloronaphthalene	< 1	16 (63 %R)	14 (57 %R) (11 RPD)	10/12/2021	ug/L	40 - 140	20	8270D
4-Chlorophenyl-phenylether	< 1	17 (68 %R)	16 (64 %R) (6 RPD)	10/12/2021	ug/L	40 - 140	20	8270D
4-Bromophenyl-phenylether	< 1	18 (70 %R)	17 (67 %R) (4 RPD)	10/12/2021	ug/L	40 - 140	20	8270D
Hexachloroethane	< 1	13 (54 %R)	11 (43 %R) (22 RPD) !	10/12/2021	ug/L	40 - 140	20	8270D
Hexachlorobutadiene	< 1	14 (56 %R)	12 (46 %R) (18 RPD)	10/12/2021	ug/L	40 - 140	20	8270D
Hexachlorocyclopentadiene	< 5	9.8 (39 %R)	8.4 (33 %R) (16 RPD)	10/12/2021	ug/L	15 - 140	20	8270D
Hexachlorobenzene	< 1	18 (71 %R)	17 (68 %R) (4 RPD)	10/12/2021	ug/L	40 - 140	20	8270D
4-Chloroaniline	< 1	17 (69 %R)	16 (63 %R) (10 RPD)	10/12/2021	ug/L	15 - 140	20	8270D
2,3-Dichloroaniline	< 1	16 (65 %R)	15 (60 %R) (9 RPD)	10/12/2021	ug/L	40 - 140	20	8270D
2-Nitroaniline	< 5	18 (71 %R)	17 (69 %R) (4 RPD)	10/12/2021	ug/L	40 - 140	20	8270D
3-Nitroaniline	< 5	18 (73 %R)	18 (72 %R) (1 RPD)	10/12/2021	ug/L	40 - 140	20	8270D
4-Nitroaniline	< 5	19 (75 %R)	18 (74 %R) (2 RPD)	10/12/2021	ug/L	40 - 140	20	8270D
Aniline	< 1	14 (57 %R)	12 (49 %R) (14 RPD)	10/12/2021	ug/L	40 - 140	20	8270D
Benzyl alcohol	< 10	14 (56 %R)	12 (49 %R) (13 RPD)	10/12/2021	ug/L	40 - 140	20	8270D
Nitrobenzene	< 1	16 (63 %R)	13 (54 %R) (16 RPD)	10/12/2021	ug/L	40 - 140	20	8270D
Isophorone	< 1	17 (69 %R)	16 (62 %R) (10 RPD)	10/12/2021	ug/L	40 - 140	20	8270D
2,4-Dinitrotoluene	< 2	19 (74 %R)	18 (73 %R) (1 RPD)	10/12/2021	ug/L	40 - 140	20	8270D
2,6-Dinitrotoluene	< 2	18 (74 %R)	18 (71 %R) (3 RPD)	10/12/2021	ug/L	40 - 140	20	8270D
Benzidine (estimated)	< 5	13 (53 %R)	13 (50 %R) (6 RPD)	10/12/2021	ug/L	1 - 200	50	8270D



QC REPORT

EAI ID#: 233428

Client: Sanborn, Head & Associates, Inc. (NH)

Batch ID: 637696-21187/A101221ABN1

Client Designation: Dalton | Groundwater / 1003.20

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
3,3'-Dichlorobenzidine	< 1	17 (69 %R)	16 (65 %R) (5 RPD)	10/12/2021	ug/L	40 - 140	20	8270D
Pyridine	< 5	9 (36 %R)	7.9 (32 %R) (13 RPD)	10/12/2021	ug/L	15 - 140	20	8270D
Azobenzene	< 1	17 (69 %R)	16 (66 %R) (4 RPD)	10/12/2021	ug/L	40 - 140	20	8270D
Carbazole	< 1	18 (72 %R)	18 (71 %R) (2 RPD)	10/12/2021	ug/L	40 - 140	20	8270D
Dimethylphthalate	< 1	17 (67 %R)	16 (65 %R) (4 RPD)	10/12/2021	ug/L	40 - 140	20	8270D
Diethylphthalate	< 5	17 (69 %R)	17 (68 %R) (2 RPD)	10/12/2021	ug/L	40 - 140	20	8270D
Di-n-butylphthalate	< 5	18 (73 %R)	18 (73 %R) (0 RPD)	10/12/2021	ug/L	40 - 140	20	8270D
Butylbenzylphthalate	< 5	17 (70 %R)	17 (68 %R) (3 RPD)	10/12/2021	ug/L	40 - 140	20	8270D
bis(2-Ethylhexyl)phthalate	< 5	18 (71 %R)	17 (68 %R) (4 RPD)	10/12/2021	ug/L	40 - 140	20	8270D
Di-n-octylphthalate	< 5	16 (64 %R)	16 (62 %R) (2 RPD)	10/12/2021	ug/L	40 - 140	20	8270D
Dibenzofuran	< 1	16 (65 %R)	15 (61 %R) (7 RPD)	10/12/2021	ug/L	40 - 140	20	8270D
Naphthalene	< 0.1	15 (61 %R)	13 (51 %R) (16 RPD)	10/12/2021	ug/L	40 - 140	20	8270D
2-Methylnaphthalene	< 0.1	16 (65 %R)	14 (57 %R) (14 RPD)	10/12/2021	ug/L	40 - 140	20	8270D
1-Methylnaphthalene	< 0.1	17 (67 %R)	15 (58 %R) (13 RPD)	10/12/2021	ug/L	40 - 140	20	8270D
Acenaphthylene	< 0.1	17 (66 %R)	15 (61 %R) (8 RPD)	10/12/2021	ug/L	40 - 140	20	8270D
Acenaphthene	< 0.1	16 (66 %R)	16 (65 %R) (1 RPD)	10/12/2021	ug/L	40 - 140	20	8270D
Fluorene	< 0.1	17 (67 %R)	16 (63 %R) (6 RPD)	10/12/2021	ug/L	40 - 140	20	8270D
Phenanthrene	< 0.1	17 (69 %R)	17 (67 %R) (3 RPD)	10/12/2021	ug/L	40 - 140	20	8270D
Anthracene	< 0.1	17 (70 %R)	17 (68 %R) (3 RPD)	10/12/2021	ug/L	40 - 140	20	8270D
Fluoranthene	< 0.1	18 (71 %R)	18 (70 %R) (2 RPD)	10/12/2021	ug/L	40 - 140	20	8270D
Pyrene	< 0.1	17 (68 %R)	16 (65 %R) (5 RPD)	10/12/2021	ug/L	40 - 140	20	8270D
Benzo[a]anthracene	< 0.1	17 (67 %R)	16 (65 %R) (4 RPD)	10/12/2021	ug/L	40 - 140	20	8270D
Chrysene	< 0.1	18 (71 %R)	17 (69 %R) (3 RPD)	10/12/2021	ug/L	40 - 140	20	8270D
Benzo[b]fluoranthene	< 0.1	18 (70 %R)	17 (67 %R) (5 RPD)	10/12/2021	ug/L	40 - 140	20	8270D
Benzo[k]fluoranthene	< 0.1	18 (70 %R)	17 (70 %R) (1 RPD)	10/12/2021	ug/L	40 - 140	20	8270D
Benzo[a]pyrene	< 0.1	17 (68 %R)	16 (66 %R) (3 RPD)	10/12/2021	ug/L	40 - 140	20	8270D
Indeno[1,2,3-cd]pyrene	< 0.1	16 (66 %R)	16 (63 %R) (5 RPD)	10/12/2021	ug/L	40 - 140	20	8270D
Dibenz[a,h]anthracene	< 0.1	17 (68 %R)	17 (66 %R) (3 RPD)	10/12/2021	ug/L	40 - 140	20	8270D
Benzo[g,h,i]perylene	< 0.1	16 (64 %R)	15 (61 %R) (4 RPD)	10/12/2021	ug/L	40 - 140	20	8270D
n-Decane	< 5	12 (47 %R)	* 9.3 (37 %R) (23 RPD) !	10/12/2021	ug/L	40 - 140	20	8270D
n-Octadecane	< 5	18 (71 %R)	17 (70 %R) (3 RPD)	10/12/2021	ug/L	40 - 140	20	8270D
2-Fluorophenol (surr)	34 %R	33 %R	27 %R	10/12/2021	% Rec	15 - 110		8270D
Phenol-d6 (surr)	24 %R	24 %R	20 %R	10/12/2021	% Rec	15 - 110		8270D
2,4,6-Tribromophenol (surr)	68 %R	74 %R	69 %R	10/12/2021	% Rec	15 - 110		8270D
Nitrobenzene-D5 (surr)	66 %R	64 %R	53 %R	10/12/2021	% Rec	30 - 130		8270D
2-Fluorobiphenyl (surr)	65 %R	62 %R	53 %R	10/12/2021	% Rec	30 - 130		8270D
p-Terphenyl-D14 (surr)	69 %R	70 %R	66 %R	10/12/2021	% Rec	30 - 130		8270D

*! Flagged analyte recoveries deviated from the QA/QC limits. Data that impacts sample results are noted on the sample report.

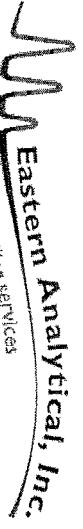
Chain-of-Custody Record

For

233428

Sample ID	Sampling Date/Time *If Composite, Indicate Both Start & Finish Date/Time	Matrix (see below)	Grab/*Composite	Analyses Requested														# of Containers	NOTES MeOH Vial #										
				VOCs - EPA 8260C	SVOCs (EPA 8270D)																								
MMW-35R_20211011	10/11/21 1033	GW	G																								1		
MMW-39_20211011	10/11/21 1140	GW	G	X																								2	
TB-GW-01_20211011	10/11/21 1145	GW	G	X																								2	

Project Manager: T. White
 Company: Sanborn, Head & Associates, Inc.
 Address: 20 Foundry Street
 City: Concord State: NH Zip: 03301
 Phone: 603-229-1900
 Fax: 603-229-1919
 E-Mail: twwhite@sanbornhead.com
 Site Name: Dalton | Groundwater
 Project #: 1003.20
 State: NH
 Regulatory Program: NPDES, RGP POTW Stormwater or GWP, Oil Fund, Brownfield or Other:
 Quote #: PO#:



Professional Laboratory & Drilling Services

25 Chenell Drive | Concord, NH 03301 | Tel: 603.228.0525 | 1.800.287.0525 | Fax: 603.228.4591 | E-Mail: customerservice@ealabs.com | www.ealabs.com

Date Needed: Standard TAT Temp. 21 °C Ice? Yes No
 QA/QC Reporting Level A B C Prelims: Yes No
 Reporting Options: Fax or PDF
 Electronic Options: No Fax E-Mail PDF Equis
 Presumptive Certainty: _____
 Sampler(s): Paula Pryor
 Relinquished By: [Signature] Date: 10/11/21 Time: 1145 Received By: [Signature]
 Relinquished By: _____ Date: _____ Time: _____ Received By: _____
 Relinquished By: _____ Date: _____ Time: _____ Received By: _____

Metals: Lists Below Samples Field Filtered:
 A: _____
 B: _____
 Notes: (i.e., Special Detection Limits, Billing Info, If Different)
 Trip blank(s) prepared by EAL.
 Bill GSL.
 *Hold final report until EQUIS EDD ready.
 Site History: _____
 Suspected Contamination: _____
 Field Readings: _____

Appendix K.7

April 2022 Analytical Laboratory Reports

Tim White
Sanborn, Head & Associates, Inc. (NH)
20 Foundry Street
Concord, NH 03301



Laboratory Report for:

Eastern Analytical, Inc. ID: 242026
Client Identification: Dalton | Surface Water | 1003.22
Date Received: 4/26/2022

Enclosed are the analytical results per the Chain of Custody for sample(s) in the referenced project. All analyses were performed in accordance with our QA/QC Program, NELAP and other applicable state requirements. All quality control criteria was within acceptance criteria unless noted on the report pages. Results are for the exclusive use of the client named on this report and will not be released to a third party without consent.

The following information is contained within this report: Sample Conditions summary, Analytical Results/Data, Quality Control data (if requested) and copies of the Chain of Custody. This report may not be reproduced except in full, without the written approval of the laboratory.

The following standard abbreviations and conventions apply to all EAI reports:

- < : "less than" followed by the reporting limit
- > : "greater than" followed by the reporting limit
- %R : % Recovery

Certifications:

Eastern Analytical, Inc. maintains certification in the following states: Connecticut (PH-0492), Maine (NH005), Massachusetts (M-NH005), New Hampshire/NELAP (1012), Rhode Island (269), Vermont (VT1012), New York (12072), West Virginia (9910C) and Alabama (41620). Please refer to our website at www.easternanalytical.com for a copy of our certificates and accredited parameters.

References:

- EPA 600/4-79-020, 1983
- Standard Methods for Examination of Water and Wastewater, 20th, 21st, 22nd & 23rd edition or noted revision year.
- Test Methods for Evaluating Solid Waste SW 846 3rd Edition including updates IVA and IVB
- Hach Water Analysis Handbook, 4th edition, 1992

If you have any questions regarding the results contained within, please feel free to contact customer service. Unless otherwise requested, we will dispose of the sample(s) 6 weeks from the sample receipt date.

We appreciate this opportunity to be of service and look forward to your continued patronage.

Sincerely,



Lorraine Olashaw, Lab Director

5.6.22

Date



SAMPLE CONDITIONS PAGE

EAI ID#: 242026

Client: Sanborn, Head & Associates, Inc. (NH)

Client Designation: Dalton | Surface Water | 1003.22

Temperature upon receipt (°C): 3.2

Received on ice or cold packs (Yes/No): Y

Acceptable temperature range (°C): 0-6

Lab ID	Sample ID	Date Received	Date/Time Sampled	Sample Matrix	% Dry Weight	Exceptions/Comments (other than thermal preservation)
242026.01	SG-1_20220425	4/26/22	4/25/22 15:25	aqueous		Adheres to Sample Acceptance Policy
242026.02	SG-2_20220425	4/26/22	4/25/22 17:00	aqueous		Adheres to Sample Acceptance Policy
242026.03	SG-3_20220425	4/26/22	4/25/22 17:25	aqueous		Adheres to Sample Acceptance Policy
242026.04	SG-4_20220425	4/26/22	4/25/22 15:55	aqueous		Adheres to Sample Acceptance Policy
242026.05	SG-5_20220425	4/26/22	4/25/22 16:30	aqueous		Adheres to Sample Acceptance Policy
242026.06	SG-6_20220425	4/26/22	4/25/22 15:05	aqueous		Adheres to Sample Acceptance Policy
242026.07	AB-1_20220425	4/26/22	4/25/22 14:40	aqueous		Adheres to Sample Acceptance Policy
242026.08	SWDUP-1_20220425	4/26/22	4/25/22 17:25	aqueous		Adheres to Sample Acceptance Policy
242026.09	TB-SW-01_20220425	4/26/22	4/25/22 17:30	aqueous		Adheres to Sample Acceptance Policy
242026.1	TB-LL-SW-01_20220425	4/26/22	4/25/22 17:30	aqueous		Adheres to Sample Acceptance Policy

All results contained in this report relate only to the above listed samples.

Unless otherwise noted:

- Hold times, preservation, container types, and sample conditions adhered to EPA Protocol.
- Solid samples are reported on a dry weight basis, unless otherwise noted. pH/Corrosivity, Flashpoint, Ignitability, Paint Filter, Conductivity and Specific Gravity are always reported on an "as received" basis.
- Analysis of pH, Total Residual Chlorine, Dissolved Oxygen and Sulfite were performed at the laboratory outside of the recommended 15 minute hold time.
- Samples collected by Eastern Analytical, Inc. (EAI) were collected in accordance with approved EPA procedures.



LABORATORY REPORT

EAI ID#: **242026**

Client: **Sanborn, Head & Associates, Inc. (NH)**
 Client Designation: **Dalton | Surface Water | 1003.22**

Sample ID:	SG-1_20220425	SG-2_20220425	SG-3_20220425	SG-4_20220425
Lab Sample ID:	242026.01	242026.02	242026.03	242026.04
Matrix:	aqueous	aqueous	aqueous	aqueous
Date Sampled:	4/25/22	4/25/22	4/25/22	4/25/22
Date Received:	4/26/22	4/26/22	4/26/22	4/26/22
Units:	ug/L	ug/L	ug/L	ug/L
Date of Analysis:	4/30/22	4/30/22	4/30/22	4/30/22
Analyst:	SG	SG	SG	SG
Method:	8260C	8260C	8260C	8260C
Dilution Factor:	1	1	1	1
Dichlorodifluoromethane	< 2	< 2	< 2	< 2
Chloromethane	< 2	< 2	< 2	< 2
Vinyl chloride	< 1	< 1	< 1	< 1
Bromomethane	< 2	< 2	< 2	< 2
Chloroethane	< 2	< 2	< 2	< 2
Trichlorofluoromethane	< 2	< 2	< 2	< 2
Diethyl Ether	< 2	< 2	< 2	< 2
Acetone	< 10	< 10	< 10	< 10
1,1-Dichloroethene	< 0.5	< 0.5	< 0.5	< 0.5
tert-Butyl Alcohol (TBA)	< 30	< 30	< 30	< 30
Methylene chloride	< 1	< 1	< 1	< 1
Carbon disulfide	< 2	< 2	< 2	< 2
Methyl-t-butyl ether(MTBE)	< 1	< 1	< 1	< 1
Ethyl-t-butyl ether(ETBE)	< 2	< 2	< 2	< 2
Isopropyl ether(DIPE)	< 2	< 2	< 2	< 2
tert-amyl methyl ether(TAME)	< 2	< 2	< 2	< 2
trans-1,2-Dichloroethene	< 1	< 1	< 1	< 1
1,1-Dichloroethane	< 1	< 1	< 1	< 1
2,2-Dichloropropane	< 1	< 1	< 1	< 1
cis-1,2-Dichloroethene	< 1	< 1	< 1	< 1
2-Butanone(MEK)	< 10	< 10	< 10	< 10
Bromochloromethane	< 1	< 1	< 1	< 1
Tetrahydrofuran(THF)	< 10	< 10	< 10	< 10
Chloroform	< 1	< 1	< 1	< 1
1,1,1-Trichloroethane	< 1	< 1	< 1	< 1
Carbon tetrachloride	< 1	< 1	< 1	< 1
1,1-Dichloropropene	< 1	< 1	< 1	< 1
Benzene	< 1	< 1	< 1	< 1
1,2-Dichloroethane	< 1	< 1	< 1	< 1
Trichloroethene	< 1	< 1	< 1	< 1
1,2-Dichloropropane	< 1	< 1	< 1	< 1
Dibromomethane	< 1	< 1	< 1	< 1
Bromodichloromethane	< 0.5	< 0.5	< 0.5	< 0.5
1,4-Dioxane	< 50	< 50	< 50	< 50
4-Methyl-2-pentanone(MIBK)	< 10	< 10	< 10	< 10
cis-1,3-Dichloropropene	< 0.5	< 0.5	< 0.5	< 0.5
Toluene	< 1	< 1	< 1	< 1
trans-1,3-Dichloropropene	< 0.5	< 0.5	< 0.5	< 0.5
1,1,2-Trichloroethane	< 1	< 1	< 1	< 1
2-Hexanone	< 10	< 10	< 10	< 10
Tetrachloroethene	< 1	< 1	< 1	< 1
1,3-Dichloropropane	< 1	< 1	< 1	< 1
Dibromochloromethane	< 1	< 1	< 1	< 1
1,2-Dibromoethane(EDB)	< 0.5	< 0.5	< 0.5	< 0.5
Chlorobenzene	< 1	< 1	< 1	< 1
1,1,1,2-Tetrachloroethane	< 1	< 1	< 1	< 1



LABORATORY REPORT

EAI ID#: **242026**

Client: **Sanborn, Head & Associates, Inc. (NH)**
 Client Designation: **Dalton | Surface Water | 1003.22**

Sample ID:	SG-1_20220425	SG-2_20220425	SG-3_20220425	SG-4_20220425
Lab Sample ID:	242026.01	242026.02	242026.03	242026.04
Matrix:	aqueous	aqueous	aqueous	aqueous
Date Sampled:	4/25/22	4/25/22	4/25/22	4/25/22
Date Received:	4/26/22	4/26/22	4/26/22	4/26/22
Units:	ug/L	ug/L	ug/L	ug/L
Date of Analysis:	4/30/22	4/30/22	4/30/22	4/30/22
Analyst:	SG	SG	SG	SG
Method:	8260C	8260C	8260C	8260C
Dilution Factor:	1	1	1	1
Ethylbenzene	< 1	< 1	< 1	< 1
mp-Xylene	< 1	< 1	< 1	< 1
o-Xylene	< 1	< 1	< 1	< 1
Styrene	< 1	< 1	< 1	< 1
Bromoform	< 2	< 2	< 2	< 2
IsoPropylbenzene	< 1	< 1	< 1	< 1
Bromobenzene	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	< 1	< 1	< 1	< 1
1,2,3-Trichloropropane	< 0.5	< 0.5	< 0.5	< 0.5
n-Propylbenzene	< 1	< 1	< 1	< 1
2-Chlorotoluene	< 1	< 1	< 1	< 1
4-Chlorotoluene	< 1	< 1	< 1	< 1
1,3,5-Trimethylbenzene	< 1	< 1	< 1	< 1
tert-Butylbenzene	< 1	< 1	< 1	< 1
1,2,4-Trimethylbenzene	< 1	< 1	< 1	< 1
sec-Butylbenzene	< 1	< 1	< 1	< 1
1,3-Dichlorobenzene	< 1	< 1	< 1	< 1
p-Isopropyltoluene	< 1	< 1	< 1	< 1
1,4-Dichlorobenzene	< 1	< 1	< 1	< 1
1,2-Dichlorobenzene	< 1	< 1	< 1	< 1
n-Butylbenzene	< 1	< 1	< 1	< 1
1,2-Dibromo-3-chloropropane	< 2	< 2	< 2	< 2
1,3,5-Trichlorobenzene	< 1	< 1	< 1	< 1
1,2,4-Trichlorobenzene	< 1	< 1	< 1	< 1
Hexachlorobutadiene	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	< 2	< 2	< 2	< 2
1,2,3-Trichlorobenzene	< 0.5	< 0.5	< 0.5	< 0.5
4-Bromofluorobenzene (surr)	107 %R	107 %R	106 %R	108 %R
1,2-Dichlorobenzene-d4 (surr)	102 %R	102 %R	102 %R	102 %R
Toluene-d8 (surr)	93 %R	93 %R	93 %R	92 %R
1,2-Dichloroethane-d4 (surr)	126 %R	125 %R	124 %R	129 %R

Bromomethane exhibited recovery below acceptance limits in the Quality Control sample(s). The analyte(s) were not detected in the sample(s).



LABORATORY REPORT

EAI ID#: **242026**

Client: **Sanborn, Head & Associates, Inc. (NH)**
 Client Designation: **Dalton | Surface Water | 1003.22**

Sample ID:	SG-5_20220425	SG-6_20220425	AB-1_20220425	SWDUP-1_20220425
Lab Sample ID:	242026.05	242026.06	242026.07	242026.08
Matrix:	aqueous	aqueous	aqueous	aqueous
Date Sampled:	4/25/22	4/25/22	4/25/22	4/25/22
Date Received:	4/26/22	4/26/22	4/26/22	4/26/22
Units:	ug/L	ug/L	ug/L	ug/L
Date of Analysis:	4/30/22	4/30/22	4/30/22	4/30/22
Analyst:	SG	SG	SG	SG
Method:	8260C	8260C	8260C	8260C
Dilution Factor:	1	1	1	1
Dichlorodifluoromethane	< 2	< 2	< 2	< 2
Chloromethane	< 2	< 2	< 2	< 2
Vinyl chloride	< 1	< 1	< 1	< 1
Bromomethane	< 2	< 2	< 2	< 2
Chloroethane	< 2	< 2	< 2	< 2
Trichlorofluoromethane	< 2	< 2	< 2	< 2
Diethyl Ether	< 2	< 2	< 2	< 2
Acetone	< 10	< 10	< 10	< 10
1,1-Dichloroethene	< 0.5	< 0.5	< 0.5	< 0.5
tert-Butyl Alcohol (TBA)	< 30	< 30	< 30	< 30
Methylene chloride	< 1	< 1	< 1	< 1
Carbon disulfide	< 2	< 2	< 2	< 2
Methyl-t-butyl ether(MTBE)	< 1	< 1	< 1	< 1
Ethyl-t-butyl ether(ETBE)	< 2	< 2	< 2	< 2
Isopropyl ether(DIPE)	< 2	< 2	< 2	< 2
tert-amyl methyl ether(TAME)	< 2	< 2	< 2	< 2
trans-1,2-Dichloroethene	< 1	< 1	< 1	< 1
1,1-Dichloroethane	< 1	< 1	< 1	< 1
2,2-Dichloropropane	< 1	< 1	< 1	< 1
cis-1,2-Dichloroethene	< 1	< 1	< 1	< 1
2-Butanone(MEK)	< 10	< 10	< 10	< 10
Bromochloromethane	< 1	< 1	< 1	< 1
Tetrahydrofuran(THF)	< 10	< 10	< 10	< 10
Chloroform	< 1	< 1	< 1	< 1
1,1,1-Trichloroethane	< 1	< 1	< 1	< 1
Carbon tetrachloride	< 1	< 1	< 1	< 1
1,1-Dichloropropene	< 1	< 1	< 1	< 1
Benzene	< 1	< 1	< 1	< 1
1,2-Dichloroethane	< 1	< 1	< 1	< 1
Trichloroethene	< 1	< 1	< 1	< 1
1,2-Dichloropropane	< 1	< 1	< 1	< 1
Dibromomethane	< 1	< 1	< 1	< 1
Bromodichloromethane	< 0.5	< 0.5	< 0.5	< 0.5
1,4-Dioxane	< 50	< 50	< 50	< 50
4-Methyl-2-pentanone(MIBK)	< 10	< 10	< 10	< 10
cis-1,3-Dichloropropene	< 0.5	< 0.5	< 0.5	< 0.5
Toluene	< 1	< 1	< 1	< 1
trans-1,3-Dichloropropene	< 0.5	< 0.5	< 0.5	< 0.5
1,1,2-Trichloroethane	< 1	< 1	< 1	< 1
2-Hexanone	< 10	< 10	< 10	< 10
Tetrachloroethene	< 1	< 1	< 1	< 1
1,3-Dichloropropane	< 1	< 1	< 1	< 1
Dibromochloromethane	< 1	< 1	< 1	< 1
1,2-Dibromoethane(EDB)	< 0.5	< 0.5	< 0.5	< 0.5
Chlorobenzene	< 1	< 1	< 1	< 1
1,1,1,2-Tetrachloroethane	< 1	< 1	< 1	< 1



LABORATORY REPORT

EAI ID#: **242026**

Client: **Sanborn, Head & Associates, Inc. (NH)**
 Client Designation: **Dalton | Surface Water | 1003.22**

Sample ID:	SG-5_20220425	SG-6_20220425	AB-1_20220425	SWDUP-1_20220425
Lab Sample ID:	242026.05	242026.06	242026.07	242026.08
Matrix:	aqueous	aqueous	aqueous	aqueous
Date Sampled:	4/25/22	4/25/22	4/25/22	4/25/22
Date Received:	4/26/22	4/26/22	4/26/22	4/26/22
Units:	ug/L	ug/L	ug/L	ug/L
Date of Analysis:	4/30/22	4/30/22	4/30/22	4/30/22
Analyst:	SG	SG	SG	SG
Method:	8260C	8260C	8260C	8260C
Dilution Factor:	1	1	1	1
Ethylbenzene	< 1	< 1	< 1	< 1
mp-Xylene	< 1	< 1	< 1	< 1
o-Xylene	< 1	< 1	< 1	< 1
Styrene	< 1	< 1	< 1	< 1
Bromoform	< 2	< 2	< 2	< 2
IsoPropylbenzene	< 1	< 1	< 1	< 1
Bromobenzene	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	< 1	< 1	< 1	< 1
1,2,3-Trichloropropane	< 0.5	< 0.5	< 0.5	< 0.5
n-Propylbenzene	< 1	< 1	< 1	< 1
2-Chlorotoluene	< 1	< 1	< 1	< 1
4-Chlorotoluene	< 1	< 1	< 1	< 1
1,3,5-Trimethylbenzene	< 1	< 1	< 1	< 1
tert-Butylbenzene	< 1	< 1	< 1	< 1
1,2,4-Trimethylbenzene	< 1	< 1	< 1	< 1
sec-Butylbenzene	< 1	< 1	< 1	< 1
1,3-Dichlorobenzene	< 1	< 1	< 1	< 1
p-Isopropyltoluene	< 1	< 1	< 1	< 1
1,4-Dichlorobenzene	< 1	< 1	< 1	< 1
1,2-Dichlorobenzene	< 1	< 1	< 1	< 1
n-Butylbenzene	< 1	< 1	< 1	< 1
1,2-Dibromo-3-chloropropane	< 2	< 2	< 2	< 2
1,3,5-Trichlorobenzene	< 1	< 1	< 1	< 1
1,2,4-Trichlorobenzene	< 1	< 1	< 1	< 1
Hexachlorobutadiene	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	< 2	< 2	< 2	< 2
1,2,3-Trichlorobenzene	< 0.5	< 0.5	< 0.5	< 0.5
4-Bromofluorobenzene (surr)	107 %R	107 %R	107 %R	108 %R
1,2-Dichlorobenzene-d4 (surr)	102 %R	102 %R	101 %R	102 %R
Toluene-d8 (surr)	94 %R	94 %R	93 %R	93 %R
1,2-Dichloroethane-d4 (surr)	125 %R	128 %R	129 %R	129 %R

Bromomethane exhibited recovery below acceptance limits in the Quality Control sample(s). The analyte(s) were not detected in the sample(s).



LABORATORY REPORT

EAI ID#: 242026

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Dalton | Surface Water | 1003.22**

Sample ID: TB-SW-01_20220425

Lab Sample ID: 242026.09
Matrix: aqueous
Date Sampled: 4/25/22
Date Received: 4/26/22
Units: ug/L
Date of Analysis: 4/30/22
Analyst: SG
Method: 8260C
Dilution Factor: 1

Dichlorodifluoromethane	< 2
Chloromethane	< 2
Vinyl chloride	< 1
Bromomethane	< 2
Chloroethane	< 2
Trichlorofluoromethane	< 2
Diethyl Ether	< 2
Acetone	< 10
1,1-Dichloroethene	< 0.5
tert-Butyl Alcohol (TBA)	< 30
Methylene chloride	< 1
Carbon disulfide	< 2
Methyl-t-butyl ether(MTBE)	< 1
Ethyl-t-butyl ether(ETBE)	< 2
Isopropyl ether(DIPE)	< 2
tert-amyl methyl ether(TAME)	< 2
trans-1,2-Dichloroethene	< 1
1,1-Dichloroethane	< 1
2,2-Dichloropropane	< 1
cis-1,2-Dichloroethene	< 1
2-Butanone(MEK)	< 10
Bromochloromethane	< 1
Tetrahydrofuran(THF)	< 10
Chloroform	< 1
1,1,1-Trichloroethane	< 1
Carbon tetrachloride	< 1
1,1-Dichloropropene	< 1
Benzene	< 1
1,2-Dichloroethane	< 1
Trichloroethene	< 1
1,2-Dichloropropane	< 1
Dibromomethane	< 1
Bromodichloromethane	< 0.5
1,4-Dioxane	< 50
4-Methyl-2-pentanone(MIBK)	< 10
cis-1,3-Dichloropropene	< 0.5
Toluene	< 1
trans-1,3-Dichloropropene	< 0.5
1,1,2-Trichloroethane	< 1
2-Hexanone	< 10
Tetrachloroethene	< 1
1,3-Dichloropropane	< 1
Dibromochloromethane	< 1
1,2-Dibromoethane(EDB)	< 0.5
Chlorobenzene	< 1
1,1,1,2-Tetrachloroethane	< 1



LABORATORY REPORT

EAI ID#: 242026

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Dalton | Surface Water | 1003.22**

Sample ID: TB-SW-01_20220425

Lab Sample ID: 242026.09
Matrix: aqueous
Date Sampled: 4/25/22
Date Received: 4/26/22
Units: ug/L
Date of Analysis: 4/30/22
Analyst: SG
Method: 8260C
Dilution Factor: 1

Ethylbenzene	< 1
mp-Xylene	< 1
o-Xylene	< 1
Styrene	< 1
Bromoform	< 2
IsoPropylbenzene	< 1
Bromobenzene	< 1
1,1,2,2-Tetrachloroethane	< 1
1,2,3-Trichloropropane	< 0.5
n-Propylbenzene	< 1
2-Chlorotoluene	< 1
4-Chlorotoluene	< 1
1,3,5-Trimethylbenzene	< 1
tert-Butylbenzene	< 1
1,2,4-Trimethylbenzene	< 1
sec-Butylbenzene	< 1
1,3-Dichlorobenzene	< 1
p-Isopropyltoluene	< 1
1,4-Dichlorobenzene	< 1
1,2-Dichlorobenzene	< 1
n-Butylbenzene	< 1
1,2-Dibromo-3-chloropropane	< 2
1,3,5-Trichlorobenzene	< 1
1,2,4-Trichlorobenzene	< 1
Hexachlorobutadiene	< 0.5
Naphthalene	< 2
1,2,3-Trichlorobenzene	< 0.5
4-Bromofluorobenzene (surr)	107 %R
1,2-Dichlorobenzene-d4 (surr)	102 %R
Toluene-d8 (surr)	93 %R
1,2-Dichloroethane-d4 (surr)	120 %R

Bromomethane exhibited recovery below acceptance limits in the Quality Control sample(s). The analyte(s) were not detected in the sample(s).



QC REPORT

EAI ID#: 242026

Client: **Sanborn, Head & Associates, Inc. (NH)**

Batch ID: 637868-30707/A042922V82602

Client Designation: **Dalton | Surface Water | 1003.22**

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
Dichlorodifluoromethane	< 2	15 (73 %R)	14 (72 %R) (2 RPD)	4/29/2022	ug/L	40 - 160	20	8260C
Chloromethane	< 2	14 (70 %R)	14 (70 %R) (0 RPD)	4/29/2022	ug/L	40 - 160	20	8260C
Vinyl chloride	< 1	19 (94 %R)	19 (95 %R) (1 RPD)	4/29/2022	ug/L	70 - 130	20	8260C
Bromomethane	< 2	8.4 (42 %R)	11 (53 %R) (22 RPD) !	4/29/2022	ug/L	40 - 160	20	8260C
Chloroethane	< 2	16 (80 %R)	16 (81 %R) (1 RPD)	4/29/2022	ug/L	70 - 130	20	8260C
Trichlorofluoromethane	< 2	18 (89 %R)	18 (89 %R) (0 RPD)	4/29/2022	ug/L	70 - 130	20	8260C
Diethyl Ether	< 2	16 (79 %R)	17 (83 %R) (4 RPD)	4/29/2022	ug/L	70 - 130	20	8260C
Acetone	< 10	23 (113 %R)	23 (117 %R) (4 RPD)	4/29/2022	ug/L	40 - 160	20	8260C
1,1-Dichloroethene	< 0.5	18 (92 %R)	18 (92 %R) (0 RPD)	4/29/2022	ug/L	70 - 130	20	8260C
tert-Butyl Alcohol (TBA)	< 30	* 130 (131 %R)	* 130 (134 %R) (2 RPD)	4/29/2022	ug/L	70 - 130	20	8260C
Methylene chloride	< 1	19 (94 %R)	19 (95 %R) (1 RPD)	4/29/2022	ug/L	70 - 130	20	8260C
Carbon disulfide	< 2	15 (77 %R)	16 (78 %R) (2 RPD)	4/29/2022	ug/L	70 - 130	20	8260C
Methyl-t-butyl ether(MTBE)	< 1	21 (106 %R)	22 (109 %R) (3 RPD)	4/29/2022	ug/L	70 - 130	20	8260C
Ethyl-t-butyl ether(ETBE)	< 2	20 (102 %R)	21 (104 %R) (2 RPD)	4/29/2022	ug/L	70 - 130	20	8260C
Isopropyl ether(DIPE)	< 2	18 (89 %R)	18 (89 %R) (1 RPD)	4/29/2022	ug/L	70 - 130	20	8260C
tert-amyl methyl ether(TAME)	< 2	21 (104 %R)	22 (108 %R) (3 RPD)	4/29/2022	ug/L	70 - 130	20	8260C
trans-1,2-Dichloroethene	< 1	19 (93 %R)	19 (94 %R) (1 RPD)	4/29/2022	ug/L	70 - 130	20	8260C
1,1-Dichloroethane	< 1	19 (96 %R)	19 (96 %R) (0 RPD)	4/29/2022	ug/L	70 - 130	20	8260C
2,2-Dichloropropane	< 1	18 (90 %R)	18 (90 %R) (1 RPD)	4/29/2022	ug/L	70 - 130	20	8260C
cis-1,2-Dichloroethene	< 1	20 (99 %R)	20 (99 %R) (1 RPD)	4/29/2022	ug/L	70 - 130	20	8260C
2-Butanone(MEK)	< 10	18 (91 %R)	19 (96 %R) (5 RPD)	4/29/2022	ug/L	40 - 160	20	8260C
Bromochloromethane	< 1	21 (103 %R)	21 (106 %R) (3 RPD)	4/29/2022	ug/L	70 - 130	20	8260C
Tetrahydrofuran(THF)	< 10	18 (88 %R)	18 (91 %R) (3 RPD)	4/29/2022	ug/L	70 - 130	20	8260C
Chloroform	< 1	21 (104 %R)	21 (105 %R) (0 RPD)	4/29/2022	ug/L	70 - 130	20	8260C
1,1,1-Trichloroethane	< 1	22 (110 %R)	22 (111 %R) (0 RPD)	4/29/2022	ug/L	70 - 130	20	8260C
Carbon tetrachloride	< 1	21 (106 %R)	21 (105 %R) (0 RPD)	4/29/2022	ug/L	70 - 130	20	8260C
1,1-Dichloropropene	< 1	18 (90 %R)	18 (91 %R) (1 RPD)	4/29/2022	ug/L	70 - 130	20	8260C
Benzene	< 1	19 (93 %R)	19 (93 %R) (0 RPD)	4/29/2022	ug/L	70 - 130	20	8260C
1,2-Dichloroethane	< 1	23 (117 %R)	24 (119 %R) (2 RPD)	4/29/2022	ug/L	70 - 130	20	8260C
Trichloroethene	< 1	18 (90 %R)	18 (90 %R) (0 RPD)	4/29/2022	ug/L	70 - 130	20	8260C
1,2-Dichloropropane	< 1	18 (91 %R)	18 (92 %R) (1 RPD)	4/29/2022	ug/L	70 - 130	20	8260C
Dibromomethane	< 1	21 (105 %R)	22 (108 %R) (2 RPD)	4/29/2022	ug/L	70 - 130	20	8260C
Bromodichloromethane	< 0.5	23 (115 %R)	23 (117 %R) (2 RPD)	4/29/2022	ug/L	70 - 130	20	8260C
1,4-Dioxane	< 50	< 50 (116 %R)	< 50 (122 %R) (5 RPD)	4/29/2022	ug/L	40 - 160	20	8260C
4-Methyl-2-pentanone(MIBK)	< 10	18 (88 %R)	18 (92 %R) (5 RPD)	4/29/2022	ug/L	40 - 160	20	8260C
cis-1,3-Dichloropropene	< 0.5	20 (102 %R)	21 (104 %R) (2 RPD)	4/29/2022	ug/L	70 - 130	20	8260C
Toluene	< 1	17 (86 %R)	17 (86 %R) (0 RPD)	4/29/2022	ug/L	70 - 130	20	8260C
trans-1,3-Dichloropropene	< 0.5	20 (102 %R)	21 (104 %R) (2 RPD)	4/29/2022	ug/L	70 - 130	20	8260C
1,1,2-Trichloroethane	< 1	18 (89 %R)	18 (92 %R) (2 RPD)	4/29/2022	ug/L	70 - 130	20	8260C
2-Hexanone	< 10	17 (86 %R)	18 (89 %R) (3 RPD)	4/29/2022	ug/L	40 - 160	20	8260C
Tetrachloroethene	< 1	17 (86 %R)	17 (86 %R) (0 RPD)	4/29/2022	ug/L	70 - 130	20	8260C
1,3-Dichloropropane	< 1	19 (93 %R)	19 (94 %R) (1 RPD)	4/29/2022	ug/L	70 - 130	20	8260C
Dibromochloromethane	< 1	21 (104 %R)	21 (106 %R) (2 RPD)	4/29/2022	ug/L	70 - 130	20	8260C
1,2-Dibromoethane(EDB)	< 0.5	20 (98 %R)	20 (101 %R) (2 RPD)	4/29/2022	ug/L	70 - 130	20	8260C
Chlorobenzene	< 1	18 (91 %R)	18 (91 %R) (0 RPD)	4/29/2022	ug/L	70 - 130	20	8260C
1,1,1,2-Tetrachloroethane	< 1	20 (102 %R)	21 (103 %R) (1 RPD)	4/29/2022	ug/L	70 - 130	20	8260C



QC REPORT

EAI ID#: 242026

Client: Sanborn, Head & Associates, Inc. (NH)

Batch ID: 637868-30707/A042922V82602

Client Designation: Dalton | Surface Water | 1003.22

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
Ethylbenzene	< 1	18 (91 %R)	18 (91 %R) (0 RPD)	4/29/2022	ug/L	70 - 130	20	8260C
mp-Xylene	< 1	37 (92 %R)	37 (91 %R) (0 RPD)	4/29/2022	ug/L	70 - 130	20	8260C
o-Xylene	< 1	20 (99 %R)	20 (99 %R) (0 RPD)	4/29/2022	ug/L	70 - 130	20	8260C
Styrene	< 1	19 (96 %R)	19 (96 %R) (0 RPD)	4/29/2022	ug/L	70 - 130	20	8260C
Bromoform	< 2	23 (114 %R)	23 (117 %R) (3 RPD)	4/29/2022	ug/L	70 - 130	20	8260C
IsoPropylbenzene	< 1	19 (94 %R)	19 (94 %R) (0 RPD)	4/29/2022	ug/L	70 - 130	20	8260C
Bromobenzene	< 1	18 (92 %R)	19 (94 %R) (2 RPD)	4/29/2022	ug/L	70 - 130	20	8260C
1,1,2,2-Tetrachloroethane	< 1	18 (88 %R)	18 (90 %R) (2 RPD)	4/29/2022	ug/L	70 - 130	20	8260C
1,2,3-Trichloropropane	< 0.5	19 (93 %R)	19 (95 %R) (2 RPD)	4/29/2022	ug/L	70 - 130	20	8260C
n-Propylbenzene	< 1	17 (86 %R)	17 (86 %R) (1 RPD)	4/29/2022	ug/L	70 - 130	20	8260C
2-Chlorotoluene	< 1	18 (91 %R)	18 (90 %R) (1 RPD)	4/29/2022	ug/L	70 - 130	20	8260C
4-Chlorotoluene	< 1	19 (93 %R)	19 (93 %R) (0 RPD)	4/29/2022	ug/L	70 - 130	20	8260C
1,3,5-Trimethylbenzene	< 1	19 (93 %R)	18 (92 %R) (1 RPD)	4/29/2022	ug/L	70 - 130	20	8260C
tert-Butylbenzene	< 1	18 (90 %R)	18 (90 %R) (0 RPD)	4/29/2022	ug/L	70 - 130	20	8260C
1,2,4-Trimethylbenzene	< 1	19 (96 %R)	19 (96 %R) (0 RPD)	4/29/2022	ug/L	70 - 130	20	8260C
sec-Butylbenzene	< 1	18 (88 %R)	17 (87 %R) (1 RPD)	4/29/2022	ug/L	70 - 130	20	8260C
1,3-Dichlorobenzene	< 1	18 (92 %R)	19 (94 %R) (1 RPD)	4/29/2022	ug/L	70 - 130	20	8260C
p-Isopropyltoluene	< 1	18 (92 %R)	18 (92 %R) (0 RPD)	4/29/2022	ug/L	70 - 130	20	8260C
1,4-Dichlorobenzene	< 1	18 (91 %R)	18 (92 %R) (1 RPD)	4/29/2022	ug/L	70 - 130	20	8260C
1,2-Dichlorobenzene	< 1	19 (93 %R)	19 (94 %R) (2 RPD)	4/29/2022	ug/L	70 - 130	20	8260C
n-Butylbenzene	< 1	17 (85 %R)	17 (85 %R) (0 RPD)	4/29/2022	ug/L	70 - 130	20	8260C
1,2-Dibromo-3-chloropropane	< 2	22 (112 %R)	23 (116 %R) (3 RPD)	4/29/2022	ug/L	70 - 130	20	8260C
1,3,5-Trichlorobenzene	< 1	18 (92 %R)	18 (92 %R) (0 RPD)	4/29/2022	ug/L	70 - 130	20	8260C
1,2,4-Trichlorobenzene	< 1	19 (96 %R)	19 (97 %R) (1 RPD)	4/29/2022	ug/L	70 - 130	20	8260C
Hexachlorobutadiene	< 0.5	17 (85 %R)	17 (85 %R) (0 RPD)	4/29/2022	ug/L	70 - 130	20	8260C
Naphthalene	< 2	21 (104 %R)	22 (108 %R) (3 RPD)	4/29/2022	ug/L	70 - 130	20	8260C
1,2,3-Trichlorobenzene	< 0.5	20 (101 %R)	21 (104 %R) (3 RPD)	4/29/2022	ug/L	70 - 130	20	8260C
4-Bromofluorobenzene (surr)	106 %R	107 %R	107 %R	4/29/2022	% Rec	70 - 130	20	8260C
1,2-Dichlorobenzene-d4 (surr)	103 %R	101 %R	102 %R	4/29/2022	% Rec	70 - 130	20	8260C
Toluene-d8 (surr)	93 %R	94 %R	94 %R	4/29/2022	% Rec	70 - 130	20	8260C

*// Flagged analyte recoveries deviated from the QA/QC limits. Data that impacts sample results are noted on the sample report.



LABORATORY REPORT

EAI ID#: **242026**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Dalton | Surface Water | 1003.22**

Sample ID:	SG-1_20220425	SG-2_20220425	SG-3_20220425	SG-4_20220425
Lab Sample ID:	242026.01	242026.02	242026.03	242026.04
Matrix:	aqueous	aqueous	aqueous	aqueous
Date Sampled:	4/25/22	4/25/22	4/25/22	4/25/22
Date Received:	4/26/22	4/26/22	4/26/22	4/26/22
Units:	ug/L	ug/L	ug/L	ug/L
Date of Analysis:	4/28/22	4/28/22	4/28/22	4/28/22
Analyst:	MLW	MLW	MLW	MLW
Method:	8260B SIM	8260B SIM	8260B SIM	8260B SIM
Dilution Factor:	1	1	1	1
1,4-Dioxane	< 0.25	< 0.25	< 0.25	< 0.25
4-Bromofluorobenzene (surr)	106 %R	102 %R	100 %R	102 %R
Toluene-d8 (surr)	103 %R	100 %R	98 %R	100 %R



LABORATORY REPORT

EAI ID#: **242026**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Dalton | Surface Water | 1003.22**

Sample ID:	SG-5_20220425	SG-6_20220425	AB-1_20220425	SWDUP-1_20220425
Lab Sample ID:	242026.05	242026.06	242026.07	242026.08
Matrix:	aqueous	aqueous	aqueous	aqueous
Date Sampled:	4/25/22	4/25/22	4/25/22	4/25/22
Date Received:	4/26/22	4/26/22	4/26/22	4/26/22
Units:	ug/L	ug/L	ug/L	ug/L
Date of Analysis:	4/28/22	4/28/22	4/28/22	4/28/22
Analyst:	MLW	MLW	MLW	MLW
Method:	8260B SIM	8260B SIM	8260B SIM	8260B SIM
Dilution Factor:	1	1	1	1
1,4-Dioxane	< 0.25	< 0.25	< 0.25	< 0.25
4-Bromofluorobenzene (surr)	100 %R	101 %R	103 %R	104 %R
Toluene-d8 (surr)	98 %R	98 %R	100 %R	102 %R



LABORATORY REPORT

EAI ID#: 242026

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Dalton | Surface Water | 1003.22**

Sample ID: TB-LL-SW-01_20220425

Lab Sample ID: 242026.1
Matrix: aqueous
Date Sampled: 4/25/22
Date Received: 4/26/22
Units: ug/L
Date of Analysis: 4/28/22
Analyst: MLW
Method: 8260B SIM
Dilution Factor: 1
1,4-Dioxane < 0.25
4-Bromofluorobenzene (surr) 99 %R
Toluene-d8 (surr) 98 %R



QC REPORT

EAI ID#: **242026**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Batch ID: 637867-35233/A042722DIOX2

Client Designation: **Dalton | Surface Water | 1003.22**

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
1,4-Dioxane	< 0.2	4.4 (89 %R)	4.4 (88 %R) (1 RPD)	4/28/2022	ug/L	70 - 130	20	8260B
4-Bromofluorobenzene (surr)	99 %R	101 %R	101 %R	4/28/2022	% Rec	70 - 130	50	8260B
Toluene-d8 (surr)	98 %R	99 %R	99 %R	4/28/2022	% Rec	70 - 130	50	8260B

*/I Flagged analyte recoveries deviated from the QA/QC limits. Data that impacts sample results are noted on the sample report.



QC REPORT

EAI ID#: **242026**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Batch ID: 637867-35958/A042822DIOX1

Client Designation: **Dalton | Surface Water | 1003.22**

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
1,4-Dioxane	< 0.2	4.5 (91 %R)	4.3 (87 %R) (4 RPD)	4/28/2022	ug/L	70 - 130	20	8260B
4-Bromofluorobenzene (surr)	103 %R	106 %R	103 %R	4/28/2022	% Rec	70 - 130	50	8260B
Toluene-d8 (surr)	101 %R	103 %R	102 %R	4/28/2022	% Rec	70 - 130	50	8260B

*! Flagged analyte recoveries deviated from the QA/QC limits. Data that impacts sample results are noted on the sample report.



LABORATORY REPORT

EAI ID#: **242026**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Dalton | Surface Water | 1003.22**

Sample ID:	SG-1_20220425	SG-2_20220425	SG-3_20220425	SG-4_20220425
Lab Sample ID:	242026.01	242026.02	242026.03	242026.04
Matrix:	aqueous	aqueous	aqueous	aqueous
Date Sampled:	4/25/22	4/25/22	4/25/22	4/25/22
Date Received:	4/26/22	4/26/22	4/26/22	4/26/22
Units:	ug/L	ug/L	ug/L	ug/L
Date of Extraction/Prep:	4/28/22	4/28/22	4/28/22	4/28/22
Date of Analysis:	4/28/22	4/28/22	4/28/22	4/28/22
Analyst:	WOD	WOD	WOD	WOD
Method:	8011/504	8011/504	8011/504	8011/504
Dilution Factor:	1	1	1	1
1,2-Dibromoethane(EDB)	< 0.02	< 0.02	< 0.02	< 0.02
Dibromochloropropane (DBCP)	< 0.02	< 0.02	< 0.02	< 0.02
1,1,1,2-Tetrachloroethane (surr)	93 %R	96 %R	98 %R	100 %R



LABORATORY REPORT

EAI ID#: **242026**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Dalton | Surface Water | 1003.22**

Sample ID:	SG-5_20220425	SG-6_20220425	AB-1_20220425	SWDUP-1_20220425
Lab Sample ID:	242026.05	242026.06	242026.07	242026.08
Matrix:	aqueous	aqueous	aqueous	aqueous
Date Sampled:	4/25/22	4/25/22	4/25/22	4/25/22
Date Received:	4/26/22	4/26/22	4/26/22	4/26/22
Units:	ug/L	ug/L	ug/L	ug/L
Date of Extraction/Prep:	4/28/22	4/28/22	4/28/22	4/28/22
Date of Analysis:	4/28/22	4/28/22	4/28/22	4/28/22
Analyst:	WOD	WOD	WOD	WOD
Method:	8011/504	8011/504	8011/504	8011/504
Dilution Factor:	1	1	1	1
1,2-Dibromoethane(EDB)	< 0.02	< 0.02	< 0.02	< 0.02
Dibromochloropropane (DBCP)	< 0.02	< 0.02	< 0.02	< 0.02
1,1,1,2-Tetrachloroethane (surr)	102 %R	97 %R	101 %R	97 %R



QC REPORT

EAI ID#: **242026**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Batch ID: 637867-30699/A042822E5041

Client Designation: **Dalton | Surface Water | 1003.22**

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
1,2-Dibromoethane(EDB)	< 0.02	0.10 (103 %R)	0.11 (106 %R) (2 RPD)	4/28/2022	ug/L	70 - 130	20	8011/504
Dibromochloropropane (DBCP)	< 0.02	0.098 (98 %R)	0.099 (99 %R) (2 RPD)	4/28/2022	ug/L	70 - 130	20	8011/504
1,1,1,2-Tetrachloroethane (surr)	98 %R	93 %R	97 %R	4/28/2022	% Rec	65 - 135	20	8011/504

*! Flagged analyte recoveries deviated from the QA/QC limits. Data that impacts sample results are noted on the sample report.



LABORATORY REPORT

EAI ID#: 242026

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Dalton | Surface Water | 1003.22**

Sample ID:	SG-1_20220425	SG -2_20220425	SG -3_20220425	SG -4_20220425					
Lab Sample ID:	242026.01	242026.02	242026.03	242026.04					
Matrix:	aqueous	aqueous	aqueous	aqueous					
Date Sampled:	4/25/22	4/25/22	4/25/22	4/25/22					
Date Received:	4/26/22	4/26/22	4/26/22	4/26/22					
					Units	Date	Time	Method	Analyst
Sulfate	3.1	2.5	16	5.6	mg/L	04/28/22	6:48	300.0	LLG
Chloride	< 1	< 1	< 1	< 1	mg/L	04/27/22	9:01	4500CIE-11	LLG
Nitrate-N	< 0.5	< 0.5	1.3	< 0.5	mg/L	04/27/22	9:01	353.2	LLG
Alkalinity Total (CaCO3)	7.4	3.6	34	13	mg/L	04/29/22	9:49	2320B-11	MKB
Cyanide Total	< 0.02	< 0.02	< 0.02	< 0.02	mg/L	04/29/22	11:16	ASTM D7511-09	KD
TKN	< 0.5	< 0.5	< 0.5	0.51	mg/L	04/29/22	13:21	4500N _{org} C/NH3D	SEL
COD	< 10	24	< 10	10	mg/L	04/26/22	11:50	H8000	JCS
Dissolved Organic Carbon	3.5	10	3.1	5.6	mg/L	04/28/22	12:18	5310C-00	LO

Sample ID:	SG-5_20220425	SG -6_20220425	AB -1_20220425	SWDUP -1_20220425					
Lab Sample ID:	242026.05	242026.06	242026.07	242026.08					
Matrix:	aqueous	aqueous	aqueous	aqueous					
Date Sampled:	4/25/22	4/25/22	4/25/22	4/25/22					
Date Received:	4/26/22	4/26/22	4/26/22	4/26/22					
					Units	Date	Time	Method	Analyst
Sulfate	3.2	3.1	9	16	mg/L	04/28/22	9:32	300.0	LLG
Chloride	< 1	< 1	< 1	< 1	mg/L	04/27/22	9:20	4500CIE-11	LLG
Nitrate-N	< 0.5	< 0.5	< 0.5	1.1	mg/L	04/27/22	9:20	353.2	LLG
Alkalinity Total (CaCO3)	3.4	4.4	12	33	mg/L	04/29/22	9:49	2320B-11	MKB
Cyanide Total	< 0.02	< 0.02	< 0.02	< 0.02	mg/L	04/29/22	11:30	ASTM D7511-09	KD
TKN	0.83	< 0.5	< 0.5	< 0.5	mg/L	04/29/22	13:32	4500N _{org} C/NH3D	SEL
COD	24	< 10	< 10	< 10	mg/L	04/26/22	11:50	H8000	JCS
Dissolved Organic Carbon	9.2	3.8	4.0	3.1	mg/L	04/28/22	13:26	5310C-00	LO



QC REPORT

EAI ID#: 242026

Client: Sanborn, Head & Associates, Inc. (NH)

Client Designation: Dalton | Surface Water | 1003.22

Parameter Name	Blank	LCS	LCSD	Units	Date of Analysis	Limits	RPD	Method
Sulfate	< 1	20 (101 %R)	20 (100 %R) (1 RPD)	mg/L	4/28/22	90 - 110	20	300.0
Chloride	< 1	25 (99 %R)	24 (96 %R) (3 RPD)	mg/L	4/27/22	90 - 110	20	4500CIE-11
Nitrate-N	< 0.5	4.8 (96 %R)	4.8 (96 %R) (0 RPD)	mg/L	4/27/22	90 - 110	20	353.2
Alkalinity Total (CaCO3)	< 1	10 (104 %R)	10 (104 %R) (0 RPD)	mg/L	4/29/22	85 - 115	20	2320B-11
Cyanide Total	< 0.02	0.088 (88 %R)	0.088 (88 %R) (0 RPD)	mg/L	4/29/22	84 - 116	20	ASTM D7511-09
TKN	< 0.5	10 (102 %R)	10 (103 %R) (1 RPD)	mg/L	4/29/22	90 - 111	20	4500N _{org} C/NH3D-11
COD	< 10	100 (105 %R)	100 (105 %R) (0 RPD)	mg/L	4/26/22	85 - 115	20	H8000
Dissolved Organic Carbon	< 0.5	10 (105 %R)	11 (105 %R) (1 RPD)	mg/L	4/28/22	90 - 110	20	5310C-00

*! Flagged analyte recoveries deviated from the QA/QC limits. Unless noted, flagged data does not impact the sample data.



LABORATORY REPORT

EAI ID#: **242026**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Dalton | Surface Water | 1003.22**

Sample ID:	SG-1_20220425	SG -2_20220425	SG -3_20220425	SG -4_20220425					
Lab Sample ID:	242026.01	242026.02	242026.03	242026.04					
Matrix:	aqueous	aqueous	aqueous	aqueous					
Date Sampled:	4/25/22	4/25/22	4/25/22	4/25/22	Analytical		Date of		
Date Received:	4/26/22	4/26/22	4/26/22	4/26/22	Matrix	Units	Analysis	Method	Analyst
Aluminum	0.065	0.19	< 0.05	< 0.05	AqDis	mg/L	4/28/22	200.8	DS
Antimony	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	4/28/22	200.8	DS
Arsenic	< 0.0005	< 0.0005	< 0.0005	< 0.0005	AqDis	mg/L	4/28/22	200.8	DS
Barium	0.0091	0.0085	0.011	0.0042	AqDis	mg/L	4/28/22	200.8	DS
Beryllium	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	4/28/22	200.8	DS
Cadmium	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	4/28/22	200.8	DS
Chromium	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	4/28/22	200.8	DS
Copper	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	4/28/22	200.8	DS
Iron	< 0.05	0.11	< 0.05	< 0.05	AqDis	mg/L	4/28/22	200.8	DS
Lead	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	4/28/22	200.8	DS
Magnesium	0.43	0.38	1.4	0.71	AqDis	mg/L	4/28/22	200.8	DS
Manganese	< 0.005	< 0.005	0.0059	0.016	AqDis	mg/L	4/28/22	200.8	DS
Nickel	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	4/28/22	200.8	DS
Potassium	0.35	0.20	1.2	0.96	AqDis	mg/L	4/28/22	200.8	DS
Selenium	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	4/28/22	200.8	DS
Silver	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	4/28/22	200.8	DS
Thallium	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	4/28/22	200.8	DS
Zinc	< 0.005	< 0.005	< 0.005	< 0.005	AqDis	mg/L	4/28/22	200.8	DS
Total Hardness (as CaCO3)	8.1	7.0	51	16	AqTot	mg/L	4/28/22	2340B	DS



LABORATORY REPORT

EAI ID#: **242026**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Dalton | Surface Water | 1003.22**

Sample ID:	SG-5_20220425	SG -6_20220425	AB -1_20220425	SWDUP -1_20220425					
Lab Sample ID:	242026.05	242026.06	242026.07	242026.08					
Matrix:	aqueous	aqueous	aqueous	aqueous					
Date Sampled:	4/25/22	4/25/22	4/25/22	4/25/22	Analytical		Date of		
Date Received:	4/26/22	4/26/22	4/26/22	4/26/22	Matrix	Units	Analysis	Method	Analyst
Aluminum	0.092	0.075	< 0.05	< 0.05	AqDis	mg/L	4/28/22	200.8	DS
Antimony	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	4/28/22	200.8	DS
Arsenic	< 0.0005	< 0.0005	< 0.0005	< 0.0005	AqDis	mg/L	4/28/22	200.8	DS
Barium	0.0066	0.0067	0.0056	0.011	AqDis	mg/L	4/28/22	200.8	DS
Beryllium	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	4/28/22	200.8	DS
Cadmium	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	4/28/22	200.8	DS
Chromium	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	4/28/22	200.8	DS
Copper	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	4/28/22	200.8	DS
Iron	0.053	< 0.05	< 0.05	< 0.05	AqDis	mg/L	4/28/22	200.8	DS
Lead	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	4/28/22	200.8	DS
Magnesium	0.34	0.32	0.96	1.4	AqDis	mg/L	4/28/22	200.8	DS
Manganese	< 0.005	< 0.005	0.013	< 0.005	AqDis	mg/L	4/28/22	200.8	DS
Nickel	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	4/28/22	200.8	DS
Potassium	0.26	0.18	0.61	1.2	AqDis	mg/L	4/28/22	200.8	DS
Selenium	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	4/28/22	200.8	DS
Silver	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	4/28/22	200.8	DS
Thallium	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	4/28/22	200.8	DS
Zinc	< 0.005	< 0.005	< 0.005	< 0.005	AqDis	mg/L	4/28/22	200.8	DS
Total Hardness (as CaCO3)	7.0	6.3	16	50	AqTot	mg/L	4/28/22	2340B	DS



QC REPORT

EAI ID#: 242026

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Dalton | Surface Water | 1003.22**

Parameter Name	Blank	LCS	LCSD	Units	Date of Analysis	Limits	RPD	Method
Aluminum	< 0.05	10 (100 %R)	NA	mg/L	4/28/22	85 - 115	20	200.8
Antimony	< 0.001	0.22 (111 %R)	NA	mg/L	4/28/22	85 - 115	20	200.8
Arsenic	< 0.0005	0.20 (102 %R)	NA	mg/L	4/28/22	85 - 115	20	200.8
Barium	< 0.001	0.21 (106 %R)	NA	mg/L	4/28/22	85 - 115	20	200.8
Beryllium	< 0.001	0.22 (108 %R)	NA	mg/L	4/28/22	85 - 115	20	200.8
Calcium (Aqtot)	< 0.05	10 (100 %R)	NA	mg/L	4/28/22	85 - 115	20	200.8
Cadmium	< 0.001	0.21 (103 %R)	NA	mg/L	4/28/22	85 - 115	20	200.8
Chromium	< 0.001	0.20 (101 %R)	NA	mg/L	4/28/22	85 - 115	20	200.8
Copper	< 0.001	0.20 (99 %R)	NA	mg/L	4/28/22	85 - 115	20	200.8
Iron	< 0.05	10 (100 %R)	NA	mg/L	4/28/22	85 - 115	20	200.8
Lead	< 0.001	0.20 (102 %R)	NA	mg/L	4/28/22	85 - 115	20	200.8
Magnesium (Aqtot)	< 0.05	10 (102 %R)	NA	mg/L	4/28/22	85 - 115	20	200.8
Magnesium	< 0.05	10 (100 %R)	NA	mg/L	4/28/22	85 - 115	20	200.8
Manganese	< 0.005	0.20 (102 %R)	NA	mg/L	4/28/22	85 - 115	20	200.8
Nickel	< 0.001	0.20 (101 %R)	NA	mg/L	4/28/22	85 - 115	20	200.8
Potassium	< 0.05	10 (100 %R)	NA	mg/L	4/28/22	85 - 115	20	200.8
Selenium	< 0.001	0.20 (100 %R)	NA	mg/L	4/28/22	85 - 115	20	200.8
Silver	< 0.001	0.010 (101 %R)	NA	mg/L	4/28/22	85 - 115	20	200.8
Thallium	< 0.001	0.20 (102 %R)	NA	mg/L	4/28/22	85 - 115	20	200.8
Zinc	< 0.005	0.20 (102 %R)	NA	mg/L	4/28/22	85 - 115	20	200.8

*! Flagged analyte recoveries deviated from the QA/QC limits. Unless noted, flagged data does not impact the sample data.

Tim White
Sanborn, Head & Associates, Inc. (NH)
20 Foundry Street
Concord, NH 03301



Laboratory Report for:

Eastern Analytical, Inc. ID: 242095
Client Identification: Dalton | Groundwater / 1003.22
Date Received: 4/27/2022

Enclosed are the analytical results per the Chain of Custody for sample(s) in the referenced project. All analyses were performed in accordance with our QA/QC Program, NELAP and other applicable state requirements. All quality control criteria was within acceptance criteria unless noted on the report pages. Results are for the exclusive use of the client named on this report and will not be released to a third party without consent.

The following information is contained within this report: Sample Conditions summary, Analytical Results/Data, Quality Control data (if requested) and copies of the Chain of Custody. This report may not be reproduced except in full, without the written approval of the laboratory.

The following standard abbreviations and conventions apply to all EAI reports:

- < : "less than" followed by the reporting limit
- > : "greater than" followed by the reporting limit
- %R : % Recovery

Certifications:

Eastern Analytical, Inc. maintains certification in the following states: Connecticut (PH-0492), Maine (NH005), Massachusetts (M-NH005), New Hampshire/NELAP (1012), Rhode Island (269), Vermont (VT1012), New York (12072), West Virginia (9910C) and Alabama (41620). Please refer to our website at www.easternanalytical.com for a copy of our certificates and accredited parameters.


References:

- EPA 600/4-79-020, 1983
- Standard Methods for Examination of Water and Wastewater, 20th, 21st, 22nd & 23rd edition or noted revision year.
- Test Methods for Evaluating Solid Waste SW 846 3rd Edition including updates IVA and IVB
- Hach Water Analysis Handbook, 4th edition, 1992

If you have any questions regarding the results contained within, please feel free to contact customer service. Unless otherwise requested, we will dispose of the sample(s) 6 weeks from the sample receipt date.

We appreciate this opportunity to be of service and look forward to your continued patronage.

Sincerely,


Lorraine Olashaw, Lab Director

5.6.22
Date



SAMPLE CONDITIONS PAGE

EAI ID#: 242095

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Dalton | Groundwater / 1003.22**

Temperature upon receipt (°C): 3.3

Acceptable temperature range (°C): 0-6

Received on ice or cold packs (Yes/No): Y

Lab ID	Sample ID	Date Received	Date/Time Sampled	Sample Matrix	% Dry Weight	Exceptions/Comments (other than thermal preservation)
242095.01	MW-2_20220426	4/27/22	4/26/22 14:02	aqueous		Adheres to Sample Acceptance Policy
242095.02	MW-5_20220426	4/27/22	4/26/22 16:05	aqueous		Adheres to Sample Acceptance Policy
242095.03	MW-10_20220426	4/27/22	4/26/22 15:25	aqueous		Adheres to Sample Acceptance Policy
242095.04	MW-14_20220426	4/27/22	4/26/22 15:50	aqueous		Adheres to Sample Acceptance Policy
242095.05	MW-16_20220426	4/27/22	4/26/22 13:15	aqueous		Adheres to Sample Acceptance Policy
242095.06	MW-23_20220426	4/27/22	4/26/22 14:55	aqueous		Adheres to Sample Acceptance Policy
242095.07	MW-24_20220426	4/27/22	4/26/22 14:35	aqueous		Adheres to Sample Acceptance Policy
242095.08	TB-GW-02_20220426	4/27/22	4/26/22 16:30	aqueous		Adheres to Sample Acceptance Policy
242095.09	TB-LL-GW-02_20220426	4/27/22	4/26/22 16:30	aqueous		Adheres to Sample Acceptance Policy

All results contained in this report relate only to the above listed samples.

Unless otherwise noted:

- Hold times, preservation, container types, and sample conditions adhered to EPA Protocol.
- Solid samples are reported on a dry weight basis, unless otherwise noted. pH/Corrosivity, Flashpoint, Ignitability, Paint Filter, Conductivity and Specific Gravity are always reported on an "as received" basis.
- Analysis of pH, Total Residual Chlorine, Dissolved Oxygen and Sulfite were performed at the laboratory outside of the recommended 15 minute hold time.
- Samples collected by Eastern Analytical, Inc. (EAI) were collected in accordance with approved EPA procedures.



LABORATORY REPORT

EAI ID#: 242095

Client: Sanborn, Head & Associates, Inc. (NH)

Client Designation: Dalton | Groundwater / 1003.22

Sample ID:	MW-2_20220426	MW-5_20220426	MW-10_20220426	MW-14_20220426
Lab Sample ID:	242095.01	242095.02	242095.03	242095.04
Matrix:	aqueous	aqueous	aqueous	aqueous
Date Sampled:	4/26/22	4/26/22	4/26/22	4/26/22
Date Received:	4/27/22	4/27/22	4/27/22	4/27/22
Units:	ug/L	ug/L	ug/L	ug/L
Date of Analysis:	4/30/22	4/30/22	4/30/22	4/30/22
Analyst:	JAK	JAK	JAK	JAK
Method:	8260C	8260C	8260C	8260C
Dilution Factor:	1	1	1	1
Dichlorodifluoromethane	< 2	< 2	< 2	< 2
Chloromethane	< 2	< 2	< 2	< 2
Vinyl chloride	< 1	< 1	< 1	< 1
Bromomethane	< 2	< 2	< 2	< 2
Chloroethane	< 2	< 2	< 2	< 2
Trichlorofluoromethane	< 2	< 2	< 2	< 2
Diethyl Ether	< 2	< 2	< 2	< 2
Acetone	< 10	< 10	< 10	< 10
1,1-Dichloroethene	< 0.5	< 0.5	< 0.5	< 0.5
tert-Butyl Alcohol (TBA)	< 30	< 30	< 30	< 30
Methylene chloride	< 1	< 1	< 1	< 1
Carbon disulfide	< 2	< 2	< 2	< 2
Methyl-t-butyl ether(MTBE)	< 1	< 1	< 1	< 1
Ethyl-t-butyl ether(ETBE)	< 2	< 2	< 2	< 2
Isopropyl ether(DIPE)	< 2	< 2	< 2	< 2
tert-amyl methyl ether(TAME)	< 2	< 2	< 2	< 2
trans-1,2-Dichloroethene	< 1	< 1	< 1	< 1
1,1-Dichloroethane	< 1	< 1	< 1	< 1
2,2-Dichloropropane	< 1	< 1	< 1	< 1
cis-1,2-Dichloroethene	< 1	< 1	< 1	< 1
2-Butanone(MEK)	< 10	< 10	< 10	< 10
Bromochloromethane	< 1	< 1	< 1	< 1
Tetrahydrofuran(THF)	< 10	< 10	< 10	< 10
Chloroform	< 1	< 1	< 1	< 1
1,1,1-Trichloroethane	< 1	< 1	< 1	< 1
Carbon tetrachloride	< 1	< 1	< 1	< 1
1,1-Dichloropropene	< 1	< 1	< 1	< 1
Benzene	< 1	< 1	< 1	< 1
1,2-Dichloroethane	< 1	< 1	< 1	< 1
Trichloroethene	< 1	< 1	< 1	< 1
1,2-Dichloropropane	< 1	< 1	< 1	< 1
Dibromomethane	< 1	< 1	< 1	< 1
Bromodichloromethane	< 0.5	< 0.5	< 0.5	< 0.5
1,4-Dioxane	< 50	< 50	< 50	< 50
4-Methyl-2-pentanone(MIBK)	< 10	< 10	< 10	< 10
cis-1,3-Dichloropropene	< 0.5	< 0.5	< 0.5	< 0.5
Toluene	< 1	< 1	< 1	< 1
trans-1,3-Dichloropropene	< 0.5	< 0.5	< 0.5	< 0.5
1,1,2-Trichloroethane	< 1	< 1	< 1	< 1
2-Hexanone	< 10	< 10	< 10	< 10
Tetrachloroethene	< 1	< 1	< 1	< 1
1,3-Dichloropropane	< 1	< 1	< 1	< 1
Dibromochloromethane	< 1	< 1	< 1	< 1
1,2-Dibromoethane(EDB)	< 0.5	< 0.5	< 0.5	< 0.5
Chlorobenzene	< 1	< 1	< 1	< 1
1,1,1,2-Tetrachloroethane	< 1	< 1	< 1	< 1



LABORATORY REPORT

EAI ID#: **242095**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Dalton | Groundwater / 1003.22**

Sample ID:	MW-2_20220426	MW-5_20220426	MW-10_20220426	MW-14_20220426
Lab Sample ID:	242095.01	242095.02	242095.03	242095.04
Matrix:	aqueous	aqueous	aqueous	aqueous
Date Sampled:	4/26/22	4/26/22	4/26/22	4/26/22
Date Received:	4/27/22	4/27/22	4/27/22	4/27/22
Units:	ug/L	ug/L	ug/L	ug/L
Date of Analysis:	4/30/22	4/30/22	4/30/22	4/30/22
Analyst:	JAK	JAK	JAK	JAK
Method:	8260C	8260C	8260C	8260C
Dilution Factor:	1	1	1	1
Ethylbenzene	< 1	< 1	< 1	< 1
mp-Xylene	< 1	< 1	< 1	< 1
o-Xylene	< 1	< 1	< 1	< 1
Styrene	< 1	< 1	< 1	< 1
Bromoform	< 2	< 2	< 2	< 2
IsoPropylbenzene	< 1	< 1	< 1	< 1
Bromobenzene	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	< 1	< 1	< 1	< 1
1,2,3-Trichloropropane	< 0.5	< 0.5	< 0.5	< 0.5
n-Propylbenzene	< 1	< 1	< 1	< 1
2-Chlorotoluene	< 1	< 1	< 1	< 1
4-Chlorotoluene	< 1	< 1	< 1	< 1
1,3,5-Trimethylbenzene	< 1	< 1	< 1	< 1
tert-Butylbenzene	< 1	< 1	< 1	< 1
1,2,4-Trimethylbenzene	< 1	< 1	< 1	< 1
sec-Butylbenzene	< 1	< 1	< 1	< 1
1,3-Dichlorobenzene	< 1	< 1	< 1	< 1
p-Isopropyltoluene	< 1	< 1	< 1	< 1
1,4-Dichlorobenzene	< 1	< 1	< 1	< 1
1,2-Dichlorobenzene	< 1	< 1	< 1	< 1
n-Butylbenzene	< 1	< 1	< 1	< 1
1,2-Dibromo-3-chloropropane	< 2	< 2	< 2	< 2
1,3,5-Trichlorobenzene	< 1	< 1	< 1	< 1
1,2,4-Trichlorobenzene	< 1	< 1	< 1	< 1
Hexachlorobutadiene	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	< 2	< 2	< 2	< 2
1,2,3-Trichlorobenzene	< 0.5	< 0.5	< 0.5	< 0.5
4-Bromofluorobenzene (surr)	79 %R	80 %R	80 %R	80 %R
1,2-Dichlorobenzene-d4 (surr)	108 %R	109 %R	108 %R	107 %R
Toluene-d8 (surr)	98 %R	98 %R	97 %R	97 %R
1,2-Dichloroethane-d4 (surr)	113 %R	113 %R	113 %R	113 %R



LABORATORY REPORT

EAI ID#: 242095

Client: Sanborn, Head & Associates, Inc. (NH)

Client Designation: Dalton | Groundwater / 1003.22

Sample ID:	MW-16_20220426	MW-23_20220426	MW-24_20220426	TB-GW-02_20220426
Lab Sample ID:	242095.05	242095.06	242095.07	242095.08
Matrix:	aqueous	aqueous	aqueous	aqueous
Date Sampled:	4/26/22	4/26/22	4/26/22	4/26/22
Date Received:	4/27/22	4/27/22	4/27/22	4/27/22
Units:	ug/L	ug/L	ug/L	ug/L
Date of Analysis:	4/30/22	4/30/22	5/2/22	4/30/22
Analyst:	JAK	JAK	JAK	JAK
Method:	8260C	8260C	8260C	8260C
Dilution Factor:	1	1	1	1
Dichlorodifluoromethane	< 2	< 2	< 2	< 2
Chloromethane	< 2	< 2	< 2	< 2
Vinyl chloride	< 1	< 1	< 1	< 1
Bromomethane	< 2	< 2	< 2	< 2
Chloroethane	< 2	< 2	< 2	< 2
Trichlorofluoromethane	< 2	< 2	< 2	< 2
Diethyl Ether	< 2	< 2	< 2	< 2
Acetone	< 10	< 10	< 10	< 10
1,1-Dichloroethene	< 0.5	< 0.5	< 0.5	< 0.5
tert-Butyl Alcohol (TBA)	< 30	< 30	< 30	< 30
Methylene chloride	< 1	< 1	< 1	< 1
Carbon disulfide	< 2	< 2	< 2	< 2
Methyl-t-butyl ether(MTBE)	< 1	< 1	< 1	< 1
Ethyl-t-butyl ether(ETBE)	< 2	< 2	< 2	< 2
Isopropyl ether(DIPE)	< 2	< 2	< 2	< 2
tert-amyl methyl ether(TAME)	< 2	< 2	< 2	< 2
trans-1,2-Dichloroethene	< 1	< 1	< 1	< 1
1,1-Dichloroethane	< 1	< 1	< 1	< 1
2,2-Dichloropropane	< 1	< 1	< 1	< 1
cis-1,2-Dichloroethene	< 1	< 1	< 1	< 1
2-Butanone(MEK)	< 10	< 10	< 10	< 10
Bromochloromethane	< 1	< 1	< 1	< 1
Tetrahydrofuran(THF)	< 10	< 10	< 10	< 10
Chloroform	< 1	< 1	< 1	< 1
1,1,1-Trichloroethane	< 1	< 1	< 1	< 1
Carbon tetrachloride	< 1	< 1	< 1	< 1
1,1-Dichloropropene	< 1	< 1	< 1	< 1
Benzene	< 1	< 1	< 1	< 1
1,2-Dichloroethane	< 1	< 1	< 1	< 1
Trichloroethene	< 1	< 1	< 1	< 1
1,2-Dichloropropane	< 1	< 1	< 1	< 1
Dibromomethane	< 1	< 1	< 1	< 1
Bromodichloromethane	< 0.5	< 0.5	< 0.5	< 0.5
1,4-Dioxane	< 50	< 50	< 50	< 50
4-Methyl-2-pentanone(MIBK)	< 10	< 10	< 10	< 10
cis-1,3-Dichloropropene	< 0.5	< 0.5	< 0.5	< 0.5
Toluene	< 1	< 1	< 1	< 1
trans-1,3-Dichloropropene	< 0.5	< 0.5	< 0.5	< 0.5
1,1,2-Trichloroethane	< 1	< 1	< 1	< 1
2-Hexanone	< 10	< 10	< 10	< 10
Tetrachloroethene	< 1	< 1	< 1	< 1
1,3-Dichloropropane	< 1	< 1	< 1	< 1
Dibromochloromethane	< 1	< 1	< 1	< 1
1,2-Dibromoethane(EDB)	< 0.5	< 0.5	< 0.5	< 0.5
Chlorobenzene	< 1	< 1	< 1	< 1
1,1,1,2-Tetrachloroethane	< 1	< 1	< 1	< 1



LABORATORY REPORT

EAI ID#: **242095**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Dalton | Groundwater / 1003.22**

Sample ID:	MW-16_20220426	MW-23_20220426	MW-24_20220426	TB-GW-02_20220426
Lab Sample ID:	242095.05	242095.06	242095.07	242095.08
Matrix:	aqueous	aqueous	aqueous	aqueous
Date Sampled:	4/26/22	4/26/22	4/26/22	4/26/22
Date Received:	4/27/22	4/27/22	4/27/22	4/27/22
Units:	ug/L	ug/L	ug/L	ug/L
Date of Analysis:	4/30/22	4/30/22	5/2/22	4/30/22
Analyst:	JAK	JAK	JAK	JAK
Method:	8260C	8260C	8260C	8260C
Dilution Factor:	1	1	1	1
Ethylbenzene	< 1	< 1	< 1	< 1
mp-Xylene	< 1	< 1	< 1	< 1
o-Xylene	< 1	< 1	< 1	< 1
Styrene	< 1	< 1	< 1	< 1
Bromoform	< 2	< 2	< 2	< 2
IsoPropylbenzene	< 1	< 1	< 1	< 1
Bromobenzene	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	< 1	< 1	< 1	< 1
1,2,3-Trichloropropane	< 0.5	< 0.5	< 0.5	< 0.5
n-Propylbenzene	< 1	< 1	< 1	< 1
2-Chlorotoluene	< 1	< 1	< 1	< 1
4-Chlorotoluene	< 1	< 1	< 1	< 1
1,3,5-Trimethylbenzene	< 1	< 1	< 1	< 1
tert-Butylbenzene	< 1	< 1	< 1	< 1
1,2,4-Trimethylbenzene	< 1	< 1	< 1	< 1
sec-Butylbenzene	< 1	< 1	< 1	< 1
1,3-Dichlorobenzene	< 1	< 1	< 1	< 1
p-Isopropyltoluene	< 1	< 1	< 1	< 1
1,4-Dichlorobenzene	< 1	< 1	< 1	< 1
1,2-Dichlorobenzene	< 1	< 1	< 1	< 1
n-Butylbenzene	< 1	< 1	< 1	< 1
1,2-Dibromo-3-chloropropane	< 2	< 2	< 2	< 2
1,3,5-Trichlorobenzene	< 1	< 1	< 1	< 1
1,2,4-Trichlorobenzene	< 1	< 1	< 1	< 1
Hexachlorobutadiene	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	< 2	< 2	< 2	< 2
1,2,3-Trichlorobenzene	< 0.5	< 0.5	< 0.5	< 0.5
4-Bromofluorobenzene (surr)	80 %R	79 %R	80 %R	79 %R
1,2-Dichlorobenzene-d4 (surr)	108 %R	108 %R	108 %R	109 %R
Toluene-d8 (surr)	97 %R	98 %R	96 %R	97 %R
1,2-Dichloroethane-d4 (surr)	113 %R	114 %R	114 %R	114 %R



QC REPORT

EAI ID#: 242095

Client: Sanborn, Head & Associates, Inc. (NH)

Batch ID: 637868-48379/A042922V82605

Client Designation: Dalton | Groundwater / 1003.22

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
Dichlorodifluoromethane	< 2	19 (97 %R)	18 (90 %R) (8 RPD)	4/30/2022	ug/L	40 - 160	20	8260C
Chloromethane	< 2	23 (117 %R)	23 (113 %R) (4 RPD)	4/30/2022	ug/L	40 - 160	20	8260C
Vinyl chloride	< 1	26 (129 %R)	24 (120 %R) (7 RPD)	4/30/2022	ug/L	70 - 130	20	8260C
Bromomethane	< 2	21 (105 %R)	20 (98 %R) (7 RPD)	4/30/2022	ug/L	40 - 160	20	8260C
Chloroethane	< 2	23 (117 %R)	22 (110 %R) (6 RPD)	4/30/2022	ug/L	70 - 130	20	8260C
Trichlorofluoromethane	< 2	23 (115 %R)	22 (108 %R) (7 RPD)	4/30/2022	ug/L	70 - 130	20	8260C
Diethyl Ether	< 2	20 (99 %R)	19 (96 %R) (3 RPD)	4/30/2022	ug/L	70 - 130	20	8260C
Acetone	< 10	21 (103 %R)	19 (97 %R) (6 RPD)	4/30/2022	ug/L	40 - 160	20	8260C
1,1-Dichloroethene	< 0.5	22 (110 %R)	21 (104 %R) (6 RPD)	4/30/2022	ug/L	70 - 130	20	8260C
tert-Butyl Alcohol (TBA)	< 30	130 (128 %R)	120 (120 %R) (7 RPD)	4/30/2022	ug/L	70 - 130	20	8260C
Methylene chloride	< 1	22 (110 %R)	21 (107 %R) (3 RPD)	4/30/2022	ug/L	70 - 130	20	8260C
Carbon disulfide	< 2	20 (102 %R)	19 (97 %R) (5 RPD)	4/30/2022	ug/L	70 - 130	20	8260C
Methyl-t-butyl ether(MTBE)	< 1	21 (103 %R)	20 (100 %R) (3 RPD)	4/30/2022	ug/L	70 - 130	20	8260C
Ethyl-t-butyl ether(ETBE)	< 2	23 (114 %R)	22 (111 %R) (3 RPD)	4/30/2022	ug/L	70 - 130	20	8260C
Isopropyl ether(DIPE)	< 2	23 (114 %R)	22 (109 %R) (4 RPD)	4/30/2022	ug/L	70 - 130	20	8260C
tert-amyl methyl ether(TAME)	< 2	22 (110 %R)	21 (105 %R) (4 RPD)	4/30/2022	ug/L	70 - 130	20	8260C
trans-1,2-Dichloroethene	< 1	22 (108 %R)	20 (102 %R) (6 RPD)	4/30/2022	ug/L	70 - 130	20	8260C
1,1-Dichloroethane	< 1	22 (109 %R)	21 (103 %R) (5 RPD)	4/30/2022	ug/L	70 - 130	20	8260C
2,2-Dichloropropane	< 1	23 (115 %R)	22 (108 %R) (7 RPD)	4/30/2022	ug/L	70 - 130	20	8260C
cis-1,2-Dichloroethene	< 1	23 (117 %R)	22 (111 %R) (5 RPD)	4/30/2022	ug/L	70 - 130	20	8260C
2-Butanone(MEK)	< 10	21 (106 %R)	20 (99 %R) (7 RPD)	4/30/2022	ug/L	40 - 160	20	8260C
Bromochloromethane	< 1	21 (107 %R)	20 (102 %R) (4 RPD)	4/30/2022	ug/L	70 - 130	20	8260C
Tetrahydrofuran(THF)	< 10	23 (117 %R)	22 (110 %R) (6 RPD)	4/30/2022	ug/L	70 - 130	20	8260C
Chloroform	< 1	21 (107 %R)	20 (102 %R) (5 RPD)	4/30/2022	ug/L	70 - 130	20	8260C
1,1,1-Trichloroethane	< 1	22 (108 %R)	20 (102 %R) (6 RPD)	4/30/2022	ug/L	70 - 130	20	8260C
Carbon tetrachloride	< 1	21 (105 %R)	20 (99 %R) (6 RPD)	4/30/2022	ug/L	70 - 130	20	8260C
1,1-Dichloropropene	< 1	23 (114 %R)	21 (107 %R) (7 RPD)	4/30/2022	ug/L	70 - 130	20	8260C
Benzene	< 1	23 (116 %R)	22 (110 %R) (5 RPD)	4/30/2022	ug/L	70 - 130	20	8260C
1,2-Dichloroethane	< 1	22 (109 %R)	21 (105 %R) (4 RPD)	4/30/2022	ug/L	70 - 130	20	8260C
Trichloroethene	< 1	23 (114 %R)	22 (108 %R) (6 RPD)	4/30/2022	ug/L	70 - 130	20	8260C
1,2-Dichloropropane	< 1	23 (115 %R)	22 (110 %R) (4 RPD)	4/30/2022	ug/L	70 - 130	20	8260C
Dibromomethane	< 1	22 (112 %R)	21 (107 %R) (4 RPD)	4/30/2022	ug/L	70 - 130	20	8260C
Bromodichloromethane	< 0.5	22 (112 %R)	21 (107 %R) (4 RPD)	4/30/2022	ug/L	70 - 130	20	8260C
1,4-Dioxane	< 50	< 50 (129 %R)	< 50 (124 %R) (4 RPD)	4/30/2022	ug/L	40 - 160	20	8260C
4-Methyl-2-pentanone(MIBK)	< 10	20 (102 %R)	19 (95 %R) (7 RPD)	4/30/2022	ug/L	40 - 160	20	8260C
cis-1,3-Dichloropropene	< 0.5	20 (99 %R)	19 (95 %R) (4 RPD)	4/30/2022	ug/L	70 - 130	20	8260C
Toluene	< 1	24 (119 %R)	23 (113 %R) (5 RPD)	4/30/2022	ug/L	70 - 130	20	8260C
trans-1,3-Dichloropropene	< 0.5	24 (120 %R)	23 (116 %R) (3 RPD)	4/30/2022	ug/L	70 - 130	20	8260C
1,1,2-Trichloroethane	< 1	22 (112 %R)	22 (109 %R) (3 RPD)	4/30/2022	ug/L	70 - 130	20	8260C
2-Hexanone	< 10	21 (107 %R)	20 (100 %R) (6 RPD)	4/30/2022	ug/L	40 - 160	20	8260C
Tetrachloroethene	< 1	22 (112 %R)	21 (105 %R) (6 RPD)	4/30/2022	ug/L	70 - 130	20	8260C
1,3-Dichloropropane	< 1	23 (115 %R)	22 (111 %R) (3 RPD)	4/30/2022	ug/L	70 - 130	20	8260C
Dibromochloromethane	< 1	22 (108 %R)	21 (104 %R) (3 RPD)	4/30/2022	ug/L	70 - 130	20	8260C
1,2-Dibromoethane(EDB)	< 0.5	23 (117 %R)	23 (113 %R) (4 RPD)	4/30/2022	ug/L	70 - 130	20	8260C
Chlorobenzene	< 1	24 (119 %R)	23 (114 %R) (5 RPD)	4/30/2022	ug/L	70 - 130	20	8260C
1,1,1,2-Tetrachloroethane	< 1	22 (109 %R)	21 (105 %R) (4 RPD)	4/30/2022	ug/L	70 - 130	20	8260C



QC REPORT

EAI ID#: 242095

Client: Sanborn, Head & Associates, Inc. (NH)

Batch ID: 637868-48379/A042922V82605

Client Designation: Dalton | Groundwater / 1003.22

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
Ethylbenzene	< 1	25 (126 %R)	24 (119 %R) (6 RPD)	4/30/2022	ug/L	70 - 130	20	8260C
mp-Xylene	< 1	42 (106 %R)	40 (100 %R) (6 RPD)	4/30/2022	ug/L	70 - 130	20	8260C
o-Xylene	< 1	22 (109 %R)	20 (102 %R) (6 RPD)	4/30/2022	ug/L	70 - 130	20	8260C
Styrene	< 1	20 (99 %R)	18 (92 %R) (8 RPD)	4/30/2022	ug/L	70 - 130	20	8260C
Bromoform	< 2	23 (116 %R)	22 (111 %R) (4 RPD)	4/30/2022	ug/L	70 - 130	20	8260C
IsoPropylbenzene	< 1	21 (107 %R)	20 (101 %R) (6 RPD)	4/30/2022	ug/L	70 - 130	20	8260C
Bromobenzene	< 1	23 (114 %R)	22 (109 %R) (4 RPD)	4/30/2022	ug/L	70 - 130	20	8260C
1,1,2,2-Tetrachloroethane	< 1	21 (107 %R)	20 (102 %R) (5 RPD)	4/30/2022	ug/L	70 - 130	20	8260C
1,2,3-Trichloropropane	< 0.5	21 (107 %R)	20 (101 %R) (5 RPD)	4/30/2022	ug/L	70 - 130	20	8260C
n-Propylbenzene	< 1	* 26 (131 %R)	25 (123 %R) (6 RPD)	4/30/2022	ug/L	70 - 130	20	8260C
2-Chlorotoluene	< 1	25 (125 %R)	24 (119 %R) (5 RPD)	4/30/2022	ug/L	70 - 130	20	8260C
4-Chlorotoluene	< 1	25 (123 %R)	23 (117 %R) (5 RPD)	4/30/2022	ug/L	70 - 130	20	8260C
1,3,5-Trimethylbenzene	< 1	21 (106 %R)	20 (100 %R) (6 RPD)	4/30/2022	ug/L	70 - 130	20	8260C
tert-Butylbenzene	< 1	24 (120 %R)	23 (113 %R) (7 RPD)	4/30/2022	ug/L	70 - 130	20	8260C
1,2,4-Trimethylbenzene	< 1	22 (108 %R)	21 (103 %R) (5 RPD)	4/30/2022	ug/L	70 - 130	20	8260C
sec-Butylbenzene	< 1	22 (110 %R)	21 (103 %R) (6 RPD)	4/30/2022	ug/L	70 - 130	20	8260C
1,3-Dichlorobenzene	< 1	24 (121 %R)	23 (116 %R) (5 RPD)	4/30/2022	ug/L	70 - 130	20	8260C
p-Isopropyltoluene	< 1	21 (105 %R)	20 (100 %R) (6 RPD)	4/30/2022	ug/L	70 - 130	20	8260C
1,4-Dichlorobenzene	< 1	23 (117 %R)	22 (112 %R) (4 RPD)	4/30/2022	ug/L	70 - 130	20	8260C
1,2-Dichlorobenzene	< 1	22 (112 %R)	21 (107 %R) (4 RPD)	4/30/2022	ug/L	70 - 130	20	8260C
n-Butylbenzene	< 1	21 (107 %R)	20 (101 %R) (6 RPD)	4/30/2022	ug/L	70 - 130	20	8260C
1,2-Dibromo-3-chloropropane	< 2	21 (103 %R)	19 (96 %R) (7 RPD)	4/30/2022	ug/L	70 - 130	20	8260C
1,3,5-Trichlorobenzene	< 1	22 (112 %R)	21 (106 %R) (5 RPD)	4/30/2022	ug/L	70 - 130	20	8260C
1,2,4-Trichlorobenzene	< 1	21 (104 %R)	20 (100 %R) (4 RPD)	4/30/2022	ug/L	70 - 130	20	8260C
Hexachlorobutadiene	< 0.5	21 (103 %R)	19 (97 %R) (6 RPD)	4/30/2022	ug/L	70 - 130	20	8260C
Naphthalene	< 2	19 (95 %R)	18 (90 %R) (5 RPD)	4/30/2022	ug/L	70 - 130	20	8260C
1,2,3-Trichlorobenzene	< 0.5	23 (116 %R)	22 (112 %R) (4 RPD)	4/30/2022	ug/L	70 - 130	20	8260C
4-Bromofluorobenzene (surr)	81 %R	109 %R	108 %R	4/30/2022	% Rec	70 - 130	20	8260C
1,2-Dichlorobenzene-d4 (surr)	105 %R	92 %R	91 %R	4/30/2022	% Rec	70 - 130	20	8260C
Toluene-d8 (surr)	99 %R	100 %R	100 %R	4/30/2022	% Rec	70 - 130	20	8260C
1,2-Dichloroethane-d4 (surr)	106 %R	95 %R	94 %R	4/30/2022	% Rec	70 - 130	20	8260C

*! Flagged analyte recoveries deviated from the QA/QC limits. Data that impacts sample results are noted on the sample report.



QC REPORT

EAI ID#: 242095

Client: **Sanborn, Head & Associates, Inc. (NH)**

Batch ID: 637870-87986/A050222V82604

Client Designation: **Dalton | Groundwater / 1003.22**

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
Dichlorodifluoromethane	< 2	27 (133 %R)	25 (125 %R) (7 RPD)	5/2/2022	ug/L	40 - 160	20	8260C
Chloromethane	< 2	28 (142 %R)	27 (136 %R) (4 RPD)	5/2/2022	ug/L	40 - 160	20	8260C
Vinyl chloride	< 1	* 30 (149 %R)	* 28 (139 %R) (7 RPD)	5/2/2022	ug/L	70 - 130	20	8260C
Bromomethane	< 2	24 (120 %R)	22 (108 %R) (11 RPD)	5/2/2022	ug/L	40 - 160	20	8260C
Chloroethane	< 2	25 (127 %R)	24 (120 %R) (6 RPD)	5/2/2022	ug/L	70 - 130	20	8260C
Trichlorofluoromethane	< 2	25 (126 %R)	24 (118 %R) (6 RPD)	5/2/2022	ug/L	70 - 130	20	8260C
Diethyl Ether	< 2	20 (101 %R)	20 (98 %R) (3 RPD)	5/2/2022	ug/L	70 - 130	20	8260C
Acetone	< 10	20 (99 %R)	20 (99 %R) (1 RPD)	5/2/2022	ug/L	40 - 160	20	8260C
1,1-Dichloroethene	< 0.5	22 (111 %R)	21 (105 %R) (6 RPD)	5/2/2022	ug/L	70 - 130	20	8260C
tert-Butyl Alcohol (TBA)	< 30	110 (113 %R)	110 (112 %R) (1 RPD)	5/2/2022	ug/L	70 - 130	20	8260C
Methylene chloride	< 1	22 (111 %R)	21 (107 %R) (4 RPD)	5/2/2022	ug/L	70 - 130	20	8260C
Carbon disulfide	< 2	21 (105 %R)	20 (99 %R) (6 RPD)	5/2/2022	ug/L	70 - 130	20	8260C
Methyl-t-butyl ether(MTBE)	< 1	19 (97 %R)	20 (98 %R) (0 RPD)	5/2/2022	ug/L	70 - 130	20	8260C
Ethyl-t-butyl ether(ETBE)	< 2	21 (104 %R)	20 (102 %R) (3 RPD)	5/2/2022	ug/L	70 - 130	20	8260C
Isopropyl ether(DIPE)	< 2	22 (108 %R)	21 (104 %R) (4 RPD)	5/2/2022	ug/L	70 - 130	20	8260C
tert-amyl methyl ether(TAME)	< 2	20 (98 %R)	19 (95 %R) (2 RPD)	5/2/2022	ug/L	70 - 130	20	8260C
trans-1,2-Dichloroethene	< 1	22 (108 %R)	20 (102 %R) (6 RPD)	5/2/2022	ug/L	70 - 130	20	8260C
1,1-Dichloroethane	< 1	22 (109 %R)	21 (104 %R) (5 RPD)	5/2/2022	ug/L	70 - 130	20	8260C
2,2-Dichloropropane	< 1	23 (114 %R)	21 (107 %R) (7 RPD)	5/2/2022	ug/L	70 - 130	20	8260C
cis-1,2-Dichloroethene	< 1	23 (116 %R)	22 (111 %R) (5 RPD)	5/2/2022	ug/L	70 - 130	20	8260C
2-Butanone(MEK)	< 10	20 (99 %R)	20 (98 %R) (1 RPD)	5/2/2022	ug/L	40 - 160	20	8260C
Bromochloromethane	< 1	21 (106 %R)	20 (101 %R) (5 RPD)	5/2/2022	ug/L	70 - 130	20	8260C
Tetrahydrofuran(THF)	< 10	21 (104 %R)	21 (103 %R) (1 RPD)	5/2/2022	ug/L	70 - 130	20	8260C
Chloroform	< 1	22 (108 %R)	21 (103 %R) (5 RPD)	5/2/2022	ug/L	70 - 130	20	8260C
1,1,1-Trichloroethane	< 1	22 (108 %R)	20 (102 %R) (6 RPD)	5/2/2022	ug/L	70 - 130	20	8260C
Carbon tetrachloride	< 1	22 (108 %R)	20 (102 %R) (6 RPD)	5/2/2022	ug/L	70 - 130	20	8260C
1,1-Dichloropropene	< 1	22 (109 %R)	21 (103 %R) (5 RPD)	5/2/2022	ug/L	70 - 130	20	8260C
Benzene	< 1	23 (117 %R)	22 (110 %R) (5 RPD)	5/2/2022	ug/L	70 - 130	20	8260C
1,2-Dichloroethane	< 1	22 (110 %R)	21 (106 %R) (4 RPD)	5/2/2022	ug/L	70 - 130	20	8260C
Trichloroethene	< 1	22 (111 %R)	21 (105 %R) (5 RPD)	5/2/2022	ug/L	70 - 130	20	8260C
1,2-Dichloropropane	< 1	23 (113 %R)	22 (108 %R) (5 RPD)	5/2/2022	ug/L	70 - 130	20	8260C
Dibromomethane	< 1	22 (110 %R)	21 (106 %R) (3 RPD)	5/2/2022	ug/L	70 - 130	20	8260C
Bromodichloromethane	< 0.5	23 (113 %R)	22 (108 %R) (5 RPD)	5/2/2022	ug/L	70 - 130	20	8260C
1,4-Dioxane	< 50	< 50 (121 %R)	< 50 (116 %R) (4 RPD)	5/2/2022	ug/L	40 - 160	20	8260C
4-Methyl-2-pentanone(MIBK)	< 10	18 (91 %R)	18 (90 %R) (1 RPD)	5/2/2022	ug/L	40 - 160	20	8260C
cis-1,3-Dichloropropene	< 0.5	19 (97 %R)	19 (93 %R) (5 RPD)	5/2/2022	ug/L	70 - 130	20	8260C
Toluene	< 1	23 (116 %R)	22 (111 %R) (5 RPD)	5/2/2022	ug/L	70 - 130	20	8260C
trans-1,3-Dichloropropene	< 0.5	23 (115 %R)	22 (111 %R) (3 RPD)	5/2/2022	ug/L	70 - 130	20	8260C
1,1,2-Trichloroethane	< 1	22 (110 %R)	21 (107 %R) (3 RPD)	5/2/2022	ug/L	70 - 130	20	8260C
2-Hexanone	< 10	19 (95 %R)	19 (94 %R) (0 RPD)	5/2/2022	ug/L	40 - 160	20	8260C
Tetrachloroethene	< 1	22 (109 %R)	21 (103 %R) (5 RPD)	5/2/2022	ug/L	70 - 130	20	8260C
1,3-Dichloropropane	< 1	22 (111 %R)	22 (108 %R) (3 RPD)	5/2/2022	ug/L	70 - 130	20	8260C
Dibromochloromethane	< 1	21 (107 %R)	21 (103 %R) (4 RPD)	5/2/2022	ug/L	70 - 130	20	8260C
1,2-Dibromoethane(EDB)	< 0.5	22 (111 %R)	22 (109 %R) (2 RPD)	5/2/2022	ug/L	70 - 130	20	8260C
Chlorobenzene	< 1	23 (115 %R)	22 (111 %R) (4 RPD)	5/2/2022	ug/L	70 - 130	20	8260C
1,1,1,2-Tetrachloroethane	< 1	21 (107 %R)	21 (103 %R) (4 RPD)	5/2/2022	ug/L	70 - 130	20	8260C



QC REPORT

EAI ID#: 242095

Client: Sanborn, Head & Associates, Inc. (NH)

Batch ID: 637870-87986/A050222V82604

Client Designation: Dalton | Groundwater / 1003.22

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
Ethylbenzene	< 1	24 (122 %R)	23 (117 %R) (4 RPD)	5/2/2022	ug/L	70 - 130	20	8260C
mp-Xylene	< 1	41 (103 %R)	39 (98 %R) (5 RPD)	5/2/2022	ug/L	70 - 130	20	8260C
o-Xylene	< 1	21 (103 %R)	20 (98 %R) (4 RPD)	5/2/2022	ug/L	70 - 130	20	8260C
Styrene	< 1	21 (104 %R)	20 (99 %R) (4 RPD)	5/2/2022	ug/L	70 - 130	20	8260C
Bromoform	< 2	23 (115 %R)	22 (111 %R) (3 RPD)	5/2/2022	ug/L	70 - 130	20	8260C
IsoPropylbenzene	< 1	21 (103 %R)	20 (98 %R) (5 RPD)	5/2/2022	ug/L	70 - 130	20	8260C
Bromobenzene	< 1	20 (101 %R)	20 (102 %R) (0 RPD)	5/2/2022	ug/L	70 - 130	20	8260C
1,1,2,2-Tetrachloroethane	< 1	19 (94 %R)	19 (96 %R) (1 RPD)	5/2/2022	ug/L	70 - 130	20	8260C
1,2,3-Trichloropropane	< 0.5	19 (93 %R)	19 (95 %R) (2 RPD)	5/2/2022	ug/L	70 - 130	20	8260C
n-Propylbenzene	< 1	24 (118 %R)	23 (117 %R) (1 RPD)	5/2/2022	ug/L	70 - 130	20	8260C
2-Chlorotoluene	< 1	22 (110 %R)	22 (109 %R) (1 RPD)	5/2/2022	ug/L	70 - 130	20	8260C
4-Chlorotoluene	< 1	23 (113 %R)	23 (113 %R) (0 RPD)	5/2/2022	ug/L	70 - 130	20	8260C
1,3,5-Trimethylbenzene	< 1	19 (94 %R)	19 (93 %R) (1 RPD)	5/2/2022	ug/L	70 - 130	20	8260C
tert-Butylbenzene	< 1	21 (107 %R)	21 (105 %R) (1 RPD)	5/2/2022	ug/L	70 - 130	20	8260C
1,2,4-Trimethylbenzene	< 1	19 (97 %R)	19 (96 %R) (1 RPD)	5/2/2022	ug/L	70 - 130	20	8260C
sec-Butylbenzene	< 1	20 (98 %R)	19 (97 %R) (1 RPD)	5/2/2022	ug/L	70 - 130	20	8260C
1,3-Dichlorobenzene	< 1	22 (108 %R)	22 (108 %R) (0 RPD)	5/2/2022	ug/L	70 - 130	20	8260C
p-Isopropyltoluene	< 1	19 (94 %R)	19 (93 %R) (1 RPD)	5/2/2022	ug/L	70 - 130	20	8260C
1,4-Dichlorobenzene	< 1	21 (105 %R)	21 (105 %R) (0 RPD)	5/2/2022	ug/L	70 - 130	20	8260C
1,2-Dichlorobenzene	< 1	20 (100 %R)	20 (100 %R) (0 RPD)	5/2/2022	ug/L	70 - 130	20	8260C
n-Butylbenzene	< 1	19 (97 %R)	19 (95 %R) (1 RPD)	5/2/2022	ug/L	70 - 130	20	8260C
1,2-Dibromo-3-chloropropane	< 2	18 (88 %R)	18 (90 %R) (2 RPD)	5/2/2022	ug/L	70 - 130	20	8260C
1,3,5-Trichlorobenzene	< 1	19 (97 %R)	19 (96 %R) (0 RPD)	5/2/2022	ug/L	70 - 130	20	8260C
1,2,4-Trichlorobenzene	< 1	18 (89 %R)	18 (90 %R) (1 RPD)	5/2/2022	ug/L	70 - 130	20	8260C
Hexachlorobutadiene	< 0.5	18 (91 %R)	18 (89 %R) (2 RPD)	5/2/2022	ug/L	70 - 130	20	8260C
Naphthalene	< 2	16 (78 %R)	16 (81 %R) (4 RPD)	5/2/2022	ug/L	70 - 130	20	8260C
1,2,3-Trichlorobenzene	< 0.5	20 (101 %R)	20 (102 %R) (2 RPD)	5/2/2022	ug/L	70 - 130	20	8260C
4-Bromofluorobenzene (surr)	81 %R	113 %R	111 %R	5/2/2022	% Rec	70 - 130	20	8260C
1,2-Dichlorobenzene-d4 (surr)	108 %R	90 %R	91 %R	5/2/2022	% Rec	70 - 130	20	8260C
Toluene-d8 (surr)	96 %R	100 %R	100 %R	5/2/2022	% Rec	70 - 130	20	8260C
1,2-Dichloroethane-d4 (surr)	113 %R	99 %R	99 %R	5/2/2022	% Rec	70 - 130	20	8260C

*! Flagged analyte recoveries deviated from the QA/QC limits. Data that impacts sample results are noted on the sample report.



LABORATORY REPORT

EAI ID#: **242095**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Dalton | Groundwater / 1003.22**

Sample ID:	MW-2_20220426	MW-5_20220426	MW-10_20220426	MW-14_20220426
Lab Sample ID:	242095.01	242095.02	242095.03	242095.04
Matrix:	aqueous	aqueous	aqueous	aqueous
Date Sampled:	4/26/22	4/26/22	4/26/22	4/26/22
Date Received:	4/27/22	4/27/22	4/27/22	4/27/22
Units:	ug/L	ug/L	ug/L	ug/L
Date of Analysis:	4/30/22	4/30/22	4/30/22	4/30/22
Analyst:	MLW	MLW	MLW	MLW
Method:	8260B SIM	8260B SIM	8260B SIM	8260B SIM
Dilution Factor:	1	1	1	1
1,4-Dioxane	< 0.25	< 0.25	< 0.25	< 0.25
4-Bromofluorobenzene (surr)	97 %R	100 %R	99 %R	97 %R
Toluene-d8 (surr)	96 %R	98 %R	97 %R	96 %R



LABORATORY REPORT

EAI ID#: **242095**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Dalton | Groundwater / 1003.22**

Sample ID:	MW-16_20220426	MW-23_20220426	MW-24_20220426	TB-LL-GW -02_20220426
Lab Sample ID:	242095.05	242095.06	242095.07	242095.09
Matrix:	aqueous	aqueous	aqueous	aqueous
Date Sampled:	4/26/22	4/26/22	4/26/22	4/26/22
Date Received:	4/27/22	4/27/22	4/27/22	4/27/22
Units:	ug/L	ug/L	ug/L	ug/L
Date of Analysis:	4/30/22	4/30/22	4/30/22	4/30/22
Analyst:	MLW	MLW	MLW	MLW
Method:	8260B SIM	8260B SIM	8260B SIM	8260B SIM
Dilution Factor:	1	1	1	1
1,4-Dioxane	< 0.25	< 0.25	< 0.25	< 0.25
4-Bromofluorobenzene (surr)	97 %R	104 %R	96 %R	96 %R
Toluene-d8 (surr)	95 %R	102 %R	95 %R	95 %R



QC REPORT

EAI ID#: **242095**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Batch ID: 637868-47948/A042922DIOX2

Client Designation: **Dalton | Groundwater / 1003.22**

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
1,4-Dioxane	< 0.2	4.5 (90 %R)	4.4 (88 %R) (3 RPD)	4/30/2022	ug/L	70 - 130	20	8260B
4-Bromofluorobenzene (surr)	96 %R	98 %R	97 %R	4/30/2022	% Rec	70 - 130	50	8260B
Toluene-d8 (surr)	95 %R	97 %R	96 %R	4/30/2022	% Rec	70 - 130	50	8260B

*/I Flagged analyte recoveries deviated from the QA/QC limits. Data that impacts sample results are noted on the sample report.



QC REPORT

EAI ID#: 242095

Client: Sanborn, Head & Associates, Inc. (NH)

Batch ID: 637869-14288/A043022DIOX1

Client Designation: Dalton | Groundwater / 1003.22

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
1,4-Dioxane	< 0.2	4.4 (88 %R)	4.5 (89 %R) (2 RPD)	4/30/2022	ug/L	70 - 130	20	8260B
4-Bromofluorobenzene (surr)	97 %R	100 %R	97 %R	4/30/2022	% Rec	70 - 130	50	8260B
Toluene-d8 (surr)	95 %R	99 %R	97 %R	4/30/2022	% Rec	70 - 130	50	8260B

*/I Flagged analyte recoveries deviated from the QA/QC limits. Data that impacts sample results are noted on the sample report.



LABORATORY REPORT

EAI ID#: **242095**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Dalton | Groundwater / 1003.22**

Sample ID:	MW-2_20220426	MW-5_20220426	MW-14_20220426	MW-16_20220426
Lab Sample ID:	242095.01	242095.02	242095.04	242095.05
Matrix:	aqueous	aqueous	aqueous	aqueous
Date Sampled:	4/26/22	4/26/22	4/26/22	4/26/22
Date Received:	4/27/22	4/27/22	4/27/22	4/27/22
Units:	ug/L	ug/L	ug/L	ug/L
Date of Extraction/Prep:	4/28/22	4/28/22	4/28/22	4/28/22
Date of Analysis:	4/28/22	4/28/22	4/28/22	4/28/22
Analyst:	JMR	JMR	JMR	JMR
Method:	8270D	8270D	8270D	8270D
Dilution Factor:	1	1	1	1
alpha-Terpineol	< 5	< 5	< 5	< 5
Phenol	< 1	< 1	< 1	< 1
2-Chlorophenol	< 1	< 1	< 1	< 1
2,4-Dichlorophenol	< 1	< 1	< 1	< 1
2,4,5-Trichlorophenol	< 1	< 1	< 1	< 1
2,4,6-Trichlorophenol	< 1	< 1	< 1	< 1
Pentachlorophenol	< 5	< 5	< 5	< 5
2-Nitrophenol	< 5	< 5	< 5	< 5
4-Nitrophenol	< 5	< 5	< 5	< 5
2,4-Dinitrophenol	< 10	< 10	< 10	< 10
2-Methylphenol	< 1	< 1	< 1	< 1
3/4-Methylphenol	< 1	< 1	< 1	< 1
2,4-Dimethylphenol	< 5	< 5	< 5	< 5
4-Chloro-3-methylphenol	< 1	< 1	< 1	< 1
4,6-Dinitro-2-methylphenol	< 5	< 5	< 5	< 5
Benzoic Acid	< 50	< 50	< 50	< 50
N-Nitrosodimethylamine	< 1	< 1	< 1	< 1
n-Nitroso-di-n-propylamine	< 0.5	< 0.5	< 0.5	< 0.5
n-Nitrosodiphenylamine	< 1	< 1	< 1	< 1
bis(2-Chloroethyl)ether	< 1	< 1	< 1	< 1
bis(2-chloroisopropyl)ether	< 1	< 1	< 1	< 1
bis(2-Chloroethoxy)methane	< 1	< 1	< 1	< 1
1,3-Dichlorobenzene	< 1	< 1	< 1	< 1
Acetophenone	< 10	< 10	< 10	< 10
1,4-Dichlorobenzene	< 1	< 1	< 1	< 1
1,2-Dichlorobenzene	< 1	< 1	< 1	< 1
1,2,4-Trichlorobenzene	< 1	< 1	< 1	< 1
2-Chloronaphthalene	< 1	< 1	< 1	< 1
4-Chlorophenyl-phenylether	< 1	< 1	< 1	< 1
4-Bromophenyl-phenylether	< 1	< 1	< 1	< 1
Hexachloroethane	< 1	< 1	< 1	< 1
Hexachlorobutadiene	< 1	< 1	< 1	< 1
Hexachlorocyclopentadiene	< 5	< 5	< 5	< 5
Hexachlorobenzene	< 1	< 1	< 1	< 1
4-Chloroaniline	< 1	< 1	< 1	< 1
2,3-Dichloroaniline	< 1	< 1	< 1	< 1
2-Nitroaniline	< 5	< 5	< 5	< 5
3-Nitroaniline	< 5	< 5	< 5	< 5
4-Nitroaniline	< 5	< 5	< 5	< 5
Aniline	< 1	< 1	< 1	< 1
Benzyl alcohol	< 10	< 10	< 10	< 10
Nitrobenzene	< 1	< 1	< 1	< 1
Isophorone	< 1	< 1	< 1	< 1
2,4-Dinitrotoluene	< 2	< 2	< 2	< 2
2,6-Dinitrotoluene	< 2	< 2	< 2	< 2
Benzidine (estimated)	< 5	< 5	< 5	< 5
3,3'-Dichlorobenzidine	< 1	< 1	< 1	< 1



LABORATORY REPORT

EAI ID#: **242095**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Dalton | Groundwater / 1003.22**

Sample ID:	MW-2_20220426	MW-5_20220426	MW-14_20220426	MW-16_20220426
Lab Sample ID:	242095.01	242095.02	242095.04	242095.05
Matrix:	aqueous	aqueous	aqueous	aqueous
Date Sampled:	4/26/22	4/26/22	4/26/22	4/26/22
Date Received:	4/27/22	4/27/22	4/27/22	4/27/22
Units:	ug/L	ug/L	ug/L	ug/L
Date of Extraction/Prep:	4/28/22	4/28/22	4/28/22	4/28/22
Date of Analysis:	4/28/22	4/28/22	4/28/22	4/28/22
Analyst:	JMR	JMR	JMR	JMR
Method:	8270D	8270D	8270D	8270D
Dilution Factor:	1	1	1	1
Pyridine	< 5	< 5	< 5	< 5
Azobenzene	< 1	< 1	< 1	< 1
Carbazole	< 1	< 1	< 1	< 1
Dimethylphthalate	< 1	< 1	< 1	< 1
Diethylphthalate	< 5	< 5	< 5	< 5
Di-n-butylphthalate	< 5	< 5	< 5	< 5
Butylbenzylphthalate	< 5	< 5	< 5	< 5
bis(2-Ethylhexyl)phthalate	< 5	< 5	< 5	< 5
Di-n-octylphthalate	< 5	< 5	< 5	< 5
Dibenzofuran	< 1	< 1	< 1	< 1
Naphthalene	< 0.1	< 0.1	< 0.1	< 0.1
2-Methylnaphthalene	< 0.1	< 0.1	< 0.1	< 0.1
1-Methylnaphthalene	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthene	< 0.1	< 0.1	< 0.1	< 0.1
Fluorene	< 0.1	< 0.1	< 0.1	< 0.1
Phenanthrene	< 0.1	< 0.1	< 0.1	< 0.1
Anthracene	< 0.1	< 0.1	< 0.1	< 0.1
Fluoranthene	< 0.1	< 0.1	< 0.1	< 0.1
Pyrene	< 0.1	< 0.1	< 0.1	< 0.1
Benzo[a]anthracene	< 0.1	< 0.1	< 0.1	< 0.1
Chrysene	< 0.1	< 0.1	< 0.1	< 0.1
Benzo[b]fluoranthene	< 0.1	< 0.1	< 0.1	< 0.1
Benzo[k]fluoranthene	< 0.1	< 0.1	< 0.1	< 0.1
Benzo[a]pyrene	< 0.1	< 0.1	< 0.1	< 0.1
Indeno[1,2,3-cd]pyrene	< 0.1	< 0.1	< 0.1	< 0.1
Dibenz[a,h]anthracene	< 0.1	< 0.1	< 0.1	< 0.1
Benzo[g,h,i]perylene	< 0.1	< 0.1	< 0.1	< 0.1
n-Decane	< 5	< 5	< 5	< 5
n-Octadecane	< 5	< 5	< 5	< 5
2-Fluorophenol (surr)	29 %R	29 %R	34 %R	28 %R
Phenol-d6 (surr)	20 %R	20 %R	23 %R	19 %R
2,4,6-Tribromophenol (surr)	58 %R	67 %R	68 %R	55 %R
Nitrobenzene-D5 (surr)	56 %R	54 %R	67 %R	52 %R
2-Fluorobiphenyl (surr)	61 %R	61 %R	74 %R	56 %R
p-Terphenyl-D14 (surr)	78 %R	74 %R	74 %R	72 %R



LABORATORY REPORT

EAI ID#: 242095

Client: Sanborn, Head & Associates, Inc. (NH)

Client Designation: Dalton | Groundwater / 1003.22

Sample ID: MW-23_20220426 MW-24_20220426

Lab Sample ID:	242095.06	242095.07
Matrix:	aqueous	aqueous
Date Sampled:	4/26/22	4/26/22
Date Received:	4/27/22	4/27/22
Units:	ug/L	ug/L
Date of Extraction/Prep:	4/28/22	4/28/22
Date of Analysis:	4/28/22	4/28/22
Analyst:	JMR	JMR
Method:	8270D	8270D
Dilution Factor:	1	1
alpha-Terpineol	< 5	< 5
Phenol	< 1	< 1
2-Chlorophenol	< 1	< 1
2,4-Dichlorophenol	< 1	< 1
2,4,5-Trichlorophenol	< 1	< 1
2,4,6-Trichlorophenol	< 1	< 1
Pentachlorophenol	< 5	< 5
2-Nitrophenol	< 5	< 5
4-Nitrophenol	< 5	< 5
2,4-Dinitrophenol	< 10	< 10
2-Methylphenol	< 1	< 1
3/4-Methylphenol	< 1	< 1
2,4-Dimethylphenol	< 5	< 5
4-Chloro-3-methylphenol	< 1	< 1
4,6-Dinitro-2-methylphenol	< 5	< 5
Benzoic Acid	< 50	< 50
N-Nitrosodimethylamine	< 1	< 1
n-Nitroso-di-n-propylamine	< 0.5	< 0.5
n-Nitrosodiphenylamine	< 1	< 1
bis(2-Chloroethyl)ether	< 1	< 1
bis(2-chloroisopropyl)ether	< 1	< 1
bis(2-Chloroethoxy)methane	< 1	< 1
1,3-Dichlorobenzene	< 1	< 1
Acetophenone	< 10	< 10
1,4-Dichlorobenzene	< 1	< 1
1,2-Dichlorobenzene	< 1	< 1
1,2,4-Trichlorobenzene	< 1	< 1
2-Chloronaphthalene	< 1	< 1
4-Chlorophenyl-phenylether	< 1	< 1
4-Bromophenyl-phenylether	< 1	< 1
Hexachloroethane	< 1	< 1
Hexachlorobutadiene	< 1	< 1
Hexachlorocyclopentadiene	< 5	< 5
Hexachlorobenzene	< 1	< 1
4-Chloroaniline	< 1	< 1
2,3-Dichloroaniline	< 1	< 1
2-Nitroaniline	< 5	< 5
3-Nitroaniline	< 5	< 5
4-Nitroaniline	< 5	< 5
Aniline	< 1	< 1
Benzyl alcohol	< 10	< 10
Nitrobenzene	< 1	< 1
Isophorone	< 1	< 1
2,4-Dinitrotoluene	< 2	< 2
2,6-Dinitrotoluene	< 2	< 2
Benzidine (estimated)	< 5	< 5
3,3'-Dichlorobenzidine	< 1	< 1



LABORATORY REPORT

EAI ID#: 242095

Client: Sanborn, Head & Associates, Inc. (NH)

Client Designation: Dalton | Groundwater / 1003.22

Sample ID: MW-23_20220426 MW-24_20220426

Lab Sample ID:	242095.06	242095.07
Matrix:	aqueous	aqueous
Date Sampled:	4/26/22	4/26/22
Date Received:	4/27/22	4/27/22
Units:	ug/L	ug/L
Date of Extraction/Prep:	4/28/22	4/28/22
Date of Analysis:	4/28/22	4/28/22
Analyst:	JMR	JMR
Method:	8270D	8270D
Dilution Factor:	1	1
Pyridine	< 5	< 5
Azobenzene	< 1	< 1
Carbazole	< 1	< 1
Dimethylphthalate	< 1	< 1
Diethylphthalate	< 5	< 5
Di-n-butylphthalate	< 5	< 5
Butylbenzylphthalate	< 5	< 5
bis(2-Ethylhexyl)phthalate	< 5	< 5
Di-n-octylphthalate	< 5	< 5
Dibenzofuran	< 1	< 1
Naphthalene	< 0.1	< 0.1
2-Methylnaphthalene	< 0.1	< 0.1
1-Methylnaphthalene	< 0.1	< 0.1
Acenaphthylene	< 0.1	< 0.1
Acenaphthene	< 0.1	< 0.1
Fluorene	< 0.1	< 0.1
Phenanthrene	< 0.1	< 0.1
Anthracene	< 0.1	< 0.1
Fluoranthene	< 0.1	< 0.1
Pyrene	< 0.1	< 0.1
Benzo[a]anthracene	< 0.1	< 0.1
Chrysene	< 0.1	< 0.1
Benzo[b]fluoranthene	< 0.1	< 0.1
Benzo[k]fluoranthene	< 0.1	< 0.1
Benzo[a]pyrene	< 0.1	< 0.1
Indeno[1,2,3-cd]pyrene	< 0.1	< 0.1
Dibenz[a,h]anthracene	< 0.1	< 0.1
Benzo[g,h,i]perylene	< 0.1	< 0.1
n-Decane	< 5	< 5
n-Octadecane	< 5	< 5
2-Fluorophenol (surr)	24 %R	33 %R
Phenol-d6 (surr)	17 %R	23 %R
2,4,6-Tribromophenol (surr)	53 %R	64 %R
Nitrobenzene-D5 (surr)	49 %R	60 %R
2-Fluorobiphenyl (surr)	56 %R	70 %R
p-Terphenyl-D14 (surr)	70 %R	73 %R



QC REPORT

EAI ID#: 242095

Client: Sanborn, Head & Associates, Inc. (NH)

Batch ID: 637867-27431/A042822ABN1

Client Designation: Dalton | Groundwater / 1003.22

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
alpha-Terpineol	< 5	14 (56 %R)	17 (69 %R) (21 RPD) !	4/28/2022	ug/L	40 - 140	20	8270D
Phenol	< 1	11 (21 %R)	14 (28 %R) (27 RPD) !	4/28/2022	ug/L	15 - 130	20	8270D
2-Chlorophenol	< 1	23 (47 %R)	32 (63 %R) (30 RPD) !	4/28/2022	ug/L	30 - 130	20	8270D
2,4-Dichlorophenol	< 1	29 (57 %R)	37 (74 %R) (25 RPD) !	4/28/2022	ug/L	30 - 130	20	8270D
2,4,5-Trichlorophenol	< 1	33 (65 %R)	38 (76 %R) (15 RPD)	4/28/2022	ug/L	30 - 130	20	8270D
2,4,6-Trichlorophenol	< 1	31 (63 %R)	37 (74 %R) (17 RPD)	4/28/2022	ug/L	30 - 130	20	8270D
Pentachlorophenol	< 5	32 (65 %R)	33 (67 %R) (3 RPD)	4/28/2022	ug/L	30 - 130	20	8270D
2-Nitrophenol	< 5	27 (53 %R)	36 (73 %R) (31 RPD) !	4/28/2022	ug/L	30 - 130	20	8270D
4-Nitrophenol	< 5	15 (29 %R)	15 (30 %R) (3 RPD)	4/28/2022	ug/L	15 - 130	20	8270D
2,4-Dinitrophenol	< 10	34 (68 %R)	27 (53 %R) (24 RPD) !	4/28/2022	ug/L	15 - 130	20	8270D
2-Methylphenol	< 1	22 (45 %R)	30 (60 %R) (29 RPD) !	4/28/2022	ug/L	30 - 130	20	8270D
3/4-Methylphenol	< 1	22 (45 %R)	29 (58 %R) (26 RPD) !	4/28/2022	ug/L	30 - 130	20	8270D
2,4-Dimethylphenol	< 5	26 (53 %R)	34 (68 %R) (25 RPD) !	4/28/2022	ug/L	30 - 130	20	8270D
4-Chloro-3-methylphenol	< 1	34 (67 %R)	38 (77 %R) (13 RPD)	4/28/2022	ug/L	30 - 130	20	8270D
4,6-Dinitro-2-methylphenol	< 5	37 (74 %R)	38 (77 %R) (3 RPD)	4/28/2022	ug/L	30 - 130	20	8270D
Benzoic Acid	< 50	< 50 (22 %R)	* < 50 (14 %R) (41 RPD) !	4/28/2022	ug/L	15 - 130	20	8270D
N-Nitrosodimethylamine	< 1	9.3 (37 %R)	12 (47 %R) (22 RPD) !	4/28/2022	ug/L	15 - 140	20	8270D
n-Nitroso-di-n-propylamine	< 0.5	13 (53 %R)	17 (69 %R) (25 RPD) !	4/28/2022	ug/L	40 - 140	20	8270D
n-Nitrosodiphenylamine	< 1	18 (73 %R)	19 (77 %R) (5 RPD)	4/28/2022	ug/L	40 - 140	20	8270D
bis(2-Chloroethyl)ether	< 1	12 (50 %R)	17 (67 %R) (29 RPD) !	4/28/2022	ug/L	40 - 140	20	8270D
bis(2-chloroisopropyl)ether	< 1	11 (45 %R)	16 (62 %R) (31 RPD) !	4/28/2022	ug/L	40 - 140	20	8270D
bls(2-Chloroethoxy)methane	< 1	14 (56 %R)	18 (72 %R) (25 RPD) !	4/28/2022	ug/L	40 - 140	20	8270D
1,3-Dichlorobenzene	< 1	12 (46 %R)	15 (60 %R) (26 RPD) !	4/28/2022	ug/L	40 - 140	20	8270D
Acetophenone	< 10	13 (53 %R)	18 (71 %R) (29 RPD) !	4/28/2022	ug/L	40 - 140	20	8270D
1,4-Dichlorobenzene	< 1	12 (47 %R)	15 (61 %R) (26 RPD) !	4/28/2022	ug/L	40 - 140	20	8270D
1,2-Dichlorobenzene	< 1	12 (48 %R)	16 (62 %R) (27 RPD) !	4/28/2022	ug/L	40 - 140	20	8270D
1,2,4-Trichlorobenzene	< 1	13 (51 %R)	17 (67 %R) (27 RPD) !	4/28/2022	ug/L	40 - 140	20	8270D
2-Chloronaphthalene	< 1	15 (60 %R)	19 (75 %R) (21 RPD) !	4/28/2022	ug/L	40 - 140	20	8270D
4-Chlorophenyl-phenylether	< 1	18 (72 %R)	19 (78 %R) (8 RPD)	4/28/2022	ug/L	40 - 140	20	8270D
4-Bromophenyl-phenylether	< 1	18 (74 %R)	20 (79 %R) (7 RPD)	4/28/2022	ug/L	40 - 140	20	8270D
Hexachloroethane	< 1	11 (45 %R)	15 (59 %R) (28 RPD) !	4/28/2022	ug/L	40 - 140	20	8270D
Hexachlorobutadiene	< 1	12 (50 %R)	17 (66 %R) (28 RPD) !	4/28/2022	ug/L	40 - 140	20	8270D
Hexachlorocyclopentadiene	< 5	7.6 (31 %R)	10 (41 %R) (30 RPD) !	4/28/2022	ug/L	15 - 140	20	8270D
Hexachlorobenzene	< 1	19 (75 %R)	20 (79 %R) (6 RPD)	4/28/2022	ug/L	40 - 140	20	8270D
4-Chloroaniline	< 1	16 (65 %R)	19 (75 %R) (15 RPD)	4/28/2022	ug/L	15 - 140	20	8270D
2,3-Dichloroaniline	< 1	16 (63 %R)	19 (75 %R) (18 RPD)	4/28/2022	ug/L	40 - 140	20	8270D
2-Nitroaniline	< 5	18 (70 %R)	20 (79 %R) (12 RPD)	4/28/2022	ug/L	40 - 140	20	8270D
3-Nitroaniline	< 5	19 (77 %R)	20 (81 %R) (5 RPD)	4/28/2022	ug/L	40 - 140	20	8270D
4-Nitroaniline	< 5	20 (82 %R)	21 (85 %R) (4 RPD)	4/28/2022	ug/L	40 - 140	20	8270D
Aniline	< 1	13 (53 %R)	16 (62 %R) (16 RPD)	4/28/2022	ug/L	40 - 140	20	8270D
Benzyl alcohol	< 10	12 (49 %R)	15 (62 %R) (24 RPD) !	4/28/2022	ug/L	40 - 140	20	8270D
Nitrobenzene	< 1	13 (51 %R)	17 (68 %R) (28 RPD) !	4/28/2022	ug/L	40 - 140	20	8270D
Isophorone	< 1	15 (60 %R)	18 (73 %R) (20 RPD)	4/28/2022	ug/L	40 - 140	20	8270D
2,4-Dinitrotoluene	< 2	20 (81 %R)	21 (86 %R) (5 RPD)	4/28/2022	ug/L	40 - 140	20	8270D
2,6-Dinitrotoluene	< 2	19 (75 %R)	20 (82 %R) (8 RPD)	4/28/2022	ug/L	40 - 140	20	8270D
Benzidine (estimated)	< 5	8.7 (35 %R)	5.8 (23 %R) (41 RPD)	4/28/2022	ug/L	1 - 200	50	8270D



QC REPORT

EAI ID#: 242095

Client: Sanborn, Head & Associates, Inc. (NH)

Batch ID: 637867-27431/A042822ABN1

Client Designation: Dalton | Groundwater / 1003.22

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
3,3'-Dichlorobenzidine	< 1	19 (77 %R)	20 (81 %R) (5 RPD)	4/28/2022	ug/L	40 - 140	20	8270D
Pyridine	< 5	8.8 (35 %R)	8.8 (35 %R) (0 RPD)	4/28/2022	ug/L	15 - 140	20	8270D
Azobenzene	< 1	18 (71 %R)	19 (76 %R) (8 RPD)	4/28/2022	ug/L	40 - 140	20	8270D
Carbazole	< 1	21 (84 %R)	22 (86 %R) (3 RPD)	4/28/2022	ug/L	40 - 140	20	8270D
Dimethylphthalate	< 1	19 (78 %R)	21 (83 %R) (6 RPD)	4/28/2022	ug/L	40 - 140	20	8270D
Diethylphthalate	< 5	21 (83 %R)	22 (86 %R) (5 RPD)	4/28/2022	ug/L	40 - 140	20	8270D
Di-n-butylphthalate	< 5	22 (89 %R)	23 (92 %R) (3 RPD)	4/28/2022	ug/L	40 - 140	20	8270D
Butylbenzylphthalate	< 5	22 (86 %R)	22 (89 %R) (3 RPD)	4/28/2022	ug/L	40 - 140	20	8270D
bis(2-Ethylhexyl)phthalate	< 5	22 (88 %R)	23 (90 %R) (3 RPD)	4/28/2022	ug/L	40 - 140	20	8270D
Di-n-octylphthalate	< 5	21 (83 %R)	22 (87 %R) (5 RPD)	4/28/2022	ug/L	40 - 140	20	8270D
Dibenzofuran	< 1	17 (70 %R)	20 (78 %R) (11 RPD)	4/28/2022	ug/L	40 - 140	20	8270D
Naphthalene	< 0.1	13 (52 %R)	17 (67 %R) (26 RPD) !	4/28/2022	ug/L	40 - 140	20	8270D
2-Methylnaphthalene	< 0.1	14 (56 %R)	18 (71 %R) (23 RPD) !	4/28/2022	ug/L	40 - 140	20	8270D
1-Methylnaphthalene	< 0.1	14 (56 %R)	18 (71 %R) (23 RPD) !	4/28/2022	ug/L	40 - 140	20	8270D
Acenaphthylene	< 0.1	15 (61 %R)	18 (70 %R) (14 RPD)	4/28/2022	ug/L	40 - 140	20	8270D
Acenaphthene	< 0.1	15 (60 %R)	17 (68 %R) (13 RPD)	4/28/2022	ug/L	40 - 140	20	8270D
Fluorene	< 0.1	17 (69 %R)	19 (75 %R) (8 RPD)	4/28/2022	ug/L	40 - 140	20	8270D
Phenanthrene	< 0.1	18 (72 %R)	19 (76 %R) (5 RPD)	4/28/2022	ug/L	40 - 140	20	8270D
Anthracene	< 0.1	18 (73 %R)	19 (76 %R) (4 RPD)	4/28/2022	ug/L	40 - 140	20	8270D
Fluoranthene	< 0.1	19 (77 %R)	20 (79 %R) (3 RPD)	4/28/2022	ug/L	40 - 140	20	8270D
Pyrene	< 0.1	19 (75 %R)	19 (76 %R) (2 RPD)	4/28/2022	ug/L	40 - 140	20	8270D
Benzo[a]anthracene	< 0.1	18 (74 %R)	19 (76 %R) (2 RPD)	4/28/2022	ug/L	40 - 140	20	8270D
Chrysene	< 0.1	19 (76 %R)	19 (78 %R) (2 RPD)	4/28/2022	ug/L	40 - 140	20	8270D
Benzo[b]fluoranthene	< 0.1	19 (77 %R)	20 (79 %R) (3 RPD)	4/28/2022	ug/L	40 - 140	20	8270D
Benzo[k]fluoranthene	< 0.1	19 (77 %R)	20 (80 %R) (4 RPD)	4/28/2022	ug/L	40 - 140	20	8270D
Benzo[a]pyrene	< 0.1	18 (74 %R)	19 (76 %R) (3 RPD)	4/28/2022	ug/L	40 - 140	20	8270D
Indeno[1,2,3-cd]pyrene	< 0.1	19 (76 %R)	20 (79 %R) (3 RPD)	4/28/2022	ug/L	40 - 140	20	8270D
Dibenz[a,h]anthracene	< 0.1	20 (80 %R)	21 (82 %R) (3 RPD)	4/28/2022	ug/L	40 - 140	20	8270D
Benzo[g,h,i]perylene	< 0.1	20 (78 %R)	20 (80 %R) (3 RPD)	4/28/2022	ug/L	40 - 140	20	8270D
n-Decane	< 5	10 (40 %R)	13 (53 %R) (28 RPD) !	4/28/2022	ug/L	40 - 140	20	8270D
n-Octadecane	< 5	19 (74 %R)	20 (80 %R) (7 RPD)	4/28/2022	ug/L	40 - 140	20	8270D
2-Fluorophenol (surr)	33 %R	27 %R	37 %R	4/28/2022	% Rec	15 - 110		8270D
Phenol-d6 (surr)	23 %R	20 %R	27 %R	4/28/2022	% Rec	15 - 110		8270D
2,4,6-Tribromophenol (surr)	66 %R	74 %R	81 %R	4/28/2022	% Rec	15 - 110		8270D
Nitrobenzene-D5 (surr)	60 %R	51 %R	69 %R	4/28/2022	% Rec	30 - 130		8270D
2-Fluorobiphenyl (surr)	69 %R	60 %R	74 %R	4/28/2022	% Rec	30 - 130		8270D
p-Terphenyl-D14 (surr)	80 %R	80 %R	83 %R	4/28/2022	% Rec	30 - 130		8270D

*! Flagged analyte recoveries deviated from the QA/QC limits. Data that impacts sample results are noted on the sample report.



LABORATORY REPORT

EAI ID#: **242095**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Dalton | Groundwater / 1003.22**

Sample ID:	MW-2_20220426	MW-5_20220426	MW-10_20220426	MW-14_20220426
Lab Sample ID:	242095.01	242095.02	242095.03	242095.04
Matrix:	aqueous	aqueous	aqueous	aqueous
Date Sampled:	4/26/22	4/26/22	4/26/22	4/26/22
Date Received:	4/27/22	4/27/22	4/27/22	4/27/22
Units:	ug/L	ug/L	ug/L	ug/L
Date of Extraction/Prep:	4/28/22	4/28/22	4/28/22	4/28/22
Date of Analysis:	4/28/22	4/28/22	4/28/22	4/28/22
Analyst:	WOD	WOD	WOD	WOD
Method:	8011/504	8011/504	8011/504	8011/504
Dilution Factor:	1	1	1	1
1,2-Dibromoethane(EDB)	< 0.02	< 0.02	< 0.02	< 0.02
Dibromochloropropane (DBCP)	< 0.02	< 0.02	< 0.02	< 0.02
1,1,1,2-Tetrachloroethane (surr)	97 %R	101 %R	102 %R	98 %R



LABORATORY REPORT

EAI ID#: **242095**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Dalton | Groundwater / 1003.22**

Sample ID:	MW-16_20220426	MW-23_20220426	MW-24_20220426
Lab Sample ID:	242095.05	242095.06	242095.07
Matrix:	aqueous	aqueous	aqueous
Date Sampled:	4/26/22	4/26/22	4/26/22
Date Received:	4/27/22	4/27/22	4/27/22
Units:	ug/L	ug/L	ug/L
Date of Extraction/Prep:	4/28/22	5/4/22	5/4/22
Date of Analysis:	4/28/22	5/4/22	5/4/22
Analyst:	WOD	WOD	WOD
Method:	8011/504	8011/504	8011/504
Dilution Factor:	1	1	1
1,2-Dibromoethane(EDB)	< 0.02	< 0.02	< 0.02
Dibromochloropropane (DBCP)	< 0.02	< 0.02	< 0.02
1,1,1,2-Tetrachloroethane (surr)	128 %R	102 %R	93 %R



QC REPORT

EAI ID#: **242095**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Batch ID: 637867-30699/A042822E5041

Client Designation: **Dalton | Groundwater / 1003.22**

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
1,2-Dibromoethane(EDB)	< 0.02	0.10 (103 %R)	0.11 (106 %R) (2 RPD)	4/28/2022	ug/L	70 - 130	20	8011/504
Dibromochloropropane (DBCP)	< 0.02	0.098 (98 %R)	0.099 (99 %R) (2 RPD)	4/28/2022	ug/L	70 - 130	20	8011/504
1,1,1,2-Tetrachloroethane (surr)	98 %R	93 %R	97 %R	4/28/2022	% Rec	65 - 135	20	8011/504

*! Flagged analyte recoveries deviated from the QA/QC limits. Data that impacts sample results are noted on the sample report.



QC REPORT

EAI ID#: **242095**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Batch ID: 637872-51469/A050422E5041

Client Designation: **Dalton | Groundwater / 1003.22**

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
1,2-Dibromoethane(EDB)	< 0.02	0.097 (97 %R)	0.091 (91 %R) (7 RPD)	5/4/2022	ug/L	70 - 130	20	8011/504
Dibromochloropropane (DBCP)	< 0.02	0.095 (95 %R)	0.090 (90 %R) (5 RPD)	5/4/2022	ug/L	70 - 130	20	8011/504
1,1,1,2-Tetrachloroethane (surr)	92 %R	90 %R	91 %R	5/4/2022	% Rec	65 - 135	20	8011/504

*! Flagged analyte recoveries deviated from the QA/QC limits. Data that impacts sample results are noted on the sample report.



LABORATORY REPORT

EAI ID#: 242095

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Dalton | Groundwater / 1003.22**

Sample ID:	MW-2_20220426	MW -5_20220426	MW -10_20220426	MW -14_20220426					
Lab Sample ID:	242095.01	242095.02	242095.03	242095.04					
Matrix:	aqueous	aqueous	aqueous	aqueous					
Date Sampled:	4/26/22	4/26/22	4/26/22	4/26/22					
Date Received:	4/27/22	4/27/22	4/27/22	4/27/22	Units	Analysis Date Time		Method	Analyst
Sulfate	5	6.1	2	6.1	mg/L	04/29/22	4:54	300.0	LLG
Chloride	< 1	< 1	< 1	< 1	mg/L	04/27/22	14:35	4500CIE-11	LLG
Nitrate-N	< 0.5	< 0.5	< 0.5	< 0.5	mg/L	04/27/22	14:35	353.2	LLG
TKN	< 0.5	0.51	< 0.5	3.0	mg/L	05/02/22	16:40	4500N _{org} C/NH3D	SEL
COD	< 10	< 10	< 10	< 10	mg/L	04/28/22	10:30	H8000	JCS
Dissolved Organic Carbon	0.66	5.7	0.84	4.5	mg/L	05/02/22	12:09	5310C-00	LO

Sample ID:	MW-16_20220426	MW -23_20220426	MW -24_20220426						
Lab Sample ID:	242095.05	242095.06	242095.07						
Matrix:	aqueous	aqueous	aqueous						
Date Sampled:	4/26/22	4/26/22	4/26/22						
Date Received:	4/27/22	4/27/22	4/27/22	Units	Analysis Date Time		Method	Analyst	
Sulfate	3.5	1	< 1	mg/L	04/28/22	20:57	300.0	LLG	
Chloride	< 1	< 1	< 1	mg/L	04/27/22	14:54	4500CIE-11	LLG	
Nitrate-N	< 0.5	< 0.5	< 0.5	mg/L	04/27/22	14:54	353.2	LLG	
TKN	0.58	0.64	< 0.5	mg/L	05/02/22	16:52	4500N _{org} C/NH3D	SEL	
COD	< 10	< 10	< 10	mg/L	04/28/22	10:30	H8000	JCS	
Dissolved Organic Carbon	1.8	2.2	1.2	mg/L	05/02/22	14:43	5310C-00	LO	



QC REPORT

EAI ID#: 242095

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Dalton | Groundwater / 1003.22**

Parameter Name	Blank	LCS	LCSD	Units	Date of Analysis	Limits	RPD	Method
Sulfate	< 1	20 (100 %R)	20 (101 %R) (1 RPD)	mg/L	4/29/22	90 - 110	20	300.0
Chloride	< 1	25 (101 %R)	25 (99 %R) (2 RPD)	mg/L	4/27/22	90 - 110	20	4500CIE-11
Nitrate-N	< 0.5	4.9 (98 %R)	4.9 (98 %R) (1 RPD)	mg/L	4/27/22	90 - 110	20	353.2
TKN	< 0.5	10 (105 %R)	9.7 (97 %R) (8 RPD)	mg/L	5/2/22	90 - 111	20	4500N _{org} C/NH3D-11
COD	< 10	100 (104 %R)	110 (105 %R) (1 RPD)	mg/L	4/28/22	85 - 115	20	H8000
Dissolved Organic Carbon	< 0.5	10 (101 %R)	10 (104 %R) (3 RPD)	mg/L	5/2/22	90 - 110	20	5310C-00

*If Flagged analyte recoveries deviated from the QA/QC limits. Unless noted, flagged data does not impact the sample data.



LABORATORY REPORT

EAI ID#: **242095**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Dalton | Groundwater / 1003.22**

Sample ID:	MW-2_20220426	MW -5_20220426	MW -14_20220426	MW -23_20220426					
Lab Sample ID:	242095.01	242095.02	242095.04	242095.06					
Matrix:	aqueous	aqueous	aqueous	aqueous					
Date Sampled:	4/26/22	4/26/22	4/26/22	4/26/22	Analytical		Date of		
Date Received:	4/27/22	4/27/22	4/27/22	4/27/22	Matrix	Units	Analysis	Method	Analyst
Aluminum	< 0.05	< 0.05	0.063	0.13	AqDis	mg/L	4/28/22	200.8	DS
Antimony	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	4/28/22	200.8	DS
Arsenic	< 0.0005	< 0.0005	0.0015	< 0.0005	AqDis	mg/L	4/28/22	200.8	DS
Barium	0.012	0.028	0.041	0.0063	AqDis	mg/L	4/28/22	200.8	DS
Beryllium	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	4/28/22	200.8	DS
Calcium	9.7	15	8.4	1.9	AqDis	mg/L	4/28/22	200.8	DS
Cadmium	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	4/28/22	200.8	DS
Chromium	< 0.001	< 0.001	0.0012	< 0.001	AqDis	mg/L	4/28/22	200.8	DS
Copper	< 0.001	0.019	0.018	< 0.001	AqDis	mg/L	4/28/22	200.8	DS
Iron	< 0.05	< 0.05	3.6	< 0.05	AqDis	mg/L	4/28/22	200.8	DS
Lead	< 0.001	0.0015	0.0015	< 0.001	AqDis	mg/L	4/28/22	200.8	DS
Manganese	< 0.005	3.6	0.56	< 0.005	AqDis	mg/L	4/28/22	200.8	DS
Nickel	< 0.001	0.0024	0.0012	< 0.001	AqDis	mg/L	4/28/22	200.8	DS
Selenium	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	4/28/22	200.8	DS
Silver	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	4/28/22	200.8	DS
Thallium	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	4/28/22	200.8	DS
Zinc	< 0.005	0.032	0.027	< 0.005	AqDis	mg/L	4/28/22	200.8	DS



LABORATORY REPORT

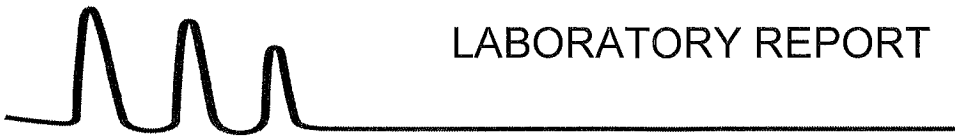
EAI ID#: 242095

Client: **Sanborn, Head & Associates, Inc. (NH)**
 Client Designation: **Dalton | Groundwater / 1003.22**

Sample ID: MW-24_20220426

Lab Sample ID: 242095.07
 Matrix: aqueous
 Date Sampled: 4/26/22
 Date Received: 4/27/22

		Analytical Matrix	Units	Date of Analysis	Method	Analyst
Aluminum	0.088	AqDis	mg/L	4/28/22	200.8	DS
Antimony	< 0.001	AqDis	mg/L	4/28/22	200.8	DS
Arsenic	< 0.0005	AqDis	mg/L	4/28/22	200.8	DS
Barium	0.0061	AqDis	mg/L	4/28/22	200.8	DS
Beryllium	< 0.001	AqDis	mg/L	4/28/22	200.8	DS
Calcium	1.6	AqDis	mg/L	4/28/22	200.8	DS
Cadmium	< 0.001	AqDis	mg/L	4/28/22	200.8	DS
Chromium	< 0.001	AqDis	mg/L	4/28/22	200.8	DS
Copper	< 0.001	AqDis	mg/L	4/28/22	200.8	DS
Iron	< 0.05	AqDis	mg/L	4/28/22	200.8	DS
Lead	< 0.001	AqDis	mg/L	4/28/22	200.8	DS
Manganese	< 0.005	AqDis	mg/L	4/28/22	200.8	DS
Nickel	< 0.001	AqDis	mg/L	4/28/22	200.8	DS
Selenium	< 0.001	AqDis	mg/L	4/28/22	200.8	DS
Silver	< 0.001	AqDis	mg/L	4/28/22	200.8	DS
Thallium	< 0.001	AqDis	mg/L	4/28/22	200.8	DS
Zinc	< 0.005	AqDis	mg/L	4/28/22	200.8	DS



LABORATORY REPORT

EAI ID#: 242095

Client: **Sanborn, Head & Associates, Inc. (NH)**
 Client Designation: **Dalton | Groundwater / 1003.22**

Sample ID: MW-10_20220426 MW
 -16_2022042
 6

Lab Sample ID: 242095.03 242095.05

Matrix: aqueous aqueous

Date Sampled: 4/26/22 4/26/22

Date Received: 4/27/22 4/27/22

Iron < 0.05 **0.074**
 Manganese **0.055** **0.0052**

Analytical Matrix	Units	Date of Analysis	Method	Analyst
AqDis	mg/L	4/28/22	200.8	DS
AqDis	mg/L	4/28/22	200.8	DS



QC REPORT

EAI ID#: 242095

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Dalton | Groundwater / 1003.22**

Parameter Name	Blank	LCS	LCSD	Units	Date of Analysis	Limits	RPD	Method
Aluminum	< 0.05	9.9 (99 %R)	NA	mg/L	4/28/22	85 - 115	20	200.8
Antimony	< 0.001	0.23 (115 %R)	NA	mg/L	4/28/22	85 - 115	20	200.8
Arsenic	< 0.0005	0.21 (103 %R)	NA	mg/L	4/28/22	85 - 115	20	200.8
Barium	< 0.001	0.22 (108 %R)	NA	mg/L	4/28/22	85 - 115	20	200.8
Beryllium	< 0.001	0.22 (108 %R)	NA	mg/L	4/28/22	85 - 115	20	200.8
Calcium	< 0.05	9.9 (99 %R)	NA	mg/L	4/28/22	85 - 115	20	200.8
Cadmium	< 0.001	0.21 (104 %R)	NA	mg/L	4/28/22	85 - 115	20	200.8
Chromium	< 0.001	0.21 (105 %R)	NA	mg/L	4/28/22	85 - 115	20	200.8
Copper	< 0.001	0.20 (102 %R)	NA	mg/L	4/28/22	85 - 115	20	200.8
Iron	< 0.05	10 (104 %R)	NA	mg/L	4/28/22	85 - 115	20	200.8
Lead	< 0.001	0.20 (101 %R)	NA	mg/L	4/28/22	85 - 115	20	200.8
Manganese	< 0.005	0.21 (105 %R)	NA	mg/L	4/28/22	85 - 115	20	200.8
Nickel	< 0.001	0.20 (102 %R)	NA	mg/L	4/28/22	85 - 115	20	200.8
Selenium	< 0.001	0.20 (102 %R)	NA	mg/L	4/28/22	85 - 115	20	200.8
Silver	< 0.001	0.010 (104 %R)	NA	mg/L	4/28/22	85 - 115	20	200.8
Thallium	< 0.001	0.20 (101 %R)	NA	mg/L	4/28/22	85 - 115	20	200.8
Zinc	< 0.005	0.22 (108 %R)	NA	mg/L	4/28/22	85 - 115	20	200.8

*! Flagged analyte recoveries deviated from the QA/QC limits. Unless noted, flagged data does not impact the sample data.

Sample ID	Sampling Date/Time *If Composite, Indicate Both Start & Finish Date/Time	Matrix (see below)	Grab/*Composite	Analyses Requested															# of Containers	NOTES MeOH Vial #							
				VOCs - EPA 8260C	Low Level 1,4-Dioxane (USEPA 8260B-SIM)	Low Level EDB/DIBCP (504-1)	SVOCs (EPA 8270D)	COD (SM 5220D)	DOC (8310C)	Chloride, Nitrate, Sulfate (EPA 300.0)	TKN (SM-500NrgCANH3D)	Dissolved Metals List A (EPA 200.6)	Dissolved Metals List B (EPA 200.6)	Total Metals List A (EPA 200.8)	Total Metals List B (EPA 200.8)												
MW-2_20220426	4/26/22 1402	GW	G	x	x	x	x	x	x	x	x	x	x	x													11
MW-5_20220426	1605	GW	G	x	x	x	x	x	x	x	x	x	x	x													11
MW-10_20220426	1525	GW	G	x	x	x	x	x	x	x	x	x	x	x													10
MW-14_20220426	1550	GW	G	x	x	x	x	x	x	x	x	x	x	x													11
MW-16_20220426	1315	GW	G	x	x	x	x	x	x	x	x	x	x	x													11
MW-23_20220426	1455	GW	G	x	x	x	x	x	x	x	x	x	x	x													11
MW-24_20220426	1435	GW	G	x	x	x	x	x	x	x	x	x	x	x													11
TB-GW-02_20220426	1630	GW	G	x																							2
TB-L-GW-02_20220426	1630	GW	G		x																						2
		GW	G																								

Matrix: A-Air; S-Soil; GW-Ground Water; SW-Surface Water; DW-Drinking Water; WW-Waste Water; AQ-Aqueous
 Preservative: H-HCl; N-HNO3; S-H2SO4; Na-NaOH; M-MeOH; NSO-Na2S2O3

Project Manager: T. White
 Company: Sanborn, Head & Associates, Inc.
 Address: 20 Foundry Street
 City: Concord State: NH Zip: 03301
 Phone: 603-229-1900 Ext.:
 Fax: 603-229-1919
 E-Mail: twhite@sanbornhead.com
 Site Name: Dalton | Groundwater
 Project # 1003.22
 State: NH
 Regulatory Program: NPDES: RGP POTW Stormwater or GWP, Oil Fund, Brownfield or Other.
 Quote #: PO#:

Date Needed: Standard TAT
 Temp. 9.3 °C
 Ice? Yes No
 QA/QC Reporting Level: A B C
 Reporting Options: Prelims: Yes No; If Yes: Fax or PDF
 Electronic Options: No Fax E-Mail PDF Equis
 or Presumptive Certainty
 Sampler(s): PJP, GWP
 Relinquished By: [Signature] Date: 4/26/22 Time: 16:37 Received By:
 Relinquished By: [Signature] Date: 4/27/22 Time: 8:19 Received By: Shelley
 Relinquished By: Shelley Date: 4/27/22 Time: 8:33 Received By: [Signature]
 Relinquished By: _____ Date: _____ Time: _____ Received By: _____

Metals: Lists Below Samples Field Filtered: YES
 A: Fe, Mn
 B: Fe, Mn, As, Al, Sb, Ba, Be, Ca, Cd, Cr, Cu, Pb, Ni, Ag, Ti, Zn, Se
 Notes: (i.e., Special Detection Limits, Billing Info, If Different)
 Trip blank(s) prepared by EAI.
 Bill GSL.
 *Report 1,4-dioxane to 0.25 ug/l
 RL
 *Hold Final report until EQUIS EDD ready.
 Field Readings: _____



Tim White
Sanborn, Head & Associates, Inc. (NH)
20 Foundry Street
Concord, NH 03301



Subject: Laboratory Report

Eastern Analytical, Inc. ID: 242121
Client Identification: Dalton | PFAS / 1003.22
Date Received: 4/27/2022

Dear Mr. White :

Enclosed please find the report of analysis for the above identified project. As discussed, analyses were subcontracted and are listed as follows:


Analysis: Subcontract - PFAS EPA 537mod (9 Compounds)

Subcontractor Lab: Vista Analytical Laboratory

A complete copy of the report is attached. This report may not be reproduced except in full, without the written approval of the laboratory.

We appreciate this opportunity to be of service and look forward to your continued patronage.

Sincerely,



Lorraine Olashaw, Lab Director

5.18.22

Date



SAMPLE CONDITIONS PAGE

EAI ID#: **242121**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Dalton | PFAS / 1003.22**

Temperature upon receipt (°C): **1.2**

Received on ice or cold packs (Yes/No): **Y**

Acceptable temperature range (°C): 0-6

Lab ID	Sample ID	Date Received	Date/Time Sampled	Sample Matrix	% Dry Weight	Exceptions/Comments (other than thermal preservation)
242121.01	MW-2_20220426	4/27/22	4/26/22 14:02	aqueous		Adheres to Sample Acceptance Policy
242121.02	MW-3_20220425	4/27/22	4/25/22 11:42	aqueous		Adheres to Sample Acceptance Policy
242121.03	MW-5_20220426	4/27/22	4/26/22 16:05	aqueous		Adheres to Sample Acceptance Policy
242121.04	MW-6_20220427	4/27/22	4/27/22 09:09	aqueous		Adheres to Sample Acceptance Policy
242121.05	MW-11_20220427	4/27/22	4/27/22 08:42	aqueous		Adheres to Sample Acceptance Policy
242121.06	MW-12_20220425	4/27/22	4/25/22 13:58	aqueous		Adheres to Sample Acceptance Policy
242121.07	MW-13_20220425	4/27/22	4/25/22 13:32	aqueous		Adheres to Sample Acceptance Policy
242121.08	MW-14_20220426	4/27/22	4/26/22 15:50	aqueous		Adheres to Sample Acceptance Policy
242121.09	MW-15_20220427	4/27/22	4/27/22 08:15	aqueous		Adheres to Sample Acceptance Policy
242121.1	MW-16_20220426	4/27/22	4/26/22 13:15	aqueous		Adheres to Sample Acceptance Policy
242121.11	MW-23_20220426	4/27/22	4/26/22 14:55	aqueous		Adheres to Sample Acceptance Policy
242121.12	MW-24_20220426	4/27/22	4/26/22 14:35	aqueous		Adheres to Sample Acceptance Policy
242121.13	MW-25_20220425	4/27/22	4/25/22 08:46	aqueous		Adheres to Sample Acceptance Policy
242121.14	FB-01_20220427	4/27/22	4/27/22 09:15	aqueous		Adheres to Sample Acceptance Policy

All results contained in this report relate only to the above listed samples.

Unless otherwise noted:

- Hold times, preservation, container types, and sample conditions adhered to EPA Protocol.
- Solid samples are reported on a dry weight basis, unless otherwise noted. pH/Corrosivity, Flashpoint, Ignitability, Paint Filter, Conductivity and Specific Gravity are always reported on an "as received" basis.
- Analysis of pH, Total Residual Chlorine, Dissolved Oxygen and Sulfite were performed at the laboratory outside of the recommended 15 minute hold time.
- Samples collected by Eastern Analytical, Inc. (EAI) were collected in accordance with approved EPA procedures.



May 12, 2022

Vista Work Order No. 2204268

Ms. Jennifer Laramie
Eastern Analytical, Inc.
51 Antrim Avenue
Concord, NH 03301

Dear Ms. Laramie,

Enclosed are the results for the sample set received at Vista Analytical Laboratory on April 29, 2022 under your Project Name '242121 NH 5379'.

Vista Analytical Laboratory is committed to serving you effectively. If you require additional information, please contact me at 916-673-1520 or by email at jfox@vista-analytical.com.

Thank you for choosing Vista as part of your analytical support team.

Sincerely,

Jamie Fox
Laboratory Director



Vista Analytical Laboratory certifies that the report herein meets all the requirements set forth by NELAP for those applicable test methods. Results relate only to the samples as received by the laboratory. This report should not be reproduced except in full without the written approval of Vista.

Vista Work Order No. 2204268

Case Narrative

Sample Condition on Receipt:

Fourteen aqueous samples were received and stored securely in accordance with Vista standard operating procedures and EPA methodology. The samples were received in good condition and within the recommended temperature requirements. Sample ID discrepancies were noted for the samples between the container labels and the Chain-of-Custody (CoC). The sample IDs have been reported as listed on the CoC.

Analytical Notes:

PFAS Isotope Dilution/LC-MSMS Method Compliant with Table B-15 of DoD QSM 5.3 (Aqueous)

The following samples contained particulate and were centrifuged prior to extraction:

<u>Laboratory ID</u>	<u>Sample Name</u>
2204268-02	MW-3_20220425
2204268-03	MW-5_20220426
2204268-06	MW-12_20220425
2204268-07	MW-13_20220425
2204268-08	MW-14_20220426
2204268-10	MW-16_20220426

The samples were extracted and analyzed for a selected list of PFAS using Isotope Dilution and LC-MS/MS compliant with Table B-15 of DoD QSM 5.3. The results for PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Results for all other analytes include the linear isomers only.

Holding Times

The samples were extracted and analyzed within the hold times.

Quality Control

The Initial Calibration and Continuing Calibration Verifications met the method acceptance criteria.

A Method Blank and Ongoing Precision and Recovery (OPR) sample were extracted and analyzed with the preparation batch. No analytes were detected in the Method Blank above the Reporting Limits (RL). The OPR recoveries were within the method acceptance criteria.

The labeled standard recoveries for all QC and field samples were within the acceptance criteria.

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Sample Inventory Report



Vista Sample ID	Client Sample ID	Sampled	Received	Components/Containers
2204268-01	MW-2_20220426	26-Apr-22 14:02	29-Apr-22 09:43	Polypropylene, 250mL Polypropylene, 250mL
2204268-02	MW-3_20220425	25-Apr-22 11:42	29-Apr-22 09:43	Polypropylene, 250mL Polypropylene, 250mL
2204268-03	MW-5_20220426	26-Apr-22 16:05	29-Apr-22 09:43	Polypropylene, 250mL Polypropylene, 250mL
2204268-04	MW-6_20220427	27-Apr-22 09:09	29-Apr-22 09:43	Polypropylene, 250mL Polypropylene, 250mL
2204268-05	MW-11_20220427	27-Apr-22 08:42	29-Apr-22 09:43	Polypropylene, 250mL Polypropylene, 250mL
2204268-06	MW-12_20220425	25-Apr-22 13:58	29-Apr-22 09:43	Polypropylene, 250mL Polypropylene, 250mL
2204268-07	MW-13_20220425	25-Apr-22 13:32	29-Apr-22 09:43	Polypropylene, 250mL Polypropylene, 250mL
2204268-08	MW-14_20220426	26-Apr-22 15:50	29-Apr-22 09:43	Polypropylene, 250mL Polypropylene, 250mL
2204268-09	MW-15_20220427	27-Apr-22 08:15	29-Apr-22 09:43	Polypropylene, 250mL Polypropylene, 250mL
2204268-10	MW-16_20220426	26-Apr-22 13:15	29-Apr-22 09:43	Polypropylene, 250mL Polypropylene, 250mL
2204268-11	MW-23_20220426	26-Apr-22 14:55	29-Apr-22 09:43	Polypropylene, 250mL Polypropylene, 250mL
2204268-12	MW-24_20220426	26-Apr-22 14:35	29-Apr-22 09:43	Polypropylene, 250mL Polypropylene, 250mL
2204268-13	MW-25_20220425	25-Apr-22 08:46	29-Apr-22 09:43	Polypropylene, 250mL Polypropylene, 250mL
2204268-14	FB-01_20220427	27-Apr-22 09:15	29-Apr-22 09:43	Polypropylene, 250mL

ANALYTICAL RESULTS

Sample ID: Method Blank				PFAS Isotope Dilution Table B-15						
Client Data				Laboratory Data						
Name:	Eastern Analytical, Inc.	Matrix:	Aqueous	Lab Sample:	B22D263-BLK1	Column:	BEH C18			
Project:	242121 NH 5379									
Analyte	CAS Number	Conc. (ng/L)	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
PFBA	375-22-4	ND	4.00		B22D263	09-May-22	0.250 L	10-May-22 19:13	1	
PFPeA	2706-90-3	ND	4.00		B22D263	09-May-22	0.250 L	10-May-22 19:13	1	
PFBS	375-73-5	ND	4.00		B22D263	09-May-22	0.250 L	10-May-22 19:13	1	
PFHxA	307-24-4	ND	4.00		B22D263	09-May-22	0.250 L	10-May-22 19:13	1	
PFHpA	375-85-9	ND	4.00		B22D263	09-May-22	0.250 L	10-May-22 19:13	1	
PFHxS	355-46-4	ND	4.00		B22D263	09-May-22	0.250 L	10-May-22 19:13	1	
PFOA	335-67-1	ND	4.00		B22D263	09-May-22	0.250 L	10-May-22 19:13	1	
PFNA	375-95-1	ND	4.00		B22D263	09-May-22	0.250 L	10-May-22 19:13	1	
PFOS	1763-23-1	ND	4.00		B22D263	09-May-22	0.250 L	10-May-22 19:13	1	
Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
13C3-PFBA	IS	93.5	50 - 150		B22D263	09-May-22	0.250 L	10-May-22 19:13	1	
13C3-PFPeA	IS	101	50 - 150		B22D263	09-May-22	0.250 L	10-May-22 19:13	1	
13C3-PFBS	IS	111	50 - 150		B22D263	09-May-22	0.250 L	10-May-22 19:13	1	
13C2-PFHxA	IS	94.3	50 - 150		B22D263	09-May-22	0.250 L	10-May-22 19:13	1	
13C4-PFHpA	IS	106	50 - 150		B22D263	09-May-22	0.250 L	10-May-22 19:13	1	
13C3-PFHxS	IS	105	50 - 150		B22D263	09-May-22	0.250 L	10-May-22 19:13	1	
13C5-PFNA	IS	88.2	50 - 150		B22D263	09-May-22	0.250 L	10-May-22 19:13	1	
13C2-PFOA	IS	102	50 - 150		B22D263	09-May-22	0.250 L	10-May-22 19:13	1	
13C8-PFOS	IS	101	50 - 150		B22D263	09-May-22	0.250 L	10-May-22 19:13	1	

RL - Reporting limit

Results reported to RL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: OPR
PFAS Isotope Dilution Table B-15

Client Data					Laboratory Data						
Name:	Eastern Analytical, Inc.	Matrix:	Aqueous		Lab Sample:	B22D263-BS1	Column:	BEH C18			
Project:	242121 NH 5379										
Analyte	CAS Number	Amt Found (ng/L)	Spike Amt	% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	44.7	40.0	112	73 - 129		B22D263	09-May-22	0.250 L	10-May-22 19:23	1
PFPeA	2706-90-3	44.1	40.0	110	72 - 129		B22D263	09-May-22	0.250 L	10-May-22 19:23	1
PFBS	375-73-5	42.9	40.0	107	72 - 130		B22D263	09-May-22	0.250 L	10-May-22 19:23	1
PFHxA	307-24-4	42.3	40.0	106	72 - 129		B22D263	09-May-22	0.250 L	10-May-22 19:23	1
PFHpA	375-85-9	48.0	40.0	120	72 - 130		B22D263	09-May-22	0.250 L	10-May-22 19:23	1
PFHxS	355-46-4	42.5	40.0	106	68 - 131		B22D263	09-May-22	0.250 L	10-May-22 19:23	1
PFOA	335-67-1	45.7	40.0	114	71 - 133		B22D263	09-May-22	0.250 L	10-May-22 19:23	1
PFNA	375-95-1	45.4	40.0	113	69 - 130		B22D263	09-May-22	0.250 L	10-May-22 19:23	1
PFOS	1763-23-1	42.9	40.0	107	65 - 140		B22D263	09-May-22	0.250 L	10-May-22 19:23	1
Labeled Standards		Type		% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA		IS		94.9	50 - 150		B22D263	09-May-22	0.250 L	10-May-22 19:23	1
13C3-PFPeA		IS		96.9	50 - 150		B22D263	09-May-22	0.250 L	10-May-22 19:23	1
13C3-PFBS		IS		114	50 - 150		B22D263	09-May-22	0.250 L	10-May-22 19:23	1
13C2-PFHxA		IS		95.8	50 - 150		B22D263	09-May-22	0.250 L	10-May-22 19:23	1
13C4-PFHpA		IS		95.8	50 - 150		B22D263	09-May-22	0.250 L	10-May-22 19:23	1
13C3-PFHxS		IS		99.5	50 - 150		B22D263	09-May-22	0.250 L	10-May-22 19:23	1
13C5-PFNA		IS		95.5	50 - 150		B22D263	09-May-22	0.250 L	10-May-22 19:23	1
13C2-PFOA		IS		96.0	50 - 150		B22D263	09-May-22	0.250 L	10-May-22 19:23	1
13C8-PFOS		IS		106	50 - 150		B22D263	09-May-22	0.250 L	10-May-22 19:23	1

Sample ID: MW-2_20220426
PFAS Isotope Dilution Table B-15

Client Data				Laboratory Data			
Name:	Eastern Analytical, Inc.	Matrix:	Aqueous	Lab Sample:	2204268-01	Column:	BEH C18
Project:	242121 NH 5379	Date Collected:	26-Apr-22 14:02	Date Received:	29-Apr-22 09:43		
Location:	242121						

Analyte	CAS Number	Conc. (ng/L)	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	ND	4.00		B22D263	09-May-22	0.254 L	10-May-22 20:05	1
PFPeA	2706-90-3	ND	4.00		B22D263	09-May-22	0.254 L	10-May-22 20:05	1
PFBS	375-73-5	ND	4.00		B22D263	09-May-22	0.254 L	10-May-22 20:05	1
PFHxA	307-24-4	ND	4.00		B22D263	09-May-22	0.254 L	10-May-22 20:05	1
PFHpA	375-85-9	ND	4.00		B22D263	09-May-22	0.254 L	10-May-22 20:05	1
PFHxS	355-46-4	ND	4.00		B22D263	09-May-22	0.254 L	10-May-22 20:05	1
PFOA	335-67-1	ND	4.00		B22D263	09-May-22	0.254 L	10-May-22 20:05	1
PFNA	375-95-1	ND	4.00		B22D263	09-May-22	0.254 L	10-May-22 20:05	1
PFOS	1763-23-1	ND	4.00		B22D263	09-May-22	0.254 L	10-May-22 20:05	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	84.9	50 - 150		B22D263	09-May-22	0.254 L	10-May-22 20:05	1
13C3-PFPeA	IS	99.9	50 - 150		B22D263	09-May-22	0.254 L	10-May-22 20:05	1
13C3-PFBS	IS	110	50 - 150		B22D263	09-May-22	0.254 L	10-May-22 20:05	1
13C2-PFHxA	IS	93.5	50 - 150		B22D263	09-May-22	0.254 L	10-May-22 20:05	1
13C4-PFHpA	IS	103	50 - 150		B22D263	09-May-22	0.254 L	10-May-22 20:05	1
13C3-PFHxS	IS	94.8	50 - 150		B22D263	09-May-22	0.254 L	10-May-22 20:05	1
13C5-PFNA	IS	86.5	50 - 150		B22D263	09-May-22	0.254 L	10-May-22 20:05	1
13C2-PFOA	IS	95.5	50 - 150		B22D263	09-May-22	0.254 L	10-May-22 20:05	1
13C8-PFOS	IS	96.3	50 - 150		B22D263	09-May-22	0.254 L	10-May-22 20:05	1

RL - Reporting limit

Results reported to RL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: MW-3_20220425
PFAS Isotope Dilution Table B-15

Client Data				Laboratory Data						
Name:	Eastern Analytical, Inc.	Matrix:	Aqueous	Lab Sample:	2204268-02	Column:	BEH C18			
Project:	242121 NH 5379	Date Collected:	25-Apr-22 11:42	Date Received:	29-Apr-22 09:43					
Location:	242121									

Analyte	CAS Number	Conc. (ng/L)	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	ND	4.00		B22D263	09-May-22	0.247 L	10-May-22 20:16	1
PFPeA	2706-90-3	ND	4.00		B22D263	09-May-22	0.247 L	10-May-22 20:16	1
PFBS	375-73-5	ND	4.00		B22D263	09-May-22	0.247 L	10-May-22 20:16	1
PFHxA	307-24-4	ND	4.00		B22D263	09-May-22	0.247 L	10-May-22 20:16	1
PFHpA	375-85-9	ND	4.00		B22D263	09-May-22	0.247 L	10-May-22 20:16	1
PFHxS	355-46-4	ND	4.00		B22D263	09-May-22	0.247 L	10-May-22 20:16	1
PFOA	335-67-1	ND	4.00		B22D263	09-May-22	0.247 L	10-May-22 20:16	1
PFNA	375-95-1	ND	4.00		B22D263	09-May-22	0.247 L	10-May-22 20:16	1
PFOS	1763-23-1	ND	4.00		B22D263	09-May-22	0.247 L	10-May-22 20:16	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	88.3	50 - 150		B22D263	09-May-22	0.247 L	10-May-22 20:16	1
13C3-PFPeA	IS	98.2	50 - 150		B22D263	09-May-22	0.247 L	10-May-22 20:16	1
13C3-PFBS	IS	102	50 - 150		B22D263	09-May-22	0.247 L	10-May-22 20:16	1
13C2-PFHxA	IS	93.2	50 - 150		B22D263	09-May-22	0.247 L	10-May-22 20:16	1
13C4-PFHpA	IS	98.8	50 - 150		B22D263	09-May-22	0.247 L	10-May-22 20:16	1
13C3-PFHxS	IS	93.4	50 - 150		B22D263	09-May-22	0.247 L	10-May-22 20:16	1
13C5-PFNA	IS	93.0	50 - 150		B22D263	09-May-22	0.247 L	10-May-22 20:16	1
13C2-PFOA	IS	80.4	50 - 150		B22D263	09-May-22	0.247 L	10-May-22 20:16	1
13C8-PFOS	IS	96.6	50 - 150		B22D263	09-May-22	0.247 L	10-May-22 20:16	1

RL - Reporting limit

Results reported to RL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: MW-5_20220426
PFAS Isotope Dilution Table B-15

Client Data				Laboratory Data			
Name:	Eastern Analytical, Inc.	Matrix:	Aqueous	Lab Sample:	2204268-03	Column:	BEH C18
Project:	242121 NH 5379	Date Collected:	26-Apr-22 16:05	Date Received:	29-Apr-22 09:43		
Location:	242121						

Analyte	CAS Number	Conc. (ng/L)	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	ND	4.00		B22D263	09-May-22	0.248 L	10-May-22 20:26	1
PFPeA	2706-90-3	ND	4.00		B22D263	09-May-22	0.248 L	10-May-22 20:26	1
PFBS	375-73-5	ND	4.00		B22D263	09-May-22	0.248 L	10-May-22 20:26	1
PFHxA	307-24-4	ND	4.00		B22D263	09-May-22	0.248 L	10-May-22 20:26	1
PFHpA	375-85-9	ND	4.00		B22D263	09-May-22	0.248 L	10-May-22 20:26	1
PFHxS	355-46-4	ND	4.00		B22D263	09-May-22	0.248 L	10-May-22 20:26	1
PFOA	335-67-1	ND	4.00		B22D263	09-May-22	0.248 L	10-May-22 20:26	1
PFNA	375-95-1	ND	4.00		B22D263	09-May-22	0.248 L	10-May-22 20:26	1
PFOS	1763-23-1	ND	4.00		B22D263	09-May-22	0.248 L	10-May-22 20:26	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	84.0	50 - 150		B22D263	09-May-22	0.248 L	10-May-22 20:26	1
13C3-PFPeA	IS	94.9	50 - 150		B22D263	09-May-22	0.248 L	10-May-22 20:26	1
13C3-PFBS	IS	108	50 - 150		B22D263	09-May-22	0.248 L	10-May-22 20:26	1
13C2-PFHxA	IS	98.1	50 - 150		B22D263	09-May-22	0.248 L	10-May-22 20:26	1
13C4-PFHpA	IS	105	50 - 150		B22D263	09-May-22	0.248 L	10-May-22 20:26	1
13C3-PFHxS	IS	103	50 - 150		B22D263	09-May-22	0.248 L	10-May-22 20:26	1
13C5-PFNA	IS	97.5	50 - 150		B22D263	09-May-22	0.248 L	10-May-22 20:26	1
13C2-PFOA	IS	99.2	50 - 150		B22D263	09-May-22	0.248 L	10-May-22 20:26	1
13C8-PFOS	IS	101	50 - 150		B22D263	09-May-22	0.248 L	10-May-22 20:26	1

RL - Reporting limit

Results reported to RL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: MW-6_20220427
PFAS Isotope Dilution Table B-15

Client Data				Laboratory Data						
Name:	Eastern Analytical, Inc.	Matrix:	Aqueous	Lab Sample:	2204268-04	Column:	BEH C18			
Project:	242121 NH 5379	Date Collected:	27-Apr-22 09:09	Date Received:	29-Apr-22 09:43					
Location:	242121									

Analyte	CAS Number	Conc. (ng/L)	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	ND	4.00		B22D263	09-May-22	0.252 L	10-May-22 20:37	1
PFPeA	2706-90-3	ND	4.00		B22D263	09-May-22	0.252 L	10-May-22 20:37	1
PFBS	375-73-5	ND	4.00		B22D263	09-May-22	0.252 L	10-May-22 20:37	1
PFHxA	307-24-4	ND	4.00		B22D263	09-May-22	0.252 L	10-May-22 20:37	1
PFHpA	375-85-9	ND	4.00		B22D263	09-May-22	0.252 L	10-May-22 20:37	1
PFHxS	355-46-4	ND	4.00		B22D263	09-May-22	0.252 L	10-May-22 20:37	1
PFOA	335-67-1	ND	4.00		B22D263	09-May-22	0.252 L	10-May-22 20:37	1
PFNA	375-95-1	ND	4.00		B22D263	09-May-22	0.252 L	10-May-22 20:37	1
PFOS	1763-23-1	ND	4.00		B22D263	09-May-22	0.252 L	10-May-22 20:37	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	96.5	50 - 150		B22D263	09-May-22	0.252 L	10-May-22 20:37	1
13C3-PFPeA	IS	103	50 - 150		B22D263	09-May-22	0.252 L	10-May-22 20:37	1
13C3-PFBS	IS	98.5	50 - 150		B22D263	09-May-22	0.252 L	10-May-22 20:37	1
13C2-PFHxA	IS	98.7	50 - 150		B22D263	09-May-22	0.252 L	10-May-22 20:37	1
13C4-PFHpA	IS	105	50 - 150		B22D263	09-May-22	0.252 L	10-May-22 20:37	1
13C3-PFHxS	IS	92.9	50 - 150		B22D263	09-May-22	0.252 L	10-May-22 20:37	1
13C5-PFNA	IS	102	50 - 150		B22D263	09-May-22	0.252 L	10-May-22 20:37	1
13C2-PFOA	IS	106	50 - 150		B22D263	09-May-22	0.252 L	10-May-22 20:37	1
13C8-PFOS	IS	98.1	50 - 150		B22D263	09-May-22	0.252 L	10-May-22 20:37	1

RL - Reporting limit

Results reported to RL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: MW-11_20220427				PFAS Isotope Dilution Table B-15							
Client Data				Laboratory Data							
Name:	Eastern Analytical, Inc.		Matrix:	Aqueous		Lab Sample:	2204268-05		Column:	BEH C18	
Project:	242121 NH 5379		Date Collected:	27-Apr-22 08:42		Date Received:	29-Apr-22 09:43				
Location:	242121										
Analyte	CAS Number	Conc. (ng/L)	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution		
PFBA	375-22-4	ND	4.00		B22D263	09-May-22	0.249 L	10-May-22 20:47	1		
PFPeA	2706-90-3	ND	4.00		B22D263	09-May-22	0.249 L	10-May-22 20:47	1		
PFBS	375-73-5	ND	4.00		B22D263	09-May-22	0.249 L	10-May-22 20:47	1		
PFHxA	307-24-4	ND	4.00		B22D263	09-May-22	0.249 L	10-May-22 20:47	1		
PFHpA	375-85-9	ND	4.00		B22D263	09-May-22	0.249 L	10-May-22 20:47	1		
PFHxS	355-46-4	ND	4.00		B22D263	09-May-22	0.249 L	10-May-22 20:47	1		
PFOA	335-67-1	ND	4.00		B22D263	09-May-22	0.249 L	10-May-22 20:47	1		
PFNA	375-95-1	ND	4.00		B22D263	09-May-22	0.249 L	10-May-22 20:47	1		
PFOS	1763-23-1	ND	4.00		B22D263	09-May-22	0.249 L	10-May-22 20:47	1		
Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution		
13C3-PFBA	IS	90.4	50 - 150		B22D263	09-May-22	0.249 L	10-May-22 20:47	1		
13C3-PFPeA	IS	95.0	50 - 150		B22D263	09-May-22	0.249 L	10-May-22 20:47	1		
13C3-PFBS	IS	97.4	50 - 150		B22D263	09-May-22	0.249 L	10-May-22 20:47	1		
13C2-PFHxA	IS	90.0	50 - 150		B22D263	09-May-22	0.249 L	10-May-22 20:47	1		
13C4-PFHpA	IS	94.7	50 - 150		B22D263	09-May-22	0.249 L	10-May-22 20:47	1		
13C3-PFHxS	IS	93.2	50 - 150		B22D263	09-May-22	0.249 L	10-May-22 20:47	1		
13C5-PFNA	IS	89.6	50 - 150		B22D263	09-May-22	0.249 L	10-May-22 20:47	1		
13C2-PFOA	IS	88.4	50 - 150		B22D263	09-May-22	0.249 L	10-May-22 20:47	1		
13C8-PFOS	IS	99.8	50 - 150		B22D263	09-May-22	0.249 L	10-May-22 20:47	1		

RL - Reporting limit

Results reported to RL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: MW-12_20220425
PFAS Isotope Dilution Table B-15

Client Data				Laboratory Data			
Name:	Eastern Analytical, Inc.	Matrix:	Aqueous	Lab Sample:	2204268-06	Column:	BEH C18
Project:	242121 NH 5379	Date Collected:	25-Apr-22 13:58	Date Received:	29-Apr-22 09:43		
Location:	242121						

Analyte	CAS Number	Conc. (ng/L)	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	ND	4.00		B22D263	09-May-22	0.244 L	10-May-22 20:58	1
PFPeA	2706-90-3	ND	4.00		B22D263	09-May-22	0.244 L	10-May-22 20:58	1
PFBS	375-73-5	ND	4.00		B22D263	09-May-22	0.244 L	10-May-22 20:58	1
PFHxA	307-24-4	ND	4.00		B22D263	09-May-22	0.244 L	10-May-22 20:58	1
PFHpA	375-85-9	ND	4.00		B22D263	09-May-22	0.244 L	10-May-22 20:58	1
PFHxS	355-46-4	ND	4.00		B22D263	09-May-22	0.244 L	10-May-22 20:58	1
PFOA	335-67-1	ND	4.00		B22D263	09-May-22	0.244 L	10-May-22 20:58	1
PFNA	375-95-1	ND	4.00		B22D263	09-May-22	0.244 L	10-May-22 20:58	1
PFOS	1763-23-1	ND	4.00		B22D263	09-May-22	0.244 L	10-May-22 20:58	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	81.7	50 - 150		B22D263	09-May-22	0.244 L	10-May-22 20:58	1
13C3-PFPeA	IS	96.2	50 - 150		B22D263	09-May-22	0.244 L	10-May-22 20:58	1
13C3-PFBS	IS	104	50 - 150		B22D263	09-May-22	0.244 L	10-May-22 20:58	1
13C2-PFHxA	IS	90.3	50 - 150		B22D263	09-May-22	0.244 L	10-May-22 20:58	1
13C4-PFHpA	IS	99.9	50 - 150		B22D263	09-May-22	0.244 L	10-May-22 20:58	1
13C3-PFHxS	IS	88.1	50 - 150		B22D263	09-May-22	0.244 L	10-May-22 20:58	1
13C5-PFNA	IS	91.1	50 - 150		B22D263	09-May-22	0.244 L	10-May-22 20:58	1
13C2-PFOA	IS	93.6	50 - 150		B22D263	09-May-22	0.244 L	10-May-22 20:58	1
13C8-PFOS	IS	97.1	50 - 150		B22D263	09-May-22	0.244 L	10-May-22 20:58	1

RL - Reporting limit

Results reported to RL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: MW-13_20220425					PFAS Isotope Dilution Table B-15						
Client Data				Laboratory Data							
Name:	Eastern Analytical, Inc.		Matrix:	Aqueous		Lab Sample:	2204268-07		Column:	BEH C18	
Project:	242121 NH 5379		Date Collected:	25-Apr-22 13:32		Date Received:	29-Apr-22 09:43				
Location:	242121										
Analyte	CAS Number	Conc. (ng/L)	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution		
PFBA	375-22-4	ND	4.00		B22D263	09-May-22	0.247 L	10-May-22 21:09	1		
PFPeA	2706-90-3	ND	4.00		B22D263	09-May-22	0.247 L	10-May-22 21:09	1		
PFBS	375-73-5	ND	4.00		B22D263	09-May-22	0.247 L	10-May-22 21:09	1		
PFHxA	307-24-4	ND	4.00		B22D263	09-May-22	0.247 L	10-May-22 21:09	1		
PFHpA	375-85-9	ND	4.00		B22D263	09-May-22	0.247 L	10-May-22 21:09	1		
PFHxS	355-46-4	ND	4.00		B22D263	09-May-22	0.247 L	10-May-22 21:09	1		
PFOA	335-67-1	ND	4.00		B22D263	09-May-22	0.247 L	10-May-22 21:09	1		
PFNA	375-95-1	ND	4.00		B22D263	09-May-22	0.247 L	10-May-22 21:09	1		
PFOS	1763-23-1	ND	4.00		B22D263	09-May-22	0.247 L	10-May-22 21:09	1		
Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution		
13C3-PFBA	IS	92.8	50 - 150		B22D263	09-May-22	0.247 L	10-May-22 21:09	1		
13C3-PFPeA	IS	94.1	50 - 150		B22D263	09-May-22	0.247 L	10-May-22 21:09	1		
13C3-PFBS	IS	105	50 - 150		B22D263	09-May-22	0.247 L	10-May-22 21:09	1		
13C2-PFHxA	IS	94.0	50 - 150		B22D263	09-May-22	0.247 L	10-May-22 21:09	1		
13C4-PFHpA	IS	97.3	50 - 150		B22D263	09-May-22	0.247 L	10-May-22 21:09	1		
13C3-PFHxS	IS	90.7	50 - 150		B22D263	09-May-22	0.247 L	10-May-22 21:09	1		
13C5-PFNA	IS	91.5	50 - 150		B22D263	09-May-22	0.247 L	10-May-22 21:09	1		
13C2-PFOA	IS	89.3	50 - 150		B22D263	09-May-22	0.247 L	10-May-22 21:09	1		
13C8-PFOS	IS	93.1	50 - 150		B22D263	09-May-22	0.247 L	10-May-22 21:09	1		

RL - Reporting limit

Results reported to RL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: MW-14_20220426
PFAS Isotope Dilution Table B-15

Client Data				Laboratory Data			
Name:	Eastern Analytical, Inc.	Matrix:	Aqueous	Lab Sample:	2204268-08	Column:	BEH C18
Project:	242121 NH 5379	Date Collected:	26-Apr-22 15:50	Date Received:	29-Apr-22 09:43		
Location:	242121						

Analyte	CAS Number	Conc. (ng/L)	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	ND	4.00		B22D263	09-May-22	0.251 L	10-May-22 21:51	1
PFPeA	2706-90-3	ND	4.00		B22D263	09-May-22	0.251 L	10-May-22 21:51	1
PFBS	375-73-5	ND	4.00		B22D263	09-May-22	0.251 L	10-May-22 21:51	1
PFHxA	307-24-4	ND	4.00		B22D263	09-May-22	0.251 L	10-May-22 21:51	1
PFHpA	375-85-9	ND	4.00		B22D263	09-May-22	0.251 L	10-May-22 21:51	1
PFHxS	355-46-4	ND	4.00		B22D263	09-May-22	0.251 L	10-May-22 21:51	1
PFOA	335-67-1	ND	4.00		B22D263	09-May-22	0.251 L	10-May-22 21:51	1
PFNA	375-95-1	ND	4.00		B22D263	09-May-22	0.251 L	10-May-22 21:51	1
PFOS	1763-23-1	ND	4.00		B22D263	09-May-22	0.251 L	10-May-22 21:51	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	84.6	50 - 150		B22D263	09-May-22	0.251 L	10-May-22 21:51	1
13C3-PFPeA	IS	91.5	50 - 150		B22D263	09-May-22	0.251 L	10-May-22 21:51	1
13C3-PFBS	IS	107	50 - 150		B22D263	09-May-22	0.251 L	10-May-22 21:51	1
13C2-PFHxA	IS	88.6	50 - 150		B22D263	09-May-22	0.251 L	10-May-22 21:51	1
13C4-PFHpA	IS	89.0	50 - 150		B22D263	09-May-22	0.251 L	10-May-22 21:51	1
13C3-PFHxS	IS	94.9	50 - 150		B22D263	09-May-22	0.251 L	10-May-22 21:51	1
13C5-PFNA	IS	86.9	50 - 150		B22D263	09-May-22	0.251 L	10-May-22 21:51	1
13C2-PFOA	IS	88.8	50 - 150		B22D263	09-May-22	0.251 L	10-May-22 21:51	1
13C8-PFOS	IS	93.6	50 - 150		B22D263	09-May-22	0.251 L	10-May-22 21:51	1

RL - Reporting limit

Results reported to RL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: MW-15_20220427
PFAS Isotope Dilution Table B-15

Client Data				Laboratory Data			
Name:	Eastern Analytical, Inc.	Matrix:	Aqueous	Lab Sample:	2204268-09	Column:	BEH C18
Project:	242121 NH 5379	Date Collected:	27-Apr-22 08:15	Date Received:	29-Apr-22 09:43		
Location:	242121						

Analyte	CAS Number	Conc. (ng/L)	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	ND	4.00		B22D263	09-May-22	0.253 L	10-May-22 22:01	1
PFPeA	2706-90-3	ND	4.00		B22D263	09-May-22	0.253 L	10-May-22 22:01	1
PFBS	375-73-5	ND	4.00		B22D263	09-May-22	0.253 L	10-May-22 22:01	1
PFHxA	307-24-4	ND	4.00		B22D263	09-May-22	0.253 L	10-May-22 22:01	1
PFHpA	375-85-9	ND	4.00		B22D263	09-May-22	0.253 L	10-May-22 22:01	1
PFHxS	355-46-4	ND	4.00		B22D263	09-May-22	0.253 L	10-May-22 22:01	1
PFOA	335-67-1	ND	4.00		B22D263	09-May-22	0.253 L	10-May-22 22:01	1
PFNA	375-95-1	ND	4.00		B22D263	09-May-22	0.253 L	10-May-22 22:01	1
PFOS	1763-23-1	ND	4.00		B22D263	09-May-22	0.253 L	10-May-22 22:01	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	92.2	50 - 150		B22D263	09-May-22	0.253 L	10-May-22 22:01	1
13C3-PFPeA	IS	100	50 - 150		B22D263	09-May-22	0.253 L	10-May-22 22:01	1
13C3-PFBS	IS	113	50 - 150		B22D263	09-May-22	0.253 L	10-May-22 22:01	1
13C2-PFHxA	IS	95.4	50 - 150		B22D263	09-May-22	0.253 L	10-May-22 22:01	1
13C4-PFHpA	IS	101	50 - 150		B22D263	09-May-22	0.253 L	10-May-22 22:01	1
13C3-PFHxS	IS	99.0	50 - 150		B22D263	09-May-22	0.253 L	10-May-22 22:01	1
13C5-PFNA	IS	103	50 - 150		B22D263	09-May-22	0.253 L	10-May-22 22:01	1
13C2-PFOA	IS	93.0	50 - 150		B22D263	09-May-22	0.253 L	10-May-22 22:01	1
13C8-PFOS	IS	102	50 - 150		B22D263	09-May-22	0.253 L	10-May-22 22:01	1

RL - Reporting limit

Results reported to RL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: MW-16_20220426					PFAS Isotope Dilution Table B-15						
Client Data				Laboratory Data							
Name:	Eastern Analytical, Inc.		Matrix:	Aqueous		Lab Sample:	2204268-10		Column:	BEH C18	
Project:	242121 NH 5379		Date Collected:	26-Apr-22 13:15		Date Received:	29-Apr-22 09:43				
Location:	242121										
Analyte	CAS Number	Conc. (ng/L)	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution		
PFBA	375-22-4	ND	4.00		B22D263	09-May-22	0.253 L	10-May-22 22:12	1		
PFPeA	2706-90-3	ND	4.00		B22D263	09-May-22	0.253 L	10-May-22 22:12	1		
PFBS	375-73-5	ND	4.00		B22D263	09-May-22	0.253 L	10-May-22 22:12	1		
PFHxA	307-24-4	ND	4.00		B22D263	09-May-22	0.253 L	10-May-22 22:12	1		
PFHpA	375-85-9	ND	4.00		B22D263	09-May-22	0.253 L	10-May-22 22:12	1		
PFHxS	355-46-4	ND	4.00		B22D263	09-May-22	0.253 L	10-May-22 22:12	1		
PFOA	335-67-1	ND	4.00		B22D263	09-May-22	0.253 L	10-May-22 22:12	1		
PFNA	375-95-1	ND	4.00		B22D263	09-May-22	0.253 L	10-May-22 22:12	1		
PFOS	1763-23-1	ND	4.00		B22D263	09-May-22	0.253 L	10-May-22 22:12	1		
Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution		
13C3-PFBA	IS	93.1	50 - 150		B22D263	09-May-22	0.253 L	10-May-22 22:12	1		
13C3-PFPeA	IS	105	50 - 150		B22D263	09-May-22	0.253 L	10-May-22 22:12	1		
13C3-PFBS	IS	119	50 - 150		B22D263	09-May-22	0.253 L	10-May-22 22:12	1		
13C2-PFHxA	IS	97.3	50 - 150		B22D263	09-May-22	0.253 L	10-May-22 22:12	1		
13C4-PFHpA	IS	112	50 - 150		B22D263	09-May-22	0.253 L	10-May-22 22:12	1		
13C3-PFHxS	IS	109	50 - 150		B22D263	09-May-22	0.253 L	10-May-22 22:12	1		
13C5-PFNA	IS	102	50 - 150		B22D263	09-May-22	0.253 L	10-May-22 22:12	1		
13C2-PFOA	IS	109	50 - 150		B22D263	09-May-22	0.253 L	10-May-22 22:12	1		
13C8-PFOS	IS	98.0	50 - 150		B22D263	09-May-22	0.253 L	10-May-22 22:12	1		

RL - Reporting limit

Results reported to RL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: MW-23_20220426					PFAS Isotope Dilution Table B-15					
Client Data				Laboratory Data						
Name:	Eastern Analytical, Inc.		Matrix:	Aqueous		Lab Sample:	2204268-11		Column:	BEH C18
Project:	242121 NH 5379		Date Collected:	26-Apr-22 14:55		Date Received:	29-Apr-22 09:43			
Location:	242121									
Analyte	CAS Number	Conc. (ng/L)	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
PFBA	375-22-4	ND	4.00		B22D263	09-May-22	0.249 L	10-May-22 22:22	1	
PFPeA	2706-90-3	ND	4.00		B22D263	09-May-22	0.249 L	10-May-22 22:22	1	
PFBS	375-73-5	ND	4.00		B22D263	09-May-22	0.249 L	10-May-22 22:22	1	
PFHxA	307-24-4	ND	4.00		B22D263	09-May-22	0.249 L	10-May-22 22:22	1	
PFHpA	375-85-9	ND	4.00		B22D263	09-May-22	0.249 L	10-May-22 22:22	1	
PFHxS	355-46-4	ND	4.00		B22D263	09-May-22	0.249 L	10-May-22 22:22	1	
PFOA	335-67-1	ND	4.00		B22D263	09-May-22	0.249 L	10-May-22 22:22	1	
PFNA	375-95-1	ND	4.00		B22D263	09-May-22	0.249 L	10-May-22 22:22	1	
PFOS	1763-23-1	ND	4.00		B22D263	09-May-22	0.249 L	10-May-22 22:22	1	
Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
13C3-PFBA	IS	91.4	50 - 150		B22D263	09-May-22	0.249 L	10-May-22 22:22	1	
13C3-PFPeA	IS	94.9	50 - 150		B22D263	09-May-22	0.249 L	10-May-22 22:22	1	
13C3-PFBS	IS	107	50 - 150		B22D263	09-May-22	0.249 L	10-May-22 22:22	1	
13C2-PFHxA	IS	94.9	50 - 150		B22D263	09-May-22	0.249 L	10-May-22 22:22	1	
13C4-PFHpA	IS	99.5	50 - 150		B22D263	09-May-22	0.249 L	10-May-22 22:22	1	
13C3-PFHxS	IS	98.5	50 - 150		B22D263	09-May-22	0.249 L	10-May-22 22:22	1	
13C5-PFNA	IS	87.7	50 - 150		B22D263	09-May-22	0.249 L	10-May-22 22:22	1	
13C2-PFOA	IS	93.0	50 - 150		B22D263	09-May-22	0.249 L	10-May-22 22:22	1	
13C8-PFOS	IS	95.1	50 - 150		B22D263	09-May-22	0.249 L	10-May-22 22:22	1	

RL - Reporting limit

Results reported to RL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: MW-24_20220426					PFAS Isotope Dilution Table B-15						
Client Data				Laboratory Data							
Name:	Eastern Analytical, Inc.		Matrix:	Aqueous		Lab Sample:	2204268-12		Column:	BEH C18	
Project:	242121 NH 5379		Date Collected:	26-Apr-22 14:35		Date Received:	29-Apr-22 09:43				
Location:	242121										
Analyte	CAS Number	Conc. (ng/L)	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution		
PFBA	375-22-4	ND	4.00		B22D263	09-May-22	0.255 L	10-May-22 22:33	1		
PFPeA	2706-90-3	ND	4.00		B22D263	09-May-22	0.255 L	10-May-22 22:33	1		
PFBS	375-73-5	ND	4.00		B22D263	09-May-22	0.255 L	10-May-22 22:33	1		
PFHxA	307-24-4	ND	4.00		B22D263	09-May-22	0.255 L	10-May-22 22:33	1		
PFHpA	375-85-9	ND	4.00		B22D263	09-May-22	0.255 L	10-May-22 22:33	1		
PFHxS	355-46-4	ND	4.00		B22D263	09-May-22	0.255 L	10-May-22 22:33	1		
PFOA	335-67-1	ND	4.00		B22D263	09-May-22	0.255 L	10-May-22 22:33	1		
PFNA	375-95-1	ND	4.00		B22D263	09-May-22	0.255 L	10-May-22 22:33	1		
PFOS	1763-23-1	ND	4.00		B22D263	09-May-22	0.255 L	10-May-22 22:33	1		
Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution		
13C3-PFBA	IS	88.5	50 - 150		B22D263	09-May-22	0.255 L	10-May-22 22:33	1		
13C3-PFPeA	IS	98.9	50 - 150		B22D263	09-May-22	0.255 L	10-May-22 22:33	1		
13C3-PFBS	IS	99.8	50 - 150		B22D263	09-May-22	0.255 L	10-May-22 22:33	1		
13C2-PFHxA	IS	95.6	50 - 150		B22D263	09-May-22	0.255 L	10-May-22 22:33	1		
13C4-PFHpA	IS	96.3	50 - 150		B22D263	09-May-22	0.255 L	10-May-22 22:33	1		
13C3-PFHxS	IS	102	50 - 150		B22D263	09-May-22	0.255 L	10-May-22 22:33	1		
13C5-PFNA	IS	91.3	50 - 150		B22D263	09-May-22	0.255 L	10-May-22 22:33	1		
13C2-PFOA	IS	101	50 - 150		B22D263	09-May-22	0.255 L	10-May-22 22:33	1		
13C8-PFOS	IS	99.2	50 - 150		B22D263	09-May-22	0.255 L	10-May-22 22:33	1		

RL - Reporting limit

Results reported to RL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: MW-25_20220425					PFAS Isotope Dilution Table B-15					
Client Data				Laboratory Data						
Name:	Eastern Analytical, Inc.		Matrix:	Aqueous	Lab Sample:	2204268-13	Column:	BEH C18		
Project:	242121 NH 5379		Date Collected:	25-Apr-22 08:46	Date Received:	29-Apr-22 09:43				
Location:	242121									
Analyte	CAS Number	Conc. (ng/L)	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
PFBA	375-22-4	ND	4.00		B22D263	09-May-22	0.255 L	10-May-22 22:43	1	
PFPeA	2706-90-3	ND	4.00		B22D263	09-May-22	0.255 L	10-May-22 22:43	1	
PFBS	375-73-5	ND	4.00		B22D263	09-May-22	0.255 L	10-May-22 22:43	1	
PFHxA	307-24-4	ND	4.00		B22D263	09-May-22	0.255 L	10-May-22 22:43	1	
PFHpA	375-85-9	ND	4.00		B22D263	09-May-22	0.255 L	10-May-22 22:43	1	
PFHxS	355-46-4	ND	4.00		B22D263	09-May-22	0.255 L	10-May-22 22:43	1	
PFOA	335-67-1	ND	4.00		B22D263	09-May-22	0.255 L	10-May-22 22:43	1	
PFNA	375-95-1	ND	4.00		B22D263	09-May-22	0.255 L	10-May-22 22:43	1	
PFOS	1763-23-1	ND	4.00		B22D263	09-May-22	0.255 L	10-May-22 22:43	1	
Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
13C3-PFBA	IS	94.7	50 - 150		B22D263	09-May-22	0.255 L	10-May-22 22:43	1	
13C3-PFPeA	IS	97.8	50 - 150		B22D263	09-May-22	0.255 L	10-May-22 22:43	1	
13C3-PFBS	IS	101	50 - 150		B22D263	09-May-22	0.255 L	10-May-22 22:43	1	
13C2-PFHxA	IS	88.0	50 - 150		B22D263	09-May-22	0.255 L	10-May-22 22:43	1	
13C4-PFHpA	IS	95.0	50 - 150		B22D263	09-May-22	0.255 L	10-May-22 22:43	1	
13C3-PFHxS	IS	94.3	50 - 150		B22D263	09-May-22	0.255 L	10-May-22 22:43	1	
13C5-PFNA	IS	78.5	50 - 150		B22D263	09-May-22	0.255 L	10-May-22 22:43	1	
13C2-PFOA	IS	95.3	50 - 150		B22D263	09-May-22	0.255 L	10-May-22 22:43	1	
13C8-PFOS	IS	97.1	50 - 150		B22D263	09-May-22	0.255 L	10-May-22 22:43	1	

RL - Reporting limit

Results reported to RL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: FB-01_20220427
PFAS Isotope Dilution Table B-15

Client Data				Laboratory Data			
Name:	Eastern Analytical, Inc.	Matrix:	Aqueous	Lab Sample:	2204268-14	Column:	BEH C18
Project:	242121 NH 5379	Date Collected:	27-Apr-22 09:15	Date Received:	29-Apr-22 09:43		
Location:	242121						

Analyte	CAS Number	Conc. (ng/L)	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	ND	4.00		B22D263	09-May-22	0.241 L	10-May-22 22:54	1
PFPeA	2706-90-3	ND	4.00		B22D263	09-May-22	0.241 L	10-May-22 22:54	1
PFBS	375-73-5	ND	4.00		B22D263	09-May-22	0.241 L	10-May-22 22:54	1
PFHxA	307-24-4	ND	4.00		B22D263	09-May-22	0.241 L	10-May-22 22:54	1
PFHpA	375-85-9	ND	4.00		B22D263	09-May-22	0.241 L	10-May-22 22:54	1
PFHxS	355-46-4	ND	4.00		B22D263	09-May-22	0.241 L	10-May-22 22:54	1
PFOA	335-67-1	ND	4.00		B22D263	09-May-22	0.241 L	10-May-22 22:54	1
PFNA	375-95-1	ND	4.00		B22D263	09-May-22	0.241 L	10-May-22 22:54	1
PFOS	1763-23-1	ND	4.00		B22D263	09-May-22	0.241 L	10-May-22 22:54	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	89.9	50 - 150		B22D263	09-May-22	0.241 L	10-May-22 22:54	1
13C3-PFPeA	IS	100	50 - 150		B22D263	09-May-22	0.241 L	10-May-22 22:54	1
13C3-PFBS	IS	118	50 - 150		B22D263	09-May-22	0.241 L	10-May-22 22:54	1
13C2-PFHxA	IS	93.9	50 - 150		B22D263	09-May-22	0.241 L	10-May-22 22:54	1
13C4-PFHpA	IS	99.1	50 - 150		B22D263	09-May-22	0.241 L	10-May-22 22:54	1
13C3-PFHxS	IS	98.9	50 - 150		B22D263	09-May-22	0.241 L	10-May-22 22:54	1
13C5-PFNA	IS	96.0	50 - 150		B22D263	09-May-22	0.241 L	10-May-22 22:54	1
13C2-PFOA	IS	89.5	50 - 150		B22D263	09-May-22	0.241 L	10-May-22 22:54	1
13C8-PFOS	IS	85.5	50 - 150		B22D263	09-May-22	0.241 L	10-May-22 22:54	1

RL - Reporting limit

Results reported to RL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

DATA QUALIFIERS & ABBREVIATIONS

B	This compound was also detected in the method blank
Conc.	Concentration
CRS	Cleanup Recovery Standard
D	Dilution
DL	Detection Limit
E	The associated compound concentration exceeded the calibration range of the instrument
H	Recovery and/or RPD was outside laboratory acceptance limits
I	Chemical Interference
IS	Internal Standard
J	The amount detected is below the Reporting Limit/LOQ
LOD	Limit of Detection
LOQ	Limit of Quantitation
M	Estimated Maximum Possible Concentration (CA Region 2 projects only)
MDL	Method Detection Limit
NA	Not applicable
ND	Not Detected
OPR	Ongoing Precision and Recovery sample
P	The reported concentration may include contribution from chlorinated diphenyl ether(s).
Q	The ion transition ratio is outside of the acceptance criteria.
RL	Reporting Limit
RL	For 537.1, the reported RLs are the MRLs.
TEQ	Toxic Equivalency, sum of the toxic equivalency factors (TEF) multiplied by the sample concentrations.
TEQMax	TEQ calculation that uses the detection limit as the concentration for non-detects
TEQMin	TEQ calculation that uses zero as the concentration for non-detects
TEQRisk	TEQ calculation that uses ½ the detection limit as the concentration for non-detects
U	Not Detected (specific projects only)
*	See Cover Letter

Unless otherwise noted, solid sample results are reported in dry weight. Tissue samples are reported in wet weight.

Vista Analytical Laboratory Certifications

Accrediting Authority	Certificate Number
Alaska Department of Environmental Conservation	17-013
Arkansas Department of Environmental Quality	21-023-0
California Department of Health – ELAP	2892
DoD ELAP - A2LA Accredited - ISO/IEC 17025:2005	3091.01
Florida Department of Health	E87777
Hawaii Department of Health	N/A
Louisiana Department of Environmental Quality	01977
Maine Department of Health	2020018
Massachusetts Department of Environmental Protection	M-CA413
Michigan Department of Environmental Quality	9932
Minnesota Department of Health	2211390
New Hampshire Environmental Accreditation Program	207721
New Jersey Department of Environmental Protection	CA003
New York Department of Health	11411
Ohio Environmental Protection Agency	87778
Oregon Laboratory Accreditation Program	4042-021
Pennsylvania Department of Environmental Protection	018
Texas Commission on Environmental Quality	T104704189-22-13
Vermont Department of Health	VT-4042
Virginia Department of General Services	11276
Washington Department of Ecology	C584
Wisconsin Department of Natural Resources	998036160

Current certificates and lists of licensed parameters are located in the Quality Assurance office and are available upon request.

NELAP Accredited Test Methods

MATRIX: Air	
Description of Test	Method
Determination of Polychlorinated p- Dioxins & Polychlorinated Dibenzofurans	EPA 23
Polychlorinated Dibenzodioxins in Ambient Air by GC/HRMS	EPA TO-9A

MATRIX: Biological Tissue	
Description of Test	Method
Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS	EPA 1613B
Brominated Diphenyl Ethers by HRGC/HRMS	EPA 1614A
Chlorinated Biphenyl Congeners in Water, Soil, Sediment, and Tissue by GC/HRMS	EPA 1668A/C
Pesticides in Water, Soil, Sediment, Biosolids, and Tissue by HRGC/HRMS	EPA 1699
Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS	PFAS Isotope Dilution
Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans by GC/HRMS	EPA 8280A/B
Polychlorinated Dibenzodioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) by GC/HRMS	EPA 8290/8290A

MATRIX: Drinking Water	
Description of Test	Method
Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS	EPA 1613/1613B
Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS	PFAS Isotope Dilution
Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS	EPA 537.1
Determination of Per- and Polyfluoroalkyl Substances in Drinking Water by Isotope Dilution Anion Exchange Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry	EPA 533
Perfluorooctanesulfonate (PFOS) and Perfluorooctanoate (PFOA) - Method for Unfiltered Samples Using Solid Phase Extraction and Liquid Chromatography/Mass Spectrometry	ISO 25101 2009

MATRIX: Non-Potable Water	
Description of Test	Method
Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS	EPA 1613B
Brominated Diphenyl Ethers by HRGC/HRMS	EPA 1614A
Chlorinated Biphenyl Congeners in Water, Soil, Sediment, and Tissue by GC/HRMS	EPA 1668A/C
Pesticides in Water, Soil, Sediment, Biosolids, and Tissue by HRGC/HRMS	EPA 1699
Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS	PFAS Isotope Dilution
Dioxin by GC/HRMS	EPA 613
Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans by GC/HRMS	EPA 8280A/B
Polychlorinated Dibenzodioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) by GC/HRMS	EPA 8290/8290A

MATRIX: Solids	
Description of Test	Method
Tetra-Octa Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS	EPA 1613
Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS	EPA 1613B
Brominated Diphenyl Ethers by HRGC/HRMS	EPA 1614A
Chlorinated Biphenyl Congeners in Water, Soil, Sediment, and Tissue by GC/HRMS	EPA 1668A/C
Pesticides in Water, Soil, Sediment, Biosolids, and Tissue by HRGC/HRMS	EPA 1699
Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS	PFAS Isotope Dilution
Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans by GC/HRMS	EPA 8280A/B
Polychlorinated Dibenzodioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) by GC/HRMS	EPA 8290/8290A

CHAIN-OF-CUSTODY RECORD



Eastern Analytical, Inc.
professional laboratory and drilling service

2204268 2.8°C

EAI ID# 242121

Sample ID	Date Sampled	Matrix	aParameters	Sample Notes
MW-2_20220426	4/26/2022 14:02	aqueous	Subcontract - Perfluorinated Compounds EPA Method 537mod (9 Compounds)	
MW-3_20220425	4/25/2022 11:42	aqueous	Subcontract - Perfluorinated Compounds EPA Method 537mod (9 Compounds)	
MW-5_20220426	4/26/2022 16:05	aqueous	Subcontract - Perfluorinated Compounds EPA Method 537mod (9 Compounds)	
MW-6_20220427	4/27/2022 09:09	aqueous	Subcontract - Perfluorinated Compounds EPA Method 537mod (9 Compounds)	

EAI ID# 242121 Project State: NH
 Project ID: 5379
 Company Vista Analytical Laboratory
 Address 1104 Windfield Way
 Address El Dorado Hills, CA 95762
 Account #
 Phone # (916) 673-1520

Results Needed: Preferred Date: Standard
 RUSH Due Date: _____

QC Deliverables

A A+ B B+ C MA MCP

Notes about project:

Email login confirmation, pdf of results and invoice to customerservice@easternanalytical.com.

PFAS by Method 537 modified with Isotope Dilution. NHDES 9 Compound List. Report Sulfonic Acids
 Report std project RLS (#2104311) ^{last wo}
 ~ 4 ng/L for all compounds -

PO #: 57276 EAI ID# 242121

Data Deliverable (circle) **SHA**
 Excel NH EMD **EQUIS** ME EGAD

Call prior to analyzing, if RUSH charges will be applied.

Samples Collected by: [Signature] 4/28/22 1600 VPS
 Relinquished by _____ Date/Time _____ Received by _____
 URS 04/29/22 0943 Kelia Wadsworth 04/29/22 0943
 Relinquished by _____ Date/Time _____ Received by _____

Eastern Analytical, Inc. 51 Antrim Ave Concord, NH 03301 Phone: (603)228-0525 1-800-287-0525 customerservice@easternanalytical.com

As a subcontract lab to EAI, you will defend, indemnify and hold Eastern Analytical, Inc., its officers, employees, and agents harmless from and against any and all liability, loss, expense or claims for injury or damage arising out of the performance against this chain of custody but only in proportion to and to the extent such liability, loss, expense, or claims for injury or damages are caused by or result from the negligent or intentional acts or omissions of you as a subcontract lab, your officers, agents or employees

CHAIN-OF-CUSTODY RECORD



Eastern Analytical, Inc.
professional laboratory and drilling service

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EAI ID# **242121**

Page 2

2204268

Sample ID	Date Sampled	Matrix	aParameters	Sample Notes
MW-11_20220427	4/27/2022 08:42	aqueous	Subcontract - Perfluorinated Compounds EPA Method 537mod (9 Compounds)	
MW-12_20220425	4/25/2022 13:58	aqueous	Subcontract - Perfluorinated Compounds EPA Method 537mod (9 Compounds)	
MW-13_20220425	4/25/2022 13:32	aqueous	Subcontract - Perfluorinated Compounds EPA Method 537mod (9 Compounds)	
MW-14_20220426	4/26/2022 15:50	aqueous	Subcontract - Perfluorinated Compounds EPA Method 537mod (9 Compounds)	

EAI ID# **242121** Project State: NH
 Project ID: 5379
 Company Vista Analytical Laboratory
 Address 1104 Windfield Way
 Address El Dorado Hills, CA 95762
 Account #
 Phone # (916) 673-1520

Results Needed: Preferred Date: Standard

RUSH Due Date: _____

QC Deliverables

A A+ B B+ C MA MCP

Notes about project:

Email login confirmation, pdf of results and invoice to customerservice@easternanalytical.com.

PFAS by Method 537 modified with Isotope Dilution. NHDES 9 Compound List. Report Sulfonic Acids

PO #: 57276

EAI ID# **242121**

Data Deliverable (circle)

Excel NH EMD **EQUS** ME EGAD

Call prior to analyzing, if RUSH charges will be applied.

Samples Collected by: [Signature] 4/28/22 7600 UPS

Relinquished by Date/Time Received by
 UPS 04/29/22 0943 Keliah Wadsworth 04/29/22 0943

Relinquished by Date/Time Received by

Eastern Analytical, Inc. 51 Antrim Ave Concord, NH 03301 Phone: (603)228-0525 1-800-287-0525 customerservice@easternanalytical.com

As a subcontract lab to EAI, you will defend, indemnify and hold Eastern Analytical, Inc., its officers, employees, and agents harmless from and against any and all liability, loss, expense or claims for injury or damage arising out of the performance against this chain of custody but only in proportion to and to the extent such liability, loss, expense, or claims for injury or damages are caused by or result from the negligent or intentional acts or omissions of you as a subcontract lab, your officers, agents or employees

Work Order 2204268

CHAIN-OF-CUSTODY RECORD



Eastern Analytical, Inc.
professional laboratory and drilling services

EAI ID# **242121**

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2204268

Sample ID	Date Sampled	Matrix	aParameters	Sample Notes
MW-15_20220427	4/27/2022 08:15	aqueous	Subcontract - Perfluorinated Compounds EPA Method 537mod (9 Compounds)	
MW-16_20220426	4/26/2022 13:15	aqueous	Subcontract - Perfluorinated Compounds EPA Method 537mod (9 Compounds)	
MW-23_20220426	4/26/2022 14:55	aqueous	Subcontract - Perfluorinated Compounds EPA Method 537mod (9 Compounds)	
MW-24_20220426	4/26/2022 14:35	aqueous	Subcontract - Perfluorinated Compounds EPA Method 537mod (9 Compounds)	

EAI ID# **242121**

Project State: NH

Project ID: 5379

Company Vista Analytical Laboratory

Address 1104 Windfield Way

Address El Dorado Hills, CA 95762

Account #

Phone # (916) 673-1520

Results Needed: Preferred Date: Standard

RUSH Due Date: _____

QC Deliverables

A A+ B B+ C MA MCP

Notes about project:

Email login confirmation, pdf of results and invoice to customerservice@easternanalytical.com.

PFAS by Method 537 modified with Isotope Dilution. NHDES 9 Compound List. Report Sulfonic Acids

PO #: 57276

EAI ID# **242121**

Data Deliverable (circle)

Excel NH EMD **EQUIS** ME EGAD

Call prior to analyzing, if RUSH charges will be applied.

Samples Collected by: [Signature] 4/28/22 1000 UPS

Relinquished by: [Signature] Date/Time Received by

UPS 04/29/22 0943 Kellie Wadsworth 04/29/22 0943

Relinquished by Date/Time Received by

Eastern Analytical, Inc. 51 Antrim Ave Concord, NH 03301

Phone: (603)228-0525

1-800-287-0525

customerservice@easternanalytical.com

As a subcontract lab to EAI, you will defend, indemnify and hold Eastern Analytical, Inc., its officers, employees, and agents harmless from and against any and all liability, loss, expense or claims for injury or damage arising out of the performance against this chain of custody but only in proportion to and to the extent such liability, loss, expense, or claims for injury or damages are caused by or result from the negligent or intention acts or omissions of you as a subcontract lab, your officers, agents or employees

Work Order 2204268

CHAIN-OF-CUSTODY RECORD

EAI ID# **242121**

Page 4

2204268

Sample ID	Date Sampled	Matrix	aParameters	Sample Notes
MW-25_20220425	4/25/2022 08:46	aqueous	Subcontract - Perfluorinated Compounds EPA Method 537mod (9 Compounds)	
FB-01_202204227	4/27/2022 09:15	aqueous	Subcontract - Perfluorinated Compounds EPA Method 537mod (9 Compounds)	

EAI ID# **242121** Project State: NH
 Project ID: 5379
 Company Vista Analytical Laboratory
 Address 1104 Windfield Way
 Address El Dorado Hills, CA 95762
 Account #
 Phone # (916) 673-1520

Results Needed: Preferred Date: Standard
 RUSH Due Date: _____
QC Deliverables
 A A+ B B+ C MA MCP
Notes about project:
 Email login confirmation, pdf of results and invoice to customerservice@easternanalytical.com.
 PFAS by Method 537 modified with Isotope Dilution. NHDES 9 Compound List. Report Sulfonic Acids

PO #: 57276 EAI ID# **242121**
Data Deliverable (circle)
 Excel NH EMD **EQUIS** ME EGAD
 Call prior to analyzing, if RUSH charges will be applied.
 Samples Collected by: _____ 4/28/22 1600 VPS
 Relinquished by _____ Date/Time _____ Received by _____
 LRS 04/29/22 0943 Kera Wadsworth 04/29/22 0943
 Relinquished by _____ Date/Time _____ Received by _____

Eastern Analytical, Inc. 51 Antrim Ave Concord, NH 03301 Phone: (603)228-0525 1-800-287-0525 customerservice@easternanalytical.com

Sample Log-In Checklist

Page # 1 of 1

Vista Work Order #: 2204268 TAT 14

Samples Arrival:	Date/Time <u>04/29/22 0943</u>	Initials: <u>KW</u>	Location: <u>WR-2</u>
			Shelf/Rack: <u>N/A</u>
Delivered By:	FedEx	<u>UPS</u>	On Trac
		GLS	DHL
		Hand Delivered	Other
Preservation:	<u>Ice</u>	Blue Ice	Techni Ice
		Dry Ice	None
Temp °C: <u>2.9</u> (uncorrected)	Probe used: Y / <u>N</u>		Thermometer ID: <u>TR-3</u>
Temp °C: <u>2.7 2.8*</u> (corrected)			

*KW 04/29/22

	YES	NO	NA
Shipping Container(s) Intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Shipping Custody Seals Intact?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Airbill <u>3 of 3</u> Trk # <u>1Z X46 599 019382 4083</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Shipping Documentation Present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Shipping Container	Vista	<u>Client</u>	Retain
		<u>Return</u>	Dispose
Chain of Custody / Sample Documentation Present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Chain of Custody / Sample Documentation Complete?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Holding Time Acceptable?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Logged In:	Date/Time <u>04/29/22 1004</u>	Initials: <u>WWS</u>	Location: <u>R-13, WR-2</u>
			Shelf/Rack: <u>2-2, B-0</u>
COC Anomaly/Sample Acceptance Form completed?			<input checked="" type="checkbox"/>

Comments:

	Yes	No	NA
Sample Container Intact?	✓		
Sample Custody Seals Intact?			✓
Adequate Sample Volume?	✓		
Container Type Appropriate for Analysis(es)	✓		

Comments:
 Ⓐ The part underlined is not listed on sample label
 Ⓓ The sample label ID is not legible
 Ⓒ Part of the sample data is not legible, time reconciled.
 Ⓗ Sample contains light rusty tint.
 Ⓔ Sample contains approximately 5% particulate
 Ⓕ No back up volume

Preservation Documented: Na₂S₂O₃ Trizma NH₄CH₃CO₂ None Other

Verified by/Date: KAO/29/22

	Yes	No	NA
Sample Container Intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample Custody Seals Intact?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Adequate Sample Volume?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Container Type Appropriate for Analysis(es)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Comments:
 Ⓐ The part underlined is not listed on sample label
 Ⓐ The sample label ID is not legible
 Ⓒ Part of the sample date is not legible, time reconstructed.
 Ⓓ Sample contains light rusty tint.
 Ⓔ Sample contains approximately 5% particulate
 Ⓕ No back up volume

Preservation Documented: Na2S2O3 Trizma NH4CH3CO2 None Other

Verified by/Date: KA 04/29/22



ANOMALY FORM

Vista Work Order

2204268

Initial/Date The following checked issues were noted during sample receipt and login:

- 1. The samples were received out of temperature at (WI-PHT): _____
Was Ice present: Yes No Melted Blue Ice
- 2. The Chain-of-Custody (CoC) was not relinquished properly.
- 3. The CoC did not include collection time(s). 00:00 will be used unless notified otherwise.
- 4. The sample(s) did not include a sample collection time. All or Sample Name: _____
- WOS 04/29/22 5. A sample ID discrepancy was found. See the Reconciliation report.
The CoC Sample ID will be used unless notified otherwise.
- 6. A sample date and/or time discrepancy was found. See the Reconciliation report.
The CoC Sample date/time will be used unless notified otherwise.
- 7. The CoC did not include a sample matrix. The following sample matrix will be used: _____
- 8. Insufficient volume received for analysis. All or Sample Name: _____
- 9. The backup bottle was received broken. Sample Name: _____
- 10. CoC not received, illegible or destroyed.
- 11. The sample(s) were received out of holding time. All or Sample Name: _____
- 12. The CoC did not include an analysis. All or Sample Name: _____
- 13. Sample(s) received without collection date. All or Sample Name: _____
- 14. Sample(s) not received. All or Sample Name: _____
- 15. Sample(s) received broken. All or Sample Name: _____
- 16. An incorrect container-type was used. All or Sample Name: _____
- 17. The Field Reagent Blank (FRB) preservative was from a different lot than the field samples.
Will proceed with analysis and narrate unless notified otherwise.
- 18. Other:

Bolded items require sign-off

Client Contacted: _____

Date of Contact: _____

Vista Client Manager: _____

Resolution:

Chain-of-Custody Record

242121

Sample ID	Sampling Date/Time *If Composite, Indicate Both Start & Finish Date/Time	Matrix (see below) Grab/*Composite	Analyses Requested																Field Turbidity (NTU)	# of Containers	NOTES MeOH Vial #
			PFAS- Method 537 - NHDES 9 Compound List																		
MW-2_20220426	4/26/22 1402	GW G	X																37.9	2	
MW-3_20220425	4/25/22 1142	GW G	X																84.5	2	
MW-5_20220426	4/26/22 1605	GW G	X																139	2	
MW-6_20220427	4/27/22 0909	GW G	X																25.3	2	
MW-11_20220427	4/27/22 0842	GW G	X																11.6	2	
MW-12_20220425	4/25/22 1358	GW G	X																118	2	
MW-13_20220425	4/25/22 1332	GW G	X																379	2	
MW-14_20220426	4/26/22 1550	GW G	X																108	2	
MW-15_20220427	4/27/22 0915	GW G	X																26.5	2	
MW-16_20220426	4/26/22 1315	GW G	X																>1000	2	
Matrix: A-Air; S-Soil; GW-Ground Water; SW-Surface Water; DW-Drinking Water; WW-Waste Water; AQ-Aqueous; L-Leachate Preservative: H-HCl; N-HNO3; S-H2SO4; Na-NaOH; M-MeOH; NSO-Na2S2O3																					

Report standard project RLs (last rpt: Work Order # 2104311) ~4 ng/L for all compounds

Project Manager: T. White
 Company: Sanborn, Head & Associates, Inc.
 Address: 20 Foundry Street
 City: Concord State: NH Zip: 03301
 Phone: 603-229-1900 Ext.:
 Fax: 603-229-1919
 E-Mail: twhite@sanbornhead.com
 Site Name: Dalton | PFAS
 Project # 1003.22
 State: NH
 Regulatory Program: NPDES: RGP POTW Stormwater or GWP, Oil Fund, Brownfield or Other.
 Quote #: PO#:

Date Needed: Standard TAT
 Temp: 102 °C
 Metals: Samples Field Filtered:
 A:
 B:
 C:
 Notes: (i.e., Special Detection Limits, Billing Info, If Diff)
Bill GSL.
 1) Sub to Vista
 2) Please Report Sulfonic Acids
 3) PFAS by Method 537 modified with isotope dilution (NHDES 9 Compound List)
 Suspected Contamination:
 Field Readings:

QA/QC
 Reporting Level: A B C
 or Presumptive Certainty
 Reporting Options: Prelims: Yes or No; If Yes: Fax or PDF
 Electronic Options: No Fax | E-Mail | PDF | Equis
 Sampler(s): PJP, GAP
 Relinquished By: [Signature] Date: 4/27/22 Time: 1445 Received By: [Signature]



Appendix K.8

September 2022 Analytical Laboratory Reports



Eastern Analytical, Inc.

professional laboratory and drilling services

Tim White
Sanborn, Head & Associates, Inc. (NH)
20 Foundry Street
Concord, NH 03301



Laboratory Report for:

Eastern Analytical, Inc. ID: 249419
Client Identification: Dalton | Surface Water | 1003.22
Date Received: 9/21/2022

Enclosed are the analytical results per the Chain of Custody for sample(s) in the referenced project. All analyses were performed in accordance with our QA/QC Program, NELAP and other applicable state requirements. All quality control criteria was within acceptance criteria unless noted on the report pages. Results are for the exclusive use of the client named on this report and will not be released to a third party without consent.

The following information is contained within this report: Sample Conditions summary, Analytical Results/Data, Quality Control data (if requested) and copies of the Chain of Custody. This report may not be reproduced except in full, without the written approval of the laboratory.

The following standard abbreviations and conventions apply to all EAI reports:

- < : "less than" followed by the reporting limit
- > : "greater than" followed by the reporting limit
- %R : % Recovery

Certifications:

Eastern Analytical, Inc. maintains certification in the following states: Connecticut (PH-0492), Maine (NH005), Massachusetts (M-NH005), New Hampshire/NELAP (1012), Rhode Island (269), Vermont (VT1012), New York (12072), West Virginia (9910C) and Alabama (41620). Please refer to our website at www.easternanalytical.com for a copy of our certificates and accredited parameters.


References:

- EPA 600/4-79-020, 1983
- Standard Methods for Examination of Water and Wastewater, 20th, 21st, 22nd & 23rd edition or noted revision year.
- Test Methods for Evaluating Solid Waste SW 846 3rd Edition including updates IVA and IVB
- Hach Water Analysis Handbook, 4th edition, 1992

If you have any questions regarding the results contained within, please feel free to contact customer service. Unless otherwise requested, we will dispose of the sample(s) 6 weeks from the sample receipt date.

We appreciate this opportunity to be of service and look forward to your continued patronage.

Sincerely,


Lorraine Olashaw, Lab Director

10.6.22
Date



SAMPLE CONDITIONS PAGE

EAI ID#: 249419

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Dalton | Surface Water | 1003.22**

Temperature upon receipt (°C): 5.1

Received on ice or cold packs (Yes/No): Y

Acceptable temperature range (°C): 0-6

Lab ID	Sample ID	Date Received	Date/Time Sampled	Sample Matrix	% Dry Weight	Exceptions/Comments (other than thermal preservation)
249419.01	SG-1_20220921	9/21/22	9/21/22 09:30	aqueous		Adheres to Sample Acceptance Policy
249419.02	SG-3_20220921	9/21/22	9/21/22 12:00	aqueous		Adheres to Sample Acceptance Policy
249419.03	SG-4_20220921	9/21/22	9/21/22 10:45	aqueous		Adheres to Sample Acceptance Policy
249419.04	SG-5_20220921	9/21/22	9/21/22 11:20	aqueous		Adheres to Sample Acceptance Policy
249419.05	SG-6_20220921	9/21/22	9/21/22 09:45	aqueous		Adheres to Sample Acceptance Policy
249419.06	SG-10_20220921	9/21/22	9/21/22 09:08	aqueous		Adheres to Sample Acceptance Policy
249419.07	AB-1_20220921	9/21/22	9/21/22 10:00	aqueous		Adheres to Sample Acceptance Policy
249419.08	SWDUP-1_20220921	9/21/22	9/21/22 12:00	aqueous		Adheres to Sample Acceptance Policy
249419.09	TB-SW-01_20220921	9/21/22	9/21/22 12:20	aqueous		Adheres to Sample Acceptance Policy
249419.1	TB-LL-SW-01_20220921	9/21/22	9/21/22 12:20	aqueous		Adheres to Sample Acceptance Policy

All results contained in this report relate only to the above listed samples.

Unless otherwise noted:

- Hold times, preservation, container types, and sample conditions adhered to EPA Protocol.
- Solid samples are reported on a dry weight basis, unless otherwise noted. pH/Corrosivity, Flashpoint, Ignitability, Paint Filter, Conductivity and Specific Gravity are always reported on an "as received" basis.
- Analysis of pH, Total Residual Chlorine, Dissolved Oxygen and Sulfite were performed at the laboratory outside of the recommended 15 minute hold time.
- Samples collected by Eastern Analytical, Inc. (EAI) were collected in accordance with approved EPA procedures.



LABORATORY REPORT

EAI ID#: **249419**

Client: **Sanborn, Head & Associates, Inc. (NH)**
 Client Designation: **Dalton | Surface Water | 1003.22**

Sample ID:	SG-1_20220921	SG-3_20220921	SG-4_20220921	SG-5_20220921
Lab Sample ID:	249419.01	249419.02	249419.03	249419.04
Matrix:	aqueous	aqueous	aqueous	aqueous
Date Sampled:	9/21/22	9/21/22	9/21/22	9/21/22
Date Received:	9/21/22	9/21/22	9/21/22	9/21/22
Units:	ug/L	ug/L	ug/L	ug/L
Date of Analysis:	9/22/22	9/22/22	9/22/22	9/22/22
Analyst:	JAK	JAK	JAK	JAK
Method:	8260C	8260C	8260C	8260C
Dilution Factor:	1	1	1	1
Dichlorodifluoromethane	< 2	< 2	< 2	< 2
Chloromethane	< 2	< 2	< 2	< 2
Vinyl chloride	< 1	< 1	< 1	< 1
Bromomethane	< 2	< 2	< 2	< 2
Chloroethane	< 2	< 2	< 2	< 2
Trichlorofluoromethane	< 2	< 2	< 2	< 2
Diethyl Ether	< 2	< 2	< 2	< 2
Acetone	< 10	< 10	< 10	< 10
1,1-Dichloroethene	< 0.5	< 0.5	< 0.5	< 0.5
tert-Butyl Alcohol (TBA)	< 30	< 30	< 30	< 30
Methylene chloride	< 1	< 1	< 1	< 1
Carbon disulfide	< 2	< 2	< 2	< 2
Methyl-t-butyl ether(MTBE)	< 1	< 1	< 1	< 1
Ethyl-t-butyl ether(ETBE)	< 2	< 2	< 2	< 2
Isopropyl ether(DIPE)	< 2	< 2	< 2	< 2
tert-amyl methyl ether(TAME)	< 2	< 2	< 2	< 2
trans-1,2-Dichloroethene	< 1	< 1	< 1	< 1
1,1-Dichloroethane	< 1	< 1	< 1	< 1
2,2-Dichloropropane	< 1	< 1	< 1	< 1
cis-1,2-Dichloroethene	< 1	< 1	< 1	< 1
2-Butanone(MEK)	< 10	< 10	< 10	< 10
Bromochloromethane	< 1	< 1	< 1	< 1
Tetrahydrofuran(THF)	< 10	< 10	< 10	< 10
Chloroform	< 1	< 1	< 1	< 1
1,1,1-Trichloroethane	< 1	< 1	< 1	< 1
Carbon tetrachloride	< 1	< 1	< 1	< 1
1,1-Dichloropropene	< 1	< 1	< 1	< 1
Benzene	< 1	< 1	< 1	< 1
1,2-Dichloroethane	< 1	< 1	< 1	< 1
Trichloroethene	< 1	< 1	< 1	< 1
1,2-Dichloropropane	< 1	< 1	< 1	< 1
Dibromomethane	< 1	< 1	< 1	< 1
Bromodichloromethane	< 0.5	< 0.5	< 0.5	< 0.5
1,4-Dioxane	< 50	< 50	< 50	< 50
4-Methyl-2-pentanone(MIBK)	< 10	< 10	< 10	< 10
cis-1,3-Dichloropropene	< 0.5	< 0.5	< 0.5	< 0.5
Toluene	< 1	< 1	< 1	< 1
trans-1,3-Dichloropropene	< 0.5	< 0.5	< 0.5	< 0.5
1,1,2-Trichloroethane	< 1	< 1	< 1	< 1
2-Hexanone	< 10	< 10	< 10	< 10
Tetrachloroethene	< 1	< 1	< 1	< 1
1,3-Dichloropropane	< 1	< 1	< 1	< 1
Dibromochloromethane	< 1	< 1	< 1	< 1
1,2-Dibromoethane(EDB)	< 0.5	< 0.5	< 0.5	< 0.5
Chlorobenzene	< 1	< 1	< 1	< 1
1,1,1,2-Tetrachloroethane	< 1	< 1	< 1	< 1



LABORATORY REPORT

EAI ID#: **249419**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Dalton | Surface Water | 1003.22**

Sample ID:	SG-1_20220921	SG-3_20220921	SG-4_20220921	SG-5_20220921
Lab Sample ID:	249419.01	249419.02	249419.03	249419.04
Matrix:	aqueous	aqueous	aqueous	aqueous
Date Sampled:	9/21/22	9/21/22	9/21/22	9/21/22
Date Received:	9/21/22	9/21/22	9/21/22	9/21/22
Units:	ug/L	ug/L	ug/L	ug/L
Date of Analysis:	9/22/22	9/22/22	9/22/22	9/22/22
Analyst:	JAK	JAK	JAK	JAK
Method:	8260C	8260C	8260C	8260C
Dilution Factor:	1	1	1	1
Ethylbenzene	< 1	< 1	< 1	< 1
mp-Xylene	< 1	< 1	< 1	< 1
o-Xylene	< 1	< 1	< 1	< 1
Styrene	< 1	< 1	< 1	< 1
Bromoform	< 2	< 2	< 2	< 2
IsoPropylbenzene	< 1	< 1	< 1	< 1
Bromobenzene	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	< 1	< 1	< 1	< 1
1,2,3-Trichloropropane	< 0.5	< 0.5	< 0.5	< 0.5
n-Propylbenzene	< 1	< 1	< 1	< 1
2-Chlorotoluene	< 1	< 1	< 1	< 1
4-Chlorotoluene	< 1	< 1	< 1	< 1
1,3,5-Trimethylbenzene	< 1	< 1	< 1	< 1
tert-Butylbenzene	< 1	< 1	< 1	< 1
1,2,4-Trimethylbenzene	< 1	< 1	< 1	< 1
sec-Butylbenzene	< 1	< 1	< 1	< 1
1,3-Dichlorobenzene	< 1	< 1	< 1	< 1
p-Isopropyltoluene	< 1	< 1	< 1	< 1
1,4-Dichlorobenzene	< 1	< 1	< 1	< 1
1,2-Dichlorobenzene	< 1	< 1	< 1	< 1
n-Butylbenzene	< 1	< 1	< 1	< 1
1,2-Dibromo-3-chloropropane	< 2	< 2	< 2	< 2
1,3,5-Trichlorobenzene	< 1	< 1	< 1	< 1
1,2,4-Trichlorobenzene	< 1	< 1	< 1	< 1
Hexachlorobutadiene	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	< 2	< 2	< 2	< 2
1,2,3-Trichlorobenzene	< 0.5	< 0.5	< 0.5	< 0.5
4-Bromofluorobenzene (surr)	88 %R	87 %R	87 %R	88 %R
1,2-Dichlorobenzene-d4 (surr)	104 %R	105 %R	105 %R	104 %R
Toluene-d8 (surr)	97 %R	97 %R	97 %R	96 %R
1,2-Dichloroethane-d4 (surr)	93 %R	92 %R	92 %R	92 %R

tert-Butyl Alcohol (TBA) exhibited recovery below acceptance limits in the Quality Control sample(s). The analyte(s) were not detected in the sample(s).



LABORATORY REPORT

EAI ID#: **249419**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Dalton | Surface Water | 1003.22**

Sample ID:	SG-6_20220921	SG-10_20220921	AB-1_20220921	SWDUP-1_20220921
Lab Sample ID:	249419.05	249419.06	249419.07	249419.08
Matrix:	aqueous	aqueous	aqueous	aqueous
Date Sampled:	9/21/22	9/21/22	9/21/22	9/21/22
Date Received:	9/21/22	9/21/22	9/21/22	9/21/22
Units:	ug/L	ug/L	ug/L	ug/L
Date of Analysis:	9/22/22	9/22/22	9/22/22	9/22/22
Analyst:	JAK	JAK	JAK	JAK
Method:	8260C	8260C	8260C	8260C
Dilution Factor:	1	1	1	1
Dichlorodifluoromethane	< 2	< 2	< 2	< 2
Chloromethane	< 2	< 2	< 2	< 2
Vinyl chloride	< 1	< 1	< 1	< 1
Bromomethane	< 2	< 2	< 2	< 2
Chloroethane	< 2	< 2	< 2	< 2
Trichlorofluoromethane	< 2	< 2	< 2	< 2
Diethyl Ether	< 2	< 2	< 2	< 2
Acetone	< 10	< 10	< 10	< 10
1,1-Dichloroethene	< 0.5	< 0.5	< 0.5	< 0.5
tert-Butyl Alcohol (TBA)	< 30	< 30	< 30	< 30
Methylene chloride	< 1	< 1	< 1	< 1
Carbon disulfide	< 2	< 2	< 2	< 2
Methyl-t-butyl ether(MTBE)	< 1	< 1	< 1	< 1
Ethyl-t-butyl ether(ETBE)	< 2	< 2	< 2	< 2
Isopropyl ether(DIPE)	< 2	< 2	< 2	< 2
tert-amyl methyl ether(TAME)	< 2	< 2	< 2	< 2
trans-1,2-Dichloroethene	< 1	< 1	< 1	< 1
1,1-Dichloroethane	< 1	< 1	< 1	< 1
2,2-Dichloropropane	< 1	< 1	< 1	< 1
cis-1,2-Dichloroethene	< 1	< 1	< 1	< 1
2-Butanone(MEK)	< 10	< 10	< 10	< 10
Bromochloromethane	< 1	< 1	< 1	< 1
Tetrahydrofuran(THF)	< 10	< 10	< 10	< 10
Chloroform	< 1	< 1	< 1	< 1
1,1,1-Trichloroethane	< 1	< 1	< 1	< 1
Carbon tetrachloride	< 1	< 1	< 1	< 1
1,1-Dichloropropene	< 1	< 1	< 1	< 1
Benzene	< 1	< 1	< 1	< 1
1,2-Dichloroethane	< 1	< 1	< 1	< 1
Trichloroethene	< 1	< 1	< 1	< 1
1,2-Dichloropropane	< 1	< 1	< 1	< 1
Dibromomethane	< 1	< 1	< 1	< 1
Bromodichloromethane	< 0.5	< 0.5	< 0.5	< 0.5
1,4-Dioxane	< 50	< 50	< 50	< 50
4-Methyl-2-pentanone(MIBK)	< 10	< 10	< 10	< 10
cis-1,3-Dichloropropene	< 0.5	< 0.5	< 0.5	< 0.5
Toluene	< 1	< 1	< 1	< 1
trans-1,3-Dichloropropene	< 0.5	< 0.5	< 0.5	< 0.5
1,1,2-Trichloroethane	< 1	< 1	< 1	< 1
2-Hexanone	< 10	< 10	< 10	< 10
Tetrachloroethene	< 1	< 1	< 1	< 1
1,3-Dichloropropane	< 1	< 1	< 1	< 1
Dibromochloromethane	< 1	< 1	< 1	< 1
1,2-Dibromoethane(EDB)	< 0.5	< 0.5	< 0.5	< 0.5
Chlorobenzene	< 1	< 1	< 1	< 1
1,1,1,2-Tetrachloroethane	< 1	< 1	< 1	< 1



LABORATORY REPORT

EAI ID#: 249419

Client: Sanborn, Head & Associates, Inc. (NH)

Client Designation: Dalton | Surface Water | 1003.22

Sample ID:	SG-6_20220921	SG-10_20220921	AB-1_20220921	SWDUP-1_20220921
Lab Sample ID:	249419.05	249419.06	249419.07	249419.08
Matrix:	aqueous	aqueous	aqueous	aqueous
Date Sampled:	9/21/22	9/21/22	9/21/22	9/21/22
Date Received:	9/21/22	9/21/22	9/21/22	9/21/22
Units:	ug/L	ug/L	ug/L	ug/L
Date of Analysis:	9/22/22	9/22/22	9/22/22	9/22/22
Analyst:	JAK	JAK	JAK	JAK
Method:	8260C	8260C	8260C	8260C
Dilution Factor:	1	1	1	1
Ethylbenzene	< 1	< 1	< 1	< 1
mp-Xylene	< 1	< 1	< 1	< 1
o-Xylene	< 1	< 1	< 1	< 1
Styrene	< 1	< 1	< 1	< 1
Bromoform	< 2	< 2	< 2	< 2
IsoPropylbenzene	< 1	< 1	< 1	< 1
Bromobenzene	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	< 1	< 1	< 1	< 1
1,2,3-Trichloropropane	< 0.5	< 0.5	< 0.5	< 0.5
n-Propylbenzene	< 1	< 1	< 1	< 1
2-Chlorotoluene	< 1	< 1	< 1	< 1
4-Chlorotoluene	< 1	< 1	< 1	< 1
1,3,5-Trimethylbenzene	< 1	< 1	< 1	< 1
tert-Butylbenzene	< 1	< 1	< 1	< 1
1,2,4-Trimethylbenzene	< 1	< 1	< 1	< 1
sec-Butylbenzene	< 1	< 1	< 1	< 1
1,3-Dichlorobenzene	< 1	< 1	< 1	< 1
p-Isopropyltoluene	< 1	< 1	< 1	< 1
1,4-Dichlorobenzene	< 1	< 1	< 1	< 1
1,2-Dichlorobenzene	< 1	< 1	< 1	< 1
n-Butylbenzene	< 1	< 1	< 1	< 1
1,2-Dibromo-3-chloropropane	< 2	< 2	< 2	< 2
1,3,5-Trichlorobenzene	< 1	< 1	< 1	< 1
1,2,4-Trichlorobenzene	< 1	< 1	< 1	< 1
Hexachlorobutadiene	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	< 2	< 2	< 2	< 2
1,2,3-Trichlorobenzene	< 0.5	< 0.5	< 0.5	< 0.5
4-Bromofluorobenzene (surr)	88 %R	88 %R	87 %R	89 %R
1,2-Dichlorobenzene-d4 (surr)	104 %R	104 %R	105 %R	104 %R
Toluene-d8 (surr)	96 %R	96 %R	97 %R	96 %R
1,2-Dichloroethane-d4 (surr)	93 %R	92 %R	93 %R	93 %R

tert-Butyl Alcohol (TBA) exhibited recovery below acceptance limits in the Quality Control sample(s). The analyte(s) were not detected in the sample(s).



LABORATORY REPORT

EAI ID#: 249419

Client: **Sanborn, Head & Associates, Inc. (NH)**
Client Designation: **Dalton | Surface Water | 1003.22**

Sample ID: TB-SW-01_20220921

Lab Sample ID: 249419.09
Matrix: aqueous
Date Sampled: 9/21/22
Date Received: 9/21/22
Units: ug/L
Date of Analysis: 9/22/22
Analyst: JAK
Method: 8260C
Dilution Factor: 1

Dichlorodifluoromethane	< 2
Chloromethane	< 2
Vinyl chloride	< 1
Bromomethane	< 2
Chloroethane	< 2
Trichlorofluoromethane	< 2
Diethyl Ether	< 2
Acetone	< 10
1,1-Dichloroethene	< 0.5
tert-Butyl Alcohol (TBA)	< 30
Methylene chloride	< 1
Carbon disulfide	< 2
Methyl-t-butyl ether(MTBE)	< 1
Ethyl-t-butyl ether(ETBE)	< 2
Isopropyl ether(DIPE)	< 2
tert-amyl methyl ether(TAME)	< 2
trans-1,2-Dichloroethene	< 1
1,1-Dichloroethane	< 1
2,2-Dichloropropane	< 1
cis-1,2-Dichloroethene	< 1
2-Butanone(MEK)	< 10
Bromochloromethane	< 1
Tetrahydrofuran(THF)	< 10
Chloroform	< 1
1,1,1-Trichloroethane	< 1
Carbon tetrachloride	< 1
1,1-Dichloropropene	< 1
Benzene	< 1
1,2-Dichloroethane	< 1
Trichloroethene	< 1
1,2-Dichloropropane	< 1
Dibromomethane	< 1
Bromodichloromethane	< 0.5
1,4-Dioxane	< 50
4-Methyl-2-pentanone(MIBK)	< 10
cis-1,3-Dichloropropene	< 0.5
Toluene	< 1
trans-1,3-Dichloropropene	< 0.5
1,1,2-Trichloroethane	< 1
2-Hexanone	< 10
Tetrachloroethene	< 1
1,3-Dichloropropane	< 1
Dibromochloromethane	< 1
1,2-Dibromoethane(EDB)	< 0.5
Chlorobenzene	< 1
1,1,1,2-Tetrachloroethane	< 1



LABORATORY REPORT

EAI ID#: 249419

Client: Sanborn, Head & Associates, Inc. (NH)

Client Designation: Dalton | Surface Water | 1003.22

Sample ID: TB-SW-01_20220921

Lab Sample ID: 249419.09
Matrix: aqueous
Date Sampled: 9/21/22
Date Received: 9/21/22
Units: ug/L
Date of Analysis: 9/22/22
Analyst: JAK
Method: 8260C
Dilution Factor: 1

Ethylbenzene	< 1
mp-Xylene	< 1
o-Xylene	< 1
Styrene	< 1
Bromoform	< 2
IsoPropylbenzene	< 1
Bromobenzene	< 1
1,1,2,2-Tetrachloroethane	< 1
1,2,3-Trichloropropane	< 0.5
n-Propylbenzene	< 1
2-Chlorotoluene	< 1
4-Chlorotoluene	< 1
1,3,5-Trimethylbenzene	< 1
tert-Butylbenzene	< 1
1,2,4-Trimethylbenzene	< 1
sec-Butylbenzene	< 1
1,3-Dichlorobenzene	< 1
p-Isopropyltoluene	< 1
1,4-Dichlorobenzene	< 1
1,2-Dichlorobenzene	< 1
n-Butylbenzene	< 1
1,2-Dibromo-3-chloropropane	< 2
1,3,5-Trichlorobenzene	< 1
1,2,4-Trichlorobenzene	< 1
Hexachlorobutadiene	< 0.5
Naphthalene	< 2
1,2,3-Trichlorobenzene	< 0.5
4-Bromofluorobenzene (surr)	87 %R
1,2-Dichlorobenzene-d4 (surr)	104 %R
Toluene-d8 (surr)	97 %R
1,2-Dichloroethane-d4 (surr)	92 %R

tert-Butyl Alcohol (TBA) exhibited recovery below acceptance limits in the Quality Control sample(s). The analyte(s) were not detected in the sample(s).



QC REPORT

EAI ID#: 249419

Client: Sanborn, Head & Associates, Inc. (NH)

Batch ID: 637994-58888/A092222V82601

Client Designation: Dalton | Surface Water | 1003.22

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
Dichlorodifluoromethane	< 2	22 (109 %R)	21 (104 %R) (5 RPD)	9/22/2022	ug/L	40 - 160	20	8260C
Chloromethane	< 2	26 (129 %R)	25 (125 %R) (4 RPD)	9/22/2022	ug/L	40 - 160	20	8260C
Vinyl chloride	< 1	25 (125 %R)	24 (121 %R) (4 RPD)	9/22/2022	ug/L	70 - 130	20	8260C
Bromomethane	< 2	27 (136 %R)	27 (137 %R) (1 RPD)	9/22/2022	ug/L	40 - 160	20	8260C
Chloroethane	< 2	24 (121 %R)	23 (116 %R) (4 RPD)	9/22/2022	ug/L	70 - 130	20	8260C
Trichlorofluoromethane	< 2	25 (125 %R)	24 (119 %R) (5 RPD)	9/22/2022	ug/L	70 - 130	20	8260C
Diethyl Ether	< 2	18 (89 %R)	17 (87 %R) (1 RPD)	9/22/2022	ug/L	70 - 130	20	8260C
Acetone	< 10	14 (70 %R)	14 (70 %R) (1 RPD)	9/22/2022	ug/L	40 - 160	20	8260C
1,1-Dichloroethene	< 0.5	* 26 (131 %R)	25 (124 %R) (5 RPD)	9/22/2022	ug/L	70 - 130	20	8260C
tert-Butyl Alcohol (TBA)	< 30	* 66 (66 %R)	* 66 (66 %R) (1 RPD)	9/22/2022	ug/L	70 - 130	20	8260C
Methylene chloride	< 1	23 (115 %R)	22 (111 %R) (4 RPD)	9/22/2022	ug/L	70 - 130	20	8260C
Carbon disulfide	< 2	23 (114 %R)	21 (107 %R) (7 RPD)	9/22/2022	ug/L	70 - 130	20	8260C
Methyl-t-butyl ether(MTBE)	< 1	18 (92 %R)	18 (91 %R) (2 RPD)	9/22/2022	ug/L	70 - 130	20	8260C
Ethyl-t-butyl ether(ETBE)	< 2	20 (98 %R)	19 (96 %R) (2 RPD)	9/22/2022	ug/L	70 - 130	20	8260C
Isopropyl ether(DIPE)	< 2	20 (98 %R)	19 (96 %R) (3 RPD)	9/22/2022	ug/L	70 - 130	20	8260C
tert-amyl methyl ether(TAME)	< 2	20 (101 %R)	20 (100 %R) (2 RPD)	9/22/2022	ug/L	70 - 130	20	8260C
trans-1,2-Dichloroethene	< 1	25 (126 %R)	24 (120 %R) (5 RPD)	9/22/2022	ug/L	70 - 130	20	8260C
1,1-Dichloroethane	< 1	23 (114 %R)	22 (109 %R) (4 RPD)	9/22/2022	ug/L	70 - 130	20	8260C
2,2-Dichloropropane	< 1	* 26 (132 %R)	25 (124 %R) (6 RPD)	9/22/2022	ug/L	70 - 130	20	8260C
cis-1,2-Dichloroethene	< 1	23 (115 %R)	22 (111 %R) (4 RPD)	9/22/2022	ug/L	70 - 130	20	8260C
2-Butanone(MEK)	< 10	16 (78 %R)	16 (79 %R) (1 RPD)	9/22/2022	ug/L	40 - 160	20	8260C
Bromochloromethane	< 1	24 (120 %R)	23 (116 %R) (3 RPD)	9/22/2022	ug/L	70 - 130	20	8260C
Tetrahydrofuran(THF)	< 10	16 (80 %R)	16 (81 %R) (1 RPD)	9/22/2022	ug/L	70 - 130	20	8260C
Chloroform	< 1	22 (109 %R)	21 (105 %R) (4 RPD)	9/22/2022	ug/L	70 - 130	20	8260C
1,1,1-Trichloroethane	< 1	22 (112 %R)	21 (107 %R) (5 RPD)	9/22/2022	ug/L	70 - 130	20	8260C
Carbon tetrachloride	< 1	23 (114 %R)	22 (108 %R) (5 RPD)	9/22/2022	ug/L	70 - 130	20	8260C
1,1-Dichloropropene	< 1	22 (110 %R)	21 (105 %R) (5 RPD)	9/22/2022	ug/L	70 - 130	20	8260C
Benzene	< 1	24 (119 %R)	23 (114 %R) (4 RPD)	9/22/2022	ug/L	70 - 130	20	8260C
1,2-Dichloroethane	< 1	19 (95 %R)	19 (93 %R) (2 RPD)	9/22/2022	ug/L	70 - 130	20	8260C
Trichloroethene	< 1	23 (113 %R)	22 (108 %R) (5 RPD)	9/22/2022	ug/L	70 - 130	20	8260C
1,2-Dichloropropane	< 1	23 (115 %R)	22 (111 %R) (3 RPD)	9/22/2022	ug/L	70 - 130	20	8260C
Dibromomethane	< 1	22 (110 %R)	22 (108 %R) (2 RPD)	9/22/2022	ug/L	70 - 130	20	8260C
Bromodichloromethane	< 0.5	24 (119 %R)	23 (114 %R) (4 RPD)	9/22/2022	ug/L	70 - 130	20	8260C
1,4-Dioxane	< 50	< 50 (98 %R)	< 50 (98 %R) (0 RPD)	9/22/2022	ug/L	40 - 160	20	8260C
4-Methyl-2-pentanone(MIBK)	< 10	15 (77 %R)	16 (78 %R) (1 RPD)	9/22/2022	ug/L	40 - 160	20	8260C
cis-1,3-Dichloropropene	< 0.5	24 (118 %R)	23 (114 %R) (3 RPD)	9/22/2022	ug/L	70 - 130	20	8260C
Toluene	< 1	22 (110 %R)	21 (106 %R) (4 RPD)	9/22/2022	ug/L	70 - 130	20	8260C
trans-1,3-Dichloropropene	< 0.5	22 (112 %R)	22 (110 %R) (2 RPD)	9/22/2022	ug/L	70 - 130	20	8260C
1,1,2-Trichloroethane	< 1	21 (105 %R)	21 (103 %R) (2 RPD)	9/22/2022	ug/L	70 - 130	20	8260C
2-Hexanone	< 10	14 (68 %R)	14 (69 %R) (1 RPD)	9/22/2022	ug/L	40 - 160	20	8260C
Tetrachloroethene	< 1	23 (114 %R)	22 (109 %R) (5 RPD)	9/22/2022	ug/L	70 - 130	20	8260C
1,3-Dichloropropane	< 1	20 (101 %R)	20 (100 %R) (2 RPD)	9/22/2022	ug/L	70 - 130	20	8260C
Dibromochloromethane	< 1	23 (114 %R)	22 (111 %R) (2 RPD)	9/22/2022	ug/L	70 - 130	20	8260C
1,2-Dibromoethane(EDB)	< 0.5	22 (108 %R)	21 (107 %R) (1 RPD)	9/22/2022	ug/L	70 - 130	20	8260C
Chlorobenzene	< 1	22 (109 %R)	21 (106 %R) (3 RPD)	9/22/2022	ug/L	70 - 130	20	8260C
1,1,1,2-Tetrachloroethane	< 1	22 (112 %R)	22 (109 %R) (3 RPD)	9/22/2022	ug/L	70 - 130	20	8260C



QC REPORT

EAI ID#: 249419

Client: Sanborn, Head & Associates, Inc. (NH)

Batch ID: 637994-58888/A092222V82601

Client Designation: Dalton | Surface Water | 1003.22

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
Ethylbenzene	< 1	23 (113 %R)	22 (108 %R) (4 RPD)	9/22/2022	ug/L	70 - 130	20	8260C
mp-Xylene	< 1	46 (115 %R)	44 (110 %R) (4 RPD)	9/22/2022	ug/L	70 - 130	20	8260C
o-Xylene	< 1	23 (116 %R)	22 (112 %R) (3 RPD)	9/22/2022	ug/L	70 - 130	20	8260C
Styrene	< 1	23 (117 %R)	22 (112 %R) (5 RPD)	9/22/2022	ug/L	70 - 130	20	8260C
Bromoforn	< 2	23 (116 %R)	23 (114 %R) (2 RPD)	9/22/2022	ug/L	70 - 130	20	8260C
IsoPropylbenzene	< 1	23 (115 %R)	22 (111 %R) (4 RPD)	9/22/2022	ug/L	70 - 130	20	8260C
Bromobenzene	< 1	22 (111 %R)	22 (108 %R) (3 RPD)	9/22/2022	ug/L	70 - 130	20	8260C
1,1,2,2-Tetrachloroethane	< 1	19 (96 %R)	19 (96 %R) (0 RPD)	9/22/2022	ug/L	70 - 130	20	8260C
1,2,3-Trichloropropane	< 0.5	18 (91 %R)	18 (90 %R) (1 RPD)	9/22/2022	ug/L	70 - 130	20	8260C
n-Propylbenzene	< 1	22 (112 %R)	21 (107 %R) (4 RPD)	9/22/2022	ug/L	70 - 130	20	8260C
2-Chlorotoluene	< 1	22 (109 %R)	21 (105 %R) (4 RPD)	9/22/2022	ug/L	70 - 130	20	8260C
4-Chlorotoluene	< 1	22 (108 %R)	21 (105 %R) (3 RPD)	9/22/2022	ug/L	70 - 130	20	8260C
1,3,5-Trimethylbenzene	< 1	23 (113 %R)	22 (109 %R) (4 RPD)	9/22/2022	ug/L	70 - 130	20	8260C
tert-Butylbenzene	< 1	22 (112 %R)	22 (109 %R) (3 RPD)	9/22/2022	ug/L	70 - 130	20	8260C
1,2,4-Trimethylbenzene	< 1	23 (113 %R)	22 (109 %R) (3 RPD)	9/22/2022	ug/L	70 - 130	20	8260C
sec-Butylbenzene	< 1	23 (115 %R)	22 (111 %R) (4 RPD)	9/22/2022	ug/L	70 - 130	20	8260C
1,3-Dichlorobenzene	< 1	22 (109 %R)	21 (105 %R) (3 RPD)	9/22/2022	ug/L	70 - 130	20	8260C
p-Isopropyltoluene	< 1	23 (116 %R)	22 (112 %R) (4 RPD)	9/22/2022	ug/L	70 - 130	20	8260C
1,4-Dichlorobenzene	< 1	21 (106 %R)	21 (103 %R) (3 RPD)	9/22/2022	ug/L	70 - 130	20	8260C
1,2-Dichlorobenzene	< 1	21 (106 %R)	21 (104 %R) (2 RPD)	9/22/2022	ug/L	70 - 130	20	8260C
n-Butylbenzene	< 1	22 (111 %R)	21 (107 %R) (4 RPD)	9/22/2022	ug/L	70 - 130	20	8260C
1,2-Dibromo-3-chloropropane	< 2	18 (91 %R)	18 (91 %R) (1 RPD)	9/22/2022	ug/L	70 - 130	20	8260C
1,3,5-Trichlorobenzene	< 1	20 (102 %R)	20 (100 %R) (2 RPD)	9/22/2022	ug/L	70 - 130	20	8260C
1,2,4-Trichlorobenzene	< 1	21 (105 %R)	21 (103 %R) (1 RPD)	9/22/2022	ug/L	70 - 130	20	8260C
Hexachlorobutadiene	< 0.5	23 (116 %R)	23 (113 %R) (3 RPD)	9/22/2022	ug/L	70 - 130	20	8260C
Naphthalene	< 2	19 (97 %R)	20 (99 %R) (2 RPD)	9/22/2022	ug/L	70 - 130	20	8260C
1,2,3-Trichlorobenzene	< 0.5	20 (101 %R)	20 (101 %R) (0 RPD)	9/22/2022	ug/L	70 - 130	20	8260C
4-Bromofluorobenzene (surr)	88 %R	100 %R	99 %R	9/22/2022	% Rec	70 - 130	20	8260C
1,2-Dichlorobenzene-d4 (surr)	104 %R	98 %R	98 %R	9/22/2022	% Rec	70 - 130	20	8260C
Toluene-d8 (surr)	97 %R	95 %R	95 %R	9/22/2022	% Rec	70 - 130	20	8260C
1,2-Dichloroethane-d4 (surr)	91 %R	88 %R	87 %R	9/22/2022	% Rec	70 - 130	20	8260C

*! Flagged analyte recoveries deviated from the QA/QC limits. Data that impacts sample results are noted on the sample report.



LABORATORY REPORT

EAI ID#: **249419**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Dalton | Surface Water | 1003.22**

Sample ID:	SG-1_20220921	SG-3_20220921	SG-4_20220921	SG-5_20220921
Lab Sample ID:	249419.01	249419.02	249419.03	249419.04
Matrix:	aqueous	aqueous	aqueous	aqueous
Date Sampled:	9/21/22	9/21/22	9/21/22	9/21/22
Date Received:	9/21/22	9/21/22	9/21/22	9/21/22
Units:	ug/L	ug/L	ug/L	ug/L
Date of Analysis:	9/25/22	9/25/22	9/25/22	9/25/22
Analyst:	MLW	MLW	MLW	MLW
Method:	8260B SIM	8260B SIM	8260B SIM	8260B SIM
Dilution Factor:	1	1	1	1
1,4-Dioxane	< 0.25	< 0.25	< 0.25	< 0.25
4-Bromofluorobenzene (surr)	100 %R	99 %R	97 %R	97 %R
Toluene-d8 (surr)	97 %R	96 %R	94 %R	94 %R



LABORATORY REPORT

EAI ID#: 249419

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Dalton | Surface Water | 1003.22**

Sample ID:	SG-6_20220921	SG-10_20220921	AB-1_20220921	SWDUP-1_20220921
Lab Sample ID:	249419.05	249419.06	249419.07	249419.08
Matrix:	aqueous	aqueous	aqueous	aqueous
Date Sampled:	9/21/22	9/21/22	9/21/22	9/21/22
Date Received:	9/21/22	9/21/22	9/21/22	9/21/22
Units:	ug/L	ug/L	ug/L	ug/L
Date of Analysis:	9/25/22	9/25/22	9/25/22	9/25/22
Analyst:	MLW	MLW	MLW	MLW
Method:	8260B SIM	8260B SIM	8260B SIM	8260B SIM
Dilution Factor:	1	1	1	1
1,4-Dioxane	< 0.25	< 0.25	< 0.25	< 0.25
4-Bromofluorobenzene (surr)	99 %R	98 %R	97 %R	98 %R
Toluene-d8 (surr)	96 %R	94 %R	94 %R	94 %R



LABORATORY REPORT

EAI ID#: 249419

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Dalton | Surface Water | 1003.22**

Sample ID: TB-LL-SW-01_20220921

Lab Sample ID: 249419.1
Matrix: aqueous
Date Sampled: 9/21/22
Date Received: 9/21/22
Units: ug/L
Date of Analysis: 9/25/22
Analyst: MLW
Method: 8260B SIM
Dilution Factor: 1
1,4-Dioxane < 0.25
4-Bromofluorobenzene (surr) 75 %R
Toluene-d8 (surr) 83 %R



QC REPORT

EAI ID#: **249419**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Batch ID: 637997-08494/A092422DIOX2

Client Designation: **Dalton | Surface Water | 1003.22**

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
1,4-Dioxane	< 0.2	4.9 (98 %R)	4.9 (97 %R) (1 RPD)	9/25/2022	ug/L	70 - 130	20	8260B
4-Bromofluorobenzene (surr)	101 %R	102 %R	101 %R	9/25/2022	% Rec	70 - 130	50	8260B
Toluene-d8 (surr)	98 %R	101 %R	100 %R	9/25/2022	% Rec	70 - 130	50	8260B

*! Flagged analyte recoveries deviated from the QA/QC limits. Data that impacts sample results are noted on the sample report.



QC REPORT

EAI ID#: **249419**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Batch ID: 637997-09156/A092522DIOX1

Client Designation: **Dalton | Surface Water | 1003.22**

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
1,4-Dioxane	< 0.2	4.7 (95 %R)	4.8 (97 %R) (2 RPD)	9/25/2022	ug/L	70 - 130	20	8260B
4-Bromofluorobenzene (surr)	100 %R	98 %R	99 %R	9/25/2022	% Rec	70 - 130	50	8260B
Toluene-d8 (surr)	96 %R	96 %R	98 %R	9/25/2022	% Rec	70 - 130	50	8260B

*! Flagged analyte recoveries deviated from the QA/QC limits. Data that impacts sample results are noted on the sample report.



LABORATORY REPORT

EAI ID#: **249419**

Client: **Sanborn, Head & Associates, Inc. (NH)**
 Client Designation: **Dalton | Surface Water | 1003.22**

Sample ID:	SG-1_20220921	SG-3_20220921	SG-4_20220921	SG-5_20220921
Lab Sample ID:	249419.01	249419.02	249419.03	249419.04
Matrix:	aqueous	aqueous	aqueous	aqueous
Date Sampled:	9/21/22	9/21/22	9/21/22	9/21/22
Date Received:	9/21/22	9/21/22	9/21/22	9/21/22
Units:	ug/L	ug/L	ug/L	ug/L
Date of Extraction/Prep:	9/22/22	9/22/22	9/22/22	9/22/22
Date of Analysis:	9/22/22	9/22/22	9/22/22	9/22/22
Analyst:	WOD	WOD	WOD	WOD
Method:	8011/504	8011/504	8011/504	8011/504
Dilution Factor:	1	1	1	1
1,2-Dibromoethane(EDB)	< 0.02	< 0.02	< 0.02	< 0.02
Dibromochloropropane (DBCP)	< 0.02	< 0.02	< 0.02	< 0.02
1,1,1,2-Tetrachloroethane (surr)	99 %R	98 %R	96 %R	100 %R



LABORATORY REPORT

EAI ID#: **249419**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Dalton | Surface Water | 1003.22**

Sample ID:	SG-6_20220921	SG-10_20220921	AB-1_20220921	SWDUP-1_20220921
Lab Sample ID:	249419.05	249419.06	249419.07	249419.08
Matrix:	aqueous	aqueous	aqueous	aqueous
Date Sampled:	9/21/22	9/21/22	9/21/22	9/21/22
Date Received:	9/21/22	9/21/22	9/21/22	9/21/22
Units:	ug/L	ug/L	ug/L	ug/L
Date of Extraction/Prep:	9/22/22	9/22/22	9/22/22	9/22/22
Date of Analysis:	9/22/22	9/22/22	9/22/22	9/22/22
Analyst:	WOD	WOD	WOD	WOD
Method:	8011/504	8011/504	8011/504	8011/504
Dilution Factor:	1	1	1	1
1,2-Dibromoethane(EDB)	< 0.02	< 0.02	< 0.02	< 0.02
Dibromochloropropane (DBCP)	< 0.02	< 0.02	< 0.02	< 0.02
1,1,1,2-Tetrachloroethane (surr)	97 %R	95 %R	96 %R	96 %R



QC REPORT

EAI ID#: **249419**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Batch ID: 637994-32024/A092222E5041

Client Designation: **Dalton | Surface Water | 1003.22**

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
1,2-Dibromoethane(EDB)	< 0.02	0.082 (82 %R)	0.082 (82 %R) (1 RPD)	9/22/2022	ug/L	70 - 130	20	8011/504
Dibromochloropropane (DBCP)	< 0.02	0.092 (92 %R)	0.092 (92 %R) (0 RPD)	9/22/2022	ug/L	70 - 130	20	8011/504
1,1,1,2-Tetrachloroethane (surr)	93 %R	92 %R	89 %R	9/22/2022	% Rec	65 - 135	20	8011/504

*/! Flagged analyte recoveries deviated from the QA/QC limits. Data that impacts sample results are noted on the sample report.



QC REPORT

EAI ID#: **6379943**

Client:

Batch ID: 637994-32340/A092222E5042

Client Designation:

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
1,2-Dibromoethane(EDB)	< 0.02	0.084 (84 %R)	0.085 (85 %R) (1 RPD)	9/22/2022	ug/L	70 - 130	20	8011/504
Dibromochloropropane (DBCP)	< 0.02	0.091 (91 %R)	0.093 (93 %R) (2 RPD)	9/22/2022	ug/L	70 - 130	20	8011/504
1,1,1,2-Tetrachloroethane (surr)	94 %R	92 %R	93 %R	9/22/2022	% Rec	65 - 135	20	8011/504

*! Flagged analyte recoveries deviated from the QA/QC limits. Data that impacts sample results are noted on the sample report.



LABORATORY REPORT

EAI ID#: 249419

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Dalton | Surface Water | 1003.22**

Sample ID:	SG-1_20220921	SG -3_20220921	SG -4_20220921	SG -5_20220921		Analysis			
Lab Sample ID:	249419.01	249419.02	249419.03	249419.04	Units	Date	Time	Method	Analyst
Matrix:	aqueous	aqueous	aqueous	aqueous					
Date Sampled:	9/21/22	9/21/22	9/21/22	9/21/22					
Date Received:	9/21/22	9/21/22	9/21/22	9/21/22					
Sulfate	14	18	8.6	7.8	mg/L	09/27/22	18:41	300.0	KEF
Chloride	1	1.2	1	1.7	mg/L	09/22/22	14:11	4500CIE-11	KEF
Nitrate-N	< 0.5	< 0.5	< 0.5	< 0.5	mg/L	09/22/22	14:11	353.2	KEF
Alkalinity Total (CaCO3)	9.7	43	19	4.9	mg/L	09/26/22	11:04	2320B-11	MKB
Cyanide Total	< 0.02	< 0.02	< 0.02	< 0.02	mg/L	10/03/22	17:10	ASTM D7511-09	KD
TKN	< 0.5	0.57	0.69	0.94	mg/L	09/26/22	16:47	4500N _{org} C/NH3D	GRS
COD	16	13	20	55	mg/L	09/23/22	9:50	H8000	JCS
Dissolved Organic Carbon	8.2	5.8	10	31	mg/L	09/26/22	15:53	5310C-00	LO

Sample ID:	SG-6_20220921	SG -10_20220921	AB -1_20220921	SWDUP -1_20220921		Analysis			
Lab Sample ID:	249419.05	249419.06	249419.07	249419.08	Units	Date	Time	Method	Analyst
Matrix:	aqueous	aqueous	aqueous	aqueous					
Date Sampled:	9/21/22	9/21/22	9/21/22	9/21/22					
Date Received:	9/21/22	9/21/22	9/21/22	9/21/22					
Sulfate	7.7	6.6	11	18	mg/L	09/27/22	19:35	300.0	KEF
Chloride	< 1	< 1	1.1	1.1	mg/L	09/22/22	14:30	4500CIE-11	KEF
Nitrate-N	< 0.5	< 0.5	< 0.5	< 0.5	mg/L	09/22/22	14:30	353.2	KEF
Alkalinity Total (CaCO3)	7.4	16	24	38	mg/L	09/26/22	11:04	2320B-11	MKB
Cyanide Total	< 0.02	< 0.02	< 0.02	< 0.02	mg/L	10/03/22	17:21	ASTM D7511-09	KD
TKN	< 0.5	1.3	0.66	< 0.5	mg/L	09/26/22	17:14	4500N _{org} C/NH3D	GRS
COD	25	19	15	< 10	mg/L	09/23/22	9:50	H8000	JCS
Dissolved Organic Carbon	12	9.8	7.3	5.9	mg/L	09/26/22	16:47	5310C-00	LO



QC REPORT

EAI ID#: 249419

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Dalton | Surface Water | 1003.22**

Parameter Name	Blank	LCS	LCSD	Units	Date of Analysis	Limits	RPD	Method
Sulfate	< 1	20 (98 %R)	20 (102 %R) (4 RPD)	mg/L	9/27/22	90 - 110	20	300.0
Chloride	< 1	23 (90 %R)	25 (99 %R) (9 RPD)	mg/L	9/22/22	90 - 110	20	4500CIE-11
Nitrate-N	< 0.5	4.8 (97 %R)	4.6 (93 %R) (4 RPD)	mg/L	9/22/22	90 - 110	20	353.2
Alkalinity Total (CaCO3)	< 1	11 (109 %R)	11 (108 %R) (1 RPD)	mg/L	9/26/22	85 - 115	20	2320B-11
Cyanide Total	< 0.02	0.090 (90 %R)	0.11 (105 %R) (16 RPD)	mg/L	10/3/22	84 - 116	20	ASTM D7511-09
TKN	< 0.5	10 (102 %R)	10 (102 %R) (0 RPD)	mg/L	9/26/22	90 - 111	20	4500N _{org} C/NH3D-11
COD	< 10	110 (108 %R)	110 (110 %R) (2 RPD)	mg/L	9/23/22	85 - 115	20	H8000
Dissolved Organic Carbon	< 0.5	5.1 (103 %R)	4.8 (95 %R) (7 RPD)	mg/L	9/26/22	90 - 110	20	5310C-00

*! Flagged analyte recoveries deviated from the QA/QC limits. Unless noted, flagged data does not impact the sample data.



LABORATORY REPORT

EAI ID#: 249419

Client: Sanborn, Head & Associates, Inc. (NH)

Client Designation: Dalton | Surface Water | 1003.22

Sample ID:	SG	SG	SG						
	SG-1_20220921	-3_20220921	-4_20220921	-5_20220921					
Lab Sample ID:	249419.01	249419.02	249419.03	249419.04					
Matrix:	aqueous	aqueous	aqueous	aqueous					
Date Sampled:	9/21/22	9/21/22	9/21/22	9/21/22	Analytical	Date of			
Date Received:	9/21/22	9/21/22	9/21/22	9/21/22	Matrix	Units	Analysis	Method	Analyst
Total Hardness (as CaCO3)	24	53	24	19	AqTot	mg/L	9/22/22	2340B	DS
Aluminum	0.081	< 0.05	< 0.05	0.21	AqDis	mg/L	9/22/22	200.8	DS
Antimony	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	9/22/22	200.8	DS
Arsenic	< 0.0005	< 0.0005	< 0.0005	< 0.0005	AqDis	mg/L	9/22/22	200.8	DS
Barium	0.026	0.012	0.0074	0.020	AqDis	mg/L	9/22/22	200.8	DS
Beryllium	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	9/22/22	200.8	DS
Cadmium	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	9/22/22	200.8	DS
Chromium	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	9/22/22	200.8	DS
Copper	0.0015	< 0.001	< 0.001	< 0.001	AqDis	mg/L	9/22/22	200.8	DS
Iron	0.057	< 0.05	0.12	0.19	AqDis	mg/L	9/22/22	200.8	DS
Lead	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	9/22/22	200.8	DS
Magnesium	1.1	1.7	1.1	0.92	AqDis	mg/L	9/22/22	200.8	DS
Manganese	0.018	0.012	0.094	0.029	AqDis	mg/L	9/22/22	200.8	DS
Nickel	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	9/22/22	200.8	DS
Potassium	0.93	1.3	0.94	0.13	AqDis	mg/L	9/22/22	200.8	DS
Selenium	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	9/22/22	200.8	DS
Silver	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	9/22/22	200.8	DS
Thallium	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	9/22/22	200.8	DS
Zinc	< 0.005	< 0.005	< 0.005	0.0057	AqDis	mg/L	9/22/22	200.8	DS



LABORATORY REPORT

EAI ID#: **249419**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Dalton | Surface Water | 1003.22**

Sample ID:	SG-6_20220921	SG -10_2022092	AB -1_20220921	SWDUP -1_20220921					
		1							
Lab Sample ID:	249419.05	249419.06	249419.07	249419.08					
Matrix:	aqueous	aqueous	aqueous	aqueous					
Date Sampled:	9/21/22	9/21/22	9/21/22	9/21/22	Analytical Matrix	Units	Date of Analysis	Method	Analyst
Date Received:	9/21/22	9/21/22	9/21/22	9/21/22					
Total Hardness (as CaCO3)	18	20	31	52	AqTot	mg/L	9/22/22	2340B	DS
Aluminum	0.18	< 0.05	< 0.05	< 0.05	AqDis	mg/L	9/22/22	200.8	DS
Antimony	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	9/22/22	200.8	DS
Arsenic	< 0.0005	< 0.0005	0.00055	< 0.0005	AqDis	mg/L	9/22/22	200.8	DS
Barium	0.017	0.013	0.0088	0.012	AqDis	mg/L	9/22/22	200.8	DS
Beryllium	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	9/22/22	200.8	DS
Cadmium	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	9/22/22	200.8	DS
Chromium	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	9/22/22	200.8	DS
Copper	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	9/22/22	200.8	DS
Iron	0.071	0.13	0.30	< 0.05	AqDis	mg/L	9/22/22	200.8	DS
Lead	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	9/22/22	200.8	DS
Magnesium	0.81	1.0	1.8	1.7	AqDis	mg/L	9/22/22	200.8	DS
Manganese	0.018	0.10	0.17	0.012	AqDis	mg/L	9/22/22	200.8	DS
Nickel	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	9/22/22	200.8	DS
Potassium	0.44	0.60	1.1	1.3	AqDis	mg/L	9/22/22	200.8	DS
Selenium	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	9/22/22	200.8	DS
Silver	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	9/22/22	200.8	DS
Thallium	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	9/22/22	200.8	DS
Zinc	0.0070	< 0.005	< 0.005	< 0.005	AqDis	mg/L	9/22/22	200.8	DS



QC REPORT

EAI ID#: 249419

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Dalton | Surface Water | 1003.22**

Parameter Name	Blank	LCS	LCSD	Units	Date of Analysis	Limits	RPD	Method
Aluminum	< 0.05	9.6 (96 %R)	NA	mg/L	9/22/22	85 - 115	20	200.8
Antimony	< 0.001	0.21 (106 %R)	NA	mg/L	9/22/22	85 - 115	20	200.8
Arsenic	< 0.0005	0.20 (99 %R)	NA	mg/L	9/22/22	85 - 115	20	200.8
Barium	< 0.001	0.20 (101 %R)	NA	mg/L	9/22/22	85 - 115	20	200.8
Beryllium	< 0.001	0.20 (101 %R)	NA	mg/L	9/22/22	85 - 115	20	200.8
Calcium	< 0.05	9.7 (97 %R)	NA	mg/L	9/22/22	85 - 115	20	200.8
Cadmium	< 0.001	0.20 (98 %R)	NA	mg/L	9/22/22	85 - 115	20	200.8
Chromium	< 0.001	0.19 (97 %R)	NA	mg/L	9/22/22	85 - 115	20	200.8
Copper	< 0.001	0.19 (94 %R)	NA	mg/L	9/22/22	85 - 115	20	200.8
Iron	< 0.05	9.7 (97 %R)	NA	mg/L	9/22/22	85 - 115	20	200.8
Lead	< 0.001	0.20 (98 %R)	NA	mg/L	9/22/22	85 - 115	20	200.8
Magnesium (Aqtot)	< 0.05	10 (103 %R)	NA	mg/L	9/22/22	85 - 115	20	200.8
Magnesium (Aqdis)	< 0.05	9.7 (97 %R)	NA	mg/L	9/22/22	85 - 115	20	200.8
Manganese	< 0.005	0.19 (96 %R)	NA	mg/L	9/22/22	85 - 115	20	200.8
Nickel	< 0.001	0.19 (96 %R)	NA	mg/L	9/22/22	85 - 115	20	200.8
Potassium	< 0.05	9.7 (97 %R)	NA	mg/L	9/22/22	85 - 115	20	200.8
Selenium	< 0.001	0.20 (99 %R)	NA	mg/L	9/22/22	85 - 115	20	200.8
Silver	< 0.001	0.0099 (99 %R)	NA	mg/L	9/22/22	85 - 115	20	200.8
Thallium	< 0.001	0.20 (100 %R)	NA	mg/L	9/22/22	85 - 115	20	200.8
Zinc	< 0.005	0.20 (99 %R)	NA	mg/L	9/22/22	85 - 115	20	200.8

*! Flagged analyte recoveries deviated from the QA/QC limits. Unless noted, flagged data does not impact the sample data.



Eastern Analytical, Inc.

professional laboratory and drilling services

Tim White
Sanborn, Head & Associates, Inc. (NH)
20 Foundry Street
Concord, NH 03301



Laboratory Report for:

Eastern Analytical, Inc. ID: 249284
Client Identification: Dalton | Groundwater / 1003.22
Date Received: 9/20/2022

Enclosed are the analytical results per the Chain of Custody for sample(s) in the referenced project. All analyses were performed in accordance with our QA/QC Program, NELAP and other applicable state requirements. All quality control criteria was within acceptance criteria unless noted on the report pages. Results are for the exclusive use of the client named on this report and will not be released to a third party without consent.

The following information is contained within this report: Sample Conditions summary, Analytical Results/Data, Quality Control data (if requested) and copies of the Chain of Custody. This report may not be reproduced except in full, without the written approval of the laboratory.

The following standard abbreviations and conventions apply to all EAI reports:

- < : "less than" followed by the reporting limit
- > : "greater than" followed by the reporting limit
- %R : % Recovery

Certifications:

Eastern Analytical, Inc. maintains certification in the following states: Connecticut (PH-0492), Maine (NH005), Massachusetts (M-NH005), New Hampshire/NELAP (1012), Rhode Island (269), Vermont (VT1012), New York (12072), West Virginia (9910C) and Alabama (41620). Please refer to our website at www.easternanalytical.com for a copy of our certificates and accredited parameters.


References:

- EPA 600/4-79-020, 1983
- Standard Methods for Examination of Water and Wastewater, 20th, 21st, 22nd & 23rd edition or noted revision year.
- Test Methods for Evaluating Solid Waste SW 846 3rd Edition including updates IVA and IVB
- Hach Water Analysis Handbook, 4th edition, 1992

If you have any questions regarding the results contained within, please feel free to contact customer service. Unless otherwise requested, we will dispose of the sample(s) 6 weeks from the sample receipt date.

We appreciate this opportunity to be of service and look forward to your continued patronage.

Sincerely,


Lorraine Olashaw, Lab Director

9.28.22
Date



SAMPLE CONDITIONS PAGE

EAI ID#: 249284

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Dalton | Groundwater / 1003.22**

Temperature upon receipt (°C): 1.9

Received on ice or cold packs (Yes/No): Y

Acceptable temperature range (°C): 0-6

Lab ID	Sample ID	Date Received	Date/Time Sampled	Sample Matrix	% Dry Weight	Exceptions/Comments (other than thermal preservation)
249284.01	MW-2_20220919	9/20/22	9/19/22 12:40	aqueous		Adheres to Sample Acceptance Policy
249284.02	MW-4_20220919	9/20/22	9/19/22 09:09	aqueous		Adheres to Sample Acceptance Policy
249284.03	MW-12_20220919	9/20/22	9/19/22 12:50	aqueous		Adheres to Sample Acceptance Policy
249284.04	MW-13_20220919	9/20/22	9/19/22 12:30	aqueous		Adheres to Sample Acceptance Policy
249284.05	MW-25_20220919	9/20/22	9/19/22 09:50	aqueous		Adheres to Sample Acceptance Policy
249284.06	MW-42_20220919	9/20/22	9/19/22 11:30	aqueous		Adheres to Sample Acceptance Policy
249284.07	MW-42R_20220919	9/20/22	9/19/22 12:05	aqueous		Adheres to Sample Acceptance Policy
249284.08	MW-44_20220919	9/20/22	9/19/22 09:24	aqueous		Adheres to Sample Acceptance Policy
249284.09	MW-44R_20220919	9/20/22	9/19/22 09:45	aqueous		Adheres to Sample Acceptance Policy
249284.1	TB-GW-01_20220919	9/20/22	9/19/22 13:20	aqueous		Adheres to Sample Acceptance Policy
249284.11	TB-LL-GW-01_20220919	9/20/22	9/19/22 13:20	aqueous		Adheres to Sample Acceptance Policy
249284.12	GWDup-1_20220919	9/20/22	9/19/22 09:09	aqueous		Adheres to Sample Acceptance Policy

All results contained in this report relate only to the above listed samples.

Unless otherwise noted:

- Hold times, preservation, container types, and sample conditions adhered to EPA Protocol.
- Solid samples are reported on a dry weight basis, unless otherwise noted. pH/Corrosivity, Flashpoint, Ignitability, Paint Filter, Conductivity and Specific Gravity are always reported on an "as received" basis.
- Analysis of pH, Total Residual Chlorine, Dissolved Oxygen and Sulfite were performed at the laboratory outside of the recommended 15 minute hold time.
- Samples collected by Eastern Analytical, Inc. (EAI) were collected in accordance with approved EPA procedures.



LABORATORY REPORT

EAI ID#: 249284

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Dalton | Groundwater / 1003.22**

Sample ID:	MW-2_20220919	MW-4_20220919	MW-12_20220919	MW-13_20220919
Lab Sample ID:	249284.01	249284.02	249284.03	249284.04
Matrix:	aqueous	aqueous	aqueous	aqueous
Date Sampled:	9/19/22	9/19/22	9/19/22	9/19/22
Date Received:	9/20/22	9/20/22	9/20/22	9/20/22
Units:	ug/L	ug/L	ug/L	ug/L
Date of Analysis:	9/20/22	9/20/22	9/20/22	9/20/22
Analyst:	SG	SG	SG	SG
Method:	8260C	8260C	8260C	8260C
Dilution Factor:	1	1	1	1
Dichlorodifluoromethane	< 2	< 2	< 2	< 2
Chloromethane	< 2	< 2	< 2	< 2
Vinyl chloride	< 1	< 1	< 1	< 1
Bromomethane	< 2	< 2	< 2	< 2
Chloroethane	< 2	< 2	< 2	< 2
Trichlorofluoromethane	< 2	< 2	< 2	< 2
Diethyl Ether	< 2	< 2	< 2	< 2
Acetone	< 10	< 10	< 10	< 10
1,1-Dichloroethene	< 0.5	< 0.5	< 0.5	< 0.5
tert-Butyl Alcohol (TBA)	< 30	< 30	< 30	< 30
Methylene chloride	< 1	< 1	< 1	< 1
Carbon disulfide	< 2	< 2	< 2	< 2
Methyl-t-butyl ether(MTBE)	< 1	< 1	< 1	< 1
Ethyl-t-butyl ether(ETBE)	< 2	< 2	< 2	< 2
Isopropyl ether(DIPE)	< 2	< 2	< 2	< 2
tert-amyl methyl ether(TAME)	< 2	< 2	< 2	< 2
trans-1,2-Dichloroethene	< 1	< 1	< 1	< 1
1,1-Dichloroethane	< 1	< 1	< 1	< 1
2,2-Dichloropropane	< 1	< 1	< 1	< 1
cis-1,2-Dichloroethene	< 1	< 1	< 1	< 1
2-Butanone(MEK)	< 10	< 10	< 10	< 10
Bromochloromethane	< 1	< 1	< 1	< 1
Tetrahydrofuran(THF)	< 10	< 10	< 10	< 10
Chloroform	< 1	< 1	< 1	< 1
1,1,1-Trichloroethane	< 1	< 1	< 1	< 1
Carbon tetrachloride	< 1	< 1	< 1	< 1
1,1-Dichloropropene	< 1	< 1	< 1	< 1
Benzene	< 1	< 1	< 1	< 1
1,2-Dichloroethane	< 1	< 1	< 1	< 1
Trichloroethene	< 1	< 1	< 1	< 1
1,2-Dichloropropane	< 1	< 1	< 1	< 1
Dibromomethane	< 1	< 1	< 1	< 1
Bromodichloromethane	< 0.5	< 0.5	< 0.5	< 0.5
1,4-Dioxane	< 50	< 50	< 50	< 50
4-Methyl-2-pentanone(MIBK)	< 10	< 10	< 10	< 10
cis-1,3-Dichloropropene	< 0.5	< 0.5	< 0.5	< 0.5
Toluene	< 1	< 1	< 1	< 1
trans-1,3-Dichloropropene	< 0.5	< 0.5	< 0.5	< 0.5
1,1,2-Trichloroethane	< 1	< 1	< 1	< 1
2-Hexanone	< 10	< 10	< 10	< 10
Tetrachloroethene	< 1	< 1	< 1	< 1
1,3-Dichloropropane	< 1	< 1	< 1	< 1
Dibromochloromethane	< 1	< 1	< 1	< 1
1,2-Dibromoethane(EDB)	< 0.5	< 0.5	< 0.5	< 0.5
Chlorobenzene	< 1	< 1	< 1	< 1
1,1,1,2-Tetrachloroethane	< 1	< 1	< 1	< 1



LABORATORY REPORT

EAI ID#: **249284**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Dalton | Groundwater / 1003.22**

Sample ID:	MW-2_20220919	MW-4_20220919	MW-12_20220919	MW-13_20220919
Lab Sample ID:	249284.01	249284.02	249284.03	249284.04
Matrix:	aqueous	aqueous	aqueous	aqueous
Date Sampled:	9/19/22	9/19/22	9/19/22	9/19/22
Date Received:	9/20/22	9/20/22	9/20/22	9/20/22
Units:	ug/L	ug/L	ug/L	ug/L
Date of Analysis:	9/20/22	9/20/22	9/20/22	9/20/22
Analyst:	SG	SG	SG	SG
Method:	8260C	8260C	8260C	8260C
Dilution Factor:	1	1	1	1
Ethylbenzene	< 1	< 1	< 1	< 1
mp-Xylene	< 1	< 1	< 1	< 1
o-Xylene	< 1	< 1	< 1	< 1
Styrene	< 1	< 1	< 1	< 1
Bromoform	< 2	< 2	< 2	< 2
IsoPropylbenzene	< 1	< 1	< 1	< 1
Bromobenzene	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	< 1	< 1	< 1	< 1
1,2,3-Trichloropropane	< 0.5	< 0.5	< 0.5	< 0.5
n-Propylbenzene	< 1	< 1	< 1	< 1
2-Chlorotoluene	< 1	< 1	< 1	< 1
4-Chlorotoluene	< 1	< 1	< 1	< 1
1,3,5-Trimethylbenzene	< 1	< 1	< 1	< 1
tert-Butylbenzene	< 1	< 1	< 1	< 1
1,2,4-Trimethylbenzene	< 1	< 1	< 1	< 1
sec-Butylbenzene	< 1	< 1	< 1	< 1
1,3-Dichlorobenzene	< 1	< 1	< 1	< 1
p-Isopropyltoluene	< 1	< 1	< 1	< 1
1,4-Dichlorobenzene	< 1	< 1	< 1	< 1
1,2-Dichlorobenzene	< 1	< 1	< 1	< 1
n-Butylbenzene	< 1	< 1	< 1	< 1
1,2-Dibromo-3-chloropropane	< 2	< 2	< 2	< 2
1,3,5-Trichlorobenzene	< 1	< 1	< 1	< 1
1,2,4-Trichlorobenzene	< 1	< 1	< 1	< 1
Hexachlorobutadiene	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	< 2	< 2	< 2	< 2
1,2,3-Trichlorobenzene	< 0.5	< 0.5	< 0.5	< 0.5
4-Bromofluorobenzene (surr)	98 %R	98 %R	98 %R	98 %R
1,2-Dichlorobenzene-d4 (surr)	97 %R	98 %R	98 %R	97 %R
Toluene-d8 (surr)	97 %R	98 %R	98 %R	97 %R
1,2-Dichloroethane-d4 (surr)	99 %R	100 %R	99 %R	100 %R



LABORATORY REPORT

EAI ID#: **249284**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Dalton | Groundwater / 1003.22**

Sample ID:	MW-25_20220919	MW-42_20220919	MW-42R_20220919	MW-44_20220919
Lab Sample ID:	249284.05	249284.06	249284.07	249284.08
Matrix:	aqueous	aqueous	aqueous	aqueous
Date Sampled:	9/19/22	9/19/22	9/19/22	9/19/22
Date Received:	9/20/22	9/20/22	9/20/22	9/20/22
Units:	ug/L	ug/L	ug/L	ug/L
Date of Analysis:	9/20/22	9/20/22	9/20/22	9/20/22
Analyst:	SG	SG	SG	SG
Method:	8260C	8260C	8260C	8260C
Dilution Factor:	1	1	1	1
Dichlorodifluoromethane	< 2	< 2	< 2	< 2
Chloromethane	< 2	< 2	< 2	< 2
Vinyl chloride	< 1	< 1	< 1	< 1
Bromomethane	< 2	< 2	< 2	< 2
Chloroethane	< 2	< 2	< 2	< 2
Trichlorofluoromethane	< 2	< 2	< 2	< 2
Diethyl Ether	< 2	< 2	< 2	< 2
Acetone	< 10	< 10	< 10	< 10
1,1-Dichloroethene	< 0.5	< 0.5	< 0.5	< 0.5
tert-Butyl Alcohol (TBA)	< 30	< 30	< 30	< 30
Methylene chloride	< 1	< 1	< 1	< 1
Carbon disulfide	< 2	< 2	< 2	< 2
Methyl-t-butyl ether(MTBE)	< 1	< 1	< 1	< 1
Ethyl-t-butyl ether(ETBE)	< 2	< 2	< 2	< 2
Isopropyl ether(DIPE)	< 2	< 2	< 2	< 2
tert-amyl methyl ether(TAME)	< 2	< 2	< 2	< 2
trans-1,2-Dichloroethene	< 1	< 1	< 1	< 1
1,1-Dichloroethane	< 1	< 1	< 1	< 1
2,2-Dichloropropane	< 1	< 1	< 1	< 1
cis-1,2-Dichloroethene	< 1	< 1	< 1	< 1
2-Butanone(MEK)	< 10	< 10	< 10	< 10
Bromochloromethane	< 1	< 1	< 1	< 1
Tetrahydrofuran(THF)	< 10	< 10	< 10	< 10
Chloroform	< 1	< 1	< 1	< 1
1,1,1-Trichloroethane	< 1	< 1	< 1	< 1
Carbon tetrachloride	< 1	< 1	< 1	< 1
1,1-Dichloropropene	< 1	< 1	< 1	< 1
Benzene	< 1	< 1	< 1	< 1
1,2-Dichloroethane	< 1	< 1	< 1	< 1
Trichloroethene	< 1	< 1	< 1	< 1
1,2-Dichloropropane	< 1	< 1	< 1	< 1
Dibromomethane	< 1	< 1	< 1	< 1
Bromodichloromethane	< 0.5	< 0.5	< 0.5	< 0.5
1,4-Dioxane	< 50	< 50	< 50	< 50
4-Methyl-2-pentanone(MIBK)	< 10	< 10	< 10	< 10
cis-1,3-Dichloropropene	< 0.5	< 0.5	< 0.5	< 0.5
Toluene	< 1	< 1	< 1	< 1
trans-1,3-Dichloropropene	< 0.5	< 0.5	< 0.5	< 0.5
1,1,2-Trichloroethane	< 1	< 1	< 1	< 1
2-Hexanone	< 10	< 10	< 10	< 10
Tetrachloroethene	< 1	< 1	< 1	< 1
1,3-Dichloropropane	< 1	< 1	< 1	< 1
Dibromochloromethane	< 1	< 1	< 1	< 1
1,2-Dibromoethane(EDB)	< 0.5	< 0.5	< 0.5	< 0.5
Chlorobenzene	< 1	< 1	< 1	< 1
1,1,1,2-Tetrachloroethane	< 1	< 1	< 1	< 1



LABORATORY REPORT

EAI ID#: 249284

Client: Sanborn, Head & Associates, Inc. (NH)

Client Designation: Dalton | Groundwater / 1003.22

Sample ID:	MW-25_20220919	MW-42_20220919	MW-42R_20220919	MW-44_20220919
Lab Sample ID:	249284.05	249284.06	249284.07	249284.08
Matrix:	aqueous	aqueous	aqueous	aqueous
Date Sampled:	9/19/22	9/19/22	9/19/22	9/19/22
Date Received:	9/20/22	9/20/22	9/20/22	9/20/22
Units:	ug/L	ug/L	ug/L	ug/L
Date of Analysis:	9/20/22	9/20/22	9/20/22	9/20/22
Analyst:	SG	SG	SG	SG
Method:	8260C	8260C	8260C	8260C
Dilution Factor:	1	1	1	1
Ethylbenzene	< 1	< 1	< 1	< 1
mp-Xylene	< 1	< 1	< 1	< 1
o-Xylene	< 1	< 1	< 1	< 1
Styrene	< 1	< 1	< 1	< 1
Bromoform	< 2	< 2	< 2	< 2
IsoPropylbenzene	< 1	< 1	< 1	< 1
Bromobenzene	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	< 1	< 1	< 1	< 1
1,2,3-Trichloropropane	< 0.5	< 0.5	< 0.5	< 0.5
n-Propylbenzene	< 1	< 1	< 1	< 1
2-Chlorotoluene	< 1	< 1	< 1	< 1
4-Chlorotoluene	< 1	< 1	< 1	< 1
1,3,5-Trimethylbenzene	< 1	< 1	< 1	< 1
tert-Butylbenzene	< 1	< 1	< 1	< 1
1,2,4-Trimethylbenzene	< 1	< 1	< 1	< 1
sec-Butylbenzene	< 1	< 1	< 1	< 1
1,3-Dichlorobenzene	< 1	< 1	< 1	< 1
p-Isopropyltoluene	< 1	< 1	< 1	< 1
1,4-Dichlorobenzene	< 1	< 1	< 1	< 1
1,2-Dichlorobenzene	< 1	< 1	< 1	< 1
n-Butylbenzene	< 1	< 1	< 1	< 1
1,2-Dibromo-3-chloropropane	< 2	< 2	< 2	< 2
1,3,5-Trichlorobenzene	< 1	< 1	< 1	< 1
1,2,4-Trichlorobenzene	< 1	< 1	< 1	< 1
Hexachlorobutadiene	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	< 2	< 2	< 2	< 2
1,2,3-Trichlorobenzene	< 0.5	< 0.5	< 0.5	< 0.5
4-Bromofluorobenzene (surr)	98 %R	98 %R	99 %R	97 %R
1,2-Dichlorobenzene-d4 (surr)	98 %R	98 %R	98 %R	94 %R
Toluene-d8 (surr)	96 %R	97 %R	94 %R	96 %R
1,2-Dichloroethane-d4 (surr)	101 %R	101 %R	99 %R	98 %R



LABORATORY REPORT

EAI ID#: 249284

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Dalton | Groundwater / 1003.22**

Sample ID: MW-44R_20220919 TB-GW-01_20220919 GWDup-1_20220919

Lab Sample ID:	249284.09	249284.1	249284.12
Matrix:	aqueous	aqueous	aqueous
Date Sampled:	9/19/22	9/19/22	9/19/22
Date Received:	9/20/22	9/20/22	9/20/22
Units:	ug/L	ug/L	ug/L
Date of Analysis:	9/20/22	9/20/22	9/20/22
Analyst:	SG	SG	SG
Method:	8260C	8260C	8260C
Dilution Factor:	1	1	1

Dichlorodifluoromethane	< 2	< 2	< 2
Chloromethane	< 2	< 2	< 2
Vinyl chloride	< 1	< 1	< 1
Bromomethane	< 2	< 2	< 2
Chloroethane	< 2	< 2	< 2
Trichlorofluoromethane	< 2	< 2	< 2
Diethyl Ether	< 2	< 2	< 2
Acetone	< 10	< 10	< 10
1,1-Dichloroethene	< 0.5	< 0.5	< 0.5
tert-Butyl Alcohol (TBA)	< 30	< 30	< 30
Methylene chloride	< 1	< 1	< 1
Carbon disulfide	< 2	< 2	< 2
Methyl-t-butyl ether(MTBE)	< 1	< 1	< 1
Ethyl-t-butyl ether(ETBE)	< 2	< 2	< 2
Isopropyl ether(DIPE)	< 2	< 2	< 2
tert-amyl methyl ether(TAME)	< 2	< 2	< 2
trans-1,2-Dichloroethene	< 1	< 1	< 1
1,1-Dichloroethane	< 1	< 1	< 1
2,2-Dichloropropane	< 1	< 1	< 1
cis-1,2-Dichloroethene	< 1	< 1	< 1
2-Butanone(MEK)	< 10	< 10	< 10
Bromochloromethane	< 1	< 1	< 1
Tetrahydrofuran(THF)	< 10	< 10	< 10
Chloroform	< 1	< 1	< 1
1,1,1-Trichloroethane	< 1	< 1	< 1
Carbon tetrachloride	< 1	< 1	< 1
1,1-Dichloropropene	< 1	< 1	< 1
Benzene	< 1	< 1	< 1
1,2-Dichloroethane	< 1	< 1	< 1
Trichloroethene	< 1	< 1	< 1
1,2-Dichloropropane	< 1	< 1	< 1
Dibromomethane	< 1	< 1	< 1
Bromodichloromethane	< 0.5	< 0.5	< 0.5
1,4-Dioxane	< 50	< 50	< 50
4-Methyl-2-pentanone(MIBK)	< 10	< 10	< 10
cis-1,3-Dichloropropene	< 0.5	< 0.5	< 0.5
Toluene	< 1	< 1	< 1
trans-1,3-Dichloropropene	< 0.5	< 0.5	< 0.5
1,1,2-Trichloroethane	< 1	< 1	< 1
2-Hexanone	< 10	< 10	< 10
Tetrachloroethene	< 1	< 1	< 1
1,3-Dichloropropane	< 1	< 1	< 1
Dibromochloromethane	< 1	< 1	< 1
1,2-Dibromoethane(EDB)	< 0.5	< 0.5	< 0.5
Chlorobenzene	< 1	< 1	< 1
1,1,1,2-Tetrachloroethane	< 1	< 1	< 1



LABORATORY REPORT

EAI ID#: 249284

Client: Sanborn, Head & Associates, Inc. (NH)

Client Designation: Dalton | Groundwater / 1003.22

Sample ID: MW-44R_20220919 TB-GW-01_20220919 GWDup-1_20220919

Lab Sample ID:	249284.09	249284.1	249284.12
Matrix:	aqueous	aqueous	aqueous
Date Sampled:	9/19/22	9/19/22	9/19/22
Date Received:	9/20/22	9/20/22	9/20/22
Units:	ug/L	ug/L	ug/L
Date of Analysis:	9/20/22	9/20/22	9/20/22
Analyst:	SG	SG	SG
Method:	8260C	8260C	8260C
Dilution Factor:	1	1	1
Ethylbenzene	< 1	< 1	< 1
mp-Xylene	< 1	< 1	< 1
o-Xylene	< 1	< 1	< 1
Styrene	< 1	< 1	< 1
Bromoform	< 2	< 2	< 2
IsoPropylbenzene	< 1	< 1	< 1
Bromobenzene	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	< 1	< 1	< 1
1,2,3-Trichloropropane	< 0.5	< 0.5	< 0.5
n-Propylbenzene	< 1	< 1	< 1
2-Chlorotoluene	< 1	< 1	< 1
4-Chlorotoluene	< 1	< 1	< 1
1,3,5-Trimethylbenzene	< 1	< 1	< 1
tert-Butylbenzene	< 1	< 1	< 1
1,2,4-Trimethylbenzene	< 1	< 1	< 1
sec-Butylbenzene	< 1	< 1	< 1
1,3-Dichlorobenzene	< 1	< 1	< 1
p-Isopropyltoluene	< 1	< 1	< 1
1,4-Dichlorobenzene	< 1	< 1	< 1
1,2-Dichlorobenzene	< 1	< 1	< 1
n-Butylbenzene	< 1	< 1	< 1
1,2-Dibromo-3-chloropropane	< 2	< 2	< 2
1,3,5-Trichlorobenzene	< 1	< 1	< 1
1,2,4-Trichlorobenzene	< 1	< 1	< 1
Hexachlorobutadiene	< 0.5	< 0.5	< 0.5
Naphthalene	< 2	< 2	< 2
1,2,3-Trichlorobenzene	< 0.5	< 0.5	< 0.5
4-Bromofluorobenzene (surr)	97 %R	98 %R	97 %R
1,2-Dichlorobenzene-d4 (surr)	97 %R	99 %R	98 %R
Toluene-d8 (surr)	97 %R	97 %R	97 %R
1,2-Dichloroethane-d4 (surr)	98 %R	100 %R	100 %R



QC REPORT

EAI ID#: 249284

Client: Sanborn, Head & Associates, Inc. (NH)

Batch ID: 637992-84248/A092022V82601

Client Designation: Dalton | Groundwater / 1003.22

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
Dichlorodifluoromethane	< 2	23 (117 %R)	24 (122 %R) (5 RPD)	9/20/2022	ug/L	40 - 160	20	8260C
Chloromethane	< 2	27 (135 %R)	28 (141 %R) (4 RPD)	9/20/2022	ug/L	40 - 160	20	8260C
Vinyl chloride	< 1	* 28 (142 %R)	* 31 (153 %R) (7 RPD)	9/20/2022	ug/L	70 - 130	20	8260C
Bromomethane	< 2	31 (153 %R)	* 33 (165 %R) (8 RPD)	9/20/2022	ug/L	40 - 160	20	8260C
Chloroethane	< 2	24 (118 %R)	25 (124 %R) (5 RPD)	9/20/2022	ug/L	70 - 130	20	8260C
Trichlorofluoromethane	< 2	24 (121 %R)	25 (127 %R) (5 RPD)	9/20/2022	ug/L	70 - 130	20	8260C
Diethyl Ether	< 2	18 (90 %R)	18 (92 %R) (2 RPD)	9/20/2022	ug/L	70 - 130	20	8260C
Acetone	< 10	15 (75 %R)	15 (73 %R) (3 RPD)	9/20/2022	ug/L	40 - 160	20	8260C
1,1-Dichloroethene	< 0.5	19 (96 %R)	20 (98 %R) (2 RPD)	9/20/2022	ug/L	70 - 130	20	8260C
tert-Butyl Alcohol (TBA)	< 30	84 (84 %R)	81 (81 %R) (4 RPD)	9/20/2022	ug/L	70 - 130	20	8260C
Methylene chloride	< 1	19 (94 %R)	19 (97 %R) (3 RPD)	9/20/2022	ug/L	70 - 130	20	8260C
Carbon disulfide	< 2	17 (84 %R)	17 (86 %R) (2 RPD)	9/20/2022	ug/L	70 - 130	20	8260C
Methyl-t-butyl ether(MTBE)	< 1	18 (88 %R)	18 (88 %R) (1 RPD)	9/20/2022	ug/L	70 - 130	20	8260C
Ethyl-t-butyl ether(ETBE)	< 2	18 (92 %R)	19 (94 %R) (2 RPD)	9/20/2022	ug/L	70 - 130	20	8260C
Isopropyl ether(DIPE)	< 2	18 (92 %R)	19 (94 %R) (2 RPD)	9/20/2022	ug/L	70 - 130	20	8260C
tert-amyl methyl ether(TAME)	< 2	19 (94 %R)	19 (94 %R) (0 RPD)	9/20/2022	ug/L	70 - 130	20	8260C
trans-1,2-Dichloroethene	< 1	19 (97 %R)	20 (100 %R) (3 RPD)	9/20/2022	ug/L	70 - 130	20	8260C
1,1-Dichloroethane	< 1	20 (101 %R)	21 (104 %R) (2 RPD)	9/20/2022	ug/L	70 - 130	20	8260C
2,2-Dichloropropane	< 1	23 (113 %R)	23 (113 %R) (1 RPD)	9/20/2022	ug/L	70 - 130	20	8260C
cis-1,2-Dichloroethene	< 1	20 (98 %R)	20 (100 %R) (3 RPD)	9/20/2022	ug/L	70 - 130	20	8260C
2-Butanone(MEK)	< 10	16 (79 %R)	15 (76 %R) (4 RPD)	9/20/2022	ug/L	40 - 160	20	8260C
Bromochloromethane	< 1	20 (102 %R)	21 (103 %R) (1 RPD)	9/20/2022	ug/L	70 - 130	20	8260C
Tetrahydrofuran(THF)	< 10	16 (82 %R)	16 (79 %R) (4 RPD)	9/20/2022	ug/L	70 - 130	20	8260C
Chloroform	< 1	20 (100 %R)	20 (102 %R) (2 RPD)	9/20/2022	ug/L	70 - 130	20	8260C
1,1,1-Trichloroethane	< 1	21 (105 %R)	21 (107 %R) (2 RPD)	9/20/2022	ug/L	70 - 130	20	8260C
Carbon tetrachloride	< 1	21 (106 %R)	22 (108 %R) (2 RPD)	9/20/2022	ug/L	70 - 130	20	8260C
1,1-Dichloropropene	< 1	20 (100 %R)	20 (102 %R) (2 RPD)	9/20/2022	ug/L	70 - 130	20	8260C
Benzene	< 1	20 (100 %R)	20 (102 %R) (2 RPD)	9/20/2022	ug/L	70 - 130	20	8260C
1,2-Dichloroethane	< 1	19 (96 %R)	19 (97 %R) (0 RPD)	9/20/2022	ug/L	70 - 130	20	8260C
Trichloroethene	< 1	20 (101 %R)	20 (102 %R) (1 RPD)	9/20/2022	ug/L	70 - 130	20	8260C
1,2-Dichloropropane	< 1	20 (101 %R)	21 (103 %R) (2 RPD)	9/20/2022	ug/L	70 - 130	20	8260C
Dibromomethane	< 1	19 (97 %R)	19 (96 %R) (1 RPD)	9/20/2022	ug/L	70 - 130	20	8260C
Bromodichloromethane	< 0.5	20 (102 %R)	21 (103 %R) (1 RPD)	9/20/2022	ug/L	70 - 130	20	8260C
1,4-Dioxane	< 50	< 50 (92 %R)	< 50 (88 %R) (5 RPD)	9/20/2022	ug/L	40 - 160	20	8260C
4-Methyl-2-pentanone(MIBK)	< 10	17 (85 %R)	16 (82 %R) (4 RPD)	9/20/2022	ug/L	40 - 160	20	8260C
cis-1,3-Dichloropropene	< 0.5	21 (104 %R)	21 (106 %R) (1 RPD)	9/20/2022	ug/L	70 - 130	20	8260C
Toluene	< 1	19 (97 %R)	20 (100 %R) (3 RPD)	9/20/2022	ug/L	70 - 130	20	8260C
trans-1,3-Dichloropropene	< 0.5	21 (104 %R)	21 (105 %R) (1 RPD)	9/20/2022	ug/L	70 - 130	20	8260C
1,1,2-Trichloroethane	< 1	19 (94 %R)	19 (94 %R) (0 RPD)	9/20/2022	ug/L	70 - 130	20	8260C
2-Hexanone	< 10	16 (78 %R)	15 (77 %R) (2 RPD)	9/20/2022	ug/L	40 - 160	20	8260C
Tetrachloroethene	< 1	20 (100 %R)	20 (102 %R) (2 RPD)	9/20/2022	ug/L	70 - 130	20	8260C
1,3-Dichloropropane	< 1	18 (90 %R)	18 (91 %R) (1 RPD)	9/20/2022	ug/L	70 - 130	20	8260C
Dibromochloromethane	< 1	19 (95 %R)	19 (95 %R) (1 RPD)	9/20/2022	ug/L	70 - 130	20	8260C
1,2-Dibromoethane(EDB)	< 0.5	19 (93 %R)	19 (93 %R) (1 RPD)	9/20/2022	ug/L	70 - 130	20	8260C
Chlorobenzene	< 1	20 (100 %R)	21 (103 %R) (2 RPD)	9/20/2022	ug/L	70 - 130	20	8260C
1,1,1,2-Tetrachloroethane	< 1	21 (105 %R)	21 (107 %R) (2 RPD)	9/20/2022	ug/L	70 - 130	20	8260C



QC REPORT

EAI ID#: 249284

Client: Sanborn, Head & Associates, Inc. (NH)

Batch ID: 637992-84248/A092022V82601

Client Designation: Dalton | Groundwater / 1003.22

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
Ethylbenzene	< 1	20 (101 %R)	21 (104 %R) (2 RPD)	9/20/2022	ug/L	70 - 130	20	8260C
mp-Xylene	< 1	42 (104 %R)	42 (106 %R) (2 RPD)	9/20/2022	ug/L	70 - 130	20	8260C
o-Xylene	< 1	21 (104 %R)	21 (106 %R) (2 RPD)	9/20/2022	ug/L	70 - 130	20	8260C
Styrene	< 1	21 (103 %R)	21 (106 %R) (3 RPD)	9/20/2022	ug/L	70 - 130	20	8260C
Bromoform	< 2	19 (96 %R)	19 (93 %R) (3 RPD)	9/20/2022	ug/L	70 - 130	20	8260C
IsoPropylbenzene	< 1	21 (103 %R)	21 (105 %R) (2 RPD)	9/20/2022	ug/L	70 - 130	20	8260C
Bromobenzene	< 1	19 (96 %R)	20 (99 %R) (4 RPD)	9/20/2022	ug/L	70 - 130	20	8260C
1,1,2,2-Tetrachloroethane	< 1	17 (86 %R)	17 (85 %R) (1 RPD)	9/20/2022	ug/L	70 - 130	20	8260C
1,2,3-Trichloropropane	< 0.5	17 (83 %R)	16 (82 %R) (1 RPD)	9/20/2022	ug/L	70 - 130	20	8260C
n-Propylbenzene	< 1	20 (101 %R)	21 (105 %R) (4 RPD)	9/20/2022	ug/L	70 - 130	20	8260C
2-Chlorotoluene	< 1	20 (98 %R)	21 (103 %R) (5 RPD)	9/20/2022	ug/L	70 - 130	20	8260C
4-Chlorotoluene	< 1	20 (99 %R)	21 (103 %R) (4 RPD)	9/20/2022	ug/L	70 - 130	20	8260C
1,3,5-Trimethylbenzene	< 1	20 (98 %R)	20 (102 %R) (4 RPD)	9/20/2022	ug/L	70 - 130	20	8260C
tert-Butylbenzene	< 1	20 (99 %R)	21 (103 %R) (4 RPD)	9/20/2022	ug/L	70 - 130	20	8260C
1,2,4-Trimethylbenzene	< 1	20 (100 %R)	21 (104 %R) (4 RPD)	9/20/2022	ug/L	70 - 130	20	8260C
sec-Butylbenzene	< 1	21 (104 %R)	22 (109 %R) (4 RPD)	9/20/2022	ug/L	70 - 130	20	8260C
1,3-Dichlorobenzene	< 1	20 (98 %R)	20 (101 %R) (4 RPD)	9/20/2022	ug/L	70 - 130	20	8260C
p-Isopropyltoluene	< 1	20 (102 %R)	21 (105 %R) (4 RPD)	9/20/2022	ug/L	70 - 130	20	8260C
1,4-Dichlorobenzene	< 1	19 (97 %R)	20 (100 %R) (3 RPD)	9/20/2022	ug/L	70 - 130	20	8260C
1,2-Dichlorobenzene	< 1	19 (95 %R)	20 (98 %R) (3 RPD)	9/20/2022	ug/L	70 - 130	20	8260C
n-Butylbenzene	< 1	20 (101 %R)	21 (104 %R) (3 RPD)	9/20/2022	ug/L	70 - 130	20	8260C
1,2-Dibromo-3-chloropropane	< 2	16 (81 %R)	15 (77 %R) (5 RPD)	9/20/2022	ug/L	70 - 130	20	8260C
1,3,5-Trichlorobenzene	< 1	19 (94 %R)	19 (96 %R) (2 RPD)	9/20/2022	ug/L	70 - 130	20	8260C
1,2,4-Trichlorobenzene	< 1	17 (86 %R)	17 (86 %R) (0 RPD)	9/20/2022	ug/L	70 - 130	20	8260C
Hexachlorobutadiene	< 0.5	19 (94 %R)	19 (96 %R) (2 RPD)	9/20/2022	ug/L	70 - 130	20	8260C
Naphthalene	< 2	16 (80 %R)	15 (76 %R) (5 RPD)	9/20/2022	ug/L	70 - 130	20	8260C
1,2,3-Trichlorobenzene	< 0.5	16 (80 %R)	15 (77 %R) (4 RPD)	9/20/2022	ug/L	70 - 130	20	8260C
4-Bromofluorobenzene (surr)	100 %R	100 %R	99 %R	9/20/2022	% Rec	70 - 130	20	8260C
1,2-Dichlorobenzene-d4 (surr)	96 %R	97 %R	96 %R	9/20/2022	% Rec	70 - 130	20	8260C
Toluene-d8 (surr)	98 %R	97 %R	98 %R	9/20/2022	% Rec	70 - 130	20	8260C

*! Flagged analyte recoveries deviated from the QA/QC limits. Data that impacts sample results are noted on the sample report.



LABORATORY REPORT

EAI ID#: **249284**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Dalton | Groundwater / 1003.22**

Sample ID:	MW-2_20220919	MW-4_20220919	MW-12_20220919	MW-13_20220919
Lab Sample ID:	249284.01	249284.02	249284.03	249284.04
Matrix:	aqueous	aqueous	aqueous	aqueous
Date Sampled:	9/19/22	9/19/22	9/19/22	9/19/22
Date Received:	9/20/22	9/20/22	9/20/22	9/20/22
Units:	ug/L	ug/L	ug/L	ug/L
Date of Analysis:	9/20/22	9/20/22	9/20/22	9/20/22
Analyst:	MLW	MLW	MLW	MLW
Method:	8260B SIM	8260B SIM	8260B SIM	8260B SIM
Dilution Factor:	1	1	1	1
1,4-Dioxane	< 0.25	< 0.25	< 0.25	< 0.25
4-Bromofluorobenzene (surr)	101 %R	103 %R	101 %R	101 %R
Toluene-d8 (surr)	99 %R	100 %R	99 %R	99 %R



LABORATORY REPORT

EAI ID#: **249284**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Dalton | Groundwater / 1003.22**

Sample ID:	MW-25_20220919	MW-42_20220919	MW-42R_20220919	MW-44_20220919
Lab Sample ID:	249284.05	249284.06	249284.07	249284.08
Matrix:	aqueous	aqueous	aqueous	aqueous
Date Sampled:	9/19/22	9/19/22	9/19/22	9/19/22
Date Received:	9/20/22	9/20/22	9/20/22	9/20/22
Units:	ug/L	ug/L	ug/L	ug/L
Date of Analysis:	9/20/22	9/20/22	9/20/22	9/20/22
Analyst:	MLW	MLW	MLW	MLW
Method:	8260B SIM	8260B SIM	8260B SIM	8260B SIM
Dilution Factor:	1	1	1	1
1,4-Dioxane	< 0.25	< 0.25	< 0.25	< 0.25
4-Bromofluorobenzene (surr)	101 %R	101 %R	117 %R	102 %R
Toluene-d8 (surr)	100 %R	99 %R	105 %R	99 %R



LABORATORY REPORT

EAI ID#: **249284**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Dalton | Groundwater / 1003.22**

Sample ID: MW-44R_20220919 TB-LL-GW-01_20220919 GWDup-1_20220919

Lab Sample ID:	249284.09	249284.11	249284.12
Matrix:	aqueous	aqueous	aqueous
Date Sampled:	9/19/22	9/19/22	9/19/22
Date Received:	9/20/22	9/20/22	9/20/22
Units:	ug/L	ug/L	ug/L
Date of Analysis:	9/20/22	9/20/22	9/20/22
Analyst:	MLW	MLW	MLW
Method:	8260B SIM	8260B SIM	8260B SIM
Dilution Factor:	1	1	1
1,4-Dioxane	< 0.25	< 0.25	< 0.25
4-Bromofluorobenzene (surr)	101 %R	102 %R	102 %R
Toluene-d8 (surr)	98 %R	99 %R	100 %R



QC REPORT

EAI ID#: **249284**

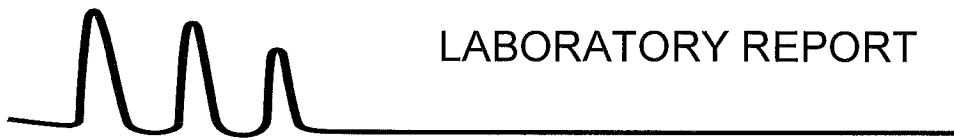
Client: **Sanborn, Head & Associates, Inc. (NH)**

Batch ID: 637992-76989/A092022DIOX1

Client Designation: **Dalton | Groundwater / 1003.22**

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
1,4-Dioxane	< 0.2	4.9 (98 %R)	4.8 (97 %R) (1 RPD)	9/20/2022	ug/L	70 - 130	20	8260B
4-Bromofluorobenzene (surr)	102 %R	102 %R	102 %R	9/20/2022	% Rec	70 - 130	50	8260B
Toluene-d8 (surr)	100 %R	102 %R	101 %R	9/20/2022	% Rec	70 - 130	50	8260B

*! Flagged analyte recoveries deviated from the QA/QC limits. Data that impacts sample results are noted on the sample report.



LABORATORY REPORT

EAI ID#: **249284**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Dalton | Groundwater / 1003.22**

Sample ID:	MW-2_20220919	MW-4_20220919	MW-12_20220919	MW-13_20220919
Lab Sample ID:	249284.01	249284.02	249284.03	249284.04
Matrix:	aqueous	aqueous	aqueous	aqueous
Date Sampled:	9/19/22	9/19/22	9/19/22	9/19/22
Date Received:	9/20/22	9/20/22	9/20/22	9/20/22
Units:	ug/L	ug/L	ug/L	ug/L
Date of Extraction/Prep:	9/20/22	9/20/22	9/20/22	9/20/22
Date of Analysis:	9/21/22	9/21/22	9/21/22	9/21/22
Analyst:	WOD	WOD	WOD	WOD
Method:	8011/504	8011/504	8011/504	8011/504
Dilution Factor:	1	1	1	1
1,2-Dibromoethane(EDB)	< 0.02	< 0.02	< 0.02	< 0.02
Dibromochloropropane (DBCP)	< 0.02	< 0.02	< 0.02	< 0.02
1,1,1,2-Tetrachloroethane (surr)	91 %R	97 %R	96 %R	94 %R



LABORATORY REPORT

EAI ID#: **249284**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Dalton | Groundwater / 1003.22**

Sample ID:	MW-25_20220919	MW-42_20220919	MW-42R_20220919	MW-44_20220919
Lab Sample ID:	249284.05	249284.06	249284.07	249284.08
Matrix:	aqueous	aqueous	aqueous	aqueous
Date Sampled:	9/19/22	9/19/22	9/19/22	9/19/22
Date Received:	9/20/22	9/20/22	9/20/22	9/20/22
Units:	ug/L	ug/L	ug/L	ug/L
Date of Extraction/Prep:	9/20/22	9/20/22	9/20/22	9/20/22
Date of Analysis:	9/21/22	9/21/22	9/21/22	9/21/22
Analyst:	WOD	WOD	WOD	WOD
Method:	8011/504	8011/504	8011/504	8011/504
Dilution Factor:	1	1	1	1
1,2-Dibromoethane(EDB)	< 0.02	< 0.02	< 0.02	< 0.02
Dibromochloropropane (DBCP)	< 0.02	< 0.02	< 0.02	< 0.02
1,1,1,2-Tetrachloroethane (surr)	92 %R	91 %R	94 %R	94 %R



LABORATORY REPORT

EAI ID#: **249284**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Dalton | Groundwater / 1003.22**

Sample ID: MW-44R_20220919 GWDup-1_20220919

Lab Sample ID:	249284.09	249284.12
Matrix:	aqueous	aqueous
Date Sampled:	9/19/22	9/19/22
Date Received:	9/20/22	9/20/22
Units:	ug/L	ug/L
Date of Extraction/Prep:	9/20/22	9/20/22
Date of Analysis:	9/21/22	9/21/22
Analyst:	WOD	WOD
Method:	8011/504	8011/504
Dilution Factor:	1	1
1,2-Dibromoethane(EDB)	< 0.02	< 0.02
Dibromochloropropane (DBCP)	< 0.02	< 0.02
1,1,1,2-Tetrachloroethane (surr)	95 %R	103 %R



QC REPORT

EAI ID#: **249284**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Batch ID: 637992-82322/A092122E5041

Client Designation: **Dalton | Groundwater / 1003.22**

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
1,2-Dibromoethane(EDB)	< 0.02	0.097 (97 %R)	0.092 (92 %R) (4 RPD)	9/21/2022	ug/L	70 - 130	20	8011/504
Dibromochloropropane (DBCP)	< 0.02	0.090 (90 %R)	0.086 (86 %R) (5 RPD)	9/21/2022	ug/L	70 - 130	20	8011/504
1,1,1,2-Tetrachloroethane (surr)	86 %R	88 %R	85 %R	9/21/2022	% Rec	65 - 135	20	8011/504

*! Flagged analyte recoveries deviated from the QA/QC limits. Data that impacts sample results are noted on the sample report.



LABORATORY REPORT

EAI ID#: 249284

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Dalton | Groundwater / 1003.22**

Sample ID:	MW-2_20220919	MW -4_20220919	MW -12_20220919	MW -13_20220919		Analysis			
Lab Sample ID:	249284.01	249284.02	249284.03	249284.04	Units	Date	Time	Method	Analyst
Matrix:	aqueous	aqueous	aqueous	aqueous					
Date Sampled:	9/19/22	9/19/22	9/19/22	9/19/22					
Date Received:	9/20/22	9/20/22	9/20/22	9/20/22					
Sulfate	5	5.4	5.3	3.8	mg/L	09/20/22	18:52	300.0	KEF
Chloride	1.8	< 1	< 1	< 1	mg/L	09/20/22	10:48	4500CIE-11	KEF
Nitrate-N	< 0.5	< 0.5	< 0.5	< 0.5	mg/L	09/20/22	10:48	353.2	KEF
TKN	< 0.5	0.52	< 0.5	< 0.5	mg/L	09/22/22	15:27	4500N _{org} C/NH3D	OJ
COD	< 10	< 10	< 10	< 10	mg/L	09/20/22	16:20	H8000	JCS
Dissolved Organic Carbon	0.85	1.2	0.94	1.4	mg/L	09/22/22	12:03	5310C-00	LO

Sample ID:	MW-25_20220919	MW -42_20220919	MW -42R_20220919	MW -44_20220919		Analysis			
Lab Sample ID:	249284.05	249284.06	249284.07	249284.08	Units	Date	Time	Method	Analyst
Matrix:	aqueous	aqueous	aqueous	aqueous					
Date Sampled:	9/19/22	9/19/22	9/19/22	9/19/22					
Date Received:	9/20/22	9/20/22	9/20/22	9/20/22					
Sulfate	11	3.7	40	4.4	mg/L	09/20/22	19:45	300.0	KEF
Chloride	< 1	< 1	4	< 1	mg/L	09/20/22	11:06	4500CIE-11	KEF
Nitrate-N	< 0.5	< 0.5	< 0.5	< 0.5	mg/L	09/20/22	11:06	353.2	KEF
TKN	< 0.5	< 0.5	< 0.5	0.59	mg/L	09/22/22	15:51	4500N _{org} C/NH3D	OJ
COD	< 10	< 10	11	< 10	mg/L	09/20/22	16:20	H8000	JCS
Dissolved Organic Carbon	1.2	1.2	6.4	1.2	mg/L	09/22/22	12:57	5310C-00	LO



LABORATORY REPORT

EAI ID#: 249284

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Dalton | Groundwater / 1003.22**

Sample ID: MW GWDup
 -44R_20220919 -1_20220919

Lab Sample ID: 249284.09 249284.12

Matrix: aqueous aqueous

Date Sampled: 9/19/22 9/19/22

Date Received: 9/20/22 9/20/22

Sulfate	5.3	5.1
Chloride	< 1	< 1
Nitrate-N	< 0.5	< 0.5
TKN	< 0.5	< 0.5
COD	< 10	< 10
Dissolved Organic Carbon	1.0	1.8

Units	Analysis		Method	Analyst
	Date	Time		
mg/L	9/20/22	16:24	300.0	KEF
mg/L	9/20/22	11:12	4500CIE-11	KEF
mg/L	9/20/22	11:12	353.2	KEF
mg/L	9/22/22	16:02	4500N _{ora} C/NH3D	OJ
mg/L	9/20/22	16:20	H8000	JCS
mg/L	9/22/22	15:12	5310C-00	LO



QC REPORT

EAI ID#: 249284

Client: Sanborn, Head & Associates, Inc. (NH)

Client Designation: Dalton | Groundwater / 1003.22

Parameter Name	Blank	LCS	LCSD	Units	Date of Analysis	Limits	RPD	Method
Sulfate	< 1	20 (102 %R)	22 (109 %R) (7 RPD)	mg/L	9/20/22	90 - 110	20	300.0
Chloride	< 1	25 (99 %R)	26 (102 %R) (3 RPD)	mg/L	9/20/22	90 - 110	20	4500CIE-11
Nitrate-N	< 0.5	4.9 (99 %R)	5.0 (100 %R) (1 RPD)	mg/L	9/20/22	90 - 110	20	353.2
TKN	< 0.5	9.7 (97 %R)	9.9 (99 %R) (1 RPD)	mg/L	9/22/22	90 - 111	20	4500N _{ord} C/NH3D-11
COD	< 10	110 (108 %R)	110 (108 %R) (0 RPD)	mg/L	9/20/22	85 - 115	20	H8000
Dissolved Organic Carbon	< 0.5	4.7 (95 %R)	5.2 (105 %R) (10 RPD)	mg/L	9/22/22	90 - 110	20	5310C-00

*/I Flagged analyte recoveries deviated from the QA/QC limits. Unless noted, flagged data does not impact the sample data.



LABORATORY REPORT

EAI ID#: 249284

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Dalton | Groundwater / 1003.22**

Sample ID:	MW-2_20220919	MW -4_20220919	GWDup -1_20220919						
Lab Sample ID:	249284.01	249284.02	249284.12						
Matrix:	aqueous	aqueous	aqueous						
Date Sampled:	9/19/22	9/19/22	9/19/22						
Date Received:	9/20/22	9/20/22	9/20/22						
				Analytical Matrix	Units	Date of Analysis	Method	Analyst	
Iron	< 0.05	< 0.05	< 0.05	AqDis	mg/L	9/20/22	200.8	DS	
Manganese	< 0.005	< 0.005	< 0.005	AqDis	mg/L	9/20/22	200.8	DS	



LABORATORY REPORT

EAI ID#: **249284**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Dalton | Groundwater / 1003.22**

Sample ID:	MW-12_20220919	MW -13_20220919	MW -25_20220919	MW -42_20220919					
Lab Sample ID:	249284.03	249284.04	249284.05	249284.06					
Matrix:	aqueous	aqueous	aqueous	aqueous					
Date Sampled:	9/19/22	9/19/22	9/19/22	9/19/22	Analytical Matrix	Units	Date of Analysis	Method	Analyst
Date Received:	9/20/22	9/20/22	9/20/22	9/20/22					
Aluminum	< 0.05	< 0.05	< 0.05	0.069	AqDis	mg/L	9/20/22	200.8	DS
Antimony	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	9/20/22	200.8	DS
Arsenic	0.00056	< 0.0005	0.00063	< 0.0005	AqDis	mg/L	9/20/22	200.8	DS
Barium	0.015	0.016	0.017	0.020	AqDis	mg/L	9/20/22	200.8	DS
Beryllium	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	9/20/22	200.8	DS
Calcium	6.1	2.7	12	2.8	AqDis	mg/L	9/20/22	200.8	DS
Cadmium	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	9/20/22	200.8	DS
Chromium	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	9/20/22	200.8	DS
Copper	0.0088	0.0013	< 0.001	0.0041	AqDis	mg/L	9/20/22	200.8	DS
Iron	< 0.05	< 0.05	< 0.05	< 0.05	AqDis	mg/L	9/20/22	200.8	DS
Lead	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	9/20/22	200.8	DS
Manganese	< 0.005	< 0.005	0.26	0.031	AqDis	mg/L	9/20/22	200.8	DS
Nickel	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	9/20/22	200.8	DS
Selenium	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	9/20/22	200.8	DS
Silver	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	9/20/22	200.8	DS
Thallium	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	9/20/22	200.8	DS
Zinc	0.0057	< 0.005	< 0.005	< 0.005	AqDis	mg/L	9/20/22	200.8	DS



LABORATORY REPORT

EAI ID#: **249284**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Dalton | Groundwater / 1003.22**

Sample ID: MW-44_20220919

Lab Sample ID: 249284.08

Matrix: aqueous

Date Sampled: 9/19/22

Date Received: 9/20/22

		Analytical Matrix	Units	Date of Analysis	Method	Analyst
Aluminum	< 0.05	AqDis	mg/L	9/20/22	200.8	DS
Antimony	< 0.001	AqDis	mg/L	9/20/22	200.8	DS
Arsenic	< 0.0005	AqDis	mg/L	9/20/22	200.8	DS
Barium	0.016	AqDis	mg/L	9/20/22	200.8	DS
Beryllium	< 0.001	AqDis	mg/L	9/20/22	200.8	DS
Calcium	5.6	AqDis	mg/L	9/20/22	200.8	DS
Cadmium	< 0.001	AqDis	mg/L	9/20/22	200.8	DS
Chromium	< 0.001	AqDis	mg/L	9/20/22	200.8	DS
Copper	0.0027	AqDis	mg/L	9/20/22	200.8	DS
Iron	< 0.05	AqDis	mg/L	9/20/22	200.8	DS
Lead	< 0.001	AqDis	mg/L	9/20/22	200.8	DS
Manganese	0.018	AqDis	mg/L	9/20/22	200.8	DS
Nickel	< 0.001	AqDis	mg/L	9/20/22	200.8	DS
Selenium	< 0.001	AqDis	mg/L	9/20/22	200.8	DS
Silver	< 0.001	AqDis	mg/L	9/20/22	200.8	DS
Thallium	< 0.001	AqDis	mg/L	9/20/22	200.8	DS
Zinc	< 0.005	AqDis	mg/L	9/20/22	200.8	DS



LABORATORY REPORT

EAI ID#: **249284**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Dalton | Groundwater / 1003.22**

Sample ID: MW-42R_20220919 MW
 -44R_202209
 19

Lab Sample ID: 249284.07 249284.09

Matrix: aqueous aqueous

Date Sampled: 9/19/22 9/19/22

Date Received: 9/20/22 9/20/22

			Analytical Matrix	Units	Date of Analysis	Method	Analyst
Aluminum	2.1	0.10	AqTot	mg/L	9/21/22	200.8	DS
Antimony	0.0012	< 0.001	AqTot	mg/L	9/21/22	200.8	DS
Arsenic	0.0026	< 0.0005	AqTot	mg/L	9/21/22	200.8	DS
Barium	0.040	0.012	AqTot	mg/L	9/21/22	200.8	DS
Beryllium	< 0.001	< 0.001	AqTot	mg/L	9/21/22	200.8	DS
Calcium	26	21	AqTot	mg/L	9/21/22	200.8	DS
Cadmium	< 0.001	< 0.001	AqTot	mg/L	9/21/22	200.8	DS
Chromium	0.0079	< 0.001	AqTot	mg/L	9/21/22	200.8	DS
Copper	0.0053	0.0011	AqTot	mg/L	9/21/22	200.8	DS
Iron	2.6	0.11	AqTot	mg/L	9/21/22	200.8	DS
Lead	0.0025	0.0036	AqTot	mg/L	9/21/22	200.8	DS
Manganese	0.67	0.0097	AqTot	mg/L	9/21/22	200.8	DS
Nickel	0.0048	< 0.001	AqTot	mg/L	9/21/22	200.8	DS
Selenium	< 0.001	< 0.001	AqTot	mg/L	9/21/22	200.8	DS
Silver	< 0.001	< 0.001	AqTot	mg/L	9/21/22	200.8	DS
Thallium	< 0.001	< 0.001	AqTot	mg/L	9/21/22	200.8	DS
Zinc	0.011	< 0.005	AqTot	mg/L	9/21/22	200.8	DS



QC REPORT

EAI ID#: 249284

Client: Sanborn, Head & Associates, Inc. (NH)

Client Designation: Dalton | Groundwater / 1003.22

Parameter Name	Blank	LCS	LCSD	Units	Date of Analysis	Limits	RPD	Method
Aluminum (Aqdis)	< 0.05	9.9 (99 %R)	NA	mg/L	9/20/22	85 - 115	20	200.8
Aluminum	< 0.05	10 (104 %R)	NA	mg/L	9/21/22	85 - 115	20	200.8
Antimony (Aqdis)	< 0.001	0.20 (98 %R)	NA	mg/L	9/20/22	85 - 115	20	200.8
Antimony	< 0.001	0.38 (96 %R)	NA	mg/L	9/21/22	85 - 115	20	200.8
Arsenic (Aqdis)	< 0.0005	0.21 (104 %R)	NA	mg/L	9/20/22	85 - 115	20	200.8
Arsenic	< 0.0005	0.41 (103 %R)	NA	mg/L	9/21/22	85 - 115	20	200.8
Barium (Aqdis)	< 0.001	0.20 (100 %R)	NA	mg/L	9/20/22	85 - 115	20	200.8
Barium	< 0.001	0.39 (98 %R)	NA	mg/L	9/21/22	85 - 115	20	200.8
Beryllium (Aqdis)	< 0.001	0.19 (95 %R)	NA	mg/L	9/20/22	85 - 115	20	200.8
Beryllium	< 0.001	0.39 (98 %R)	NA	mg/L	9/21/22	85 - 115	20	200.8
Calcium (Aqdis)	< 0.05	10 (100 %R)	NA	mg/L	9/20/22	85 - 115	20	200.8
Calcium	< 0.05	10 (102 %R)	NA	mg/L	9/21/22	85 - 115	20	200.8
Cadmium (Aqdis)	< 0.001	0.20 (100 %R)	NA	mg/L	9/20/22	85 - 115	20	200.8
Cadmium	< 0.001	0.41 (102 %R)	NA	mg/L	9/21/22	85 - 115	20	200.8
Chromium (Aqdis)	< 0.001	0.20 (99 %R)	NA	mg/L	9/20/22	85 - 115	20	200.8
Chromium	< 0.001	0.40 (100 %R)	NA	mg/L	9/21/22	85 - 115	20	200.8
Copper (Aqdis)	< 0.001	0.20 (98 %R)	NA	mg/L	9/20/22	85 - 115	20	200.8
Copper	< 0.001	0.40 (100 %R)	NA	mg/L	9/21/22	85 - 115	20	200.8
Iron (Aqdis)	< 0.05	9.7 (97 %R)	NA	mg/L	9/20/22	85 - 115	20	200.8
Iron	< 0.05	9.8 (98 %R)	NA	mg/L	9/21/22	85 - 115	20	200.8
Lead (Aqdis)	< 0.001	0.20 (101 %R)	NA	mg/L	9/20/22	85 - 115	20	200.8
Lead	< 0.001	0.41 (102 %R)	NA	mg/L	9/21/22	85 - 115	20	200.8
Manganese (Aqdis)	< 0.005	0.20 (98 %R)	NA	mg/L	9/20/22	85 - 115	20	200.8
Manganese	< 0.005	0.38 (95 %R)	NA	mg/L	9/21/22	85 - 115	20	200.8
Nickel (Aqdis)	< 0.001	0.20 (101 %R)	NA	mg/L	9/20/22	85 - 115	20	200.8
Nickel	< 0.001	0.41 (101 %R)	NA	mg/L	9/21/22	85 - 115	20	200.8
Selenium (Aqdis)	< 0.001	0.20 (98 %R)	NA	mg/L	9/20/22	85 - 115	20	200.8
Selenium	< 0.001	0.38 (96 %R)	NA	mg/L	9/21/22	85 - 115	20	200.8
Silver (Aqdis)	< 0.001	0.010 (103 %R)	NA	mg/L	9/20/22	85 - 115	20	200.8
Silver	< 0.001	0.021 (103 %R)	NA	mg/L	9/21/22	85 - 115	20	200.8
Thallium (Aqdis)	< 0.001	0.20 (101 %R)	NA	mg/L	9/20/22	85 - 115	20	200.8
Thallium	< 0.001	0.40 (99 %R)	NA	mg/L	9/21/22	85 - 115	20	200.8
Zinc (Aqdis)	< 0.005	0.20 (100 %R)	NA	mg/L	9/20/22	85 - 115	20	200.8
Zinc	< 0.005	0.39 (98 %R)	NA	mg/L	9/21/22	85 - 115	20	200.8

*/I Flagged analyte recoveries deviated from the QA/QC limits. Unless noted, flagged data does not impact the sample data.

Chain-of-Custody Record

249284

Sample ID	Sampling Date/Time *If Composite, Indicate Both Start & Finish Date/Time	Matrix (see below)	Grab/*Composite	Analyses Requested													# of Containers	NOTES MeOH Vial #							
				VOCs - EPA 8260C	Low Level 1,4-Dioxane (USEPA 8260B-SM)	Low Level EDB/DBCP (604.1)	SVOCs (EPA 8270D)	COD (SM 8220D)	DOC (5310C)	Chloride, Nitrate, Sulfate (EPA 300.0)	TKN (SM4500NorgCINH3D)	Dissolved Metals List A (EPA 200.8)	Dissolved Metals List B (EPA 200.8)	Total Metals List A (EPA 200.8)	Total Metals List B (EPA 200.8)										
MW-2 _20220919	9/19/22 1240	GW	G	X	X	X	X	X	X	X	X	X												10	
4	0909	GW	G									X													
12	1250	GW	G										X												
13	1230	GW	G										X												
25	0950	GW	G										X												
42	1130	GW	G										X												
42R	1205	GW	G										X	X										11	Dis. Metals on HOLD
44	0924	GW	G										X											10	
44R	0945	GW	G		✓	✓	✓	✓	✓	✓	✓	✓	X	X										11	Dis. Metals on HOLD
TB-GW-01	1320	GW	G	✓																				2	

Matrix: A-Air; S-Soil; GW-Ground Water; SW-Surface Water; DW-Drinking Water; WW-Waste Water; AQ-Aqueous
 Preservative: H-HCl; N-HNO3; S-H2SO4; Na-NaOH; M-MeOH; NSO-Na2S2O3

Project Manager: T. White
 Company: Sanborn, Head & Associates, Inc.
 Address: 20 Foundry Street
 City: Concord State: NH Zip: 03301
 Phone: 603-229-1900 Ext.:
 Fax: 603-229-1919
 E-Mail: twhite@sanbornhead.com
 Site Name: Dalton | Groundwater
 Project #: 1003.22
 State: NH
 Regulatory Program: NPDES: RGP POTW Stormwater or GWP, Oil Fund, Brownfield or Other:
 Quote #: PO#:

Date Needed: Standard TAT
 Temp. 19 °C
 QA/QC
 Reporting Level: A B C
 Reporting Options: Prelims: Yes or No; If Yes: Fax or PDF
 Electronic Options: No Fax, E-Mail, PDF, Equis
 Presumptive Certainty
 Sampler(s): MTS, PSP, TGD, CLB (9/20/22)
 Relinquished By: [Signature] Date: 9/19/22 Time: 1600
 Relinquished By: [Signature] Date: 9/24/22 Time: 0800
 Relinquished By: _____ Date: _____ Time: _____ Received By: _____

Metals: Lists Below Samples Field Filtered: YES
 A: Fe, Mn
 B: Fe, Mn, As, Al, Sb, Ba, Be, Ca, Cd, Cr, Cu, Pb, Ni, Ag, Ti, Zn, Se
 Notes: (i.e., Special Detection Limits, Billing Info, If Different)
 Trip blank(s) prepared by EAI.
 Bill GSL.
 *Lab to filter DOC
 *Report 1,4-dioxane to 0.25 ug/l RL
 *Hold Final report until EQUIS EDD ready.
 Site History: _____
 Suspected Contamination: _____
 Field Readings: _____



51 Antrim Ave | Concord, NH 03301 | Tel: 603.228.0525 | 1.800.287.0525 | Fax: 603.228.4591 | E-Mail: customerservice@eailabs.com | www.eailabs.com

Chain-of-Custody Record

For 249284

Sample ID	Sampling Date/Time *If Composite, Indicate Both Start & Finish Date/Time	Matrix (see below)	Grab/*Composite	Analyses Requested												# of Containers	NOTES MeOH Vial #				
				VOCs - EPA 8260C	Low Level 1,4-Dioxane (USEPA 8260B-SIM)	Low Level EDB/DBCP (604.1)	SVOCs (EPA 8270D)	COD (SM 5220D)	DOC (6310C)	Chloride, Nitrate, Sulfate (EPA 300.0)	TKN (SM4500Norg/C/NH3D)	Dissolved Metals List A (EPA 200.8)	Dissolved Metals List B (EPA 200.8)	Total Metals List A (EPA 200.8)	Total Metals List B (EPA 200.8)						
TB-LL-GW-01_20220919	9/19/22 1320	GW	G		X														2		
GW DUP-1_20220919	9/19/22 0909	GW	G	X	X	X		X	X	X	X	X								10	
		GW	G																		
		GW	G																		
		GW	G																		
		GW	G																		
		GW	G																		
		GW	G																		
		GW	G																		
		GW	G																		
Matrix: A-Air; S-Soil; GW-Ground Water; SW-Surface Water; DW-Drinking Water; WW-Waste Water; AQ-Aqueous Preservative: H-HCl; N-HNO3; S-H2SO4; Na-NaOH; M-MeOH; NSO-Na2S2O3				H	Ice	NSO	Ice	S	Ice	S	S	N	N	N	N						

Project Manager: T. White
 Company: Sanborn, Head & Associates, Inc.
 Address: 20 Foundry Street
 City: Concord State: NH Zip: 03301
 Phone: 603-229-1900 Ext.:
 Fax: 603-229-1919
 E-Mail: twhite@sanbornhead.com
 Site Name: Dalton | Groundwater
 Project #: 1003.22
 State: NH
 Regulatory Program: NPDES: RGP POTW Stormwater or GWP, Oil Fund, Brownfield or Other.
 Quote #: PO#:

Date Needed: Standard TAT
 Temp. 1-9 °C
 QA/QC Reporting Level: A B C
 Reporting Options: Prelims: Yes or No; Fax or PDF
 Electronic Options: No Fax E-Mail PDF Equis
 Presumptive Certainty
 Sampler(s): MIS, PJP, TGD, CLB
 Relinquished By: [Signature] Date: 9/19/22 Time: 1600 Received By: [Signature]
 Relinquished By: [Signature] Date: 9/22/22 Time: 0817 Received By: [Signature]
 Relinquished By: _____ Date: _____ Time: _____ Received By: _____

Metals: Lists Below Samples Field Filtered: YES
 A: Fe, Mn
 B: Fe, Mn, As, Al, Sb, Ba, Be, Ca, Cd, Cr, Cu, Pb, Ni, Ag, Ti, Zn, Se
 Notes: (i.e., Special Detection Limits, Billing Info, If Different)
 Trip blank(s) prepared by EAI.
 Bill GSL.
 *Lab to filter DOC
 *Report 1,4-dioxane to 0.25 ug/l RL
 *Hold Final report until EQUIS EDD ready.
 Suspected Contamination: _____
 Field Readings: _____



51 Antrim Ave | Concord, NH 03301 | Tel: 603.228.0525 | 1.800.287.0525 | Fax: 603.228.4591 | E-Mail: customerservice@eailabs.com | www.eailabs.com



Eastern Analytical, Inc.

professional laboratory and drilling services

Tim White

Sanborn, Head & Associates, Inc. (NH)

20 Foundry Street

Concord, NH 03301



Subject: Laboratory Report

Eastern Analytical, Inc. ID: 249379

Client Identification: Dalton | PFAS / 1003.22

Date Received: 9/21/2022

Dear Mr. White :

Enclosed please find the report of analysis for the above identified project. As discussed, analyses were subcontracted and are listed as follows:

Analysis: Subcontract - PFAS EPA 537mod (9 Compounds)

Subcontractor Lab: Vista Analytical Laboratory

A complete copy of the report is attached. This report may not be reproduced except in full, without the written approval of the laboratory.

We appreciate this opportunity to be of service and look forward to your continued patronage.

Sincerely,

Lorraine Olashaw, Lab Director

10.20.22

Date



SAMPLE CONDITIONS PAGE

EAI ID#: 249379

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Dalton | PFAS / 1003.22**

Temperature upon receipt (°C): **0.3**

Received on ice or cold packs (Yes/No): **Y**

Acceptable temperature range (°C): 0-6

Lab ID	Sample ID	Date Received	Date/Time Sampled	Sample Matrix	% Dry Weight	Exceptions/Comments (other than thermal preservation)
249379.01	MW-41_20220920	9/21/22	9/20/22 09:27	aqueous		Adheres to Sample Acceptance Policy
249379.02	MW-42_20220919	9/21/22	9/19/22 11:30	aqueous		Adheres to Sample Acceptance Policy
249379.03	FB-01_20220920	9/21/22	9/20/22 09:30	aqueous		Adheres to Sample Acceptance Policy

All results contained in this report relate only to the above listed samples.

Unless otherwise noted:

- Hold times, preservation, container types, and sample conditions adhered to EPA Protocol.
- Solid samples are reported on a dry weight basis, unless otherwise noted. pH/Corrosivity, Flashpoint, Ignitability, Paint Filter, Conductivity and Specific Gravity are always reported on an "as received" basis.
- Analysis of pH, Total Residual Chlorine, Dissolved Oxygen and Sulfite were performed at the laboratory outside of the recommended 15 minute hold time.
- Samples collected by Eastern Analytical, Inc. (EAI) were collected in accordance with approved EPA procedures.



October 14, 2022 .

Vista Work Order No. 2209187

Ms. Jennifer Laramie
Eastern Analytical, Inc.
51 Antrim Avenue
Concord, NH 03301

Dear Ms. Laramie,

Enclosed are the results for the sample set received at Vista Analytical Laboratory on September 23, 2022 under your Project Name '249379 NH 5379'.

Vista Analytical Laboratory is committed to serving you effectively. If you require additional information, please contact me at 916-673-1520 or by email at frschwebel@enthalpy.com.

Thank you for choosing Vista as part of your analytical support team.

Sincerely,

Frieda Schwebel
Project Manager



Vista Analytical Laboratory certifies that the report herein meets all the requirements set forth by NELAP for those applicable test methods. Results relate only to the samples as received by the laboratory. This report should not be reproduced except in full without the written approval of Vista.

Vista Work Order No. 2209187

Case Narrative

Sample Condition on Receipt:

Three aqueous samples were received and stored securely in accordance with Vista standard operating procedures and EPA methodology. The samples were received in good condition and within the recommended temperature requirements. Sample ID discrepancies were noted for the samples between their container label and the Chain-of-Custody (CoC). The sample IDs have been reported as listed on the CoC.

Analytical Notes:

PFAS Isotope Dilution/LC-MSMS Method Compliant with Table B-15 of DoD QSM 5.3 (Aqueous)

The samples were extracted and analyzed for a selected list of PFAS using Isotope Dilution and LC-MS/MS compliant with Table B-15 of DoD QSM 5.3. The results for PFHxS, PFOA and PFOS include both linear and branched isomers. Results for all other analytes include the linear isomers only.

Holding Times

The samples were extracted and analyzed within the hold times.

Quality Control

The Initial Calibration and Continuing Calibration Verifications met the method acceptance criteria.

A Method Blank and Ongoing Precision and Recovery (OPR) sample were extracted and analyzed with the preparation batch. No analytes were detected in the Method Blank above the Reporting Limits (RL). The OPR recoveries were within the method acceptance criteria.

The labeled standard recoveries for all QC and field samples were within the acceptance criteria.

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Sample Inventory Report



Vista Sample ID	Client Sample ID	Sampled	Received	Components/Containers
2209187-01	MW-41_20220920	20-Sep-22 09:27	23-Sep-22 10:07	Polypropylene, 250mL Polypropylene, 250mL
2209187-02	MW-42_20220919	19-Sep-22 11:30	23-Sep-22 10:07	Polypropylene, 250mL Polypropylene, 250mL
2209187-03	FB-01_20220920	20-Sep-22 09:30	23-Sep-22 10:07	Polypropylene, 250mL

ANALYTICAL RESULTS

Sample ID: Method Blank	PFAS Isotope Dilution Table B-15
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Client Data				Laboratory Data			
Name:	Eastern Analytical, Inc.	Matrix:	Aqueous	Lab Sample:	B22I106-BLK1	Column:	BEH C18
Project:	249379 NH 5379						

Analyte	CAS Number	Conc. (ng/L)	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	ND	2.00		B22I106	26-Sep-22	0.250 L	28-Sep-22 20:59	1
PFPeA	2706-90-3	ND	2.00		B22I106	26-Sep-22	0.250 L	28-Sep-22 20:59	1
PFBS	375-73-5	ND	2.00		B22I106	26-Sep-22	0.250 L	28-Sep-22 20:59	1
PFHxA	307-24-4	ND	2.00		B22I106	26-Sep-22	0.250 L	28-Sep-22 20:59	1
PFHpA	375-85-9	ND	2.00		B22I106	26-Sep-22	0.250 L	28-Sep-22 20:59	1
PFHxS	355-46-4	ND	2.00		B22I106	26-Sep-22	0.250 L	28-Sep-22 20:59	1
PFOA	335-67-1	ND	2.00		B22I106	26-Sep-22	0.250 L	28-Sep-22 20:59	1
PFNA	375-95-1	ND	2.00		B22I106	26-Sep-22	0.250 L	28-Sep-22 20:59	1
PFOS	1763-23-1	ND	2.00		B22I106	26-Sep-22	0.250 L	28-Sep-22 20:59	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	102	50 - 150		B22I106	26-Sep-22	0.250 L	28-Sep-22 20:59	1
13C3-PFPeA	IS	101	50 - 150		B22I106	26-Sep-22	0.250 L	28-Sep-22 20:59	1
13C3-PFBS	IS	108	50 - 150		B22I106	26-Sep-22	0.250 L	28-Sep-22 20:59	1
13C2-PFHxA	IS	102	50 - 150		B22I106	26-Sep-22	0.250 L	28-Sep-22 20:59	1
13C4-PFHpA	IS	99.1	50 - 150		B22I106	26-Sep-22	0.250 L	28-Sep-22 20:59	1
13C3-PFHxS	IS	98.1	50 - 150		B22I106	26-Sep-22	0.250 L	28-Sep-22 20:59	1
13C2-PFOA	IS	102	50 - 150		B22I106	26-Sep-22	0.250 L	28-Sep-22 20:59	1
13C5-PFNA	IS	97.3	50 - 150		B22I106	26-Sep-22	0.250 L	28-Sep-22 20:59	1
13C8-PFOS	IS	93.3	50 - 150		B22I106	26-Sep-22	0.250 L	28-Sep-22 20:59	1

RL - Reporting limit

Results reported to RL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: OPR
PFAS Isotope Dilution Table B-15

Client Data					Laboratory Data				
Name:	Eastern Analytical, Inc.	Matrix:	Aqueous		Lab Sample:	B22I106-BS1	Column:	BEH C18	
Project:	249379 NH 5379								

Analyte	CAS Number	Amt Found (ng/L)	Spike Amt	% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	41.8	40.0	105	73 - 129		B22I106	26-Sep-22	0.250 L	28-Sep-22 21:10	1
PFPeA	2706-90-3	42.0	40.0	105	72 - 129		B22I106	26-Sep-22	0.250 L	28-Sep-22 21:10	1
PFBS	375-73-5	42.0	40.0	105	72 - 130		B22I106	26-Sep-22	0.250 L	28-Sep-22 21:10	1
PFHxA	307-24-4	42.9	40.0	107	72 - 129		B22I106	26-Sep-22	0.250 L	28-Sep-22 21:10	1
PFHpA	375-85-9	41.5	40.0	104	72 - 130		B22I106	26-Sep-22	0.250 L	28-Sep-22 21:10	1
PFHxS	355-46-4	36.2	40.0	90.6	68 - 131		B22I106	26-Sep-22	0.250 L	28-Sep-22 21:10	1
PFOA	335-67-1	43.0	40.0	107	71 - 133		B22I106	26-Sep-22	0.250 L	28-Sep-22 21:10	1
PFNA	375-95-1	43.0	40.0	107	69 - 130		B22I106	26-Sep-22	0.250 L	28-Sep-22 21:10	1
PFOS	1763-23-1	41.9	40.0	105	65 - 140		B22I106	26-Sep-22	0.250 L	28-Sep-22 21:10	1
Labeled Standards											
		Type		% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA		IS		98.2	50 - 150		B22I106	26-Sep-22	0.250 L	28-Sep-22 21:10	1
13C3-PFPeA		IS		99.2	50 - 150		B22I106	26-Sep-22	0.250 L	28-Sep-22 21:10	1
13C3-PFBS		IS		92.4	50 - 150		B22I106	26-Sep-22	0.250 L	28-Sep-22 21:10	1
13C2-PFHxA		IS		97.6	50 - 150		B22I106	26-Sep-22	0.250 L	28-Sep-22 21:10	1
13C4-PFHpA		IS		97.8	50 - 150		B22I106	26-Sep-22	0.250 L	28-Sep-22 21:10	1
13C3-PFHxS		IS		95.5	50 - 150		B22I106	26-Sep-22	0.250 L	28-Sep-22 21:10	1
13C2-PFOA		IS		95.4	50 - 150		B22I106	26-Sep-22	0.250 L	28-Sep-22 21:10	1
13C5-PFNA		IS		92.0	50 - 150		B22I106	26-Sep-22	0.250 L	28-Sep-22 21:10	1
13C8-PFOS		IS		92.8	50 - 150		B22I106	26-Sep-22	0.250 L	28-Sep-22 21:10	1

Sample ID: MW-41_20220920				PFAS Isotope Dilution Table B-15							
Client Data				Laboratory Data							
Name:	Eastern Analytical, Inc.		Matrix:	Aqueous		Lab Sample:	2209187-01		Column:	BEH C18	
Project:	249379 NH 5379		Date Collected:	20-Sep-22 09:27		Date Received:	23-Sep-22 10:07				
Location:	249379										
Analyte	CAS Number	Conc. (ng/L)	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution		
PFBA	375-22-4	ND	2.02		B22I106	26-Sep-22	0.248 L	29-Sep-22 01:29	1		
PFPeA	2706-90-3	ND	2.02		B22I106	26-Sep-22	0.248 L	29-Sep-22 01:29	1		
PFBS	375-73-5	ND	2.02		B22I106	26-Sep-22	0.248 L	29-Sep-22 01:29	1		
PFHxA	307-24-4	ND	2.02		B22I106	26-Sep-22	0.248 L	29-Sep-22 01:29	1		
PFHpA	375-85-9	ND	2.02		B22I106	26-Sep-22	0.248 L	29-Sep-22 01:29	1		
PFHxS	355-46-4	ND	2.02		B22I106	26-Sep-22	0.248 L	29-Sep-22 01:29	1		
PFOA	335-67-1	ND	2.02		B22I106	26-Sep-22	0.248 L	29-Sep-22 01:29	1		
PFNA	375-95-1	ND	2.02		B22I106	26-Sep-22	0.248 L	29-Sep-22 01:29	1		
PFOS	1763-23-1	ND	2.02		B22I106	26-Sep-22	0.248 L	29-Sep-22 01:29	1		
Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution		
13C3-PFBA	IS	98.9	50 - 150		B22I106	26-Sep-22	0.248 L	29-Sep-22 01:29	1		
13C3-PFPeA	IS	92.9	50 - 150		B22I106	26-Sep-22	0.248 L	29-Sep-22 01:29	1		
13C3-PFBS	IS	95.4	50 - 150		B22I106	26-Sep-22	0.248 L	29-Sep-22 01:29	1		
13C2-PFHxA	IS	96.7	50 - 150		B22I106	26-Sep-22	0.248 L	29-Sep-22 01:29	1		
13C4-PFHpA	IS	98.8	50 - 150		B22I106	26-Sep-22	0.248 L	29-Sep-22 01:29	1		
13C3-PFHxS	IS	97.1	50 - 150		B22I106	26-Sep-22	0.248 L	29-Sep-22 01:29	1		
13C2-PFOA	IS	96.9	50 - 150		B22I106	26-Sep-22	0.248 L	29-Sep-22 01:29	1		
13C5-PFNA	IS	93.6	50 - 150		B22I106	26-Sep-22	0.248 L	29-Sep-22 01:29	1		
13C8-PFOS	IS	103	50 - 150		B22I106	26-Sep-22	0.248 L	29-Sep-22 01:29	1		

RL - Reporting limit

Results reported to RL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: MW-42_20220919					PFAS Isotope Dilution Table B-15					
Client Data				Laboratory Data						
Name:	Eastern Analytical, Inc.		Matrix:	Aqueous		Lab Sample:	2209187-02		Column:	BEH C18
Project:	249379 NH 5379		Date Collected:	19-Sep-22 11:30		Date Received:	23-Sep-22 10:07			
Location:	249379									
Analyte	CAS Number	Conc. (ng/L)	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
PFBA	375-22-4	ND	1.97		B22I106	26-Sep-22	0.253 L	29-Sep-22 01:40	1	
PFPeA	2706-90-3	ND	1.97		B22I106	26-Sep-22	0.253 L	29-Sep-22 01:40	1	
PFBS	375-73-5	ND	1.97		B22I106	26-Sep-22	0.253 L	29-Sep-22 01:40	1	
PFHxA	307-24-4	ND	1.97		B22I106	26-Sep-22	0.253 L	29-Sep-22 01:40	1	
PFHpA	375-85-9	ND	1.97		B22I106	26-Sep-22	0.253 L	29-Sep-22 01:40	1	
PFHxS	355-46-4	ND	1.97		B22I106	26-Sep-22	0.253 L	29-Sep-22 01:40	1	
PFOA	335-67-1	ND	1.97		B22I106	26-Sep-22	0.253 L	29-Sep-22 01:40	1	
PFNA	375-95-1	ND	1.97		B22I106	26-Sep-22	0.253 L	29-Sep-22 01:40	1	
PFOS	1763-23-1	ND	1.97		B22I106	26-Sep-22	0.253 L	29-Sep-22 01:40	1	
Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
13C3-PFBA	IS	97.2	50 - 150		B22I106	26-Sep-22	0.253 L	29-Sep-22 01:40	1	
13C3-PFPeA	IS	94.6	50 - 150		B22I106	26-Sep-22	0.253 L	29-Sep-22 01:40	1	
13C3-PFBS	IS	91.8	50 - 150		B22I106	26-Sep-22	0.253 L	29-Sep-22 01:40	1	
13C2-PFHxA	IS	91.9	50 - 150		B22I106	26-Sep-22	0.253 L	29-Sep-22 01:40	1	
13C4-PFHpA	IS	94.2	50 - 150		B22I106	26-Sep-22	0.253 L	29-Sep-22 01:40	1	
13C3-PFHxS	IS	109	50 - 150		B22I106	26-Sep-22	0.253 L	29-Sep-22 01:40	1	
13C2-PFOA	IS	93.5	50 - 150		B22I106	26-Sep-22	0.253 L	29-Sep-22 01:40	1	
13C5-PFNA	IS	90.0	50 - 150		B22I106	26-Sep-22	0.253 L	29-Sep-22 01:40	1	
13C8-PFOS	IS	87.5	50 - 150		B22I106	26-Sep-22	0.253 L	29-Sep-22 01:40	1	

RL - Reporting limit

Results reported to RL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: FB-01_20220920 **PFAS Isotope Dilution Table B-15**

Client Data				Laboratory Data			
Name:	Eastern Analytical, Inc.	Matrix:	Aqueous	Lab Sample:	2209187-03	Column:	BEH C18
Project:	249379 NH 5379	Date Collected:	20-Sep-22 09:30	Date Received:	23-Sep-22 10:07		
Location:	249379						

Analyte	CAS Number	Conc. (ng/L)	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	ND	1.97		B22I106	26-Sep-22	0.253 L	29-Sep-22 01:50	1
PFPeA	2706-90-3	ND	1.97		B22I106	26-Sep-22	0.253 L	29-Sep-22 01:50	1
PFBS	375-73-5	ND	1.97		B22I106	26-Sep-22	0.253 L	29-Sep-22 01:50	1
PFHxA	307-24-4	ND	1.97		B22I106	26-Sep-22	0.253 L	29-Sep-22 01:50	1
PFHpA	375-85-9	ND	1.97		B22I106	26-Sep-22	0.253 L	29-Sep-22 01:50	1
PFHxS	355-46-4	ND	1.97		B22I106	26-Sep-22	0.253 L	29-Sep-22 01:50	1
PFOA	335-67-1	ND	1.97		B22I106	26-Sep-22	0.253 L	29-Sep-22 01:50	1
PFNA	375-95-1	ND	1.97		B22I106	26-Sep-22	0.253 L	29-Sep-22 01:50	1
PFOS	1763-23-1	ND	1.97		B22I106	26-Sep-22	0.253 L	29-Sep-22 01:50	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	93.5	50 - 150		B22I106	26-Sep-22	0.253 L	29-Sep-22 01:50	1
13C3-PFPeA	IS	94.3	50 - 150		B22I106	26-Sep-22	0.253 L	29-Sep-22 01:50	1
13C3-PFBS	IS	89.5	50 - 150		B22I106	26-Sep-22	0.253 L	29-Sep-22 01:50	1
13C2-PFHxA	IS	92.5	50 - 150		B22I106	26-Sep-22	0.253 L	29-Sep-22 01:50	1
13C4-PFHpA	IS	91.9	50 - 150		B22I106	26-Sep-22	0.253 L	29-Sep-22 01:50	1
13C3-PFHxS	IS	87.9	50 - 150		B22I106	26-Sep-22	0.253 L	29-Sep-22 01:50	1
13C2-PFOA	IS	94.1	50 - 150		B22I106	26-Sep-22	0.253 L	29-Sep-22 01:50	1
13C5-PFNA	IS	85.5	50 - 150		B22I106	26-Sep-22	0.253 L	29-Sep-22 01:50	1
13C8-PFOS	IS	89.2	50 - 150		B22I106	26-Sep-22	0.253 L	29-Sep-22 01:50	1

RL - Reporting limit

Results reported to RL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

DATA QUALIFIERS & ABBREVIATIONS

B	This compound was also detected in the method blank
Conc.	Concentration
CRS	Cleanup Recovery Standard
D	Dilution
DL	Detection Limit
E	The associated compound concentration exceeded the calibration range of the instrument
H	Recovery and/or RPD was outside laboratory acceptance limits
I	Chemical Interference
IS	Internal Standard
J	The amount detected is below the Reporting Limit/LOQ
LOD	Limit of Detection
LOQ	Limit of Quantitation
M	Estimated Maximum Possible Concentration (CA Region 2 projects only)
MDL	Method Detection Limit
NA	Not applicable
ND	Not Detected
OPR	Ongoing Precision and Recovery sample
P	The reported concentration may include contribution from chlorinated diphenyl ether(s).
Q	The ion transition ratio is outside of the acceptance criteria.
RL	Reporting Limit
RL	For 537.1, the reported RLs are the MRLs.
TEQ	Toxic Equivalency, sum of the toxic equivalency factors (TEF) multiplied by the sample concentrations.
TEQMax	TEQ calculation that uses the detection limit as the concentration for non-detects
TEQMin	TEQ calculation that uses zero as the concentration for non-detects
TEQRisk	TEQ calculation that uses ½ the detection limit as the concentration for non-detects
U	Not Detected (specific projects only)
*	See Cover Letter

Unless otherwise noted, solid sample results are reported in dry weight. Tissue samples are reported in wet weight.

Vista Analytical Laboratory Certifications

Accrediting Authority	Certificate Number
Alaska Department of Environmental Conservation	17-013
Arkansas Department of Environmental Quality	21-023-0
California Department of Health – ELAP	2892
DoD ELAP - A2LA Accredited - ISO/IEC 17025:2005	3091.01
Florida Department of Health	E87777
Hawaii Department of Health	N/A
Louisiana Department of Environmental Quality	01977
Maine Department of Health	2020018
Massachusetts Department of Environmental Protection	M-CA413
Michigan Department of Environmental Quality	9932
Minnesota Department of Health	2211390
New Hampshire Environmental Accreditation Program	207721
New Jersey Department of Environmental Protection	CA003
New York Department of Health	11411
Ohio Environmental Protection Agency	87778
Oregon Laboratory Accreditation Program	4042-021
Pennsylvania Department of Environmental Protection	018
Texas Commission on Environmental Quality	T104704189-22-13
Vermont Department of Health	VT-4042
Virginia Department of General Services	11276
Washington Department of Ecology	C584
Wisconsin Department of Natural Resources	998036160

Current certificates and lists of licensed parameters are located in the Quality Assurance office and are available upon request.

NELAP Accredited Test Methods

MATRIX: Air	
Description of Test	Method
Determination of Polychlorinated p- Dioxins & Polychlorinated Dibenzofurans	EPA 23
Polychlorinated Dibenzodioxins in Ambient Air by GC/HRMS	EPA TO-9A

MATRIX: Biological Tissue	
Description of Test	Method
Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS	EPA 1613B
Brominated Diphenyl Ethers by HRGC/HRMS	EPA 1614A
Chlorinated Biphenyl Congeners in Water, Soil, Sediment, and Tissue by GC/HRMS	EPA 1668A/C
Pesticides in Water, Soil, Sediment, Biosolids, and Tissue by HRGC/HRMS	EPA 1699
Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS	PFAS Isotope Dilution
Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans by GC/HRMS	EPA 8280A/B
Polychlorinated Dibenzodioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) by GC/HRMS	EPA 8290/8290A

MATRIX: Drinking Water	
Description of Test	Method
Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS	EPA 1613/1613B
Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS	PFAS Isotope Dilution
Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS	EPA 537.1
Determination of Per- and Polyfluoroalkyl Substances in Drinking Water by Isotope Dilution Anion Exchange Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry	EPA 533
Perfluorooctanesulonate (PFOS) and Perfluorooctanoate (PFOA) - Method for Unfiltered Samples Using Solid Phase Extraction and Liquid Chromatography/Mass Spectrometry	ISO 25101 2009

MATRIX: Non-Potable Water	
Description of Test	Method
Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS	EPA 1613B
Brominated Diphenyl Ethers by HRGC/HRMS	EPA 1614A
Chlorinated Biphenyl Congeners in Water, Soil, Sediment, and Tissue by GC/HRMS	EPA 1668A/C
Pesticides in Water, Soil, Sediment, Biosolids, and Tissue by HRGC/HRMS	EPA 1699
Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS	PFAS Isotope Dilution
Dioxin by GC/HRMS	EPA 613
Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans by GC/HRMS	EPA 8280A/B
Polychlorinated Dibenzodioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) by GC/HRMS	EPA 8290/8290A

MATRIX: Solids	
Description of Test	Method
Tetra-Octa Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS	EPA 1613
Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS	EPA 1613B
Brominated Diphenyl Ethers by HRGC/HRMS	EPA 1614A
Chlorinated Biphenyl Congeners in Water, Soil, Sediment, and Tissue by GC/HRMS	EPA 1668A/C
Pesticides in Water, Soil, Sediment, Biosolids, and Tissue by HRGC/HRMS	EPA 1699
Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS	PFAS Isotope Dilution
Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans by GC/HRMS	EPA 8280A/B
Polychlorinated Dibenzodioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) by GC/HRMS	EPA 8290/8290A

CHAIN-OF-CUSTODY RECORD

EAI ID# **249379**

Sample ID	Date Sampled	Matrix	aParameters	Sample Notes
MW-41_20220920	9/20/2022 09:27	aqueous	Subcontract - Perfluorinated Compounds EPA Method 537mod (9 Compounds)	2209187 0-2°C
MW-42_20220919	9/19/2022 11:30	aqueous	Subcontract - Perfluorinated Compounds EPA Method 537mod (9 Compounds)	
FB-01_20220920	9/20/2022 09:30	aqueous	Subcontract - Perfluorinated Compounds EPA Method 537mod (9 Compounds)	

EAI ID# **249379**

Project State: NH

Project ID: 5379

Company Vista Analytical Laboratory

Address 1104 Windfield Way

Address El Dorado Hills, CA 95762

Account #

Phone # (916) 673-1520

Results Needed: Preferred Date: Standard

RUSH Due Date: _____

QC Deliverables

A A+ B B+ C MA MCP

Notes about project:

Email login confirmation, pdf of results and invoice to customerservice@easternanalytical.com.

PFAS by Method 537 modified with Isotope Dilution. NHDES 9 Compound List. Report Sulfonic Acids

PO #: 58257

EAI ID# **249379**

Data Deliverable (circle)

Excel NH EMD EQUIS ME EGAD

Call prior to analyzing, if RUSH charges will be applied.

Samples Collected by:

Chris Johnson 9/22/22 1600 UPS

Relinquished by Date/Time Received by

UPS 9/23/22 1007 Kelia Wadsworth

Relinquished by Date/Time Received by

Eastern Analytical, Inc. 51 Antrim Ave Concord, NH 03301

Phone: (603)228-0525

1-800-287-0525

customerservice@easternanalytical.com

As a subcontract lab to EAI, you will defend, indemnify and hold Eastern Analytical, Inc., its officers, employees, and agents harmless from and against any and all liability, loss, expense or claims for injury or damages arising out of the performance against this chain of custody but only in proportion to and to the extent such liability, loss, expense, or claims for injury or damages are caused by or result from the negligent or intentional acts or omissions of you as a subcontract lab, your officers, agents or employees

Work Order 2209187



Sample Log-In Checklist

Page # 1 of 1

Vista Work Order #: 2209187 TAT 1 day

Samples Arrival:	Date/Time <u>09/23/22 1007</u>	Initials: <u>KN</u>	Location: <u>WR-2</u> Shelf/Rack: <u>N/A</u>
Delivered By:	FedEx <input type="checkbox"/> UPS <input checked="" type="checkbox"/> On Trac <input type="checkbox"/> GLS <input type="checkbox"/> DHL <input type="checkbox"/> Hand Delivered <input type="checkbox"/> Other <input type="checkbox"/>		
Preservation:	Ice <input checked="" type="checkbox"/> Blue Ice <input type="checkbox"/> Techni Ice <input type="checkbox"/> Dry Ice <input type="checkbox"/> None <input type="checkbox"/>		
Temp °C: <u>0.3</u> (uncorrected)	Probe used: Y <input type="checkbox"/> N <input checked="" type="checkbox"/>		Thermometer ID: <u>IR-3</u>
Temp °C: <u>0.2</u> (corrected)			

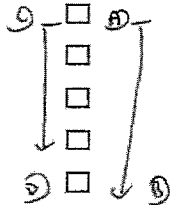
	YES	NO	NA
Shipping Container(s) Intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Shipping Custody Seals Intact?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Airbill: Trk # <u>1Z X46 599 019043 6338</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Shipping Documentation Present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Shipping Container	Vista <input type="checkbox"/> Client <input checked="" type="checkbox"/> Retain <input type="checkbox"/> Return <input checked="" type="checkbox"/> Dispose <input type="checkbox"/>		
Chain of Custody / Sample Documentation Present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Chain of Custody / Sample Documentation Complete?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Holding Time Acceptable?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Logged In:	Date/Time <u>09/23/22 10:40</u>	Initials: <u>YA</u>	Location: <u>R-13</u> <u>WR-2</u> Shelf/Rack: <u>A-2</u> <u>H-4</u>
COC Anomaly/Sample Acceptance Form completed?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Comments:

YA 23/22

CoC/Label Reconciliation Report WO# 2209187

LabNumber	CoC Sample ID	SampleAlias	Sample Date/Time	Container	BaseMatrix	Sample Comments
2209187-01	A MW-41_20220920	249379 . 01	20-Sep-22 09:27 <input checked="" type="checkbox"/>	Polypropylene, 250mL	Aqueous	
2209187-01	B MW-41_20220920	249379 . 01	20-Sep-22 09:27 <input checked="" type="checkbox"/>	Polypropylene, 250mL	Aqueous	
2209187-02	A MW-42_20220919	249379 - 02	19-Sep-22 11:30 <input checked="" type="checkbox"/>	Polypropylene, 250mL	Aqueous	
2209187-02	B MW-42_20220919	249379 - 02	19-Sep-22 11:30 <input checked="" type="checkbox"/>	Polypropylene, 250mL	Aqueous	
2209187-03	A FB-01_20220920	249379 - 03	20-Sep-22 09:30 <input checked="" type="checkbox"/>	Polypropylene, 250mL	Aqueous	



Checkmarks indicate that information on the COC reconciled with the sample label.
Any discrepancies are noted in the following columns.

	Yes	No	NA
Sample Container Intact?	<input checked="" type="checkbox"/>		
Sample Custody Seals Intact?			<input checked="" type="checkbox"/>
Adequate Sample Volume?	<input checked="" type="checkbox"/>		
Container Type Appropriate for Analysis(es)	<input checked="" type="checkbox"/>		

Comments: A Underlined part is not present on sample label. Sample reconciled with sample Alias and date/time.
B no backup volume

Preservation Documented: Na2S2O3 Trizma
DT6
DT5 NH4CH3CO2 None Other

Verified by/Date: YK 09/27/22



ANOMALY FORM

Vista Work Order 2209187

Initial/Date The following checked issues were noted during sample receipt and login:

- 1. The samples were received out of temperature at (WI-PHT): _____
Was Ice present: Yes No Melted Blue Ice
- 2. The Chain-of-Custody (CoC) was not relinquished properly.
- 3. The CoC did not include collection time(s). 00:00 will be used unless notified otherwise.
- 4. The sample(s) did not include a sample collection time. All or Sample Name: _____
- 1/29/22 5. A sample ID discrepancy was found. See the Reconciliation report.
The CoC Sample ID will be used unless notified otherwise.
- 6. A sample date and/or time discrepancy was found. See the Reconciliation report.
The CoC Sample date/time will be used unless notified otherwise.
- 7. The CoC did not include a sample matrix. The following sample matrix will be used: _____
- 8. Insufficient volume received for analysis. All or Sample Name: _____
- 9. The backup bottle was received broken. Sample Name: _____
- 10. CoC not received, illegible or destroyed.
- 11. The sample(s) were received out of holding time. All or Sample Name: _____
- 12. The CoC did not include an analysis. All or Sample Name: _____
- 13. Sample(s) received without collection date. All or Sample Name: _____
- 14. Sample(s) not received. All or Sample Name: _____
- 15. Sample(s) received broken. All or Sample Name: _____
- 16. An incorrect container-type was used. All or Sample Name: _____
- 1/29/22 17. The Field Reagent Blank (FRB) preservative was from a different lot than the field samples.
Will proceed with analysis and narrate unless notified otherwise.
- 18. Other:

Bolded items require sign-off

Client Contacted: _____

Date of Contact: _____

Vista Client Manager: _____

Resolution:

Chain-of-Custody Record

249379

Page 1 of 1

Page 21 of 21

Sample ID	Sampling Date/Time <small>*If Composite, Indicate Both Start & Finish Date/Time</small>	Matrix (see below)	Grab/*Composite	Analyses Requested													Field Turbidity (NTU)	# of Containers	NOTES <small>MeOH Vial #</small>			
				PFAS - Mod 537 - NHDES 9 Compound List																		
MW-41_20220920	9/20/22 0927	GW	G	X																	2	
MW-42_20220919	9/19/22 1130	GW	G	X																	2	Report standard project RLs (last rpt: Work Order # 242121) ~4 ng/L for all compounds
FB-01_20220920	9/20/22 0930	AQ	G	X																2		
Matrix: A-Air; S-Soil; GW-Ground Water; SW-Surface Water; DW-Drinking Water; WW-Waste Water; AQ-Aqueous; L-Leachate Preservative: H-HCl; N-HNO3; S-H2SO4; Na-NaOH; M-MeOH; NSO-Na2S2O3				ICE																		

Project Manager: T. White

Company: Sanborn, Head & Associates, Inc.

Address: 20 Foundry Street

City: Concord State: NH Zip: 03301

Phone: 603-229-1900 Ext.:

Fax: 603-229-1919

E-Mail: twhite@sanbornhead.com

Site Name: Dalton | PFAS

Project # 1003.22

State: NH

Regulatory Program: NPDES: RGP POTW Stormwater or GWP, Oil Fund, Brownfield or Other:

Quote #: _____ PO#: _____

Date Needed: Standard TAT

Temp. 0.3 °C

QA/QC
Reporting Level: A B C
Presumptive Certainty

Reporting Options
Prelims: Yes or No
If Yes: Fax or PDF

Electronic Options
 No Fax E-Mail PDF Equis

Sampler(s): MTS, PJP, TAD 9-21-22 0750

Relinquished By: [Signature] 9/20/22 1830 [Signature]

Relinquished By: [Signature] 9-21-22 0820 [Signature]

Relinquished By: _____ Date: _____ Time: _____ Received By: _____

Metals: Samples Field Filtered:

A: _____
B: _____
C: _____

Notes: (i.e., Special Detection Limits, Billing Info, If Diff)

Bill GSL:

- 1) Sub to Vista
- 2) Please Report Sulfonic Acids
- 3) PFAS by Method 537 modified with isotope dilution (NHDES 9 Compound List)

Suspected Contamination: _____

Field Readings: _____



\\conserv1\shdata\1000s\1003.22\Analytical\2022-09\2022-09 EAI COCs.xlsx

Appendix K.9

April 2023 Analytical Laboratory Report

Lilly Corenthal
Sanborn, Head & Associates, Inc. (NH)
20 Foundry Street
Concord, NH 03301



Laboratory Report for:

Eastern Analytical, Inc. ID: 258392
Client Identification: Granite State LF | Surface Water | 1003.24
Date Received: 4/11/2023

Enclosed are the analytical results per the Chain of Custody for sample(s) in the referenced project. All analyses were performed in accordance with our QA/QC Program, NELAP and other applicable state requirements. All quality control criteria was within acceptance criteria unless noted on the report pages. Results are for the exclusive use of the client named on this report and will not be released to a third party without consent.

The following information is contained within this report: Sample Conditions summary, Analytical Results/Data, Quality Control data (if requested) and copies of the Chain of Custody. This report may not be reproduced except in full, without the written approval of the laboratory.

The following standard abbreviations and conventions apply to all EAI reports:

- < : "less than" followed by the reporting limit
- > : "greater than" followed by the reporting limit
- %R : % Recovery

Certifications:

Eastern Analytical, Inc. maintains certification in the following states: Connecticut (PH-0492), Maine (NH005), Massachusetts (M-NH005), New Hampshire/NELAP (1012), Rhode Island (269), Vermont (VT1012), New York (12072) and West Virginia (9910C). Please refer to our website at www.easternanalytical.com for a copy of our certificates and accredited parameters.


References:

- EPA 600/4-79-020, 1983
- Standard Methods for Examination of Water and Wastewater, 20th, 21st, 22nd & 23rd edition or noted revision year.
- Test Methods for Evaluating Solid Waste SW 846 3rd Edition including updates IVA and IVB
- Hach Water Analysis Handbook, 4th edition, 1992
- ASTM International

If you have any questions regarding the results contained within, please feel free to contact customer service. Unless otherwise requested, we will dispose of the sample(s) 6 weeks from the sample receipt date.

We appreciate this opportunity to be of service and look forward to your continued patronage.

Sincerely,


Lorraine Olashaw, Lab Director

4.21.23
Date



SAMPLE CONDITIONS PAGE

EAI ID#: 258392

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Granite State LF | Surface Water | 1003.24**

Temperature upon receipt (°C): 1.9

Received on ice or cold packs (Yes/No): Y

Acceptable temperature range (°C): 0-6

Lab ID	Sample ID	Date Received	Date/Time Sampled	Sample Matrix	% Dry Weight	Exceptions/Comments (other than thermal preservation)
258392.01	SG-1_20230410	4/11/23	4/10/23 10:20	aqueous		Adheres to Sample Acceptance Policy
258392.02	SG-3_20230410	4/11/23	4/10/23 12:40	aqueous		Adheres to Sample Acceptance Policy
258392.03	SG-5_20230410	4/11/23	4/10/23 11:05	aqueous		Adheres to Sample Acceptance Policy
258392.04	SG-6_20230410	4/11/23	4/10/23 09:55	aqueous		Adheres to Sample Acceptance Policy
258392.05	SG-7_20230410	4/11/23	4/10/23 11:45	aqueous		Adheres to Sample Acceptance Policy
258392.06	SG-9_20230410	4/11/23	4/10/23 13:40	aqueous		Adheres to Sample Acceptance Policy
258392.07	SG-10_20230410	4/11/23	4/10/23 13:05	aqueous		Adheres to Sample Acceptance Policy
258392.08	AB-1_20230410	4/11/23	4/10/23 09:25	aqueous		Adheres to Sample Acceptance Policy
258392.09	SWDUP-1_20230410	4/11/23	4/10/23 12:40	aqueous		Adheres to Sample Acceptance Policy
258392.1	TB-SW-01_20230410	4/11/23	4/10/23 16:38	aqueous		Adheres to Sample Acceptance Policy
258392.11	TB-LL-SW-01_20230410	4/11/23	4/10/23 16:33	aqueous		Adheres to Sample Acceptance Policy

All results contained in this report relate only to the above listed samples.

Unless otherwise noted:

- Hold times, preservation, container types, and sample conditions adhered to EPA Protocol.
- Solid samples are reported on a dry weight basis, unless otherwise noted. pH/Corrosivity, Flashpoint, Ignitability, Paint Filter, Conductivity and Specific Gravity are always reported on an "as received" basis.
- Analysis of pH, Total Residual Chlorine, Dissolved Oxygen and Sulfite were performed at the laboratory outside of the recommended 15 minute hold time.
- Samples collected by Eastern Analytical, Inc. (EAI) were collected in accordance with approved EPA procedures.



LABORATORY REPORT

EAI ID#: 258392

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Granite State LF | Surface Water | 1003.24**

Sample ID:	SG-1_20230410	SG-3_20230410	SG-5_20230410	SG-6_20230410
Lab Sample ID:	258392.01	258392.02	258392.03	258392.04
Matrix:	aqueous	aqueous	aqueous	aqueous
Date Sampled:	4/10/23	4/10/23	4/10/23	4/10/23
Date Received:	4/11/23	4/11/23	4/11/23	4/11/23
Units:	ug/L	ug/L	ug/L	ug/L
Date of Analysis:	4/11/23	4/11/23	4/11/23	4/11/23
Analyst:	SG	SG	SG	SG
Method:	8260C	8260C	8260C	8260C
Dilution Factor:	1	1	1	1
Dichlorodifluoromethane	< 2	< 2	< 2	< 2
Chloromethane	< 2	< 2	< 2	< 2
Vinyl chloride	< 1	< 1	< 1	< 1
Bromomethane	< 2	< 2	< 2	< 2
Chloroethane	< 2	< 2	< 2	< 2
Trichlorofluoromethane	< 2	< 2	< 2	< 2
Diethyl Ether	< 2	< 2	< 2	< 2
Acetone	< 10	< 10	< 10	< 10
1,1-Dichloroethene	< 0.5	< 0.5	< 0.5	< 0.5
tert-Butyl Alcohol (TBA)	< 30	< 30	< 30	< 30
Methylene chloride	< 1	< 1	< 1	< 1
Carbon disulfide	< 2	< 2	< 2	< 2
Methyl-t-butyl ether(MTBE)	< 1	< 1	< 1	< 1
Ethyl-t-butyl ether(ETBE)	< 2	< 2	< 2	< 2
Isopropyl ether(DIPE)	< 2	< 2	< 2	< 2
tert-amyl methyl ether(TAME)	< 2	< 2	< 2	< 2
trans-1,2-Dichloroethene	< 1	< 1	< 1	< 1
1,1-Dichloroethane	< 1	< 1	< 1	< 1
2,2-Dichloropropane	< 1	< 1	< 1	< 1
cis-1,2-Dichloroethene	< 1	< 1	< 1	< 1
2-Butanone(MEK)	< 10	< 10	< 10	< 10
Bromochloromethane	< 1	< 1	< 1	< 1
Tetrahydrofuran(THF)	< 10	< 10	< 10	< 10
Chloroform	< 1	< 1	< 1	< 1
1,1,1-Trichloroethane	< 1	< 1	< 1	< 1
Carbon tetrachloride	< 1	< 1	< 1	< 1
1,1-Dichloropropene	< 1	< 1	< 1	< 1
Benzene	< 1	< 1	< 1	< 1
1,2-Dichloroethane	< 1	< 1	< 1	< 1
Trichloroethene	< 1	< 1	< 1	< 1
1,2-Dichloropropane	< 1	< 1	< 1	< 1
Dibromomethane	< 1	< 1	< 1	< 1
Bromodichloromethane	< 0.5	< 0.5	< 0.5	< 0.5
1,4-Dioxane	< 50	< 50	< 50	< 50
4-Methyl-2-pentanone(MIBK)	< 10	< 10	< 10	< 10
cis-1,3-Dichloropropene	< 0.5	< 0.5	< 0.5	< 0.5
Toluene	< 1	< 1	< 1	< 1
trans-1,3-Dichloropropene	< 0.5	< 0.5	< 0.5	< 0.5
1,1,2-Trichloroethane	< 1	< 1	< 1	< 1
2-Hexanone	< 10	< 10	< 10	< 10
Tetrachloroethene	< 1	< 1	< 1	< 1
1,3-Dichloropropane	< 1	< 1	< 1	< 1
Dibromochloromethane	< 1	< 1	< 1	< 1
1,2-Dibromoethane(EDB)	< 0.5	< 0.5	< 0.5	< 0.5
Chlorobenzene	< 1	< 1	< 1	< 1
1,1,1,2-Tetrachloroethane	< 1	< 1	< 1	< 1



LABORATORY REPORT

EAI ID#: **258392**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Granite State LF | Surface Water | 1003.24**

Sample ID:	SG-1_20230410	SG-3_20230410	SG-5_20230410	SG-6_20230410
Lab Sample ID:	258392.01	258392.02	258392.03	258392.04
Matrix:	aqueous	aqueous	aqueous	aqueous
Date Sampled:	4/10/23	4/10/23	4/10/23	4/10/23
Date Received:	4/11/23	4/11/23	4/11/23	4/11/23
Units:	ug/L	ug/L	ug/L	ug/L
Date of Analysis:	4/11/23	4/11/23	4/11/23	4/11/23
Analyst:	SG	SG	SG	SG
Method:	8260C	8260C	8260C	8260C
Dilution Factor:	1	1	1	1
Ethylbenzene	< 1	< 1	< 1	< 1
mp-Xylene	< 1	< 1	< 1	< 1
o-Xylene	< 1	< 1	< 1	< 1
Styrene	< 1	< 1	< 1	< 1
Bromoform	< 2	< 2	< 2	< 2
IsoPropylbenzene	< 1	< 1	< 1	< 1
Bromobenzene	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	< 1	< 1	< 1	< 1
1,2,3-Trichloropropane	< 0.5	< 0.5	< 0.5	< 0.5
n-Propylbenzene	< 1	< 1	< 1	< 1
2-Chlorotoluene	< 1	< 1	< 1	< 1
4-Chlorotoluene	< 1	< 1	< 1	< 1
1,3,5-Trimethylbenzene	< 1	< 1	< 1	< 1
tert-Butylbenzene	< 1	< 1	< 1	< 1
1,2,4-Trimethylbenzene	< 1	< 1	< 1	< 1
sec-Butylbenzene	< 1	< 1	< 1	< 1
1,3-Dichlorobenzene	< 1	< 1	< 1	< 1
p-Isopropyltoluene	< 1	< 1	< 1	< 1
1,4-Dichlorobenzene	< 1	< 1	< 1	< 1
1,2-Dichlorobenzene	< 1	< 1	< 1	< 1
n-Butylbenzene	< 1	< 1	< 1	< 1
1,2-Dibromo-3-chloropropane	< 2	< 2	< 2	< 2
1,3,5-Trichlorobenzene	< 1	< 1	< 1	< 1
1,2,4-Trichlorobenzene	< 1	< 1	< 1	< 1
Hexachlorobutadiene	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	< 2	< 2	< 2	< 2
1,2,3-Trichlorobenzene	< 0.5	< 0.5	< 0.5	< 0.5
4-Bromofluorobenzene (surr)	106 %R	107 %R	108 %R	105 %R
1,2-Dichlorobenzene-d4 (surr)	102 %R	102 %R	102 %R	102 %R
Toluene-d8 (surr)	97 %R	96 %R	95 %R	97 %R
1,2-Dichloroethane-d4 (surr)	100 %R	100 %R	103 %R	98 %R



LABORATORY REPORT

EAI ID#: 258392

Client: Sanborn, Head & Associates, Inc. (NH)

Client Designation: Granite State LF | Surface Water | 1003.24

Sample ID:	SG-7_20230410	SG-9_20230410	SG-10_20230410	AB-1_20230410
Lab Sample ID:	258392.05	258392.06	258392.07	258392.08
Matrix:	aqueous	aqueous	aqueous	aqueous
Date Sampled:	4/10/23	4/10/23	4/10/23	4/10/23
Date Received:	4/11/23	4/11/23	4/11/23	4/11/23
Units:	ug/L	ug/L	ug/L	ug/L
Date of Analysis:	4/11/23	4/11/23	4/11/23	4/11/23
Analyst:	SG	SG	SG	SG
Method:	8260C	8260C	8260C	8260C
Dilution Factor:	1	1	1	1
Dichlorodifluoromethane	< 2	< 2	< 2	< 2
Chloromethane	< 2	< 2	< 2	< 2
Vinyl chloride	< 1	< 1	< 1	< 1
Bromomethane	< 2	< 2	< 2	< 2
Chloroethane	< 2	< 2	< 2	< 2
Trichlorofluoromethane	< 2	< 2	< 2	< 2
Diethyl Ether	< 2	< 2	< 2	< 2
Acetone	< 10	< 10	< 10	< 10
1,1-Dichloroethene	< 0.5	< 0.5	< 0.5	< 0.5
tert-Butyl Alcohol (TBA)	< 30	< 30	< 30	< 30
Methylene chloride	< 1	< 1	< 1	< 1
Carbon disulfide	< 2	< 2	< 2	< 2
Methyl-t-butyl ether(MTBE)	< 1	< 1	< 1	< 1
Ethyl-t-butyl ether(ETBE)	< 2	< 2	< 2	< 2
Isopropyl ether(DIPE)	< 2	< 2	< 2	< 2
tert-amyl methyl ether(TAME)	< 2	< 2	< 2	< 2
trans-1,2-Dichloroethene	< 1	< 1	< 1	< 1
1,1-Dichloroethane	< 1	< 1	< 1	< 1
2,2-Dichloropropane	< 1	< 1	< 1	< 1
cis-1,2-Dichloroethene	< 1	< 1	< 1	< 1
2-Butanone(MEK)	< 10	< 10	< 10	< 10
Bromochloromethane	< 1	< 1	< 1	< 1
Tetrahydrofuran(THF)	< 10	< 10	< 10	< 10
Chloroform	< 1	< 1	< 1	< 1
1,1,1-Trichloroethane	< 1	< 1	< 1	< 1
Carbon tetrachloride	< 1	< 1	< 1	< 1
1,1-Dichloropropene	< 1	< 1	< 1	< 1
Benzene	< 1	< 1	< 1	< 1
1,2-Dichloroethane	< 1	< 1	< 1	< 1
Trichloroethene	< 1	< 1	< 1	< 1
1,2-Dichloropropane	< 1	< 1	< 1	< 1
Dibromomethane	< 1	< 1	< 1	< 1
Bromodichloromethane	< 0.5	< 0.5	< 0.5	< 0.5
1,4-Dioxane	< 50	< 50	< 50	< 50
4-Methyl-2-pentanone(MIBK)	< 10	< 10	< 10	< 10
cis-1,3-Dichloropropene	< 0.5	< 0.5	< 0.5	< 0.5
Toluene	< 1	< 1	< 1	< 1
trans-1,3-Dichloropropene	< 0.5	< 0.5	< 0.5	< 0.5
1,1,2-Trichloroethane	< 1	< 1	< 1	< 1
2-Hexanone	< 10	< 10	< 10	< 10
Tetrachloroethene	< 1	< 1	< 1	< 1
1,3-Dichloropropane	< 1	< 1	< 1	< 1
Dibromochloromethane	< 1	< 1	< 1	< 1
1,2-Dibromoethane(EDB)	< 0.5	< 0.5	< 0.5	< 0.5
Chlorobenzene	< 1	< 1	< 1	< 1
1,1,1,2-Tetrachloroethane	< 1	< 1	< 1	< 1



LABORATORY REPORT

EAI ID#: 258392

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Granite State LF | Surface Water | 1003.24**

Sample ID:	SG-7_20230410	SG-9_20230410	SG-10_20230410	AB-1_20230410
Lab Sample ID:	258392.05	258392.06	258392.07	258392.08
Matrix:	aqueous	aqueous	aqueous	aqueous
Date Sampled:	4/10/23	4/10/23	4/10/23	4/10/23
Date Received:	4/11/23	4/11/23	4/11/23	4/11/23
Units:	ug/L	ug/L	ug/L	ug/L
Date of Analysis:	4/11/23	4/11/23	4/11/23	4/11/23
Analyst:	SG	SG	SG	SG
Method:	8260C	8260C	8260C	8260C
Dilution Factor:	1	1	1	1
Ethylbenzene	< 1	< 1	< 1	< 1
mp-Xylene	< 1	< 1	< 1	< 1
o-Xylene	< 1	< 1	< 1	< 1
Styrene	< 1	< 1	< 1	< 1
Bromoform	< 2	< 2	< 2	< 2
IsoPropylbenzene	< 1	< 1	< 1	< 1
Bromobenzene	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	< 1	< 1	< 1	< 1
1,2,3-Trichloropropane	< 0.5	< 0.5	< 0.5	< 0.5
n-Propylbenzene	< 1	< 1	< 1	< 1
2-Chlorotoluene	< 1	< 1	< 1	< 1
4-Chlorotoluene	< 1	< 1	< 1	< 1
1,3,5-Trimethylbenzene	< 1	< 1	< 1	< 1
tert-Butylbenzene	< 1	< 1	< 1	< 1
1,2,4-Trimethylbenzene	< 1	< 1	< 1	< 1
sec-Butylbenzene	< 1	< 1	< 1	< 1
1,3-Dichlorobenzene	< 1	< 1	< 1	< 1
p-Isopropyltoluene	< 1	< 1	< 1	< 1
1,4-Dichlorobenzene	< 1	< 1	< 1	< 1
1,2-Dichlorobenzene	< 1	< 1	< 1	< 1
n-Butylbenzene	< 1	< 1	< 1	< 1
1,2-Dibromo-3-chloropropane	< 2	< 2	< 2	< 2
1,3,5-Trichlorobenzene	< 1	< 1	< 1	< 1
1,2,4-Trichlorobenzene	< 1	< 1	< 1	< 1
Hexachlorobutadiene	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	< 2	< 2	< 2	< 2
1,2,3-Trichlorobenzene	< 0.5	< 0.5	< 0.5	< 0.5
4-Bromofluorobenzene (surr)	107 %R	107 %R	107 %R	107 %R
1,2-Dichlorobenzene-d4 (surr)	102 %R	103 %R	103 %R	102 %R
Toluene-d8 (surr)	94 %R	96 %R	95 %R	96 %R
1,2-Dichloroethane-d4 (surr)	103 %R	101 %R	103 %R	100 %R



LABORATORY REPORT

EAI ID#: 258392

Client: Sanborn, Head & Associates, Inc. (NH)

Client Designation: Granite State LF | Surface Water | 1003.24

Sample ID: SWDUP-1_20230410 TB-SW-01_20230410

Lab Sample ID:	258392.09	258392.1
Matrix:	aqueous	aqueous
Date Sampled:	4/10/23	4/10/23
Date Received:	4/11/23	4/11/23
Units:	ug/L	ug/L
Date of Analysis:	4/11/23	4/11/23
Analyst:	SG	SG
Method:	8260C	8260C
Dilution Factor:	1	1

Dichlorodifluoromethane	< 2	< 2
Chloromethane	< 2	< 2
Vinyl chloride	< 1	< 1
Bromomethane	< 2	< 2
Chloroethane	< 2	< 2
Trichlorofluoromethane	< 2	< 2
Diethyl Ether	< 2	< 2
Acetone	< 10	< 10
1,1-Dichloroethene	< 0.5	< 0.5
tert-Butyl Alcohol (TBA)	< 30	< 30
Methylene chloride	< 1	< 1
Carbon disulfide	< 2	< 2
Methyl-t-butyl ether(MTBE)	< 1	< 1
Ethyl-t-butyl ether(ETBE)	< 2	< 2
Isopropyl ether(DIPE)	< 2	< 2
tert-amyl methyl ether(TAME)	< 2	< 2
trans-1,2-Dichloroethene	< 1	< 1
1,1-Dichloroethane	< 1	< 1
2,2-Dichloropropane	< 1	< 1
cis-1,2-Dichloroethene	< 1	< 1
2-Butanone(MEK)	< 10	< 10
Bromochloromethane	< 1	< 1
Tetrahydrofuran(THF)	< 10	< 10
Chloroform	< 1	< 1
1,1,1-Trichloroethane	< 1	< 1
Carbon tetrachloride	< 1	< 1
1,1-Dichloropropene	< 1	< 1
Benzene	< 1	< 1
1,2-Dichloroethane	< 1	< 1
Trichloroethene	< 1	< 1
1,2-Dichloropropane	< 1	< 1
Dibromomethane	< 1	< 1
Bromodichloromethane	< 0.5	< 0.5
1,4-Dioxane	< 50	< 50
4-Methyl-2-pentanone(MIBK)	< 10	< 10
cis-1,3-Dichloropropene	< 0.5	< 0.5
Toluene	< 1	< 1
trans-1,3-Dichloropropene	< 0.5	< 0.5
1,1,2-Trichloroethane	< 1	< 1
2-Hexanone	< 10	< 10
Tetrachloroethene	< 1	< 1
1,3-Dichloropropane	< 1	< 1
Dibromochloromethane	< 1	< 1
1,2-Dibromoethane(EDB)	< 0.5	< 0.5
Chlorobenzene	< 1	< 1
1,1,1,2-Tetrachloroethane	< 1	< 1



LABORATORY REPORT

EAI ID#: 258392

Client: Sanborn, Head & Associates, Inc. (NH)

Client Designation: Granite State LF | Surface Water | 1003.24

Sample ID: SWDUP-1_20230410 TB-SW-01_20230410

Lab Sample ID:	258392.09	258392.1
Matrix:	aqueous	aqueous
Date Sampled:	4/10/23	4/10/23
Date Received:	4/11/23	4/11/23
Units:	ug/L	ug/L
Date of Analysis:	4/11/23	4/11/23
Analyst:	SG	SG
Method:	8260C	8260C
Dilution Factor:	1	1
Ethylbenzene	< 1	< 1
mp-Xylene	< 1	< 1
o-Xylene	< 1	< 1
Styrene	< 1	< 1
Bromoform	< 2	< 2
IsoPropylbenzene	< 1	< 1
Bromobenzene	< 1	< 1
1,1,2,2-Tetrachloroethane	< 1	< 1
1,2,3-Trichloropropane	< 0.5	< 0.5
n-Propylbenzene	< 1	< 1
2-Chlorotoluene	< 1	< 1
4-Chlorotoluene	< 1	< 1
1,3,5-Trimethylbenzene	< 1	< 1
tert-Butylbenzene	< 1	< 1
1,2,4-Trimethylbenzene	< 1	< 1
sec-Butylbenzene	< 1	< 1
1,3-Dichlorobenzene	< 1	< 1
p-Isopropyltoluene	< 1	< 1
1,4-Dichlorobenzene	< 1	< 1
1,2-Dichlorobenzene	< 1	< 1
n-Butylbenzene	< 1	< 1
1,2-Dibromo-3-chloropropane	< 2	< 2
1,3,5-Trichlorobenzene	< 1	< 1
1,2,4-Trichlorobenzene	< 1	< 1
Hexachlorobutadiene	< 0.5	< 0.5
Naphthalene	< 2	< 2
1,2,3-Trichlorobenzene	< 0.5	< 0.5
4-Bromofluorobenzene (surr)	106 %R	109 %R
1,2-Dichlorobenzene-d4 (surr)	103 %R	103 %R
Toluene-d8 (surr)	95 %R	95 %R
1,2-Dichloroethane-d4 (surr)	102 %R	103 %R



QC REPORT

EAI ID#: 258392

Client: Sanborn, Head & Associates, Inc. (NH)

Batch ID: 638168-14819/A041123V82602

Client Designation: Granite State LF | Surface Water | 1003.24

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
Dichlorodifluoromethane	< 2	17 (87 %R)	18 (89 %R) (2 RPD)	4/11/2023	ug/L	40 - 160	20	8260C
Chloromethane	< 2	22 (109 %R)	22 (111 %R) (2 RPD)	4/11/2023	ug/L	40 - 160	20	8260C
Vinyl chloride	< 1	* 26 (131 %R)	* 27 (133 %R) (2 RPD)	4/11/2023	ug/L	70 - 130	20	8260C
Bromomethane	< 2	25 (126 %R)	27 (136 %R) (7 RPD)	4/11/2023	ug/L	40 - 160	20	8260C
Chloroethane	< 2	24 (120 %R)	24 (122 %R) (2 RPD)	4/11/2023	ug/L	70 - 130	20	8260C
Trichlorofluoromethane	< 2	24 (122 %R)	25 (124 %R) (2 RPD)	4/11/2023	ug/L	70 - 130	20	8260C
Diethyl Ether	< 2	21 (106 %R)	22 (108 %R) (2 RPD)	4/11/2023	ug/L	70 - 130	20	8260C
Acetone	< 10	22 (109 %R)	22 (109 %R) (1 RPD)	4/11/2023	ug/L	40 - 160	20	8260C
1,1-Dichloroethene	< 0.5	25 (126 %R)	26 (130 %R) (3 RPD)	4/11/2023	ug/L	70 - 130	20	8260C
tert-Butyl Alcohol (TBA)	< 30	130 (128 %R)	130 (130 %R) (2 RPD)	4/11/2023	ug/L	70 - 130	20	8260C
Methylene chloride	< 1	23 (114 %R)	23 (116 %R) (2 RPD)	4/11/2023	ug/L	70 - 130	20	8260C
Carbon disulfide	< 2	23 (116 %R)	24 (119 %R) (2 RPD)	4/11/2023	ug/L	70 - 130	20	8260C
Methyl-t-butyl ether(MTBE)	< 1	25 (124 %R)	25 (126 %R) (2 RPD)	4/11/2023	ug/L	70 - 130	20	8260C
Ethyl-t-butyl ether(ETBE)	< 2	25 (123 %R)	25 (126 %R) (2 RPD)	4/11/2023	ug/L	70 - 130	20	8260C
Isopropyl ether(DIPE)	< 2	24 (122 %R)	25 (126 %R) (3 RPD)	4/11/2023	ug/L	70 - 130	20	8260C
tert-amyl methyl ether(TAME)	< 2	24 (122 %R)	25 (125 %R) (2 RPD)	4/11/2023	ug/L	70 - 130	20	8260C
trans-1,2-Dichloroethene	< 1	24 (122 %R)	25 (124 %R) (2 RPD)	4/11/2023	ug/L	70 - 130	20	8260C
1,1-Dichloroethane	< 1	25 (125 %R)	25 (127 %R) (2 RPD)	4/11/2023	ug/L	70 - 130	20	8260C
2,2-Dichloropropane	< 1	* 26 (132 %R)	* 27 (133 %R) (1 RPD)	4/11/2023	ug/L	70 - 130	20	8260C
cis-1,2-Dichloroethene	< 1	24 (121 %R)	25 (123 %R) (2 RPD)	4/11/2023	ug/L	70 - 130	20	8260C
2-Butanone(MEK)	< 10	22 (112 %R)	23 (114 %R) (2 RPD)	4/11/2023	ug/L	40 - 160	20	8260C
Bromochloromethane	< 1	23 (117 %R)	24 (119 %R) (2 RPD)	4/11/2023	ug/L	70 - 130	20	8260C
Tetrahydrofuran(THF)	< 10	20 (100 %R)	20 (102 %R) (2 RPD)	4/11/2023	ug/L	70 - 130	20	8260C
Chloroform	< 1	24 (118 %R)	24 (121 %R) (2 RPD)	4/11/2023	ug/L	70 - 130	20	8260C
1,1,1-Trichloroethane	< 1	24 (122 %R)	25 (126 %R) (3 RPD)	4/11/2023	ug/L	70 - 130	20	8260C
Carbon tetrachloride	< 1	* 27 (133 %R)	* 27 (136 %R) (2 RPD)	4/11/2023	ug/L	70 - 130	20	8260C
1,1-Dichloropropene	< 1	25 (123 %R)	25 (125 %R) (2 RPD)	4/11/2023	ug/L	70 - 130	20	8260C
Benzene	< 1	23 (116 %R)	24 (118 %R) (2 RPD)	4/11/2023	ug/L	70 - 130	20	8260C
1,2-Dichloroethane	< 1	23 (116 %R)	24 (118 %R) (2 RPD)	4/11/2023	ug/L	70 - 130	20	8260C
Trichloroethene	< 1	23 (115 %R)	24 (118 %R) (2 RPD)	4/11/2023	ug/L	70 - 130	20	8260C
1,2-Dichloropropane	< 1	24 (119 %R)	24 (121 %R) (2 RPD)	4/11/2023	ug/L	70 - 130	20	8260C
Dibromomethane	< 1	23 (113 %R)	23 (115 %R) (2 RPD)	4/11/2023	ug/L	70 - 130	20	8260C
Bromodichloromethane	< 0.5	24 (119 %R)	24 (121 %R) (1 RPD)	4/11/2023	ug/L	70 - 130	20	8260C
1,4-Dioxane	< 50	< 50 (128 %R)	< 50 (130 %R) (2 RPD)	4/11/2023	ug/L	40 - 160	20	8260C
4-Methyl-2-pentanone(MIBK)	< 10	23 (113 %R)	23 (114 %R) (1 RPD)	4/11/2023	ug/L	40 - 160	20	8260C
cis-1,3-Dichloropropene	< 0.5	24 (119 %R)	24 (121 %R) (1 RPD)	4/11/2023	ug/L	70 - 130	20	8260C
Toluene	< 1	22 (112 %R)	23 (113 %R) (1 RPD)	4/11/2023	ug/L	70 - 130	20	8260C
trans-1,3-Dichloropropene	< 0.5	25 (123 %R)	25 (124 %R) (1 RPD)	4/11/2023	ug/L	70 - 130	20	8260C
1,1,2-Trichloroethane	< 1	22 (111 %R)	23 (113 %R) (2 RPD)	4/11/2023	ug/L	70 - 130	20	8260C
2-Hexanone	< 10	21 (107 %R)	22 (108 %R) (2 RPD)	4/11/2023	ug/L	40 - 160	20	8260C
Tetrachloroethene	< 1	22 (112 %R)	23 (113 %R) (1 RPD)	4/11/2023	ug/L	70 - 130	20	8260C
1,3-Dichloropropane	< 1	22 (108 %R)	22 (109 %R) (1 RPD)	4/11/2023	ug/L	70 - 130	20	8260C
Dibromochloromethane	< 1	23 (115 %R)	23 (117 %R) (1 RPD)	4/11/2023	ug/L	70 - 130	20	8260C
1,2-Dibromoethane(EDB)	< 0.5	22 (111 %R)	22 (112 %R) (1 RPD)	4/11/2023	ug/L	70 - 130	20	8260C
Chlorobenzene	< 1	22 (112 %R)	23 (113 %R) (1 RPD)	4/11/2023	ug/L	70 - 130	20	8260C
1,1,1,2-Tetrachloroethane	< 1	23 (117 %R)	24 (119 %R) (1 RPD)	4/11/2023	ug/L	70 - 130	20	8260C



QC REPORT

EAI ID#: 258392

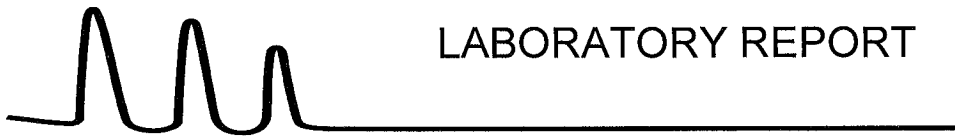
Client: Sanborn, Head & Associates, Inc. (NH)

Batch ID: 638168-14819/A041123V82602

Client Designation: Granite State LF | Surface Water | 1003.24

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
Ethylbenzene	< 1	23 (114 %R)	23 (115 %R) (1 RPD)	4/11/2023	ug/L	70 - 130	20	8260C
mp-Xylene	< 1	46 (115 %R)	46 (116 %R) (1 RPD)	4/11/2023	ug/L	70 - 130	20	8260C
o-Xylene	< 1	24 (118 %R)	24 (119 %R) (1 RPD)	4/11/2023	ug/L	70 - 130	20	8260C
Styrene	< 1	24 (119 %R)	24 (120 %R) (1 RPD)	4/11/2023	ug/L	70 - 130	20	8260C
Bromofom	< 2	25 (124 %R)	25 (126 %R) (1 RPD)	4/11/2023	ug/L	70 - 130	20	8260C
IsoPropylbenzene	< 1	23 (113 %R)	23 (113 %R) (0 RPD)	4/11/2023	ug/L	70 - 130	20	8260C
Bromobenzene	< 1	19 (93 %R)	19 (94 %R) (1 RPD)	4/11/2023	ug/L	70 - 130	20	8260C
1,1,2,2-Tetrachloroethane	< 1	19 (93 %R)	19 (94 %R) (1 RPD)	4/11/2023	ug/L	70 - 130	20	8260C
1,2,3-Trichloropropane	< 0.5	17 (87 %R)	18 (88 %R) (1 RPD)	4/11/2023	ug/L	70 - 130	20	8260C
n-Propylbenzene	< 1	19 (94 %R)	19 (94 %R) (0 RPD)	4/11/2023	ug/L	70 - 130	20	8260C
2-Chlorotoluene	< 1	19 (95 %R)	19 (95 %R) (0 RPD)	4/11/2023	ug/L	70 - 130	20	8260C
4-Chlorotoluene	< 1	19 (96 %R)	19 (96 %R) (0 RPD)	4/11/2023	ug/L	70 - 130	20	8260C
1,3,5-Trimethylbenzene	< 1	20 (98 %R)	20 (98 %R) (0 RPD)	4/11/2023	ug/L	70 - 130	20	8260C
tert-Butylbenzene	< 1	19 (97 %R)	20 (98 %R) (0 RPD)	4/11/2023	ug/L	70 - 130	20	8260C
1,2,4-Trimethylbenzene	< 1	22 (108 %R)	22 (109 %R) (0 RPD)	4/11/2023	ug/L	70 - 130	20	8260C
sec-Butylbenzene	< 1	21 (106 %R)	21 (106 %R) (0 RPD)	4/11/2023	ug/L	70 - 130	20	8260C
1,3-Dichlorobenzene	< 1	21 (107 %R)	22 (108 %R) (1 RPD)	4/11/2023	ug/L	70 - 130	20	8260C
p-Isopropyltoluene	< 1	22 (109 %R)	22 (109 %R) (0 RPD)	4/11/2023	ug/L	70 - 130	20	8260C
1,4-Dichlorobenzene	< 1	21 (105 %R)	21 (105 %R) (1 RPD)	4/11/2023	ug/L	70 - 130	20	8260C
1,2-Dichlorobenzene	< 1	22 (112 %R)	23 (113 %R) (0 RPD)	4/11/2023	ug/L	70 - 130	20	8260C
n-Butylbenzene	< 1	22 (111 %R)	22 (110 %R) (0 RPD)	4/11/2023	ug/L	70 - 130	20	8260C
1,2-Dibromo-3-chloropropane	< 2	22 (109 %R)	22 (110 %R) (1 RPD)	4/11/2023	ug/L	70 - 130	20	8260C
1,3,5-Trichlorobenzene	< 1	24 (120 %R)	24 (120 %R) (0 RPD)	4/11/2023	ug/L	70 - 130	20	8260C
1,2,4-Trichlorobenzene	< 1	23 (113 %R)	23 (115 %R) (1 RPD)	4/11/2023	ug/L	70 - 130	20	8260C
Hexachlorobutadiene	< 0.5	23 (114 %R)	23 (115 %R) (0 RPD)	4/11/2023	ug/L	70 - 130	20	8260C
Naphthalene	< 2	21 (104 %R)	21 (107 %R) (2 RPD)	4/11/2023	ug/L	70 - 130	20	8260C
1,2,3-Trichlorobenzene	< 0.5	21 (104 %R)	21 (105 %R) (1 RPD)	4/11/2023	ug/L	70 - 130	20	8260C
4-Bromofluorobenzene (surr)	110 %R	110 %R	110 %R	4/11/2023	% Rec	70 - 130	20	8260C
1,2-Dichlorobenzene-d4 (surr)	101 %R	103 %R	104 %R	4/11/2023	% Rec	70 - 130	20	8260C
Toluene-d8 (surr)	95 %R	97 %R	96 %R	4/11/2023	% Rec	70 - 130	20	8260C

*// Flagged analyte recoveries deviated from the QA/QC limits. Data that impacts sample results are noted on the sample report.



LABORATORY REPORT

EAI ID#: **258392**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Granite State LF | Surface Water | 1003.24**

Sample ID:	SG-1_20230410	SG-3_20230410	SG-5_20230410	SG-6_20230410
Lab Sample ID:	258392.01	258392.02	258392.03	258392.04
Matrix:	aqueous	aqueous	aqueous	aqueous
Date Sampled:	4/10/23	4/10/23	4/10/23	4/10/23
Date Received:	4/11/23	4/11/23	4/11/23	4/11/23
Units:	ug/L	ug/L	ug/L	ug/L
Date of Analysis:	4/12/23	4/12/23	4/12/23	4/12/23
Analyst:	MKB	MKB	MKB	MKB
Method:	8260B SIM	8260B SIM	8260B SIM	8260B SIM
Dilution Factor:	1	1	1	1
1,4-Dioxane	< 0.25	< 0.25	< 0.25	< 0.25
4-Bromofluorobenzene (surr)	98 %R	96 %R	96 %R	96 %R
Toluene-d8 (surr)	102 %R	102 %R	102 %R	102 %R



LABORATORY REPORT

EAI ID#: **258392**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Granite State LF | Surface Water | 1003.24**

Sample ID:	SG-7_20230410	SG-9_20230410	SG-10_20230410	AB-1_20230410
Lab Sample ID:	258392.05	258392.06	258392.07	258392.08
Matrix:	aqueous	aqueous	aqueous	aqueous
Date Sampled:	4/10/23	4/10/23	4/10/23	4/10/23
Date Received:	4/11/23	4/11/23	4/11/23	4/11/23
Units:	ug/L	ug/L	ug/L	ug/L
Date of Analysis:	4/12/23	4/12/23	4/12/23	4/12/23
Analyst:	MKB	MKB	MKB	MKB
Method:	8260B SIM	8260B SIM	8260B SIM	8260B SIM
Dilution Factor:	1	1	1	1
1,4-Dioxane	< 0.25	< 0.25	< 0.25	< 0.25
4-Bromofluorobenzene (surr)	96 %R	96 %R	96 %R	97 %R
Toluene-d8 (surr)	102 %R	102 %R	102 %R	102 %R



LABORATORY REPORT

EAI ID#: 258392

Client: Sanborn, Head & Associates, Inc. (NH)

Client Designation: Granite State LF | Surface Water | 1003.24

Sample ID: SWDUP-1_20230410 TB-LL-SW-01_20230410

Lab Sample ID:	258392.09	258392.11
Matrix:	aqueous	aqueous
Date Sampled:	4/10/23	4/10/23
Date Received:	4/11/23	4/11/23
Units:	ug/L	ug/L
Date of Analysis:	4/12/23	4/12/23
Analyst:	MKB	MKB
Method:	8260B SIM	8260B SIM
Dilution Factor:	1	1
1,4-Dioxane	< 0.25	< 0.25
4-Bromofluorobenzene (surr)	96 %R	98 %R
Toluene-d8 (surr)	102 %R	102 %R



QC REPORT

EAI ID#: **258392**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Batch ID: 638168-27382/A041123DIOX2

Client Designation: **Granite State LF | Surface Water | 1003.24**

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
1,4-Dioxane	< 0.2	4.5 (89 %R)	4.1 (82 %R) (8 RPD)	4/12/2023	ug/L	70 - 130	20	8260B
4-Bromofluorobenzene (surr)	97 %R	95 %R	97 %R	4/12/2023	% Rec	70 - 130	50	8260B
Toluene-d8 (surr)	102 %R	101 %R	102 %R	4/12/2023	% Rec	70 - 130	50	8260B

*! Flagged analyte recoveries deviated from the QA/QC limits. Data that impacts sample results are noted on the sample report.



LABORATORY REPORT

EAI ID#: **258392**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Granite State LF | Surface Water | 1003.24**

Sample ID:	SG-1_20230410	SG-3_20230410	SG-5_20230410	SG-6_20230410
Lab Sample ID:	258392.01	258392.02	258392.03	258392.04
Matrix:	aqueous	aqueous	aqueous	aqueous
Date Sampled:	4/10/23	4/10/23	4/10/23	4/10/23
Date Received:	4/11/23	4/11/23	4/11/23	4/11/23
Units:	ug/L	ug/L	ug/L	ug/L
Date of Extraction/Prep:	4/12/23	4/12/23	4/12/23	4/12/23
Date of Analysis:	4/12/23	4/12/23	4/12/23	4/12/23
Analyst:	WOD	WOD	WOD	WOD
Method:	8011/504	8011/504	8011/504	8011/504
Dilution Factor:	1	1	1	1
1,2-Dibromoethane(EDB)	< 0.02	< 0.02	< 0.02	< 0.02
Dibromochloropropane (DBCP)	< 0.02	< 0.02	< 0.02	< 0.02
1,1,1,2-Tetrachloroethane (surr)	90 %R	85 %R	79 %R	90 %R



LABORATORY REPORT

EAI ID#: **258392**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Granite State LF | Surface Water | 1003.24**

Sample ID:	SG-7_20230410	SG-9_20230410	SG-10_20230410	AB-1_20230410
Lab Sample ID:	258392.05	258392.06	258392.07	258392.08
Matrix:	aqueous	aqueous	aqueous	aqueous
Date Sampled:	4/10/23	4/10/23	4/10/23	4/10/23
Date Received:	4/11/23	4/11/23	4/11/23	4/11/23
Units:	ug/L	ug/L	ug/L	ug/L
Date of Extraction/Prep:	4/12/23	4/12/23	4/12/23	4/12/23
Date of Analysis:	4/12/23	4/12/23	4/12/23	4/12/23
Analyst:	WOD	WOD	WOD	WOD
Method:	8011/504	8011/504	8011/504	8011/504
Dilution Factor:	1	1	1	1
1,2-Dibromoethane(EDB)	< 0.02	< 0.02	< 0.02	< 0.02
Dibromochloropropane (DBCP)	< 0.02	< 0.02	< 0.02	< 0.02
1,1,1,2-Tetrachloroethane (surr)	82 %R	89 %R	82 %R	90 %R



LABORATORY REPORT

EAI ID#: 258392

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Granite State LF | Surface Water | 1003.24**

Sample ID: SWDUP-1_20230410

Lab Sample ID: 258392.09
Matrix: aqueous
Date Sampled: 4/10/23
Date Received: 4/11/23
Units: ug/L
Date of Extraction/Prep: 4/12/23
Date of Analysis: 4/12/23
Analyst: WOD
Method: 8011/504
Dilution Factor: 1

1,2-Dibromoethane(EDB) < 0.02
Dibromochloropropane (DBCP) < 0.02
1,1,1,2-Tetrachloroethane (surr) 84 %R



QC REPORT

EAI ID#: **258392**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Batch ID: 638168-88430/A041223E5041

Client Designation: **Granite State LF | Surface Water | 1003.24**

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
1,2-Dibromoethane(EDB)	< 0.02	0.097 (97 %R)	0.094 (94 %R) (3 RPD)	4/12/2023	ug/L	70 - 130	20	8011/504
Dibromochloropropane (DBCP)	< 0.02	0.095 (95 %R)	0.093 (93 %R) (1 RPD)	4/12/2023	ug/L	70 - 130	20	8011/504
1,1,1,2-Tetrachloroethane (surr)	86 %R	89 %R	85 %R	4/12/2023	% Rec	65 - 135	20	8011/504

*! Flagged analyte recoveries deviated from the QA/QC limits. Data that impacts sample results are noted on the sample report.



LABORATORY REPORT

EAI ID#: 258392

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Granite State LF | Surface Water | 1003.24**

Sample ID:	SG-1_20230410	SG -3_20230410	SG -5_20230410	SG -6_20230410		Analysis				
Lab Sample ID:	258392.01	258392.02	258392.03	258392.04		Units	Date	Time	Method	Analyst
Matrix:	aqueous	aqueous	aqueous	aqueous						
Date Sampled:	4/10/23	4/10/23	4/10/23	4/10/23						
Date Received:	4/11/23	4/11/23	4/11/23	4/11/23						
Sulfate	3.1	9.3	2.6	3.6	mg/L	04/13/23	15:06		300.0	ALM
Chloride	< 1	< 1	< 1	< 1	mg/L	04/11/23	14:54		4500CIE-11	ALM
Nitrate-N	< 0.5	0.65	< 0.5	< 0.5	mg/L	04/11/23	14:54		353.2	ALM
Alkalinity Total (CaCO3)	5.6	41	3.8	3.7	mg/L	04/12/23	9:24		2320B-11	BAF
Cyanide Free	< 0.005	< 0.005	< 0.005	< 0.005	mg/L	04/12/23	10:10		OIA-1677-09	SEC
TKN	< 0.5	< 0.5	< 0.5	< 0.5	mg/L	04/13/23	15:09		4500N _{org} C/NH3D	PEN
COD	< 10	< 10	16	11	mg/L	04/11/23	13:50		H8000	JCS
Dissolved Organic Carbon	3.8	2	8.6	3.8	mg/L	04/13/23	12:16		5310C-11	LO

Sample ID:	SG-7_20230410	SG -9_20230410	SG -10_20230410	AB -1_20230410		Analysis				
Lab Sample ID:	258392.05	258392.06	258392.07	258392.08		Units	Date	Time	Method	Analyst
Matrix:	aqueous	aqueous	aqueous	aqueous						
Date Sampled:	4/10/23	4/10/23	4/10/23	4/10/23						
Date Received:	4/11/23	4/11/23	4/11/23	4/11/23						
Sulfate	3	2.6	3.2	13	mg/L	04/13/23	17:16		300.0	ALM
Chloride	< 1	< 1	< 1	< 1	mg/L	04/11/23	14:59		4500CIE-11	ALM
Nitrate-N	< 0.5	< 0.5	< 0.5	< 0.5	mg/L	04/11/23	14:59		353.2	ALM
Alkalinity Total (CaCO3)	5.7	6.3	7.7	11	mg/L	04/12/23	9:24		2320B-11	BAF
Cyanide Free	< 0.005	< 0.005	< 0.005	< 0.005	mg/L	04/12/23	10:51		OIA-1677-09	SEC
TKN	< 0.5	< 0.5	< 0.5	< 0.5	mg/L	04/13/23	15:19		4500N _{org} C/NH3D	PEN
COD	18	10	16	< 10	mg/L	04/11/23	13:50		H8000	JCS
Dissolved Organic Carbon	7.1	2.3	5.7	4.1	mg/L	04/13/23	14:19		5310C-11	LO



LABORATORY REPORT

EAI ID#: 258392

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Granite State LF | Surface Water | 1003.24**

Sample ID: SWDUP
-1_20230410

Lab Sample ID: 258392.09

Matrix: aqueous

Date Sampled: 4/10/23

Date Received: 4/11/23

Sulfate **9.2**
 Chloride < 1
 Nitrate-N **0.64**
 Alkalinity Total (CaCO₃) **39**
 Cyanide Free < 0.005
 TKN < 0.5
 COD **19**
 Dissolved Organic Carbon **2.1**

Units	Analysis		Method	Analyst
	Date	Time		
mg/L	4/13/23	18:14	300.0	ALM
mg/L	4/11/23	15:05	4500CIE-11	ALM
mg/L	4/11/23	15:05	353.2	ALM
mg/L	4/12/23	9:24	2320B-11	BAF
mg/L	4/12/23	11:42	OIA-1677-09	SEC
mg/L	4/13/23	15:30	4500N _{org} C/NH3D	PEN
mg/L	4/11/23	13:50	H8000	JCS
mg/L	4/13/23	15:13	5310C-11	LO



QC REPORT

EAI ID#: 258392

Client: Sanborn, Head & Associates, Inc. (NH)

Client Designation: Granite State LF | Surface Water | 1003.24

Parameter Name	Blank	LCS	LCSD	Units	Date of Analysis	Limits	RPD	Method
Sulfate	< 1	21 (103 %R)	21 (103 %R) (1 RPD)	mg/L	4/14/23	90 - 110	20	300.0
Chloride	< 1	27 (109 %R)	27 (108 %R) (1 RPD)	mg/L	4/11/23	90 - 110	20	4500CIE-11
Nitrate-N	< 0.5	5.0 (100 %R)	4.7 (94 %R) (6 RPD)	mg/L	4/11/23	90 - 110	20	353.2
Alkalinity Total (CaCO3)	< 1	9.1 (91 %R)	10 (103 %R) (12 RPD)	mg/L	4/12/23	85 - 115	20	2320B-11
Cyanide Free	< 0.005	0.25 (99 %R)	0.26 (106 %R) (7 RPD)	mg/L	4/12/23	82 - 132	20	OIA-1677-09
TKN	< 0.5	11 (106 %R)	11 (109 %R) (2 RPD)	mg/L	4/13/23	90 - 111	20	4500N _{org} C/NH3D-11
COD	< 10	110 (110 %R)	110 (112 %R) (2 RPD)	mg/L	4/11/23	85 - 115	20	H8000
Dissolved Organic Carbon	< 0.5	5.1 (102 %R)	5.2 (103 %R) (1 RPD)	mg/L	4/13/23	90 - 110	20	5310C-11

*! Flagged analyte recoveries deviated from the QA/QC limits. Unless noted, flagged data does not impact the sample data.



LABORATORY REPORT

EAI ID#: **258392**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Granite State LF | Surface Water | 1003.24**

Sample ID:	SG	SG	SG						
	SG-1_20230410	-3_20230410	-5_20230410	-6_20230410					
Lab Sample ID:	258392.01	258392.02	258392.03	258392.04					
Matrix:	aqueous	aqueous	aqueous	aqueous					
Date Sampled:	4/10/23	4/10/23	4/10/23	4/10/23	Analytical Matrix	Units	Date of Analysis	Method	Analyst
Date Received:	4/11/23	4/11/23	4/11/23	4/11/23					
Aluminum	0.065	< 0.05	0.10	0.075	AqDis	mg/L	4/11/23	200.8	DS
Antimony	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	4/11/23	200.8	DS
Arsenic	< 0.0005	< 0.0005	< 0.0005	< 0.0005	AqDis	mg/L	4/11/23	200.8	DS
Barium	0.0076	0.0086	0.0056	0.0057	AqDis	mg/L	4/11/23	200.8	DS
Beryllium	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	4/11/23	200.8	DS
Cadmium	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	4/11/23	200.8	DS
Chromium	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	4/11/23	200.8	DS
Copper	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	4/11/23	200.8	DS
Iron	< 0.05	< 0.05	< 0.05	< 0.05	AqDis	mg/L	4/11/23	200.8	DS
Lead	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	4/11/23	200.8	DS
Magnesium	0.44	1.3	0.38	0.35	AqDis	mg/L	4/11/23	200.8	DS
Manganese	< 0.005	0.0085	0.0058	< 0.005	AqDis	mg/L	4/11/23	200.8	DS
Nickel	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	4/11/23	200.8	DS
Potassium	0.28	1.0	0.27	0.16	AqDis	mg/L	4/11/23	200.8	DS
Selenium	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	4/11/23	200.8	DS
Silver	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	4/11/23	200.8	DS
Thallium	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	4/11/23	200.8	DS
Zinc	0.011	< 0.005	0.0096	0.0089	AqDis	mg/L	4/11/23	200.8	DS
Total Hardness (as CaCO3)	8.3	51	7.4	6.5	AqTot	mg/L	4/13/23	2340B	DS



LABORATORY REPORT

EAI ID#: **258392**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Granite State LF | Surface Water | 1003.24**

Sample ID:	SG	SG	SG	AB					
	SG-7_20230410	-9_20230410	-10_20230410	-1_20230410					
Lab Sample ID:	258392.05	258392.06	258392.07	258392.08					
Matrix:	aqueous	aqueous	aqueous	aqueous					
Date Sampled:	4/10/23	4/10/23	4/10/23	4/10/23	Analytical Matrix	Units	Date of Analysis	Method	Analyst
Date Received:	4/11/23	4/11/23	4/11/23	4/11/23					
Aluminum	0.14	0.082	< 0.05	< 0.05	AqDis	mg/L	4/11/23	200.8	DS
Antimony	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	4/11/23	200.8	DS
Arsenic	< 0.0005	< 0.0005	< 0.0005	< 0.0005	AqDis	mg/L	4/11/23	200.8	DS
Barium	0.0067	0.0069	0.0068	0.0053	AqDis	mg/L	4/11/23	200.8	DS
Beryllium	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	4/11/23	200.8	DS
Cadmium	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	4/11/23	200.8	DS
Chromium	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	4/11/23	200.8	DS
Copper	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	4/11/23	200.8	DS
Iron	0.078	< 0.05	< 0.05	< 0.05	AqDis	mg/L	4/11/23	200.8	DS
Lead	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	4/11/23	200.8	DS
Magnesium	0.44	0.34	0.59	1.4	AqDis	mg/L	4/11/23	200.8	DS
Manganese	0.0069	< 0.005	0.0063	0.011	AqDis	mg/L	4/11/23	200.8	DS
Nickel	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	4/11/23	200.8	DS
Potassium	0.15	0.35	0.47	0.59	AqDis	mg/L	4/11/23	200.8	DS
Selenium	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	4/11/23	200.8	DS
Silver	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	4/11/23	200.8	DS
Thallium	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	4/11/23	200.8	DS
Zinc	< 0.005	< 0.005	0.0064	< 0.005	AqDis	mg/L	4/11/23	200.8	DS
Total Hardness (as CaCO3)	8.3	5.7	10	23	AqTot	mg/L	4/13/23	2340B	DS



LABORATORY REPORT

EAI ID#: **258392**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Granite State LF | Surface Water | 1003.24**

Sample ID: SWDUP
-1_20230410

Lab Sample ID: 258392.09

Matrix: aqueous

Date Sampled: 4/10/23

Date Received: 4/11/23

		Analytical Matrix	Units	Date of Analysis	Method	Analyst
Aluminum	< 0.05	AqDis	mg/L	4/11/23	200.8	DS
Antimony	< 0.001	AqDis	mg/L	4/11/23	200.8	DS
Arsenic	< 0.0005	AqDis	mg/L	4/11/23	200.8	DS
Barium	0.0084	AqDis	mg/L	4/11/23	200.8	DS
Beryllium	< 0.001	AqDis	mg/L	4/11/23	200.8	DS
Cadmium	< 0.001	AqDis	mg/L	4/11/23	200.8	DS
Chromium	< 0.001	AqDis	mg/L	4/11/23	200.8	DS
Copper	< 0.001	AqDis	mg/L	4/11/23	200.8	DS
Iron	< 0.05	AqDis	mg/L	4/11/23	200.8	DS
Lead	< 0.001	AqDis	mg/L	4/11/23	200.8	DS
Magnesium	1.4	AqDis	mg/L	4/11/23	200.8	DS
Manganese	0.0083	AqDis	mg/L	4/11/23	200.8	DS
Nickel	< 0.001	AqDis	mg/L	4/11/23	200.8	DS
Potassium	1.1	AqDis	mg/L	4/11/23	200.8	DS
Selenium	< 0.001	AqDis	mg/L	4/11/23	200.8	DS
Silver	< 0.001	AqDis	mg/L	4/11/23	200.8	DS
Thallium	< 0.001	AqDis	mg/L	4/11/23	200.8	DS
Zinc	< 0.005	AqDis	mg/L	4/11/23	200.8	DS
Total Hardness (as CaCO ₃)	52	AqTot	mg/L	4/13/23	2340B	DS



QC REPORT

EAI ID#: 258392

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Granite State LF | Surface Water | 1003.24**

Parameter Name	Blank	LCS	LCSD	Units	Date of Analysis	Limits	RPD	Method
Aluminum	< 0.05	10 (102 %R)	NA	mg/L	4/11/23	85 - 115	20	200.8
Antimony	< 0.001	0.22 (108 %R)	NA	mg/L	4/11/23	85 - 115	20	200.8
Arsenic	< 0.0005	0.21 (104 %R)	NA	mg/L	4/11/23	85 - 115	20	200.8
Barium	< 0.001	0.21 (104 %R)	NA	mg/L	4/11/23	85 - 115	20	200.8
Beryllium	< 0.001	0.25 (123 %R)	NA	mg/L	4/11/23	85 - 115	20	200.8
Cadmium	< 0.001	0.20 (102 %R)	NA	mg/L	4/11/23	85 - 115	20	200.8
Chromium	< 0.001	0.21 (106 %R)	NA	mg/L	4/11/23	85 - 115	20	200.8
Copper	< 0.001	0.20 (101 %R)	NA	mg/L	4/11/23	85 - 115	20	200.8
Iron	< 0.05	10 (105 %R)	NA	mg/L	4/11/23	85 - 115	20	200.8
Lead	< 0.001	0.20 (102 %R)	NA	mg/L	4/11/23	85 - 115	20	200.8
Magnesium	< 0.05	10 (103 %R)	NA	mg/L	4/11/23	85 - 115	20	200.8
Manganese	< 0.005	0.21 (105 %R)	NA	mg/L	4/11/23	85 - 115	20	200.8
Nickel	< 0.001	0.21 (103 %R)	NA	mg/L	4/11/23	85 - 115	20	200.8
Potassium	< 0.05	9.9 (99 %R)	NA	mg/L	4/11/23	85 - 115	20	200.8
Selenium	< 0.001	0.21 (107 %R)	NA	mg/L	4/11/23	85 - 115	20	200.8
Silver	< 0.001	0.0098 (98 %R)	NA	mg/L	4/11/23	85 - 115	20	200.8
Thallium	< 0.001	0.20 (100 %R)	NA	mg/L	4/11/23	85 - 115	20	200.8
Zinc	< 0.005	0.22 (108 %R)	NA	mg/L	4/11/23	85 - 115	20	200.8

*! Flagged analyte recoveries deviated from the QA/QC limits. Unless noted, flagged data does not impact the sample data.

Lilly Corenthal
Sanborn, Head & Associates, Inc. (NH)
20 Foundry Street
Concord, NH 03301



Laboratory Report for:

Eastern Analytical, Inc. ID: 258393
Client Identification: Granite State LF | Groundwater | 1003.24
Date Received: 4/11/2023

Enclosed are the analytical results per the Chain of Custody for sample(s) in the referenced project. All analyses were performed in accordance with our QA/QC Program, NELAP and other applicable state requirements. All quality control criteria was within acceptance criteria unless noted on the report pages. Results are for the exclusive use of the client named on this report and will not be released to a third party without consent.

The following information is contained within this report: Sample Conditions summary, Analytical Results/Data, Quality Control data (if requested) and copies of the Chain of Custody. This report may not be reproduced except in full, without the written approval of the laboratory.

The following standard abbreviations and conventions apply to all EAI reports:

- < : "less than" followed by the reporting limit
- > : "greater than" followed by the reporting limit
- %R : % Recovery

Certifications:

Eastern Analytical, Inc. maintains certification in the following states: Connecticut (PH-0492), Maine (NH005), Massachusetts (M-NH005), New Hampshire/NELAP (1012), Rhode Island (269), Vermont (VT1012), New York (12072) and West Virginia (9910C). Please refer to our website at www.easternanalytical.com for a copy of our certificates and accredited parameters.

References:

- EPA 600/4-79-020, 1983
- Standard Methods for Examination of Water and Wastewater, 20th, 21st, 22nd & 23rd edition or noted revision year.
- Test Methods for Evaluating Solid Waste SW 846 3rd Edition including updates IVA and IVB
- Hach Water Analysis Handbook, 4th edition, 1992
- ASTM International

If you have any questions regarding the results contained within, please feel free to contact customer service. Unless otherwise requested, we will dispose of the sample(s) 6 weeks from the sample receipt date.

We appreciate this opportunity to be of service and look forward to your continued patronage.

Sincerely,


Lorraine Olashaw, Lab Director

4.18.23
Date



SAMPLE CONDITIONS PAGE

EAI ID#: 258393

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Granite State LF | Groundwater | 1003.24**

Temperature upon receipt (°C): 2.3

Received on ice or cold packs (Yes/No): Y

Acceptable temperature range (°C): 0-6

Lab ID	Sample ID	Date Received	Date/Time Sampled	Sample Matrix	% Dry Weight	Exceptions/Comments (other than thermal preservation)
258393.01	MW-2_20230410	4/11/23	4/10/23 09:47	aqueous		Adheres to Sample Acceptance Policy
258393.02	MW-15_20230410	4/11/23	4/10/23 14:20	aqueous		Adheres to Sample Acceptance Policy
258393.03	MW-23_20230410	4/11/23	4/10/23 13:16	aqueous		Adheres to Sample Acceptance Policy
258393.04	MW-42_20230410	4/11/23	4/10/23 11:52	aqueous		Adheres to Sample Acceptance Policy
258393.05	MW-42R_20230410	4/11/23	4/10/23 12:02	aqueous		Adheres to Sample Acceptance Policy
258393.06	MW-11_20230410	4/11/23	4/10/23 16:55	aqueous		Adheres to Sample Acceptance Policy
258393.07	TB-GW-01_20230410	4/11/23	4/10/23 17:30	aqueous		Adheres to Sample Acceptance Policy
258393.08	TB-LL-GW-01_20230410	4/11/23	4/10/23 17:30	aqueous		Adheres to Sample Acceptance Policy

All results contained in this report relate only to the above listed samples.

Unless otherwise noted:

- Hold times, preservation, container types, and sample conditions adhered to EPA Protocol.
- Solid samples are reported on a dry weight basis, unless otherwise noted. pH/Corrosivity, Flashpoint, Ignitability, Paint Filter, Conductivity and Specific Gravity are always reported on an "as received" basis.
- Analysis of pH, Total Residual Chlorine, Dissolved Oxygen and Sulfite were performed at the laboratory outside of the recommended 15 minute hold time.
- Samples collected by Eastern Analytical, Inc. (EAI) were collected in accordance with approved EPA procedures.



LABORATORY REPORT

EAI ID#: **258393**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Granite State LF | Groundwater | 1003.24**

Sample ID:	MW-2_20230410	MW-15_20230410	MW-23_20230410	MW-42_20230410
Lab Sample ID:	258393.01	258393.02	258393.03	258393.04
Matrix:	aqueous	aqueous	aqueous	aqueous
Date Sampled:	4/10/23	4/10/23	4/10/23	4/10/23
Date Received:	4/11/23	4/11/23	4/11/23	4/11/23
Units:	ug/L	ug/L	ug/L	ug/L
Date of Analysis:	4/11/23	4/11/23	4/11/23	4/12/23
Analyst:	JAK	JAK	JAK	JAK
Method:	8260C	8260C	8260C	8260C
Dilution Factor:	1	1	1	1
Dichlorodifluoromethane	< 2	< 2	< 2	< 2
Chloromethane	< 2	< 2	< 2	< 2
Vinyl chloride	< 1	< 1	< 1	< 1
Bromomethane	< 2	< 2	< 2	< 2
Chloroethane	< 2	< 2	< 2	< 2
Trichlorofluoromethane	< 2	< 2	< 2	< 2
Diethyl Ether	< 2	< 2	< 2	< 2
Acetone	< 10	< 10	< 10	< 10
1,1-Dichloroethene	< 0.5	< 0.5	< 0.5	< 0.5
tert-Butyl Alcohol (TBA)	< 30	< 30	< 30	< 30
Methylene chloride	< 1	< 1	< 1	< 1
Carbon disulfide	< 2	< 2	< 2	< 2
Methyl-t-butyl ether(MTBE)	< 1	< 1	< 1	< 1
Ethyl-t-butyl ether(ETBE)	< 2	< 2	< 2	< 2
Isopropyl ether(DIPE)	< 2	< 2	< 2	< 2
tert-amyl methyl ether(TAME)	< 2	< 2	< 2	< 2
trans-1,2-Dichloroethene	< 1	< 1	< 1	< 1
1,1-Dichloroethane	< 1	< 1	< 1	< 1
2,2-Dichloropropane	< 1	< 1	< 1	< 1
cis-1,2-Dichloroethene	< 1	< 1	< 1	< 1
2-Butanone(MEK)	< 10	< 10	< 10	< 10
Bromochloromethane	< 1	< 1	< 1	< 1
Tetrahydrofuran(THF)	< 10	< 10	< 10	< 10
Chloroform	< 1	< 1	< 1	< 1
1,1,1-Trichloroethane	< 1	< 1	< 1	< 1
Carbon tetrachloride	< 1	< 1	< 1	< 1
1,1-Dichloropropene	< 1	< 1	< 1	< 1
Benzene	< 1	< 1	< 1	< 1
1,2-Dichloroethane	< 1	< 1	< 1	< 1
Trichloroethene	< 1	< 1	< 1	< 1
1,2-Dichloropropane	< 1	< 1	< 1	< 1
Dibromomethane	< 1	< 1	< 1	< 1
Bromodichloromethane	< 0.5	< 0.5	< 0.5	< 0.5
1,4-Dioxane	< 50	< 50	< 50	< 50
4-Methyl-2-pentanone(MIBK)	< 10	< 10	< 10	< 10
cis-1,3-Dichloropropene	< 0.5	< 0.5	< 0.5	< 0.5
Toluene	< 1	< 1	< 1	< 1
trans-1,3-Dichloropropene	< 0.5	< 0.5	< 0.5	< 0.5
1,1,2-Trichloroethane	< 1	< 1	< 1	< 1
2-Hexanone	< 10	< 10	< 10	< 10
Tetrachloroethene	< 1	< 1	< 1	< 1
1,3-Dichloropropane	< 1	< 1	< 1	< 1
Dibromochloromethane	< 1	< 1	< 1	< 1
1,2-Dibromoethane(EDB)	< 0.5	< 0.5	< 0.5	< 0.5
Chlorobenzene	< 1	< 1	< 1	< 1
1,1,1,2-Tetrachloroethane	< 1	< 1	< 1	< 1



LABORATORY REPORT

EAI ID#: **258393**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Granite State LF | Groundwater | 1003.24**

Sample ID:	MW-2_20230410	MW-15_20230410	MW-23_20230410	MW-42_20230410
Lab Sample ID:	258393.01	258393.02	258393.03	258393.04
Matrix:	aqueous	aqueous	aqueous	aqueous
Date Sampled:	4/10/23	4/10/23	4/10/23	4/10/23
Date Received:	4/11/23	4/11/23	4/11/23	4/11/23
Units:	ug/L	ug/L	ug/L	ug/L
Date of Analysis:	4/11/23	4/11/23	4/11/23	4/12/23
Analyst:	JAK	JAK	JAK	JAK
Method:	8260C	8260C	8260C	8260C
Dilution Factor:	1	1	1	1
Ethylbenzene	< 1	< 1	< 1	< 1
mp-Xylene	< 1	< 1	< 1	< 1
o-Xylene	< 1	< 1	< 1	< 1
Styrene	< 1	< 1	< 1	< 1
Bromoform	< 2	< 2	< 2	< 2
IsoPropylbenzene	< 1	< 1	< 1	< 1
Bromobenzene	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	< 1	< 1	< 1	< 1
1,2,3-Trichloropropane	< 0.5	< 0.5	< 0.5	< 0.5
n-Propylbenzene	< 1	< 1	< 1	< 1
2-Chlorotoluene	< 1	< 1	< 1	< 1
4-Chlorotoluene	< 1	< 1	< 1	< 1
1,3,5-Trimethylbenzene	< 1	< 1	< 1	< 1
tert-Butylbenzene	< 1	< 1	< 1	< 1
1,2,4-Trimethylbenzene	< 1	< 1	< 1	< 1
sec-Butylbenzene	< 1	< 1	< 1	< 1
1,3-Dichlorobenzene	< 1	< 1	< 1	< 1
p-Isopropyltoluene	< 1	< 1	< 1	< 1
1,4-Dichlorobenzene	< 1	< 1	< 1	< 1
1,2-Dichlorobenzene	< 1	< 1	< 1	< 1
n-Butylbenzene	< 1	< 1	< 1	< 1
1,2-Dibromo-3-chloropropane	< 2	< 2	< 2	< 2
1,3,5-Trichlorobenzene	< 1	< 1	< 1	< 1
1,2,4-Trichlorobenzene	< 1	< 1	< 1	< 1
Hexachlorobutadiene	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	< 2	< 2	< 2	< 2
1,2,3-Trichlorobenzene	< 0.5	< 0.5	< 0.5	< 0.5
4-Bromofluorobenzene (surr)	94 %R	93 %R	93 %R	94 %R
1,2-Dichlorobenzene-d4 (surr)	101 %R	102 %R	102 %R	101 %R
Toluene-d8 (surr)	99 %R	100 %R	99 %R	100 %R
1,2-Dichloroethane-d4 (surr)	108 %R	108 %R	109 %R	107 %R



LABORATORY REPORT

EAI ID#: 258393

Client: Sanborn, Head & Associates, Inc. (NH)

Client Designation: Granite State LF | Groundwater | 1003.24

Sample ID:	MW-42R_20230410	MW-11_20230410	TB-GW-01_20230410
Lab Sample ID:	258393.05	258393.06	258393.07
Matrix:	aqueous	aqueous	aqueous
Date Sampled:	4/10/23	4/10/23	4/10/23
Date Received:	4/11/23	4/11/23	4/11/23
Units:	ug/L	ug/L	ug/L
Date of Analysis:	4/12/23	4/12/23	4/12/23
Analyst:	JAK	JAK	JAK
Method:	8260C	8260C	8260C
Dilution Factor:	1	1	1
Dichlorodifluoromethane	< 2	< 2	< 2
Chloromethane	< 2	< 2	< 2
Vinyl chloride	< 1	< 1	< 1
Bromomethane	< 2	< 2	< 2
Chloroethane	< 2	< 2	< 2
Trichlorofluoromethane	< 2	< 2	< 2
Diethyl Ether	< 2	< 2	< 2
Acetone	< 10	< 10	< 10
1,1-Dichloroethene	< 0.5	< 0.5	< 0.5
tert-Butyl Alcohol (TBA)	< 30	< 30	< 30
Methylene chloride	< 1	< 1	< 1
Carbon disulfide	< 2	< 2	< 2
Methyl-t-butyl ether(MTBE)	< 1	< 1	< 1
Ethyl-t-butyl ether(ETBE)	< 2	< 2	< 2
Isopropyl ether(DIPE)	< 2	< 2	< 2
tert-amyl methyl ether(TAME)	< 2	< 2	< 2
trans-1,2-Dichloroethene	< 1	< 1	< 1
1,1-Dichloroethane	< 1	< 1	< 1
2,2-Dichloropropane	< 1	< 1	< 1
cis-1,2-Dichloroethene	< 1	< 1	< 1
2-Butanone(MEK)	< 10	< 10	< 10
Bromochloromethane	< 1	< 1	< 1
Tetrahydrofuran(THF)	< 10	< 10	< 10
Chloroform	< 1	< 1	< 1
1,1,1-Trichloroethane	< 1	< 1	< 1
Carbon tetrachloride	< 1	< 1	< 1
1,1-Dichloropropene	< 1	< 1	< 1
Benzene	< 1	< 1	< 1
1,2-Dichloroethane	< 1	< 1	< 1
Trichloroethene	< 1	< 1	< 1
1,2-Dichloropropane	< 1	< 1	< 1
Dibromomethane	< 1	< 1	< 1
Bromodichloromethane	< 0.5	< 0.5	< 0.5
1,4-Dioxane	< 50	< 50	< 50
4-Methyl-2-pentanone(MIBK)	< 10	< 10	< 10
cis-1,3-Dichloropropene	< 0.5	< 0.5	< 0.5
Toluene	< 1	< 1	< 1
trans-1,3-Dichloropropene	< 0.5	< 0.5	< 0.5
1,1,2-Trichloroethane	< 1	< 1	< 1
2-Hexanone	< 10	< 10	< 10
Tetrachloroethene	< 1	< 1	< 1
1,3-Dichloropropane	< 1	< 1	< 1
Dibromochloromethane	< 1	< 1	< 1
1,2-Dibromoethane(EDB)	< 0.5	< 0.5	< 0.5
Chlorobenzene	< 1	< 1	< 1
1,1,1,2-Tetrachloroethane	< 1	< 1	< 1



LABORATORY REPORT

EAI ID#: 258393

Client: Sanborn, Head & Associates, Inc. (NH)

Client Designation: Granite State LF | Groundwater | 1003.24

Sample ID:	MW-42R_20230410	MW-11_20230410	TB-GW-01_20230410
Lab Sample ID:	258393.05	258393.06	258393.07
Matrix:	aqueous	aqueous	aqueous
Date Sampled:	4/10/23	4/10/23	4/10/23
Date Received:	4/11/23	4/11/23	4/11/23
Units:	ug/L	ug/L	ug/L
Date of Analysis:	4/12/23	4/12/23	4/12/23
Analyst:	JAK	JAK	JAK
Method:	8260C	8260C	8260C
Dilution Factor:	1	1	1
Ethylbenzene	< 1	< 1	< 1
mp-Xylene	< 1	< 1	< 1
o-Xylene	< 1	< 1	< 1
Styrene	< 1	< 1	< 1
Bromoform	< 2	< 2	< 2
IsoPropylbenzene	< 1	< 1	< 1
Bromobenzene	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	< 1	< 1	< 1
1,2,3-Trichloropropane	< 0.5	< 0.5	< 0.5
n-Propylbenzene	< 1	< 1	< 1
2-Chlorotoluene	< 1	< 1	< 1
4-Chlorotoluene	< 1	< 1	< 1
1,3,5-Trimethylbenzene	< 1	< 1	< 1
tert-Butylbenzene	< 1	< 1	< 1
1,2,4-Trimethylbenzene	< 1	< 1	< 1
sec-Butylbenzene	< 1	< 1	< 1
1,3-Dichlorobenzene	< 1	< 1	< 1
p-Isopropyltoluene	< 1	< 1	< 1
1,4-Dichlorobenzene	< 1	< 1	< 1
1,2-Dichlorobenzene	< 1	< 1	< 1
n-Butylbenzene	< 1	< 1	< 1
1,2-Dibromo-3-chloropropane	< 2	< 2	< 2
1,3,5-Trichlorobenzene	< 1	< 1	< 1
1,2,4-Trichlorobenzene	< 1	< 1	< 1
Hexachlorobutadiene	< 0.5	< 0.5	< 0.5
Naphthalene	< 2	< 2	< 2
1,2,3-Trichlorobenzene	< 0.5	< 0.5	< 0.5
4-Bromofluorobenzene (surr)	94 %R	94 %R	95 %R
1,2-Dichlorobenzene-d4 (surr)	101 %R	101 %R	100 %R
Toluene-d8 (surr)	99 %R	99 %R	100 %R
1,2-Dichloroethane-d4 (surr)	108 %R	108 %R	107 %R



QC REPORT

EAI ID#: 258393

Client: Sanborn, Head & Associates, Inc. (NH)

Batch ID: 638168-06780/A041123V82601

Client Designation: Granite State LF | Groundwater | 1003.24

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
Dichlorodifluoromethane	< 2	23 (114 %R)	21 (104 %R) (10 RPD)	4/11/2023	ug/L	40 - 160	20	8260C
Chloromethane	< 2	17 (84 %R)	18 (89 %R) (5 RPD)	4/11/2023	ug/L	40 - 160	20	8260C
Vinyl chloride	< 1	25 (127 %R)	23 (116 %R) (9 RPD)	4/11/2023	ug/L	70 - 130	20	8260C
Bromomethane	< 2	20 (101 %R)	16 (78 %R) (25 RPD) !	4/11/2023	ug/L	40 - 160	20	8260C
Chloroethane	< 2	25 (123 %R)	23 (114 %R) (8 RPD)	4/11/2023	ug/L	70 - 130	20	8260C
Trichlorofluoromethane	< 2	25 (125 %R)	24 (118 %R) (6 RPD)	4/11/2023	ug/L	70 - 130	20	8260C
Dlethyl Ether	< 2	19 (97 %R)	19 (96 %R) (1 RPD)	4/11/2023	ug/L	70 - 130	20	8260C
Acetone	< 10	22 (110 %R)	24 (118 %R) (7 RPD)	4/11/2023	ug/L	40 - 160	20	8260C
1,1-Dichloroethene	< 0.5	22 (112 %R)	21 (107 %R) (5 RPD)	4/11/2023	ug/L	70 - 130	20	8260C
tert-Butyl Alcohol (TBA)	< 30	120 (120 %R)	130 (127 %R) (5 RPD)	4/11/2023	ug/L	70 - 130	20	8260C
Methylene chloride	< 1	22 (112 %R)	21 (107 %R) (5 RPD)	4/11/2023	ug/L	70 - 130	20	8260C
Carbon disulfide	< 2	22 (108 %R)	21 (106 %R) (2 RPD)	4/11/2023	ug/L	70 - 130	20	8260C
Methyl-t-butyl ether(MTBE)	< 1	23 (115 %R)	23 (116 %R) (1 RPD)	4/11/2023	ug/L	70 - 130	20	8260C
Ethyl-t-butyl ether(ETBE)	< 2	23 (116 %R)	23 (117 %R) (0 RPD)	4/11/2023	ug/L	70 - 130	20	8260C
Isopropyl ether(DIPE)	< 2	24 (121 %R)	24 (120 %R) (1 RPD)	4/11/2023	ug/L	70 - 130	20	8260C
tert-amyl methyl ether(TAME)	< 2	23 (115 %R)	23 (116 %R) (1 RPD)	4/11/2023	ug/L	70 - 130	20	8260C
trans-1,2-Dichloroethene	< 1	22 (111 %R)	21 (106 %R) (5 RPD)	4/11/2023	ug/L	70 - 130	20	8260C
1,1-Dichloroethane	< 1	24 (121 %R)	23 (115 %R) (5 RPD)	4/11/2023	ug/L	70 - 130	20	8260C
2,2-Dichloropropane	< 1	26 (128 %R)	24 (118 %R) (8 RPD)	4/11/2023	ug/L	70 - 130	20	8260C
cis-1,2-Dichloroethene	< 1	24 (121 %R)	23 (116 %R) (4 RPD)	4/11/2023	ug/L	70 - 130	20	8260C
2-Butanone(MEK)	< 10	24 (122 %R)	25 (127 %R) (4 RPD)	4/11/2023	ug/L	40 - 160	20	8260C
Bromochloromethane	< 1	22 (108 %R)	22 (112 %R) (4 RPD)	4/11/2023	ug/L	70 - 130	20	8260C
Tetrahydrofuran(THF)	< 10	25 (126 %R)	26 (130 %R) (3 RPD)	4/11/2023	ug/L	70 - 130	20	8260C
Chloroform	< 1	23 (114 %R)	22 (109 %R) (4 RPD)	4/11/2023	ug/L	70 - 130	20	8260C
1,1,1-Trichloroethane	< 1	23 (113 %R)	21 (107 %R) (5 RPD)	4/11/2023	ug/L	70 - 130	20	8260C
Carbon tetrachloride	< 1	23 (116 %R)	22 (109 %R) (6 RPD)	4/11/2023	ug/L	70 - 130	20	8260C
1,1-Dichloropropene	< 1	24 (118 %R)	23 (114 %R) (4 RPD)	4/11/2023	ug/L	70 - 130	20	8260C
Benzene	< 1	23 (115 %R)	22 (111 %R) (3 RPD)	4/11/2023	ug/L	70 - 130	20	8260C
1,2-Dichloroethane	< 1	23 (117 %R)	23 (115 %R) (2 RPD)	4/11/2023	ug/L	70 - 130	20	8260C
Trichloroethene	< 1	23 (113 %R)	22 (109 %R) (3 RPD)	4/11/2023	ug/L	70 - 130	20	8260C
1,2-Dichloropropane	< 1	23 (117 %R)	23 (114 %R) (2 RPD)	4/11/2023	ug/L	70 - 130	20	8260C
Dibromomethane	< 1	23 (116 %R)	23 (114 %R) (2 RPD)	4/11/2023	ug/L	70 - 130	20	8260C
Bromodichloromethane	< 0.5	23 (115 %R)	22 (112 %R) (3 RPD)	4/11/2023	ug/L	70 - 130	20	8260C
1,4-Dioxane	< 50	< 50 (114 %R)	< 50 (137 %R) (19 RPD)	4/11/2023	ug/L	40 - 160	20	8260C
4-Methyl-2-pentanone(MIBK)	< 10	24 (121 %R)	25 (123 %R) (2 RPD)	4/11/2023	ug/L	40 - 160	20	8260C
cis-1,3-Dichloropropene	< 0.5	23 (115 %R)	22 (112 %R) (2 RPD)	4/11/2023	ug/L	70 - 130	20	8260C
Toluene	< 1	24 (118 %R)	23 (114 %R) (3 RPD)	4/11/2023	ug/L	70 - 130	20	8260C
trans-1,3-Dichloropropene	< 0.5	24 (121 %R)	24 (121 %R) (0 RPD)	4/11/2023	ug/L	70 - 130	20	8260C
1,1,2-Trichloroethane	< 1	23 (115 %R)	23 (117 %R) (2 RPD)	4/11/2023	ug/L	70 - 130	20	8260C
2-Hexanone	< 10	24 (119 %R)	26 (130 %R) (8 RPD)	4/11/2023	ug/L	40 - 160	20	8260C
Tetrachloroethene	< 1	23 (113 %R)	22 (109 %R) (4 RPD)	4/11/2023	ug/L	70 - 130	20	8260C
1,3-Dichloropropane	< 1	23 (114 %R)	23 (115 %R) (1 RPD)	4/11/2023	ug/L	70 - 130	20	8260C
Dibromochloromethane	< 1	23 (113 %R)	23 (114 %R) (1 RPD)	4/11/2023	ug/L	70 - 130	20	8260C
1,2-Dibromoethane(EDB)	< 0.5	24 (121 %R)	22 (111 %R) (8 RPD)	4/11/2023	ug/L	70 - 130	20	8260C
Chlorobenzene	< 1	23 (114 %R)	22 (112 %R) (2 RPD)	4/11/2023	ug/L	70 - 130	20	8260C
1,1,1,2-Tetrachloroethane	< 1	23 (113 %R)	23 (113 %R) (0 RPD)	4/11/2023	ug/L	70 - 130	20	8260C



QC REPORT

EAI ID#: 258393

Client: Sanborn, Head & Associates, Inc. (NH)

Batch ID: 638168-06780/A041123V82601

Client Designation: Granite State LF | Groundwater | 1003.24

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
Ethylbenzene	< 1	25 (123 %R)	24 (119 %R) (3 RPD)	4/11/2023	ug/L	70 - 130	20	8260C
mp-Xylene	< 1	46 (114 %R)	44 (111 %R) (3 RPD)	4/11/2023	ug/L	70 - 130	20	8260C
o-Xylene	< 1	23 (113 %R)	22 (111 %R) (1 RPD)	4/11/2023	ug/L	70 - 130	20	8260C
Styrene	< 1	19 (95 %R)	19 (93 %R) (3 RPD)	4/11/2023	ug/L	70 - 130	20	8260C
Bromoform	< 2	22 (109 %R)	22 (111 %R) (2 RPD)	4/11/2023	ug/L	70 - 130	20	8260C
IsoPropylbenzene	< 1	22 (111 %R)	22 (111 %R) (0 RPD)	4/11/2023	ug/L	70 - 130	20	8260C
Bromobenzene	< 1	23 (113 %R)	21 (107 %R) (5 RPD)	4/11/2023	ug/L	70 - 130	20	8260C
1,1,2,2-Tetrachloroethane	< 1	23 (116 %R)	23 (113 %R) (3 RPD)	4/11/2023	ug/L	70 - 130	20	8260C
1,2,3-Trichloropropane	< 0.5	23 (113 %R)	22 (111 %R) (2 RPD)	4/11/2023	ug/L	70 - 130	20	8260C
n-Propylbenzene	< 1	24 (122 %R)	23 (117 %R) (5 RPD)	4/11/2023	ug/L	70 - 130	20	8260C
2-Chlorotoluene	< 1	24 (118 %R)	22 (112 %R) (6 RPD)	4/11/2023	ug/L	70 - 130	20	8260C
4-Chlorotoluene	< 1	25 (125 %R)	24 (121 %R) (3 RPD)	4/11/2023	ug/L	70 - 130	20	8260C
1,3,5-Trimethylbenzene	< 1	23 (115 %R)	23 (113 %R) (1 RPD)	4/11/2023	ug/L	70 - 130	20	8260C
tert-Butylbenzene	< 1	25 (127 %R)	22 (112 %R) (13 RPD)	4/11/2023	ug/L	70 - 130	20	8260C
1,2,4-Trimethylbenzene	< 1	22 (112 %R)	23 (113 %R) (0 RPD)	4/11/2023	ug/L	70 - 130	20	8260C
sec-Butylbenzene	< 1	25 (125 %R)	25 (123 %R) (2 RPD)	4/11/2023	ug/L	70 - 130	20	8260C
1,3-Dichlorobenzene	< 1	22 (112 %R)	22 (110 %R) (2 RPD)	4/11/2023	ug/L	70 - 130	20	8260C
p-Isopropyltoluene	< 1	22 (110 %R)	22 (110 %R) (0 RPD)	4/11/2023	ug/L	70 - 130	20	8260C
1,4-Dichlorobenzene	< 1	21 (106 %R)	21 (105 %R) (1 RPD)	4/11/2023	ug/L	70 - 130	20	8260C
1,2-Dichlorobenzene	< 1	22 (108 %R)	21 (107 %R) (0 RPD)	4/11/2023	ug/L	70 - 130	20	8260C
n-Butylbenzene	< 1	22 (112 %R)	22 (111 %R) (1 RPD)	4/11/2023	ug/L	70 - 130	20	8260C
1,2-Dibromo-3-chloropropane	< 2	22 (112 %R)	22 (111 %R) (1 RPD)	4/11/2023	ug/L	70 - 130	20	8260C
1,3,5-Trichlorobenzene	< 1	22 (111 %R)	22 (110 %R) (1 RPD)	4/11/2023	ug/L	70 - 130	20	8260C
1,2,4-Trichlorobenzene	< 1	23 (113 %R)	22 (109 %R) (3 RPD)	4/11/2023	ug/L	70 - 130	20	8260C
Hexachlorobutadiene	< 0.5	21 (103 %R)	20 (102 %R) (1 RPD)	4/11/2023	ug/L	70 - 130	20	8260C
Naphthalene	< 2	23 (117 %R)	23 (113 %R) (4 RPD)	4/11/2023	ug/L	70 - 130	20	8260C
1,2,3-Trichlorobenzene	< 0.5	23 (114 %R)	22 (110 %R) (3 RPD)	4/11/2023	ug/L	70 - 130	20	8260C
4-Bromofluorobenzene (surr)	95 %R	99 %R	103 %R	4/11/2023	% Rec	70 - 130	20	8260C
1,2-Dichlorobenzene-d4 (surr)	102 %R	96 %R	97 %R	4/11/2023	% Rec	70 - 130	20	8260C
Toluene-d8 (surr)	99 %R	103 %R	102 %R	4/11/2023	% Rec	70 - 130	20	8260C
1,2-Dichloroethane-d4 (surr)	109 %R	102 %R	102 %R	4/11/2023	% Rec	70 - 130	20	8260C

*! Flagged analyte recoveries deviated from the QA/QC limits. Data that impacts sample results are noted on the sample report.



QC REPORT

EAI ID#: 258393

Client: Sanborn, Head & Associates, Inc. (NH)

Batch ID: 638168-94177/A041223V82601

Client Designation: Granite State LF | Groundwater | 1003.24

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
Dichlorodifluoromethane	< 2	22 (108 %R)	20 (98 %R) (10 RPD)	4/12/2023	ug/L	40 - 160	20	8260C
Chloromethane	< 2	17 (83 %R)	16 (81 %R) (2 RPD)	4/12/2023	ug/L	40 - 160	20	8260C
Vinyl chloride	< 1	24 (121 %R)	22 (111 %R) (9 RPD)	4/12/2023	ug/L	70 - 130	20	8260C
Bromomethane	< 2	22 (111 %R)	18 (92 %R) (18 RPD)	4/12/2023	ug/L	40 - 160	20	8260C
Chloroethane	< 2	23 (117 %R)	21 (107 %R) (8 RPD)	4/12/2023	ug/L	70 - 130	20	8260C
Trichlorofluoromethane	< 2	24 (119 %R)	23 (114 %R) (5 RPD)	4/12/2023	ug/L	70 - 130	20	8260C
Diethyl Ether	< 2	19 (94 %R)	19 (93 %R) (1 RPD)	4/12/2023	ug/L	70 - 130	20	8260C
Acetone	< 10	21 (103 %R)	22 (111 %R) (7 RPD)	4/12/2023	ug/L	40 - 160	20	8260C
1,1-Dichloroethene	< 0.5	22 (108 %R)	21 (103 %R) (5 RPD)	4/12/2023	ug/L	70 - 130	20	8260C
tert-Butyl Alcohol (TBA)	< 30	120 (116 %R)	120 (121 %R) (5 RPD)	4/12/2023	ug/L	70 - 130	20	8260C
Methylene chloride	< 1	21 (107 %R)	21 (104 %R) (2 RPD)	4/12/2023	ug/L	70 - 130	20	8260C
Carbon disulfide	< 2	20 (100 %R)	20 (98 %R) (2 RPD)	4/12/2023	ug/L	70 - 130	20	8260C
Methyl-t-butyl ether(MTBE)	< 1	23 (114 %R)	23 (114 %R) (0 RPD)	4/12/2023	ug/L	70 - 130	20	8260C
Ethyl-t-butyl ether(ETBE)	< 2	23 (116 %R)	23 (115 %R) (1 RPD)	4/12/2023	ug/L	70 - 130	20	8260C
Isopropyl ether(DIPE)	< 2	24 (120 %R)	24 (118 %R) (1 RPD)	4/12/2023	ug/L	70 - 130	20	8260C
tert-amyl methyl ether(TAME)	< 2	23 (113 %R)	23 (113 %R) (0 RPD)	4/12/2023	ug/L	70 - 130	20	8260C
trans-1,2-Dichloroethene	< 1	22 (108 %R)	21 (104 %R) (4 RPD)	4/12/2023	ug/L	70 - 130	20	8260C
1,1-Dichloroethane	< 1	23 (117 %R)	23 (113 %R) (4 RPD)	4/12/2023	ug/L	70 - 130	20	8260C
2,2-Dichloropropane	< 1	25 (126 %R)	24 (118 %R) (7 RPD)	4/12/2023	ug/L	70 - 130	20	8260C
cis-1,2-Dichloroethene	< 1	24 (118 %R)	23 (114 %R) (3 RPD)	4/12/2023	ug/L	70 - 130	20	8260C
2-Butanone(MEK)	< 10	24 (118 %R)	24 (122 %R) (3 RPD)	4/12/2023	ug/L	40 - 160	20	8260C
Bromochloromethane	< 1	21 (105 %R)	21 (107 %R) (2 RPD)	4/12/2023	ug/L	70 - 130	20	8260C
Tetrahydrofuran(THF)	< 10	25 (124 %R)	26 (128 %R) (4 RPD)	4/12/2023	ug/L	70 - 130	20	8260C
Chloroform	< 1	22 (110 %R)	21 (106 %R) (4 RPD)	4/12/2023	ug/L	70 - 130	20	8260C
1,1,1-Trichloroethane	< 1	22 (110 %R)	21 (105 %R) (4 RPD)	4/12/2023	ug/L	70 - 130	20	8260C
Carbon tetrachloride	< 1	22 (110 %R)	21 (105 %R) (5 RPD)	4/12/2023	ug/L	70 - 130	20	8260C
1,1-Dichloropropene	< 1	23 (117 %R)	22 (112 %R) (4 RPD)	4/12/2023	ug/L	70 - 130	20	8260C
Benzene	< 1	22 (111 %R)	22 (108 %R) (3 RPD)	4/12/2023	ug/L	70 - 130	20	8260C
1,2-Dichloroethane	< 1	22 (112 %R)	22 (110 %R) (1 RPD)	4/12/2023	ug/L	70 - 130	20	8260C
Trichloroethene	< 1	22 (111 %R)	21 (106 %R) (4 RPD)	4/12/2023	ug/L	70 - 130	20	8260C
1,2-Dichloropropane	< 1	23 (113 %R)	22 (111 %R) (2 RPD)	4/12/2023	ug/L	70 - 130	20	8260C
Dibromomethane	< 1	22 (110 %R)	21 (107 %R) (3 RPD)	4/12/2023	ug/L	70 - 130	20	8260C
Bromodichloromethane	< 0.5	22 (109 %R)	21 (106 %R) (2 RPD)	4/12/2023	ug/L	70 - 130	20	8260C
1,4-Dioxane	< 50	< 50 (118 %R)	< 50 (122 %R) (4 RPD)	4/12/2023	ug/L	40 - 160	20	8260C
4-Methyl-2-pentanone(MIBK)	< 10	24 (118 %R)	24 (120 %R) (2 RPD)	4/12/2023	ug/L	40 - 160	20	8260C
cis-1,3-Dichloropropene	< 0.5	22 (112 %R)	22 (109 %R) (3 RPD)	4/12/2023	ug/L	70 - 130	20	8260C
Toluene	< 1	23 (116 %R)	23 (113 %R) (3 RPD)	4/12/2023	ug/L	70 - 130	20	8260C
trans-1,3-Dichloropropene	< 0.5	24 (120 %R)	24 (118 %R) (1 RPD)	4/12/2023	ug/L	70 - 130	20	8260C
1,1,2-Trichloroethane	< 1	22 (112 %R)	22 (112 %R) (1 RPD)	4/12/2023	ug/L	70 - 130	20	8260C
2-Hexanone	< 10	24 (119 %R)	25 (124 %R) (4 RPD)	4/12/2023	ug/L	40 - 160	20	8260C
Tetrachloroethene	< 1	22 (112 %R)	22 (108 %R) (3 RPD)	4/12/2023	ug/L	70 - 130	20	8260C
1,3-Dichloropropane	< 1	22 (112 %R)	22 (112 %R) (0 RPD)	4/12/2023	ug/L	70 - 130	20	8260C
Dibromochloromethane	< 1	21 (107 %R)	22 (108 %R) (0 RPD)	4/12/2023	ug/L	70 - 130	20	8260C
1,2-Dibromoethane(EDB)	< 0.5	24 (119 %R)	23 (117 %R) (1 RPD)	4/12/2023	ug/L	70 - 130	20	8260C
Chlorobenzene	< 1	23 (113 %R)	22 (110 %R) (2 RPD)	4/12/2023	ug/L	70 - 130	20	8260C
1,1,1,2-Tetrachloroethane	< 1	22 (109 %R)	22 (108 %R) (1 RPD)	4/12/2023	ug/L	70 - 130	20	8260C



QC REPORT

EAI ID#: 258393

Client: Sanborn, Head & Associates, Inc. (NH)

Batch ID: 638168-94177/A041223V82601

Client Designation: Granite State LF | Groundwater | 1003.24

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
Ethylbenzene	< 1	24 (121 %R)	23 (117 %R) (3 RPD)	4/12/2023	ug/L	70 - 130	20	8260C
mp-Xylene	< 1	45 (112 %R)	43 (108 %R) (4 RPD)	4/12/2023	ug/L	70 - 130	20	8260C
o-Xylene	< 1	22 (112 %R)	22 (109 %R) (2 RPD)	4/12/2023	ug/L	70 - 130	20	8260C
Styrene	< 1	18 (90 %R)	18 (89 %R) (1 RPD)	4/12/2023	ug/L	70 - 130	20	8260C
Bromoform	< 2	20 (101 %R)	20 (102 %R) (2 RPD)	4/12/2023	ug/L	70 - 130	20	8260C
IsoPropylbenzene	< 1	22 (111 %R)	22 (108 %R) (3 RPD)	4/12/2023	ug/L	70 - 130	20	8260C
Bromobenzene	< 1	23 (113 %R)	22 (112 %R) (1 RPD)	4/12/2023	ug/L	70 - 130	20	8260C
1,1,2,2-Tetrachloroethane	< 1	23 (115 %R)	23 (116 %R) (1 RPD)	4/12/2023	ug/L	70 - 130	20	8260C
1,2,3-Trichloropropane	< 0.5	23 (113 %R)	23 (114 %R) (2 RPD)	4/12/2023	ug/L	70 - 130	20	8260C
n-Propylbenzene	< 1	25 (124 %R)	24 (122 %R) (2 RPD)	4/12/2023	ug/L	70 - 130	20	8260C
2-Chlorotoluene	< 1	25 (124 %R)	24 (120 %R) (3 RPD)	4/12/2023	ug/L	70 - 130	20	8260C
4-Chlorotoluene	< 1	25 (123 %R)	24 (122 %R) (1 RPD)	4/12/2023	ug/L	70 - 130	20	8260C
1,3,5-Trimethylbenzene	< 1	24 (118 %R)	23 (115 %R) (2 RPD)	4/12/2023	ug/L	70 - 130	20	8260C
tert-Butylbenzene	< 1	* 26 (131 %R)	26 (129 %R) (1 RPD)	4/12/2023	ug/L	70 - 130	20	8260C
1,2,4-Trimethylbenzene	< 1	23 (115 %R)	23 (113 %R) (2 RPD)	4/12/2023	ug/L	70 - 130	20	8260C
sec-Butylbenzene	< 1	26 (128 %R)	25 (126 %R) (1 RPD)	4/12/2023	ug/L	70 - 130	20	8260C
1,3-Dichlorobenzene	< 1	23 (113 %R)	23 (113 %R) (0 RPD)	4/12/2023	ug/L	70 - 130	20	8260C
p-Isopropyltoluene	< 1	23 (113 %R)	22 (112 %R) (1 RPD)	4/12/2023	ug/L	70 - 130	20	8260C
1,4-Dichlorobenzene	< 1	22 (108 %R)	21 (107 %R) (1 RPD)	4/12/2023	ug/L	70 - 130	20	8260C
1,2-Dichlorobenzene	< 1	22 (109 %R)	22 (109 %R) (0 RPD)	4/12/2023	ug/L	70 - 130	20	8260C
n-Butylbenzene	< 1	23 (115 %R)	23 (113 %R) (2 RPD)	4/12/2023	ug/L	70 - 130	20	8260C
1,2-Dibromo-3-chloropropane	< 2	22 (109 %R)	22 (110 %R) (1 RPD)	4/12/2023	ug/L	70 - 130	20	8260C
1,3,5-Trichlorobenzene	< 1	23 (113 %R)	22 (111 %R) (2 RPD)	4/12/2023	ug/L	70 - 130	20	8260C
1,2,4-Trichlorobenzene	< 1	23 (117 %R)	22 (112 %R) (4 RPD)	4/12/2023	ug/L	70 - 130	20	8260C
Hexachlorobutadiene	< 0.5	21 (104 %R)	20 (102 %R) (1 RPD)	4/12/2023	ug/L	70 - 130	20	8260C
Naphthalene	< 2	25 (123 %R)	23 (117 %R) (5 RPD)	4/12/2023	ug/L	70 - 130	20	8260C
1,2,3-Trichlorobenzene	< 0.5	23 (117 %R)	23 (113 %R) (4 RPD)	4/12/2023	ug/L	70 - 130	20	8260C
4-Bromofluorobenzene (surr)	96 %R	98 %R	98 %R	4/12/2023	% Rec	70 - 130	20	8260C
1,2-Dichlorobenzene-d4 (surr)	100 %R	95 %R	95 %R	4/12/2023	% Rec	70 - 130	20	8260C
Toluene-d8 (surr)	99 %R	103 %R	104 %R	4/12/2023	% Rec	70 - 130	20	8260C
1,2-Dichloroethane-d4 (surr)	106 %R	100 %R	100 %R	4/12/2023	% Rec	70 - 130	20	8260C

*! Flagged analyte recoveries deviated from the QA/QC limits. Data that impacts sample results are noted on the sample report.



LABORATORY REPORT

EAI ID#: **258393**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Granite State LF | Groundwater | 1003.24**

Sample ID:	MW-2_20230410	MW-15_20230410	MW-23_20230410	MW-42_20230410
Lab Sample ID:	258393.01	258393.02	258393.03	258393.04
Matrix:	aqueous	aqueous	aqueous	aqueous
Date Sampled:	4/10/23	4/10/23	4/10/23	4/10/23
Date Received:	4/11/23	4/11/23	4/11/23	4/11/23
Units:	ug/L	ug/L	ug/L	ug/L
Date of Analysis:	4/12/23	4/12/23	4/12/23	4/12/23
Analyst:	MKB	MKB	MKB	MKB
Method:	8260B SIM	8260B SIM	8260B SIM	8260B SIM
Dilution Factor:	1	1	1	1
1,4-Dioxane	< 0.25	< 0.25	< 0.25	< 0.25
4-Bromofluorobenzene (surr)	96 %R	96 %R	96 %R	95 %R
Toluene-d8 (surr)	102 %R	102 %R	102 %R	102 %R



LABORATORY REPORT

EAI ID#: **258393**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Granite State LF | Groundwater | 1003.24**

Sample ID: MW-42R_20230410 MW-11_20230410 TB-LL-GW-01_20230410

Lab Sample ID:	258393.05	258393.06	258393.08
Matrix:	aqueous	aqueous	aqueous
Date Sampled:	4/10/23	4/10/23	4/10/23
Date Received:	4/11/23	4/11/23	4/11/23
Units:	ug/L	ug/L	ug/L
Date of Analysis:	4/12/23	4/12/23	4/12/23
Analyst:	MKB	MKB	MKB
Method:	8260B SIM	8260B SIM	8260B SIM
Dilution Factor:	1	1	1
1,4-Dioxane	< 0.25	< 0.25	< 0.25
4-Bromofluorobenzene (surr)	96 %R	96 %R	97 %R
Toluene-d8 (surr)	102 %R	102 %R	102 %R



QC REPORT

EAI ID#: 258393

Client: Sanborn, Head & Associates, Inc. (NH)

Batch ID: 638168-27382/A041123DIOX2

Client Designation: Granite State LF | Groundwater | 1003.24

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
1,4-Dioxane	< 0.2	4.5 (89 %R)	4.1 (82 %R) (8 RPD)	4/12/2023	ug/L	70 - 130	20	8260B
4-Bromofluorobenzene (surr)	97 %R	95 %R	97 %R	4/12/2023	% Rec	70 - 130	50	8260B
Toluene-d8 (surr)	102 %R	101 %R	102 %R	4/12/2023	% Rec	70 - 130	50	8260B

*! Flagged analyte recoveries deviated from the QA/QC limits. Data that impacts sample results are noted on the sample report.



LABORATORY REPORT

EAI ID#: 258393

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Granite State LF | Groundwater | 1003.24**

Sample ID:	MW-2_20230410	MW-15_20230410	MW-23_20230410	MW-42_20230410
Lab Sample ID:	258393.01	258393.02	258393.03	258393.04
Matrix:	aqueous	aqueous	aqueous	aqueous
Date Sampled:	4/10/23	4/10/23	4/10/23	4/10/23
Date Received:	4/11/23	4/11/23	4/11/23	4/11/23
Units:	ug/L	ug/L	ug/L	ug/L
Date of Extraction/Prep:	4/12/23	4/12/23	4/12/23	4/12/23
Date of Analysis:	4/12/23	4/12/23	4/12/23	4/12/23
Analyst:	WOD	WOD	WOD	WOD
Method:	8011/504	8011/504	8011/504	8011/504
Dilution Factor:	1	1	1	1
1,2-Dibromoethane(EDB)	< 0.02	< 0.02	< 0.02	< 0.02
Dibromochloropropane (DBCP)	< 0.02	< 0.02	< 0.02	< 0.02
1,1,1,2-Tetrachloroethane (surr)	90 %R	90 %R	90 %R	87 %R



LABORATORY REPORT

EAI ID#: **258393**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Granite State LF | Groundwater | 1003.24**

Sample ID:	MW-42R_20230410	MW-11_20230410
Lab Sample ID:	258393.05	258393.06
Matrix:	aqueous	aqueous
Date Sampled:	4/10/23	4/10/23
Date Received:	4/11/23	4/11/23
Units:	ug/L	ug/L
Date of Extraction/Prep:	4/12/23	4/12/23
Date of Analysis:	4/12/23	4/12/23
Analyst:	WOD	WOD
Method:	8011/504	8011/504
Dilution Factor:	1	1
1,2-Dibromoethane(EDB)	< 0.02	< 0.02
Dibromochloropropane (DBCP)	< 0.02	< 0.02
1,1,1,2-Tetrachloroethane (surr)	86 %R	93 %R



QC REPORT

EAI ID#: **258393**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Batch ID: 638168-88430/A041223E5041

Client Designation: **Granite State LF | Groundwater | 1003.24**

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
1,2-Dibromoethane(EDB)	< 0.02	0.097 (97 %R)	0.094 (94 %R) (3 RPD)	4/12/2023	ug/L	70 - 130	20	8011/504
Dibromochloropropane (DBCP)	< 0.02	0.095 (95 %R)	0.093 (93 %R) (1 RPD)	4/12/2023	ug/L	70 - 130	20	8011/504
1,1,1,2-Tetrachloroethane (surr)	86 %R	89 %R	85 %R	4/12/2023	% Rec	65 - 135	20	8011/504

*! Flagged analyte recoveries deviated from the QA/QC limits. Data that impacts sample results are noted on the sample report.



LABORATORY REPORT

EAI ID#: 258393

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Granite State LF | Groundwater | 1003.24**

Sample ID:	MW-2_20230410	MW -15_20230410	MW -23_20230410	MW -42_20230410		Analysis			
Lab Sample ID:	258393.01	258393.02	258393.03	258393.04	Units	Date	Time	Method	Analyst
Matrix:	aqueous	aqueous	aqueous	aqueous					
Date Sampled:	4/10/23	4/10/23	4/10/23	4/10/23					
Date Received:	4/11/23	4/11/23	4/11/23	4/11/23					
Sulfate	3.6	4	1.6	4.3	mg/L	04/13/23	18:28	300.0	ALM
Chloride	< 1	< 1	< 1	< 1	mg/L	04/11/23	15:16	4500CIE-11	ALM
Nitrate-N	< 0.5	< 0.5	< 0.5	< 0.5	mg/L	04/11/23	15:16	353.2	ALM
TKN	< 0.5	< 0.5	< 0.5	< 0.5	mg/L	04/13/23	15:47	4500N _{org} C/NH3D	PEN
COD	< 10	< 10	< 10	< 10	mg/L	04/11/23	13:50	H8000	JCS
Dissolved Organic Carbon	1.2	1.6	2.2	1.5	mg/L	04/13/23	10:55	5310C-11	LO

Sample ID:	MW-42R_20230410	MW -11_20230410				Analysis			
Lab Sample ID:	258393.05	258393.06			Units	Date	Time	Method	Analyst
Matrix:	aqueous	aqueous							
Date Sampled:	4/10/23	4/10/23							
Date Received:	4/11/23	4/11/23							
Sulfate	9.2	1.9			mg/L	04/13/23	20:38	300.0	ALM
Chloride	< 1	< 1			mg/L	04/11/23	15:26	4500CIE-11	ALM
Nitrate-N	< 0.5	< 0.5			mg/L	04/11/23	15:26	353.2	ALM
TKN	< 0.5	< 0.5			mg/L	04/13/23	15:57	4500N _{org} C/NH3D	PEN
COD	< 10	< 10			mg/L	04/11/23	13:50	H8000	JCS
Dissolved Organic Carbon	1.5	2.2			mg/L	04/13/23	11:49	5310C-11	LO



QC REPORT

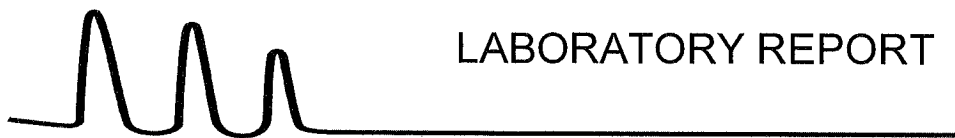
EAI ID#: 258393

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Granite State LF | Groundwater | 1003.24**

Parameter Name	Blank	LCS	LCSD	Units	Date of Analysis	Limits	RPD	Method
Sulfate	< 1	21 (103 %R)	21 (103 %R) (1 RPD)	mg/L	4/14/23	90 - 110	20	300.0
Chloride	< 1	27 (109 %R)	27 (108 %R) (1 RPD)	mg/L	4/11/23	90 - 110	20	4500CIE-11
Nitrate-N	< 0.5	5.0 (100 %R)	4.7 (94 %R) (6 RPD)	mg/L	4/11/23	90 - 110	20	353.2
TKN	< 0.5	11 (106 %R)	11 (109 %R) (2 RPD)	mg/L	4/13/23	90 - 111	20	4500N _{org} C/NH3D-11
COD	< 10	110 (110 %R)	110 (112 %R) (2 RPD)	mg/L	4/11/23	85 - 115	20	H8000
Dissolved Organic Carbon	< 0.5	5.1 (102 %R)	5.2 (103 %R) (1 RPD)	mg/L	4/13/23	90 - 110	20	5310C-11

*// Flagged analyte recoveries deviated from the QA/QC limits. Unless noted, flagged data does not impact the sample data.



LABORATORY REPORT

EAI ID#: **258393**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Granite State LF | Groundwater | 1003.24**

Sample ID: MW-2_20230410

Lab Sample ID: 258393.01

Matrix: aqueous

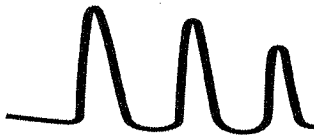
Date Sampled: 4/10/23

Date Received: 4/11/23

Iron < 0.05

Manganese < 0.005

Analytical Matrix	Units	Date of Analysis	Method	Analyst
AqDis	mg/L	4/11/23	200.8	DS
AqDis	mg/L	4/11/23	200.8	DS



LABORATORY REPORT

EAI ID#: 258393

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Granite State LF | Groundwater | 1003.24**

Sample ID:	MW-15_20230410	MW -23_20230410	MW -42_20230410	MW -11_20230410					
Lab Sample ID:	258393.02	258393.03	258393.04	258393.06					
Matrix:	aqueous	aqueous	aqueous	aqueous					
Date Sampled:	4/10/23	4/10/23	4/10/23	4/10/23	Analytical Matrix	Units	Date of Analysis	Method	Analyst
Date Received:	4/11/23	4/11/23	4/11/23	4/11/23					
Aluminum	< 0.05	0.10	0.11	0.090	AqDis	mg/L	4/11/23	200.8	DS
Antimony	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	4/11/23	200.8	DS
Arsenic	< 0.0005	< 0.0005	< 0.0005	< 0.0005	AqDis	mg/L	4/11/23	200.8	DS
Barium	0.0074	0.0056	0.015	0.021	AqDis	mg/L	4/11/23	200.8	DS
Beryllium	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	4/11/23	200.8	DS
Calcium	3.4	1.8	2.1	2.6	AqDis	mg/L	4/11/23	200.8	DS
Cadmium	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	4/11/23	200.8	DS
Chromium	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	4/11/23	200.8	DS
Copper	< 0.001	< 0.001	< 0.001	0.0022	AqDis	mg/L	4/11/23	200.8	DS
Iron	< 0.05	< 0.05	< 0.05	< 0.05	AqDis	mg/L	4/11/23	200.8	DS
Lead	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	4/11/23	200.8	DS
Manganese	< 0.005	< 0.005	0.010	< 0.005	AqDis	mg/L	4/11/23	200.8	DS
Nickel	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	4/11/23	200.8	DS
Selenium	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	4/11/23	200.8	DS
Silver	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	4/11/23	200.8	DS
Thallium	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	4/11/23	200.8	DS
Zinc	0.010	0.0072	0.0061	0.0064	AqDis	mg/L	4/11/23	200.8	DS



LABORATORY REPORT

EAI ID#: **258393**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Granite State LF | Groundwater | 1003.24**

Sample ID: MW-42R_20230410

Lab Sample ID: 258393.05

Matrix: aqueous

Date Sampled: 4/10/23

Date Received: 4/11/23

		Analytical Matrix	Units	Date of Analysis	Method	Analyst
Aluminum	< 0.05	AqTot	mg/L	4/13/23	200.8	DS
Antimony	< 0.001	AqTot	mg/L	4/13/23	200.8	DS
Arsenic	0.0020	AqTot	mg/L	4/13/23	200.8	DS
Barium	0.031	AqTot	mg/L	4/13/23	200.8	DS
Beryllium	< 0.001	AqTot	mg/L	4/13/23	200.8	DS
Calcium	24	AqTot	mg/L	4/13/23	200.8	DS
Cadmium	< 0.001	AqTot	mg/L	4/13/23	200.8	DS
Chromium	< 0.001	AqTot	mg/L	4/13/23	200.8	DS
Copper	< 0.001	AqTot	mg/L	4/13/23	200.8	DS
Iron	< 0.05	AqTot	mg/L	4/13/23	200.8	DS
Lead	< 0.001	AqTot	mg/L	4/13/23	200.8	DS
Manganese	0.16	AqTot	mg/L	4/13/23	200.8	DS
Nickel	0.0013	AqTot	mg/L	4/13/23	200.8	DS
Selenium	< 0.001	AqTot	mg/L	4/13/23	200.8	DS
Silver	< 0.001	AqTot	mg/L	4/13/23	200.8	DS
Thallium	< 0.001	AqTot	mg/L	4/13/23	200.8	DS
Zinc	< 0.005	AqTot	mg/L	4/13/23	200.8	DS



QC REPORT

EAI ID#: 258393

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Granite State LF | Groundwater | 1003.24**

Parameter Name	Blank	LCS	LCSD	Units	Date of Analysis	Limits	RPD	Method
Aluminum (Aqdis)	< 0.05	10 (102 %R)		NA	mg/L 4/11/23	85 - 115	20	200.8
Aluminum (Aqtot)	< 0.05	11 (106 %R)		NA	mg/L 4/13/23	85 - 115	20	200.8
Antimony (Aqdis)	< 0.001	0.22 (108 %R)		NA	mg/L 4/11/23	85 - 115	20	200.8
Antimony (Aqtot)	< 0.001	0.44 (111 %R)		NA	mg/L 4/13/23	85 - 115	20	200.8
Arsenic (Aqdis)	< 0.0005	0.21 (104 %R)		NA	mg/L 4/11/23	85 - 115	20	200.8
Arsenic (Aqtot)	< 0.0005	0.42 (104 %R)		NA	mg/L 4/13/23	85 - 115	20	200.8
Barium (Aqdis)	< 0.001	0.21 (104 %R)		NA	mg/L 4/11/23	85 - 115	20	200.8
Barium (Aqtot)	< 0.001	0.41 (103 %R)		NA	mg/L 4/13/23	85 - 115	20	200.8
Beryllium (Aqdis)	< 0.001	0.25 (123 %R)		NA	mg/L 4/11/23	85 - 115	20	200.8
Beryllium (Aqtot)	< 0.001	0.42 (106 %R)		NA	mg/L 4/13/23	85 - 115	20	200.8
Calcium (Aqdis)	< 0.05	9.8 (98 %R)		NA	mg/L 4/11/23	85 - 115	20	200.8
Calcium (Aqtot)	< 0.05	10 (100 %R)		NA	mg/L 4/13/23	85 - 115	20	200.8
Cadmium (Aqdis)	< 0.001	0.20 (102 %R)		NA	mg/L 4/11/23	85 - 115	20	200.8
Cadmium (Aqtot)	< 0.001	0.42 (105 %R)		NA	mg/L 4/13/23	85 - 115	20	200.8
Chromium (Aqdis)	< 0.001	0.21 (106 %R)		NA	mg/L 4/11/23	85 - 115	20	200.8
Chromium (Aqtot)	< 0.001	0.41 (101 %R)		NA	mg/L 4/13/23	85 - 115	20	200.8
Copper (Aqdis)	< 0.001	0.20 (101 %R)		NA	mg/L 4/11/23	85 - 115	20	200.8
Copper (Aqtot)	< 0.001	0.40 (99 %R)		NA	mg/L 4/13/23	85 - 115	20	200.8
Iron (Aqdis)	< 0.05	10 (105 %R)		NA	mg/L 4/11/23	85 - 115	20	200.8
Iron (Aqtot)	< 0.05	10 (104 %R)		NA	mg/L 4/13/23	85 - 115	20	200.8
Lead (Aqdis)	< 0.001	0.20 (102 %R)		NA	mg/L 4/11/23	85 - 115	20	200.8
Lead (Aqtot)	< 0.001	0.41 (102 %R)		NA	mg/L 4/13/23	85 - 115	20	200.8
Manganese (Aqdis)	< 0.005	0.21 (105 %R)		NA	mg/L 4/11/23	85 - 115	20	200.8
Manganese (Aqtot)	< 0.005	0.40 (101 %R)		NA	mg/L 4/13/23	85 - 115	20	200.8
Nickel (Aqdis)	< 0.001	0.21 (103 %R)		NA	mg/L 4/11/23	85 - 115	20	200.8
Nickel (Aqtot)	< 0.001	0.41 (102 %R)		NA	mg/L 4/13/23	85 - 115	20	200.8
Selenium (Aqdis)	< 0.001	0.21 (107 %R)		NA	mg/L 4/11/23	85 - 115	20	200.8
Selenium (Aqtot)	< 0.001	0.42 (105 %R)		NA	mg/L 4/13/23	85 - 115	20	200.8
Silver (Aqdis)	< 0.001	0.0098 (98 %R)		NA	mg/L 4/11/23	85 - 115	20	200.8
Silver (Aqtot)	< 0.001	0.021 (104 %R)		NA	mg/L 4/13/23	85 - 115	20	200.8
Thallium (Aqdis)	< 0.001	0.20 (100 %R)		NA	mg/L 4/11/23	85 - 115	20	200.8
Thallium (Aqtot)	< 0.001	0.42 (104 %R)		NA	mg/L 4/13/23	85 - 115	20	200.8
Zinc (Aqdis)	< 0.005	0.22 (108 %R)		NA	mg/L 4/11/23	85 - 115	20	200.8
Zinc (Aqtot)	< 0.005	0.41 (103 %R)		NA	mg/L 4/13/23	85 - 115	20	200.8

*! Flagged analyte recoveries deviated from the QA/QC limits. Unless noted, flagged data does not impact the sample data.

Lilly Corenthal
Sanborn, Head & Associates, Inc. (NH)
20 Foundry Street
Concord, NH 03301



Laboratory Report for:

Eastern Analytical, Inc. ID: 258494
Client Identification: Granite State LF | Groundwater | 1003.24
Date Received: 4/12/2023

Enclosed are the analytical results per the Chain of Custody for sample(s) in the referenced project. All analyses were performed in accordance with our QA/QC Program, NELAP and other applicable state requirements. All quality control criteria was within acceptance criteria unless noted on the report pages. Results are for the exclusive use of the client named on this report and will not be released to a third party without consent.

The following information is contained within this report: Sample Conditions summary, Analytical Results/Data, Quality Control data (if requested) and copies of the Chain of Custody. This report may not be reproduced except in full, without the written approval of the laboratory.

The following standard abbreviations and conventions apply to all EAI reports:

- < : "less than" followed by the reporting limit
- > : "greater than" followed by the reporting limit
- %R : % Recovery

Certifications:

Eastern Analytical, Inc. maintains certification in the following states: Connecticut (PH-0492), Maine (NH005), Massachusetts (M-NH005), New Hampshire/NELAP (1012), Rhode Island (269), Vermont (VT1012), New York (12072) and West Virginia (9910C). Please refer to our website at www.easternanalytical.com for a copy of our certificates and accredited parameters.

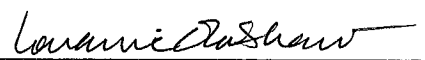
References:

- EPA 600/4-79-020, 1983
- Standard Methods for Examination of Water and Wastewater, 20th, 21st, 22nd & 23rd edition or noted revision year.
- Test Methods for Evaluating Solid Waste SW 846 3rd Edition including updates IVA and IVB
- Hach Water Analysis Handbook, 4th edition, 1992
- ASTM International

If you have any questions regarding the results contained within, please feel free to contact customer service. Unless otherwise requested, we will dispose of the sample(s) 6 weeks from the sample receipt date.

We appreciate this opportunity to be of service and look forward to your continued patronage.

Sincerely,


Lorraine Olashaw, Lab Director

4.20.23
Date



SAMPLE CONDITIONS PAGE

EAI ID#: 258494

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Granite State LF | Groundwater | 1003.24**

Temperature upon receipt (°C): 3.1

Received on ice or cold packs (Yes/No): Y

Acceptable temperature range (°C): 0-6

Lab ID	Sample ID	Date Received	Date/Time Sampled	Sample Matrix	% Dry Weight	Exceptions/Comments (other than thermal preservation)
258494.01	MW-3_20230411	4/12/23	4/11/23 14:20	aqueous		Adheres to Sample Acceptance Policy
258494.02	MW-19R_20230411	4/12/23	4/11/23 10:12	aqueous		Adheres to Sample Acceptance Policy
258494.03	MW-20_20230411	4/12/23	4/11/23 13:00	aqueous		Adheres to Sample Acceptance Policy
258494.04	MW-20R_20230411	4/12/23	4/11/23 11:35	aqueous		Adheres to Sample Acceptance Policy
258494.05	MW-25_20230411	4/12/23	4/11/23 09:15	aqueous		Adheres to Sample Acceptance Policy
258494.06	MW-28R_20230411	4/12/23	4/11/23 12:00	aqueous		Adheres to Sample Acceptance Policy
258494.07	MW-24_20230411	4/12/23	4/11/23 13:13	aqueous		Adheres to Sample Acceptance Policy
258494.08	MW-5_20230411	4/12/23	4/11/23 12:10	aqueous		Adheres to Sample Acceptance Policy
258494.09	MW-12_20230411	4/12/23	4/11/23 09:05	aqueous		Adheres to Sample Acceptance Policy
258494.1	MW-13_20230411	4/12/23	4/11/23 10:20	aqueous		Adheres to Sample Acceptance Policy
258494.11	MW-40_20230411	4/12/23	4/11/23 11:02	aqueous		Adheres to Sample Acceptance Policy
258494.12	MW-40R_20230411	4/12/23	4/11/23 11:53	aqueous		Adheres to Sample Acceptance Policy
258494.13	MW-41_20230411	4/12/23	4/11/23 09:47	aqueous		Adheres to Sample Acceptance Policy
258494.14	MW-41R_20230411	4/12/23	4/11/23 09:52	aqueous		Adheres to Sample Acceptance Policy
258494.15	MW-43_20230411	4/12/23	4/11/23 13:05	aqueous		Adheres to Sample Acceptance Policy
258494.16	MW-43R_20230411	4/12/23	4/11/23 14:35	aqueous		Adheres to Sample Acceptance Policy
258494.17	TB-GW-02_20230411	4/12/23	4/11/23 15:45	aqueous		Adheres to Sample Acceptance Policy
258494.18	TB-LL-GW-02_20230411	4/12/23	4/11/23 15:45	aqueous		Adheres to Sample Acceptance Policy
258494.19	GWDUP-1_20230411	4/12/23	4/11/23 10:20	aqueous		Adheres to Sample Acceptance Policy

All results contained in this report relate only to the above listed samples.

Unless otherwise noted:

- Hold times, preservation, container types, and sample conditions adhered to EPA Protocol.
- Solid samples are reported on a dry weight basis, unless otherwise noted. pH/Corrosivity, Flashpoint, Ignitability, Paint Filter, Conductivity and Specific Gravity are always reported on an "as received" basis.
- Analysis of pH, Total Residual Chlorine, Dissolved Oxygen and Sulfite were performed at the laboratory outside of the recommended 15 minute hold time.
- Samples collected by Eastern Analytical, Inc. (EAI) were collected in accordance with approved EPA procedures.



LABORATORY REPORT

EAI ID#: **258494**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Granite State LF | Groundwater | 1003.24**

Sample ID:	MW-3_20230411	MW-19R_20230411	MW-20_20230411	MW-20R_20230411
Lab Sample ID:	258494.01	258494.02	258494.03	258494.04
Matrix:	aqueous	aqueous	aqueous	aqueous
Date Sampled:	4/11/23	4/11/23	4/11/23	4/11/23
Date Received:	4/12/23	4/12/23	4/12/23	4/12/23
Units:	ug/L	ug/L	ug/L	ug/L
Date of Analysis:	4/12/23	4/12/23	4/12/23	4/12/23
Analyst:	JAK	JAK	JAK	JAK
Method:	8260C	8260C	8260C	8260C
Dilution Factor:	1	1	1	1
Dichlorodifluoromethane	< 2	< 2	< 2	< 2
Chloromethane	< 2	< 2	< 2	< 2
Vinyl chloride	< 1	< 1	< 1	< 1
Bromomethane	< 2	< 2	< 2	< 2
Chloroethane	< 2	< 2	< 2	< 2
Trichlorofluoromethane	< 2	< 2	< 2	< 2
Diethyl Ether	< 2	< 2	< 2	< 2
Acetone	< 10	< 10	< 10	< 10
1,1-Dichloroethene	< 0.5	< 0.5	< 0.5	< 0.5
tert-Butyl Alcohol (TBA)	< 30	< 30	< 30	< 30
Methylene chloride	< 1	< 1	< 1	< 1
Carbon disulfide	< 2	< 2	< 2	< 2
Methyl-t-butyl ether(MTBE)	< 1	< 1	< 1	< 1
Ethyl-t-butyl ether(ETBE)	< 2	< 2	< 2	< 2
Isopropyl ether(DIPE)	< 2	< 2	< 2	< 2
tert-amyl methyl ether(TAME)	< 2	< 2	< 2	< 2
trans-1,2-Dichloroethene	< 1	< 1	< 1	< 1
1,1-Dichloroethane	< 1	< 1	< 1	< 1
2,2-Dichloropropane	< 1	< 1	< 1	< 1
cis-1,2-Dichloroethene	< 1	< 1	< 1	< 1
2-Butanone(MEK)	< 10	< 10	< 10	< 10
Bromochloromethane	< 1	< 1	< 1	< 1
Tetrahydrofuran(THF)	< 10	< 10	< 10	< 10
Chloroform	< 1	< 1	< 1	< 1
1,1,1-Trichloroethane	< 1	< 1	< 1	< 1
Carbon tetrachloride	< 1	< 1	< 1	< 1
1,1-Dichloropropene	< 1	< 1	< 1	< 1
Benzene	< 1	< 1	< 1	< 1
1,2-Dichloroethane	< 1	< 1	< 1	< 1
Trichloroethene	< 1	< 1	< 1	< 1
1,2-Dichloropropane	< 1	< 1	< 1	< 1
Dibromomethane	< 1	< 1	< 1	< 1
Bromodichloromethane	< 0.5	< 0.5	< 0.5	< 0.5
1,4-Dioxane	< 50	< 50	< 50	< 50
4-Methyl-2-pentanone(MIBK)	< 10	< 10	< 10	< 10
cis-1,3-Dichloropropene	< 0.5	< 0.5	< 0.5	< 0.5
Toluene	< 1	< 1	< 1	< 1
trans-1,3-Dichloropropene	< 0.5	< 0.5	< 0.5	< 0.5
1,1,2-Trichloroethane	< 1	< 1	< 1	< 1
2-Hexanone	< 10	< 10	< 10	< 10
Tetrachloroethene	< 1	< 1	< 1	< 1
1,3-Dichloropropane	< 1	< 1	< 1	< 1
Dibromochloromethane	< 1	< 1	< 1	< 1
1,2-Dibromoethane(EDB)	< 0.5	< 0.5	< 0.5	< 0.5
Chlorobenzene	< 1	< 1	< 1	< 1
1,1,1,2-Tetrachloroethane	< 1	< 1	< 1	< 1



LABORATORY REPORT

EAI ID#: 258494

Client: Sanborn, Head & Associates, Inc. (NH)

Client Designation: Granite State LF | Groundwater | 1003.24

Sample ID:	MW-3_20230411	MW-19R_20230411	MW-20_20230411	MW-20R_20230411
Lab Sample ID:	258494.01	258494.02	258494.03	258494.04
Matrix:	aqueous	aqueous	aqueous	aqueous
Date Sampled:	4/11/23	4/11/23	4/11/23	4/11/23
Date Received:	4/12/23	4/12/23	4/12/23	4/12/23
Units:	ug/L	ug/L	ug/L	ug/L
Date of Analysis:	4/12/23	4/12/23	4/12/23	4/12/23
Analyst:	JAK	JAK	JAK	JAK
Method:	8260C	8260C	8260C	8260C
Dilution Factor:	1	1	1	1
Ethylbenzene	< 1	< 1	< 1	< 1
mp-Xylene	< 1	< 1	< 1	< 1
o-Xylene	< 1	< 1	< 1	< 1
Styrene	< 1	< 1	< 1	< 1
Bromoform	< 2	< 2	< 2	< 2
IsoPropylbenzene	< 1	< 1	< 1	< 1
Bromobenzene	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	< 1	< 1	< 1	< 1
1,2,3-Trichloropropane	< 0.5	< 0.5	< 0.5	< 0.5
n-Propylbenzene	< 1	< 1	< 1	< 1
2-Chlorotoluene	< 1	< 1	< 1	< 1
4-Chlorotoluene	< 1	< 1	< 1	< 1
1,3,5-Trimethylbenzene	< 1	< 1	< 1	< 1
tert-Butylbenzene	< 1	< 1	< 1	< 1
1,2,4-Trimethylbenzene	< 1	< 1	< 1	< 1
sec-Butylbenzene	< 1	< 1	< 1	< 1
1,3-Dichlorobenzene	< 1	< 1	< 1	< 1
p-Isopropyltoluene	< 1	< 1	< 1	< 1
1,4-Dichlorobenzene	< 1	< 1	< 1	< 1
1,2-Dichlorobenzene	< 1	< 1	< 1	< 1
n-Butylbenzene	< 1	< 1	< 1	< 1
1,2-Dibromo-3-chloropropane	< 2	< 2	< 2	< 2
1,3,5-Trichlorobenzene	< 1	< 1	< 1	< 1
1,2,4-Trichlorobenzene	< 1	< 1	< 1	< 1
Hexachlorobutadiene	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	< 2	< 2	< 2	< 2
1,2,3-Trichlorobenzene	< 0.5	< 0.5	< 0.5	< 0.5
4-Bromofluorobenzene (surr)	92 %R	93 %R	92 %R	93 %R
1,2-Dichlorobenzene-d4 (surr)	102 %R	102 %R	102 %R	103 %R
Toluene-d8 (surr)	98 %R	99 %R	99 %R	97 %R
1,2-Dichloroethane-d4 (surr)	110 %R	110 %R	110 %R	110 %R



LABORATORY REPORT

EAI ID#: 258494

Client: Sanborn, Head & Associates, Inc. (NH)

Client Designation: Granite State LF | Groundwater | 1003.24

Sample ID:	MW-25_20230411	MW-28R_20230411	MW-24_20230411	MW-5_20230411
Lab Sample ID:	258494.05	258494.06	258494.07	258494.08
Matrix:	aqueous	aqueous	aqueous	aqueous
Date Sampled:	4/11/23	4/11/23	4/11/23	4/11/23
Date Received:	4/12/23	4/12/23	4/12/23	4/12/23
Units:	ug/L	ug/L	ug/L	ug/L
Date of Analysis:	4/12/23	4/13/23	4/13/23	4/13/23
Analyst:	JAK	JAK	JAK	JAK
Method:	8260C	8260C	8260C	8260C
Dilution Factor:	1	1	1	1
Dichlorodifluoromethane	< 2	< 2	< 2	< 2
Chloromethane	< 2	< 2	< 2	< 2
Vinyl chloride	< 1	< 1	< 1	< 1
Bromomethane	< 2	< 2	< 2	< 2
Chloroethane	< 2	< 2	< 2	< 2
Trichlorofluoromethane	< 2	< 2	< 2	< 2
Diethyl Ether	< 2	< 2	< 2	< 2
Acetone	< 10	< 10	< 10	< 10
1,1-Dichloroethene	< 0.5	< 0.5	< 0.5	< 0.5
tert-Butyl Alcohol (TBA)	< 30	< 30	< 30	< 30
Methylene chloride	< 1	< 1	< 1	< 1
Carbon disulfide	< 2	< 2	< 2	< 2
Methyl-t-butyl ether(MTBE)	< 1	< 1	< 1	< 1
Ethyl-t-butyl ether(ETBE)	< 2	< 2	< 2	< 2
Isopropyl ether(DIPE)	< 2	< 2	< 2	< 2
tert-amyl methyl ether(TAME)	< 2	< 2	< 2	< 2
trans-1,2-Dichloroethene	< 1	< 1	< 1	< 1
1,1-Dichloroethane	< 1	< 1	< 1	< 1
2,2-Dichloropropane	< 1	< 1	< 1	< 1
cis-1,2-Dichloroethene	< 1	< 1	< 1	< 1
2-Butanone(MEK)	< 10	< 10	< 10	< 10
Bromochloromethane	< 1	< 1	< 1	< 1
Tetrahydrofuran(THF)	< 10	< 10	< 10	< 10
Chloroform	< 1	< 1	< 1	< 1
1,1,1-Trichloroethane	< 1	< 1	< 1	< 1
Carbon tetrachloride	< 1	< 1	< 1	< 1
1,1-Dichloropropene	< 1	< 1	< 1	< 1
Benzene	< 1	< 1	< 1	< 1
1,2-Dichloroethane	< 1	< 1	< 1	< 1
Trichloroethene	< 1	< 1	< 1	< 1
1,2-Dichloropropane	< 1	< 1	< 1	< 1
Dibromomethane	< 1	< 1	< 1	< 1
Bromodichloromethane	< 0.5	< 0.5	< 0.5	< 0.5
1,4-Dioxane	< 50	< 50	< 50	< 50
4-Methyl-2-pentanone(MIBK)	< 10	< 10	< 10	< 10
cis-1,3-Dichloropropene	< 0.5	< 0.5	< 0.5	< 0.5
Toluene	< 1	< 1	< 1	< 1
trans-1,3-Dichloropropene	< 0.5	< 0.5	< 0.5	< 0.5
1,1,2-Trichloroethane	< 1	< 1	< 1	< 1
2-Hexanone	< 10	< 10	< 10	< 10
Tetrachloroethene	< 1	< 1	< 1	< 1
1,3-Dichloropropane	< 1	< 1	< 1	< 1
Dibromochloromethane	< 1	< 1	< 1	< 1
1,2-Dibromoethane(EDB)	< 0.5	< 0.5	< 0.5	< 0.5
Chlorobenzene	< 1	< 1	< 1	< 1
1,1,1,2-Tetrachloroethane	< 1	< 1	< 1	< 1



LABORATORY REPORT

EAI ID#: **258494**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Granite State LF | Groundwater | 1003.24**

Sample ID:	MW-25_20230411	MW-28R_20230411	MW-24_20230411	MW-5_20230411
Lab Sample ID:	258494.05	258494.06	258494.07	258494.08
Matrix:	aqueous	aqueous	aqueous	aqueous
Date Sampled:	4/11/23	4/11/23	4/11/23	4/11/23
Date Received:	4/12/23	4/12/23	4/12/23	4/12/23
Units:	ug/L	ug/L	ug/L	ug/L
Date of Analysis:	4/12/23	4/13/23	4/13/23	4/13/23
Analyst:	JAK	JAK	JAK	JAK
Method:	8260C	8260C	8260C	8260C
Dilution Factor:	1	1	1	1
Ethylbenzene	< 1	< 1	< 1	< 1
mp-Xylene	< 1	< 1	< 1	< 1
o-Xylene	< 1	< 1	< 1	< 1
Styrene	< 1	< 1	< 1	< 1
Bromoform	< 2	< 2	< 2	< 2
IsoPropylbenzene	< 1	< 1	< 1	< 1
Bromobenzene	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	< 1	< 1	< 1	< 1
1,2,3-Trichloropropane	< 0.5	< 0.5	< 0.5	< 0.5
n-Propylbenzene	< 1	< 1	< 1	< 1
2-Chlorotoluene	< 1	< 1	< 1	< 1
4-Chlorotoluene	< 1	< 1	< 1	< 1
1,3,5-Trimethylbenzene	< 1	< 1	< 1	< 1
tert-Butylbenzene	< 1	< 1	< 1	< 1
1,2,4-Trimethylbenzene	< 1	< 1	< 1	< 1
sec-Butylbenzene	< 1	< 1	< 1	< 1
1,3-Dichlorobenzene	< 1	< 1	< 1	< 1
p-Isopropyltoluene	< 1	< 1	< 1	< 1
1,4-Dichlorobenzene	< 1	< 1	< 1	< 1
1,2-Dichlorobenzene	< 1	< 1	< 1	< 1
n-Butylbenzene	< 1	< 1	< 1	< 1
1,2-Dibromo-3-chloropropane	< 2	< 2	< 2	< 2
1,3,5-Trichlorobenzene	< 1	< 1	< 1	< 1
1,2,4-Trichlorobenzene	< 1	< 1	< 1	< 1
Hexachlorobutadiene	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	< 2	< 2	< 2	< 2
1,2,3-Trichlorobenzene	< 0.5	< 0.5	< 0.5	< 0.5
4-Bromofluorobenzene (surr)	93 %R	94 %R	93 %R	92 %R
1,2-Dichlorobenzene-d4 (surr)	102 %R	102 %R	102 %R	104 %R
Toluene-d8 (surr)	98 %R	100 %R	98 %R	97 %R
1,2-Dichloroethane-d4 (surr)	111 %R	113 %R	114 %R	114 %R



LABORATORY REPORT

EAI ID#: **258494**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Granite State LF | Groundwater | 1003.24**

Sample ID:	MW-12_20230411	MW-13_20230411	MW-40_20230411	MW-40R_20230411
Lab Sample ID:	258494.09	258494.1	258494.11	258494.12
Matrix:	aqueous	aqueous	aqueous	aqueous
Date Sampled:	4/11/23	4/11/23	4/11/23	4/11/23
Date Received:	4/12/23	4/12/23	4/12/23	4/12/23
Units:	ug/L	ug/L	ug/L	ug/L
Date of Analysis:	4/13/23	4/13/23	4/13/23	4/13/23
Analyst:	JAK	JAK	JAK	JAK
Method:	8260C	8260C	8260C	8260C
Dilution Factor:	1	1	1	1
Dichlorodifluoromethane	< 2	< 2	< 2	< 2
Chloromethane	< 2	< 2	< 2	< 2
Vinyl chloride	< 1	< 1	< 1	< 1
Bromomethane	< 2	< 2	< 2	< 2
Chloroethane	< 2	< 2	< 2	< 2
Trichlorofluoromethane	< 2	< 2	< 2	< 2
Diethyl Ether	< 2	< 2	< 2	< 2
Acetone	< 10	< 10	< 10	< 10
1,1-Dichloroethene	< 0.5	< 0.5	< 0.5	< 0.5
tert-Butyl Alcohol (TBA)	< 30	< 30	< 30	< 30
Methylene chloride	< 1	< 1	< 1	< 1
Carbon disulfide	< 2	< 2	< 2	< 2
Methyl-t-butyl ether(MTBE)	< 1	< 1	< 1	< 1
Ethyl-t-butyl ether(ETBE)	< 2	< 2	< 2	< 2
Isopropyl ether(DIPE)	< 2	< 2	< 2	< 2
tert-amyl methyl ether(TAME)	< 2	< 2	< 2	< 2
trans-1,2-Dichloroethene	< 1	< 1	< 1	< 1
1,1-Dichloroethane	< 1	< 1	< 1	< 1
2,2-Dichloropropane	< 1	< 1	< 1	< 1
cis-1,2-Dichloroethene	< 1	< 1	< 1	< 1
2-Butanone(MEK)	< 10	< 10	< 10	< 10
Bromochloromethane	< 1	< 1	< 1	< 1
Tetrahydrofuran(THF)	< 10	< 10	< 10	< 10
Chloroform	< 1	< 1	< 1	< 1
1,1,1-Trichloroethane	< 1	< 1	< 1	< 1
Carbon tetrachloride	< 1	< 1	< 1	< 1
1,1-Dichloropropene	< 1	< 1	< 1	< 1
Benzene	< 1	< 1	< 1	< 1
1,2-Dichloroethane	< 1	< 1	< 1	< 1
Trichloroethene	< 1	< 1	< 1	< 1
1,2-Dichloropropane	< 1	< 1	< 1	< 1
Dibromomethane	< 1	< 1	< 1	< 1
Bromodichloromethane	< 0.5	< 0.5	< 0.5	< 0.5
1,4-Dioxane	< 50	< 50	< 50	< 50
4-Methyl-2-pentanone(MIBK)	< 10	< 10	< 10	< 10
cis-1,3-Dichloropropene	< 0.5	< 0.5	< 0.5	< 0.5
Toluene	< 1	< 1	< 1	< 1
trans-1,3-Dichloropropene	< 0.5	< 0.5	< 0.5	< 0.5
1,1,2-Trichloroethane	< 1	< 1	< 1	< 1
2-Hexanone	< 10	< 10	< 10	< 10
Tetrachloroethene	< 1	< 1	< 1	< 1
1,3-Dichloropropane	< 1	< 1	< 1	< 1
Dibromochloromethane	< 1	< 1	< 1	< 1
1,2-Dibromoethane(EDB)	< 0.5	< 0.5	< 0.5	< 0.5
Chlorobenzene	< 1	< 1	< 1	< 1
1,1,1,2-Tetrachloroethane	< 1	< 1	< 1	< 1



LABORATORY REPORT

EAI ID#: **258494**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Granite State LF | Groundwater | 1003.24**

Sample ID:	MW-12_20230411	MW-13_20230411	MW-40_20230411	MW-40R_20230411
Lab Sample ID:	258494.09	258494.1	258494.11	258494.12
Matrix:	aqueous	aqueous	aqueous	aqueous
Date Sampled:	4/11/23	4/11/23	4/11/23	4/11/23
Date Received:	4/12/23	4/12/23	4/12/23	4/12/23
Units:	ug/L	ug/L	ug/L	ug/L
Date of Analysis:	4/13/23	4/13/23	4/13/23	4/13/23
Analyst:	JAK	JAK	JAK	JAK
Method:	8260C	8260C	8260C	8260C
Dilution Factor:	1	1	1	1
Ethylbenzene	< 1	< 1	< 1	< 1
mp-Xylene	< 1	< 1	< 1	< 1
o-Xylene	< 1	< 1	< 1	< 1
Styrene	< 1	< 1	< 1	< 1
Bromoform	< 2	< 2	< 2	< 2
IsoPropylbenzene	< 1	< 1	< 1	< 1
Bromobenzene	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	< 1	< 1	< 1	< 1
1,2,3-Trichloropropane	< 0.5	< 0.5	< 0.5	< 0.5
n-Propylbenzene	< 1	< 1	< 1	< 1
2-Chlorotoluene	< 1	< 1	< 1	< 1
4-Chlorotoluene	< 1	< 1	< 1	< 1
1,3,5-Trimethylbenzene	< 1	< 1	< 1	< 1
tert-Butylbenzene	< 1	< 1	< 1	< 1
1,2,4-Trimethylbenzene	< 1	< 1	< 1	< 1
sec-Butylbenzene	< 1	< 1	< 1	< 1
1,3-Dichlorobenzene	< 1	< 1	< 1	< 1
p-Isopropyltoluene	< 1	< 1	< 1	< 1
1,4-Dichlorobenzene	< 1	< 1	< 1	< 1
1,2-Dichlorobenzene	< 1	< 1	< 1	< 1
n-Butylbenzene	< 1	< 1	< 1	< 1
1,2-Dibromo-3-chloropropane	< 2	< 2	< 2	< 2
1,3,5-Trichlorobenzene	< 1	< 1	< 1	< 1
1,2,4-Trichlorobenzene	< 1	< 1	< 1	< 1
Hexachlorobutadiene	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	< 2	< 2	< 2	< 2
1,2,3-Trichlorobenzene	< 0.5	< 0.5	< 0.5	< 0.5
4-Bromofluorobenzene (surr)	93 %R	92 %R	92 %R	92 %R
1,2-Dichlorobenzene-d4 (surr)	103 %R	104 %R	104 %R	104 %R
Toluene-d8 (surr)	98 %R	98 %R	98 %R	97 %R
1,2-Dichloroethane-d4 (surr)	113 %R	114 %R	114 %R	114 %R



LABORATORY REPORT

EAI ID#: **258494**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Granite State LF | Groundwater | 1003.24**

Sample ID:	MW-41_20230411	MW-41R_20230411	MW-43_20230411	MW-43R_20230411
Lab Sample ID:	258494.13	258494.14	258494.15	258494.16
Matrix:	aqueous	aqueous	aqueous	aqueous
Date Sampled:	4/11/23	4/11/23	4/11/23	4/11/23
Date Received:	4/12/23	4/12/23	4/12/23	4/12/23
Units:	ug/L	ug/L	ug/L	ug/L
Date of Analysis:	4/13/23	4/13/23	4/13/23	4/13/23
Analyst:	JAK	JAK	JAK	JAK
Method:	8260C	8260C	8260C	8260C
Dilution Factor:	1	1	1	1
Dichlorodifluoromethane	< 2	< 2	< 2	< 2
Chloromethane	< 2	< 2	< 2	< 2
Vinyl chloride	< 1	< 1	< 1	< 1
Bromomethane	< 2	< 2	< 2	< 2
Chloroethane	< 2	< 2	< 2	< 2
Trichlorofluoromethane	< 2	< 2	< 2	< 2
Diethyl Ether	< 2	< 2	< 2	< 2
Acetone	< 10	< 10	< 10	< 10
1,1-Dichloroethene	< 0.5	< 0.5	< 0.5	< 0.5
tert-Butyl Alcohol (TBA)	< 30	< 30	< 30	< 30
Methylene chloride	< 1	< 1	< 1	< 1
Carbon disulfide	< 2	< 2	< 2	< 2
Methyl-t-butyl ether(MTBE)	< 1	< 1	< 1	< 1
Ethyl-t-butyl ether(ETBE)	< 2	< 2	< 2	< 2
Isopropyl ether(DIPE)	< 2	< 2	< 2	< 2
tert-amyl methyl ether(TAME)	< 2	< 2	< 2	< 2
trans-1,2-Dichloroethene	< 1	< 1	< 1	< 1
1,1-Dichloroethane	< 1	< 1	< 1	< 1
2,2-Dichloropropane	< 1	< 1	< 1	< 1
cis-1,2-Dichloroethene	< 1	< 1	< 1	< 1
2-Butanone(MEK)	< 10	< 10	< 10	< 10
Bromochloromethane	< 1	< 1	< 1	< 1
Tetrahydrofuran(THF)	< 10	< 10	< 10	< 10
Chloroform	< 1	< 1	< 1	< 1
1,1,1-Trichloroethane	< 1	< 1	< 1	< 1
Carbon tetrachloride	< 1	< 1	< 1	< 1
1,1-Dichloropropene	< 1	< 1	< 1	< 1
Benzene	< 1	< 1	< 1	< 1
1,2-Dichloroethane	< 1	< 1	< 1	< 1
Trichloroethene	< 1	< 1	< 1	< 1
1,2-Dichloropropane	< 1	< 1	< 1	< 1
Dibromomethane	< 1	< 1	< 1	< 1
Bromodichloromethane	< 0.5	< 0.5	< 0.5	< 0.5
1,4-Dioxane	< 50	< 50	< 50	< 50
4-Methyl-2-pentanone(MIBK)	< 10	< 10	< 10	< 10
cis-1,3-Dichloropropene	< 0.5	< 0.5	< 0.5	< 0.5
Toluene	< 1	< 1	< 1	< 1
trans-1,3-Dichloropropene	< 0.5	< 0.5	< 0.5	< 0.5
1,1,2-Trichloroethane	< 1	< 1	< 1	< 1
2-Hexanone	< 10	< 10	< 10	< 10
Tetrachloroethene	< 1	< 1	< 1	< 1
1,3-Dichloropropane	< 1	< 1	< 1	< 1
Dibromochloromethane	< 1	< 1	< 1	< 1
1,2-Dibromoethane(EDB)	< 0.5	< 0.5	< 0.5	< 0.5
Chlorobenzene	< 1	< 1	< 1	< 1
1,1,1,2-Tetrachloroethane	< 1	< 1	< 1	< 1



LABORATORY REPORT

EAI ID#: **258494**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Granite State LF | Groundwater | 1003.24**

Sample ID:	MW-41_20230411	MW-41R_20230411	MW-43_20230411	MW-43R_20230411
Lab Sample ID:	258494.13	258494.14	258494.15	258494.16
Matrix:	aqueous	aqueous	aqueous	aqueous
Date Sampled:	4/11/23	4/11/23	4/11/23	4/11/23
Date Received:	4/12/23	4/12/23	4/12/23	4/12/23
Units:	ug/L	ug/L	ug/L	ug/L
Date of Analysis:	4/13/23	4/13/23	4/13/23	4/13/23
Analyst:	JAK	JAK	JAK	JAK
Method:	8260C	8260C	8260C	8260C
Dilution Factor:	1	1	1	1
Ethylbenzene	< 1	< 1	< 1	< 1
mp-Xylene	< 1	< 1	< 1	< 1
o-Xylene	< 1	< 1	< 1	< 1
Styrene	< 1	< 1	< 1	< 1
Bromoform	< 2	< 2	< 2	< 2
IsoPropylbenzene	< 1	< 1	< 1	< 1
Bromobenzene	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	< 1	< 1	< 1	< 1
1,2,3-Trichloropropane	< 0.5	< 0.5	< 0.5	< 0.5
n-Propylbenzene	< 1	< 1	< 1	< 1
2-Chlorotoluene	< 1	< 1	< 1	< 1
4-Chlorotoluene	< 1	< 1	< 1	< 1
1,3,5-Trimethylbenzene	< 1	< 1	< 1	< 1
tert-Butylbenzene	< 1	< 1	< 1	< 1
1,2,4-Trimethylbenzene	< 1	< 1	< 1	< 1
sec-Butylbenzene	< 1	< 1	< 1	< 1
1,3-Dichlorobenzene	< 1	< 1	< 1	< 1
p-Isopropyltoluene	< 1	< 1	< 1	< 1
1,4-Dichlorobenzene	< 1	< 1	< 1	< 1
1,2-Dichlorobenzene	< 1	< 1	< 1	< 1
n-Butylbenzene	< 1	< 1	< 1	< 1
1,2-Dibromo-3-chloropropane	< 2	< 2	< 2	< 2
1,3,5-Trichlorobenzene	< 1	< 1	< 1	< 1
1,2,4-Trichlorobenzene	< 1	< 1	< 1	< 1
Hexachlorobutadiene	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	< 2	< 2	< 2	< 2
1,2,3-Trichlorobenzene	< 0.5	< 0.5	< 0.5	< 0.5
4-Bromofluorobenzene (surr)	91 %R	91 %R	91 %R	91 %R
1,2-Dichlorobenzene-d4 (surr)	104 %R	104 %R	104 %R	105 %R
Toluene-d8 (surr)	98 %R	97 %R	97 %R	97 %R
1,2-Dichloroethane-d4 (surr)	115 %R	114 %R	115 %R	115 %R



LABORATORY REPORT

EAI ID#: 258494

Client: Sanborn, Head & Associates, Inc. (NH)

Client Designation: Granite State LF | Groundwater | 1003.24

Sample ID: TB-GW-02_20230411 GWDUP-1_20230411

Lab Sample ID:	258494.17	258494.19
Matrix:	aqueous	aqueous
Date Sampled:	4/11/23	4/11/23
Date Received:	4/12/23	4/12/23
Units:	ug/L	ug/L
Date of Analysis:	4/13/23	4/13/23
Analyst:	JAK	JAK
Method:	8260C	8260C
Dilution Factor:	1	1

Dichlorodifluoromethane	< 2	< 2
Chloromethane	< 2	< 2
Vinyl chloride	< 1	< 1
Bromomethane	< 2	< 2
Chloroethane	< 2	< 2
Trichlorofluoromethane	< 2	< 2
Diethyl Ether	< 2	< 2
Acetone	< 10	< 10
1,1-Dichloroethene	< 0.5	< 0.5
tert-Butyl Alcohol (TBA)	< 30	< 30
Methylene chloride	< 1	< 1
Carbon disulfide	< 2	< 2
Methyl-t-butyl ether(MTBE)	< 1	< 1
Ethyl-t-butyl ether(ETBE)	< 2	< 2
Isopropyl ether(DIPE)	< 2	< 2
tert-amyl methyl ether(TAME)	< 2	< 2
trans-1,2-Dichloroethene	< 1	< 1
1,1-Dichloroethane	< 1	< 1
2,2-Dichloropropane	< 1	< 1
cis-1,2-Dichloroethene	< 1	< 1
2-Butanone(MEK)	< 10	< 10
Bromochloromethane	< 1	< 1
Tetrahydrofuran(THF)	< 10	< 10
Chloroform	< 1	< 1
1,1,1-Trichloroethane	< 1	< 1
Carbon tetrachloride	< 1	< 1
1,1-Dichloropropene	< 1	< 1
Benzene	< 1	< 1
1,2-Dichloroethane	< 1	< 1
Trichloroethene	< 1	< 1
1,2-Dichloropropane	< 1	< 1
Dibromomethane	< 1	< 1
Bromodichloromethane	< 0.5	< 0.5
1,4-Dioxane	< 50	< 50
4-Methyl-2-pentanone(MIBK)	< 10	< 10
cis-1,3-Dichloropropene	< 0.5	< 0.5
Toluene	< 1	< 1
trans-1,3-Dichloropropene	< 0.5	< 0.5
1,1,2-Trichloroethane	< 1	< 1
2-Hexanone	< 10	< 10
Tetrachloroethene	< 1	< 1
1,3-Dichloropropane	< 1	< 1
Dibromochloromethane	< 1	< 1
1,2-Dibromoethane(EDB)	< 0.5	< 0.5
Chlorobenzene	< 1	< 1
1,1,1,2-Tetrachloroethane	< 1	< 1



LABORATORY REPORT

EAI ID#: 258494

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Granite State LF | Groundwater | 1003.24**

Sample ID: TB-GW-02_20230411 GWDUP-1_20230411

Lab Sample ID:	258494.17	258494.19
Matrix:	aqueous	aqueous
Date Sampled:	4/11/23	4/11/23
Date Received:	4/12/23	4/12/23
Units:	ug/L	ug/L
Date of Analysis:	4/13/23	4/13/23
Analyst:	JAK	JAK
Method:	8260C	8260C
Dilution Factor:	1	1
Ethylbenzene	< 1	< 1
mp-Xylene	< 1	< 1
o-Xylene	< 1	< 1
Styrene	< 1	< 1
Bromoform	< 2	< 2
IsoPropylbenzene	< 1	< 1
Bromobenzene	< 1	< 1
1,1,2,2-Tetrachloroethane	< 1	< 1
1,2,3-Trichloropropane	< 0.5	< 0.5
n-Propylbenzene	< 1	< 1
2-Chlorotoluene	< 1	< 1
4-Chlorotoluene	< 1	< 1
1,3,5-Trimethylbenzene	< 1	< 1
tert-Butylbenzene	< 1	< 1
1,2,4-Trimethylbenzene	< 1	< 1
sec-Butylbenzene	< 1	< 1
1,3-Dichlorobenzene	< 1	< 1
p-Isopropyltoluene	< 1	< 1
1,4-Dichlorobenzene	< 1	< 1
1,2-Dichlorobenzene	< 1	< 1
n-Butylbenzene	< 1	< 1
1,2-Dibromo-3-chloropropane	< 2	< 2
1,3,5-Trichlorobenzene	< 1	< 1
1,2,4-Trichlorobenzene	< 1	< 1
Hexachlorobutadiene	< 0.5	< 0.5
Naphthalene	< 2	< 2
1,2,3-Trichlorobenzene	< 0.5	< 0.5
4-Bromofluorobenzene (surr)	92 %R	93 %R
1,2-Dichlorobenzene-d4 (surr)	103 %R	102 %R
Toluene-d8 (surr)	99 %R	98 %R
1,2-Dichloroethane-d4 (surr)	112 %R	115 %R



QC REPORT

EAI ID#: 258494

Client: Sanborn, Head & Associates, Inc. (NH)

Batch ID: 638168-94177/A041223V82601

Client Designation: Granite State LF | Groundwater | 1003.24

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
Dichlorodifluoromethane	< 2	22 (108 %R)	20 (98 %R) (10 RPD)	4/12/2023	ug/L	40 - 160	20	8260C
Chloromethane	< 2	17 (83 %R)	16 (81 %R) (2 RPD)	4/12/2023	ug/L	40 - 160	20	8260C
Vinyl chloride	< 1	24 (121 %R)	22 (111 %R) (9 RPD)	4/12/2023	ug/L	70 - 130	20	8260C
Bromomethane	< 2	22 (111 %R)	18 (92 %R) (18 RPD)	4/12/2023	ug/L	40 - 160	20	8260C
Chloroethane	< 2	23 (117 %R)	21 (107 %R) (8 RPD)	4/12/2023	ug/L	70 - 130	20	8260C
Trichlorofluoromethane	< 2	24 (119 %R)	23 (114 %R) (5 RPD)	4/12/2023	ug/L	70 - 130	20	8260C
Diethyl Ether	< 2	19 (94 %R)	19 (93 %R) (1 RPD)	4/12/2023	ug/L	70 - 130	20	8260C
Acetone	< 10	21 (103 %R)	22 (111 %R) (7 RPD)	4/12/2023	ug/L	40 - 160	20	8260C
1,1-Dichloroethene	< 0.5	22 (108 %R)	21 (103 %R) (5 RPD)	4/12/2023	ug/L	70 - 130	20	8260C
tert-Butyl Alcohol (TBA)	< 30	120 (116 %R)	120 (121 %R) (5 RPD)	4/12/2023	ug/L	70 - 130	20	8260C
Methylene chloride	< 1	21 (107 %R)	21 (104 %R) (2 RPD)	4/12/2023	ug/L	70 - 130	20	8260C
Carbon disulfide	< 2	20 (100 %R)	20 (98 %R) (2 RPD)	4/12/2023	ug/L	70 - 130	20	8260C
Methyl-t-butyl ether(MTBE)	< 1	23 (114 %R)	23 (114 %R) (0 RPD)	4/12/2023	ug/L	70 - 130	20	8260C
Ethyl-t-butyl ether(ETBE)	< 2	23 (116 %R)	23 (115 %R) (1 RPD)	4/12/2023	ug/L	70 - 130	20	8260C
Isopropyl ether(DIPE)	< 2	24 (120 %R)	24 (118 %R) (1 RPD)	4/12/2023	ug/L	70 - 130	20	8260C
tert-amyl methyl ether(TAME)	< 2	23 (113 %R)	23 (113 %R) (0 RPD)	4/12/2023	ug/L	70 - 130	20	8260C
trans-1,2-Dichloroethene	< 1	22 (108 %R)	21 (104 %R) (4 RPD)	4/12/2023	ug/L	70 - 130	20	8260C
1,1-Dichloroethane	< 1	23 (117 %R)	23 (113 %R) (4 RPD)	4/12/2023	ug/L	70 - 130	20	8260C
2,2-Dichloropropane	< 1	25 (126 %R)	24 (118 %R) (7 RPD)	4/12/2023	ug/L	70 - 130	20	8260C
cis-1,2-Dichloroethene	< 1	24 (118 %R)	23 (114 %R) (3 RPD)	4/12/2023	ug/L	70 - 130	20	8260C
2-Butanone(MEK)	< 10	24 (118 %R)	24 (122 %R) (3 RPD)	4/12/2023	ug/L	40 - 160	20	8260C
Bromochloromethane	< 1	21 (105 %R)	21 (107 %R) (2 RPD)	4/12/2023	ug/L	70 - 130	20	8260C
Tetrahydrofuran(THF)	< 10	25 (124 %R)	26 (128 %R) (4 RPD)	4/12/2023	ug/L	70 - 130	20	8260C
Chloroform	< 1	22 (110 %R)	21 (106 %R) (4 RPD)	4/12/2023	ug/L	70 - 130	20	8260C
1,1,1-Trichloroethane	< 1	22 (110 %R)	21 (105 %R) (4 RPD)	4/12/2023	ug/L	70 - 130	20	8260C
Carbon tetrachloride	< 1	22 (110 %R)	21 (105 %R) (5 RPD)	4/12/2023	ug/L	70 - 130	20	8260C
1,1-Dichloropropene	< 1	23 (117 %R)	22 (112 %R) (4 RPD)	4/12/2023	ug/L	70 - 130	20	8260C
Benzene	< 1	22 (111 %R)	22 (108 %R) (3 RPD)	4/12/2023	ug/L	70 - 130	20	8260C
1,2-Dichloroethane	< 1	22 (112 %R)	22 (110 %R) (1 RPD)	4/12/2023	ug/L	70 - 130	20	8260C
Trichloroethene	< 1	22 (111 %R)	21 (106 %R) (4 RPD)	4/12/2023	ug/L	70 - 130	20	8260C
1,2-Dichloropropane	< 1	23 (113 %R)	22 (111 %R) (2 RPD)	4/12/2023	ug/L	70 - 130	20	8260C
Dibromomethane	< 1	22 (110 %R)	21 (107 %R) (3 RPD)	4/12/2023	ug/L	70 - 130	20	8260C
Bromodichloromethane	< 0.5	22 (109 %R)	21 (106 %R) (2 RPD)	4/12/2023	ug/L	70 - 130	20	8260C
1,4-Dioxane	< 50	< 50 (118 %R)	< 50 (122 %R) (4 RPD)	4/12/2023	ug/L	40 - 160	20	8260C
4-Methyl-2-pentanone(MIBK)	< 10	24 (118 %R)	24 (120 %R) (2 RPD)	4/12/2023	ug/L	40 - 160	20	8260C
cis-1,3-Dichloropropene	< 0.5	22 (112 %R)	22 (109 %R) (3 RPD)	4/12/2023	ug/L	70 - 130	20	8260C
Toluene	< 1	23 (116 %R)	23 (113 %R) (3 RPD)	4/12/2023	ug/L	70 - 130	20	8260C
trans-1,3-Dichloropropene	< 0.5	24 (120 %R)	24 (118 %R) (1 RPD)	4/12/2023	ug/L	70 - 130	20	8260C
1,1,2-Trichloroethane	< 1	22 (112 %R)	22 (112 %R) (1 RPD)	4/12/2023	ug/L	70 - 130	20	8260C
2-Hexanone	< 10	24 (119 %R)	25 (124 %R) (4 RPD)	4/12/2023	ug/L	40 - 160	20	8260C
Tetrachloroethene	< 1	22 (112 %R)	22 (108 %R) (3 RPD)	4/12/2023	ug/L	70 - 130	20	8260C
1,3-Dichloropropane	< 1	22 (112 %R)	22 (112 %R) (0 RPD)	4/12/2023	ug/L	70 - 130	20	8260C
Dibromochloromethane	< 1	21 (107 %R)	22 (108 %R) (0 RPD)	4/12/2023	ug/L	70 - 130	20	8260C
1,2-Dibromoethane(EDB)	< 0.5	24 (119 %R)	23 (117 %R) (1 RPD)	4/12/2023	ug/L	70 - 130	20	8260C
Chlorobenzene	< 1	23 (113 %R)	22 (110 %R) (2 RPD)	4/12/2023	ug/L	70 - 130	20	8260C
1,1,1,2-Tetrachloroethane	< 1	22 (109 %R)	22 (108 %R) (1 RPD)	4/12/2023	ug/L	70 - 130	20	8260C



QC REPORT

EAI ID#: 258494

Client: Sanborn, Head & Associates, Inc. (NH)

Batch ID: 638168-94177/A041223V82601

Client Designation: Granite State LF | Groundwater | 1003.24

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
Ethylbenzene	< 1	24 (121 %R)	23 (117 %R) (3 RPD)	4/12/2023	ug/L	70 - 130	20	8260C
mp-Xylene	< 1	45 (112 %R)	43 (108 %R) (4 RPD)	4/12/2023	ug/L	70 - 130	20	8260C
o-Xylene	< 1	22 (112 %R)	22 (109 %R) (2 RPD)	4/12/2023	ug/L	70 - 130	20	8260C
Styrene	< 1	18 (90 %R)	18 (89 %R) (1 RPD)	4/12/2023	ug/L	70 - 130	20	8260C
Bromoform	< 2	20 (101 %R)	20 (102 %R) (2 RPD)	4/12/2023	ug/L	70 - 130	20	8260C
IsoPropylbenzene	< 1	22 (111 %R)	22 (108 %R) (3 RPD)	4/12/2023	ug/L	70 - 130	20	8260C
Bromobenzene	< 1	23 (113 %R)	22 (112 %R) (1 RPD)	4/12/2023	ug/L	70 - 130	20	8260C
1,1,2,2-Tetrachloroethane	< 1	23 (115 %R)	23 (116 %R) (1 RPD)	4/12/2023	ug/L	70 - 130	20	8260C
1,2,3-Trichloropropane	< 0.5	23 (113 %R)	23 (114 %R) (2 RPD)	4/12/2023	ug/L	70 - 130	20	8260C
n-Propylbenzene	< 1	25 (124 %R)	24 (122 %R) (2 RPD)	4/12/2023	ug/L	70 - 130	20	8260C
2-Chlorotoluene	< 1	25 (124 %R)	24 (120 %R) (3 RPD)	4/12/2023	ug/L	70 - 130	20	8260C
4-Chlorotoluene	< 1	25 (123 %R)	24 (122 %R) (1 RPD)	4/12/2023	ug/L	70 - 130	20	8260C
1,3,5-Trimethylbenzene	< 1	24 (118 %R)	23 (115 %R) (2 RPD)	4/12/2023	ug/L	70 - 130	20	8260C
tert-Butylbenzene	< 1	* 26 (131 %R)	26 (129 %R) (1 RPD)	4/12/2023	ug/L	70 - 130	20	8260C
1,2,4-Trimethylbenzene	< 1	23 (115 %R)	23 (113 %R) (2 RPD)	4/12/2023	ug/L	70 - 130	20	8260C
sec-Butylbenzene	< 1	26 (128 %R)	25 (126 %R) (1 RPD)	4/12/2023	ug/L	70 - 130	20	8260C
1,3-Dichlorobenzene	< 1	23 (113 %R)	23 (113 %R) (0 RPD)	4/12/2023	ug/L	70 - 130	20	8260C
p-Isopropyltoluene	< 1	23 (113 %R)	22 (112 %R) (1 RPD)	4/12/2023	ug/L	70 - 130	20	8260C
1,4-Dichlorobenzene	< 1	22 (108 %R)	21 (107 %R) (1 RPD)	4/12/2023	ug/L	70 - 130	20	8260C
1,2-Dichlorobenzene	< 1	22 (109 %R)	22 (109 %R) (0 RPD)	4/12/2023	ug/L	70 - 130	20	8260C
n-Butylbenzene	< 1	23 (115 %R)	23 (113 %R) (2 RPD)	4/12/2023	ug/L	70 - 130	20	8260C
1,2-Dibromo-3-chloropropane	< 2	22 (109 %R)	22 (110 %R) (1 RPD)	4/12/2023	ug/L	70 - 130	20	8260C
1,3,5-Trichlorobenzene	< 1	23 (113 %R)	22 (111 %R) (2 RPD)	4/12/2023	ug/L	70 - 130	20	8260C
1,2,4-Trichlorobenzene	< 1	23 (117 %R)	22 (112 %R) (4 RPD)	4/12/2023	ug/L	70 - 130	20	8260C
Hexachlorobutadiene	< 0.5	21 (104 %R)	20 (102 %R) (1 RPD)	4/12/2023	ug/L	70 - 130	20	8260C
Naphthalene	< 2	25 (123 %R)	23 (117 %R) (5 RPD)	4/12/2023	ug/L	70 - 130	20	8260C
1,2,3-Trichlorobenzene	< 0.5	23 (117 %R)	23 (113 %R) (4 RPD)	4/12/2023	ug/L	70 - 130	20	8260C
4-Bromofluorobenzene (surr)	96 %R	98 %R	98 %R	4/12/2023	% Rec	70 - 130	20	8260C
1,2-Dichlorobenzene-d4 (surr)	100 %R	95 %R	95 %R	4/12/2023	% Rec	70 - 130	20	8260C
Toluene-d8 (surr)	99 %R	103 %R	104 %R	4/12/2023	% Rec	70 - 130	20	8260C
1,2-Dichloroethane-d4 (surr)	106 %R	100 %R	100 %R	4/12/2023	% Rec	70 - 130	20	8260C

*! Flagged analyte recoveries deviated from the QA/QC limits. Data that impacts sample results are noted on the sample report.



QC REPORT

EAI ID#: 258494

Client: Sanborn, Head & Associates, Inc. (NH)

Batch ID: 638168-99770/A041223V82602

Client Designation: Granite State LF | Groundwater | 1003.24

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
Dichlorodifluoromethane	< 2	21 (107 %R)	21 (103 %R) (5 RPD)	4/13/2023	ug/L	40 - 160	20	8260C
Chloromethane	< 2	19 (93 %R)	18 (89 %R) (5 RPD)	4/13/2023	ug/L	40 - 160	20	8260C
Vinyl chloride	< 1	24 (121 %R)	23 (116 %R) (4 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
Bromomethane	< 2	19 (96 %R)	19 (97 %R) (1 RPD)	4/13/2023	ug/L	40 - 160	20	8260C
Chloroethane	< 2	23 (117 %R)	23 (113 %R) (4 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
Trichlorofluoromethane	< 2	24 (122 %R)	24 (118 %R) (3 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
Diethyl Ether	< 2	19 (95 %R)	19 (95 %R) (0 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
Acetone	< 10	25 (124 %R)	24 (122 %R) (1 RPD)	4/13/2023	ug/L	40 - 160	20	8260C
1,1-Dichloroethene	< 0.5	22 (109 %R)	21 (106 %R) (3 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
tert-Butyl Alcohol (TBA)	< 30	110 (112 %R)	110 (112 %R) (0 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
Methylene chloride	< 1	22 (109 %R)	21 (107 %R) (2 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
Carbon disulfide	< 2	22 (111 %R)	22 (108 %R) (3 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
Methyl-t-butyl ether(MTBE)	< 1	23 (113 %R)	23 (114 %R) (0 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
Ethyl-t-butyl ether(ETBE)	< 2	23 (115 %R)	23 (115 %R) (0 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
Isopropyl ether(DIPE)	< 2	24 (121 %R)	24 (121 %R) (1 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
tert-amyl methyl ether(TAME)	< 2	23 (113 %R)	23 (113 %R) (0 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
trans-1,2-Dichloroethene	< 1	22 (110 %R)	21 (107 %R) (3 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
1,1-Dichloroethane	< 1	24 (120 %R)	23 (117 %R) (2 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
2,2-Dichloropropane	< 1	18 (91 %R)	18 (88 %R) (4 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
cis-1,2-Dichloroethene	< 1	24 (119 %R)	23 (117 %R) (2 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
2-Butanone(MEK)	< 10	24 (121 %R)	24 (119 %R) (1 RPD)	4/13/2023	ug/L	40 - 160	20	8260C
Bromochloromethane	< 1	23 (114 %R)	22 (112 %R) (1 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
Tetrahydrofuran(THF)	< 10	24 (121 %R)	24 (122 %R) (1 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
Chloroform	< 1	23 (113 %R)	22 (111 %R) (2 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
1,1,1-Trichloroethane	< 1	22 (111 %R)	22 (109 %R) (2 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
Carbon tetrachloride	< 1	23 (114 %R)	22 (111 %R) (3 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
1,1-Dichloropropene	< 1	24 (118 %R)	23 (114 %R) (3 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
Benzene	< 1	23 (115 %R)	22 (112 %R) (2 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
1,2-Dichloroethane	< 1	23 (117 %R)	23 (116 %R) (1 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
Trichloroethene	< 1	25 (126 %R)	25 (123 %R) (3 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
1,2-Dichloropropane	< 1	23 (117 %R)	23 (115 %R) (2 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
Dibromomethane	< 1	23 (115 %R)	23 (114 %R) (1 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
Bromodichloromethane	< 0.5	23 (115 %R)	23 (113 %R) (1 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
1,4-Dioxane	< 50	< 50 (123 %R)	< 50 (118 %R) (4 RPD)	4/13/2023	ug/L	40 - 160	20	8260C
4-Methyl-2-pentanone(MIBK)	< 10	23 (117 %R)	23 (116 %R) (1 RPD)	4/13/2023	ug/L	40 - 160	20	8260C
cis-1,3-Dichloropropene	< 0.5	22 (108 %R)	21 (107 %R) (1 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
Toluene	< 1	24 (118 %R)	24 (118 %R) (1 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
trans-1,3-Dichloropropene	< 0.5	23 (116 %R)	23 (116 %R) (0 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
1,1,2-Trichloroethane	< 1	24 (119 %R)	24 (119 %R) (1 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
2-Hexanone	< 10	25 (123 %R)	25 (123 %R) (1 RPD)	4/13/2023	ug/L	40 - 160	20	8260C
Tetrachloroethene	< 1	23 (115 %R)	22 (112 %R) (2 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
1,3-Dichloropropane	< 1	23 (117 %R)	24 (118 %R) (0 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
Dibromochloromethane	< 1	23 (115 %R)	23 (115 %R) (1 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
1,2-Dibromoethane(EDB)	< 0.5	24 (122 %R)	25 (124 %R) (1 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
Chlorobenzene	< 1	23 (116 %R)	23 (115 %R) (1 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
1,1,1,2-Tetrachloroethane	< 1	23 (117 %R)	23 (116 %R) (0 RPD)	4/13/2023	ug/L	70 - 130	20	8260C



QC REPORT

EAI ID#: 258494

Client: Sanborn, Head & Associates, Inc. (NH)

Batch ID: 638168-99770/A041223V82602

Client Designation: Granite State LF | Groundwater | 1003.24

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
Ethylbenzene	< 1	25 (124 %R)	24 (122 %R) (1 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
mp-Xylene	< 1	46 (115 %R)	45 (114 %R) (1 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
o-Xylene	< 1	23 (115 %R)	23 (114 %R) (1 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
Styrene	< 1	21 (103 %R)	20 (102 %R) (1 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
Bromoform	< 2	22 (110 %R)	22 (111 %R) (1 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
IsoPropylbenzene	< 1	23 (117 %R)	23 (115 %R) (2 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
Bromobenzene	< 1	22 (110 %R)	22 (110 %R) (0 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
1,1,2,2-Tetrachloroethane	< 1	19 (95 %R)	20 (98 %R) (2 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
1,2,3-Trichloropropane	< 0.5	22 (109 %R)	22 (110 %R) (1 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
n-Propylbenzene	< 1	24 (121 %R)	24 (120 %R) (1 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
2-Chlorotoluene	< 1	23 (116 %R)	24 (119 %R) (2 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
4-Chlorotoluene	< 1	25 (126 %R)	24 (121 %R) (4 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
1,3,5-Trimethylbenzene	< 1	23 (117 %R)	23 (116 %R) (1 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
tert-Butylbenzene	< 1	23 (116 %R)	23 (115 %R) (1 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
1,2,4-Trimethylbenzene	< 1	23 (117 %R)	23 (115 %R) (1 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
sec-Butylbenzene	< 1	26 (128 %R)	25 (126 %R) (1 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
1,3-Dichlorobenzene	< 1	23 (114 %R)	23 (113 %R) (1 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
p-Isopropyltoluene	< 1	23 (113 %R)	22 (111 %R) (1 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
1,4-Dichlorobenzene	< 1	22 (108 %R)	22 (108 %R) (0 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
1,2-Dichlorobenzene	< 1	22 (111 %R)	22 (110 %R) (0 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
n-Butylbenzene	< 1	23 (113 %R)	22 (111 %R) (1 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
1,2-Dibromo-3-chloropropane	< 2	21 (104 %R)	21 (105 %R) (1 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
1,3,5-Trichlorobenzene	< 1	22 (110 %R)	22 (110 %R) (1 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
1,2,4-Trichlorobenzene	< 1	22 (108 %R)	22 (108 %R) (0 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
Hexachlorobutadiene	< 0.5	21 (104 %R)	21 (103 %R) (0 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
Naphthalene	< 2	22 (110 %R)	22 (110 %R) (0 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
1,2,3-Trichlorobenzene	< 0.5	22 (109 %R)	22 (109 %R) (0 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
4-Bromofluorobenzene (surr)	94 %R	103 %R	102 %R	4/13/2023	% Rec	70 - 130	20	8260C
1,2-Dichlorobenzene-d4 (surr)	102 %R	95 %R	96 %R	4/13/2023	% Rec	70 - 130	20	8260C
Toluene-d8 (surr)	98 %R	102 %R	103 %R	4/13/2023	% Rec	70 - 130	20	8260C
1,2-Dichloroethane-d4 (surr)	111 %R	104 %R	104 %R	4/13/2023	% Rec	70 - 130	20	8260C

*! Flagged analyte recoveries deviated from the QA/QC limits. Data that impacts sample results are noted on the sample report.



QC REPORT

EAI ID#: 258494

Client: Sanborn, Head & Associates, Inc. (NH)

Batch ID: 638169-91215/A041323V82601

Client Designation: Granite State LF | Groundwater | 1003.24

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
Dichlorodifluoromethane	< 2	22 (112 %R)	20 (102 %R) (10 RPD)	4/13/2023	ug/L	40 - 160	20	8260C
Chloromethane	< 2	17 (84 %R)	18 (89 %R) (7 RPD)	4/13/2023	ug/L	40 - 160	20	8260C
Vinyl chloride	< 1	25 (124 %R)	23 (113 %R) (9 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
Bromomethane	< 2	23 (117 %R)	18 (90 %R) (27 RPD) !	4/13/2023	ug/L	40 - 160	20	8260C
Chloroethane	< 2	24 (119 %R)	22 (110 %R) (8 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
Trichlorofluoromethane	< 2	25 (124 %R)	23 (116 %R) (6 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
Diethyl Ether	< 2	19 (95 %R)	19 (93 %R) (2 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
Acetone	< 10	22 (110 %R)	24 (118 %R) (7 RPD)	4/13/2023	ug/L	40 - 160	20	8260C
1,1-Dichloroethene	< 0.5	22 (109 %R)	20 (102 %R) (7 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
tert-Butyl Alcohol (TBA)	< 30	120 (116 %R)	120 (123 %R) (5 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
Methylene chloride	< 1	22 (112 %R)	21 (107 %R) (5 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
Carbon disulfide	< 2	21 (107 %R)	21 (104 %R) (3 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
Methyl-t-butyl ether(MTBE)	< 1	23 (114 %R)	23 (114 %R) (0 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
Ethyl-t-butyl ether(ETBE)	< 2	23 (114 %R)	23 (114 %R) (0 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
Isopropyl ether(DIPE)	< 2	24 (119 %R)	24 (118 %R) (1 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
tert-amyl methyl ether(TAME)	< 2	22 (111 %R)	22 (112 %R) (1 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
trans-1,2-Dichloroethene	< 1	22 (110 %R)	21 (105 %R) (5 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
1,1-Dichloroethane	< 1	24 (122 %R)	23 (116 %R) (5 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
2,2-Dichloropropane	< 1	25 (125 %R)	23 (115 %R) (8 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
cis-1,2-Dichloroethene	< 1	24 (119 %R)	23 (115 %R) (4 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
2-Butanone(MEK)	< 10	24 (122 %R)	25 (127 %R) (5 RPD)	4/13/2023	ug/L	40 - 160	20	8260C
Bromochloromethane	< 1	22 (109 %R)	22 (111 %R) (2 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
Tetrahydrofuran(THF)	< 10	25 (123 %R)	25 (127 %R) (3 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
Chloroform	< 1	23 (115 %R)	22 (110 %R) (4 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
1,1,1-Trichloroethane	< 1	23 (114 %R)	22 (108 %R) (6 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
Carbon tetrachloride	< 1	23 (116 %R)	22 (110 %R) (6 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
1,1-Dichloropropene	< 1	23 (116 %R)	22 (111 %R) (4 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
Benzene	< 1	23 (114 %R)	22 (110 %R) (3 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
1,2-Dichloroethane	< 1	24 (118 %R)	23 (115 %R) (2 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
Trichloroethene	< 1	22 (111 %R)	22 (109 %R) (3 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
1,2-Dichloropropane	< 1	23 (117 %R)	23 (114 %R) (3 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
Dibromomethane	< 1	23 (116 %R)	23 (114 %R) (1 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
Bromodichloromethane	< 0.5	23 (115 %R)	22 (112 %R) (3 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
1,4-Dioxane	< 50	< 50 (111 %R)	< 50 (132 %R) (17 RPD)	4/13/2023	ug/L	40 - 160	20	8260C
4-Methyl-2-pentanone(MIBK)	< 10	24 (118 %R)	24 (120 %R) (1 RPD)	4/13/2023	ug/L	40 - 160	20	8260C
cis-1,3-Dichloropropene	< 0.5	23 (113 %R)	22 (110 %R) (2 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
Toluene	< 1	24 (118 %R)	23 (114 %R) (4 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
trans-1,3-Dichloropropene	< 0.5	24 (121 %R)	24 (120 %R) (1 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
1,1,2-Trichloroethane	< 1	23 (117 %R)	24 (118 %R) (1 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
2-Hexanone	< 10	24 (119 %R)	26 (128 %R) (7 RPD)	4/13/2023	ug/L	40 - 160	20	8260C
Tetrachloroethene	< 1	23 (114 %R)	22 (110 %R) (4 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
1,3-Dichloropropane	< 1	23 (115 %R)	23 (116 %R) (1 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
Dibromochloromethane	< 1	23 (114 %R)	23 (114 %R) (0 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
1,2-Dibromoethane(EDB)	< 0.5	25 (123 %R)	25 (125 %R) (2 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
Chlorobenzene	< 1	23 (114 %R)	22 (111 %R) (3 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
1,1,1,2-Tetrachloroethane	< 1	23 (115 %R)	23 (114 %R) (1 RPD)	4/13/2023	ug/L	70 - 130	20	8260C



QC REPORT

EAI ID#: 258494

Client: Sanborn, Head & Associates, Inc. (NH)

Batch ID: 638169-91215/A041323V82601

Client Designation: Granite State LF | Groundwater | 1003.24

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
Ethylbenzene	< 1	25 (123 %R)	24 (119 %R) (4 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
mp-Xylene	< 1	46 (114 %R)	44 (111 %R) (3 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
o-Xylene	< 1	22 (112 %R)	22 (111 %R) (1 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
Styrene	< 1	18 (92 %R)	18 (90 %R) (3 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
Bromoform	< 2	22 (109 %R)	22 (112 %R) (2 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
IsoPropylbenzene	< 1	22 (111 %R)	22 (112 %R) (1 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
Bromobenzene	< 1	22 (112 %R)	21 (106 %R) (6 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
1,1,2,2-Tetrachloroethane	< 1	23 (117 %R)	23 (113 %R) (3 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
1,2,3-Trichloropropane	< 0.5	23 (114 %R)	22 (110 %R) (3 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
n-Propylbenzene	< 1	24 (121 %R)	23 (115 %R) (5 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
2-Chlorotoluene	< 1	24 (121 %R)	23 (115 %R) (6 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
4-Chlorotoluene	< 1	24 (121 %R)	23 (116 %R) (4 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
1,3,5-Trimethylbenzene	< 1	23 (114 %R)	22 (112 %R) (2 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
tert-Butylbenzene	< 1	25 (126 %R)	22 (110 %R) (14 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
1,2,4-Trimethylbenzene	< 1	22 (112 %R)	22 (112 %R) (0 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
sec-Butylbenzene	< 1	25 (124 %R)	24 (122 %R) (2 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
1,3-Dichlorobenzene	< 1	22 (112 %R)	22 (109 %R) (2 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
p-Isopropyltoluene	< 1	22 (109 %R)	22 (109 %R) (0 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
1,4-Dichlorobenzene	< 1	21 (106 %R)	21 (104 %R) (2 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
1,2-Dichlorobenzene	< 1	22 (108 %R)	21 (107 %R) (1 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
n-Butylbenzene	< 1	22 (111 %R)	22 (110 %R) (1 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
1,2-Dibromo-3-chloropropane	< 2	22 (109 %R)	22 (109 %R) (0 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
1,3,5-Trichlorobenzene	< 1	22 (108 %R)	22 (108 %R) (0 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
1,2,4-Trichlorobenzene	< 1	22 (110 %R)	21 (107 %R) (3 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
Hexachlorobutadiene	< 0.5	20 (102 %R)	21 (103 %R) (1 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
Naphthalene	< 2	23 (114 %R)	22 (109 %R) (5 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
1,2,3-Trichlorobenzene	< 0.5	22 (112 %R)	22 (109 %R) (3 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
4-Bromofluorobenzene (surr)	91 %R	99 %R	103 %R	4/13/2023	% Rec	70 - 130	20	8260C
1,2-Dichlorobenzene-d4 (surr)	104 %R	95 %R	95 %R	4/13/2023	% Rec	70 - 130	20	8260C
Toluene-d8 (surr)	98 %R	104 %R	102 %R	4/13/2023	% Rec	70 - 130	20	8260C
1,2-Dichloroethane-d4 (surr)	114 %R	106 %R	106 %R	4/13/2023	% Rec	70 - 130	20	8260C

*! Flagged analyte recoveries deviated from the QA/QC limits. Data that impacts sample results are noted on the sample report.



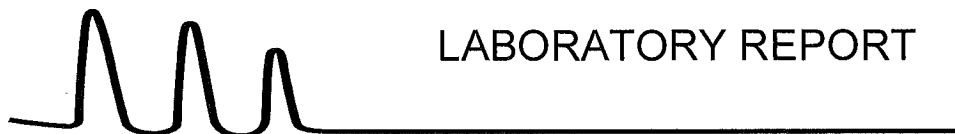
LABORATORY REPORT

EAI ID#: **258494**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Granite State LF | Groundwater | 1003.24**

Sample ID:	MW-3_20230411	MW-19R_20230411	MW-20_20230411	MW-20R_20230411
Lab Sample ID:	258494.01	258494.02	258494.03	258494.04
Matrix:	aqueous	aqueous	aqueous	aqueous
Date Sampled:	4/11/23	4/11/23	4/11/23	4/11/23
Date Received:	4/12/23	4/12/23	4/12/23	4/12/23
Units:	ug/L	ug/L	ug/L	ug/L
Date of Analysis:	4/12/23	4/12/23	4/12/23	4/12/23
Analyst:	MKB	MKB	MKB	MKB
Method:	8260B SIM	8260B SIM	8260B SIM	8260B SIM
Dilution Factor:	1	1	1	1
1,4-Dioxane	< 0.25	< 0.25	< 0.25	< 0.25
4-Bromofluorobenzene (surr)	95 %R	95 %R	94 %R	94 %R
Toluene-d8 (surr)	101 %R	101 %R	101 %R	101 %R



LABORATORY REPORT

EAI ID#: **258494**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Granite State LF | Groundwater | 1003.24**

Sample ID:	MW-25_20230411	MW-28R_20230411	MW-24_20230411	MW-5_20230411
Lab Sample ID:	258494.05	258494.06	258494.07	258494.08
Matrix:	aqueous	aqueous	aqueous	aqueous
Date Sampled:	4/11/23	4/11/23	4/11/23	4/11/23
Date Received:	4/12/23	4/12/23	4/12/23	4/12/23
Units:	ug/L	ug/L	ug/L	ug/L
Date of Analysis:	4/12/23	4/12/23	4/12/23	4/12/23
Analyst:	MKB	MKB	MKB	MKB
Method:	8260B SIM	8260B SIM	8260B SIM	8260B SIM
Dilution Factor:	1	1	1	1
1,4-Dioxane	< 0.25	< 0.25	< 0.25	< 0.25
4-Bromofluorobenzene (surr)	95 %R	93 %R	94 %R	94 %R
Toluene-d8 (surr)	101 %R	101 %R	101 %R	101 %R



LABORATORY REPORT

EAI ID#: **258494**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Granite State LF | Groundwater | 1003.24**

Sample ID:	MW-12_20230411	MW-13_20230411	MW-40_20230411	MW-40R_20230411
Lab Sample ID:	258494.09	258494.1	258494.11	258494.12
Matrix:	aqueous	aqueous	aqueous	aqueous
Date Sampled:	4/11/23	4/11/23	4/11/23	4/11/23
Date Received:	4/12/23	4/12/23	4/12/23	4/12/23
Units:	ug/L	ug/L	ug/L	ug/L
Date of Analysis:	4/12/23	4/12/23	4/12/23	4/12/23
Analyst:	MKB	MKB	MKB	MKB
Method:	8260B SIM	8260B SIM	8260B SIM	8260B SIM
Dilution Factor:	1	1	1	1
1,4-Dioxane	< 0.25	< 0.25	< 0.25	< 0.25
4-Bromofluorobenzene (surr)	93 %R	90 %R	92 %R	92 %R
Toluene-d8 (surr)	101 %R	100 %R	100 %R	100 %R



LABORATORY REPORT

EAI ID#: **258494**

Client: **Sanborn, Head & Associates, Inc. (NH)**
 Client Designation: **Granite State LF | Groundwater | 1003.24**

Sample ID:	MW-41_20230411	MW-41R_20230411	MW-43_20230411	MW-43R_20230411
Lab Sample ID:	258494.13	258494.14	258494.15	258494.16
Matrix:	aqueous	aqueous	aqueous	aqueous
Date Sampled:	4/11/23	4/11/23	4/11/23	4/11/23
Date Received:	4/12/23	4/12/23	4/12/23	4/12/23
Units:	ug/L	ug/L	ug/L	ug/L
Date of Analysis:	4/12/23	4/12/23	4/12/23	4/12/23
Analyst:	MKB	MKB	MKB	MKB
Method:	8260B SIM	8260B SIM	8260B SIM	8260B SIM
Dilution Factor:	1	1	1	1
1,4-Dioxane	< 0.25	< 0.25	< 0.25	< 0.25
4-Bromofluorobenzene (surr)	92 %R	92 %R	92 %R	92 %R
Toluene-d8 (surr)	100 %R	100 %R	100 %R	101 %R



LABORATORY REPORT

EAI ID#: **258494**

Client: **Sanborn, Head & Associates, Inc. (NH)**
Client Designation: **Granite State LF | Groundwater | 1003.24**

Sample ID: TB-LL-GW-02_20230411 GWDUP-1_20230411

Lab Sample ID:	258494.18	258494.19
Matrix:	aqueous	aqueous
Date Sampled:	4/11/23	4/11/23
Date Received:	4/12/23	4/12/23
Units:	ug/L	ug/L
Date of Analysis:	4/12/23	4/12/23
Analyst:	MKB	MKB
Method:	8260B SIM	8260B SIM
Dilution Factor:	1	1
1,4-Dioxane	< 0.25	< 0.25
4-Bromofluorobenzene (surr)	94 %R	91 %R
Toluene-d8 (surr)	101 %R	100 %R



QC REPORT

EAI ID#: **258494**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Batch ID: 638169-04595/A041223DIOX1

Client Designation: **Granite State LF | Groundwater | 1003.24**

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
1,4-Dioxane	< 0.2	4.4 (88 %R)	4.0 (81 %R) (8 RPD)	4/12/2023	ug/L	70 - 130	20	8260B
4-Bromofluorobenzene (surr)	94 %R	94 %R	95 %R	4/12/2023	% Rec	70 - 130	50	8260B
Toluene-d8 (surr)	101 %R	101 %R	102 %R	4/12/2023	% Rec	70 - 130	50	8260B

*! Flagged analyte recoveries deviated from the QA/QC limits. Data that impacts sample results are noted on the sample report.



LABORATORY REPORT

EAI ID#: 258494

Client: Sanborn, Head & Associates, Inc. (NH)

Client Designation: Granite State LF | Groundwater | 1003.24

Sample ID:	MW-19R_20230411	MW-25_20230411	MW-28R_20230411	MW-40_20230411
Lab Sample ID:	258494.02	258494.05	258494.06	258494.11
Matrix:	aqueous	aqueous	aqueous	aqueous
Date Sampled:	4/11/23	4/11/23	4/11/23	4/11/23
Date Received:	4/12/23	4/12/23	4/12/23	4/12/23
Units:	ug/L	ug/L	ug/L	ug/L
Date of Extraction/Prep:	4/13/23	4/13/23	4/13/23	4/13/23
Date of Analysis:	4/13/23	4/13/23	4/13/23	4/13/23
Analyst:	JMR	JMR	JMR	JMR
Method:	8270E	8270E	8270E	8270E
Dilution Factor:	1	1	1	1
alpha-Terpineol	< 5	< 5	< 5	< 5
Phenol	< 1	< 1	< 1	< 1
2-Chlorophenol	< 1	< 1	< 1	< 1
2,4-Dichlorophenol	< 1	< 1	< 1	< 1
2,4,5-Trichlorophenol	< 1	< 1	< 1	< 1
2,4,6-Trichlorophenol	< 1	< 1	< 1	< 1
Pentachlorophenol	< 5	< 5	< 5	< 5
2-Nitrophenol	< 5	< 5	< 5	< 5
4-Nitrophenol	< 5	< 5	< 5	< 5
2,4-Dinitrophenol	< 10	< 10	< 10	< 10
2-Methylphenol	< 1	< 1	< 1	< 1
3/4-Methylphenol	< 1	< 1	< 1	< 1
2,4-Dimethylphenol	< 5	< 5	< 5	< 5
4-Chloro-3-methylphenol	< 1	< 1	< 1	< 1
4,6-Dinitro-2-methylphenol	< 5	< 5	< 5	< 5
Benzoic Acid	< 50	< 50	< 50	< 50
N-Nitrosodimethylamine	< 1	< 1	< 1	< 1
n-Nitroso-di-n-propylamine	< 0.5	< 0.5	< 0.5	< 0.5
n-Nitrosodiphenylamine	< 1	< 1	< 1	< 1
bis(2-Chloroethyl)ether	< 1	< 1	< 1	< 1
bis(2-chloroisopropyl)ether	< 1	< 1	< 1	< 1
bis(2-Chloroethoxy)methane	< 1	< 1	< 1	< 1
1,3-Dichlorobenzene	< 1	< 1	< 1	< 1
Acetophenone	< 10	< 10	< 10	< 10
1,4-Dichlorobenzene	< 1	< 1	< 1	< 1
1,2-Dichlorobenzene	< 1	< 1	< 1	< 1
1,2,4-Trichlorobenzene	< 1	< 1	< 1	< 1
2-Chloronaphthalene	< 1	< 1	< 1	< 1
4-Chlorophenyl-phenylether	< 1	< 1	< 1	< 1
4-Bromophenyl-phenylether	< 1	< 1	< 1	< 1
Hexachloroethane	< 1	< 1	< 1	< 1
Hexachlorobutadiene	< 1	< 1	< 1	< 1
Hexachlorocyclopentadiene	< 5	< 5	< 5	< 5
Hexachlorobenzene	< 1	< 1	< 1	< 1
4-Chloroaniline	< 1	< 1	< 1	< 1
2,3-Dichloroaniline	< 1	< 1	< 1	< 1
2-Nitroaniline	< 5	< 5	< 5	< 5
3-Nitroaniline	< 5	< 5	< 5	< 5
4-Nitroaniline	< 5	< 5	< 5	< 5
Aniline	< 1	< 1	< 1	< 1
Benzyl alcohol	< 10	< 10	< 10	< 10
Nitrobenzene	< 1	< 1	< 1	< 1
Isophorone	< 1	< 1	< 1	< 1
2,4-Dinitrotoluene	< 2	< 2	< 2	< 2
2,6-Dinitrotoluene	< 2	< 2	< 2	< 2
Benzidine (estimated)	< 5	< 5	< 5	< 5
3,3'-Dichlorobenzidine	< 1	< 1	< 1	< 1



LABORATORY REPORT

EAI ID#: **258494**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Granite State LF | Groundwater | 1003.24**

Sample ID:	MW-19R_20230411	MW-25_20230411	MW-28R_20230411	MW-40_20230411
Lab Sample ID:	258494.02	258494.05	258494.06	258494.11
Matrix:	aqueous	aqueous	aqueous	aqueous
Date Sampled:	4/11/23	4/11/23	4/11/23	4/11/23
Date Received:	4/12/23	4/12/23	4/12/23	4/12/23
Units:	ug/L	ug/L	ug/L	ug/L
Date of Extraction/Prep:	4/13/23	4/13/23	4/13/23	4/13/23
Date of Analysis:	4/13/23	4/13/23	4/13/23	4/13/23
Analyst:	JMR	JMR	JMR	JMR
Method:	8270E	8270E	8270E	8270E
Dilution Factor:	1	1	1	1
Pyridine	< 5	< 5	< 5	< 5
Azobenzene	< 1	< 1	< 1	< 1
Carbazole	< 1	< 1	< 1	< 1
Dimethylphthalate	< 1	< 1	< 1	< 1
Diethylphthalate	< 5	< 5	< 5	< 5
Di-n-butylphthalate	< 5	< 5	< 5	< 5
Butylbenzylphthalate	< 5	< 5	< 5	< 5
bis(2-Ethylhexyl)phthalate	< 5	< 5	< 5	< 5
Di-n-octylphthalate	< 5	< 5	< 5	< 5
Dibenzofuran	< 1	< 1	< 1	< 1
Naphthalene	< 0.1	< 0.1	< 0.1	< 0.1
2-Methylnaphthalene	< 0.1	< 0.1	< 0.1	< 0.1
1-Methylnaphthalene	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthene	< 0.1	< 0.1	< 0.1	< 0.1
Fluorene	< 0.1	< 0.1	< 0.1	< 0.1
Phenanthrene	< 0.1	< 0.1	< 0.1	< 0.1
Anthracene	< 0.1	< 0.1	< 0.1	< 0.1
Fluoranthene	< 0.1	< 0.1	< 0.1	< 0.1
Pyrene	< 0.1	< 0.1	< 0.1	< 0.1
Benzo[a]anthracene	< 0.1	< 0.1	< 0.1	< 0.1
Chrysene	< 0.1	< 0.1	< 0.1	< 0.1
Benzo[b]fluoranthene	< 0.1	< 0.1	< 0.1	< 0.1
Benzo[k]fluoranthene	< 0.1	< 0.1	< 0.1	< 0.1
Benzo[a]pyrene	< 0.1	< 0.1	< 0.1	< 0.1
Indeno[1,2,3-cd]pyrene	< 0.1	< 0.1	< 0.1	< 0.1
Dibenz[a,h]anthracene	< 0.1	< 0.1	< 0.1	< 0.1
Benzo[g,h,i]perylene	< 0.1	< 0.1	< 0.1	< 0.1
n-Decane	< 5	< 5	< 5	< 5
n-Octadecane	< 5	< 5	< 5	< 5
2-Fluorophenol (surr)	34 %R	32 %R	34 %R	34 %R
Phenol-d6 (surr)	24 %R	22 %R	24 %R	24 %R
2,4,6-Tribromophenol (surr)	80 %R	77 %R	78 %R	76 %R
Nitrobenzene-D5 (surr)	64 %R	62 %R	66 %R	64 %R
2-Fluorobiphenyl (surr)	73 %R	68 %R	75 %R	70 %R
p-Terphenyl-D14 (surr)	83 %R	86 %R	81 %R	80 %R



LABORATORY REPORT

EAI ID#: 258494

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Granite State LF | Groundwater | 1003.24**

Sample ID: MW-43_20230411

Lab Sample ID: 258494.15
Matrix: aqueous
Date Sampled: 4/11/23
Date Received: 4/12/23
Units: ug/L
Date of Extraction/Prep: 4/13/23
Date of Analysis: 4/13/23
Analyst: JMR
Method: 8270E
Dilution Factor: 1

alpha-Terpineol	< 5
Phenol	< 1
2-Chlorophenol	< 1
2,4-Dichlorophenol	< 1
2,4,5-Trichlorophenol	< 1
2,4,6-Trichlorophenol	< 1
Pentachlorophenol	< 5
2-Nitrophenol	< 5
4-Nitrophenol	< 5
2,4-Dinitrophenol	< 10
2-Methylphenol	< 1
3/4-Methylphenol	< 1
2,4-Dimethylphenol	< 5
4-Chloro-3-methylphenol	< 1
4,6-Dinitro-2-methylphenol	< 5
Benzoic Acid	< 50
N-Nitrosodimethylamine	< 1
n-Nitroso-di-n-propylamine	< 0.5
n-Nitrosodiphenylamine	< 1
bis(2-Chloroethyl)ether	< 1
bis(2-chloroisopropyl)ether	< 1
bis(2-Chloroethoxy)methane	< 1
1,3-Dichlorobenzene	< 1
Acetophenone	< 10
1,4-Dichlorobenzene	< 1
1,2-Dichlorobenzene	< 1
1,2,4-Trichlorobenzene	< 1
2-Chloronaphthalene	< 1
4-Chlorophenyl-phenylether	< 1
4-Bromophenyl-phenylether	< 1
Hexachloroethane	< 1
Hexachlorobutadiene	< 1
Hexachlorocyclopentadiene	< 5
Hexachlorobenzene	< 1
4-Chloroaniline	< 1
2,3-Dichloroaniline	< 1
2-Nitroaniline	< 5
3-Nitroaniline	< 5
4-Nitroaniline	< 5
Aniline	< 1
Benzyl alcohol	< 10
Nitrobenzene	< 1
Isophorone	< 1
2,4-Dinitrotoluene	< 2
2,6-Dinitrotoluene	< 2
Benzidine (estimated)	< 5
3,3'-Dichlorobenzidine	< 1



LABORATORY REPORT

EAI ID#: 258494

Client: Sanborn, Head & Associates, Inc. (NH)

Client Designation: Granite State LF | Groundwater | 1003.24

Sample ID: MW-43_20230411

Lab Sample ID: 258494.15
Matrix: aqueous
Date Sampled: 4/11/23
Date Received: 4/12/23
Units: ug/L
Date of Extraction/Prep: 4/13/23
Date of Analysis: 4/13/23
Analyst: JMR
Method: 8270E
Dilution Factor: 1

Pyridine	< 5
Azobenzene	< 1
Carbazole	< 1
Dimethylphthalate	< 1
Diethylphthalate	< 5
Di-n-butylphthalate	< 5
Butylbenzylphthalate	< 5
bis(2-Ethylhexyl)phthalate	< 5
Di-n-octylphthalate	< 5
Dibenzofuran	< 1
Naphthalene	< 0.1
2-Methylnaphthalene	< 0.1
1-Methylnaphthalene	< 0.1
Acenaphthylene	< 0.1
Acenaphthene	< 0.1
Fluorene	< 0.1
Phenanthrene	< 0.1
Anthracene	< 0.1
Fluoranthene	< 0.1
Pyrene	< 0.1
Benzo[a]anthracene	< 0.1
Chrysene	< 0.1
Benzo[b]fluoranthene	< 0.1
Benzo[k]fluoranthene	< 0.1
Benzo[a]pyrene	< 0.1
Indeno[1,2,3-cd]pyrene	< 0.1
Dibenz[a,h]anthracene	< 0.1
Benzo[g,h,i]perylene	< 0.1
n-Decane	< 5
n-Octadecane	< 5
2-Fluorophenol (surr)	38 %R
Phenol-d6 (surr)	26 %R
2,4,6-Tribromophenol (surr)	78 %R
Nitrobenzene-D5 (surr)	71 %R
2-Fluorobiphenyl (surr)	78 %R
p-Terphenyl-D14 (surr)	82 %R



QC REPORT

EAI ID#: 258494

Client: Sanborn, Head & Associates, Inc. (NH)

Batch ID: 638169-68032/A041323ABN1

Client Designation: Granite State LF | Groundwater | 1003.24

Parameter Name	Blank	LCS	LCS D	Analysis Date	Units	Limits	RPD	Method
alpha-Terpineol	< 5	18 (74 %R)	18 (73 %R) (1 RPD)	4/13/2023	ug/L	40 - 140	20	8270E
Phenol	< 1	14 (28 %R)	14 (27 %R) (2 RPD)	4/13/2023	ug/L	15 - 130	20	8270E
2-Chlorophenol	< 1	32 (64 %R)	31 (61 %R) (4 RPD)	4/13/2023	ug/L	30 - 130	20	8270E
2,4-Dichlorophenol	< 1	36 (72 %R)	36 (71 %R) (1 RPD)	4/13/2023	ug/L	30 - 130	20	8270E
2,4,5-Trichlorophenol	< 1	39 (79 %R)	39 (78 %R) (1 RPD)	4/13/2023	ug/L	30 - 130	20	8270E
2,4,6-Trichlorophenol	< 1	39 (79 %R)	39 (78 %R) (1 RPD)	4/13/2023	ug/L	30 - 130	20	8270E
Pentachlorophenol	< 5	41 (81 %R)	41 (82 %R) (1 RPD)	4/13/2023	ug/L	30 - 130	20	8270E
2-Nitrophenol	< 5	39 (78 %R)	39 (77 %R) (1 RPD)	4/13/2023	ug/L	30 - 130	20	8270E
4-Nitrophenol	< 5	16 (32 %R)	16 (32 %R) (1 RPD)	4/13/2023	ug/L	15 - 130	20	8270E
2,4-Dinitrophenol	< 10	39 (77 %R)	39 (79 %R) (2 RPD)	4/13/2023	ug/L	15 - 130	20	8270E
2-Methylphenol	< 1	29 (58 %R)	29 (57 %R) (1 RPD)	4/13/2023	ug/L	30 - 130	20	8270E
3/4-Methylphenol	< 1	29 (57 %R)	29 (58 %R) (0 RPD)	4/13/2023	ug/L	30 - 130	20	8270E
2,4-Dimethylphenol	< 5	32 (63 %R)	33 (65 %R) (3 RPD)	4/13/2023	ug/L	30 - 130	20	8270E
4-Chloro-3-methylphenol	< 1	37 (75 %R)	38 (75 %R) (0 RPD)	4/13/2023	ug/L	30 - 130	20	8270E
4,6-Dinitro-2-methylphenol	< 5	49 (97 %R)	50 (99 %R) (2 RPD)	4/13/2023	ug/L	30 - 130	20	8270E
Benzoic Acid	< 50	< 50 (20 %R)	< 50 (21 %R) (4 RPD)	4/13/2023	ug/L	15 - 130	20	8270E
N-Nitrosodimethylamine	< 1	12 (46 %R)	11 (46 %R) (1 RPD)	4/13/2023	ug/L	15 - 140	20	8270E
n-Nitroso-di-n-propylamine	< 0.5	17 (70 %R)	18 (70 %R) (1 RPD)	4/13/2023	ug/L	40 - 140	20	8270E
n-Nitrosodiphenylamine	< 1	20 (81 %R)	20 (79 %R) (3 RPD)	4/13/2023	ug/L	40 - 140	20	8270E
bis(2-Chloroethyl)ether	< 1	16 (66 %R)	16 (64 %R) (3 RPD)	4/13/2023	ug/L	40 - 140	20	8270E
bis(2-chloroisopropyl)ether	< 1	15 (61 %R)	15 (60 %R) (2 RPD)	4/13/2023	ug/L	40 - 140	20	8270E
bis(2-Chloroethoxy)methane	< 1	18 (72 %R)	18 (71 %R) (1 RPD)	4/13/2023	ug/L	40 - 140	20	8270E
1,3-Dichlorobenzene	< 1	15 (60 %R)	14 (57 %R) (5 RPD)	4/13/2023	ug/L	40 - 140	20	8270E
Acetophenone	< 10	18 (71 %R)	18 (71 %R) (1 RPD)	4/13/2023	ug/L	40 - 140	20	8270E
1,4-Dichlorobenzene	< 1	15 (60 %R)	15 (58 %R) (4 RPD)	4/13/2023	ug/L	40 - 140	20	8270E
1,2-Dichlorobenzene	< 1	15 (62 %R)	15 (59 %R) (4 RPD)	4/13/2023	ug/L	40 - 140	20	8270E
1,2,4-Trichlorobenzene	< 1	17 (67 %R)	16 (64 %R) (4 RPD)	4/13/2023	ug/L	40 - 140	20	8270E
2-Chloronaphthalene	< 1	18 (74 %R)	18 (72 %R) (2 RPD)	4/13/2023	ug/L	40 - 140	20	8270E
4-Chlorophenyl-phenylether	< 1	19 (77 %R)	19 (76 %R) (1 RPD)	4/13/2023	ug/L	40 - 140	20	8270E
4-Bromophenyl-phenylether	< 1	20 (81 %R)	20 (81 %R) (0 RPD)	4/13/2023	ug/L	40 - 140	20	8270E
Hexachloroethane	< 1	15 (59 %R)	14 (56 %R) (5 RPD)	4/13/2023	ug/L	40 - 140	20	8270E
Hexachlorobutadiene	< 1	16 (66 %R)	16 (63 %R) (4 RPD)	4/13/2023	ug/L	40 - 140	20	8270E
Hexachlorocyclopentadiene	< 5	13 (54 %R)	13 (51 %R) (4 RPD)	4/13/2023	ug/L	15 - 140	20	8270E
Hexachlorobenzene	< 1	20 (82 %R)	20 (82 %R) (0 RPD)	4/13/2023	ug/L	40 - 140	20	8270E
4-Chloroaniline	< 1	19 (75 %R)	19 (76 %R) (1 RPD)	4/13/2023	ug/L	15 - 140	20	8270E
2,3-Dichloroaniline	< 1	19 (78 %R)	19 (77 %R) (2 RPD)	4/13/2023	ug/L	40 - 140	20	8270E
2-Nitroaniline	< 5	20 (79 %R)	20 (79 %R) (1 RPD)	4/13/2023	ug/L	40 - 140	20	8270E
3-Nitroaniline	< 5	20 (81 %R)	20 (81 %R) (0 RPD)	4/13/2023	ug/L	40 - 140	20	8270E
4-Nitroaniline	< 5	21 (82 %R)	20 (81 %R) (1 RPD)	4/13/2023	ug/L	40 - 140	20	8270E
Aniline	< 1	16 (64 %R)	16 (65 %R) (2 RPD)	4/13/2023	ug/L	40 - 140	20	8270E
Benzyl alcohol	< 10	16 (65 %R)	16 (65 %R) (0 RPD)	4/13/2023	ug/L	40 - 140	20	8270E
Nitrobenzene	< 1	17 (68 %R)	17 (67 %R) (3 RPD)	4/13/2023	ug/L	40 - 140	20	8270E
Isophorone	< 1	19 (74 %R)	19 (75 %R) (1 RPD)	4/13/2023	ug/L	40 - 140	20	8270E
2,4-Dinitrotoluene	< 2	22 (88 %R)	22 (86 %R) (2 RPD)	4/13/2023	ug/L	40 - 140	20	8270E
2,6-Dinitrotoluene	< 2	21 (83 %R)	21 (83 %R) (1 RPD)	4/13/2023	ug/L	40 - 140	20	8270E
Benzidine (estimated)	< 5	11 (46 %R)	9.9 (39 %R) (15 RPD)	4/13/2023	ug/L	1 - 200	50	8270E



QC REPORT

EAI ID#: 258494

Client: Sanborn, Head & Associates, Inc. (NH)

Batch ID: 638169-68032/A041323ABN1

Client Designation: Granite State LF | Groundwater | 1003.24

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
3,3'-Dichlorobenzidine	< 1	22 (88 %R)	22 (87 %R) (1 RPD)	4/13/2023	ug/L	40 - 140	20	8270E
Pyridine	< 5	9.1 (36 %R)	10 (40 %R) (10 RPD)	4/13/2023	ug/L	15 - 140	20	8270E
Azobenzene	< 1	19 (77 %R)	19 (77 %R) (0 RPD)	4/13/2023	ug/L	40 - 140	20	8270E
Carbazole	< 1	21 (86 %R)	21 (85 %R) (0 RPD)	4/13/2023	ug/L	40 - 140	20	8270E
Dimethylphthalate	< 1	21 (83 %R)	21 (83 %R) (0 RPD)	4/13/2023	ug/L	40 - 140	20	8270E
Diethylphthalate	< 5	22 (87 %R)	21 (85 %R) (2 RPD)	4/13/2023	ug/L	40 - 140	20	8270E
Di-n-butylphthalate	< 5	23 (91 %R)	23 (90 %R) (0 RPD)	4/13/2023	ug/L	40 - 140	20	8270E
Butylbenzylphthalate	< 5	24 (97 %R)	24 (97 %R) (0 RPD)	4/13/2023	ug/L	40 - 140	20	8270E
bis(2-Ethylhexyl)phthalate	< 5	23 (91 %R)	23 (91 %R) (0 RPD)	4/13/2023	ug/L	40 - 140	20	8270E
Di-n-octylphthalate	< 5	24 (95 %R)	24 (95 %R) (1 RPD)	4/13/2023	ug/L	40 - 140	20	8270E
Dibenzofuran	< 1	19 (75 %R)	19 (74 %R) (1 RPD)	4/13/2023	ug/L	40 - 140	20	8270E
Naphthalene	< 0.1	17 (68 %R)	17 (67 %R) (2 RPD)	4/13/2023	ug/L	40 - 140	20	8270E
2-Methylnaphthalene	< 0.1	18 (71 %R)	18 (71 %R) (1 RPD)	4/13/2023	ug/L	40 - 140	20	8270E
1-Methylnaphthalene	< 0.1	18 (70 %R)	17 (69 %R) (2 RPD)	4/13/2023	ug/L	40 - 140	20	8270E
Acenaphthylene	< 0.1	17 (69 %R)	17 (68 %R) (2 RPD)	4/13/2023	ug/L	40 - 140	20	8270E
Acenaphthene	< 0.1	19 (74 %R)	18 (73 %R) (1 RPD)	4/13/2023	ug/L	40 - 140	20	8270E
Fluorene	< 0.1	19 (74 %R)	18 (73 %R) (1 RPD)	4/13/2023	ug/L	40 - 140	20	8270E
Phenanthrene	< 0.1	19 (77 %R)	19 (77 %R) (0 RPD)	4/13/2023	ug/L	40 - 140	20	8270E
Anthracene	< 0.1	20 (78 %R)	19 (78 %R) (0 RPD)	4/13/2023	ug/L	40 - 140	20	8270E
Fluoranthene	< 0.1	20 (78 %R)	20 (79 %R) (0 RPD)	4/13/2023	ug/L	40 - 140	20	8270E
Pyrene	< 0.1	20 (81 %R)	20 (81 %R) (0 RPD)	4/13/2023	ug/L	40 - 140	20	8270E
Benzo[a]anthracene	< 0.1	19 (77 %R)	19 (77 %R) (1 RPD)	4/13/2023	ug/L	40 - 140	20	8270E
Chrysene	< 0.1	20 (81 %R)	20 (80 %R) (1 RPD)	4/13/2023	ug/L	40 - 140	20	8270E
Benzo[b]fluoranthene	< 0.1	21 (84 %R)	21 (83 %R) (1 RPD)	4/13/2023	ug/L	40 - 140	20	8270E
Benzo[k]fluoranthene	< 0.1	22 (86 %R)	22 (86 %R) (0 RPD)	4/13/2023	ug/L	40 - 140	20	8270E
Benzo[a]pyrene	< 0.1	21 (82 %R)	20 (81 %R) (1 RPD)	4/13/2023	ug/L	40 - 140	20	8270E
Indeno[1,2,3-cd]pyrene	< 0.1	21 (83 %R)	20 (82 %R) (1 RPD)	4/13/2023	ug/L	40 - 140	20	8270E
Dibenz[a,h]anthracene	< 0.1	20 (81 %R)	20 (80 %R) (1 RPD)	4/13/2023	ug/L	40 - 140	20	8270E
Benzo[g,h,i]perylene	< 0.1	21 (82 %R)	20 (82 %R) (1 RPD)	4/13/2023	ug/L	40 - 140	20	8270E
n-Decane	< 5	14 (56 %R)	13 (54 %R) (5 RPD)	4/13/2023	ug/L	40 - 140	20	8270E
n-Octadecane	< 5	21 (84 %R)	21 (84 %R) (0 RPD)	4/13/2023	ug/L	40 - 140	20	8270E
2-Fluorophenol (surr)	38 %R	38 %R	37 %R	4/13/2023	% Rec	15 - 110		8270E
Phenol-d6 (surr)	27 %R	27 %R	27 %R	4/13/2023	% Rec	15 - 110		8270E
2,4,6-Tribromophenol (surr)	83 %R	87 %R	87 %R	4/13/2023	% Rec	15 - 110		8270E
Nitrobenzene-D5 (surr)	68 %R	70 %R	69 %R	4/13/2023	% Rec	30 - 130		8270E
2-Fluorobiphenyl (surr)	75 %R	74 %R	73 %R	4/13/2023	% Rec	30 - 130		8270E
p-Terphenyl-D14 (surr)	83 %R	86 %R	86 %R	4/13/2023	% Rec	30 - 130		8270E

*// Flagged analyte recoveries deviated from the QA/QC limits. Data that impacts sample results are noted on the sample report.



LABORATORY REPORT

EAI ID#: **258494**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Granite State LF | Groundwater | 1003.24**

Sample ID:	MW-3_20230411	MW-19R_20230411	MW-20_20230411	MW-20R_20230411
Lab Sample ID:	258494.01	258494.02	258494.03	258494.04
Matrix:	aqueous	aqueous	aqueous	aqueous
Date Sampled:	4/11/23	4/11/23	4/11/23	4/11/23
Date Received:	4/12/23	4/12/23	4/12/23	4/12/23
Units:	ug/L	ug/L	ug/L	ug/L
Date of Extraction/Prep:	4/14/23	4/14/23	4/14/23	4/14/23
Date of Analysis:	4/14/23	4/14/23	4/14/23	4/14/23
Analyst:	AR	AR	AR	AR
Method:	8011/504	8011/504	8011/504	8011/504
Dilution Factor:	1	1	1	1
1,2-Dibromoethane(EDB)	< 0.02	< 0.02	< 0.02	< 0.02
Dibromochloropropane (DBCP)	< 0.02	< 0.02	< 0.02	< 0.02
1,1,1,2-Tetrachloroethane (surr)	93 %R	89 %R	92 %R	93 %R



LABORATORY REPORT

EAI ID#: **258494**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Granite State LF | Groundwater | 1003.24**

Sample ID:	MW-25_20230411	MW-28R_20230411	MW-24_20230411	MW-5_20230411
Lab Sample ID:	258494.05	258494.06	258494.07	258494.08
Matrix:	aqueous	aqueous	aqueous	aqueous
Date Sampled:	4/11/23	4/11/23	4/11/23	4/11/23
Date Received:	4/12/23	4/12/23	4/12/23	4/12/23
Units:	ug/L	ug/L	ug/L	ug/L
Date of Extraction/Prep:	4/14/23	4/14/23	4/14/23	4/14/23
Date of Analysis:	4/14/23	4/14/23	4/14/23	4/14/23
Analyst:	AR	AR	AR	AR
Method:	8011/504	8011/504	8011/504	8011/504
Dilution Factor:	1	1	1	1
1,2-Dibromoethane(EDB)	< 0.02	< 0.02	< 0.02	< 0.02
Dibromochloropropane (DBCP)	< 0.02	< 0.02	< 0.02	< 0.02
1,1,1,2-Tetrachloroethane (surr)	89 %R	89 %R	90 %R	92 %R



LABORATORY REPORT

EAI ID#: **258494**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Granite State LF | Groundwater | 1003.24**

Sample ID:	MW-12_20230411	MW-13_20230411	MW-40_20230411	MW-40R_20230411
Lab Sample ID:	258494.09	258494.1	258494.11	258494.12
Matrix:	aqueous	aqueous	aqueous	aqueous
Date Sampled:	4/11/23	4/11/23	4/11/23	4/11/23
Date Received:	4/12/23	4/12/23	4/12/23	4/12/23
Units:	ug/L	ug/L	ug/L	ug/L
Date of Extraction/Prep:	4/14/23	4/14/23	4/14/23	4/14/23
Date of Analysis:	4/14/23	4/14/23	4/14/23	4/14/23
Analyst:	AR	AR	AR	AR
Method:	8011/504	8011/504	8011/504	8011/504
Dilution Factor:	1	1	1	1
1,2-Dibromoethane(EDB)	< 0.02	< 0.02	< 0.02	< 0.02
Dibromochloropropane (DBCP)	< 0.02	< 0.02	< 0.02	< 0.02
1,1,1,2-Tetrachloroethane (surr)	89 %R	91 %R	94 %R	92 %R



LABORATORY REPORT

EAI ID#: **258494**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Granite State LF | Groundwater | 1003.24**

Sample ID:	MW-41_20230411	MW-41R_20230411	MW-43_20230411	MW-43R_20230411
Lab Sample ID:	258494.13	258494.14	258494.15	258494.16
Matrix:	aqueous	aqueous	aqueous	aqueous
Date Sampled:	4/11/23	4/11/23	4/11/23	4/11/23
Date Received:	4/12/23	4/12/23	4/12/23	4/12/23
Units:	ug/L	ug/L	ug/L	ug/L
Date of Extraction/Prep:	4/14/23	4/14/23	4/14/23	4/14/23
Date of Analysis:	4/14/23	4/14/23	4/14/23	4/14/23
Analyst:	AR	AR	AR	AR
Method:	8011/504	8011/504	8011/504	8011/504
Dilution Factor:	1	1	1	1
1,2-Dibromoethane(EDB)	< 0.02	< 0.02	< 0.02	< 0.02
Dibromochloropropane (DBCP)	< 0.02	< 0.02	< 0.02	< 0.02
1,1,1,2-Tetrachloroethane (surr)	93 %R	93 %R	91 %R	92 %R



LABORATORY REPORT

EAI ID#: **258494**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Granite State LF | Groundwater | 1003.24**

Sample ID: GWDUP-1_20230411

Lab Sample ID: 258494.19
Matrix: aqueous
Date Sampled: 4/11/23
Date Received: 4/12/23
Units: ug/L
Date of Extraction/Prep: 4/14/23
Date of Analysis: 4/14/23
Analyst: AR
Method: 8011/504
Dilution Factor: 1
1,2-Dibromoethane(EDB) < 0.02
Dibromochloropropane (DBCP) < 0.02
1,1,1,2-Tetrachloroethane (surr) **91 %R**



QC REPORT

EAI ID#: **258494**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Batch ID: 638170-55962/A041423E5041

Client Designation: **Granite State LF | Groundwater | 1003.24**

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
1,2-Dibromoethane(EDB)	< 0.02	0.092 (92 %R)	0.092 (92 %R) (0 RPD)	4/14/2023	ug/L	70 - 130	20	8011/504
Dibromochloropropane (DBCP)	< 0.02	0.094 (94 %R)	0.098 (98 %R) (4 RPD)	4/14/2023	ug/L	70 - 130	20	8011/504
1,1,1,2-Tetrachloroethane (surr)	76 %R	79 %R	85 %R	4/14/2023	% Rec	65 - 135	20	8011/504



LABORATORY REPORT

EAI ID#: 258494

Client: Sanborn, Head & Associates, Inc. (NH)

Client Designation: Granite State LF | Groundwater | 1003.24

Sample ID:	MW-3_20230411	MW -19R_20230411	MW -20_20230411	MW -20R_20230411		Analysis			
Lab Sample ID:	258494.01	258494.02	258494.03	258494.04	Units	Date	Time	Method	Analyst
Matrix:	aqueous	aqueous	aqueous	aqueous					
Date Sampled:	4/11/23	4/11/23	4/11/23	4/11/23					
Date Received:	4/12/23	4/12/23	4/12/23	4/12/23					
Sulfate	3.1	8.5	4.8	4.9	mg/L	04/14/23	2:11	300.0	ALM
Chloride	< 1	< 1	< 1	< 1	mg/L	04/12/23	13:26	4500CIE-11	ALM
Nitrate-N	< 0.5	< 0.5	< 0.5	< 0.5	mg/L	04/12/23	13:26	353.2	ALM
TKN	< 0.5	< 0.5	< 0.5	< 0.5	mg/L	04/13/23	16:30	4500N _{org} C/NH3D	PEN
COD	< 10	< 10	< 10	< 10	mg/L	04/12/23	15:20	H8000	JCS
Dissolved Organic Carbon	1.1	1.0	0.95	0.89	mg/L	04/17/23	11:15	5310C-11	LO

Sample ID:	MW-25_20230411	MW -28R_20230411	MW -24_20230411	MW -5_20230411		Analysis			
Lab Sample ID:	258494.05	258494.06	258494.07	258494.08	Units	Date	Time	Method	Analyst
Matrix:	aqueous	aqueous	aqueous	aqueous					
Date Sampled:	4/11/23	4/11/23	4/11/23	4/11/23					
Date Received:	4/12/23	4/12/23	4/12/23	4/12/23					
Sulfate	2.5	7.2	2.1	4.5	mg/L	04/14/23	4:21	300.0	ALM
Chloride	< 1	< 1	< 1	< 1	mg/L	04/12/23	13:31	4500CIE-11	ALM
Nitrate-N	< 0.5	< 0.5	< 0.5	< 0.5	mg/L	04/12/23	13:31	353.2	ALM
TKN	< 0.5	< 0.5	< 0.5	< 0.5	mg/L	04/13/23	16:41	4500N _{org} C/NH3D	PEN
COD	< 10	< 10	< 10	< 10	mg/L	04/12/23	15:20	H8000	JCS
Dissolved Organic Carbon	0.87	0.93	1.5	5.8	mg/L	04/17/23	12:08	5310C-11	LO



LABORATORY REPORT

EAI ID#: 258494

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Granite State LF | Groundwater | 1003.24**

Sample ID:	MW-12_20230411	MW -13_20230411	MW -40_20230411	MW -40R_20230411		Analysis				
					1	Units	Date	Time	Method	Analyst
Lab Sample ID:	258494.09	258494.1	258494.11	258494.12						
Matrix:	aqueous	aqueous	aqueous	aqueous						
Date Sampled:	4/11/23	4/11/23	4/11/23	4/11/23						
Date Received:	4/12/23	4/12/23	4/12/23	4/12/23						
Sulfate	3.9	2.9	6.9	4.7		mg/L	04/14/23	5:18	300.0	ALM
Chloride	< 1	< 1	< 1	< 1		mg/L	04/12/23	13:37	4500CIE-11	ALM
Nitrate-N	< 0.5	< 0.5	< 0.5	< 0.5		mg/L	04/12/23	13:37	353.2	ALM
TKN	< 0.5	< 0.5	< 0.5	< 0.5		mg/L	04/13/23	16:52	4500N _{org} C/NH3D	PEN
COD	< 10	< 10	< 10	< 10		mg/L	04/12/23	15:20	H8000	JCS
Dissolved Organic Carbon	1.0	1.4	2.1	0.69		mg/L	04/17/23	13:02	5310C-11	LO

Sample ID:	MW-41_20230411	MW -41R_20230411	MW -43_20230411	MW -43R_20230411		Analysis				
		1			1	Units	Date	Time	Method	Analyst
Lab Sample ID:	258494.13	258494.14	258494.15	258494.16						
Matrix:	aqueous	aqueous	aqueous	aqueous						
Date Sampled:	4/11/23	4/11/23	4/11/23	4/11/23						
Date Received:	4/12/23	4/12/23	4/12/23	4/12/23						
Sulfate	3.5	5.3	2.6	4.9		mg/L	04/14/23	7:28	300.0	ALM
Chloride	< 1	< 1	< 1	< 1		mg/L	04/12/23	13:55	4500CIE-11	ALM
Nitrate-N	< 0.5	< 0.5	2.5	< 0.5		mg/L	04/12/23	13:55	353.2	ALM
TKN	< 0.5	< 0.5	< 0.5	< 0.5		mg/L	04/13/23	17:16	4500N _{org} C/NH3D	PEN
COD	< 10	< 10	< 10	< 10		mg/L	04/12/23	15:20	H8000	JCS
Dissolved Organic Carbon	2.6	0.98	1.6	0.85		mg/L	04/17/23	14:51	5310C-11	LO



LABORATORY REPORT

EAI ID#: 258494

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Granite State LF | Groundwater | 1003.24**

Sample ID: GWDUP
-1_20230411

Lab Sample ID: 258494.19

Matrix: aqueous

Date Sampled: 4/11/23

Date Received: 4/12/23

Sulfate	2.8
Chloride	< 1
Nitrate-N	< 0.5
TKN	< 0.5
COD	< 10
Dissolved Organic Carbon	1.1

Units	Analysis		Method	Analyst
	Date	Time		
mg/L	4/14/23	8:26	300.0	ALM
mg/L	4/12/23	14:01	4500CIE-11	ALM
mg/L	4/12/23	14:01	353.2	ALM
mg/L	4/13/23	17:27	4500N _{ox} C/NH3D	PEN
mg/L	4/12/23	15:20	H8000	JCS
mg/L	4/17/23	15:45	5310C-11	LO



QC REPORT

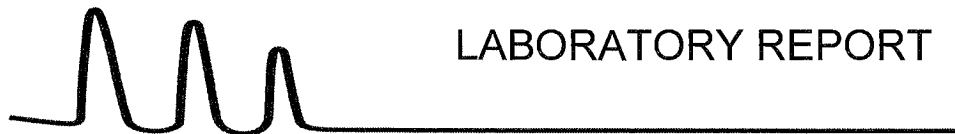
EAI ID#: 258494

Client: Sanborn, Head & Associates, Inc. (NH)

Client Designation: Granite State LF | Groundwater | 1003.24

Parameter Name	Blank	LCS	LCSD	Units	Date of Analysis	Limits	RPD	Method
Sulfate	< 1	21 (103 %R)	21 (103 %R) (1 RPD)	mg/L	4/14/23	90 - 110	20	300.0
Chloride	< 1	27 (108 %R)	27 (107 %R) (1 RPD)	mg/L	4/12/23	90 - 110	20	4500CIE-11
Nitrate-N	< 0.5	5.0 (100 %R)	4.8 (95 %R) (5 RPD)	mg/L	4/12/23	90 - 110	20	353.2
TKN	< 0.5	11 (106 %R)	11 (109 %R) (2 RPD)	mg/L	4/13/23	90 - 111	20	4500N _{org} C/NH3D-11
COD	< 10	100 (104 %R)	100 (103 %R) (1 RPD)	mg/L	4/12/23	85 - 115	20	H8000
Dissolved Organic Carbon	< 0.5	5.1 (103 %R)	5.1 (102 %R) (1 RPD)	mg/L	4/17/23	90 - 110	20	5310C-11

*! Flagged analyte recoveries deviated from the QA/QC limits. Unless noted, flagged data does not impact the sample data.



LABORATORY REPORT

EAI ID#: 258494

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Granite State LF | Groundwater | 1003.24**

Sample ID: MW-20_20230411 MW
-5_20230411

Lab Sample ID: 258494.03 258494.08

Matrix: aqueous aqueous

Date Sampled: 4/11/23 4/11/23

Date Received: 4/12/23 4/12/23

Iron < 0.05 0.21
Manganese < 0.005 4.0

Analytical Matrix	Units	Date of Analysis	Method	Analyst
AqDis	mg/L	4/14/23	200.8	DS
AqDis	mg/L	4/14/23	200.8	DS

Sample ID: MW
-20R_20230411

Lab Sample ID: 258494.04

Matrix: aqueous

Date Sampled: 4/11/23

Date Received: 4/12/23

Iron 0.11
Manganese 0.012

Analytical Matrix	Units	Date of Analysis	Method	Analyst
AqTot	mg/L	4/14/23	200.8	DS
AqTot	mg/L	4/14/23	200.8	DS



LABORATORY REPORT

EAI ID#: **258494**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Granite State LF | Groundwater | 1003.24**

Sample ID:	MW-3_20230411	MW -25_20230411	MW -24_20230411	MW -12_20230411					
Lab Sample ID:	258494.01	258494.05	258494.07	258494.09					
Matrix:	aqueous	aqueous	aqueous	aqueous					
Date Sampled:	4/11/23	4/11/23	4/11/23	4/11/23	Analytical	Date of			
Date Received:	4/12/23	4/12/23	4/12/23	4/12/23	Matrix	Units	Analysis	Method	Analyst
Aluminum	< 0.05	< 0.05	0.12	< 0.05	AqDis	mg/L	4/14/23	200.8	DS
Antimony	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	4/14/23	200.8	DS
Arsenic	< 0.0005	< 0.0005	< 0.0005	< 0.0005	AqDis	mg/L	4/14/23	200.8	DS
Barium	0.012	0.0053	0.0066	0.011	AqDis	mg/L	4/14/23	200.8	DS
Beryllium	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	4/14/23	200.8	DS
Calcium	5.8	2.2	1.6	5.3	AqDis	mg/L	4/14/23	200.8	DS
Cadmium	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	4/14/23	200.8	DS
Chromium	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	4/14/23	200.8	DS
Copper	0.0024	< 0.001	0.0020	0.0012	AqDis	mg/L	4/14/23	200.8	DS
Iron	< 0.05	< 0.05	< 0.05	< 0.05	AqDis	mg/L	4/14/23	200.8	DS
Lead	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	4/14/23	200.8	DS
Manganese	< 0.005	0.0068	< 0.005	< 0.005	AqDis	mg/L	4/14/23	200.8	DS
Nickel	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	4/14/23	200.8	DS
Selenium	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	4/14/23	200.8	DS
Silver	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	4/14/23	200.8	DS
Thallium	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	4/14/23	200.8	DS
Zinc	0.0078	0.014	< 0.005	< 0.005	AqDis	mg/L	4/14/23	200.8	DS



LABORATORY REPORT

EAI ID#: 258494

Client: Sanborn, Head & Associates, Inc. (NH)

Client Designation: Granite State LF | Groundwater | 1003.24

Sample ID:	MW-13_20230411	MW -40_20230411	MW -41_20230411	MW -43_20230411					
Lab Sample ID:	258494.1	258494.11	258494.13	258494.15	Matrix	Units	Date of Analysis	Method	Analyst
Matrix:	aqueous	aqueous	aqueous	aqueous					
Date Sampled:	4/11/23	4/11/23	4/11/23	4/11/23					
Date Received:	4/12/23	4/12/23	4/12/23	4/12/23					
Aluminum	< 0.05	< 0.05	0.080	0.15	AqDis	mg/L	4/14/23	200.8	DS
Antimony	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	4/14/23	200.8	DS
Arsenic	< 0.0005	< 0.0005	< 0.0005	< 0.0005	AqDis	mg/L	4/14/23	200.8	DS
Barium	0.010	0.013	0.012	0.034	AqDis	mg/L	4/14/23	200.8	DS
Beryllium	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	4/14/23	200.8	DS
Calcium	1.8	9.7	6.6	4.7	AqDis	mg/L	4/14/23	200.8	DS
Cadmium	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	4/14/23	200.8	DS
Chromium	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	4/14/23	200.8	DS
Copper	< 0.001	0.0019	< 0.001	0.0020	AqDis	mg/L	4/14/23	200.8	DS
Iron	< 0.05	< 0.05	< 0.05	< 0.05	AqDis	mg/L	4/14/23	200.8	DS
Lead	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	4/14/23	200.8	DS
Manganese	< 0.005	0.014	0.0082	0.019	AqDis	mg/L	4/14/23	200.8	DS
Nickel	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	4/14/23	200.8	DS
Selenium	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	4/14/23	200.8	DS
Silver	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	4/14/23	200.8	DS
Thallium	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	4/14/23	200.8	DS
Zinc	< 0.005	< 0.005	< 0.005	< 0.005	AqDis	mg/L	4/14/23	200.8	DS



LABORATORY REPORT

EAI ID#: 258494

Client: Sanborn, Head & Associates, Inc. (NH)

Client Designation: Granite State LF | Groundwater | 1003.24

Sample ID:	MW-19R_20230411	MW -28R_202304	MW -40R_2023041	MW -41R_2023041					
Lab Sample ID:	258494.02	258494.06	258494.12	258494.14					
Matrix:	aqueous	aqueous	aqueous	aqueous					
Date Sampled:	4/11/23	4/11/23	4/11/23	4/11/23	Analytical		Date of		
Date Received:	4/12/23	4/12/23	4/12/23	4/12/23	Matrix	Units	Analysis	Method	Analyst
Aluminum	0.16	0.38	0.15	28	AqTot	mg/L	4/14/23	200.8	DS
Antimony	< 0.001	< 0.001	< 0.001	< 0.001	AqTot	mg/L	4/14/23	200.8	DS
Arsenic	< 0.0005	0.00060	< 0.0005	0.0048	AqTot	mg/L	4/14/23	200.8	DS
Barium	0.0097	0.13	0.013	0.55	AqTot	mg/L	4/14/23	200.8	DS
Beryllium	< 0.001	< 0.001	< 0.001	0.0015	AqTot	mg/L	4/14/23	200.8	DS
Calcium	24	22	15	17	AqTot	mg/L	4/14/23	200.8	DS
Cadmium	< 0.001	< 0.001	< 0.001	< 0.001	AqTot	mg/L	4/14/23	200.8	DS
Chromium	< 0.001	< 0.001	< 0.001	0.047	AqTot	mg/L	4/14/23	200.8	DS
Copper	0.0011	< 0.001	< 0.001	0.053	AqTot	mg/L	4/14/23	200.8	DS
Iron	0.14	0.40	0.16	41	AqTot	mg/L	4/14/23	200.8	DS
Lead	< 0.001	< 0.001	< 0.001	0.024	AqTot	mg/L	4/14/23	200.8	DS
Manganese	0.027	0.065	< 0.005	2.7	AqTot	mg/L	4/14/23	200.8	DS
Nickel	< 0.001	< 0.001	< 0.001	0.041	AqTot	mg/L	4/14/23	200.8	DS
Selenium	< 0.001	< 0.001	< 0.001	< 0.001	AqTot	mg/L	4/14/23	200.8	DS
Silver	< 0.001	< 0.001	< 0.001	< 0.001	AqTot	mg/L	4/14/23	200.8	DS
Thallium	< 0.001	< 0.001	< 0.001	< 0.001	AqTot	mg/L	4/14/23	200.8	DS
Zinc	< 0.005	< 0.005	< 0.005	0.12	AqTot	mg/L	4/14/23	200.8	DS



LABORATORY REPORT

EAI ID#: **258494**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Granite State LF | Groundwater | 1003.24**

Sample ID: MW-43R_20230411

Lab Sample ID: 258494.16

Matrix: aqueous

Date Sampled: 4/11/23

Date Received: 4/12/23

		Analytical Matrix	Units	Date of Analysis	Method	Analyst
Aluminum	3.8	AqTot	mg/L	4/14/23	200.8	DS
Antimony	< 0.001	AqTot	mg/L	4/14/23	200.8	DS
Arsenic	0.0014	AqTot	mg/L	4/14/23	200.8	DS
Barium	0.045	AqTot	mg/L	4/14/23	200.8	DS
Beryllium	< 0.001	AqTot	mg/L	4/14/23	200.8	DS
Calcium	12	AqTot	mg/L	4/14/23	200.8	DS
Cadmium	< 0.001	AqTot	mg/L	4/14/23	200.8	DS
Chromium	0.0060	AqTot	mg/L	4/14/23	200.8	DS
Copper	0.0051	AqTot	mg/L	4/14/23	200.8	DS
Iron	3.1	AqTot	mg/L	4/14/23	200.8	DS
Lead	0.0025	AqTot	mg/L	4/14/23	200.8	DS
Manganese	0.063	AqTot	mg/L	4/14/23	200.8	DS
Nickel	0.0039	AqTot	mg/L	4/14/23	200.8	DS
Selenium	< 0.001	AqTot	mg/L	4/14/23	200.8	DS
Silver	< 0.001	AqTot	mg/L	4/14/23	200.8	DS
Thallium	< 0.001	AqTot	mg/L	4/14/23	200.8	DS
Zinc	0.010	AqTot	mg/L	4/14/23	200.8	DS



LABORATORY REPORT

EAI ID#: **258494**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Granite State LF | Groundwater | 1003.24**

Sample ID: GWDUP
-1_20230411

Lab Sample ID: 258494.19

Matrix: aqueous

Date Sampled: 4/11/23

Date Received: 4/12/23

		Analytical Matrix	Units	Date of Analysis	Method	Analyst
Aluminum	< 0.05	AqDis	mg/L	4/14/23	200.8	DS
Antimony	< 0.001	AqDis	mg/L	4/14/23	200.8	DS
Arsenic	< 0.0005	AqDis	mg/L	4/14/23	200.8	DS
Barium	0.010	AqDis	mg/L	4/14/23	200.8	DS
Beryllium	< 0.001	AqDis	mg/L	4/14/23	200.8	DS
Calcium	1.8	AqDis	mg/L	4/14/23	200.8	DS
Cadmium	< 0.001	AqDis	mg/L	4/14/23	200.8	DS
Chromium	< 0.001	AqDis	mg/L	4/14/23	200.8	DS
Copper	< 0.001	AqDis	mg/L	4/14/23	200.8	DS
Iron	< 0.05	AqDis	mg/L	4/14/23	200.8	DS
Lead	< 0.001	AqDis	mg/L	4/14/23	200.8	DS
Manganese	< 0.005	AqDis	mg/L	4/14/23	200.8	DS
Nickel	< 0.001	AqDis	mg/L	4/14/23	200.8	DS
Selenium	< 0.001	AqDis	mg/L	4/14/23	200.8	DS
Silver	< 0.001	AqDis	mg/L	4/14/23	200.8	DS
Thallium	< 0.001	AqDis	mg/L	4/14/23	200.8	DS
Zinc	< 0.005	AqDis	mg/L	4/14/23	200.8	DS



QC REPORT

EAI ID#: 258494

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Granite State LF | Groundwater | 1003.24**

Parameter Name	Blank	LCS	LCSD	Units	Date of Analysis	Limits	RPD	Method
Aluminum (Aqdis)	< 0.05	10 (102 %R)	NA	mg/L	4/14/23	85 - 115	20	200.8
Aluminum (Aqtot)	< 0.05	11 (106 %R)	NA	mg/L	4/14/23	85 - 115	20	200.8
Antimony (Aqdis)	< 0.001	0.10 (101 %R)	NA	mg/L	4/14/23	85 - 115	20	200.8
Antimony (Aqtot)	< 0.001	0.45 (112 %R)	NA	mg/L	4/14/23	85 - 115	20	200.8
Arsenic (Aqdis)	< 0.0005	0.099 (99 %R)	NA	mg/L	4/14/23	85 - 115	20	200.8
Arsenic (Aqtot)	< 0.0005	0.41 (103 %R)	NA	mg/L	4/14/23	85 - 115	20	200.8
Barium (Aqdis)	< 0.001	0.097 (97 %R)	NA	mg/L	4/14/23	85 - 115	20	200.8
Barium (Aqtot)	< 0.001	0.41 (103 %R)	NA	mg/L	4/14/23	85 - 115	20	200.8
Beryllium (Aqdis)	< 0.001	0.096 (96 %R)	NA	mg/L	4/14/23	85 - 115	20	200.8
Beryllium (Aqtot)	< 0.001	0.39 (99 %R)	NA	mg/L	4/14/23	85 - 115	20	200.8
Calcium (Aqdis)	< 0.05	9.8 (98 %R)	NA	mg/L	4/14/23	85 - 115	20	200.8
Calcium (Aqtot)	< 0.05	9.7 (97 %R)	NA	mg/L	4/14/23	85 - 115	20	200.8
Cadmium (Aqdis)	< 0.001	0.098 (98 %R)	NA	mg/L	4/14/23	85 - 115	20	200.8
Cadmium (Aqtot)	< 0.001	0.41 (103 %R)	NA	mg/L	4/14/23	85 - 115	20	200.8
Chromium (Aqdis)	< 0.001	0.096 (96 %R)	NA	mg/L	4/14/23	85 - 115	20	200.8
Chromium (Aqtot)	< 0.001	0.39 (98 %R)	NA	mg/L	4/14/23	85 - 115	20	200.8
Copper (Aqdis)	< 0.001	0.092 (92 %R)	NA	mg/L	4/14/23	85 - 115	20	200.8
Copper (Aqtot)	< 0.001	0.38 (96 %R)	NA	mg/L	4/14/23	85 - 115	20	200.8
Iron (Aqdis)	< 0.05	9.9 (99 %R)	NA	mg/L	4/14/23	85 - 115	20	200.8
Iron (Aqtot)	< 0.05	10 (102 %R)	NA	mg/L	4/14/23	85 - 115	20	200.8
Lead (Aqdis)	< 0.001	0.099 (99 %R)	NA	mg/L	4/14/23	85 - 115	20	200.8
Lead (Aqtot)	< 0.001	0.41 (102 %R)	NA	mg/L	4/14/23	85 - 115	20	200.8
Manganese (Aqdis)	< 0.005	0.094 (94 %R)	NA	mg/L	4/14/23	85 - 115	20	200.8
Manganese (Aqtot)	< 0.005	0.39 (99 %R)	NA	mg/L	4/14/23	85 - 115	20	200.8
Nickel (Aqdis)	< 0.001	0.094 (94 %R)	NA	mg/L	4/14/23	85 - 115	20	200.8
Nickel (Aqtot)	< 0.001	0.40 (99 %R)	NA	mg/L	4/14/23	85 - 115	20	200.8
Selenium (Aqdis)	< 0.001	0.097 (97 %R)	NA	mg/L	4/14/23	85 - 115	20	200.8
Selenium (Aqtot)	< 0.001	0.40 (100 %R)	NA	mg/L	4/14/23	85 - 115	20	200.8
Silver (Aqdis)	< 0.001	0.0096 (96 %R)	NA	mg/L	4/14/23	85 - 115	20	200.8
Silver (Aqtot)	< 0.001	0.021 (103 %R)	NA	mg/L	4/14/23	85 - 115	20	200.8
Thallium (Aqdis)	< 0.001	0.098 (98 %R)	NA	mg/L	4/14/23	85 - 115	20	200.8
Thallium (Aqtot)	< 0.001	0.40 (101 %R)	NA	mg/L	4/14/23	85 - 115	20	200.8
Zinc (Aqdis)	< 0.005	0.096 (96 %R)	NA	mg/L	4/14/23	85 - 115	20	200.8
Zinc (Aqtot)	< 0.005	0.40 (101 %R)	NA	mg/L	4/14/23	85 - 115	20	200.8

*! Flagged analyte recoveries deviated from the QA/QC limits. Unless noted, flagged data does not impact the sample data.

Lilly Corenthal
Sanborn, Head & Associates, Inc. (NH)
20 Foundry Street
Concord, NH 03301



Laboratory Report for:

Eastern Analytical, Inc. ID: 258607
Client Identification: Granite State LF | Groundwater | 1003.24
Date Received: 4/13/2023

Enclosed are the analytical results per the Chain of Custody for sample(s) in the referenced project. All analyses were performed in accordance with our QA/QC Program, NELAP and other applicable state requirements. All quality control criteria was within acceptance criteria unless noted on the report pages. Results are for the exclusive use of the client named on this report and will not be released to a third party without consent.

The following information is contained within this report: Sample Conditions summary, Analytical Results/Data, Quality Control data (if requested) and copies of the Chain of Custody. This report may not be reproduced except in full, without the written approval of the laboratory.

The following standard abbreviations and conventions apply to all EAI reports:

- < : "less than" followed by the reporting limit
- > : "greater than" followed by the reporting limit
- %R : % Recovery

Certifications:

Eastern Analytical, Inc. maintains certification in the following states: Connecticut (PH-0492), Maine (NH005), Massachusetts (M-NH005), New Hampshire/NELAP (1012), Rhode Island (269), Vermont (VT1012), New York (12072) and West Virginia (9910C). Please refer to our website at www.easternanalytical.com for a copy of our certificates and accredited parameters.


References:

- EPA 600/4-79-020, 1983
- Standard Methods for Examination of Water and Wastewater, 20th, 21st, 22nd & 23rd edition or noted revision year.
- Test Methods for Evaluating Solid Waste SW 846 3rd Edition including updates IVA and IVB
- Hach Water Analysis Handbook, 4th edition, 1992
- ASTM International

If you have any questions regarding the results contained within, please feel free to contact customer service. Unless otherwise requested, we will dispose of the sample(s) 6 weeks from the sample receipt date.

We appreciate this opportunity to be of service and look forward to your continued patronage.

Sincerely,


Lorraine Olashaw, Lab Director

4.26.23
Date



SAMPLE CONDITIONS PAGE

EAI ID#: 258607

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Granite State LF | Groundwater | 1003.24**

Temperature upon receipt (°C): 1.1

Received on ice or cold packs (Yes/No): Y

Acceptable temperature range (°C): 0-6

Lab ID	Sample ID	Date Received	Date/Time Sampled	Sample Matrix	% Dry Weight	Exceptions/Comments (other than thermal preservation)
258607.01	MW-6_20230412	4/13/23	4/12/23 13:10	aqueous		Adheres to Sample Acceptance Policy
258607.02	MW-14_20230412	4/13/23	4/12/23 12:10	aqueous		Adheres to Sample Acceptance Policy
258607.03	MW-19_20230412	4/13/23	4/12/23 09:20	aqueous		Adheres to Sample Acceptance Policy
258607.04	MW-44_20230412	4/13/23	4/12/23 11:20	aqueous		Adheres to Sample Acceptance Policy
258607.05	MW-44R_20230412	4/13/23	4/12/23 10:45	aqueous		Adheres to Sample Acceptance Policy
258607.06	TB-GW-03_20230412	4/13/23	4/12/23 14:10	aqueous		Adheres to Sample Acceptance Policy
258607.07	TB-LL-GW-03_20230412	4/13/23	4/12/23 14:10	aqueous		Adheres to Sample Acceptance Policy

All results contained in this report relate only to the above listed samples.

Unless otherwise noted:

- Hold times, preservation, container types, and sample conditions adhered to EPA Protocol.
- Solid samples are reported on a dry weight basis, unless otherwise noted. pH/Corrosivity, Flashpoint, Ignitability, Paint Filter, Conductivity and Specific Gravity are always reported on an "as received" basis.
- Analysis of pH, Total Residual Chlorine, Dissolved Oxygen and Sulfite were performed at the laboratory outside of the recommended 15 minute hold time.
- Samples collected by Eastern Analytical, Inc. (EAI) were collected in accordance with approved EPA procedures.



LABORATORY REPORT

EAI ID#: **258607**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Granite State LF | Groundwater | 1003.24**

Sample ID:	MW-6_20230412	MW-14_20230412	MW-19_20230412	MW-44_20230412
Lab Sample ID:	258607.01	258607.02	258607.03	258607.04
Matrix:	aqueous	aqueous	aqueous	aqueous
Date Sampled:	4/12/23	4/12/23	4/12/23	4/12/23
Date Received:	4/13/23	4/13/23	4/13/23	4/13/23
Units:	ug/L	ug/L	ug/L	ug/L
Date of Analysis:	4/13/23	4/13/23	4/13/23	4/13/23
Analyst:	JAK	JAK	JAK	JAK
Method:	8260C	8260C	8260C	8260C
Dilution Factor:	1	1	1	1
Dichlorodifluoromethane	< 2	< 2	< 2	< 2
Chloromethane	< 2	< 2	< 2	< 2
Vinyl chloride	< 1	< 1	< 1	< 1
Bromomethane	< 2	< 2	< 2	< 2
Chloroethane	< 2	< 2	< 2	< 2
Trichlorofluoromethane	< 2	< 2	< 2	< 2
Diethyl Ether	< 2	< 2	< 2	< 2
Acetone	< 10	< 10	< 10	< 10
1,1-Dichloroethene	< 0.5	< 0.5	< 0.5	< 0.5
tert-Butyl Alcohol (TBA)	< 30	< 30	< 30	< 30
Methylene chloride	< 1	< 1	< 1	< 1
Carbon disulfide	< 2	< 2	< 2	< 2
Methyl-t-butyl ether(MTBE)	< 1	< 1	< 1	< 1
Ethyl-t-butyl ether(ETBE)	< 2	< 2	< 2	< 2
Isopropyl ether(DIPE)	< 2	< 2	< 2	< 2
tert-amyl methyl ether(TAME)	< 2	< 2	< 2	< 2
trans-1,2-Dichloroethene	< 1	< 1	< 1	< 1
1,1-Dichloroethane	< 1	< 1	< 1	< 1
2,2-Dichloropropane	< 1	< 1	< 1	< 1
cis-1,2-Dichloroethene	< 1	< 1	< 1	< 1
2-Butanone(MEK)	< 10	< 10	< 10	< 10
Bromochloromethane	< 1	< 1	< 1	< 1
Tetrahydrofuran(THF)	< 10	< 10	< 10	< 10
Chloroform	< 1	< 1	< 1	< 1
1,1,1-Trichloroethane	< 1	< 1	< 1	< 1
Carbon tetrachloride	< 1	< 1	< 1	< 1
1,1-Dichloropropene	< 1	< 1	< 1	< 1
Benzene	< 1	< 1	< 1	< 1
1,2-Dichloroethane	< 1	< 1	< 1	< 1
Trichloroethene	< 1	< 1	< 1	< 1
1,2-Dichloropropane	< 1	< 1	< 1	< 1
Dibromomethane	< 1	< 1	< 1	< 1
Bromodichloromethane	< 0.5	< 0.5	< 0.5	< 0.5
1,4-Dioxane	< 50	< 50	< 50	< 50
4-Methyl-2-pentanone(MIBK)	< 10	< 10	< 10	< 10
cis-1,3-Dichloropropene	< 0.5	< 0.5	< 0.5	< 0.5
Toluene	< 1	< 1	< 1	< 1
trans-1,3-Dichloropropene	< 0.5	< 0.5	< 0.5	< 0.5
1,1,2-Trichloroethane	< 1	< 1	< 1	< 1
2-Hexanone	< 10	< 10	< 10	< 10
Tetrachloroethene	< 1	< 1	< 1	< 1
1,3-Dichloropropane	< 1	< 1	< 1	< 1
Dibromochloromethane	< 1	< 1	< 1	< 1
1,2-Dibromoethane(EDB)	< 0.5	< 0.5	< 0.5	< 0.5
Chlorobenzene	< 1	< 1	< 1	< 1
1,1,1,2-Tetrachloroethane	< 1	< 1	< 1	< 1



LABORATORY REPORT

EAI ID#: **258607**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Granite State LF | Groundwater | 1003.24**

Sample ID:	MW-6_20230412	MW-14_20230412	MW-19_20230412	MW-44_20230412
Lab Sample ID:	258607.01	258607.02	258607.03	258607.04
Matrix:	aqueous	aqueous	aqueous	aqueous
Date Sampled:	4/12/23	4/12/23	4/12/23	4/12/23
Date Received:	4/13/23	4/13/23	4/13/23	4/13/23
Units:	ug/L	ug/L	ug/L	ug/L
Date of Analysis:	4/13/23	4/13/23	4/13/23	4/13/23
Analyst:	JAK	JAK	JAK	JAK
Method:	8260C	8260C	8260C	8260C
Dilution Factor:	1	1	1	1
Ethylbenzene	< 1	< 1	< 1	< 1
mp-Xylene	< 1	< 1	< 1	< 1
o-Xylene	< 1	< 1	< 1	< 1
Styrene	< 1	< 1	< 1	< 1
Bromoform	< 2	< 2	< 2	< 2
IsoPropylbenzene	< 1	< 1	< 1	< 1
Bromobenzene	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	< 1	< 1	< 1	< 1
1,2,3-Trichloropropane	< 0.5	< 0.5	< 0.5	< 0.5
n-Propylbenzene	< 1	< 1	< 1	< 1
2-Chlorotoluene	< 1	< 1	< 1	< 1
4-Chlorotoluene	< 1	< 1	< 1	< 1
1,3,5-Trimethylbenzene	< 1	< 1	< 1	< 1
tert-Butylbenzene	< 1	< 1	< 1	< 1
1,2,4-Trimethylbenzene	< 1	< 1	< 1	< 1
sec-Butylbenzene	< 1	< 1	< 1	< 1
1,3-Dichlorobenzene	< 1	< 1	< 1	< 1
p-Isopropyltoluene	< 1	< 1	< 1	< 1
1,4-Dichlorobenzene	< 1	< 1	< 1	< 1
1,2-Dichlorobenzene	< 1	< 1	< 1	< 1
n-Butylbenzene	< 1	< 1	< 1	< 1
1,2-Dibromo-3-chloropropane	< 2	< 2	< 2	< 2
1,3,5-Trichlorobenzene	< 1	< 1	< 1	< 1
1,2,4-Trichlorobenzene	< 1	< 1	< 1	< 1
Hexachlorobutadiene	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	< 2	< 2	< 2	< 2
1,2,3-Trichlorobenzene	< 0.5	< 0.5	< 0.5	< 0.5
4-Bromofluorobenzene (surr)	92 %R	93 %R	92 %R	92 %R
1,2-Dichlorobenzene-d4 (surr)	104 %R	103 %R	104 %R	103 %R
Toluene-d8 (surr)	99 %R	98 %R	98 %R	98 %R
1,2-Dichloroethane-d4 (surr)	114 %R	114 %R	115 %R	114 %R



LABORATORY REPORT

EAI ID#: 258607

Client: Sanborn, Head & Associates, Inc. (NH)

Client Designation: Granite State LF | Groundwater | 1003.24

Sample ID: MW-44R_20230412 TB-GW-03_20230412

Lab Sample ID:	258607.05	258607.06
Matrix:	aqueous	aqueous
Date Sampled:	4/12/23	4/12/23
Date Received:	4/13/23	4/13/23
Units:	ug/L	ug/L
Date of Analysis:	4/13/23	4/13/23
Analyst:	JAK	JAK
Method:	8260C	8260C
Dilution Factor:	1	1

Dichlorodifluoromethane	< 2	< 2
Chloromethane	< 2	< 2
Vinyl chloride	< 1	< 1
Bromomethane	< 2	< 2
Chloroethane	< 2	< 2
Trichlorofluoromethane	< 2	< 2
Diethyl Ether	< 2	< 2
Acetone	< 10	< 10
1,1-Dichloroethene	< 0.5	< 0.5
tert-Butyl Alcohol (TBA)	< 30	< 30
Methylene chloride	< 1	< 1
Carbon disulfide	< 2	< 2
Methyl-t-butyl ether(MTBE)	< 1	< 1
Ethyl-t-butyl ether(ETBE)	< 2	< 2
Isopropyl ether(DIPE)	< 2	< 2
tert-amyl methyl ether(TAME)	< 2	< 2
trans-1,2-Dichloroethene	< 1	< 1
1,1-Dichloroethane	< 1	< 1
2,2-Dichloropropane	< 1	< 1
cis-1,2-Dichloroethene	< 1	< 1
2-Butanone(MEK)	< 10	< 10
Bromochloromethane	< 1	< 1
Tetrahydrofuran(THF)	< 10	< 10
Chloroform	< 1	< 1
1,1,1-Trichloroethane	< 1	< 1
Carbon tetrachloride	< 1	< 1
1,1-Dichloropropene	< 1	< 1
Benzene	< 1	< 1
1,2-Dichloroethane	< 1	< 1
Trichloroethene	< 1	< 1
1,2-Dichloropropane	< 1	< 1
Dibromomethane	< 1	< 1
Bromodichloromethane	< 0.5	< 0.5
1,4-Dioxane	< 50	< 50
4-Methyl-2-pentanone(MIBK)	< 10	< 10
cis-1,3-Dichloropropene	< 0.5	< 0.5
Toluene	< 1	< 1
trans-1,3-Dichloropropene	< 0.5	< 0.5
1,1,2-Trichloroethane	< 1	< 1
2-Hexanone	< 10	< 10
Tetrachloroethene	< 1	< 1
1,3-Dichloropropane	< 1	< 1
Dibromochloromethane	< 1	< 1
1,2-Dibromoethane(EDB)	< 0.5	< 0.5
Chlorobenzene	< 1	< 1
1,1,1,2-Tetrachloroethane	< 1	< 1



LABORATORY REPORT

EAI ID#: 258607

Client: Sanborn, Head & Associates, Inc. (NH)

Client Designation: Granite State LF | Groundwater | 1003.24

Sample ID: MW-44R_20230412 TB-GW-03_20230412

Lab Sample ID:	258607.05	258607.06
Matrix:	aqueous	aqueous
Date Sampled:	4/12/23	4/12/23
Date Received:	4/13/23	4/13/23
Units:	ug/L	ug/L
Date of Analysis:	4/13/23	4/13/23
Analyst:	JAK	JAK
Method:	8260C	8260C
Dilution Factor:	1	1
Ethylbenzene	< 1	< 1
m,p-Xylene	< 1	< 1
o-Xylene	< 1	< 1
Styrene	< 1	< 1
Bromoform	< 2	< 2
IsoPropylbenzene	< 1	< 1
Bromobenzene	< 1	< 1
1,1,2,2-Tetrachloroethane	< 1	< 1
1,2,3-Trichloropropane	< 0.5	< 0.5
n-Propylbenzene	< 1	< 1
2-Chlorotoluene	< 1	< 1
4-Chlorotoluene	< 1	< 1
1,3,5-Trimethylbenzene	< 1	< 1
tert-Butylbenzene	< 1	< 1
1,2,4-Trimethylbenzene	< 1	< 1
sec-Butylbenzene	< 1	< 1
1,3-Dichlorobenzene	< 1	< 1
p-Isopropyltoluene	< 1	< 1
1,4-Dichlorobenzene	< 1	< 1
1,2-Dichlorobenzene	< 1	< 1
n-Butylbenzene	< 1	< 1
1,2-Dibromo-3-chloropropane	< 2	< 2
1,3,5-Trichlorobenzene	< 1	< 1
1,2,4-Trichlorobenzene	< 1	< 1
Hexachlorobutadiene	< 0.5	< 0.5
Naphthalene	< 2	< 2
1,2,3-Trichlorobenzene	< 0.5	< 0.5
4-Bromofluorobenzene (surr)	92 %R	93 %R
1,2-Dichlorobenzene-d4 (surr)	104 %R	103 %R
Toluene-d8 (surr)	97 %R	99 %R
1,2-Dichloroethane-d4 (surr)	115 %R	114 %R



QC REPORT

EAI ID#: 258607

Client: Sanborn, Head & Associates, Inc. (NH)

Batch ID: 638169-91215/A041323V82601

Client Designation: Granite State LF | Groundwater | 1003.24

Parameter Name	Blank	LCS	LCS D	Analysis Date	Units	Limits	RPD	Method
Dichlorodifluoromethane	< 2	22 (112 %R)	20 (102 %R) (10 RPD)	4/13/2023	ug/L	40 - 160	20	8260C
Chloromethane	< 2	17 (84 %R)	18 (89 %R) (7 RPD)	4/13/2023	ug/L	40 - 160	20	8260C
Vinyl chloride	< 1	25 (124 %R)	23 (113 %R) (9 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
Bromomethane	< 2	23 (117 %R)	18 (90 %R) (27 RPD) !	4/13/2023	ug/L	40 - 160	20	8260C
Chloroethane	< 2	24 (119 %R)	22 (110 %R) (8 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
Trichlorofluoromethane	< 2	25 (124 %R)	23 (116 %R) (6 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
Diethyl Ether	< 2	19 (95 %R)	19 (93 %R) (2 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
Acetone	< 10	22 (110 %R)	24 (118 %R) (7 RPD)	4/13/2023	ug/L	40 - 160	20	8260C
1,1-Dichloroethene	< 0.5	22 (109 %R)	20 (102 %R) (7 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
tert-Butyl Alcohol (TBA)	< 30	120 (116 %R)	120 (123 %R) (5 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
Methylene chlorlde	< 1	22 (112 %R)	21 (107 %R) (5 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
Carbon disulfide	< 2	21 (107 %R)	21 (104 %R) (3 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
Methyl-t-butyl ether(MTBE)	< 1	23 (114 %R)	23 (114 %R) (0 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
Ethyl-t-butyl ether(ETBE)	< 2	23 (114 %R)	23 (114 %R) (0 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
Isopropyl ether(DIPE)	< 2	24 (119 %R)	24 (118 %R) (1 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
tert-amyl methyl ether(TAME)	< 2	22 (111 %R)	22 (112 %R) (1 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
trans-1,2-Dichloroethene	< 1	22 (110 %R)	21 (105 %R) (5 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
1,1-Dichloroethane	< 1	24 (122 %R)	23 (116 %R) (5 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
2,2-Dichloropropane	< 1	25 (125 %R)	23 (115 %R) (8 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
cis-1,2-Dichloroethene	< 1	24 (119 %R)	23 (115 %R) (4 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
2-Butanone(MEK)	< 10	24 (122 %R)	25 (127 %R) (5 RPD)	4/13/2023	ug/L	40 - 160	20	8260C
Bromochloromethane	< 1	22 (109 %R)	22 (111 %R) (2 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
Tetrahydrofuran(THF)	< 10	25 (123 %R)	25 (127 %R) (3 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
Chloroform	< 1	23 (115 %R)	22 (110 %R) (4 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
1,1,1-Trichloroethane	< 1	23 (114 %R)	22 (108 %R) (6 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
Carbon tetrachloride	< 1	23 (116 %R)	22 (110 %R) (6 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
1,1-Dichloropropene	< 1	23 (116 %R)	22 (111 %R) (4 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
Benzene	< 1	23 (114 %R)	22 (110 %R) (3 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
1,2-Dichloroethane	< 1	24 (118 %R)	23 (115 %R) (2 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
Trichloroethene	< 1	22 (111 %R)	22 (109 %R) (3 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
1,2-Dichloropropane	< 1	23 (117 %R)	23 (114 %R) (3 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
Dibromomethane	< 1	23 (116 %R)	23 (114 %R) (1 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
Bromodichloromethane	< 0.5	23 (115 %R)	22 (112 %R) (3 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
1,4-Dioxane	< 50	< 50 (111 %R)	< 50 (132 %R) (17 RPD)	4/13/2023	ug/L	40 - 160	20	8260C
4-Methyl-2-pentanone(MIBK)	< 10	24 (118 %R)	24 (120 %R) (1 RPD)	4/13/2023	ug/L	40 - 160	20	8260C
cis-1,3-Dichloropropene	< 0.5	23 (113 %R)	22 (110 %R) (2 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
Toluene	< 1	24 (118 %R)	23 (114 %R) (4 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
trans-1,3-Dichloropropene	< 0.5	24 (121 %R)	24 (120 %R) (1 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
1,1,2-Trichloroethane	< 1	23 (117 %R)	24 (118 %R) (1 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
2-Hexanone	< 10	24 (119 %R)	26 (128 %R) (7 RPD)	4/13/2023	ug/L	40 - 160	20	8260C
Tetrachloroethene	< 1	23 (114 %R)	22 (110 %R) (4 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
1,3-Dichloropropane	< 1	23 (115 %R)	23 (116 %R) (1 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
Dibromochloromethane	< 1	23 (114 %R)	23 (114 %R) (0 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
1,2-Dibromoethane(EDB)	< 0.5	25 (123 %R)	25 (125 %R) (2 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
Chlorobenzene	< 1	23 (114 %R)	22 (111 %R) (3 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
1,1,1,2-Tetrachloroethane	< 1	23 (115 %R)	23 (114 %R) (1 RPD)	4/13/2023	ug/L	70 - 130	20	8260C



QC REPORT

EAI ID#: 258607

Client: Sanborn, Head & Associates, Inc. (NH)

Batch ID: 638169-91215/A041323V82601

Client Designation: Granite State LF | Groundwater | 1003.24

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
Ethylbenzene	< 1	25 (123 %R)	24 (119 %R) (4 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
mp-Xylene	< 1	46 (114 %R)	44 (111 %R) (3 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
o-Xylene	< 1	22 (112 %R)	22 (111 %R) (1 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
Styrene	< 1	18 (92 %R)	18 (90 %R) (3 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
Bromoform	< 2	22 (109 %R)	22 (112 %R) (2 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
IsoPropylbenzene	< 1	22 (111 %R)	22 (112 %R) (1 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
Bromobenzene	< 1	22 (112 %R)	21 (106 %R) (6 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
1,1,2,2-Tetrachloroethane	< 1	23 (117 %R)	23 (113 %R) (3 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
1,2,3-Trichloropropane	< 0.5	23 (114 %R)	22 (110 %R) (3 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
n-Propylbenzene	< 1	24 (121 %R)	23 (115 %R) (5 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
2-Chlorotoluene	< 1	24 (121 %R)	23 (115 %R) (6 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
4-Chlorotoluene	< 1	24 (121 %R)	23 (116 %R) (4 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
1,3,5-Trimethylbenzene	< 1	23 (114 %R)	22 (112 %R) (2 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
tert-Butylbenzene	< 1	25 (126 %R)	22 (110 %R) (14 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
1,2,4-Trimethylbenzene	< 1	22 (112 %R)	22 (112 %R) (0 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
sec-Butylbenzene	< 1	25 (124 %R)	24 (122 %R) (2 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
1,3-Dichlorobenzene	< 1	22 (112 %R)	22 (109 %R) (2 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
p-Isopropyltoluene	< 1	22 (109 %R)	22 (109 %R) (0 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
1,4-Dichlorobenzene	< 1	21 (106 %R)	21 (104 %R) (2 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
1,2-Dichlorobenzene	< 1	22 (108 %R)	21 (107 %R) (1 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
n-Butylbenzene	< 1	22 (111 %R)	22 (110 %R) (1 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
1,2-Dibromo-3-chloropropane	< 2	22 (109 %R)	22 (109 %R) (0 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
1,3,5-Trichlorobenzene	< 1	22 (108 %R)	22 (108 %R) (0 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
1,2,4-Trichlorobenzene	< 1	22 (110 %R)	21 (107 %R) (3 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
Hexachlorobutadiene	< 0.5	20 (102 %R)	21 (103 %R) (1 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
Naphthalene	< 2	23 (114 %R)	22 (109 %R) (5 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
1,2,3-Trichlorobenzene	< 0.5	22 (112 %R)	22 (109 %R) (3 RPD)	4/13/2023	ug/L	70 - 130	20	8260C
4-Bromofluorobenzene (surr)	91 %R	99 %R	103 %R	4/13/2023	% Rec	70 - 130	20	8260C
1,2-Dichlorobenzene-d4 (surr)	104 %R	95 %R	95 %R	4/13/2023	% Rec	70 - 130	20	8260C
Toluene-d8 (surr)	98 %R	104 %R	102 %R	4/13/2023	% Rec	70 - 130	20	8260C
1,2-Dichloroethane-d4 (surr)	114 %R	106 %R	106 %R	4/13/2023	% Rec	70 - 130	20	8260C

*// Flagged analyte recoveries deviated from the QA/QC limits. Data that impacts sample results are noted on the sample report.



LABORATORY REPORT

EAI ID#: **258607**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Granite State LF | Groundwater | 1003.24**

Sample ID:	MW-6_20230412	MW-14_20230412	MW-19_20230412	MW-44_20230412
Lab Sample ID:	258607.01	258607.02	258607.03	258607.04
Matrix:	aqueous	aqueous	aqueous	aqueous
Date Sampled:	4/12/23	4/12/23	4/12/23	4/12/23
Date Received:	4/13/23	4/13/23	4/13/23	4/13/23
Units:	ug/L	ug/L	ug/L	ug/L
Date of Analysis:	4/17/23	4/13/23	4/13/23	4/13/23
Analyst:	MKB	MKB	MKB	MKB
Method:	8260B SIM	8260B SIM	8260B SIM	8260B SIM
Dilution Factor:	1	1	1	1
1,4-Dioxane	< 0.25	< 0.25	< 0.25	< 0.25
4-Bromofluorobenzene (surr)	91 %R	91 %R	94 %R	93 %R
Toluene-d8 (surr)	101 %R	100 %R	101 %R	101 %R



LABORATORY REPORT

EAI ID#: 258607

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Granite State LF | Groundwater | 1003.24**

Sample ID: MW-44R_20230412 TB-LL-GW-03_20230412

Lab Sample ID:	258607.05	258607.07
Matrix:	aqueous	aqueous
Date Sampled:	4/12/23	4/12/23
Date Received:	4/13/23	4/13/23
Units:	ug/L	ug/L
Date of Analysis:	4/17/23	4/13/23
Analyst:	MKB	MKB
Method:	8260B SIM	8260B SIM
Dilution Factor:	1	1
1,4-Dioxane	< 0.25	< 0.25
4-Bromofluorobenzene (surr)	91 %R	90 %R
Toluene-d8 (surr)	101 %R	100 %R



QC REPORT

EAI ID#: 258607

Client: Sanborn, Head & Associates, Inc. (NH)

Batch ID: 638169-82110/A041323DIOX1

Client Designation: Granite State LF | Groundwater | 1003.24

Parameter Name	Blank	LCS	LCS D	Analysis Date	Units	Limits	RPD	Method
1,4-Dioxane	< 0.2	4.6 (93 %R)	5.0 (99 %R) (7 RPD)	4/13/2023	ug/L	70 - 130	20	8260B
4-Bromofluorobenzene (surr)	88 %R	90 %R	95 %R	4/13/2023	% Rec	70 - 130	50	8260B
Toluene-d8 (surr)	99 %R	100 %R	102 %R	4/13/2023	% Rec	70 - 130	50	8260B

*! Flagged analyte recoveries deviated from the QA/QC limits. Data that impacts sample results are noted on the sample report.



QC REPORT

EAI ID#: **258607**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Batch ID: 638173-29260/A041723DIOX1

Client Designation: **Granite State LF | Groundwater | 1003.24**

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
1,4-Dioxane	< 0.2	4.8 (95 %R)	5.0 (101 %R) (6 RPD)	4/17/2023	ug/L	70 - 130	20	8260B
4-Bromofluorobenzene (surr)	91 %R	92 %R	94 %R	4/17/2023	% Rec	70 - 130	50	8260B
Toluene-d8 (surr)	100 %R	101 %R	102 %R	4/17/2023	% Rec	70 - 130	50	8260B

*! Flagged analyte recoveries deviated from the QA/QC limits. Data that impacts sample results are noted on the sample report.



LABORATORY REPORT

EAI ID#: 258607

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Granite State LF | Groundwater | 1003.24**

Sample ID: MW-14_20230412

Lab Sample ID: 258607.02
Matrix: aqueous
Date Sampled: 4/12/23
Date Received: 4/13/23
Units: ug/L
Date of Extraction/Prep: 4/18/23
Date of Analysis: 4/19/23
Analyst: JMR
Method: 8270E
Dilution Factor: 1

alpha-Terpineol	< 5
Phenol	< 1
2-Chlorophenol	< 1
2,4-Dichlorophenol	< 1
2,4,5-Trichlorophenol	< 1
2,4,6-Trichlorophenol	< 1
Pentachlorophenol	< 5
2-Nitrophenol	< 5
4-Nitrophenol	< 5
2,4-Dinitrophenol	< 10
2-Methylphenol	< 1
3/4-Methylphenol	< 1
2,4-Dimethylphenol	< 5
4-Chloro-3-methylphenol	< 1
4,6-Dinitro-2-methylphenol	< 5
Benzolc Acid	< 50
N-Nitrosodimethylamine	< 1
n-Nitroso-di-n-propylamine	< 0.5
n-Nitrosodiphenylamine	< 1
bis(2-Chloroethyl)ether	< 1
bis(2-chloroisopropyl)ether	< 1
bis(2-Chloroethoxy)methane	< 1
1,3-Dichlorobenzene	< 1
Acetophenone	< 10
1,4-Dichlorobenzene	< 1
1,2-Dichlorobenzene	< 1
1,2,4-Trichlorobenzene	< 1
2-Chloronaphthalene	< 1
4-Chlorophenyl-phenylether	< 1
4-Bromophenyl-phenylether	< 1
Hexachloroethane	< 1
Hexachlorobutadiene	< 1
Hexachlorocyclopentadiene	< 5
Hexachlorobenzene	< 1
4-Chloroaniline	< 1
2,3-Dichloroaniline	< 1
2-Nitroaniline	< 5
3-Nitroaniline	< 5
4-Nitroaniline	< 5
Aniline	< 1
Benzyl alcohol	< 10
Nitrobenzene	< 1
Isophorone	< 1
2,4-Dinitrotoluene	< 2
2,6-Dinitrotoluene	< 2
Benzidine (estimated)	< 5
3,3'-Dichlorobenzidine	< 1



LABORATORY REPORT

EAI ID#: 258607

Client: **Sanborn, Head & Associates, Inc. (NH)**
Client Designation: **Granite State LF | Groundwater | 1003.24**

Sample ID: MW-14_20230412

Lab Sample ID: 258607.02
Matrix: aqueous
Date Sampled: 4/12/23
Date Received: 4/13/23
Units: ug/L
Date of Extraction/Prep: 4/18/23
Date of Analysis: 4/19/23
Analyst: JMR
Method: 8270E
Dilution Factor: 1

Pyridine	< 5
Azobenzene	< 1
Carbazole	< 1
Dimethylphthalate	< 1
Diethylphthalate	< 5
Di-n-butylphthalate	< 5
Butylbenzylphthalate	< 5
bis(2-Ethylhexyl)phthalate	< 5
Di-n-octylphthalate	< 5
Dibenzofuran	< 1
Naphthalene	< 0.1
2-Methylnaphthalene	< 0.1
1-Methylnaphthalene	< 0.1
Acenaphthylene	< 0.1
Acenaphthene	< 0.1
Fluorene	< 0.1
Phenanthrene	< 0.1
Anthracene	< 0.1
Fluoranthene	< 0.1
Pyrene	< 0.1
Benzo[a]anthracene	< 0.1
Chrysene	< 0.1
Benzo[b]fluoranthene	< 0.1
Benzo[k]fluoranthene	< 0.1
Benzo[a]pyrene	< 0.1
Indeno[1,2,3-cd]pyrene	< 0.1
Dibenz[a,h]anthracene	< 0.1
Benzo[g,h,i]perylene	< 0.1
n-Decane	< 5
n-Octadecane	< 5
2-Fluorophenol (surr)	34 %R
Phenol-d6 (surr)	24 %R
2,4,6-Tribromophenol (surr)	83 %R
Nitrobenzene-D5 (surr)	62 %R
2-Fluorobiphenyl (surr)	73 %R
p-Terphenyl-D14 (surr)	71 %R



QC REPORT

EAI ID#: 258607

Client: Sanborn, Head & Associates, Inc. (NH)

Batch ID: 638174-02871/A041823ABN1

Client Designation: Granite State LF | Groundwater | 1003.24

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
alpha-Terpineol	< 5	20 (78 %R)	20 (80 %R) (2 RPD)	4/18/2023	ug/L	40 - 140	20	8270E
Phenol	< 1	15 (29 %R)	15 (30 %R) (1 RPD)	4/18/2023	ug/L	15 - 130	20	8270E
2-Chlorophenol	< 1	33 (66 %R)	33 (66 %R) (1 RPD)	4/18/2023	ug/L	30 - 130	20	8270E
2,4-Dichlorophenol	< 1	38 (76 %R)	39 (77 %R) (2 RPD)	4/18/2023	ug/L	30 - 130	20	8270E
2,4,5-Trichlorophenol	< 1	42 (84 %R)	43 (85 %R) (2 RPD)	4/18/2023	ug/L	30 - 130	20	8270E
2,4,6-Trichlorophenol	< 1	42 (83 %R)	42 (84 %R) (1 RPD)	4/18/2023	ug/L	30 - 130	20	8270E
Pentachlorophenol	< 5	46 (92 %R)	46 (92 %R) (0 RPD)	4/18/2023	ug/L	30 - 130	20	8270E
2-Nitrophenol	< 5	41 (82 %R)	41 (82 %R) (0 RPD)	4/18/2023	ug/L	30 - 130	20	8270E
4-Nitrophenol	< 5	17 (35 %R)	18 (35 %R) (2 RPD)	4/18/2023	ug/L	15 - 130	20	8270E
2,4-Dinitrophenol	< 10	49 (98 %R)	48 (96 %R) (1 RPD)	4/18/2023	ug/L	15 - 130	20	8270E
2-Methylphenol	< 1	31 (61 %R)	31 (62 %R) (1 RPD)	4/18/2023	ug/L	30 - 130	20	8270E
3/4-Methylphenol	< 1	30 (61 %R)	31 (62 %R) (2 RPD)	4/18/2023	ug/L	30 - 130	20	8270E
2,4-Dimethylphenol	< 5	32 (65 %R)	33 (66 %R) (2 RPD)	4/18/2023	ug/L	30 - 130	20	8270E
4-Chloro-3-methylphenol	< 1	40 (80 %R)	41 (81 %R) (1 RPD)	4/18/2023	ug/L	30 - 130	20	8270E
4,6-Dinitro-2-methylphenol	< 5	56 (112 %R)	55 (111 %R) (1 RPD)	4/18/2023	ug/L	30 - 130	20	8270E
Benzoic Acid	< 50	< 50 (22 %R)	< 50 (25 %R) (11 RPD)	4/18/2023	ug/L	15 - 130	20	8270E
N-Nitrosodimethylamine	< 1	12 (49 %R)	12 (48 %R) (2 RPD)	4/18/2023	ug/L	15 - 140	20	8270E
n-Nitroso-di-n-propylamine	< 0.5	19 (75 %R)	19 (76 %R) (2 RPD)	4/18/2023	ug/L	40 - 140	20	8270E
n-Nitrosodiphenylamine	< 1	22 (86 %R)	21 (85 %R) (1 RPD)	4/18/2023	ug/L	40 - 140	20	8270E
bis(2-Chloroethyl)ether	< 1	17 (69 %R)	17 (68 %R) (2 RPD)	4/18/2023	ug/L	40 - 140	20	8270E
bis(2-chloroisopropyl)ether	< 1	16 (64 %R)	16 (64 %R) (1 RPD)	4/18/2023	ug/L	40 - 140	20	8270E
bis(2-Chloroethoxy)methane	< 1	19 (76 %R)	19 (78 %R) (2 RPD)	4/18/2023	ug/L	40 - 140	20	8270E
1,3-Dichlorobenzene	< 1	16 (63 %R)	15 (60 %R) (4 RPD)	4/18/2023	ug/L	40 - 140	20	8270E
Acetophenone	< 10	19 (75 %R)	19 (76 %R) (0 RPD)	4/18/2023	ug/L	40 - 140	20	8270E
1,4-Dichlorobenzene	< 1	16 (63 %R)	15 (60 %R) (5 RPD)	4/18/2023	ug/L	40 - 140	20	8270E
1,2-Dichlorobenzene	< 1	16 (65 %R)	15 (62 %R) (5 RPD)	4/18/2023	ug/L	40 - 140	20	8270E
1,2,4-Trichlorobenzene	< 1	17 (69 %R)	17 (68 %R) (1 RPD)	4/18/2023	ug/L	40 - 140	20	8270E
2-Chloronaphthalene	< 1	19 (76 %R)	19 (78 %R) (2 RPD)	4/18/2023	ug/L	40 - 140	20	8270E
4-Chlorophenyl-phenylether	< 1	20 (81 %R)	20 (82 %R) (1 RPD)	4/18/2023	ug/L	40 - 140	20	8270E
4-Bromophenyl-phenylether	< 1	22 (87 %R)	21 (86 %R) (1 RPD)	4/18/2023	ug/L	40 - 140	20	8270E
Hexachloroethane	< 1	15 (61 %R)	15 (58 %R) (4 RPD)	4/18/2023	ug/L	40 - 140	20	8270E
Hexachlorobutadiene	< 1	17 (67 %R)	17 (66 %R) (0 RPD)	4/18/2023	ug/L	40 - 140	20	8270E
Hexachlorocyclopentadiene	< 5	16 (64 %R)	16 (64 %R) (1 RPD)	4/18/2023	ug/L	15 - 140	20	8270E
Hexachlorobenzene	< 1	22 (87 %R)	22 (87 %R) (1 RPD)	4/18/2023	ug/L	40 - 140	20	8270E
4-Chloroaniline	< 1	20 (80 %R)	21 (82 %R) (3 RPD)	4/18/2023	ug/L	15 - 140	20	8270E
2,3-Dichloroaniline	< 1	20 (81 %R)	21 (82 %R) (1 RPD)	4/18/2023	ug/L	40 - 140	20	8270E
2-Nitroaniline	< 5	21 (85 %R)	21 (85 %R) (0 RPD)	4/18/2023	ug/L	40 - 140	20	8270E
3-Nitroaniline	< 5	22 (87 %R)	22 (86 %R) (1 RPD)	4/18/2023	ug/L	40 - 140	20	8270E
4-Nitroaniline	< 5	22 (89 %R)	22 (88 %R) (1 RPD)	4/18/2023	ug/L	40 - 140	20	8270E
Aniline	< 1	17 (69 %R)	17 (70 %R) (2 RPD)	4/18/2023	ug/L	40 - 140	20	8270E
Benzyl alcohol	< 10	17 (68 %R)	17 (70 %R) (2 RPD)	4/18/2023	ug/L	40 - 140	20	8270E
Nitrobenzene	< 1	18 (72 %R)	18 (70 %R) (2 RPD)	4/18/2023	ug/L	40 - 140	20	8270E
Isophorone	< 1	20 (79 %R)	20 (80 %R) (1 RPD)	4/18/2023	ug/L	40 - 140	20	8270E
2,4-Dinitrotoluene	< 2	24 (94 %R)	23 (92 %R) (2 RPD)	4/18/2023	ug/L	40 - 140	20	8270E
2,6-Dinitrotoluene	< 2	22 (89 %R)	22 (88 %R) (1 RPD)	4/18/2023	ug/L	40 - 140	20	8270E
Benzidine (estimated)	< 5	16 (65 %R)	17 (68 %R) (5 RPD)	4/18/2023	ug/L	1 - 200	50	8270E



QC REPORT

EAI ID#: 258607

Client: Sanborn, Head & Associates, Inc. (NH)

Batch ID: 638174-02871/A041823ABN1

Client Designation: Granite State LF | Groundwater | 1003.24

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
3,3'-Dichlorobenzidine	< 1	24 (95 %R)	24 (95 %R) (1 RPD)	4/18/2023	ug/L	40 - 140	20	8270E
Pyridine	< 5	9.9 (40 %R)	10 (41 %R) (4 RPD)	4/18/2023	ug/L	15 - 140	20	8270E
Azobenzene	< 1	20 (82 %R)	20 (82 %R) (0 RPD)	4/18/2023	ug/L	40 - 140	20	8270E
Carbazole	< 1	23 (93 %R)	23 (92 %R) (1 RPD)	4/18/2023	ug/L	40 - 140	20	8270E
Dimethylphthalate	< 1	22 (89 %R)	22 (89 %R) (1 RPD)	4/18/2023	ug/L	40 - 140	20	8270E
Diethylphthalate	< 5	23 (93 %R)	23 (92 %R) (1 RPD)	4/18/2023	ug/L	40 - 140	20	8270E
Di-n-butylphthalate	< 5	25 (98 %R)	24 (98 %R) (1 RPD)	4/18/2023	ug/L	40 - 140	20	8270E
Butylbenzylphthalate	< 5	26 (103 %R)	26 (103 %R) (0 RPD)	4/18/2023	ug/L	40 - 140	20	8270E
bis(2-Ethylhexyl)phthalate	< 5	24 (98 %R)	24 (98 %R) (0 RPD)	4/18/2023	ug/L	40 - 140	20	8270E
Di-n-octylphthalate	< 5	26 (103 %R)	25 (101 %R) (2 RPD)	4/18/2023	ug/L	40 - 140	20	8270E
Dibenzofuran	< 1	20 (80 %R)	20 (80 %R) (1 RPD)	4/18/2023	ug/L	40 - 140	20	8270E
Naphthalene	< 0.1	18 (71 %R)	18 (70 %R) (1 RPD)	4/18/2023	ug/L	40 - 140	20	8270E
2-Methylnaphthalene	< 0.1	19 (75 %R)	19 (76 %R) (2 RPD)	4/18/2023	ug/L	40 - 140	20	8270E
1-Methylnaphthalene	< 0.1	18 (73 %R)	19 (74 %R) (2 RPD)	4/18/2023	ug/L	40 - 140	20	8270E
Acenaphthylene	< 0.1	18 (72 %R)	18 (73 %R) (1 RPD)	4/18/2023	ug/L	40 - 140	20	8270E
Acenaphthene	< 0.1	19 (77 %R)	19 (78 %R) (0 RPD)	4/18/2023	ug/L	40 - 140	20	8270E
Fluorene	< 0.1	20 (80 %R)	20 (79 %R) (1 RPD)	4/18/2023	ug/L	40 - 140	20	8270E
Phenanthrene	< 0.1	21 (83 %R)	21 (82 %R) (1 RPD)	4/18/2023	ug/L	40 - 140	20	8270E
Anthracene	< 0.1	21 (85 %R)	21 (84 %R) (1 RPD)	4/18/2023	ug/L	40 - 140	20	8270E
Fluoranthene	< 0.1	21 (85 %R)	21 (84 %R) (0 RPD)	4/18/2023	ug/L	40 - 140	20	8270E
Pyrene	< 0.1	21 (85 %R)	21 (85 %R) (0 RPD)	4/18/2023	ug/L	40 - 140	20	8270E
Benzo[a]anthracene	< 0.1	21 (83 %R)	21 (83 %R) (0 RPD)	4/18/2023	ug/L	40 - 140	20	8270E
Chrysene	< 0.1	22 (87 %R)	22 (87 %R) (0 RPD)	4/18/2023	ug/L	40 - 140	20	8270E
Benzo[b]fluoranthene	< 0.1	23 (91 %R)	23 (90 %R) (0 RPD)	4/18/2023	ug/L	40 - 140	20	8270E
Benzo[k]fluoranthene	< 0.1	23 (93 %R)	23 (93 %R) (0 RPD)	4/18/2023	ug/L	40 - 140	20	8270E
Benzo[a]pyrene	< 0.1	22 (88 %R)	22 (88 %R) (0 RPD)	4/18/2023	ug/L	40 - 140	20	8270E
Indeno[1,2,3-cd]pyrene	< 0.1	22 (87 %R)	22 (88 %R) (1 RPD)	4/18/2023	ug/L	40 - 140	20	8270E
Dibenz[a,h]anthracene	< 0.1	21 (86 %R)	22 (86 %R) (0 RPD)	4/18/2023	ug/L	40 - 140	20	8270E
Benzo[g,h,i]perylene	< 0.1	22 (86 %R)	22 (87 %R) (1 RPD)	4/18/2023	ug/L	40 - 140	20	8270E
n-Decane	< 5	14 (57 %R)	14 (54 %R) (4 RPD)	4/18/2023	ug/L	40 - 140	20	8270E
n-Octadecane	< 5	23 (91 %R)	23 (91 %R) (0 RPD)	4/18/2023	ug/L	40 - 140	20	8270E
2-Fluorophenol (surr)	37 %R	40 %R	39 %R	4/18/2023	% Rec	15 - 110		8270E
Phenol-d6 (surr)	26 %R	29 %R	29 %R	4/18/2023	% Rec	15 - 110		8270E
2,4,6-Tribromophenol (surr)	81 %R	94 %R	93 %R	4/18/2023	% Rec	15 - 110		8270E
Nitrobenzene-D5 (surr)	67 %R	74 %R	73 %R	4/18/2023	% Rec	30 - 130		8270E
2-Fluorobiphenyl (surr)	76 %R	78 %R	79 %R	4/18/2023	% Rec	30 - 130		8270E
p-Terphenyl-D14 (surr)	89 %R	92 %R	92 %R	4/18/2023	% Rec	30 - 130		8270E

*! Flagged analyte recoveries deviated from the QA/QC limits. Data that impacts sample results are noted on the sample report.



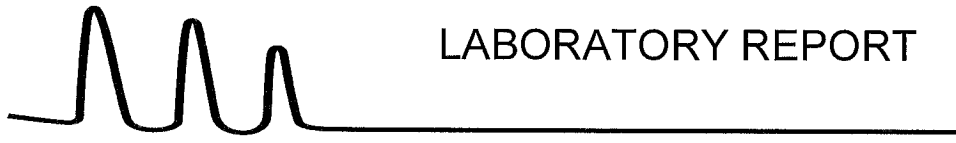
LABORATORY REPORT

EAI ID#: **258607**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Granite State LF | Groundwater | 1003.24**

Sample ID:	MW-6_20230412	MW-14_20230412	MW-19_20230412	MW-44_20230412
Lab Sample ID:	258607.01	258607.02	258607.03	258607.04
Matrix:	aqueous	aqueous	aqueous	aqueous
Date Sampled:	4/12/23	4/12/23	4/12/23	4/12/23
Date Received:	4/13/23	4/13/23	4/13/23	4/13/23
Units:	ug/L	ug/L	ug/L	ug/L
Date of Extraction/Prep:	4/14/23	4/14/23	4/14/23	4/14/23
Date of Analysis:	4/14/23	4/14/23	4/14/23	4/14/23
Analyst:	AR	AR	AR	AR
Method:	8011/504	8011/504	8011/504	8011/504
Dilution Factor:	1	1	1	1
1,2-Dibromoethane(EDB)	< 0.02	< 0.02	< 0.02	< 0.02
Dibromochloropropane (DBCP)	< 0.02	< 0.02	< 0.02	< 0.02
1,1,1,2-Tetrachloroethane (surr)	91 %R	87 %R	94 %R	91 %R



LABORATORY REPORT

EAI ID#: **258607**

Client: **Sanborn, Head & Associates, Inc. (NH)**
Client Designation: **Granite State LF | Groundwater | 1003.24**

Sample ID: MW-44R_20230412

Lab Sample ID: 258607.05
Matrix: aqueous
Date Sampled: 4/12/23
Date Received: 4/13/23
Units: ug/L
Date of Extraction/Prep: 4/14/23
Date of Analysis: 4/14/23
Analyst: AR
Method: 8011/504
Dilution Factor: 1
1,2-Dibromoethane(EDB) < 0.02
Dibromochloropropane (DBCP) < 0.02
1,1,1,2-Tetrachloroethane (surr) **94 %R**



QC REPORT

EAI ID#: **258607**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Batch ID: 638170-58237/A041423E5042

Client Designation: **Granite State LF | Groundwater | 1003.24**

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
1,2-Dibromoethane(EDB)	< 0.02	0.089 (89 %R)	0.087 (87 %R) (3 RPD)	4/14/2023	ug/L	70 - 130	20	8011/504
Dibromochloropropane (DBCP)	< 0.02	0.092 (92 %R)	0.094 (94 %R) (1 RPD)	4/14/2023	ug/L	70 - 130	20	8011/504
1,1,1,2-Tetrachloroethane (surr)	77 %R	76 %R	84 %R	4/14/2023	% Rec	65 - 135	20	8011/504

*! Flagged analyte recoveries deviated from the QA/QC limits. Data that impacts sample results are noted on the sample report.



LABORATORY REPORT

EAI ID#: 258607

Client: Sanborn, Head & Associates, Inc. (NH)

Client Designation: Granite State LF | Groundwater | 1003.24

Sample ID:	MW-6_20230412	MW -14_20230412	MW -19_20230412	MW -44_20230412		Analysis			
Lab Sample ID:	258607.01	258607.02	258607.03	258607.04	Units	Date	Time	Method	Analyst
Matrix:	aqueous	aqueous	aqueous	aqueous					
Date Sampled:	4/12/23	4/12/23	4/12/23	4/12/23					
Date Received:	4/13/23	4/13/23	4/13/23	4/13/23					
Sulfate	4.5	4.9	13	2.3	mg/L	04/13/23	13:39	300.0	ALM
Chloride	< 1	< 1	< 1	< 1	mg/L	04/13/23	13:39	300.0	ALM
Nitrate-N	< 0.5	< 0.5	< 0.5	< 0.5	mg/L	04/13/23	13:39	300.0	ALM
TKN	< 0.5	< 0.5	< 0.5	< 0.5	mg/L	04/17/23	16:17	4500N _{org} C/NH3D	GRS
COD	< 10	< 10	< 10	< 10	mg/L	04/18/23	11:00	H8000	JCS
Dissolved Organic Carbon	3.2	4.9	1.1	1.4	mg/L	04/20/23	11:21	5310C-11	LO

Sample ID: MW-44R_20230412

Lab Sample ID:	258607.05		Analysis			
Matrix:	aqueous	Units	Date	Time	Method	Analyst
Date Sampled:	4/12/23					
Date Received:	4/13/23					
Sulfate	3.8	mg/L	04/13/23	14:37	300.0	ALM
Chloride	< 1	mg/L	04/13/23	14:37	300.0	ALM
Nitrate-N	< 0.5	mg/L	04/13/23	14:37	300.0	ALM
TKN	< 0.5	mg/L	04/17/23	16:28	4500N _{org} C/NH3D	GRS
COD	< 10	mg/L	04/18/23	11:00	H8000	JCS
Dissolved Organic Carbon	1.0	mg/L	04/20/23	12:15	5310C-11	LO



QC REPORT

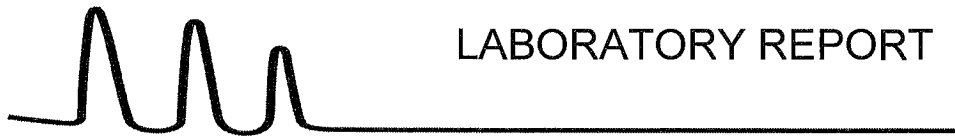
EAI ID#: 258607

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Granite State LF | Groundwater | 1003.24**

Parameter Name	Blank	LCS	LCSD	Units	Date of Analysis	Limits	RPD	Method
Sulfate	< 1	21 (103 %R)	21 (103 %R) (1 RPD)	mg/L	4/14/23	90 - 110	20	300.0
Chloride	< 1	20 (102 %R)	20 (101 %R) (1 RPD)	mg/L	4/14/23	90 - 110	20	300.0
Nitrate-N	< 0.5	2.0 (98 %R)	1.9 (96 %R) (1 RPD)	mg/L	4/14/23	90 - 110	20	300.0
TKN	< 0.5	9.8 (98 %R)	10 (102 %R) (4 RPD)	mg/L	4/17/23	90 - 111	20	4500N _{org} C/NH3D-11
COD	< 10	99 (99 %R)	110 (105 %R) (6 RPD)	mg/L	4/18/23	85 - 115	20	H8000
Dissolved Organic Carbon	< 0.5	5.1 (103 %R)	5.1 (101 %R) (1 RPD)	mg/L	4/20/23	90 - 110	20	5310C-11

*! Flagged analyte recoveries deviated from the QA/QC limits. Unless noted, flagged data does not impact the sample data.



LABORATORY REPORT

EAI ID#: 258607

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Granite State LF | Groundwater | 1003.24**

Sample ID: MW-6_20230412

Lab Sample ID: 258607.01

Matrix: aqueous

Date Sampled: 4/12/23

Date Received: 4/13/23

Iron < 0.05

Manganese < 0.005

Analytical Matrix	Units	Date of Analysis	Method	Analyst
AqDis	mg/L	4/14/23	200.8	DS
AqDis	mg/L	4/14/23	200.8	DS



LABORATORY REPORT

EAI ID#: **258607**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Granite State LF | Groundwater | 1003.24**

Sample ID:	MW -19_20230412	MW -44_20230412	MW 2				
Lab Sample ID:	258607.02	258607.03	258607.04				
Matrix:	aqueous	aqueous	aqueous				
Date Sampled:	4/12/23	4/12/23	4/12/23				
Date Received:	4/13/23	4/13/23	4/13/23				
				Analytical Matrix	Units	Date of Analysis	Method Analyst
Aluminum	0.068	< 0.05	0.15	AqDis	mg/L	4/14/23	200.8 DS
Antimony	< 0.001	< 0.001	< 0.001	AqDis	mg/L	4/14/23	200.8 DS
Arsenic	0.0012	< 0.0005	< 0.0005	AqDis	mg/L	4/14/23	200.8 DS
Barium	0.040	0.019	0.010	AqDis	mg/L	4/14/23	200.8 DS
Beryllium	< 0.001	< 0.001	< 0.001	AqDis	mg/L	4/14/23	200.8 DS
Calcium	8.2	24	1.4	AqDis	mg/L	4/14/23	200.8 DS
Cadmium	< 0.001	< 0.001	< 0.001	AqDis	mg/L	4/14/23	200.8 DS
Chromium	< 0.001	< 0.001	< 0.001	AqDis	mg/L	4/14/23	200.8 DS
Copper	0.0017	< 0.001	< 0.001	AqDis	mg/L	4/14/23	200.8 DS
Iron	2.9	< 0.05	< 0.05	AqDis	mg/L	4/14/23	200.8 DS
Lead	< 0.001	< 0.001	< 0.001	AqDis	mg/L	4/14/23	200.8 DS
Manganese	0.22	< 0.005	0.0063	AqDis	mg/L	4/14/23	200.8 DS
Nickel	< 0.001	< 0.001	< 0.001	AqDis	mg/L	4/14/23	200.8 DS
Selenium	< 0.001	< 0.001	< 0.001	AqDis	mg/L	4/14/23	200.8 DS
Silver	< 0.001	< 0.001	< 0.001	AqDis	mg/L	4/14/23	200.8 DS
Thallium	< 0.001	< 0.001	< 0.001	AqDis	mg/L	4/14/23	200.8 DS
Zinc	0.014	0.0085	0.013	AqDis	mg/L	4/14/23	200.8 DS



LABORATORY REPORT

EAI ID#: **258607**

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Granite State LF | Groundwater | 1003.24**

Sample ID: MW-44R_20230412

Lab Sample ID: 258607.05

Matrix: aqueous

Date Sampled: 4/12/23

Date Received: 4/13/23

		Analytical Matrix	Units	Date of Analysis	Method	Analyst
Aluminum	0.43	AqTot	mg/L	4/18/23	200.8	DS
Antimony	< 0.001	AqTot	mg/L	4/18/23	200.8	DS
Arsenic	< 0.0005	AqTot	mg/L	4/18/23	200.8	DS
Barium	0.014	AqTot	mg/L	4/18/23	200.8	DS
Beryllium	< 0.001	AqTot	mg/L	4/18/23	200.8	DS
Calcium	16	AqTot	mg/L	4/18/23	200.8	DS
Cadmium	< 0.001	AqTot	mg/L	4/18/23	200.8	DS
Chromium	< 0.001	AqTot	mg/L	4/18/23	200.8	DS
Copper	0.0011	AqTot	mg/L	4/18/23	200.8	DS
Iron	0.54	AqTot	mg/L	4/18/23	200.8	DS
Lead	< 0.001	AqTot	mg/L	4/18/23	200.8	DS
Manganese	0.026	AqTot	mg/L	4/18/23	200.8	DS
Nickel	< 0.001	AqTot	mg/L	4/18/23	200.8	DS
Selenium	< 0.001	AqTot	mg/L	4/18/23	200.8	DS
Silver	< 0.001	AqTot	mg/L	4/18/23	200.8	DS
Thallium	< 0.001	AqTot	mg/L	4/18/23	200.8	DS
Zinc	< 0.005	AqTot	mg/L	4/18/23	200.8	DS



QC REPORT

EAI ID#: 258607

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Granite State LF | Groundwater | 1003.24**

Parameter Name	Blank	LCS	LCSD	Units	Date of Analysis	Limits	RPD	Method
Aluminum (Aqdis)	< 0.05	10 (102 %R)		NA mg/L	4/15/23	85 - 115	20	200.8
Aluminum (Aqtot)	< 0.05	11 (108 %R)		NA mg/L	4/18/23	85 - 115	20	200.8
Antimony (Aqdis)	< 0.001	0.10 (102 %R)		NA mg/L	4/15/23	85 - 115	20	200.8
Antimony (Aqtot)	< 0.001	0.12 (117 %R)		NA mg/L	4/18/23	85 - 115	20	200.8
Arsenic (Aqdis)	< 0.0005	0.098 (98 %R)		NA mg/L	4/15/23	85 - 115	20	200.8
Arsenic (Aqtot)	< 0.0005	0.44 (110 %R)		NA mg/L	4/18/23	85 - 115	20	200.8
Barium (Aqdis)	< 0.001	0.099 (99 %R)		NA mg/L	4/15/23	85 - 115	20	200.8
Barium (Aqtot)	< 0.001	0.45 (112 %R)		NA mg/L	4/18/23	85 - 115	20	200.8
Beryllium (Aqdis)	< 0.001	0.097 (97 %R)		NA mg/L	4/15/23	85 - 115	20	200.8
Beryllium (Aqtot)	< 0.001	0.47 (117 %R)		NA mg/L	4/18/23	85 - 115	20	200.8
Calcium (Aqdis)	< 0.05	9.6 (96 %R)		NA mg/L	4/15/23	85 - 115	20	200.8
Calcium (Aqtot)	< 0.05	10 (104 %R)		NA mg/L	4/18/23	85 - 115	20	200.8
Cadmium (Aqdis)	< 0.001	0.10 (100 %R)		NA mg/L	4/15/23	85 - 115	20	200.8
Cadmium (Aqtot)	< 0.001	0.43 (108 %R)		NA mg/L	4/18/23	85 - 115	20	200.8
Chromium (Aqdis)	< 0.001	0.094 (94 %R)		NA mg/L	4/15/23	85 - 115	20	200.8
Chromium (Aqtot)	< 0.001	0.43 (107 %R)		NA mg/L	4/18/23	85 - 115	20	200.8
Copper (Aqdis)	< 0.001	0.093 (93 %R)		NA mg/L	4/15/23	85 - 115	20	200.8
Copper (Aqtot)	< 0.001	0.42 (106 %R)		NA mg/L	4/18/23	85 - 115	20	200.8
Iron (Aqdis)	< 0.05	9.9 (99 %R)		NA mg/L	4/15/23	85 - 115	20	200.8
Iron (Aqtot)	< 0.05	11 (112 %R)		NA mg/L	4/18/23	85 - 115	20	200.8
Lead (Aqdis)	< 0.001	0.098 (98 %R)		NA mg/L	4/15/23	85 - 115	20	200.8
Lead (Aqtot)	< 0.001	0.44 (110 %R)		NA mg/L	4/18/23	85 - 115	20	200.8
Manganese (Aqdis)	< 0.005	0.096 (96 %R)		NA mg/L	4/15/23	85 - 115	20	200.8
Manganese (Aqtot)	< 0.005	0.43 (106 %R)		NA mg/L	4/18/23	85 - 115	20	200.8
Nickel (Aqdis)	< 0.001	0.095 (95 %R)		NA mg/L	4/15/23	85 - 115	20	200.8
Nickel (Aqtot)	< 0.001	0.43 (107 %R)		NA mg/L	4/18/23	85 - 115	20	200.8
Selenium (Aqdis)	< 0.001	0.098 (98 %R)		NA mg/L	4/15/23	85 - 115	20	200.8
Selenium (Aqtot)	< 0.001	0.44 (111 %R)		NA mg/L	4/18/23	85 - 115	20	200.8
Silver (Aqdis)	< 0.001	0.0096 (96 %R)		NA mg/L	4/15/23	85 - 115	20	200.8
Silver (Aqtot)	< 0.001	0.022 (110 %R)		NA mg/L	4/18/23	85 - 115	20	200.8
Thallium (Aqdis)	< 0.001	0.098 (98 %R)		NA mg/L	4/15/23	85 - 115	20	200.8
Thallium (Aqtot)	< 0.001	0.44 (109 %R)		NA mg/L	4/18/23	85 - 115	20	200.8
Zinc (Aqdis)	< 0.005	0.098 (98 %R)		NA mg/L	4/15/23	85 - 115	20	200.8
Zinc (Aqtot)	< 0.005	0.45 (113 %R)		NA mg/L	4/18/23	85 - 115	20	200.8

The Aqueous Total laboratory control sample for Antimony and Beryllium did not meet the acceptance criteria. The high bias has no impact on the data reported as no Antimony or Beryllium was found in any of the samples.

*! Flagged analyte recoveries deviated from the QA/QC limits. Unless noted, flagged data does not impact the sample data.



Eastern Analytical, Inc.

professional laboratory and drilling services

Lilly Corenthal
Sanborn, Head & Associates, Inc. (NH)
6 Bedford Farms Drive, Suite 201
Bedford, NH 03110



Subject: Laboratory Report

Eastern Analytical, Inc. ID: 258608
Client Identification: Granite State LF | PFAS | 1003.24
Date Received: 4/13/2023

Dear Corenthal :

Enclosed please find the report of analysis for the above identified project. As discussed, analyses were subcontracted and are listed as follows:

Analysis: Subcontract - PFAS EPA 537mod (9 Compounds)

Subcontractor Lab: Enthalpy Analytical

A complete copy of the report is attached. This report may not be reproduced except in full, without the written approval of the laboratory.

We appreciate this opportunity to be of service and look forward to your continued patronage.

Sincerely,

Lorraine Olashaw, Lab Director

5. 4. 23

Date



SAMPLE CONDITIONS PAGE

EAI ID#: 258608

Client: **Sanborn, Head & Associates, Inc. (NH)**

Client Designation: **Granite State LF | PFAS | 1003.24**

Temperature upon receipt (°C): 4.1

Received on ice or cold packs (Yes/No): Y

Acceptable temperature range (°C): 0-6

Lab ID	Sample ID	Date Received	Date/Time Sampled	Sample Matrix	% Dry Weight	Exceptions/Comments (other than thermal preservation)
258608.01	MW-14_20230412	4/13/23	4/12/23 12:10	aqueous		Adheres to Sample Acceptance Policy
258608.02	FB-01_20230412	4/13/23	4/12/23 11:55	aqueous		Adheres to Sample Acceptance Policy

All results contained in this report relate only to the above listed samples.

Unless otherwise noted:

- Hold times, preservation, container types, and sample conditions adhered to EPA Protocol.
- Solid samples are reported on a dry weight basis, unless otherwise noted. pH/Corrosivity, Flashpoint, Ignitability, Paint Filter, Conductivity and Specific Gravity are always reported on an "as received" basis.
- Analysis of pH, Total Residual Chlorine, Dissolved Oxygen and Sulfite were performed at the laboratory outside of the recommended 15 minute hold time.
- Samples collected by Eastern Analytical, Inc. (EAI) were collected in accordance with approved EPA procedures.



April 28, 2023

**Enthalpy Analytical - El Dorado Hills
Work Order No. 2304173**

Ms. Jennifer Laramie
Eastern Analytical, Inc.
51 Antrim Avenue
Concord, NH 03301

Dear Ms. Laramie,

Enclosed are the results for the sample set received at Enthalpy Analytical - EDH on April 20, 2023 under your Project Name '258608 NH 5379'.

Enthalpy Analytical - EDH is committed to serving you effectively. If you require additional information, please contact me at 916-673-1520 or by email at rajwinder.kaur@enthalpy.com.

Thank you for choosing Enthalpy Analytical - EDH as part of your analytical support team.

Sincerely,

A handwritten signature in black ink that reads 'Rajwinder Kaur'.

Rajwinder Kaur
Project Manager



Enthalpy Analytical -EDH certifies that the report herein meets all the requirements set forth by NELAP for those applicable test methods. Results relate only to the samples as received by the laboratory. This report should not be reproduced except in full without the written approval of Enthalpy Analytical -EDH.

Enthalpy Analytical - EDH Work Order No. 2304173

Case Narrative

Sample Condition on Receipt:

Two aqueous samples were received and stored securely in accordance with Enthalpy Analytical - EDH standard operating procedures and EPA methodology. The samples were received in good condition and within the recommended temperature requirements. Sample ID discrepancies were noted for the samples between the container labels and the Chain-of-Custody (CoC). The sample IDs have been reported as listed on the CoC.

Analytical Notes:

PFAS Isotope Dilution/LC-MSMS Method Compliant with Table B-15 of DoD QSM 5.4 (Aqueous)

The samples were extracted and analyzed for a selected list of PFAS using Isotope Dilution and LC-MS/MS compliant with Table B-15 of DoD QSM 5.4. The results for PFHxS, PFOA and PFOS include both linear and branched isomers. Results for all other analytes include the linear isomers only.

Holding Times

The samples were extracted and analyzed within the hold times.

Quality Control

The Initial Calibration and Continuing Calibration Verifications met the method acceptance criteria.

A Method Blank and Ongoing Precision and Recovery (OPR) sample were extracted and analyzed with the preparation batch. No analytes were detected in the Method Blank above 1/2 the Reporting Limits (RL). The OPR recoveries were within the method acceptance criteria.

The labeled standard recoveries for all QC and field samples were within the acceptance criteria.

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Sample Inventory Report

Sample ID	Client Sample ID	Sampled	Received	Components/Containers
2304173-01	MW-14_20230412	12-Apr-23 12:10	20-Apr-23 11:10	Polypropylene, 250mL
2304173-02	FB-01_20230412	12-Apr-23 11:55	20-Apr-23 11:10	Polypropylene, 250mL

ANALYTICAL RESULTS

Sample ID: Method Blank					PFAS Isotope Dilution Table B-15					
Client Data				Laboratory Data						
Name:	Eastern Analytical, Inc.	Matrix:	Aqueous	Lab Sample:	B23D233-BLK1	Column:	BEH C18			
Project:	258608 NH 5379									
Analyte	CAS Number	Conc. (ng/L)	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
PFBA	375-22-4	ND	2.00		B23D233	24-Apr-23	0.250 L	25-Apr-23 16:40	1	
PFPeA	2706-90-3	ND	2.00		B23D233	24-Apr-23	0.250 L	25-Apr-23 16:40	1	
PFBS	375-73-5	ND	2.00		B23D233	24-Apr-23	0.250 L	25-Apr-23 16:40	1	
PFHxA	307-24-4	ND	2.00		B23D233	24-Apr-23	0.250 L	25-Apr-23 16:40	1	
PFHpA	375-85-9	ND	2.00		B23D233	24-Apr-23	0.250 L	25-Apr-23 16:40	1	
PFHxS	355-46-4	ND	2.00		B23D233	24-Apr-23	0.250 L	25-Apr-23 16:40	1	
PFOA	335-67-1	ND	2.00		B23D233	24-Apr-23	0.250 L	25-Apr-23 16:40	1	
PFNA	375-95-1	ND	2.00		B23D233	24-Apr-23	0.250 L	25-Apr-23 16:40	1	
PFOS	1763-23-1	ND	2.00		B23D233	24-Apr-23	0.250 L	25-Apr-23 16:40	1	
Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
13C3-PFBA	IS	98.8	50 - 150		B23D233	24-Apr-23	0.250 L	25-Apr-23 16:40	1	
13C3-PFPeA	IS	109	50 - 150		B23D233	24-Apr-23	0.250 L	25-Apr-23 16:40	1	
13C3-PFBS	IS	111	50 - 150		B23D233	24-Apr-23	0.250 L	25-Apr-23 16:40	1	
13C2-PFHxA	IS	110	50 - 150		B23D233	24-Apr-23	0.250 L	25-Apr-23 16:40	1	
13C4-PFHpA	IS	117	50 - 150		B23D233	24-Apr-23	0.250 L	25-Apr-23 16:40	1	
13C3-PFHxS	IS	122	50 - 150		B23D233	24-Apr-23	0.250 L	25-Apr-23 16:40	1	
13C2-PFOA	IS	111	50 - 150		B23D233	24-Apr-23	0.250 L	25-Apr-23 16:40	1	
13C5-PFNA	IS	110	50 - 150		B23D233	24-Apr-23	0.250 L	25-Apr-23 16:40	1	
13C8-PFOS	IS	104	50 - 150		B23D233	24-Apr-23	0.250 L	25-Apr-23 16:40	1	

RL - Reporting limit

Results reported to RL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: OPR

PFAS Isotope Dilution Table B-15

Client Data					Laboratory Data						
Name:	Eastern Analytical, Inc.	Matrix:	Aqueous		Lab Sample:	B23D233-BS1	Column:	BEH C18			
Project:	258608 NH 5379										
Analyte	CAS Number	Amt Found (ng/L)	Spike Amt	% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	36.2	40.0	90.6	73 - 129		B23D233	24-Apr-23	0.250 L	25-Apr-23 16:51	1
PFPeA	2706-90-3	36.8	40.0	91.9	72 - 129		B23D233	24-Apr-23	0.250 L	25-Apr-23 16:51	1
PFBS	375-73-5	33.8	40.0	84.4	72 - 130		B23D233	24-Apr-23	0.250 L	25-Apr-23 16:51	1
PFHxA	307-24-4	36.9	40.0	92.2	72 - 129		B23D233	24-Apr-23	0.250 L	25-Apr-23 16:51	1
PFHpA	375-85-9	36.3	40.0	90.8	72 - 130		B23D233	24-Apr-23	0.250 L	25-Apr-23 16:51	1
PFHxS	355-46-4	35.3	40.0	88.3	68 - 131		B23D233	24-Apr-23	0.250 L	25-Apr-23 16:51	1
PFOA	335-67-1	38.2	40.0	95.5	71 - 133		B23D233	24-Apr-23	0.250 L	25-Apr-23 16:51	1
PFNA	375-95-1	36.0	40.0	89.9	69 - 130		B23D233	24-Apr-23	0.250 L	25-Apr-23 16:51	1
PFOS	1763-23-1	32.6	40.0	81.5	65 - 140		B23D233	24-Apr-23	0.250 L	25-Apr-23 16:51	1
Labeled Standards		Type		% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA		IS		106	50 - 150		B23D233	24-Apr-23	0.250 L	25-Apr-23 16:51	1
13C3-PFPeA		IS		113	50 - 150		B23D233	24-Apr-23	0.250 L	25-Apr-23 16:51	1
13C3-PFBS		IS		128	50 - 150		B23D233	24-Apr-23	0.250 L	25-Apr-23 16:51	1
13C2-PFHxA		IS		115	50 - 150		B23D233	24-Apr-23	0.250 L	25-Apr-23 16:51	1
13C4-PFHpA		IS		118	50 - 150		B23D233	24-Apr-23	0.250 L	25-Apr-23 16:51	1
13C3-PFHxS		IS		118	50 - 150		B23D233	24-Apr-23	0.250 L	25-Apr-23 16:51	1
13C2-PFOA		IS		113	50 - 150		B23D233	24-Apr-23	0.250 L	25-Apr-23 16:51	1
13C5-PFNA		IS		114	50 - 150		B23D233	24-Apr-23	0.250 L	25-Apr-23 16:51	1
13C8-PFOS		IS		111	50 - 150		B23D233	24-Apr-23	0.250 L	25-Apr-23 16:51	1

Sample ID: MW-14_20230412

PFAS Isotope Dilution Table B-15

Client Data				Laboratory Data			
Name:	Eastern Analytical, Inc.	Matrix:	Aqueous	Lab Sample:	2304173-01	Column:	BEH C18
Project:	258608 NH 5379	Date Collected:	12-Apr-23 12:10	Date Received:	20-Apr-23 11:10		
Location:	258608						

Analyte	CAS Number	Conc. (ng/L)	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	ND	1.98		B23D233	24-Apr-23	0.252 L	25-Apr-23 19:16	1
PFPeA	2706-90-3	ND	1.98		B23D233	24-Apr-23	0.252 L	25-Apr-23 19:16	1
PFBS	375-73-5	ND	1.98		B23D233	24-Apr-23	0.252 L	25-Apr-23 19:16	1
PFHxA	307-24-4	ND	1.98		B23D233	24-Apr-23	0.252 L	25-Apr-23 19:16	1
PFHpA	375-85-9	ND	1.98		B23D233	24-Apr-23	0.252 L	25-Apr-23 19:16	1
PFHxS	355-46-4	ND	1.98		B23D233	24-Apr-23	0.252 L	25-Apr-23 19:16	1
PFOA	335-67-1	ND	1.98		B23D233	24-Apr-23	0.252 L	25-Apr-23 19:16	1
PFNA	375-95-1	ND	1.98		B23D233	24-Apr-23	0.252 L	25-Apr-23 19:16	1
PFOS	1763-23-1	ND	1.98		B23D233	24-Apr-23	0.252 L	25-Apr-23 19:16	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	104	50 - 150		B23D233	24-Apr-23	0.252 L	25-Apr-23 19:16	1
13C3-PFPeA	IS	117	50 - 150		B23D233	24-Apr-23	0.252 L	25-Apr-23 19:16	1
13C3-PFBS	IS	123	50 - 150		B23D233	24-Apr-23	0.252 L	25-Apr-23 19:16	1
13C2-PFHxA	IS	117	50 - 150		B23D233	24-Apr-23	0.252 L	25-Apr-23 19:16	1
13C4-PFHpA	IS	118	50 - 150		B23D233	24-Apr-23	0.252 L	25-Apr-23 19:16	1
13C3-PFHxS	IS	124	50 - 150		B23D233	24-Apr-23	0.252 L	25-Apr-23 19:16	1
13C2-PFOA	IS	119	50 - 150		B23D233	24-Apr-23	0.252 L	25-Apr-23 19:16	1
13C5-PFNA	IS	117	50 - 150		B23D233	24-Apr-23	0.252 L	25-Apr-23 19:16	1
13C8-PFOS	IS	116	50 - 150		B23D233	24-Apr-23	0.252 L	25-Apr-23 19:16	1

RL - Reporting limit

Results reported to RL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: FB-01_20230412 PFAS Isotope Dilution Table B-15

Client Data				Laboratory Data			
Name:	Eastern Analytical, Inc.	Matrix:	Aqueous	Lab Sample:	2304173-02	Column:	BEH C18
Project:	258608 NH 5379	Date Collected:	12-Apr-23 11:55	Date Received:	20-Apr-23 11:10		
Location:	258608						

Analyte	CAS Number	Conc. (ng/L)	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	ND	1.97		B23D233	24-Apr-23	0.253 L	25-Apr-23 19:27	1
PFPeA	2706-90-3	ND	1.97		B23D233	24-Apr-23	0.253 L	25-Apr-23 19:27	1
PFBS	375-73-5	ND	1.97		B23D233	24-Apr-23	0.253 L	25-Apr-23 19:27	1
PFHxA	307-24-4	ND	1.97		B23D233	24-Apr-23	0.253 L	25-Apr-23 19:27	1
PFHpA	375-85-9	ND	1.97		B23D233	24-Apr-23	0.253 L	25-Apr-23 19:27	1
PFHxS	355-46-4	ND	1.97		B23D233	24-Apr-23	0.253 L	25-Apr-23 19:27	1
PFOA	335-67-1	ND	1.97		B23D233	24-Apr-23	0.253 L	25-Apr-23 19:27	1
PFNA	375-95-1	ND	1.97		B23D233	24-Apr-23	0.253 L	25-Apr-23 19:27	1
PFOS	1763-23-1	ND	1.97		B23D233	24-Apr-23	0.253 L	25-Apr-23 19:27	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	105	50 - 150		B23D233	24-Apr-23	0.253 L	25-Apr-23 19:27	1
13C3-PFPeA	IS	115	50 - 150		B23D233	24-Apr-23	0.253 L	25-Apr-23 19:27	1
13C3-PFBS	IS	123	50 - 150		B23D233	24-Apr-23	0.253 L	25-Apr-23 19:27	1
13C2-PFHxA	IS	118	50 - 150		B23D233	24-Apr-23	0.253 L	25-Apr-23 19:27	1
13C4-PFHpA	IS	119	50 - 150		B23D233	24-Apr-23	0.253 L	25-Apr-23 19:27	1
13C3-PFHxS	IS	121	50 - 150		B23D233	24-Apr-23	0.253 L	25-Apr-23 19:27	1
13C2-PFOA	IS	115	50 - 150		B23D233	24-Apr-23	0.253 L	25-Apr-23 19:27	1
13C5-PFNA	IS	114	50 - 150		B23D233	24-Apr-23	0.253 L	25-Apr-23 19:27	1
13C8-PFOS	IS	109	50 - 150		B23D233	24-Apr-23	0.253 L	25-Apr-23 19:27	1

RL - Reporting limit

Results reported to RL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

DATA QUALIFIERS & ABBREVIATIONS

B	This compound was also detected in the method blank
Conc.	Concentration
CRS	Cleanup Recovery Standard
D	Dilution
DL	Detection Limit
E	The associated compound concentration exceeded the calibration range of the instrument
H	Recovery and/or RPD was outside laboratory acceptance limits
I	Chemical Interference
IS	Internal Standard
J	The amount detected is below the Reporting Limit/LOQ
LOD	Limit of Detection
LOQ	Limit of Quantitation
M	Estimated Maximum Possible Concentration (CA Region 2 projects only)
MDL	Method Detection Limit
NA	Not applicable
ND	Not Detected
OPR	Ongoing Precision and Recovery sample
P	The reported concentration may include contribution from chlorinated diphenyl ether(s).
Q	The ion transition ratio is outside of the acceptance criteria.
RL	Reporting Limit
RL	For 537.1, the reported RLs are the MRLs.
TEQ	Toxic Equivalency, sum of the toxic equivalency factors (TEF) multiplied by the sample concentrations.
TEQMax	TEQ calculation that uses the detection limit as the concentration for non-detects
TEQMin	TEQ calculation that uses zero as the concentration for non-detects
TEQRisk	TEQ calculation that uses ½ the detection limit as the concentration for non-detects
U	Not Detected (specific projects only)
*	See Cover Letter

Unless otherwise noted, solid sample results are reported in dry weight. Tissue samples are reported in wet weight.

Enthalpy Analytical Laboratory Certifications

Accrediting Authority	Certificate Number
Alaska Department of Environmental Conservation	17-013
Arkansas Department of Environmental Quality	21-023-0
California Department of Health – ELAP	2892
DoD ELAP - A2LA Accredited - ISO/IEC 17025	3091.01
Florida Department of Health	E87777
Hawaii Department of Health	N/A
Louisiana Department of Environmental Quality	01977
Maine Department of Health	2020018
Massachusetts Department of Environmental Protection	M-CA413
Michigan Department of Environmental Quality	9932
Minnesota Department of Health	2211390
New Hampshire Environmental Accreditation Program	207721
New Jersey Department of Environmental Protection	CA003
New York Department of Health	11411
Ohio Environmental Protection Agency	87778
Oregon Laboratory Accreditation Program	4042-021
Texas Commission on Environmental Quality	T104704189-22-13
Vermont Department of Health	VT-4042
Virginia Department of General Services	11276
Washington Department of Ecology	C584
Wisconsin Department of Natural Resources	998036160

Current certificates and lists of licensed parameters are located in the Quality Assurance office and are available upon request.

CHAIN-OF-CUSTODY RECORD

EAI ID# **258608**

Page 1

Sample ID	Date Sampled	Matrix	aParameters	Sample Notes
MW-14_20230412	4/12/2023 12:10	aqueous	Subcontract - Perfluorinated Compounds EPA Method 537mod (9 Compounds)	2304173 5.0°C
FB-01_20230412	4/12/2023 11:55	aqueous	Subcontract - Perfluorinated Compounds EPA Method 537mod (9 Compounds)	

EAI ID# **258608** Project State: NH
 Project ID: 5379
 Company Vista Analytical Laboratory
 Address 1104 Windfield Way
 Address El Dorado Hills, CA 95762
 Account #
 Phone # (916) 673-1520

Results Needed: Preferred Date: Standard
 RUSH Due Date: _____
QC Deliverables
 A A+ B B+ C MA MCP
Notes about project:
 Email login confirmation, pdf of results and invoice to customerservice@easternanalytical.com.
 PFAS by Method 537 modified with Isotope Dilution. NHDES 9 Compound List. Report Sulfonic Acids. RLs ~4ng/L

PO #: 59629 EAI ID# **258608**
Data Deliverable (circle)
 Excel NH EMD EQUIS ME EGAD
 Call prior to analyzing, if RUSH charges will be applied.
 Samples Collected by: _____
 Relinquished by _____ Date/Time 4/19/23 1600 UPS
 Received by _____
 Relinquished by UPS 04/20/23 1110 Kelia Wadsworth
 Received by _____

Eastern Analytical, Inc. 51 Antrim Ave Concord, NH 03301 Phone: (603)228-0525 1-800-287-0525 customerservice@easternanalytical.com

As a subcontract lab to EAI, you will defend, indemnify and hold Eastern Analytical, Inc., its officers, employees, and agents harmless from and against any and all liability, loss, expense or claims for injury or damages arising out of the performance against this chain of custody but only in proportion to and to the extent such liability, loss, expense, or claims for injury or damages are caused by or result from the negligent or intentional acts or omissions of you as a subcontract lab, your officers, agents or employees

Sample Log-In Checklist



Page # 1 of 1

Work Order #: 2304173 TAT 14 days

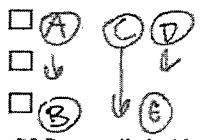
Samples Arrival:	Date/Time: <u>04/20/23 1110</u>	Initials: <u>KW</u>	Location: <u>WR-2</u>
			Shelf/Rack: <u>N/A</u>
Delivered By:	FedEx	<u>UPS</u>	On Trac
		GLS	DHL
		Hand Delivered	Other
Preservation:	<u>Ice</u>	Blue Ice	Techni Ice
		Dry Ice	None
Temp °C: <u>6.4</u> (uncorrected)	Probe used: Y / <u>N</u>		Thermometer ID: <u>IR-4</u>
Temp °C: <u>5.0</u> (corrected)			

	YES	NO	NA
Shipping Container(s) Intact?	<input checked="" type="checkbox"/>		
Shipping Custody Seals Intact?		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Airbill <u>/</u> Trk # <u>1Z X46 599 01 9842 6585</u>	<input checked="" type="checkbox"/>		
Shipping Documentation Present?	<input checked="" type="checkbox"/>		
Shipping Container	<u>Enthalpy</u>	Client	<u>Retain</u>
	Return	Dispose	
Chain of Custody / Sample Documentation Present?	<input checked="" type="checkbox"/>		
Chain of Custody / Sample Documentation Complete?	<input checked="" type="checkbox"/>		
Holding Time Acceptable?	<input checked="" type="checkbox"/>		
Logged In:	Date/Time: <u>04/20/23 13:45</u>	Initials: <u>JK</u>	Location: <u>R-13, WR-2</u>
			Shelf/Rack: <u>A-3, B-4</u>
COC Anomaly/Sample Acceptance Form completed?	<input checked="" type="checkbox"/>		

Comments:

CoC/Label Reconciliation Report WO# 2304173

LabNumber	CoC Sample ID	Sample Alias	Sample Date/Time	Container	BaseMatrix	Sample Comments
2304173-01	A MW-14_20230412	258608	12-Apr-23 12:10	Polypropylene, 250mL	Aqueous	
2304173-01	B MW-14_20230412	258608	12-Apr-23 12:10	Polypropylene, 250mL	Aqueous	
2304173-02	A FB-01_20230412	258608	12-Apr-23 11:55	Polypropylene, 250mL	Aqueous	Field Blank



Checkmarks indicate that information on the COC reconciled with the sample label.
Any discrepancies are noted in the following columns.

	Yes	No	NA
Sample Container Intact?	/		
Sample Custody Seals Intact?		/	/
Adequate Sample Volume?	/		
Container Type Appropriate for Analysis(es)	/		

Comments: (A) sample label ID: MW-14
 (B) sample label FB-01
 (C) sample was vial first
 (E) no backup volume

Preservation Documented: Na2S2O3 Trizma NH4CH3CO2 None Other
 T6 (C)

Verified by/Date: NH 04/21/23
 MNS 04/21/23



ANOMALY FORM

Work Order # 2304173

Initial/Date _____ The following checked issues were noted during sample receipt and login:

- _____ 1. The samples were received out of temperature at (WI-PHT): _____
Was Ice present: Yes No Melted Blue Ice
- _____ 2. The Chain-of-Custody (CoC) was not relinquished properly.
- _____ 3. The CoC did not include collection time(s). 00:00 will be used unless notified otherwise.
- _____ 4. The sample(s) did not include a sample collection time. All or Sample Name: _____
- 1/20/23 5. A sample ID discrepancy was found. See the Reconciliation report.
The CoC Sample ID will be used unless notified otherwise.
- _____ 6. A sample date and/or time discrepancy was found. See the Reconciliation report.
The CoC Sample date/time will be used unless notified otherwise.
- _____ 7. The CoC did not include a sample matrix. The following sample matrix will be used: _____
- _____ 8. Insufficient volume received for analysis. All or Sample Name: _____
- _____ 9. The backup bottle was received broken. Sample Name: _____
- _____ 10. CoC not received, illegible or destroyed.
- _____ 11. The sample(s) were received out of holding time. All or Sample Name: _____
- _____ 12. The CoC did not include an analysis. All or Sample Name: _____
- _____ 13. Sample(s) received without collection date. All or Sample Name: _____
- _____ 14. Sample(s) not received. All or Sample Name: _____
- _____ 15. Sample(s) received broken. All or Sample Name: _____
- _____ 16. An incorrect container-type was used. All or Sample Name: _____
- _____ 17. The Field Reagent Blank (FRB) preservative was from a different lot than the field samples.
Will proceed with analysis and narrate unless notified otherwise.
- _____ 18. Other: _____

Bolded items require sign-off

Client Contacted: _____

Date of Contact: _____

Lab Project Manager: _____

Resolution:

Chain-of-Custody Record

For **258608**

Sample ID	Sampling Date/Time *If Composite, Indicate Both Start & Finish Date/Time	Matrix (see below)	Grab/Composite	Analyses Requested																Field Turbidity (NTU)	# of Containers	NOTES MeOH Vial #			
				PFAS- Mod 537 - NHDES 9 Compound List																					
MW-14-20230412	4/12/23 12:10	GW	G	X																		21.4	2		
FB-01-20230412	4/12/23 11:55	GW	G	X																		-	2		
		GW	G																						
		GW	G																						
		GW	G																						
		GW	G																						
		AQ	G																						
Matrix: A-Air; S-Soil; GW-Ground Water; SW-Surface Water; DW-Drinking Water; WW-Waste Water; AQ-Aqueous; L-Leachate Preservative: H-HCl; N-HNO3; S-H2SO4; Na-NaOH; M-MeOH; NSO-Na2S2O3				ICE																					

Report standard project RLs (last rpt: Work Order # 249379)
~4 ng/L for all compounds

Project Manager: L. Corenthal
 Company: Sanborn, Head & Associates, Inc.
 Address: 20 Foundry Street
 City: Concord State: NH Zip: 03301
 Phone: 603-229-1900 Ext.:
 Fax: 603-229-1919
 E-Mail: lcorenthal@sanbornhead.com
 Site Name: Granite State LF | PFAS
 Project #: 1003.24
 State: NH
 Regulatory Program: NPDES: RGP POTW Stormwater or GWP, Oil Fund, Brownfield or Other:
 Quote #: PO#:

Date Needed: Standard TAT
 Temp. 4.1 °C
 QA/QC Reporting Level: A B C
 Reporting Options: Prelims: Yes or No; If Yes: Fax or PDF
 Electronic Options: No Fax | E-Mail | PDF | Equis
 Sampler(s): GAP, CLB
 Relinquished By: [Signature] Date: 4/12/23 Time: 11:40
 Relinquished By: [Signature] Date: 4/12/23-0812 Time: Received By:
 Relinquished By: [Signature] Date: 4/13/23-0835 Time: Received By:

Metals: Samples Field Filtered:
 A:
 B:
 C:
 Notes: (i.e., Special Detection Limits, Billing Info, If Diff)
 Bill GSL:
 1) Sub to Vista
 2) Please Report Sulfonic Acids
 3) PFAS by Method 537 modified with isotope dilution (NHDES 9 Compound List)
 Suspected Contamination:
 Field Readings:



Exhibit C

Traffic Study Report

**Granite State Landfill Development
Dalton, New Hampshire**

TRAFFIC STUDY

September 2023

Prepared for:

Granite State Landfill, LLC.
1855 Vermont Route 100
Hyde Park, VT 05655

Submitted to:

New Hampshire Department of Transportation
District 1 - Northern Region
641 Main Street, Lancaster NH 03584

Submitted by:

T.Y. Lin International
12 Northbrook Drive
Building A, Suite One
Falmouth, Maine 04105

TYLin

1.0 INTRODUCTION AND STUDY SCOPE OF ANALYSIS

Granite State Landfill, LLC. (GSL) is evaluating an existing industrial site located primarily in Dalton, New Hampshire for use as a solid waste disposal facility, including support infrastructure and renewable energy projects. The site has NH 116 frontage in the Town of Bethlehem and is accessed by an existing site road, Douglas Drive (See **Figure 1**). This report is an update of the July 2021 and June 2022 reports issued to the New Hampshire Department of Transportation (NHDOT) and reflects revisions based on a Request for Information from District 1 and comments from G.S. Thompson, P.E. of the Bureau of Traffic in 2021 and a Request for More Information from District 1 dated April 14, 2023.

This Traffic Study has been prepared in response to discussions at the February 20, 2020 Scoping Meeting for Traffic Impacts of Development at the NHDOT office in Concord. According to discussions at that meeting the following items shall be included in the Study (see **Appendix** for notes and attendees):

- Study Area: The study will include the site driveway / Douglas Drive at NH 116 in Bethlehem and the intersection of US 3 and NH 116 in Whitefield.
- The traffic analysis at the study area intersections should be focused on safely accommodating the proposed trucking traffic and would include turning lane warrants (based on NCHRP methodologies) and truck-turning templates. Although traditional capacity analysis is not necessary at the intersection of Douglas Drive at NH 116, it may be useful in evaluating possible design improvements at the intersection of US 3 and NH 116 in Whitefield.
- Analysis Periods: Weekday AM and PM.
- Opening Year / Future Year: Assumed to be 2028 / 2038 (Note: corrected error in meeting notes).
- Background growth / other development: Use 1 percent average annual background growth rate. No other background developments were identified.
- Site Trip Generation / Distribution / Pass-by: An approximate trip generation of 40± trucks per day on an average day and 90± trucks/day on a busy (peak summer day) was provided by Casella, based on current operations at the NCEC Bethlehem site. Truck transaction data at the existing site will be examined (including the vehicle classification) to provide a detailed estimate of trip generation at the proposed facility during peak summer conditions.
- Traffic data at the site driveway for the existing uses (gravel pit and dragstrip) will need to be collected or estimated.
- Design Considerations: NHDOT indicated that the traffic engineer (T.Y. Lin International) should give consideration to the (high) percentage of trucks when examining the need for turn-lanes.
- NHDOT requested that the proposed facility provide adequate internal queuing storage to accommodate trucking demands on site.

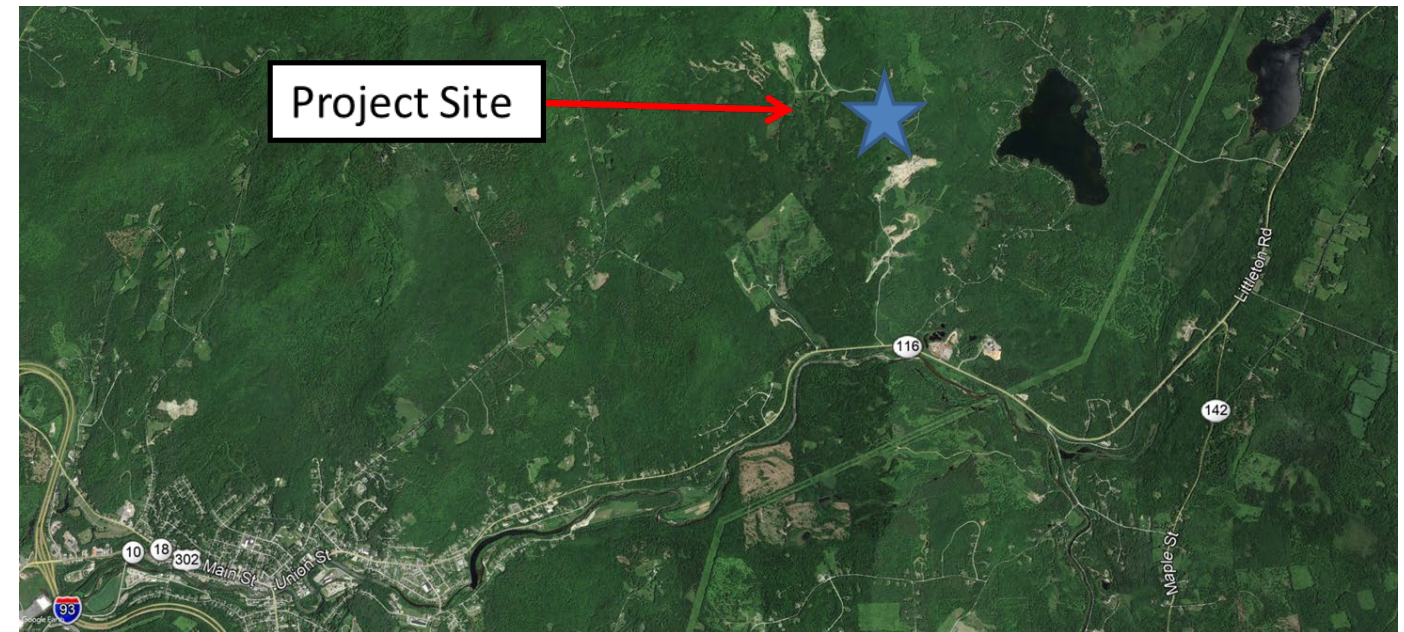


Figure 1: Site Location

2.0 EXISTING TRAFFIC VOLUMES

The following summarizes the development of existing base line traffic volumes developed for the study at the NH 116/Douglas Drive and NH 116/US 3 intersections. From an analysis perspective the focus is on peak hour conditions and for this study it has been identified as the Weekday AM and PM peak hours. Refer to the **Appendix** for detailed back up materials.

NH 116/Douglas Drive

Existing traffic volumes along NH 116 in the vicinity of Douglas Drive were obtained from several sources. Intersection turning movement counts were conducted on Tuesday May 18, 2021. Automatic Traffic Recorder counts were collected on NH 116 west of Douglas Drive from Wednesday June 21, 2023, through Saturday June 24, 2023 (the count on June 24th ended around 5PM). Lastly, Automatic Traffic Recorder counts were performed on Douglas Drive (entering and exiting traffic volumes) from Wednesday July 12, 2023, through Saturday July 15, 2023. Both ATR counts collected vehicle classification information. For this study the 2023 traffic data was used for analysis purposes, although the 2021 traffic information was used for distribution of traffic onto and off Douglas Drive.

Table 1 presents the results of the ATR count on NH 116 west of Douglas Drive on Wednesday June 21, 2023. As noted, NH 116 had a total daily volume of 5,384 vehicles. The AM peak hour occurred at 10AM and recorded 369 vehicles. The PM peak hour occurred at 3PM and recorded 467 vehicles. The ATR counts collected directional volumes and **Table 2** presents the directional volumes. As noted during the AM peak hour 159 vehicles traveled eastbound while 210 vehicles traveled westbound. During the PM peak hour 262 vehicles traveled eastbound and 205 vehicles traveled westbound. **Table 3** presents the results of the ATR count on Douglas Drive on Friday July 14, 2023. As noted, Douglas Drive had a total daily volume of 91 vehicles. The AM peak hour occurred at 10AM and recorded 13 vehicles. The PM peak hour occurred at 1PM and recorded 10 vehicles. The ATR counts collected directional volumes and **Table 4** presents the directional volumes. As noted during the AM peak hour 6 vehicles traveled northbound while 7 vehicles traveled southbound. During the PM peak hour 5 vehicles traveled northbound and 5 vehicles traveled southbound. The assignment of the Douglas Drive vehicles was based on the turning movement counts conducted on May 18, 2023. According to that count, 85% of the traffic turns left from the site during the AM peak hour and 75% turns right from the site during the PM peak hour. All traffic turned left into the site during the AM peak hour and 80% turned right into the site during the PM peak hour. Per guidance from NHDOT, Group 5 Roadway factors were used for seasonal adjustment. For a count conducted in June, volumes were increased by 1.10 to estimate a peak month condition. For a count conducted in July no adjustments were required. No adjustment for COVID impacts was incorporated. This was based upon a review of traffic volume information at the continuous count station on Route 2 in Jefferson (closest non-interstate facility). The following notes a comparison of 2019 volumes to volumes in 2023.

Day	Day of Week	Day	AM Peak	PM Peak
6/21/2023	Wednesday	5968	468	516
6/19/2019	Wednesday	5171	369	452

Figure 2 depicts the 2023 Existing Design Hour Traffic volumes at the NH 116/Douglas Drive intersection.

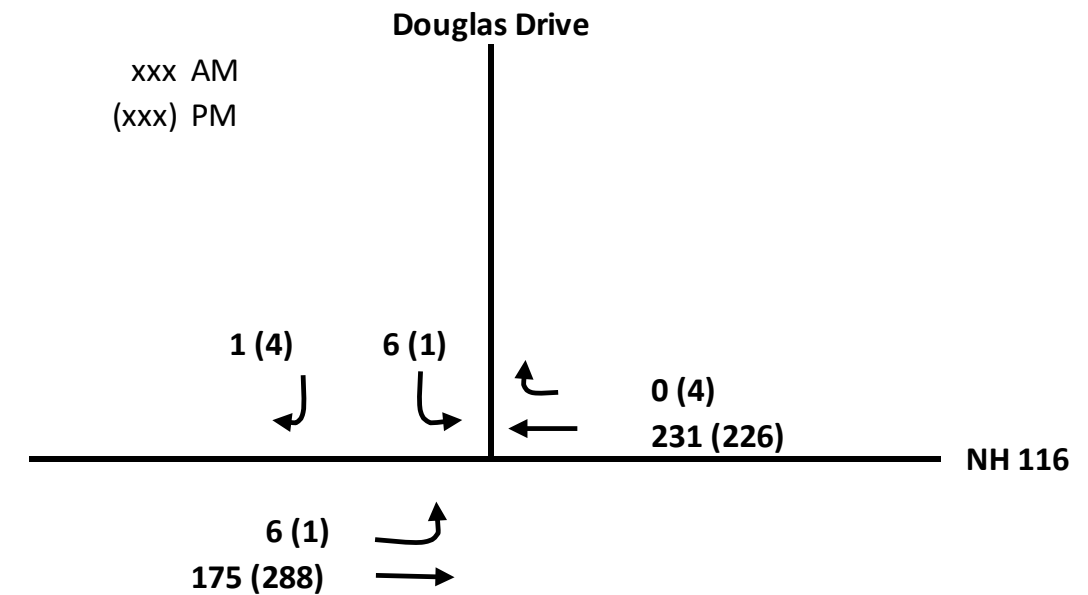


Figure 2: 2023 Existing Peak Hour Traffic Volumes

Table 1 NH 116 West of Douglas Drive Wednesday June 21, 2023 Total Volume															
Time	Motorcycles	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	No Class	Total
1:00	0	7	0	0	0	0	0	1	0	0	0	0	0	0	8
2:00	0	3	1	0	0	0	0	0	0	0	0	0	0	0	4
3:00	0	2	0	0	2	0	0	0	0	0	0	0	0	0	4
4:00	0	9	4	1	6	0	0	0	0	0	0	0	0	0	20
5:00	0	19	9	0	12	0	0	3	0	0	0	0	0	0	43
6:00	0	45	31	1	23	0	0	1	0	0	0	0	0	0	101
7:00	0	78	58	3	57	0	0	6	0	0	0	0	0	0	202
8:00	0	196	55	0	59	0	0	9	0	0	0	0	0	0	319
9:00	0	184	79	4	73	0	0	10	0	0	0	0	0	0	350
10:00	0	182	67	2	63	1	0	11	0	0	0	0	0	0	326
11:00	0	198	74	6	82	1	0	8	0	0	0	0	0	0	369
12:00 PM	0	184	69	2	76	0	0	14	0	0	0	0	0	0	345
1:00	0	204	89	3	62	0	0	5	0	0	0	0	0	0	363
2:00	2	205	82	3	64	2	0	7	0	0	0	0	0	0	365
3:00	0	253	105	1	62	2	0	9	0	0	0	0	0	0	432
4:00	2	276	108	1	73	0	0	7	0	0	0	0	0	0	467
5:00	2	235	112	2	77	0	0	4	0	1	0	0	0	0	433
6:00	0	265	86	0	59	0	0	6	0	0	0	0	0	0	416
7:00	0	170	65	0	39	0	0	5	0	0	0	0	0	0	279
8:00	0	105	51	0	28	0	0	3	0	0	0	0	0	0	187
9:00	1	102	27	1	20	0	0	1	0	0	0	0	0	0	152
10:00	0	75	26	0	10	0	0	0	0	0	0	0	0	0	111
11:00	0	42	8	0	9	0	0	2	0	0	0	0	0	0	61
	0	14	5	0	6	0	0	2	0	0	0	0	0	0	27
Total	7	3053	1211	30	962	6	0	114	0	1	0	0	0	0	5384
Percent	0.1%	56.7%	22.5%	0.6%	17.9%	0.1%	0.0%	2.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
AM Peak		10:00	8:00	10:00	10:00	9:00		11:00							10:00
	*	198	79	6	82	1	*	14	*	*	*	*	*	*	369
PM Peak	1:00	3:00	4:00	12:00 PM	4:00	1:00		2:00		4:00					3:00
	2	276	112	3	77	2	*	9	*	1	*	*	*	*	467

Table 2 NH 116 West of Douglas Drive Wednesday June 21, 2023 DIRECTIONAL Volume			
Time	Eastbound	Westbound	Combined Total
	Total	Total	
1:00	6	2	8
2:00	3	1	4
3:00	1	3	4
4:00	9	11	20
5:00	10	33	43
6:00	23	78	101
7:00	47	155	202
8:00	90	229	319
9:00	120	230	350
10:00	151	175	326
11:00	159	210	369
12:00 PM	181	164	345
1:00	181	182	363
2:00	177	188	365
3:00	230	202	432
4:00	262	205	467
5:00	255	178	433
6:00	276	140	416
7:00	177	102	279
8:00	115	72	187
9:00	106	46	152
10:00	66	45	111
11:00	39	22	61
	16	11	27

Table 3
 Douglas Drive
 FRIDAY July 15, 2023
 Total Volume

Time	Motorcycles	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	No Class	Total
1:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:00	0	0	3	0	4	4	0	1	0	0	0	0	0	0	12
9:00	0	0	3	0	1	2	0	0	0	0	0	0	0	0	6
10:00	0	0	2	0	0	2	1	3	0	0	0	0	0	0	8
11:00	0	0	3	0	3	4	0	3	0	0	0	0	0	0	13
12:00 PM	0	0	1	0	0	7	1	0	0	0	0	0	0	0	9
1:00	0	0	1	0	0	3	1	1	0	0	0	0	0	0	6
2:00	0	0	3	0	2	3	2	0	0	0	0	0	0	0	10
3:00	0	0	1	0	0	3	1	0	0	0	0	0	0	0	5
4:00	0	0	1	0	2	0	0	0	0	0	0	0	0	0	3
5:00	0	0	4	0	0	0	0	0	0	0	0	0	0	0	4
6:00	0	3	2	0	3	0	0	0	0	0	0	0	0	0	8
7:00	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
8:00	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
9:00	0	0	3	0	0	0	0	2	0	0	0	0	0	0	5
10:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	3	29	0	15	28	6	10	0	0	0	0	0	0	91
Percent	0.0%	3.3%	31.9%	0.0%	16.5%	30.8%	6.6%	11.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
AM Peak			7:00		7:00	11:00	9:00	9:00							10:00
	*	*	3	*	4	7	1	3	*	*	*	*	*	*	13
PM Peak		5:00	4:00		5:00	12:00 PM	1:00	8:00							1:00
	*	3	4	*	3	3	2	2	*	*	*	*	*	*	10

Table 4 Douglas Drive Friday July 14, 2023 Directional Volume			
Time	SB	NB	Combined
	Total	Total	Total
1:00	0	0	0
2:00	0	0	0
3:00	0	0	0
4:00	0	0	0
5:00	0	0	0
6:00	0	0	0
7:00	0	0	0
8:00	6	6	12
9:00	3	3	6
10:00	4	4	8
11:00	7	6	13
12:00 PM	4	5	9
1:00	3	3	6
2:00	5	5	10
3:00	3	2	5
4:00	1	2	3
5:00	2	2	4
6:00	4	4	8
7:00	0	1	1
8:00	0	1	1
9:00	3	2	5
10:00	0	0	0
11:00	0	0	0
	0	0	0
Total	45	46	91

NH 116/US 3

Twelve-hour (12-hour) intersection turning movement counts were performed at the US 3/NH 116 intersection on Thursday and Friday September 12 and 13, 2019 (see **Appendix**). Per NHDOT guidelines existing traffic volumes were adjusted to reflect seasonal variation only. Per guidance from NHDOT, Group 5 Roadway factors were used. For a count conducted in September, volumes were increased by 1.22 to estimate a peak month condition. Because the traffic count was performed in 2019, no COVID adjustments were incorporated. **Figure 3** presents the 2019 Existing peak hour traffic volumes at the US 3/NH 116 intersection.

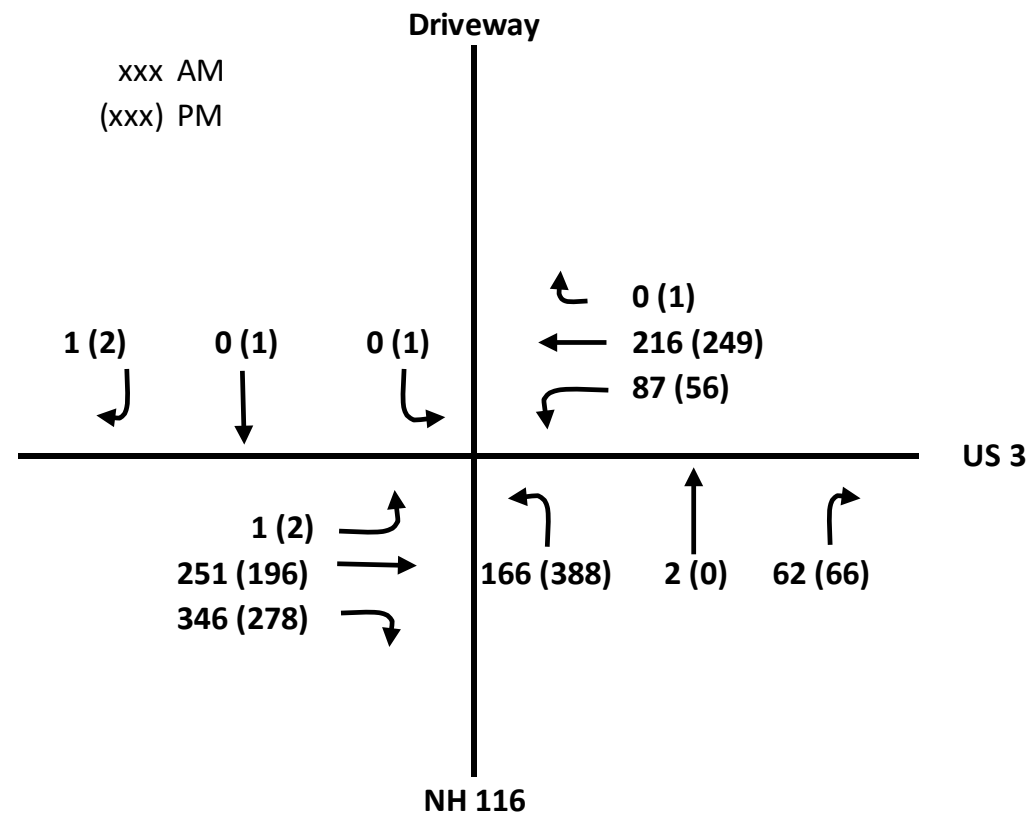


Figure 3: 2019 Existing Peak Hour Traffic Volumes

3.0 SITE GENERATED TRAFFIC VOLUMES

To estimate traffic generated by the proposed project existing traffic information was obtained from existing North Country Environmental Services (NCES) Landfill scale data in Bethlehem. **Tables 5 and 6** document incoming recorded truck traffic volume.

The proposed landfill operation is expected to average about 102 vehicle trips per day during higher traffic summer months (25% above the Bethlehem summer traffic level – See **Appendix** for Bethlehem data). 91 vehicles will be trucks and comprise of the following specific vehicle types:

- 50 Transfer Trailers
- 7 Leachate Tankers
- 20 Roll Offs Trucks
- 14 Packers/Side Loads/Front Loads Trucks

Table 5 Vehicles Scaled over 22 business days of July 2019									
Vehicle Type	Hour Vehicle Scaled into the Facility								
	6 - 7 AM	7 - 8 AM	8 - 9 AM	9 - 10 AM	10 - 11 AM	11 - 12 PM	12 - 1 PM	1 - 2 PM	2 - 3 PM
TT	184	156	101	96	124	113	112	131	76
Roll-off	18	24	47	52	47	40	26	42	32
Packer	1	19	16	21	22	28	13	20	20
Passenger	2	15	23	22	34	22	28	29	15
10-wheel Dump	0	1	2	1	2	1	2	1	1
Total	205	215	189	192	229	204	181	223	144
Hourly	9	10	9	9	10	9	8	10	7

Table 6 Vehicles Scaled over 23 business days of August 2018									
Vehicle Type	Hour Vehicle Scaled into the Facility								
	6 - 7 AM	7 - 8 AM	8 - 9 AM	9 - 10 AM	10 - 11 AM	11 - 12 PM	12 - 1 PM	1 - 2 PM	2 - 3 PM
TT	138	189	72	86	126	169	144	114	46
Roll-off	25	37	56	55	51	46	39	32	37
Packer	1	22	19	27	11	15	29	32	15
Passenger	1	16	18	23	32	36	29	26	21
10-wheel Dump	1	3	6	5	7	5	6	6	8
Total	166	267	171	196	227	271	247	210	127
Hourly	7	12	7	9	10	12	11	9	6

There will be some miscellaneous vehicles (passenger vehicles, fuel deliveries, other deliveries) and this is estimated to be about 11 vehicles per day.

The landfill is expected to operate from about 6:00AM to 6:00PM during weekdays and some occasional Saturdays, with traffic intentionally spread out throughout the day to aid in quick, efficient unloading operations. To estimate peak hour volumes hourly information from the Bethlehem site was reviewed. Based upon that data, **Table 7** presents an hourly break down for the July and August months averaged. **[Note: Incoming hauling vehicles are not allowed after 3:00PM, and all hauling vehicles leave the site before 4:00PM]**

Table 7 Hourly Trips to Site										
Hour	6 - 7 AM	7 - 8 AM	8 - 9 AM	9 - 10 AM	10 - 11 AM	11 - 12 PM	12 - 1 PM	1 - 2 PM	2 - 3 PM	Total
July 2019										
Total	205	215	189	192	229	204	181	223	144	1782
% of Total	11.5%	12.1%	10.6%	10.8%	12.9%	11.4%	10.2%	12.5%	8.1%	100%
August 2019										
Total	166	267	171	196	227	271	247	210	127	1882
% of Total	8.8%	14.2%	9.1%	10.4%	12.1%	14.4%	13.1%	11.2%	6.7%	100%
Average	10.2%	13.1%	9.8%	10.6%	12.5%	12.9%	11.6%	11.8%	7.4%	100%
102 vehicles	10	13	10	11	13	13	12	12	8	102

During a peak hour about 13 vehicles would be expected to enter and 13 vehicles exit. This level of traffic is only a 5.3% increase in the AM peak hour and 4.2% in the PM peak hour on NH 116 north of the project site.

600,000 cubic yards of solid waste is expected to be landfilled at the site annually. Subject to several factors such as weather, compaction techniques and settlement, waste cubic yards are converted to tons at the estimated ratio of 0.76 tons per cubic yards, resulting in disposal of about 456,000 tons per year. The projected traffic of 102 vehicles per day is for higher volume summer disposal rates of about 520,000 tons per year.

The routing of trucks to and from the site was based upon origins and destinations to and from I-93 and most appropriate non-interstate routing considering community impacts and roadway infrastructure constraints. The proposed truck route for origins and destinations to and from the south on I-93 is via Exit 35 on I-93 to US 3 northerly and to NH 116 in Whitefield. The truck route for origins and destinations to and from the north on I-93 (and I-91) is via Exit 40 on I-93 to US 302 easterly, to US 3 northerly and to NH 116 in Whitefield. Accordingly, most traffic to and from the site is from the north. Some localized traffic (deliveries and passenger cars would be expected for route to and from the south). A graphic depicting the proposed routing plan is provided in the **Appendix**.

Figure 4 depict the Weekday AM and PM peak hour Site Trip Generation volumes at the NH 116/Douglas Drive and NH 116/Route 3 intersections.

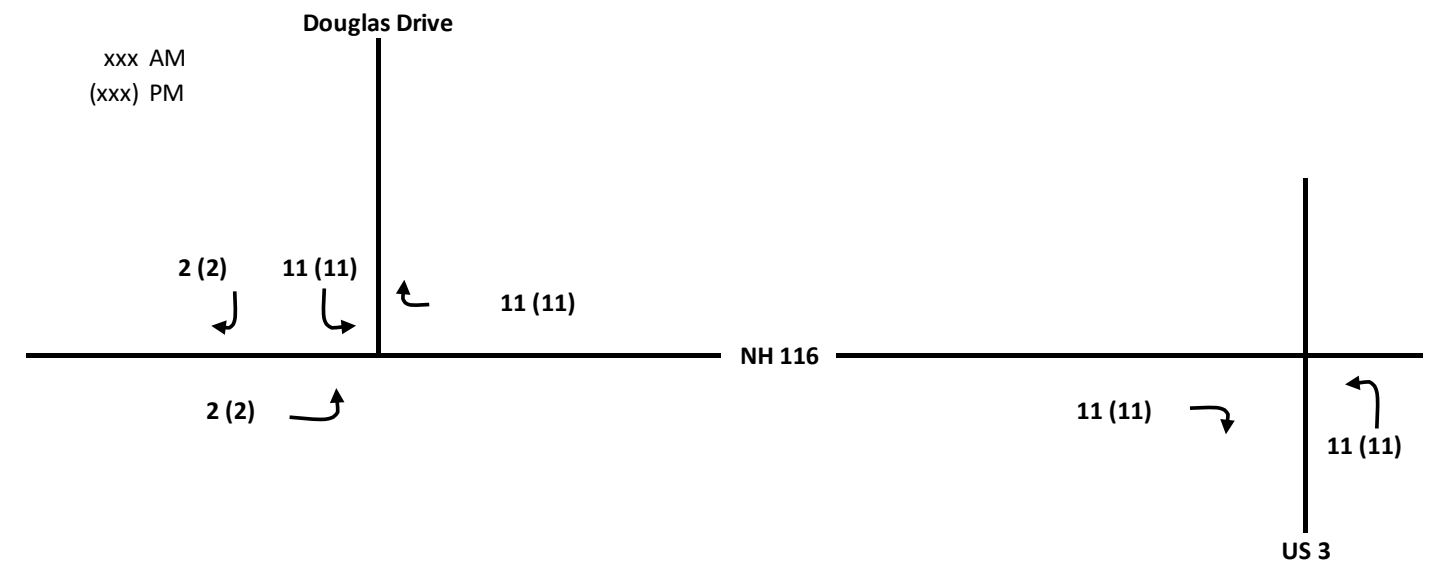


Figure 4: Trip Generation Assignment

Truck Traffic along Truck Route

NHDOT requested information on the increase in heavy trucks, above existing truck volumes along the truck route. NHDOT suggested reviewing classification data on US 3 and using weekday classification data to estimate average percentages for three categories:

- Cars – FHWA Class 1 – 3
- Light trucks – FHWA Class 4 – 7
- Heavy trucks – FHWA Class 8-13

Table 8 presents the average percentages collected at station 82481057 located on US 3 north of NH 116. The data collected was on three days in July 2009. **Table 8** also estimates the increase in traffic from the project. For the project, the following was assumed:

- 50 Transfer Trailers (**Heavy Trucks**)
- 7 Leachate Tankers (**Heavy Trucks**)
- 20 Roll Offs Trucks (**Light Trucks**)
- 14 Packers/Side Loads/Front Loads Trucks (**Light Trucks**)
- 11 Miscellaneous vehicles (passenger vehicles, fuel deliveries, other deliveries) (**6 Cars and 5 Light Trucks**). It was assumed all travel north to US 3. This is conservative as some employees and deliveries may arrive from the south.

Because the above project vehicle estimate is for the peak summer condition, the volumes were reduced by 25% to reflect average conditions over the year (to be consistent with the AADT).

In NHDOT’s April 14, 2023 Request for More Information, additional traffic counts were requested. Automatic Traffic Recorder counts were collected on NH 116 west of Douglas Drive from Wednesday June 21, 2023, through Saturday June 24, 2023 (the count on June 24th ended around 5PM). **Table 1** presents the vehicle classification information for Wednesday June 21, 2023. Because the traffic count was performed in June, site traffic volumes were reduced by 10%, to reflect NHDOT seasonal factors. **Table 1** notes the vehicle classification increases with project traffic using the 2023 data. The project would expect to increase Light Trucks by 7% and Heavy Trucks by 90%.

Table 8 Traffic Increase on NH 116 and US 3				
US 3 north of NH 116	Cars	Light Trucks	Heavy Truck	Total
Tuesday 7/7/2009	10,271 (88.40%)	1,207 (10.39%)	141 (1.21%)	11,619 (100%)
Wednesday 7/8/2009	10,900 (89.55%)	1,132 (9.30%)	140 (1.15%)	12,172 (100%)
Thursday 7/9/2009	12,364 (89.35%)	1,306 (9.44%)	168 (1.21%)	13,838 (100%)
Average %	89.1%	9.71%	1.19%	100%
NH 116 at Bethlehem/Whitefield TL (2021 AADT=4,412)	3,931	428	53	4,412
GSL Vehicles	9	59	86	154
GSL Percent Increase	0.23%	13.79%	162.26%	3.45%
US 3 at Carroll/Whitefield TL (2021 AADT=3,028)	2,698	294	36	3,028
GSL Vehicles	9	59	86	154
GSL Percent Increase	0.33%	20.01%	238.89%	5.09%
NH 116 west of Douglas Drive (6/21/23)	4,271	998	115	5,384
GSL Vehicles	11	70	103	184
GSL Percent Increase	0.26%	7.0%	90%	3.4%

4.0 FUTURE BUILD TRAFFIC VOLUMES

Future traffic volumes at the site driveway were estimated based on existing landfill generated traffic volumes utilizing the NCES site accounting for the higher disposal rates projected for the GSL site, and background traffic growth on NH 116 (per direction at the scoping meeting an annual growth rate of 1% was assumed).

Existing Site Traffic Generation

The site is currently operated as a commercial/industrial facility that includes two sand and gravel mining operations, a rock quarry, processing of roadway gravels and stone. A formerly operating asphalt plant has been removed from the site. The owner lives in a house on the property. The site is also permitted for a drag strip expected to operate on weekends, although construction is not complete, and the project is dormant. The owner has a driveway permit for the drag strip which is provided in the **Appendix**. The May 2021 and July 2023 traffic counts capture traffic from the existing commercial/industrial facility and so no adjustment was needed. Given that this Study is evaluating traffic during the Weekday peak hours, prospective drag strip traffic was not included. It should be noted that from a safety perspective, landfill hours will not coincide with future Drag Strip events. Granite State Landfill, LLC would accept a permit condition that would require the landfill to be closed during Drag Strip events, so traffic would never occur at the same time.

Background Growth

The project is anticipated to open in 2028 and the analysis assumes a 10-year future volume scenario. The existing traffic volumes counted in 2019 at the NH 116/US 3 intersection were increased by 1.094 to 2028 project opening traffic volumes and 1.208 to estimate volumes in 2038. Traffic volumes at NH 116/Douglas Drive were increased by 1.051 to estimate 2028 project opening traffic volumes and 1.16 to estimate 2038 traffic volumes. **Tables 9 and 10** present the volume adjustments at the two study intersections. **Figures 5 through 8** depict the No-Build and Build Traffic volumes at NH 116/Douglas Drive and **Figures 9 through 12** present the No-Build and Build Traffic volumes at NH 116/US 3.

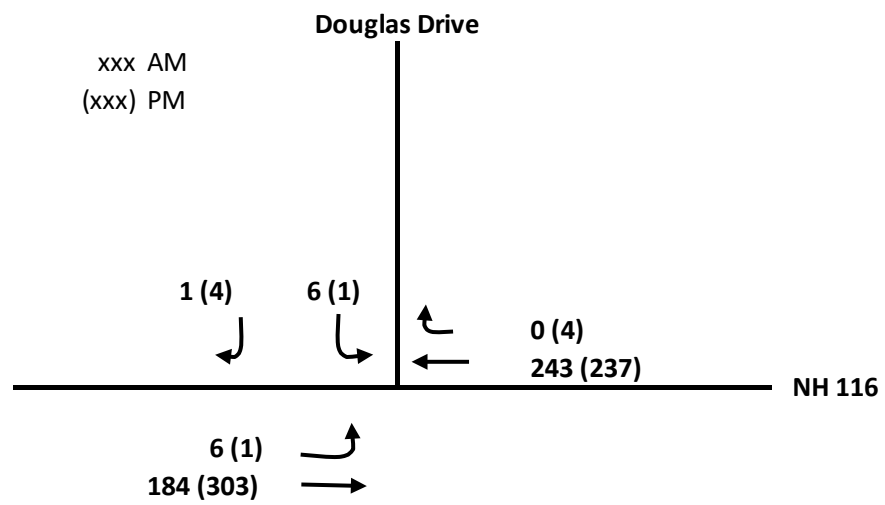


Figure 5: 2028 No-Build Traffic Volumes

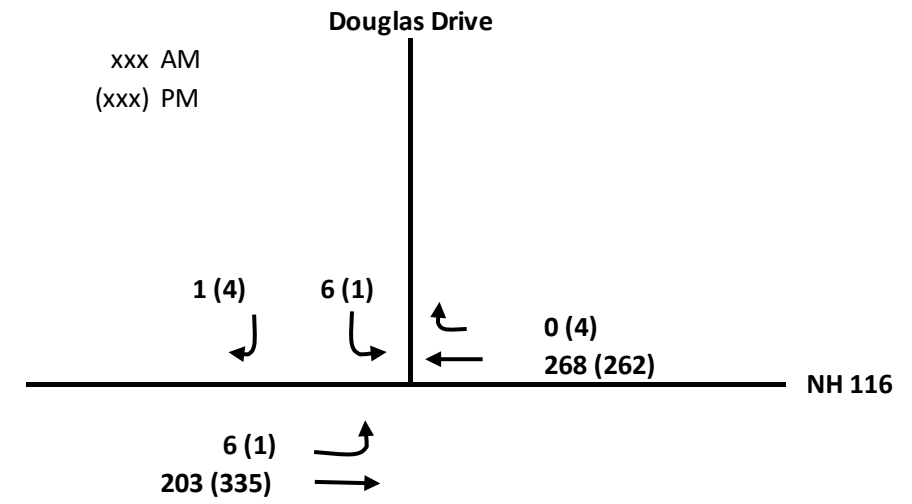


Figure 7: 2038 No-Build Traffic Volumes

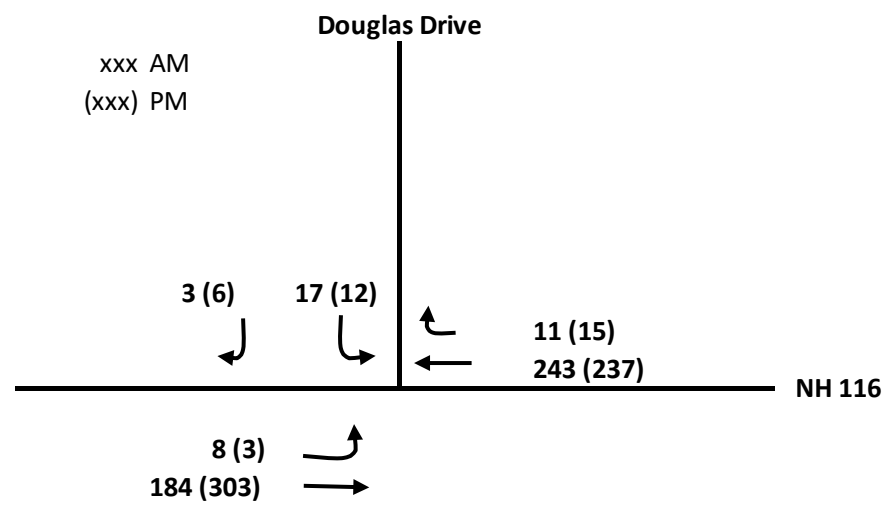


Figure 6: 2028 Build Traffic Volumes

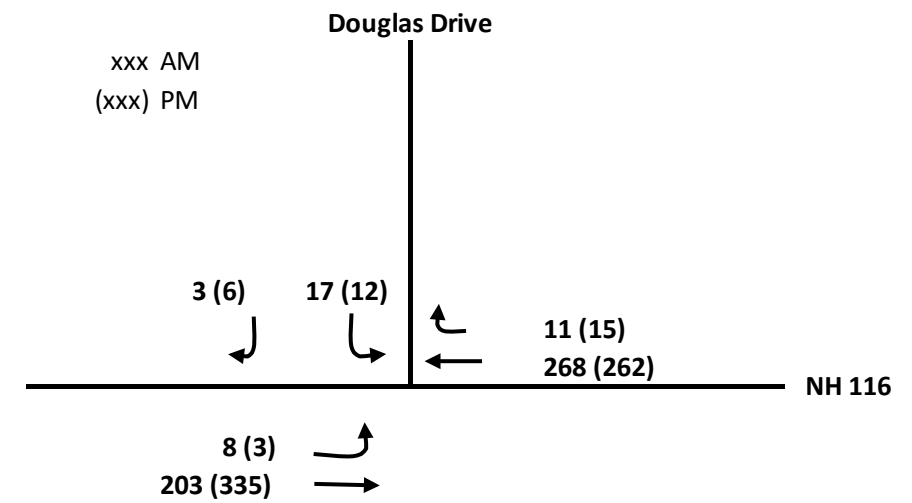


Figure 8: 2038 Build Traffic Volumes

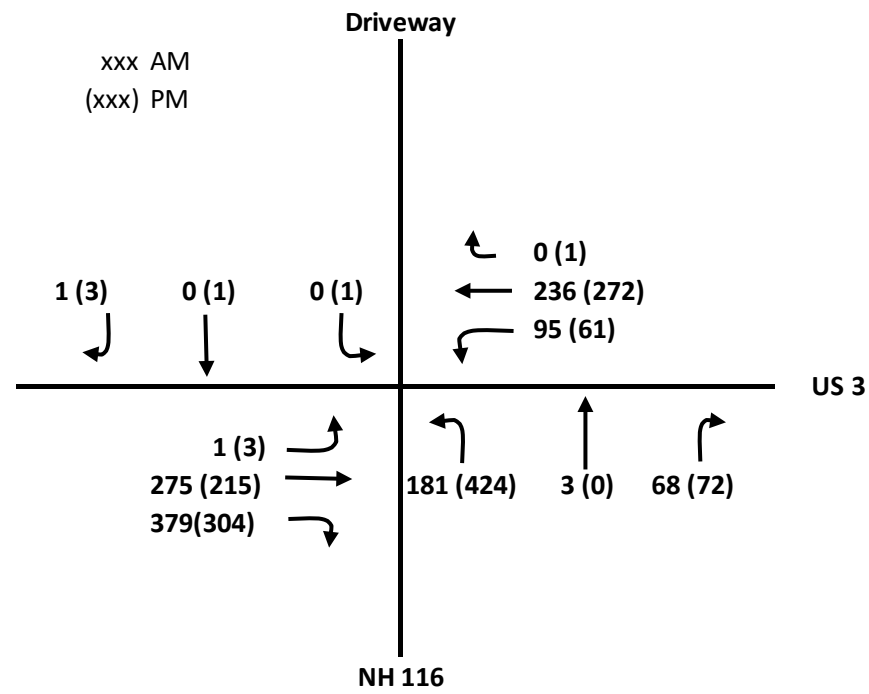


Figure 9: 2028 No-Build Traffic Volumes

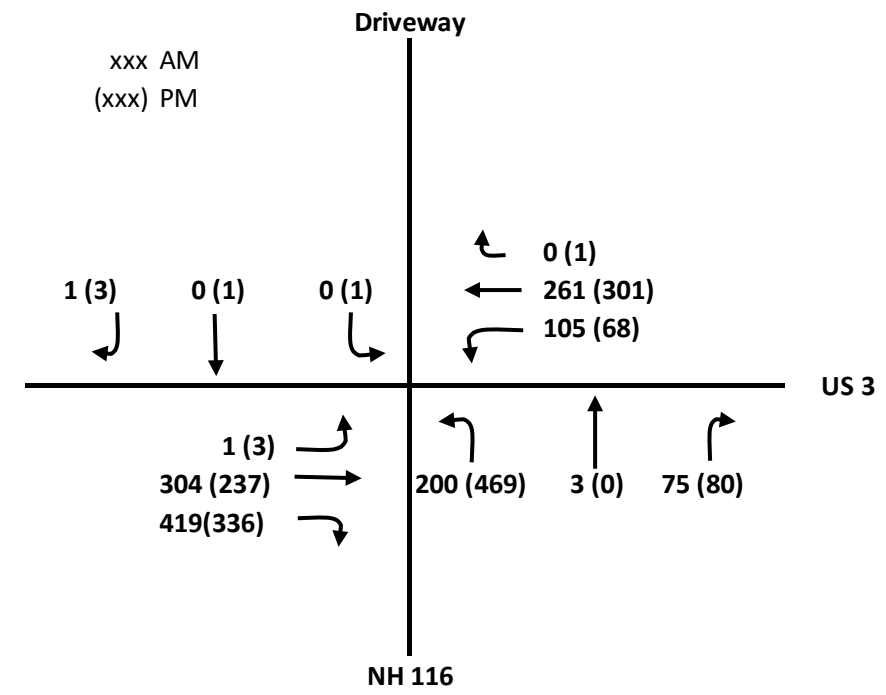


Figure 11: 2038 No-Build Traffic Volumes

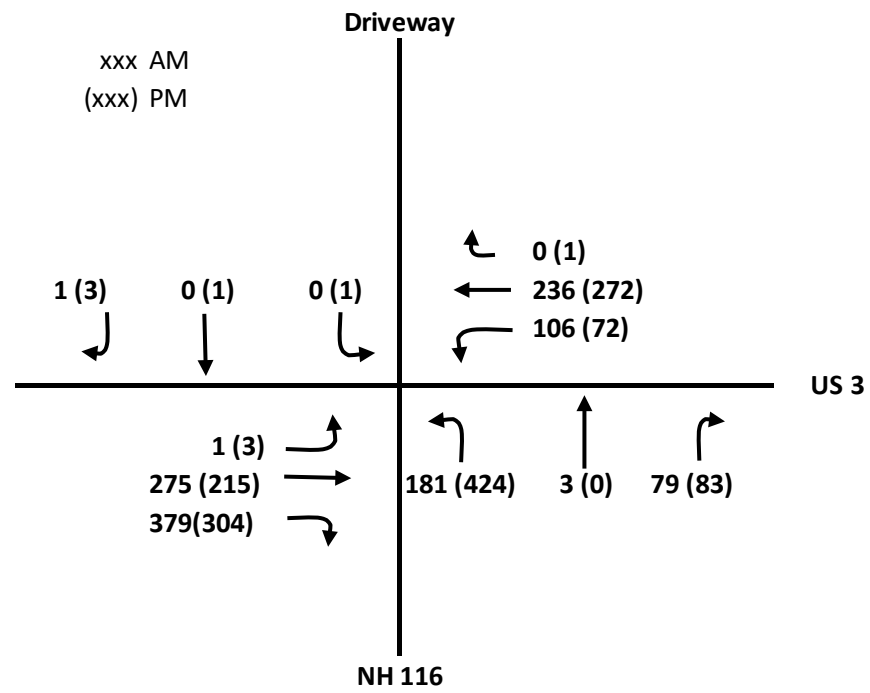


Figure 10: 2028 Build Traffic Volumes

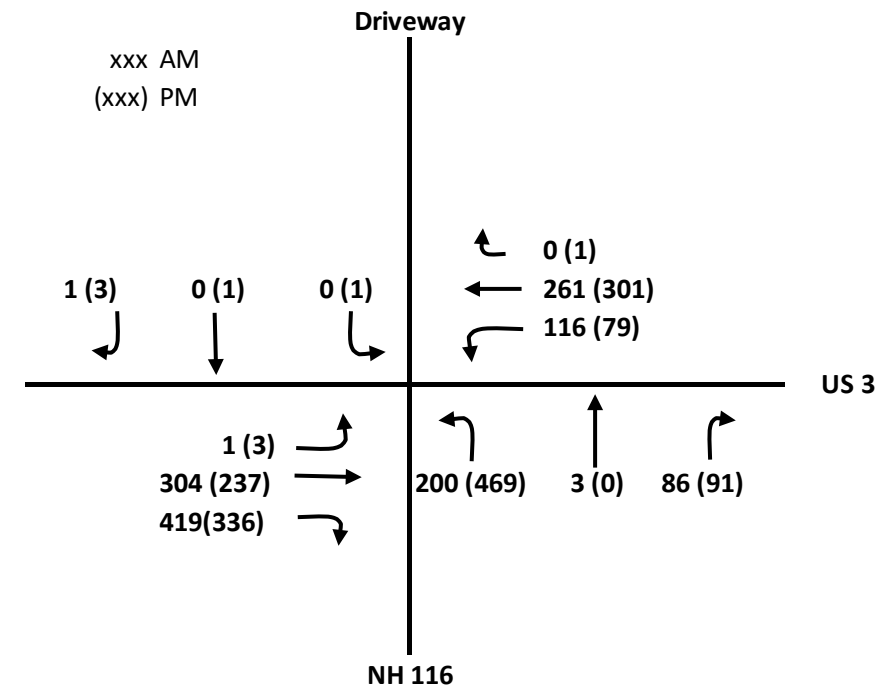


Figure 12: 2038 Build Traffic Volumes

Table 9 NH 116 at Douglas Drive – Traffic Volume Development								
	AM Peak Hour (7:00-8:00AM)				PM Peak Hour			
	Unadjusted	Seasonal Adjustment	Opening Year (2028)	Future Year (2038)	Unadjusted	Seasonal Adjustment	Opening Year (2028)	Future Year (2038)
NH 116 EB Though	159	175	184	203	262	288	303	335
NH 116 EB Left	6	6	6	6	1	1	1	1
NH 116 WB Through	210	231	243	268	205	226	237	262
NH 116 WB Right	0	0	0	0	4	4	4	4
Douglas Drive Left	6	6	6	6	1	1	1	1
Douglas Drive Right	1	1	1	1	4	4	4	4
		Group 5	1% Per Year	1% Per Year				
		June	1.05101005	1.160968955				
		1.1						
Douglas Drive was not adjusted given it is a July Count NH 116 Counts Wednesday June 21, 2023 Douglas Drive Count Friday July 14, 2023								

Table 10 Route 3 @ NH 116 – Traffic Volume Development								
	AM Peak Hour (7:00-8:00AM)				PM Peak Hour			
	Unadjusted	Seasonal Adjustment	Opening Year (2028)	Future Year (2038)	Unadjusted	Seasonal Adjustment	Opening Year (2028)	Future Year (2038)
Route 3 SB Left	1	1	1	1	2	2	3	3
Route 3 SB Through	206	251	275	304	161	196	215	237
Route 3 SB Right	284	346	379	419	228	278	304	336
Route 3 NB Left	71	87	95	105	46	56	61	74
Route 3 NB Through	177	216	236	261	204	249	272	329
Route 3 NB Right	0	0	0	0	1	1	1	2
NH 116 Left	136	166	181	200	318	388	424	513
NH 116 Through	2	2	3	3	0	0	0	0
NH 116 Right	51	62	68	75	54	66	72	87
Driveway Left	0	0	0	0	1	1	1	2
Driveway Through	0	0	0	0	1	1	1	2
Driveway Right	1	1	1	1	2	2	3	3
		Group 5	1% Per Year	1% Per Year				
		September	1.093685273	1.20810895				
		1.22						
Count on Thursday September 12, 2019								

5.0 US 3 and NH 116 Capacity Analysis

Per direction from NHDOT capacity analyses were performed at the NH 116/US 3 intersection under Project Opening (2028) and Future (2038) No-Build and Build conditions. The standard used to evaluate traffic operating conditions of the transportation system is referred to as the Level of Service (LOS). Level of Service provides a measurement of the delay experienced at an intersection as a result of traffic operations at that intersection. In general, there are six levels of service: Level of Service A to Level of Service F. The highest, Level of Service A, describes a condition of free flow, with low volumes and high speeds. Level of Service B represents a stable traffic flow with operating speeds beginning to be restricted somewhat by traffic conditions. Level of Service C, which is normally utilized for design purposes, describes a stable condition of traffic operation. It entails moderately restricted movements due to higher traffic volumes, but traffic conditions are not objectionable to motorists. Level of Service D reflects a condition of more restrictive movements for motorists and influence of congestion becomes more noticeable. Level of Service E is representative of the actual capacity of the roadway or intersection and involves delay to all motorists due to congestion. The lowest, Level of Service F, is described as force flow and is characterized by volumes greater than the theoretical roadway capacity. Complete congestion occurs, and in extreme cases, the volume passing a given point drops to zero. This is considered as an unacceptable traffic operating condition.

Table 11 highlights the level of service criteria for unsignalized intersections. The level of service criteria for unsignalized intersections is based on control delay per vehicle measured in seconds. The LOS procedure computes capacity for each movement that has a conflict, based upon the critical time gap required to complete the maneuver and the volume of traffic that is opposing the movement.

Table 11 LOS Criteria for Unsignalized Intersections	
Level of Service	Control Delay Per Vehicle (seconds)
A	≤10
B	>10 and ≤15
C	>15 and ≤25
D	>25 and ≤35
E	>35 and ≤50
F	> 50

Source: 2010 Highway Capacity Manual, Transportation Research Board

For this study, level of service analysis of the study area intersections was conducted using Synchro 10. **Tables 12 and 13** present the results of the level of service analyses for the No-Build and Build future conditions.

Table 12 NH 116/US 3 Project Opening (2028) Level of Service Summary								
Movement	AM Peak Hour				PM Peak Hour			
	2028 No-Build		2028 Build		2028 No-Build		2028 Build	
	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay
NH 116 Left	F	211.3	F	251.9	F	574.4	F	639.9
NH 116 Right	B	12.5	B	12.7	B	11.4	B	11.5
US 3 NB Left	A	10.0	A	10.0	A	9.0	A	9.1
US 3 SB Left	A	7.9	A	7.9	A	8.0	A	8.0
Driveway	B	10.0	B	10.0	C	16.4	C	17.1

Table 13 NH 116/US 3 Project Opening (2038) Level of Service Summary								
Movement	AM Peak Hour				PM Peak Hour			
	2038 No-Build		2038 Build		2038 No-Build		2038 Build	
	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay
NH 116 Left	F	361.3	F	398.9	F	887.7	F	992.2
NH 116 Right	B	14.5	B	14.8	B	11.9	B	12.1
US 3 NB Left	B	10.6	B	10.7	A	9.3	A	9.4
US 3 SB Left	A	7.8	A	7.8	A	8.1	A	8.1
Driveway	A	9.8	A	9.8	C	18.4	C	19.4

As noted, left-turn movements from NH 116 to US 3 are projected to experience delays without the project and delays increase with the introduction of project traffic. The following should be noted:

- In our professional opinion the delays noted using Synchro 10 are overstated and model inputs create values that fall outside the range of accepted conditions for the Highway Capacity Manual equations. A SimTraffic model analysis was therefore conducted for the 2038 PM peak hour and **Table 14** presents the results for the NH 116 movements. As noted, the delay for the NH 116 left-turn continues to be LOS F, but the estimate is a value that would be in the expected range for this location. It is important to note that the project will have little impact on delay (increases by 3.9 seconds). Additionally, the movement in which the project will be adding traffic is projected to experience only a 4.0 second increase in delay.

Table 14 NH 116/US 3 Project Opening (2038) Level of Service Summary SimTraffic Model				
Movement	PM Peak Hour			
	2038 No-Build		2038 Build	
	LOS	Delay	LOS	Delay
NH 116 Left	F	112.9	F	116.8
NH 116 Right	E	38.1	E	42.1

- The project will be adding very little traffic to the intersection and thus impacts will be minor. It will be adding traffic to the NH 116 right-turn and the US 3 northbound left-turn. Both movements will operate at acceptable levels of service. Overall, the project is estimated to increase traffic by 1.6% in the AM peak hour and 1.4% during the PM peak hour.
- The PM peak hour analysis assumed trucks will be entering and exiting the landfill from 3-4PM (the afternoon peak hour). Operations will not permit trucks from entering the site after 3PM to allow sufficient time to prepare the landfill for post-closing conditions. Accordingly, less impact to the intersection is expected during the PM peak hour. The following presents the actual total entering hourly volume at the intersection over the 6AM to 6PM time period. From 2-3PM, the last afternoon hour for which both entering and exiting trucks will be generated, the total intersection volume is significantly less than the peak hour from 3-4PM.
 - 6-7AM: 472 vehicles
 - 7-8AM: 929 vehicles
 - 8-9AM: 627 vehicles
 - 9-10AM: 641 vehicles
 - 10-11AM: 646 vehicles
 - 11-12PM: 624 vehicles
 - 12-1PM: 746 vehicles
 - 1-2PM: 656 vehicles
 - **2-3PM: 793 vehicles**
 - 3-4PM: 1,018 vehicles
 - 4-5PM: 899 vehicles
 - 5-6PM: 859 vehicles

Per a request by NHDOT staff, an evaluation of the need for a dedicated left-turn lane on northbound US 3 at NH 116 was performed based upon guidance contained in the publication National Cooperative Highway Research Program (NCHRP) 457. As requested, this evaluation was performed from both the No-Build and Build conditions. Based on spreadsheets provided with the document, a left-turn lane is warranted in both cases. The proposed project does not trigger the need for a left-turn lane. Calculation sheets are provided in the **Appendix**. Regardless of the warrant conclusion, we do not recommend the implementation of a left-turn lane for the following reasons:

- The capacity analysis indicates the left-turn movement from US 3 onto NH 116 will operate with little delay. Levels of Service of B or better conditions are estimated in 2038.
- NCHRP 457 includes guidance for providing a left-turn lane that includes:

- A left-turn lane should be considered at any median crossover on a divided, high-speed road – **This is not applicable.**
- A left-turn lane should be provided on the unstopped approach of a high-speed rural highway when it intersects with other arterials or collectors – **This is not applicable.**
- A left-turn lane is recommended on the unstopped approach of any intersection when the combination of intersection volumes intersection above or to the right of the appropriate trend line shown in Figure 2-5 – Figure 2-5 provides trend lines for locations with speeds of 40MPH and higher -- **Given low speeds at the subject location this is not applicable.**

6.0 SITE DRIVEWAY DESIGN REVIEW

The key design elements that were reviewed for the proposed project to ensure safe and efficient movements entering and exiting the site included the need for turn lanes (left-turn and right-turn deceleration lanes), sight distance and internal truck queue storage to address waiting trucks.

NH 116 Left-Turn Lane

Left-turn movements entering the site are anticipated to be minor. As noted on **Figure 11** only 8 vehicles are anticipated to turn left during the AM peak hour and 3 vehicles during the PM peak hour. Per discussions with NHDOT staff, the evaluation of the need for a dedicated left-turn lane was based upon guidance contained in the publication National Cooperative Highway Research Program (NCHRP) 457. Based on spreadsheets provided with the document, a left-turn lane is not warranted. Calculation sheets are provided in the **Appendix**.

NH 116 Right-Turn Lane

Per NHDOT direction, the evaluation of the need for a dedicated right-turn lane was performed and based upon guidance contained in the publication National Cooperative Highway Research Program (NCHRP) 457. Based on spreadsheets provided with the document, a right-turn lane is not warranted. Calculation sheets are provided in the **Appendix**. However, the NHDOT District is suggesting the provision of a right-turn lane and therefore a right-turn deceleration lane is proposed. The design of the lane is based upon guidance from the publication A Policy on Geometric Design of Highways and Streets, 8th Edition, 2018, AASHTO. According to the publication, the lane shall provide a total deceleration length of 505 feet (inclusive of both deceleration full lane length plus taper). This length is based on speeds of 55MPH, which is slightly above the posted speed limit of 50MPH. Per NHDOT direction, the suggested taper rate is 100 feet. Accordingly, the full lane length shall be 405 feet plus a taper of 100 feet. A plan located in the **Appendix** depicts the conceptual design plan for the right-turn lane.

NH 116 Eastbound Acceleration Lane

Per NHDOT direction, an acceleration lane for trucks exiting Douglas Drive eastbound on NH 116 is proposed. The design of the acceleration lane is based upon guidance from the publication A Policy on Geometric Design of Highways and Streets, 8th Edition, 2018, AASHTO. According to the publication, and assuming a truck reaches a speed of 20MPH by the time it reaches the acceleration lane, the full-width lane shall provide a total acceleration length of 810 feet. This length is based on speeds of 55MPH, which is slightly above the posted speed limit of 50MPH. If an initial speed of 20MPH is not assumed, the acceleration length still exceeds the length required to accelerate from 0MPH to 50MPH. Per NHDOT direction, the suggested taper rate is 50:1 to merge acceleration lane traffic with eastbound NH 116 traffic. A plan located in the **Appendix** depicts the conceptual design plan for the acceleration lane.

Douglas Drive Sight Distance

Sight distance requirements were also based on the AASHTO publication noted previously. AASHTO notes the following without any adjustment for grade and speeds for 55MPH (Recommended by NHDOT which is above the regulatory speed limit of 50 MPH).

- For 55MPH and the design vehicle is a truck, the sight distance requirement is 930 feet for a vehicle turning left from the minor street (Douglas Drive).
- For 55MPH and the design vehicle is a truck, the sight distance requirement is 850 feet for a vehicle turning right from the minor street (Douglas Drive).
- Field measurements are based on a height-of-eye of 7.6 feet (a truck) to a height-of-object of 3.5 feet. The measurement is taken from a spot 14.5 feet from the edge of travel way (the white edge line).
- At the request of NHDOT, sight distance was also evaluated at a height-of-eye of 3'-9" to a height-of-object of 3'-9". The evaluation indicate sight in excess of 400 will be provided and plans are provided in the **Appendix**.

Intersection sight distance alignments and profiles were created and confirmed that the minimum 930 feet sight distance west and 850 feet sight distance east have clear sight lines, free of obstructions. A plan is in the **Appendix** that shows the intersection sight distance (ISD) alignments and profiles.

Truck Queue Storage

GSL will allow trucks to queue in the designated lanes before the site scales. The lanes have a queuing capacity of 24 trucks that will be sufficient to handle the projected maximum hauling vehicles per hour during site operations. Lastly, Douglas Drive provides approximately ¼ of a mile of queuing if that need arises.

Supplemental Evaluation with Some Truck Routing through Littleton

In response to a request from NHDOT, a review of the need for a left-turn lane onto Douglas Drive was performed assuming 50% of the truck traffic is routed through Littleton. **Figure 13** depicts the volumes in 2038 with the requested reassignment. The evaluation of the need for a dedicated left-turn lane was based upon guidance contained in the publication National Cooperative Highway Research Program (NCHRP) 457. Based on spreadsheets provided with the document, a left-turn lane is not warranted. Calculation sheets are provided in the **Appendix**.

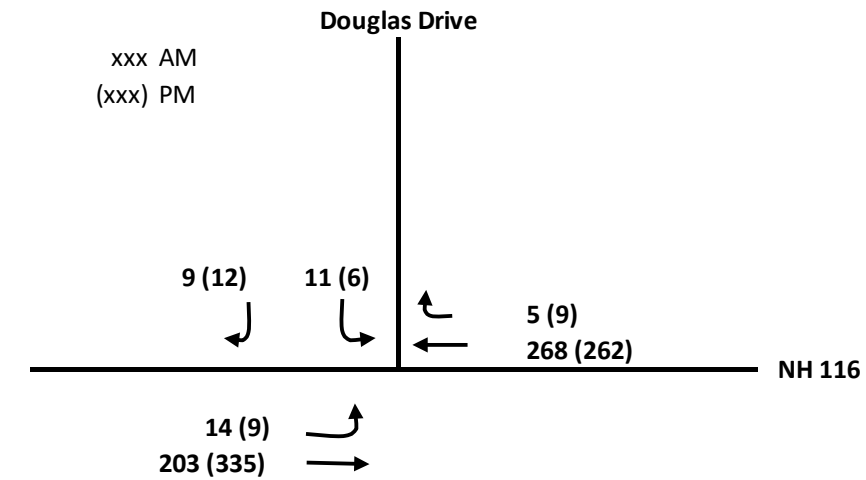


Figure 13: 2038 Build Traffic Volumes with Reassigned Truck Routing

Additionally, it was requested that a general evaluation of the NH 116/US 302 intersection be performed given the possible routing of trucks through the intersection (the proposed designated truck route is not through Littleton). The key issues expressed by NHDOT are right-turn movements from US 302 to northbound on NH 116. Given the restrictive corner at the Opera House, trucks need to turn into the southbound NH 116 left-turn lane to make the turn. To avoid lane encroachment, the STOP line for the southbound left-turn lane is set back or staggered. A vehicle turning template analysis indicates for large trucks, the offset STOP line configuration does not avoid encroachment into a vehicle waiting to turn left. Our analysis indicates the STOP line would need to be shift back from the intersection by approximately 80 feet. This does reduce the southbound NH 116 left-turn lane storage and this may be problematic. Accordingly, we do not recommend any changes at this intersection. Turning template graphics are provided in the **Appendix**.

HUNTER FARM ROAD

Hunter Farm Road is utilized to access an undeveloped parcel that is not owned by Doug Ingerson (Littleton Map 49 Lot 1). There is no direct access between this lot and Douglas Drive. We note that the connection shown between Hunter Farm Road and Douglas Drive on the NHDOT GIS database does not currently exist. Mr. Ingerson has not granted access to the owner of this property to use Douglas Drive. Hunter Farm Road is unpaved. Hunter Farm Road is expected to generate essentially no traffic and have no impact on traffic operations at Douglas Drive. Traffic from GSL will be directed east on NH Route 116 towards Whitefield and will not be allowed to turn west towards Littleton unless they are a local hauler from that area. The previous section evaluates a scenario where half of the GSL traffic turns west on Route 116 toward Littleton. That analysis assumed 9 AM peak hour vehicles and 12 PM peak hour vehicles would turn right from Douglas Drive and travel past Hunter Farm Road. Given the negligible traffic expected on Hunter Farm Road, safe traffic conditions are expected. It should be noted that sight distance from Hunter Farm Road meets NHDOT standards.

7.0 US 3 AND NH 116 DESIGN REVIEW

An “Auto-Turn” truck turning evaluation was conducted at the US 3 and NH 116 intersection to confirm that current intersection geometric conditions allow for large truck turns from NH 116 to and from US 3. Graphics located in the **Appendix** depict a WB-67 truck navigating the intersection. According to the analysis, large trucks can make the right-turn from NH 116 to US 3 southbound and from US 3 northbound to NH 116. No improvements are required for truck turns.

8.0 US 3 AND US 302 DESIGN REVIEW

An “Auto-Turn” truck turning evaluation was conducted at the US 3 and US 302 intersection to confirm that current intersection geometric conditions allow for large truck turns from US 302 to and from US 3. Graphics located in the **Appendix** depict a WB-67 truck navigating the intersection. According to the analysis, large trucks can make the right-turn from US 3 to US 302 westbound and left-turns from US 302 eastbound to US 3. No improvements are required for truck turns.

9.0 SAFETY ANALYSIS

The NHDOT requested an inventory of crash data from the most recent 3-year period for the following intersections:

- NH 116 between Douglas Drive and US 3 in Whitefield
- US 3 between NH 116 in Whitefield and US 302 in Carroll
- US 3 & NH 116 intersection in Whitefield
- US 3 & US 302 intersection in Carroll

Police reports were obtained from the Towns of Whitefield, Carroll, and Bethlehem. We were informed by the Carroll Police Department that some crashes may have been covered by the State Police. Copies of the reports are provided in the **Appendix**. We attempted to obtain crash data from the State Police and the Bureau of Safety and did not receive responses or information. **Tables 15 and 16** present the crashes that were reported at the requested intersections. The data did not indicate any correctible deficiency.

Table 16 US Rt 3 and US Rt 302 in Carroll				
Case #	Type	Date/Time	Weather	Pavement
22-2-AC	Single vehicle run off road	01/22/2022 @ 15:30	Cloudy	Dry
21-32-AC	Rear-end	12/26/2021 @ 15:15	Snow	Snow
21-9-AC	Single vehicle wide turn off road	03/30/2021 @ 14:47	Clear	Dry
19-31-AC	backing collision	11/04/2019 @ 08:10		

Figures 14 and 15 depict the location of crashes that occurred on US 3 and NH 116. As noted, there are no locations that had a high rate of crashes. It should be noted that there were some collisions in the vicinity of Dunkin on NH 116. Additionally, there were a few crashes near Forest Lake Road. Tables are in the Appendix that provide the crash information for each numbered location.

Table 15 Intersection of NH 116 and US Rt. 3 in Whitefield					
Case #	Type	Date/Time	Weather	Pavement	Contributing Factor
21WH-24-AC	Other	7/08/2021 @ 13:30	Cloudy	Dry	
21WH-16-AC	Rear End	5/13/2021 @ 14:50	Clear	Dry	
21WH-3-AC	Sideswipe, same direction	1/14/2021 @ 13:51	Cloudy	Wet	
20-12-AC	Rear-end on NH 116	3/03/2020 @ 12:55			Inattention
19-6-AC	Rear-end on NH 116	1/23/2019 @ 06:50			Foot slipped off brake
19-48-AC	Hit Pedestrian	10/18/2019 @15:24			

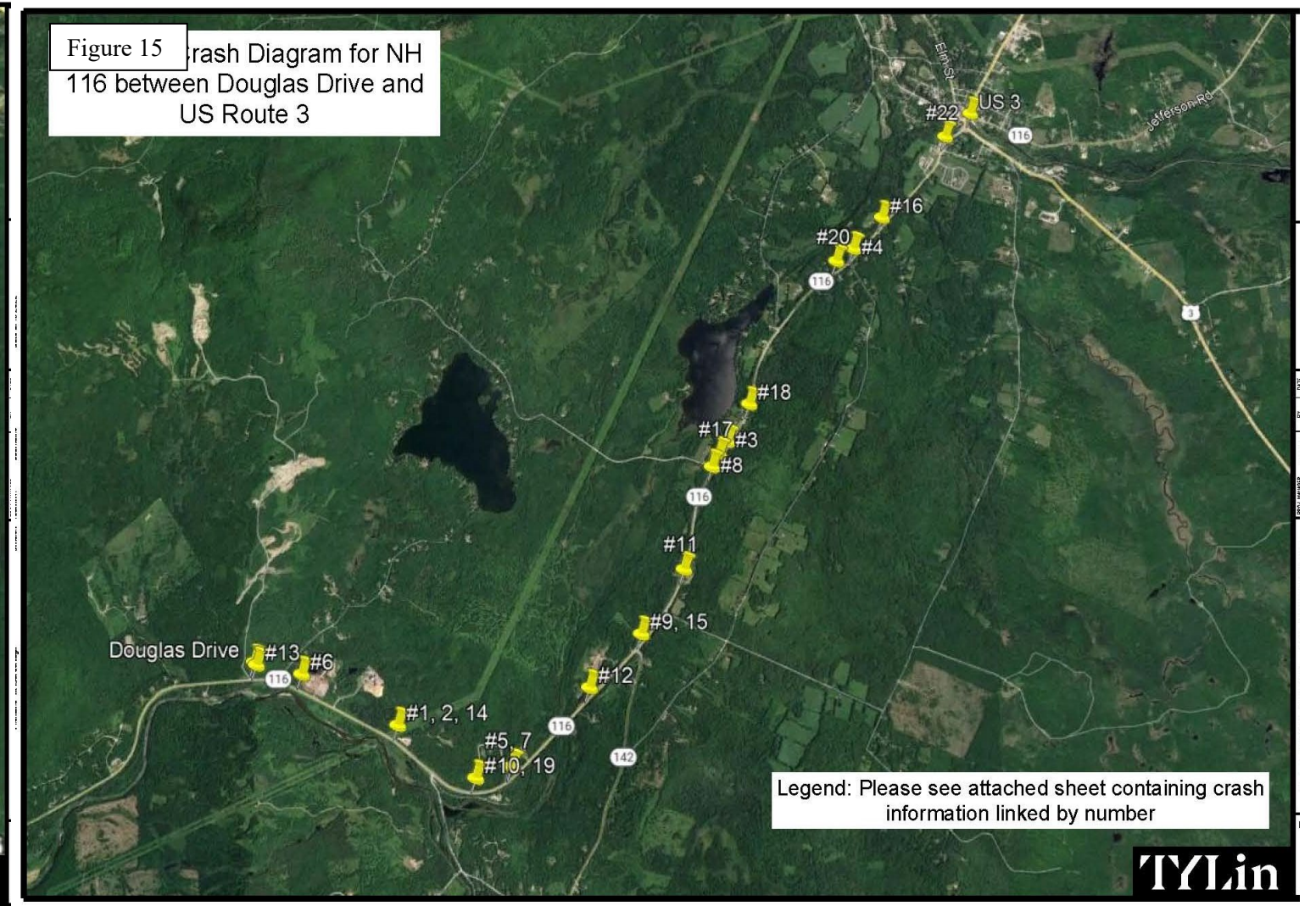
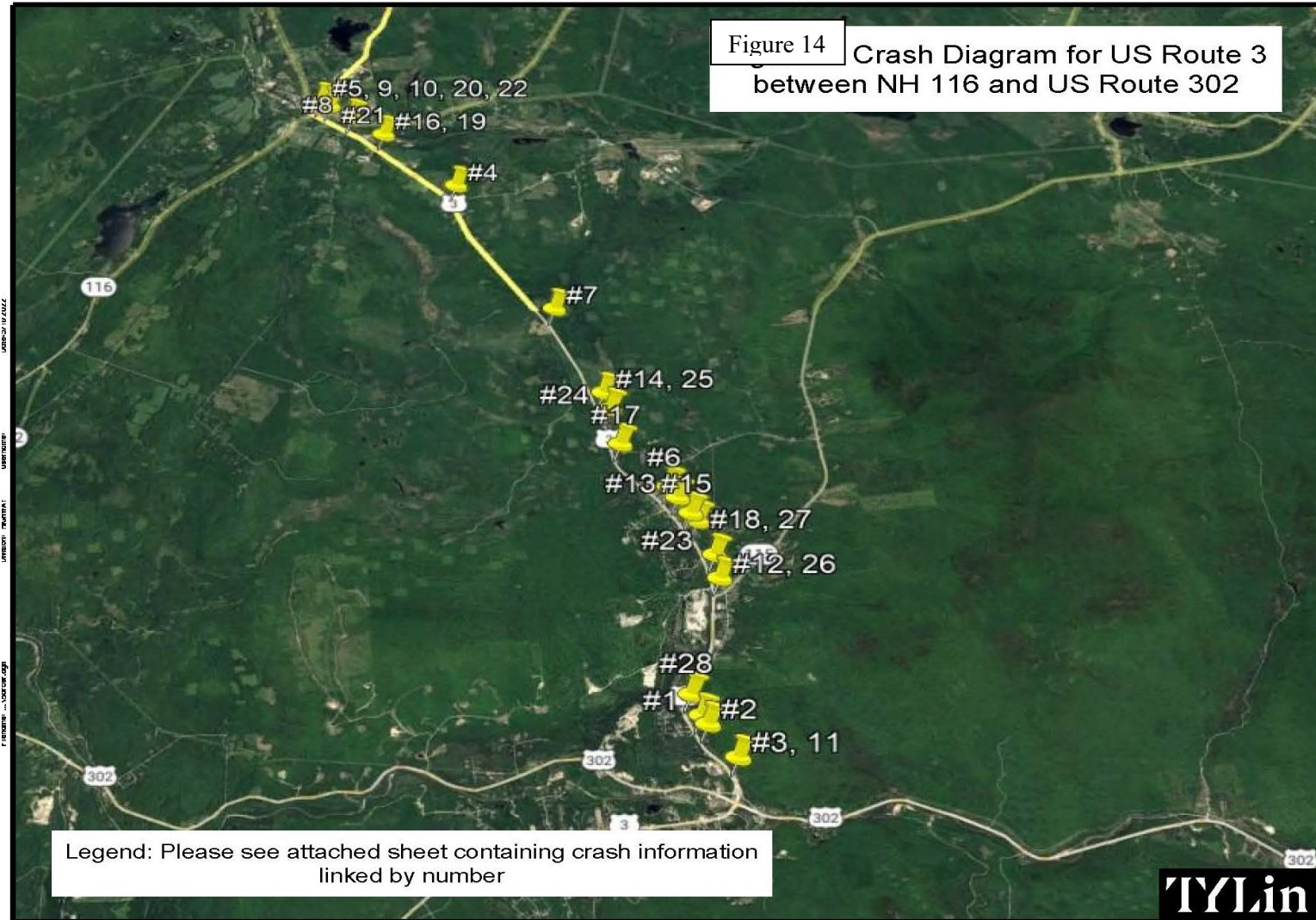


Exhibit D

Geotechnical Report Supplement



Project: Granite State Landfill
Location: Dalton, NH
Project No.: 1003.16

Log of Monitoring Well MW-03

Ground Elevation: 1190.44 ± feet
TOC Elevation: 1193.57 ± feet
PVC Elevation: 1193.28 ± feet
Datum: NAVD 1988

Sanborn, Head & Associates, Inc.

Drilling Method: Geoprobe® 8140LS Track Rig

Sampling Method: Sonic 6"/4" Casing

Groundwater Readings

Date	Time	Depth to Water	Ref. Pt.	Depth of Casing	Depth of Hole	Stab. Time
06/21/18	07:21	9'	Ground Surface	5'	15'	~ 16 hours
06/21/18	13:00	6.98'	Top of PVC	Well Installed		< 1 hour
06/28/18	13:05	12.04'	Top of PVC	Well Installed		7 Days

Drilling Company: Glacier Drilling, LLC

Foreman: M. Schock

Date Started: 06/20/18

Date Finished: 06/21/18

Logged By: M. Stein

Checked By: T. White

BORING LOG C:\USERS\MRUSSELL\DESKTOP\1003.16 LOGS.GPJ 2017 SANBORN HEAD V1.GLB 2017 SANBORN HEAD V1.GDT 11/30/20

Depth (ft)	Sample Information				Stratum		Geologic Description	Well Diagram	Well Description
	Sample No.	Depth (ft)	Pen/Rec (ft)	Field Testing Data	Log	Description			
-2									4" Dia. Protective Steel Casing with Locking Cap Set in Concrete (-3 to 2')
0	S-1	0 - 5	5.0/4.5	PID: ND		GRAVELLY SAND	S-1 (0 to 5'): Light brown, fine to coarse SAND, some fine to coarse Gravel, little Silt, trace Cobble. Moist.		2" Dia. Sch. 40 PVC Riser (-2.8 to 6.3')
2									Concrete (0 to 0.5')
4									Bentonite (1.5 to 4.5')
6	S-2	5 - 10	5.0/5.0	PID: ND		GRAVELLY SAND	S-2A (5 to 9.5'): Light brown, fine to coarse SAND, some fine to coarse Gravel, little Silt, trace Cobble. Moist.		
8									
10	S-3	10 - 15	5.0/5.0	PID: -- ppmv PID: ND		SILTY SAND	S-2B (9.5 to 10'): Tan-brown, fine to medium SAND, Silt layers present. Moist to wet. S-3A (10 to 12'): Tan-brown, fine to medium SAND, Silt layers present. Wet.		2" Dia. Sch. 40 PVC Well Screen (0.010" Slots) (6.3 to 13.3')
12									#1 Filter Sand (4.5 to 13.5')
14									
16	R-1	15 - 25	10.0/6.0	PID: -- ppmv PID: -- ppmv		TILL	S-3B (12 to 13.5'): Tan, Clayey SILT, little fine to coarse Sand, little fine to coarse Gravel. Moist. TILL.		Silt Cap (13.3 to 13.5')
18									
20						GRANITE	S-3C (13.5 to 15'): Highly broken, pink, GRANITE.		
22									
24									
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							Boring terminated at 25 feet. No refusal encountered.		
							NOTES: 1. Soil samples were screened for volatile organic compounds (VOCs) using a MiniRAE 2000 Photoionization Detector (PID) with a 10.6 eV lamp, calibrated to a 100 parts per million by volume (ppmv) isobutylene-in-air standard using a response factor of 1.0. Results are presented in ppmv; the typical detection limit is 1 ppmv. ND indicates not detected. NA indicates not available. The PID measures relative levels of VOCs. Although PID screening cannot be used directly to		
									Bentonite Chips (13.5 to 25')



Project: Granite State Landfill
 Location: Dalton, NH
 Project No.: 1003.16

Log of Monitoring Well MW-03

Ground Elevation: 1190.44 ± feet
 TOC Elevation: 1193.57 ± feet
 PVC Elevation: 1193.28 ± feet
 Datum: NAVD 1988

Sanborn, Head & Associates, Inc.

Drilling Method: Geoprobe® 8140LS Track Rig

Sampling Method: Sonic 6"/4" Casing

Groundwater Readings

Date	Time	Depth to Water	Ref. Pt.	Depth of Casing	Depth of Hole	Stab. Time
06/21/18	07:21	9'	Ground Surface	5'	15'	~ 16 hours
06/21/18	13:00	6.98'	Top of PVC	Well Installed		< 1 hour
06/28/18	13:05	12.04'	Top of PVC	Well Installed		7 Days

Drilling Company: Glacier Drilling, LLC

Foreman: M. Schock

Date Started: 06/20/18

Date Finished: 06/21/18

Logged By: M. Stein

Checked By: T. White

Depth (ft)	Sample Information				Stratum		Geologic Description	Well Diagram	Well Description
	Sample No.	Depth (ft)	Pen/Rec (ft)	Field Testing Data	Log	Description			
32							quantify VOC concentrations or identify individual compounds, the results can serve as a relative indicator for the presence of VOCs. 2. Approximately 500 gallons of potable water introduced to overburden/bedrock formations during drilling activities. 3. The presence of granite bedrock is consistent with the Bedrock Geologic Map of New Hampshire (Lyons et al., 1997), which describes Late Devonian granite of the New Hampshire Plutonic Suite in the vicinity of the site.		
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Project: Granite State Landfill
 Location: Dalton, NH
 Project No.: 1003.16

Log of Monitoring Well MW-04

Ground Elevation: 1121.66 ± feet
 TOC Elevation: 1124.76 ± feet
 PVC Elevation: 1124.46 ± feet
 Datum: NAVD 1988

Sanborn, Head & Associates, Inc.

Drilling Method: Geoprobe® 8140LS Track Rig

Sampling Method: Sonic 6"/4" Casing

Groundwater Readings

Date	Time	Depth to Water	Ref. Pt.	Depth of Casing	Depth of Hole	Stab. Time
06/21/18	12:00	6.5'	Ground Surface	Open	10.5'	15 minutes
06/21/18	14:23	8.52'	Top of PVC	Well Installed		<1 hour
06/28/18	13:49	8.78'	Top of PVC	Well Installed		7 Days

Drilling Company: Glacier Drilling, LLC

Foreman: M. Schock

Date Started: 06/21/18

Date Finished: 06/21/18

Logged By: M. Stein

Checked By: T. White

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Depth (ft)	Sample Information				Stratum		Geologic Description	Well Diagram	Well Description
	Sample No.	Depth (ft)	Pen/Rec (ft)	Field Testing Data	Log	Description			
-2								4" Dia. Protective Steel Casing with Locking Cap Set in Concrete (-3 to 2')	
0	S-1	0 - 5	5.0/3.0	PID: ND PID: -- ppmv	TOP SOIL	0.4'	S-1A (0 to 0.4'): TOPSOIL.	2" Dia. Sch. 40 PVC Riser (-2.8 to 3.8')	
2					GRAVELLY SAND		S-1B (0.4 to 5'): Brown, fine to coarse SAND, some fine to coarse Gravel, trace Silt, trace Cobble. Moist.	Concrete (0 to 0.5')	
4								#1 Filter Sand (0.5 to 1')	
6	S-2	5 - 10	5.0/4.5	PID: ND PID: ND	SAND & SILT	5'	S-2A (5 to 6.5'): Tan-brown, fine SAND and Silt, trace fine to coarse Gravel, fine to coarse Sand seams present. Moist to wet.	Bentonite Chips (1 to 3')	
8					SAND & GRAVEL	6.5'	S-2B (6.5 to 9.5'): Brown, fine to coarse SAND and fine to coarse Gravel, little Silt. Wet.	2" Dia. Sch. 40 PVC Well Screen (0.010" Slots) (3.8 to 9.8')	
10	R-1	10 - 20	9.5/0.0	PID: -- ppmv PID: -- ppmv	GRANITE	9.5'	S-2C (9.5 to 10'): Highly broken, pink, GRANITE. R-1 (10 to 20'): Severely weathered, pink, WEATHERED GRANITE.	#1 Filter Sand (3 to 9.8')	
12								Silt Cap (9.8 to 10')	
14									
16									
18									
20	R-2	20 - 22	2.0/1.0	PID: -- ppmv	GRANITE		R-2 (20 to 22'): Severely weathered, pink, WEATHERED GRANITE.	Bentonite Chips (10 to 22')	
22						22'	Boring terminated at 22 feet. No refusal encountered.		
24							NOTES: 1. Soil samples were screened for volatile organic compounds (VOCs) using a MiniRAE 2000 Photoionization Detector (PID) with a 10.6 eV lamp, calibrated to a 100 parts per million by volume (ppmv) isobutylene-in-air standard using a response factor of 1.0. Results are presented in ppmv; the typical detection limit is 1 ppmv. ND indicates not detected. NA indicates not available. The PID measures relative levels of VOCs. Although PID screening cannot be used directly to quantify VOC concentrations or identify individual compounds, the results can serve as a relative indicator for the presence of VOCs. 2. Approximately 200 gallons of potable water introduced to overburden/bedrock formations during drilling activities.		
26									
28									
30									



Project: Granite State Landfill
Location: Dalton, NH
Project No.: 1003.16

Log of Monitoring Well MW-05

Ground Elevation: 1147.69 ± feet
TOC Elevation: 1150.76 ± feet
PVC Elevation: 1150.46 ± feet
Datum: NAVD 1988

Sanborn, Head & Associates, Inc.

Drilling Method: Geoprobe® 8140LS Track Rig

Sampling Method: Sonic 6"/4" Casing

Groundwater Readings

Date	Time	Depth to Water	Ref. Pt.	Depth of Casing	Depth of Hole	Stab. Time
06/22/18	06:53	3.20'	Ground Surface	Open	14'	~ 16 hours
06/22/18	14:07	6.08'	Top of PVC	Well Installed		< 1 hour
06/28/18	11:25	5.30'	Top of PVC	Well Installed		6 Days

Drilling Company: Glacier Drilling, LLC

Foreman: M. Schock

Date Started: 06/21/18

Date Finished: 06/22/18

Logged By: M. Stein

Checked By: T. White

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Depth (ft)	Sample Information				Stratum		Geologic Description	Well Diagram	Well Description
	Sample No.	Depth (ft)	Pen/Rec (ft)	Field Testing Data	Log	Description			
-2									4" Dia. Protective Steel Casing with Locking Cap Set in Concrete (-3 to 2')
0	S-1	0 - 5	5.0/5.0	PID: 2 ppmv		---0'---	S-1A (0 to 4.5'): Brown to light brown, fine to coarse SAND and fine to coarse Gravel, trace Silt. Moist.		2" Dia. Sch. 40 PVC Riser (-2.8 to 7')
2					SAND & GRAVEL				Concrete (0 to 0.5')
4									#1 Filter Sand (0.5 to 1')
6	S-2	5 - 10	5.0/5.0	PID: -- ppmv PID: ND		---4.5'---	S-1B (4.5 to 5'): Grayish olive, Clayey SILT, some fine to coarse Sand. Moist. TILL. S-2 (5 to 10'): Olive to tan brown, SILT and fine to coarse Sand, little fine to coarse Gravel, trace Cobble. Moist to wet. TILL.		Bentonite Chips (1 to 6')
8					TILL				
10	S-3	10 - 14	4.0/4.0	PID: ND			S-3 (10 to 13'): Tan brown, SILT and fine to coarse Sand, little fine to coarse Gravel, trace Cobble, seams of Silt & Clay. Wet.		2" Dia. Sch. 40 PVC Well Screen (0.010" Slots) (7 to 13')
12									#1 Filter Sand (6 to 13')
14	R-1	14 - 25	11.0/0.0	PID: -- ppmv		---13'---	R-1 (14 to 25'): Severely weathered, pink, WEATHERED GRANITE.		Silt Cap (13 to 13.2')
16					GRANITE				
18									
20									
22									
24									
26	R-2	25 - 26	1.0/1.0	PID: -- ppmv		---26'---	R-2 (25 to 26'): Severely weathered, pink, WEATHERED GRANITE.		Bentonite Chips (13 to 26')
28							Boring terminated at 26 feet. No refusal encountered.		
30							NOTES: 1. Soil samples were screened for volatile organic compounds (VOCs) using a MiniRAE 2000 Photoionization Detector (PID) with a 10.6 eV lamp, calibrated to a 100 parts per million by volume (ppmv) isobutylene-in-air standard using a response factor of 1.0. Results are presented in ppmv; the typical		



Project: Granite State Landfill
Location: Dalton, NH
Project No.: 1003.16

Log of Monitoring Well MW-05

Ground Elevation: 1147.69 ± feet
TOC Elevation: 1150.76 ± feet
PVC Elevation: 1150.46 ± feet
Datum: NAVD 1988

Sanborn, Head & Associates, Inc.

Drilling Method: Geoprobe® 8140LS Track Rig

Sampling Method: Sonic 6"/4" Casing

Groundwater Readings

Date	Time	Depth to Water	Ref. Pt.	Depth of Casing	Depth of Hole	Stab. Time
06/22/18	06:53	3.20'	Ground Surface	Open	14'	~ 16 hours
06/22/18	14:07	6.08'	Top of PVC	Well Installed		< 1 hour
06/28/18	11:25	5.30'	Top of PVC	Well Installed		6 Days

Drilling Company: Glacier Drilling, LLC

Foreman: M. Schock

Date Started: 06/21/18

Date Finished: 06/22/18

Logged By: M. Stein

Checked By: T. White

Depth (ft)	Sample Information				Stratum		Geologic Description	Well Diagram	Well Description
	Sample No.	Depth (ft)	Pen/Rec (ft)	Field Testing Data	Log	Description			
32							detection limit is 1 ppmv. ND indicates not detected. NA indicates not available. The PID measures relative levels of VOCs. Although PID screening cannot be used directly to quantify VOC concentrations or identify individual compounds, the results can serve as a relative indicator for the presence of VOCs. 2. Approximately 250 gallons of potable water introduced to overburden/bedrock formations during drilling activities. 3. The presence of granite bedrock is consistent with the Bedrock Geologic Map of New Hampshire (Lyons et al., 1997), which describes Late Devonian granite of the New Hampshire Plutonic Suite in the vicinity of the site.		
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Project: Granite State Landfill
Location: Dalton, NH
Project No.: 1003.16

Log of Monitoring Well MW-06

Ground Elevation: 1151.43 ± feet
TOC Elevation: 1154.21 ± feet
PVC Elevation: 1153.94 ± feet
Datum: NAVD 1988

Sanborn, Head & Associates, Inc.

Drilling Method: Geoprobe® 8140LS Track Rig

Sampling Method: Sonic 6"/4" Casing

Groundwater Readings

Date	Time	Depth to Water	Ref. Pt.	Depth of Casing	Depth of Hole	Stab. Time
06/25/18	12:49	10.08'	Top of PVC	Well Installed		< 1 hour
06/28/18	10:39	10.18'	Top of PVC	Well Installed		3 Days

Drilling Company: Glacier Drilling, LLC

Foreman: M. Schock

Date Started: 06/25/18

Date Finished: 06/25/18

Logged By: M. Stein

Checked By: T. White

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Depth (ft)	Sample Information				Stratum		Geologic Description	Well Diagram	Well Description
	Sample No.	Depth (ft)	Pen/Rec (ft)	Field Testing Data	Log	Description			
-2									4" Dia. Protective Steel Casing with Locking Cap Set in Concrete (-3 to 2')
0	S-1	0 - 5	5.0/5.0	PID: ND		TOPSOIL	(0 to 0.2'): TOPSOIL.		2" Dia. Sch. 40 PVC Riser (-2.8 to 4.2')
2							S-1 (0.2 to 5'): Orangish brown to light brown, fine to coarse SAND, some fine to coarse Gravel, little Silt, trace Cobble. Moist.		Concrete (0 to 0.5')
4									Bentonite Chips (0.5 to 3')
6	S-2	5 - 10	5.0/5.0	PID: ND		SAND & GRAVEL	S-2 (5 to 10'): Brown, fine to coarse SAND and fine to coarse Gravel, little Silt, trace Cobble. Moist to very moist.		2" Dia. Sch. 40 PVC Well Screen (0.010" Slots) (4.2 to 12.2')
8									#1 Filter Sand (3 to 12.5')
10	S-3	10 - 12.5	2.5/2.0	PID: ND			S-3 (10 to 12'): Brown, fine to coarse SAND and fine to coarse Gravel, little Silt, trace Cobble, fine Sand & Silt layer present at 11.6 feet. Wet.		
12									
14	R-1	12.5 - 22.5	10.0/10.0	PID: -- ppmv		GRANITE	R-1 (12.5 to 22.5'): Slightly weathered, pink, pegmatitic GRANITE, weathered zone exhibiting apparent iron staining from approximately 16.5 to 18 feet.		Silt Cap (12.2 to 12.4')
16									
18									Bentonite Chips (12.5 to 22.5')
20									
22									
24							Boring terminated at 22.5 feet. No refusal encountered.		
26							NOTES: 1. Soil samples were screened for volatile organic compounds (VOCs) using a MiniRAE 2000 Photoionization Detector (PID) with a 10.6 eV lamp, calibrated to a 100 parts per million by volume (ppmv) isobutylene-in-air standard using a response factor of 1.0. Results are presented in ppmv; the typical detection limit is 1 ppmv. ND indicates not detected. NA indicates not available. The PID measures relative levels of VOCs. Although PID screening cannot be used directly to quantify VOC concentrations or identify individual compounds, the results can serve as a relative indicator for the presence of VOCs. 2. Approximately 110 gallons of potable water introduced to		
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Project: Granite State Landfill
 Location: Dalton, NH
 Project No.: 1003.16

Log of Monitoring Well MW-06

Ground Elevation: 1151.43 ± feet
 TOC Elevation: 1154.21 ± feet
 PVC Elevation: 1153.94 ± feet
 Datum: NAVD 1988

Sanborn, Head & Associates, Inc.

Drilling Method: Geoprobe® 8140LS Track Rig

Sampling Method: Sonic 6"/4" Casing

Groundwater Readings

Date	Time	Depth to Water	Ref. Pt.	Depth of Casing	Depth of Hole	Stab. Time
06/25/18	12:49	10.08'	Top of PVC	Well Installed		< 1 hour
06/28/18	10:39	10.18'	Top of PVC	Well Installed		3 Days

Drilling Company: Glacier Drilling, LLC

Foreman: M. Schock

Date Started: 06/25/18

Date Finished: 06/25/18

Logged By: M. Stein

Checked By: T. White

Depth (ft)	Sample Information				Stratum		Geologic Description	Well Diagram	Well Description
	Sample No.	Depth (ft)	Pen/Rec (ft)	Field Testing Data	Log	Description			
32							overburden/bedrock formations during drilling activities. 3. The presence of granite bedrock is consistent with the Bedrock Geologic Map of New Hampshire (Lyons et al., 1997), which describes Late Devonian granite of the New Hampshire Plutonic Suite in the vicinity of the site.		
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Project: Granite State Landfill
Location: Dalton, NH
Project No.: 1003.16

Log of Monitoring Well MW-07

Ground Elevation: 1141.54 ± feet
TOC Elevation: 1144.55 ± feet
PVC Elevation: 1144.31 ± feet
Datum: NAVD 1988

Sanborn, Head & Associates, Inc.

Drilling Method: Geoprobe® 8140LS Track Rig

Sampling Method: Sonic 6"/4" Casing

Groundwater Readings

Date	Time	Depth to Water	Ref. Pt.	Depth of Casing	Depth of Hole	Stab. Time
06/26/18	07:24	7.30'	Ground Surface	0'	24'	~ 16 hours
06/26/18	10:28	21.38'	Top of PVC	Well Installed		< 1 hour
06/28/18	12:13	10.49'	Top of PVC	Well Installed		2 Days

Drilling Company: Glacier Drilling, LLC

Foreman: M. Schock

Date Started: 06/25/18

Date Finished: 06/26/18

Logged By: M. Stein

Checked By: T. White

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Depth (ft)	Sample Information				Stratum		Geologic Description	Well Diagram	Well Description
	Sample No.	Depth (ft)	Pen/Rec (ft)	Field Testing Data	Log	Description			
-2								4" Dia. Protective Steel Casing with Locking Cap Set in Concrete (-3 to 2')	
0	S-1	0 - 5	5.0/5.0	PID: ND		TOPSOIL	S-1 (0 to 5'): Orangish brown (upper 1 foot) to light brown, fine to coarse SAND, some fine to coarse Gravel. Moist.	Concrete (0 to 0.5')	
2								Native Material (0.5 to 3')	
6	S-2	5 - 10	5.0/5.0	PID: ND		SAND & GRAVEL	S-2 (5 to 10'): Light brown, fine to coarse SAND and fine to coarse Gravel, little Silt, trace Cobble. Moist.	Grout (3 to 9')	
10	S-3	10 - 15	5.0/4.0	PID: ND PID: ND			S-3A (10 to 10.5'): Light brown, fine to coarse SAND and fine to coarse Gravel, little Silt, trace Cobble. Wet. S-3B (10.5 to 15'): Dark tan, Clayey SILT, some fine to coarse Sand, trace fine to coarse Gravel. Moist. TILL.	Bentonite Chips (9 to 12.5')	
16	S-4	15 - 18.5	3.5/3.5	PID: ND PID: ND		TILL	S-4A (15 to 16.5'): Dark tan, Clayey SILT, Silt, some fine to coarse Sand, trace fine to coarse Gravel, trace Cobble. Moist. TILL. S-4B (16.5 to 18.5'): Dark tan to olive, Clayey SILT to SILT & CLAY, some fine to coarse SAND, trace fine to coarse Gravel, trace Cobble. Very Moist. TILL.	2" Dia. Sch. 40 PVC Well Screen (0.010" Slots) (14 to 24')	
20	S-5	18.5 - 24	5.5/5.5	PID: ND			S-5 (18.5 to 24'): Dark tan to olive, Clayey SILT to SILT & CLAY, some fine to coarse SAND, trace fine to coarse Gravel, trace Cobble. Very Moist. TILL.	#1 Filter Sand (12.5 to 25')	
24	R-1	24 - 34	10.0/4.0	PID: -- ppmv		GRANITE	R-1 (24 to 34'): Severely weathered, pink, WEATHERED GRANITE. (*Rock surface based on driller observation).	Silt Cap (24 to 24.2')	
30								Bentonite Chips (25 to 34')	



Project: Granite State Landfill
 Location: Dalton, NH
 Project No.: 1003.16

Log of Monitoring Well MW-07

Ground Elevation: 1141.54 ± feet
 TOC Elevation: 1144.55 ± feet
 PVC Elevation: 1144.31 ± feet
 Datum: NAVD 1988

Sanborn, Head & Associates, Inc.

Drilling Method: Geoprobe® 8140LS Track Rig

Sampling Method: Sonic 6"/4" Casing

Groundwater Readings

Date	Time	Depth to Water	Ref. Pt.	Depth of Casing	Depth of Hole	Stab. Time
06/26/18	07:24	7.30'	Ground Surface	0'	24'	~ 16 hours
06/26/18	10:28	21.38'	Top of PVC	Well Installed		< 1 hour
06/28/18	12:13	10.49'	Top of PVC	Well Installed		2 Days

Drilling Company: Glacier Drilling, LLC

Foreman: M. Schock

Date Started: 06/25/18

Date Finished: 06/26/18

Logged By: M. Stein

Checked By: T. White

Depth (ft)	Sample Information				Stratum		Geologic Description	Well Diagram	Well Description
	Sample No.	Depth (ft)	Pen/Rec (ft)	Field Testing Data	Log	Description			
32					+	GRANITE			
34					+	-----34'-----	Boring terminated at 34 feet. No refusal encountered.		
36							NOTES: 1. Soil samples were screened for volatile organic compounds (VOCs) using a MiniRAE 2000 Photoionization Detector (PID) with a 10.6 eV lamp, calibrated to a 100 parts per million by volume (ppmv) isobutylene-in-air standard using a response factor of 1.0. Results are presented in ppmv; the typical detection limit is 1 ppmv. ND indicates not detected. NA indicates not available. The PID measures relative levels of VOCs. Although PID screening cannot be used directly to quantify VOC concentrations or identify individual compounds, the results can serve as a relative indicator for the presence of VOCs. 2. Approximately 100 gallons of potable water introduced to overburden/bedrock formations during drilling activities. 3. The presence of granite bedrock is consistent with the Bedrock Geologic Map of New Hampshire (Lyons et al., 1997), which describes Late Devonian granite of the New Hampshire Plutonic Suite in the vicinity of the site.		
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Project: Granite State Landfill
 Location: Dalton, NH
 Project No.: 1003.16

Log of Monitoring Well MW-08

Ground Elevation: 1112.67 ± feet
 TOC Elevation: 1115.71 ± feet
 PVC Elevation: 1115.36 ± feet
 Datum: NAVD 1988

Sanborn, Head & Associates, Inc.

Drilling Method: Geoprobe® 8140LS Track Rig

Sampling Method: Sonic 6"/4" Casing

Groundwater Readings

Date	Time	Depth to Water	Ref. Pt.	Depth of Casing	Depth of Hole	Stab. Time
06/26/18	15:10	11.75'	Top of PVC	Well Installed		< 1 hour
06/28/18	15:20	11.01'	Top of PVC	Well Installed		2 Days

Drilling Company: Glacier Drilling, LLC

Foreman: M. Schock

Date Started: 06/26/18

Date Finished: 06/26/18

Logged By: M. Stein

Checked By: T. White

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Depth (ft)	Sample Information				Stratum		Geologic Description	Well Diagram	Well Description
	Sample No.	Depth (ft)	Pen/Rec (ft)	Field Testing Data	Log	Description			
-2									4" Dia. Protective Steel Casing with Locking Cap Set in Concrete (-3 to 2')
0	S-1	0 - 5	5.0/3.0	PID: ND		---	S-1 (0 to 5'): Brown to light brown, fine to coarse SAND, some Silt, trace fine to coarse Gravel. Moist.		2" Dia. Sch. 40 PVC Riser (-2.8 to 4.5')
2									Concrete (0 to 0.5')
4									Bentonite (0.5 to 3')
6	S-2	5 - 10	5.0/5.0	PID: ND		---	S-2 (5 to 10'): Brown, fine to coarse SAND, trace Silt. Moist to wet.		2" Dia. Sch. 40 PVC Well Screen (0.010" Slots) (4.5 to 11.5')
8									#1 Filter Sand (3 to 11.8')
10	S-3	10 - 12.5	2.5/2.5	PID: ND			S-3A (10 to 11.8'): Brown, fine to coarse SAND, trace Silt, trace fine to coarse Gravel, seams of fine Sand & Silt. Wet.		
12	R-1	12.5 - 22.5	10.0/8.0	PID: -- ppmv PID: -- ppmv		---	S-3B (11.8 to 12.5'): Fresh, pink, GRANITE. R-1 (12.5 to 22.5'): Fresh, pink, GRANITE.		Silt Cap (11.5 to 11.7')
14									
16									
18									
20									
22						---	Boring terminated at 22.5 feet. No refusal encountered.		Bentonite Chips (11.8 to 22.5')
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NOTES:

- Soil samples were screened for volatile organic compounds (VOCs) using a MiniRAE 2000 Photoionization Detector (PID) with a 10.6 eV lamp, calibrated to a 100 parts per million by volume (ppmv) isobutylene-in-air standard using a response factor of 1.0. Results are presented in ppmv; the typical detection limit is 1 ppmv. ND indicates not detected. NA indicates not available. The PID measures relative levels of VOCs. Although PID screening cannot be used directly to quantify VOC concentrations or identify individual compounds, the results can serve as a relative indicator for the presence of VOCs.
- Approximately 150 gallons of potable water introduced to



Project: Granite State Landfill
 Location: Dalton, NH
 Project No.: 1003.16

Log of Monitoring Well MW-08

Ground Elevation: 1112.67 ± feet
 TOC Elevation: 1115.71 ± feet
 PVC Elevation: 1115.36 ± feet
 Datum: NAVD 1988

Sanborn, Head & Associates, Inc.

Drilling Method: Geoprobe® 8140LS Track Rig

Sampling Method: Sonic 6"/4" Casing

Groundwater Readings

Date	Time	Depth to Water	Ref. Pt.	Depth of Casing	Depth of Hole	Stab. Time
06/26/18	15:10	11.75'	Top of PVC	Well Installed		< 1 hour
06/28/18	15:20	11.01'	Top of PVC	Well Installed		2 Days

Drilling Company: Glacier Drilling, LLC

Foreman: M. Schock

Date Started: 06/26/18

Date Finished: 06/26/18

Logged By: M. Stein

Checked By: T. White

Depth (ft)	Sample Information				Stratum		Geologic Description	Well Diagram	Well Description
	Sample No.	Depth (ft)	Pen/Rec (ft)	Field Testing Data	Log	Description			
32							overburden/bedrock formations during drilling activities. 3. The presence of granite bedrock is consistent with the Bedrock Geologic Map of New Hampshire (Lyons et al., 1997), which describes Late Devonian granite of the New Hampshire Plutonic Suite in the vicinity of the site.		
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Project: Granite State Landfill
 Location: Dalton, NH
 Project No.: 1003.16

Log of Monitoring Well MW-09

Ground Elevation: 1117.21 ± feet
 TOC Elevation: 1120.18 ± feet
 PVC Elevation: 1119.84 ± feet
 Datum: NAVD 1988

Sanborn, Head & Associates, Inc.

Drilling Method: Geoprobe® 8140LS Track Rig

Sampling Method: Sonic 6"/4" Casing

Groundwater Readings

Date	Time	Depth to Water	Ref. Pt.	Depth of Casing	Depth of Hole	Stab. Time
06/27/18	10:50	12.59'	Top of PVC	Well Installed		< 1 hour
06/28/18	14:32	12.71'	Top of PVC	Well Installed		1 Day

Drilling Company: Glacier Drilling, LLC

Foreman: M. Schock

Date Started: 06/27/18

Date Finished: 06/27/18

Logged By: M. Stein

Checked By: T. White

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Depth (ft)	Sample Information				Stratum		Geologic Description	Well Diagram	Well Description
	Sample No.	Depth (ft)	Pen/Rec (ft)	Field Testing Data	Log	Description			
-2									4" Dia. Protective Steel Casing with Locking Cap Set in Concrete (-3 to 2')
0	S-1	0 - 1.5	1.5/1.5	PID: ND		FILL	S-1 (0 to 1.5'): Brown, fine to coarse SAND, little fine to coarse Gravel, trace Silt. Dry. FILL.		Concrete (0 to 0.5')
2						BOULDER	(1.5 to 5'): BOULDER.		Bentonite Chips (0.5 to 3')
6	S-2	5 - 10	5.0/5.0	PID: ND			S-2 (5 to 10'): Brown, fine to coarse SAND, little fine to coarse Gravel, trace Cobble, trace Silt. Moist.		2" Dia. Sch. 40 PVC Well Screen (0.010" Slots) (4.5 to 14.5')
10	S-3	10 - 15	5.0/5.0	PID: ND		SAND	S-3 (10 to 15'): Brown, fine to coarse SAND, some fine Gravel, trace Cobble, trace Silt. Moist to wet.		#1 Filter Sand (3 to 14.5')
16	R-1	15 - 25	10.0/6.0	PID: -- ppmv		GRANITE	R-1 (15 to 25'): Moderately weathered, pink, pegmatitic GRANITE.		Silt Cap (14.5 to 14.7')
25							Boring terminated at 25 feet. No refusal encountered.		Bentonite Chips (14.7 to 25')
<p>NOTES:</p> <p>1. Soil samples were screened for volatile organic compounds (VOCs) using a MiniRAE 2000 Photoionization Detector (PID) with a 10.6 eV lamp, calibrated to a 100 parts per million by volume (ppmv) isobutylene-in-air standard using a response factor of 1.0. Results are presented in ppmv; the typical detection limit is 1 ppmv. ND indicates not detected. NA indicates not available. The PID measures relative levels of VOCs. Although PID screening cannot be used directly to</p>									



Project: Granite State Landfill
 Location: Dalton, NH
 Project No.: 1003.16

Log of Monitoring Well MW-09

Ground Elevation: 1117.21 ± feet
 TOC Elevation: 1120.18 ± feet
 PVC Elevation: 1119.84 ± feet
 Datum: NAVD 1988

Sanborn, Head & Associates, Inc.

Drilling Method: Geoprobe® 8140LS Track Rig

Sampling Method: Sonic 6"/4" Casing

Groundwater Readings

Date	Time	Depth to Water	Ref. Pt.	Depth of Casing	Depth of Hole	Stab. Time
06/27/18	10:50	12.59'	Top of PVC	Well Installed		< 1 hour
06/28/18	14:32	12.71'	Top of PVC	Well Installed		1 Day

Drilling Company: Glacier Drilling, LLC

Foreman: M. Schock

Date Started: 06/27/18

Date Finished: 06/27/18

Logged By: M. Stein

Checked By: T. White

Depth (ft)	Sample Information				Stratum		Geologic Description	Well Diagram	Well Description
	Sample No.	Depth (ft)	Pen/Rec (ft)	Field Testing Data	Log	Description			
32							<p>quantify VOC concentrations or identify individual compounds, the results can serve as a relative indicator for the presence of VOCs.</p> <p>2. Approximately 250 gallons of potable water introduced to overburden/bedrock formations during drilling activities.</p> <p>3. The presence of granite bedrock is consistent with the Bedrock Geologic Map of New Hampshire (Lyons et al., 1997), which describes Late Devonian granite of the New Hampshire Plutonic Suite in the vicinity of the site.</p>		
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Project: Granite State Landfill
Location: Dalton, NH
Project No.: 1003.16

Log of Monitoring Well MW-10

Ground Elevation: 1134.81 ± feet
TOC Elevation: 1137.73 ± feet
PVC Elevation: 1137.48 ± feet
Datum: NAVD 1988

Sanborn, Head & Associates, Inc.

Drilling Method: Geoprobe® 8140LS Track Rig

Sampling Method: Sonic 6"/4" Casing

Drilling Company: Glacier Drilling, LLC

Foreman: M. Aldo/M. Schock

Date Started: 07/16/18

Date Finished: 07/16/18

Logged By: M. Stein

Checked By: T. White

Groundwater Readings

Date	Time	Depth to Water	Ref. Pt.	Depth of Casing	Depth of Hole	Stab. Time
07/16/18	17:35	9.18'	Top of PVC	Well Installed		<1 Hour
07/17/18	10:36	9.22'	Top of PVC	Well Installed		<1 Day
07/20/18	---	9.35'	Top of PVC	Well Installed		4 Days

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Depth (ft)	Sample Information				Stratum		Geologic Description	Well Diagram	Well Description
	Sample No.	Depth (ft)	Pen/Rec (ft)	Field Testing Data	Log	Description			
-2									4" Dia. Protective Steel Casing with Locking Cap Set in Concrete (-3 to 2')
0	S-1	0 - 5	5.0/4.0	PID: ND	---	TOPSOIL	S-1A (0 to 2'): Orange, fine to medium SAND and Silt, trace fine to coarse Gravel, very few Roots. Moist. TOPSOIL.		2" Dia. Sch. 40 PVC Riser (-2.8 to 4.2')
2				PID: ND	---	GRAVELLY SAND	S-1B (2 to 5'): Tan, fine to coarse SAND, some fine to coarse Gravel, little Silt, trace Cobbles. Moist.		Native Material (0.5 to 1')
4					---	COBBLE			Bentonite Chips (1 to 3')
6	S-2	5 - 10	5.0/5.0	PID: ND	---	GLACIAL TILL	S-2A (5 to 7.7'): Olive, fine to coarse SAND, little Silt, trace fine to coarse Gravel. Wet. TILL.		2" Dia. Sch. 40 PVC Well Screen (0.010" Slots) (4.2 to 7.7')
8				PID: ND	---		S-2B (7.7 to 10'): Moderately weathered, pink, pegmatitic GRANITE.		#1 Filter Sand (3 to 8')
10	R-1	10 - 15	5.0/5.0	PID: --ppmv	+	GRANITE	R-1 (10 to 15'): Moderately weathered, pink, pegmatitic GRANITE.		Silt Cap (7.7 to 7.9')
12					+				
14					+				
16	R-2	15 - 20	5.0/1.5	PID: --ppmv	+		R-2 (15 to 20'): Moderately to slightly weathered, pink, GRANITE.		Bentonite Chips (8 to 20')
18					+				
20					+				
22					+				
24					+				
26					+				
28					+				
30					+				
					---		Boring terminated at 20 feet. No refusal encountered.		
							<p>NOTES:</p> <ol style="list-style-type: none"> Soil samples were screened for volatile organic compounds (VOCs) using a MiniRAE 2000 Photoionization Detector (PID) with a 10.6 eV lamp, calibrated to a 100 parts per million by volume (ppmv) isobutylene-in-air standard using a response factor of 1.0. Results are presented in ppmv; the typical detection limit is 1 ppmv. ND indicates not detected. NA indicates not available. The PID measures relative levels of VOCs. Although PID screening cannot be used directly to quantify VOC concentrations or identify individual compounds, the results can serve as a relative indicator for the presence of VOCs. Approximately 75 gallons of potable water introduced to overburden/bedrock formations during drilling activities. The presence of granite bedrock is consistent with the Bedrock Geologic Map of New Hampshire (Lyons et al., 1997), which describes Late Devonian granite of the New Hampshire Plutonic Suite in the vicinity of the site. 		



Project: Granite State Landfill
Location: Dalton, NH
Project No.: 1003.16

Log of Monitoring Well MW-11

Ground Elevation: 1139.39 ± feet
TOC Elevation: 1142.43 ± feet
PVC Elevation: 1142.21 ± feet
Datum: NAVD 1988

Sanborn, Head & Associates, Inc.

Drilling Method: Geoprobe® 8140LS Track Rig

Sampling Method: Sonic 6"/4" Casing

Groundwater Readings

Date	Time	Depth to Water	Ref. Pt.	Depth of Casing	Depth of Hole	Stab. Time
07/17/18	11:20	7.19'	Top of PVC	Well Installed		<1 Hour
07/20/18	---	8.32'	Top of PVC	Well Installed		4 Days

Drilling Company: Glacier Drilling, LLC

Foreman: M. Aldo/M. Schock

Date Started: 07/17/18

Date Finished: 07/17/18

Logged By: M. Stein

Checked By: T. White

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Depth (ft)	Sample Information				Stratum		Geologic Description	Well Diagram	Well Description
	Sample No.	Depth (ft)	Pen/Rec (ft)	Field Testing Data	Log	Description			
-2								4" Dia. Protective Steel Casing with Locking Cap Set in Concrete (-3 to 2')	
0	S-1	0 - 5	5.0/4.0	PID: ND		TOPSOIL	S-1A (0 to 1'): TOPSOIL.	2" Dia. Sch. 40 PVC Riser (-2.8 to 3.8')	
2				PID: -- ppmv PID: ND		SILT & SAND	S-1B (1 to 1.5'): Orange, SILT and fine to coarse Sand. Moist.	Native Material (0.5 to 1')	
4							S-1C (1.5 to 5'): Olive/tan, Clayey SILT, some fine to coarse Sand, trace Gravel, trace Cobbles. Moist. TILL.	Bentonite Chips (1 to 3')	
6	S-2	5 - 10	5.0/4.0	PID: ND		GLACIAL TILL	S-2 (5 to 10'): Olive, fine to coarse SAND and fine to coarse Gravel, some Silt, trace Cobbles, grading into olive/tan Clayey Silt, some fine to coars Sand, trace fine to coarse Gravel, trace Cobbles. Moist. TILL.	2" Dia. Sch. 40 PVC Well Screen (0.010" Slots) (3.8 to 10.8')	
10	S-3	10 - 13	3.0/1.5	PID: ND			S-3A (10 to 11'): Olive, SILT and fine Sand, fine to medium Sand partings throughout. Wet. TILL.	#1 Filter Sand (3 to 11')	
12				PID: ND			S-3B (11 to 13'): Fresh, pink, GRANITE.	Silt Cap (10.8 to 11')	
14	R-1	13 - 18	5.0/4.0	PID: -- ppmv			R-1 (13 to 18'): Fresh, pink, GRANITE.		
18	R-2	18 - 23	5.0/5.5	PID: -- ppmv		GRANITE	R-2 (18 to 23'): Fresh, pink, GRANITE.	Bentonite Pellets (11 to 23')	
23							Boring terminated at 23 feet. No refusal encountered.		
24	<p>NOTES:</p> <p>1. Soil samples were screened for volatile organic compounds (VOCs) using a MiniRAE 2000 Photoionization Detector (PID) with a 10.6 eV lamp, calibrated to a 100 parts per million by volume (ppmv) isobutylene-in-air standard using a response factor of 1.0. Results are presented in ppmv; the typical detection limit is 1 ppmv. ND indicates not detected. NA indicates not available. The PID measures relative levels of VOCs. Although PID screening cannot be used directly to quantify VOC concentrations or identify individual compounds, the results can serve as a relative indicator for the presence of VOCs.</p> <p>2. Approximately 275 gallons of potable water introduced to</p>								



Project: Granite State Landfill
 Location: Dalton, NH
 Project No.: 1003.16

Log of Monitoring Well MW-11

Ground Elevation: 1139.39 ± feet
 TOC Elevation: 1142.43 ± feet
 PVC Elevation: 1142.21 ± feet
 Datum: NAVD 1988

Sanborn, Head & Associates, Inc.

Drilling Method: Geoprobe® 8140LS Track Rig

Sampling Method: Sonic 6"/4" Casing

Groundwater Readings

Date	Time	Depth to Water	Ref. Pt.	Depth of Casing	Depth of Hole	Stab. Time
07/17/18	11:20	7.19'	Top of PVC	Well Installed		<1 Hour
07/20/18	---	8.32'	Top of PVC	Well Installed		4 Days

Drilling Company: Glacier Drilling, LLC

Foreman: M. Aldo/M. Schock

Date Started: 07/17/18

Date Finished: 07/17/18

Logged By: M. Stein

Checked By: T. White

Depth (ft)	Sample Information				Stratum		Geologic Description	Well Diagram	Well Description
	Sample No.	Depth (ft)	Pen/Rec (ft)	Field Testing Data	Log	Description			
32							overburden/bedrock formations during drilling activities. 3. The presence of granite bedrock is consistent with the Bedrock Geologic Map of New Hampshire (Lyons et al., 1997), which describes Late Devonian granite of the New Hampshire Plutonic Suite in the vicinity of the site.		
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Project: Granite State Landfill
Location: Dalton, NH
Project No.: 1003.16

Log of Monitoring Well MW-12

Ground Elevation: 1173.97 ± feet
TOC Elevation: 1176.96 ± feet
PVC Elevation: 1176.69 ± feet
Datum: NAVD 1988

Sanborn, Head & Associates, Inc.

Drilling Method: Geoprobe® 8140LS Track Rig

Sampling Method: Sonic 6"/4" Casing

Groundwater Readings

Date	Time	Depth to Water	Ref. Pt.	Depth of Casing	Depth of Hole	Stab. Time
07/18/18	10:49	10.11'	Top of PVC	Well Installed		<1 Hour
07/20/18	---	9.75'	Top of PVC	Well Installed		4 Days

Drilling Company: Glacier Drilling, LLC

Foreman: M. Aldo/M. Schock

Date Started: 07/18/18

Date Finished: 07/18/18

Logged By: M. Stein

Checked By: T. White

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Depth (ft)	Sample Information				Stratum		Geologic Description	Well Diagram	Well Description
	Sample No.	Depth (ft)	Pen/Rec (ft)	Field Testing Data	Log	Description			
-2								4" Dia. Protective Steel Casing with Locking Cap Set in Concrete (-3 to 2')	
0	S-1	0 - 5	5.0/4.0	PID: ND		TOPSOIL	S-1A (0 to 1'): TOPSOIL.	2" Dia. Sch. 40 PVC Riser (-2.8 to 3.9')	
2				PID: ND		GRAVELLY SAND	S-1B (1 to 5'): Dark tan, fine to coarse SAND, some fine to coarse Gravel, little Silt. Moist.	Native Material (0.5 to 1')	
4								Bentonite Chips (1 to 3')	
6	S-2	5 - 11	6.0/5.5	PID: ND		GLACIAL TILL	S-2A (5 to 10'): Olive, Clayey SILT to Silt & Clay, some fine to coarse Sand, little fine to coarse Gravel, trace Cobbles. Moist to wet. TILL.	2" Dia. Sch. 40 PVC Well Screen (0.010" Slots) (3.9 to 9.9')	
8								#1 Filter Sand (3 to 10')	
10				PID: ND			S-2B (10 to 11'): Fresh, pink, GRANITE.	Silt Cap (9.9 to 10.1')	
12	R-1	11 - 20	9.0/4.5	PID: -- ppmv		GRANITE	R-1 (11 to 20'): Slightly to moderately weathered, pink, GRANITE, Presumed weathered/water bearing zones noted by driller from approximately 15-16 feet and 17-18 feet. Competent rock noted from 18-20 feet. Many rock fragments in recovery with apparent iron staining..		
14								Bentonite Chips (10 to 20')	
20							Boring terminated at 20 feet. No refusal encountered.		
22	<p>NOTES:</p> <p>1. Soil samples were screened for volatile organic compounds (VOCs) using a MiniRAE 2000 Photoionization Detector (PID) with a 10.6 eV lamp, calibrated to a 100 parts per million by volume (ppmv) isobutylene-in-air standard using a response factor of 1.0. Results are presented in ppmv; the typical detection limit is 1 ppmv. ND indicates not detected. NA indicates not available. The PID measures relative levels of VOCs. Although PID screening cannot be used directly to quantify VOC concentrations or identify individual compounds, the results can serve as a relative indicator for the presence of VOCs.</p> <p>2. Approximately 250 gallons of potable water introduced to overburden/bedrock formations during drilling activities.</p> <p>3. The presence of granite bedrock is consistent with the Bedrock Geologic Map of New Hampshire (Lyons et al., 1997), which describes Late Devonian granite of the New Hampshire Plutonic Suite in the vicinity of the site.</p>								



Project: Granite State Landfill
Location: Dalton, NH
Project No.: 1003.16

Log of Monitoring Well MW-13

Ground Elevation: 1188.16 ± feet
TOC Elevation: 1191.11 ± feet
PVC Elevation: 1190.91 ± feet
Datum: NAVD 1988

Sanborn, Head & Associates, Inc.

Drilling Method: Geoprobe® 8140LS Track Rig

Sampling Method: Sonic 6"/4" Casing

Groundwater Readings

Date	Time	Depth to Water	Ref. Pt.	Depth of Casing	Depth of Hole	Stab. Time
07/18/18	15:34	7.02'	Top of PVC	Well Installed		<1 Hour
07/20/18	---	8.60'	Top of PVC	Well Installed		4 Days

Drilling Company: Glacier Drilling, LLC

Foreman: M. Aldo/M. Schock

Date Started: 07/18/18

Date Finished: 07/18/18

Logged By: M. Stein

Checked By: T. White

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Depth (ft)	Sample Information				Stratum		Geologic Description	Well Diagram	Well Description
	Sample No.	Depth (ft)	Pen/Rec (ft)	Field Testing Data	Log	Description			
-2								4" Dia. Protective Steel Casing with Locking Cap Set in Concrete (-3 to 2')	
0	S-1	0 - 5	5.0/4.0	PID: ND		TOPSOIL	S-1A (0 to 1'): TOPSOIL.	2" Dia. Sch. 40 PVC Riser (-2.8 to 3.9')	
2				PID: ND		SILTY SAND	S-1B (1 to 3.5'): Light brown, fine to coarse SAND, some Silt, little fine to coarse Gravel. Moist.	Native Material (0.5 to 1')	
4				PID: ND			S-1C (3.5 to 5'): Dark tan, Clayey SILT, some fine to coarse Sand, little fine to coarse Gravel, trace Cobbles. Moist. TILL.	Bentonite Chips (1 to 3')	
6	S-2	5 - 10	5.0/5.0	PID: ND		GLACIAL TILL	S-2 (5 to 10'): Dark tan, fine to medium SAND and Silt, little fine to coarse Gravel, trace Cobbles. Wet. TILL.	2" Dia. Sch. 40 PVC Well Screen (0.010" Slots) (3.9 to 10.9')	
8								#1 Filter Sand (3 to 11')	
10	S-3	10 - 12	2.0/1.5	PID: ND			S-3A (10 to 11'): Olive, SILT & CLAY, little fine to coarse Sand, trace fine to coarse Gravel, trace Cobbles. Wet. TILL.		
12	R-1	12 - 19	7.0/4.0	PID: --ppmv		GRANITE	S-3B (11 to 12'): Slightly weathered, pink, GRANITE. R-1 (12 to 19'): Slightly to moderately weathered, pink, GRANITE. Majority of rock fragments exhibit apparent iron staining.	Silt Cap (10.9 to 11.1')	
14									
16									
18									
20	R-2	19 - 21	---	PID: --ppmv			R-2 (19 to 21'): Very slightly weathered, pink, GRANITE.	Bentonite Chips (11 to 21')	
22							Boring terminated at 21 feet. No refusal encountered.		
24							NOTES: 1. Soil samples were screened for volatile organic compounds (VOCs) using a MiniRAE 2000 Photoionization Detector (PID) with a 10.6 eV lamp, calibrated to a 100 parts per million by volume (ppmv) isobutylene-in-air standard using a response factor of 1.0. Results are presented in ppmv; the typical detection limit is 1 ppmv. ND indicates not detected. NA indicates not available. The PID measures relative levels of VOCs. Although PID screening cannot be used directly to quantify VOC concentrations or identify individual compounds, the results can serve as a relative indicator for the presence of VOCs. 2. Approximately 450 gallons of potable water introduced to overburden/bedrock formations during drilling activities. 3. The presence of granite bedrock is consistent with the Bedrock Geologic Map of New Hampshire (Lyons et al., 1997),		
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Project: Granite State Landfill
 Location: Dalton, NH
 Project No.: 1003.16

Log of Monitoring Well MW-13

Ground Elevation: 1188.16 ± feet
 TOC Elevation: 1191.11 ± feet
 PVC Elevation: 1190.91 ± feet
 Datum: NAVD 1988

Sanborn, Head & Associates, Inc.

Drilling Method: Geoprobe® 8140LS Track Rig

Sampling Method: Sonic 6"/4" Casing

Groundwater Readings

Date	Time	Depth to Water	Ref. Pt.	Depth of Casing	Depth of Hole	Stab. Time
07/18/18	15:34	7.02'	Top of PVC	Well Installed		<1 Hour
07/20/18	---	8.60'	Top of PVC	Well Installed		4 Days

Drilling Company: Glacier Drilling, LLC

Foreman: M. Aldo/M. Schock

Date Started: 07/18/18

Date Finished: 07/18/18

Logged By: M. Stein

Checked By: T. White

Depth (ft)	Sample Information				Stratum		Geologic Description	Well Diagram	Well Description
	Sample No.	Depth (ft)	Pen/Rec (ft)	Field Testing Data	Log	Description			
32							which describes Late Devonian granite of the New Hampshire Plutonic Suite in the vicinity of the site.		
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Project: Granite State Landfill
 Location: Dalton, NH
 Project No.: 1003.16

Log of Monitoring Well MW-14

Ground Elevation: 1152.37 ± feet
 TOC Elevation: 1155.42 ± feet
 PVC Elevation: 1155.2 ± feet
 Datum: NAVD 1988

Sanborn, Head & Associates, Inc.

Drilling Method: Geoprobe® 8140LS Track Rig

Sampling Method: Sonic 6"/4" Casing

Drilling Company: Glacier Drilling, LLC

Foreman: M. Aldo/M. Schock

Date Started: 07/19/18

Date Finished: 07/19/18

Logged By: M. Stein

Checked By: T. White

Groundwater Readings

Date	Time	Depth to Water	Ref. Pt.	Depth of Casing	Depth of Hole	Stab. Time
07/19/18	13:00	6.91'	Top of PVC	Well Installed		<1 Hour
07/20/18	---	6.88'	Top of PVC	Well Installed		4 Days

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Depth (ft)	Sample Information				Stratum		Geologic Description	Well Diagram	Well Description
	Sample No.	Depth (ft)	Pen/Rec (ft)	Field Testing Data	Log	Description			
-2									4" Dia. Protective Steel Casing with Locking Cap Set in Concrete (-3 to 2')
0	S-1	0 - 5	0.4/0.4	PID: ND		TOP SOIL	(0 to 0.4'): TOPSOIL.		2" Dia. Sch. 40 PVC Riser (-2.8 to 3.9')
2						FILL	S-1A (0.4 to 4'): Brown to dark brown, SILT grading to fine to coarse SAND, little fine to coarse Gravel, trace Cobbles. Moist. FILL.		Native Material (0.5 to 1')
4				PID: ND			S-1B (4 to 5'): Olive, Clayey SILT, little fine to coarse Sand, trace fine to coarse Gravel. Moist. TILL.		Bentonite Chips (1 to 3')
6	S-2	5 - 10	0.4/0.4	PID: ND		GLACIAL TILL	S-2A (5 to 9'): Olive gray, fine to coarse SAND, some Silt, little fine to coarse Gravel, trace Cobbles. Wet. TILL.		2" Dia. Sch. 40 PVC Well Screen (0.010" Slots) (3.9 to 8.9')
8							S-2B (9 to 10'): Slightly weathered, pink, GRANITE.		#1 Filter Sand (3 to 9')
10	R-1	10 - 20	0.8/0.6	PID: -- ppmv		GRANITE	R-1 (10 to 20'): Slightly to moderately weathered, pink, GRANITE. Several weathered zones noted by driller. Majority of rock fragments exhibit apparent iron staining.		Silt Cap (8.9 to 9.1')
12									
14									
16									
18									
20									
22									
24									
26									
28									
30									
							Boring terminated at 20 feet. No refusal encountered.		
							NOTES: 1. Soil samples were screened for volatile organic compounds (VOCs) using a MiniRAE 2000 Photoionization Detector (PID) with a 10.6 eV lamp, calibrated to a 100 parts per million by volume (ppmv) isobutylene-in-air standard using a response factor of 1.0. Results are presented in ppmv; the typical detection limit is 1 ppmv. ND indicates not detected. NA indicates not available. The PID measures relative levels of VOCs. Although PID screening cannot be used directly to quantify VOC concentrations or identify individual compounds, the results can serve as a relative indicator for the presence of VOCs. 2. Approximately 250 gallons of potable water introduced to overburden/bedrock formations during drilling activities. 3. The presence of granite bedrock is consistent with the Bedrock Geologic Map of New Hampshire (Lyons et al., 1997), which describes Late Devonian granite of the New Hampshire Plutonic Suite in the vicinity of the site.		



Project: Granite State Landfill
 Location: Dalton, NH
 Project No.: 1003.16

Log of Monitoring Well MW-18

Ground Elevation: 1320.78 ± feet
 TOC Elevation: 1323.79 ± feet
 PVC Elevation: 1323.53 ± feet
 Datum: NAVD 1988

Sanborn, Head & Associates, Inc.

Drilling Method: Geoprobe® 8140LS Track Rig

Sampling Method: Sonic 6"/4" Casing

Groundwater Readings

Date	Time	Depth to Water	Ref. Pt.	Depth of Casing	Depth of Hole	Stab. Time
10/04/18	09:50	11.3'	Ground Surface	Well Installed		<15 Minutes
10/05/18	06:36	13.02'	Top of PVC	Well Installed		<24 Hours

Drilling Company: Glacier Drilling, LLC

Foreman: M. Aldo/S. Taylor

Date Started: 10/04/18

Date Finished: 10/04/18

Logged By: M. Stein

Checked By: T. White

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Depth (ft)	Sample Information				Stratum		Geologic Description	Well Diagram	Well Description
	Sample No.	Depth (ft)	Pen/Rec (ft)	Field Testing Data	Log	Description			
-2									4" Dia. Protective Steel Casing with Locking Cap Set in Concrete (-3 to 2')
									2" Dia. Sch. 40 PVC Riser (-2.8 to 7.9')
0	S-1	0 - 3	3.0/ 2.0	PID: -- ppmv PID: 1 ppmv	---	0' TOPSOIL	S-1A (0 to 0.8'): Moist. TOPSOIL.		
2					---	0.8' SILTY SAND	S-1B (0.8 to 3'): Dark tan, fine to coarse SAND, some Silt, little fine Gravel. Moist.		#1 Sand (0.5 to 3')
4	S-2	3 - 8	5.0/ 5.0	PID: 1 ppmv	---	3' SAND & SILT	S-2 (3 to 8'): Dark tan, fine to coarse SAND and Silt, little fine to coarse Gravel, trace Cobble. Moist.		Bentonite Chips (3 to 6')
8	S-3	8 - 12	4.0/ 3.0	PID: 1 ppmv	---	8' COBBLES/ BOULDERS	S-3A (8 to 11'): Olive-tan, fine to medium SAND, some Silt, trace fine Gravel, trace Cobble, Highly broken Rock debris. Moist.		2" Dia. Sch. 40 PVC Well Screen (0.010" Slots) (7.9 to 12.9')
12	S-4	12 - 14	2.0/ 1.5	PID: 2 ppmv	---	11' GLACIAL TILL	S-3B (11 to 12'): Dark olive-tan, Clayey SILT, some fine to coarse Sand, little fine to coarse Gravel, trace Cobble. Very Moist to Wet. TILL. S-4A (12 to 13'): Brown, Clayey SILT to Clay & Silt, trace fine to medium Sand.		#1 Filter Sand (6 to 13')
14	R-1	14 - 24	10.0/ 9.0	PID: -- ppmv PID: -- ppmv	---	13' DIORITE	S-4B (13 to 14'): Fresh, black and white, phaneritic, DIORITE/GRANODIORITE. R-1 (14 to 24'): Fresh, black and white, phaneritic, DIORITE/GRANODIORITE.		Silt Cap (12.9 to 13.2')
18									Bentonite Chips (13 to 24')
20									
22									



Project: Granite State Landfill
 Location: Dalton, NH
 Project No.: 1003.16

Log of Monitoring Well MW-18

Ground Elevation: 1320.78 ± feet
 TOC Elevation: 1323.79 ± feet
 PVC Elevation: 1323.53 ± feet
 Datum: NAVD 1988

Sanborn, Head & Associates, Inc.

Drilling Method: Geoprobe® 8140LS Track Rig

Sampling Method: Sonic 6"/4" Casing

Groundwater Readings

Date	Time	Depth to Water	Ref. Pt.	Depth of Casing	Depth of Hole	Stab. Time
10/04/18	09:50	11.3'	Ground Surface	Well Installed		<15 Minutes
10/05/18	06:36	13.02'	Top of PVC	Well Installed		<24 Hours

Drilling Company: Glacier Drilling, LLC

Foreman: M. Aldo/S. Taylor

Date Started: 10/04/18

Date Finished: 10/04/18

Logged By: M. Stein

Checked By: T. White

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Depth (ft)	Sample Information				Stratum		Geologic Description	Well Diagram	Well Description
	Sample No.	Depth (ft)	Pen/Rec (ft)	Field Testing Data	Log	Description			
22						DIORITE			
24						-----24'-----	Boring terminated at 24 feet. No refusal encountered.		
26							NOTES: 1. Soil samples were screened for volatile organic compounds (VOCs) using a MiniRAE 2000 Photoionization Detector (PID) with a 10.6 eV lamp, calibrated to a 100 parts per million by volume (ppmv) isobutylene-in-air standard using a response factor of 1.0. Results are presented in ppmv; the typical detection limit is 1 ppmv. ND indicates not detected. NA indicates not available. The PID measures relative levels of VOCs. Although PID screening cannot be used directly to quantify VOC concentrations or identify individual compounds, the results can serve as a relative indicator for the presence of VOCs. 2. Approximately 200 gallons of potable water introduced to overburden/bedrock formations during drilling activities. 3. The presence of diorite/granodiorite bedrock is generally consistent with the Bedrock Geologic Map of New Hampshire (Lyons et al., 1997), which describes Late Ordovician granodiorite of the Oliverian Plutonic Suite in the vicinity of the site.		
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32									
34									
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38									
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42									
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46									



Project: Granite State Landfill
 Location: Dalton, NH
 Project No.: 1003.16

Log of Monitoring Well MW-19

Ground Elevation: 1317.16 ± feet
 TOC Elevation: 1320.29 ± feet
 PVC Elevation: 1320.01 ± feet
 Datum: NAVD 1988

Sanborn, Head & Associates, Inc.

Drilling Method: Geoprobe® 8140LS Track Rig

Sampling Method: Sonic 6"/4" Casing

Groundwater Readings

Date	Time	Depth to Water	Ref. Pt.	Depth of Casing	Depth of Hole	Stab. Time
10/05/18	13:33	18.49'	Top of PVC	Well Installed		<1 Hour
10/09/18	07:00	18.22'	Top of PVC	Well Installed		~3.5 Days

Drilling Company: Glacier Drilling, LLC

Foreman: M. Aldo

Date Started: 10/05/18

Date Finished: 10/05/18

Logged By: M. Stein

Checked By: T. White

Depth (ft)	Sample Information				Stratum		Geologic Description	Well Diagram	Well Description
	Sample No.	Depth (ft)	Pen/Rec (ft)	Field Testing Data	Log	Description			
-2									6" Dia. Protective Steel Casing with Locking Cap Set in Concrete (-3 to 2')
0						-----0'-----	(0 to 26'): Refer to log MW-19R for stratum and geologic descriptions.		2" Dia. Sch. 40 PVC Riser (-2.8 to 5.9')
2									Concrete Pad (0 to 0.5')
4									#1 Filter Sand (0.5 to 2')
6									Bentonite Chips (2 to 4')
8									2" Dia. Sch. 40 PVC Well Screen (0.010" Slots) (5.9 to 15.9')
10									#1 Filter Sand (4 to 16')
12									
14									
16									Silt Cap (15.9 to 16.1')
18									
20									
22									

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Project: Granite State Landfill
 Location: Dalton, NH
 Project No.: 1003.16

Log of Monitoring Well MW-19

Ground Elevation: 1317.16 ± feet
 TOC Elevation: 1320.29 ± feet
 PVC Elevation: 1320.01 ± feet
 Datum: NAVD 1988

Sanborn, Head & Associates, Inc.

Drilling Method: Geoprobe® 8140LS Track Rig

Sampling Method: Sonic 6"/4" Casing

Groundwater Readings

Date	Time	Depth to Water	Ref. Pt.	Depth of Casing	Depth of Hole	Stab. Time
10/05/18	13:33	18.49'	Top of PVC	Well Installed		<1 Hour
10/09/18	07:00	18.22'	Top of PVC	Well Installed		~3.5 Days

Drilling Company: Glacier Drilling, LLC

Foreman: M. Aldo

Date Started: 10/05/18

Date Finished: 10/05/18

Logged By: M. Stein

Checked By: T. White

Depth (ft)	Sample Information				Stratum		Geologic Description	Well Diagram	Well Description
	Sample No.	Depth (ft)	Pen/Rec (ft)	Field Testing Data	Log	Description			
22									
24									
26						-----26'-----	Boring terminated at 26 feet. No refusal encountered.		
28							NOTES: 1. Soil samples were screened for volatile organic compounds (VOCs) using a MiniRAE 2000 Photoionization Detector (PID) with a 10.6 eV lamp, calibrated to a 100 parts per million by volume (ppmv) isobutylene-in-air standard using a response factor of 1.0. 2. MW-19 and MW-19R well installations were completed in the same borehole.		
30									
32									
34									
36									
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Project: Granite State Landfill
Location: Dalton, NH
Project No.: 1003.16

Log of Monitoring Well MW-19R

Ground Elevation: 1317.16 ± feet
TOC Elevation: 1320.29 ± feet
PVC Elevation: 1320.01 ± feet
Datum: NAVD 1988

Sanborn, Head & Associates, Inc.

Drilling Method: Geoprobe® 8140LS Track Rig

Sampling Method: Sonic 6"/4" Casing

Groundwater Readings

Date	Time	Depth to Water	Ref. Pt.	Depth of Casing	Depth of Hole	Stab. Time
10/05/18	13:34	25.2'	Top of PVC	Well Installed		<1 Hour
10/09/18	07:02	24.34'	Top of PVC	Well Installed		~3.5 days

Drilling Company: Glacier Drilling, LLC

Foreman: M. Aldo

Date Started: 10/05/18

Date Finished: 10/05/18

Logged By: M. Stein

Checked By: T. White

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Depth (ft)	Sample Information				Stratum		Geologic Description	Well Diagram	Well Description
	Sample No.	Depth (ft)	Pen/Rec (ft)	Field Testing Data	Log	Description			
-2								6" Dia. Protective Steel Casing with Locking Cap Set in Concrete (-3 to 2')	
								2" Dia. Sch. 40 PVC Riser (-2.8 to 20.1')	
0	S-1	0 - 3	3.0/ 2.5	PID: -- ppmv PID: 2 ppmv	-----0'----- TOPSOIL -----0.6'-----	S-1A (0 to 0.6'): Moist. TOPSOIL.		Concrete Pad (0 to 0.5')	
2					SANDY SILT	S-1B (0.6 to 3'): Dark tan, SILT, some fine to coarse Sand, trace fine to coarse Gravel, trace Cobbles. Moist.		#1 Filter Sand (0.5 to 2')	
4	S-2	3 - 5	2.0/ 2.0	PID: 1 ppmv	-----3'-----	S-2 (3 to 5'): Grayish olive, fine to coarse SAND, some Silt, little fine to coarse Gravel, trace Cobbles. Moist.		Bentonite Chips (2 to 4')	
6	S-3	5 - 8	3.0/ 1.5	PID: 2 ppmv		S-3 (5 to 8'): Grayish olive, fine to coarse SAND, some Silt, little fine to coarse Gravel. Moist.			
8					SILTY SAND				
10	S-4	8 - 13	5.0/ 5.0	PID: 1 ppmv		S-4A (8 to 11.5'): Olive, fine to coarse SAND, some Silt, little fine to coarse Gravel. Moist.			
12					COBBLES				
14	S-5	13 - 16	3.0/ 2.0	PID: 3 ppmv	-----13'-----	S-5 (13 to 16'): Brown, SILT, some fine to coarse Sand, some fine to coarse Gravel, trace Cobbles. Moist.		#1 Filter Sand (4 to 16')	
16					SANDY GRAVELLY SILT				
18	R-1	16 - 23	7.0/ 5.0	PID: -- ppmv	-----16'-----	R-1 (16 to 23'): Very slightly weathered, pink, GRANITE. Numerous shallow to moderately dipping fractures exhibiting apparent iron staining.		Bentonite Pellets (16 to 19')	
20					GRANITE				
22								2" Dia. Sch. 40 PVC Well Screen (0.010" Slots) (20.1 to 24.1')	
								#1 Filter Sand (19 to	



Project: Granite State Landfill
 Location: Dalton, NH
 Project No.: 1003.16

Log of Monitoring Well MW-20

Ground Elevation: 1326.83 ± feet
 TOC Elevation: 1329.71 ± feet
 PVC Elevation: 1329.49 ± feet
 Datum: NAVD 1988

Sanborn, Head & Associates, Inc.

Drilling Method: Geoprobe® 8140LS Track Rig

Sampling Method: Sonic 6"/4" Casing

Groundwater Readings

Date	Time	Depth to Water	Ref. Pt.	Depth of Casing	Depth of Hole	Stab. Time
10/08/18	16:00	16.22'	Top of PVC	Well Installed		~1.5 Hours
10/09/18	07:10	15.65'	Top of PVC	Well Installed		~12 Hours

Drilling Company: Glacier Drilling, LLC

Foreman: M. Aldo

Date Started: 10/08/18

Date Finished: 10/08/18

Logged By: M. Stein/H. Caprood

Checked By: T. White

Depth (ft)	Sample Information				Stratum		Geologic Description	Well Diagram	Well Description
	Sample No.	Depth (ft)	Pen/Rec (ft)	Field Testing Data	Log	Description			
-2								6" Dia. Protective Steel Casing with Locking Cap Set in Concrete (-3 to 2')	
0						-----0'-----	(0 to 24'): Refer to log MW-20R for stratum and geologic descriptions.	2" Dia. Sch. 40 PVC Riser (-2.8 to 4')	
2								Concrete Pad (0 to 0.5')	
4								#1 Filter Sand (0.5 to 1')	
6								Bentonite Chips (1 to 3')	
8								2" Dia. Sch. 40 PVC Well Screen (0.010" Slots) (4 to 14')	
10								#1 Filter Sand (3 to 14')	
14								Silt Cap (14 to 14.3')	

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Project: Granite State Landfill
 Location: Dalton, NH
 Project No.: 1003.16

Log of Monitoring Well MW-20

Ground Elevation: 1326.83 ± feet
 TOC Elevation: 1329.71 ± feet
 PVC Elevation: 1329.49 ± feet
 Datum: NAVD 1988

Sanborn, Head & Associates, Inc.

Drilling Method: Geoprobe® 8140LS Track Rig

Sampling Method: Sonic 6"/4" Casing

Groundwater Readings

Date	Time	Depth to Water	Ref. Pt.	Depth of Casing	Depth of Hole	Stab. Time
10/08/18	16:00	16.22'	Top of PVC	Well Installed		~1.5 Hours
10/09/18	07:10	15.65'	Top of PVC	Well Installed		~12 Hours

Drilling Company: Glacier Drilling, LLC

Foreman: M. Aldo

Date Started: 10/08/18

Date Finished: 10/08/18

Logged By: M. Stein/H. Caprood

Checked By: T. White

Depth (ft)	Sample Information				Stratum		Geologic Description	Well Diagram	Well Description
	Sample No.	Depth (ft)	Pen/Rec (ft)	Field Testing Data	Log	Description			
22									
24						-----24'-----	Boring terminated at 24 feet. No refusal encountered.		
26							NOTES: 1. Soil samples were screened for volatile organic compounds (VOCs) using a MiniRAE 2000 Photoionization Detector (PID) with a 10.6 eV lamp, calibrated to a 100 parts per million by volume (ppmv) isobutylene-in-air standard using a response factor of 1.0. 2. MW-20 and MW-20R well installations were completed in the same borehole.		
28									
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32									
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Project: Granite State Landfill
Location: Dalton, NH
Project No.: 1003.16

Log of Monitoring Well MW-20R

Ground Elevation: 1326.83 ± feet
TOC Elevation: 1329.71 ± feet
PVC Elevation: 1329.49 ± feet
Datum: NAVD 1988

Sanborn, Head & Associates, Inc.

Drilling Method: Geoprobe® 8140LS Track Rig

Sampling Method: Sonic 6"/4" Casing

Groundwater Readings

Date	Time	Depth to Water	Ref. Pt.	Depth of Casing	Depth of Hole	Stab. Time
10/08/18	14:08	22.7'	Ground Surface	15'	23.5'	~15 Minutes
10/08/18	16:02	16.7'	Top of PVC	Well Installed		~1.5 Hours
10/09/18	07:12	16.66'	Top of PVC	Well Installed		~12 Hours

Drilling Company: Glacier Drilling, LLC

Foreman: M. Aldo

Date Started: 10/08/18

Date Finished: 10/08/18

Logged By: M. Stein/H. Caprood

Checked By: T. White

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Depth (ft)	Sample Information				Stratum		Geologic Description	Well Diagram	Well Description
	Sample No.	Depth (ft)	Pen/Rec (ft)	Field Testing Data	Log	Description			
-2								6" Dia. Protective Steel Casing with Locking Cap Set in Concrete (-3 to 2')	
								2" Dia. Sch. 40 PVC Riser (-2.8 to 18.4')	
0	S-1	0 - 5	5.0/4.5	PID: -- ppmv PID: 0.2 ppmv	---0'--- TOPSOIL ---0.5'---		S-1A (0 to 0.5'): Moist. TOPSOIL.	Concrete Pad (0 to 0.5')	
							S-1B (0.5 to 5'): Gray-olive, fine to coarse SAND and Silt, trace fine to coarse Gravel, trace Cobbles. Moist.	#1 Filter Sand (0.5 to 1')	
2								Bentonite Chips (1 to 3')	
4						SAND & SILT			
6	S-2	5 - 7	2.0/2.0	PID: 1.5 ppmv			S-2 (5 to 7'): Gray-olive, fine to coarse SAND and Silt, little fine to coarse Gravel, trace Cobbles. Moist.		
8	S-3	7 - 8	1.0/0.5	PID: -- ppmv	---7'---	BOULDER	S-3 (7 to 8'): BOULDER (Diorite/Granodiorite).		
8	S-4	8 - 10	2.0/1.5	PID: 0.3 ppmv	---8'---		S-4 (8 to 10'): Dark tan, fine to coarse SAND, some Silt, little fine to coarse Gravel, trace Cobbles. Moist.	#1 Filter Sand (3 to 14.3')	
10						SILTY SAND			
10	S-5	10 - 13	3.0/3.0	PID: 0.4 ppmv PID: 0.6 ppmv	---11'---		S-5A (10 to 11'): Brown, fine to coarse SAND, some Silt, little fine to medium Gravel, trace Cobbles. Moist.		
12						GLACIAL TILL	S-5B (11 to 13'): Olive-orange, Clayey SILT, little fine to coarse Sand, little fine to coarse Gravel. Moist. TILL.		
14	S-6	13 - 14	1.0/1.5	PID: 1 ppmv			S-6 (13 to 14'): Olive-gray, SILT & CLAY, little fine to coarse Sand, little fine to coarse Gravel. Wet. TILL.		
14	R-1	14 - 16	2.0/1.5	PID: -- ppmv	---14'---		R-1 (14 to 16'): Fresh, black and white, phaneritic, DIORITE/GRANODIORITE.		
16	R-2	16 - 24	8.0/7.0	PID: -- ppmv			R-2 (16 to 24'): Fresh, black and white, phaneritic, DIORITE/GRANODIORITE.	Bentonite Pellets (14.3 to 17')	
18						DIORITE			
20								2" Dia. Sch. 40 PVC Well Screen (0.010" Slots) (18.4 to 23.4')	
22								#1 Filter Sand (17 to 23.6')	



Project: Granite State Landfill
 Location: Dalton, NH
 Project No.: 1003.16

Log of Monitoring Well MW-20R

Ground Elevation: 1326.83 ± feet
 TOC Elevation: 1329.71 ± feet
 PVC Elevation: 1329.49 ± feet
 Datum: NAVD 1988

Sanborn, Head & Associates, Inc.

Drilling Method: Geoprobe® 8140LS Track Rig

Sampling Method: Sonic 6"/4" Casing

Groundwater Readings

Date	Time	Depth to Water	Ref. Pt.	Depth of Casing	Depth of Hole	Stab. Time
10/08/18	14:08	22.7'	Ground Surface	15'	23.5'	~15 Minutes
10/08/18	16:02	16.7'	Top of PVC	Well Installed		~1.5 Hours
10/09/18	07:12	16.66'	Top of PVC	Well Installed		~12 Hours

Drilling Company: Glacier Drilling, LLC

Foreman: M. Aldo

Date Started: 10/08/18

Date Finished: 10/08/18

Logged By: M. Stein/H. Caprood

Checked By: T. White

Depth (ft)	Sample Information				Stratum		Geologic Description	Well Diagram	Well Description
	Sample No.	Depth (ft)	Pen/Rec (ft)	Field Testing Data	Log	Description			
22						DIORITE			
24						-----24'-----	Boring terminated at 24 feet. No refusal encountered.		Silt Cap (23.4 to 23.6') Formation Material (23.6 to 24')
26							NOTES: 1. Soil samples were screened for volatile organic compounds (VOCs) using a MiniRAE 2000 Photoionization Detector (PID) with a 10.6 eV lamp, calibrated to a 100 parts per million by volume (ppmv) isobutylene-in-air standard using a response factor of 1.0. Results are presented in ppmv; the typical detection limit is 1 ppmv. ND indicates not detected. NA indicates not available. The PID measures relative levels of VOCs. Although PID screening cannot be used directly to quantify VOC concentrations or identify individual compounds, the results can serve as a relative indicator for the presence of VOCs. 2. Approximately 550 gallons of potable water introduced to overburden/bedrock formations during drilling activities. 3. MW-20 and MW-20R well installations were completed in the same borehole. 4. 3. The presence of diorite/granodiorite bedrock is generally consistent with the Bedrock Geologic Map of New Hampshire (Lyons et al., 1997), which describes Late Ordovician granodiorite of the Oliverian Plutonic Suite in the vicinity of the site.		
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Project: Granite State Landfill
 Location: Dalton, NH
 Project No.: 1003.16

Log of Monitoring Well MW-23

Ground Elevation: 1220.61 ± feet
 TOC Elevation: 1223.6 ± feet
 PVC Elevation: 1223.37 ± feet
 Datum: NAVD 1988

Sanborn, Head & Associates, Inc.

Drilling Method: Geoprobe® 8140LS Track Rig

Sampling Method: Sonic 6"/4" Casing

Drilling Company: Glacier Drilling, LLC

Foreman: M. Aldo

Date Started: 11/19/18

Date Finished: 11/19/18

Logged By: M. Stein

Checked By: T. White

Groundwater Readings

Date	Time	Depth to Water	Ref. Pt.	Depth of Casing	Depth of Hole	Stab. Time
11/19/18	13:43	10.90'	Top of PVC	Well Installed		<1 hour
11/20/18	07:19	10.94'	Top of PVC	Well Installed		<1 day

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Depth (ft)	Sample Information				Stratum		Geologic Description	Well Diagram	Well Description
	Sample No.	Depth (ft)	Pen/Rec (ft)	Field Testing Data	Log	Description			
-2								4" Dia. Protective Steel Casing with Locking Cap Set in Concrete (-3 to 2')	
0	S-1	0 - 5	5.0/5.0	PID: ND PID: ND		TOPSOIL	S-1A (0 to 0.6'): Dark brown, Moist. TOPSOIL.	2" Dia. Sch. 40 PVC Riser (-2.8 to 4.1')	
2						SAND	S-1B (0.6 to 4.3'): Orangish brown, fine to medium SAND, little fine to coarse Gravel, little Silt. Moist.	Native Material (0.5 to 1')	
4								Bentonite Chips (1 to 3')	
6	S-2	5 - 9	4.0/4.0	PID: -- ppmv PID: 1 ppmv		SILT & SAND	S-1C (4.3 to 5'): Olive, fine SAND and Silt, trace fine Gravel. Moist. S-2A (5 to 6.5'): Olive, fine SAND and Silt, trace fine Gravel. Moist.		
8						TILL	S-2B (6.5 to 9'): Olive, SILT, with fine to coarse SAND partings, little fine to coarse Gravel, trace Cobble. Moist. TILL.	#1 Filter Sand (3 to 9.5') 2" Dia. Sch. 40 PVC Well Screen (0.010" Slots) (4.1 to 9.1')	
10	R1	9 - 12	3.0/1.0	PID: -- ppmv			R-1 (9 to 12'): Fresh, pink, GRANITE.	Silt Cap (9.1 to 9.3')	
12	R2	12 - 20	8.0/7.0	PID: -- ppmv		GRANITE	R-2 (12 to 20'): Fresh to very slightly weathered, pink, GRANITE.	Bentonite Chips (9.5 to 20')	
20							Boring terminated at 20 feet. No refusal encountered.		
NOTES: 1. Soil samples were screened for volatile organic compounds									



Project: Granite State Landfill
Location: Dalton, NH
Project No.: 1003.16

Log of Monitoring Well MW-23

Ground Elevation: 1220.61 ± feet
TOC Elevation: 1223.6 ± feet
PVC Elevation: 1223.37 ± feet
Datum: NAVD 1988

Sanborn, Head & Associates, Inc.

Drilling Method: Geoprobe® 8140LS Track Rig

Sampling Method: Sonic 6"/4" Casing

Groundwater Readings

Date	Time	Depth to Water	Ref. Pt.	Depth of Casing	Depth of Hole	Stab. Time
11/19/18	13:43	10.90'	Top of PVC	Well Installed		<1 hour
11/20/18	07:19	10.94'	Top of PVC	Well Installed		<1 day

Drilling Company: Glacier Drilling, LLC

Foreman: M. Aldo

Date Started: 11/19/18

Date Finished: 11/19/18

Logged By: M. Stein

Checked By: T. White

Depth (ft)	Sample Information				Stratum		Geologic Description	Well Diagram	Well Description
	Sample No.	Depth (ft)	Pen/Rec (ft)	Field Testing Data	Log	Description			
22							<p>(VOCs) using a MiniRAE 2000 Photoionization Detector (PID) with a 10.6 eV lamp, calibrated to a 100 parts per million by volume (ppmv) isobutylene-in-air standard using a response factor of 1.0. Results are presented in ppmv; the typical detection limit is 1 ppmv. ND indicates not detected. NA indicates not available. The PID measures relative levels of VOCs. Although PID screening cannot be used directly to quantify VOC concentrations or identify individual compounds, the results can serve as a relative indicator for the presence of VOCs.</p> <p>2. Approximately 100 gallons of potable water introduced to overburden/bedrock formations during drilling activities.</p> <p>3. The presence of granite bedrock is consistent with the Bedrock Geologic Map of New Hampshire (Lyons et al., 1997), which describes Late Devonian granite of the New Hampshire Plutonic Suite in the vicinity of the site.</p>		
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Project: Granite State Landfill
Location: Dalton, NH
Project No.: 1003.16

Log of Monitoring Well MW-24

Ground Elevation: 1227.77 ± feet
TOC Elevation: 1230.81 ± feet
PVC Elevation: 1230.56 ± feet
Datum: NAVD 1988

Sanborn, Head & Associates, Inc.

Drilling Method: Geoprobe® 8140LS Track Rig

Sampling Method: Sonic 6"/4" Casing

Groundwater Readings

Date	Time	Depth to Water	Ref. Pt.	Depth of Casing	Depth of Hole	Stab. Time
11/20/18	09:46	11.7'	Top of Casing	Well Installed		<1 hour

Drilling Company: Glacier Drilling, LLC

Foreman: M. Aldo

Date Started: 11/19/18

Date Finished: 11/20/18

Logged By: M. Stein

Checked By: T. White

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Depth (ft)	Sample Information				Stratum		Geologic Description	Well Diagram	Well Description
	Sample No.	Depth (ft)	Pen/Rec (ft)	Field Testing Data	Log	Description			
-2								4" Dia. Protective Steel Casing with Locking Cap Set in Concrete (-3 to 2')	
0	S-1	0 - 4.5	4.5/4.5	PID: -- ppmv PID: 2 ppmv	TOPSOIL	S-1A (0 to 0.4'): Dark brown, Moist. TOPSOIL.		2" Dia. Sch. 40 PVC Riser (-2.8 to 5.7')	
2				PID: 2 ppmv	SAND	S-1B (0.4 to 1.5'): Orangish brown, fine to medium SAND, little Silt, trace fine to coarse Gravel. Moist.		Native Material (0.5 to 1')	
4					TILL	S-1C (1.5 to 4.5'): Olive, SILT, some fine to coarse Sand, trace fine to coarse Gravel. Moist. TILL.		Bentonite Chips (1 to 4')	
6	S-2	4.5 - 8	3.5/3.5	PID: 1 ppmv PID: -- ppmv	COBBLE	S-2A (4.5 to 5'): COBBLE.			
8					TILL	S-2B (5 to 8'): Olive, SILT, some fine to coarse Sand, little fine to coarse Gravel, trace Cobble. Moist. TILL.		2" Dia. Sch. 40 PVC Well Screen (0.010" Slots) (5.7 to 15.7')	
10	S-3	8 - 12	4.0/3.5	PID: 1 ppmv	TILL	S-3 (8 to 12'): Olive, SILT and fine to medium Sand, grading to SILT & CLAY, fine to coarse Sand and fine to coarse Gravel, little Silt layers (approximately 0.8 foot thick) present at top of recovery and (0.3 foot thick) at center of recovery. Moist. TILL.		#1 Filter Sand (4 to 16.5')	
12	S-4	12 - 15	--	PID: -- ppmv	BOULDER	S-4A (12 to 14'): BOULDER.			
14				PID: -- ppmv	TILL	S-4B (14 to 15'): Dark olive, CLAY & SILT, trace fine to coarse Sand, trace fine Gravel. Moist. TILL.			
16	S-5	15 - 16	1.0/0.5	PID: -- ppmv	TILL	S-5 (15 to 16'): Dark olive, CLAY & SILT, trace fine to coarse Sand, trace fine Gravel. very moist/wet. TILL.		Silt Cap (15.7 to 15.9')	
18	R1	16 - 17	1.0/1.0	PID: -- ppmv	GRANITE	R-1 (16 to 17'): Very slightly weathered to fresh, pink, GRANITE.			
20	R2	17 - 26	9.0/8.0	PID: -- ppmv	GRANITE	R-2 (17 to 26'): Very slightly weathered to fresh, pink, GRANITE.			
22								Bentonite Chips (16.5 to 26')	



Project: Granite State Landfill
 Location: Dalton, NH
 Project No.: 1003.16

Log of Monitoring Well MW-24

Ground Elevation: 1227.77 ± feet
 TOC Elevation: 1230.81 ± feet
 PVC Elevation: 1230.56 ± feet
 Datum: NAVD 1988

Sanborn, Head & Associates, Inc.

Drilling Method: Geoprobe® 8140LS Track Rig

Sampling Method: Sonic 6"/4" Casing

Groundwater Readings

Date	Time	Depth to Water	Ref. Pt.	Depth of Casing	Depth of Hole	Stab. Time
11/20/18	09:46	11.7'	Top of Casing	Well Installed		<1 hour

Drilling Company: Glacier Drilling, LLC

Foreman: M. Aldo

Date Started: 11/19/18

Date Finished: 11/20/18

Logged By: M. Stein

Checked By: T. White

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Depth (ft)	Sample Information				Stratum		Geologic Description	Well Diagram	Well Description
	Sample No.	Depth (ft)	Pen/Rec (ft)	Field Testing Data	Log	Description			
22					+				
24					+	GRANITE			
26					+	-----26'-----	Boring terminated at 26 feet. No refusal encountered.		
28							NOTES: 1. Soil samples were screened for volatile organic compounds (VOCs) using a MiniRAE 2000 Photoionization Detector (PID) with a 10.6 eV lamp, calibrated to a 100 parts per million by volume (ppmv) isobutylene-in-air standard using a response factor of 1.0. Results are presented in ppmv; the typical detection limit is 1 ppmv. ND indicates not detected. NA indicates not available. The PID measures relative levels of VOCs. Although PID screening cannot be used directly to quantify VOC concentrations or identify individual compounds, the results can serve as a relative indicator for the presence of VOCs. 2. Approximately 200 gallons of potable water introduced to overburden/bedrock formations during drilling activities. 3. The presence of granite bedrock is consistent with the Bedrock Geologic Map of New Hampshire (Lyons et al., 1997), which describes Late Devonian granite of the New Hampshire Plutonic Suite in the vicinity of the site.		
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46									



Project: Granite State Landfill
Location: Dalton, NH
Project No.: 1003.16

Log of Monitoring Well MW-25

Ground Elevation: 1298.73 ± feet
TOC Elevation: 1301.63 ± feet
PVC Elevation: 1301.36 ± feet
Datum: NAVD 1988

Location:
N 675880.0066
E 977961.5979

Sanborn, Head & Associates, Inc.

Drilling Method: Geoprobe® 8140LS Track Rig

Sampling Method: Sonic 6/4" Casing

Drilling Company: Glacier Drilling, LLC

Foreman: M. Aldo/M. Schoch

Date Started: 09/23/19

Date Finished: 09/24/19

Logged By: M. Stein

Checked By: T. White

Groundwater Readings

Date	Time	Depth to Water	Ref. Pt.	Depth of Casing	Depth of Hole	Stab. Time
09/23/19	14:45	6.7'	Ground Surface	Open	9'	5 Minutes
09/24/19	07:48	6.4'	Ground Surface	9.5'	19.5'	<24 Hours
09/24/19	09:17	9.02'	Top of PVC	Well Installed		<0.5 Hours
09/27/19	07:46	6.88'	Top of PVC	Well Installed		~3 Days

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Depth (ft)	Sample Information				Stratum		Geologic Description	Well Diagram	Well Description
	Sample No.	Depth (ft)	Pen/Rec (ft)	Field Testing Data	Log	Description			
-2								4" Dia. Protective Steel Casing with Locking Cap Set in Concrete (-3 to 2')	
0	S-1	0 - 4	4.0/4.0		----	TOPSOIL	S-1A (0 to 1.1'): TOPSOIL.	2" Dia. Sch. 40 PVC Riser (-2.7 to 4.4')	
2				PID: 6 ppmv	----	SANDY SILT	S-1B (1.1 to 2.6'): Orangish brown, SILT, some fine to coarse Sand, very few Rootlets. Moist.	Native Material (0.5 to 1')	
4				PID: 8 ppmv	----	SAND & SILT	S-1C (2.6 to 4'): Gray, fine to coarse SAND and Silt, little fine to medium Gravel. Moist.	Bentonite Chips (1 to 3')	
6	S-2	5 - 9	5.0/4.5	PID: 6 ppmv	----	COBBLE	S-2 (5 to 9'): Olive, fine to coarse SAND, some Silt, trace fine to coarse Gravel, grading into olive/tan, SILT to Clayey Silt, some fine Sand, trace fine to coarse Gravel. Moist to wet.	2" Dia. Sch. 40 PVC Well Screen (0.010" Slots) (4.4 to 9.4')	
8					----	GLACIAL TILL		#2 Filter Sand (3 to 10')	
10	S-3 R-1	9 - 9.5 9.5 - 19.5	0.5/0.5 10.0/7.0	PID: 8 ppmv	----	SILTY SAND	S-3 (9 to 9.5'): Olive, fine to coarse SAND, some Silt, little fine to coarse Gravel. Wet.	Conical Silt Cap (9.4 to 9.6')	
12					----	GRANITE	R-1 (9.5 to 19.5'): Fresh to very slightly weathered, pink, GRANITE.		
14					----			Bentonite Chips (10 to 19.5')	
16					----				
18					----				
20					----		Boring terminated at 19.5 feet. No refusal encountered.		
22							NOTES: 1. Soil samples were screened for volatile organic compounds (VOCs) using a MiniRAE 2000 Photoionization Detector (PID)		



Project: Granite State Landfill
Location: Dalton, NH
Project No.: 1003.16

Log of Monitoring Well MW-25

Ground Elevation: 1298.73 ± feet
TOC Elevation: 1301.63 ± feet
PVC Elevation: 1301.36 ± feet
Datum: NAVD 1988

Location:
N 675880.0066
E 977961.5979

Sanborn, Head & Associates, Inc.

Drilling Method: Geoprobe® 8140LS Track Rig

Sampling Method: Sonic 6/4" Casing

Drilling Company: Glacier Drilling, LLC

Foreman: M. Aldo/M. Schoch

Date Started: 09/23/19

Date Finished: 09/24/19

Logged By: M. Stein

Checked By: T. White

Groundwater Readings

Date	Time	Depth to Water	Ref. Pt.	Depth of Casing	Depth of Hole	Stab. Time
09/23/19	14:45	6.7'	Ground Surface	Open	9'	5 Minutes
09/24/19	07:48	6.4'	Ground Surface	9.5'	19.5'	<24 Hours
09/24/19	09:17	9.02'	Top of PVC	Well Installed		<0.5 Hours
09/27/19	07:46	6.88'	Top of PVC	Well Installed		~3 Days

BORING LOG C:\USERS\MRUSSELL\DESKTOP\1003.16 LOGS.GPJ 2017 SANBORN HEAD V1.GLB 2017 SANBORN HEAD V1.GDT 11/30/20

Depth (ft)	Sample Information				Stratum		Geologic Description	Well Diagram	Well Description
	Sample No.	Depth (ft)	Pen/Rec (ft)	Field Testing Data	Log	Description			
22							<p>with a 10.6 eV lamp, calibrated to a 100 parts per million by volume (ppmv) isobutylene-in-air standard using a response factor of 1.0. Results are presented in ppmv; the typical detection limit is 1 ppmv. ND indicates not detected. NA indicates not available. The PID measures relative levels of VOCs. Although PID screening cannot be used directly to quantify VOC concentrations or identify individual compounds, the results can serve as a relative indicator for the presence of VOCs.</p> <p>2. Approximately 300 gallons used during bedrock drilling.</p> <p>3. The presence of granite bedrock is consistent with the Bedrock Geologic Map of New Hampshire (Lyons et al., 1997), which describes Late Devonian granite of the New Hampshire Plutonic Suite in the vicinity of the site.</p>		
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Project: Granite State Landfill
 Location: Dalton, NH
 Project No.: 1003.16

Log of Monitoring Well MW-27

Ground Elevation: 1341.74 ± feet
 TOC Elevation: 1344.61 ± feet
 PVC Elevation: 1344.39 ± feet
 Datum: NAVD 1988

Location:
 N 674830.5176
 E 978741.8666

Sanborn, Head & Associates, Inc.

Drilling Method: Geoprobe® 8140LS Track Rig

Sampling Method: Sonic 6/4" Casing

Drilling Company: Glacier Drilling, LLC

Foreman: M. Aldo/M. Schoch

Date Started: 09/25/19

Date Finished: 09/26/19

Logged By: M. Stein

Checked By: T. White

Groundwater Readings

Date	Time	Depth to Water	Ref. Pt.	Depth of Casing	Depth of Hole	Stab. Time
09/26/19	07:16	14.5'	Ground Surface	14'	34'	<24 Hours
09/26/19	09:18	Dry	Top of PVC	Well Installed		<1 Hour

Depth (ft)	Sample Information				Stratum		Geologic Description	Well Diagram	Well Description
	Sample No.	Depth (ft)	Pen/Rec (ft)	Field Testing Data	Log	Description			
-2									6" Dia. Protective Steel Casing with Locking Cap Set in Concrete (-3 to 2')
0						-----0'-----	(0 to 34'): Refer to log MW-27R for stratum and geologic descriptions.		2" Dia. Sch. 40 PVC Riser (-2.7 to 3.8')
2									Native Material (0.5 to 1')
4									Bentonite Chips (1 to 3')
6									2" Dia. Sch. 40 PVC Well Screen (0.010" Slots) (3.8 to 13.8')
8									#2 Filter Sand (3 to 14.5')
10									
12									
14									Conical Silt Cap (13.8 to 14')
16									
18									
20									
22									

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Project: Granite State Landfill
 Location: Dalton, NH
 Project No.: 1003.16

Log of Monitoring Well MW-27

Ground Elevation: 1341.74 ± feet
 TOC Elevation: 1344.61 ± feet
 PVC Elevation: 1344.39 ± feet
 Datum: NAVD 1988

Location:
 N 674830.5176
 E 978741.8666

Sanborn, Head & Associates, Inc.

Drilling Method: Geoprobe® 8140LS Track Rig

Sampling Method: Sonic 6/4" Casing

Groundwater Readings

Date	Time	Depth to Water	Ref. Pt.	Depth of Casing	Depth of Hole	Stab. Time
09/26/19	07:16	14.5'	Ground Surface	14'	34'	<24 Hours
09/26/19	09:18	Dry	Top of PVC	Well Installed		<1 Hour

Drilling Company: Glacier Drilling, LLC

Foreman: M. Aldo/M. Schoch

Date Started: 09/25/19

Date Finished: 09/26/19

Logged By: M. Stein

Checked By: T. White

BORING LOG C:\USERS\MRUSSELL\DESKTOP\1003.16 LOGS.GPJ 2017 SANBORN HEAD V1.GLB 2017 SANBORN HEAD V1.GDT 11/30/20

Depth (ft)	Sample Information				Stratum		Geologic Description	Well Diagram	Well Description
	Sample No.	Depth (ft)	Pen/Rec (ft)	Field Testing Data	Log	Description			
22									
24									
26									
28									
30									
32									
34						-----34'-----	Boring terminated at 34 feet. No refusal encountered.		
36							NOTES: 1. Soil samples were screened for volatile organic compounds (VOCs) using a MiniRAE 2000 Photoionization Detector (PID) with a 10.6 eV lamp, calibrated to a 100 parts per million by volume (ppmv) isobutylene-in-air standard using a response factor of 1.0. Results are presented in ppmv; the typical detection limit is 1 ppmv. ND indicates not detected. NA indicates not available. The PID measures relative levels of VOCs. Although PID screening cannot be used directly to quantify VOC concentrations or identify individual compounds, the results can serve as a relative indicator for the presence of VOCs. 2. Approximately 1,550 gallons used during bedrock drilling. 3. MW-27 and MW-27R well installations were completed in the same borehole.		
38									
40									
42									
44									
46									



Project: Granite State Landfill
Location: Dalton, NH
Project No.: 1003.16

Log of Monitoring Well MW-27R

Ground Elevation: 1341.74 ± feet
TOC Elevation: 1344.61 ± feet
PVC Elevation: 1344.41 ± feet
Datum: NAVD 1988

Location:
 N 674830.5066
 E 978741.8777

Sanborn, Head & Associates, Inc.

Drilling Method: Geoprobe® 8140LS Track Rig

Sampling Method: Sonic 6/4" Casing

Groundwater Readings

Date	Time	Depth to Water	Ref. Pt.	Depth of Casing	Depth of Hole	Stab. Time
09/26/19	07:16	14.5'	Ground Surface	14'	34'	<24 Hours
09/26/19	09:18	17.11'	Top of PVC	Well Installed		<1 Hour

Drilling Company: Glacier Drilling, LLC

Foreman: M. Aldo/M. Schoch

Date Started: 09/25/19

Date Finished: 09/26/19

Logged By: M. Stein

Checked By: T. White

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Depth (ft)	Sample Information				Stratum		Geologic Description	Well Diagram	Well Description
	Sample No.	Depth (ft)	Pen/Rec (ft)	Field Testing Data	Log	Description			
-2									6" Dia. Protective Steel Casing with Locking Cap Set in Concrete (-3 to 2')
0	S-1	0 - 5	5.0/5.0	PID: 1 ppmv	TOPSOIL	S-1A (0 to 1.1'): TOPSOIL.			2" Dia. Sch. 40 PVC Riser (-2.7 to 18.2')
2						S-1B (1.1 to 5'): Olive/tan, SILT, some fine to coarse Sand, trace fine to coarse Gravel. Moist.			Native Material (0.5 to 1')
4									Bentonite Chips (1 to 3')
6	S-2	5 - 8	3.0/3.0	PID: 2 ppmv	SANDY SILT	S-2 (5 to 8'): Olive/tan, SILT, some fine to medium Sand, trace fine to coarse Gravel. Moist.			
8	S-3	8 - 13	5.0/3.5	PID: 1 ppmv		S-3 (8 to 13'): Olive/brown, fine SAND, little Silt, trace fine to coarse Gravel. Moist.			
10					COBBLES				
12					SAND				
14	S-4	13 - 16	3.0/3.0	PID: 2 ppmv	SAND & GRAVEL	S-4A (13 to 14'): Brown, fine to coarse SAND and fine to coarse Gravel, little Silt. Moist.			
16						S-4B (14 to 16'): Tan, highly broken bedrock.			
18	R-1	16 - 25	9.0/9.0	PID: -- ppmv	Diorite	R-1 (16 to 25'): Fresh to very slightly weathered, DIORITE, fractures with redoximorphic features near top of rock. Layers of dark gray, very hard, Metabasalt from 22 to 25 feet.			Bentonite Chips (14.5 to 17')
20									
22									2" Dia. Sch. 40 PVC Well Screen (0.010" Slots) (18.2 to 33.2')



Project: Granite State Landfill
 Location: Dalton, NH
 Project No.: 1003.16

Log of Monitoring Well MW-27R

Ground Elevation: 1341.74 ± feet
 TOC Elevation: 1344.61 ± feet
 PVC Elevation: 1344.41 ± feet
 Datum: NAVD 1988

Location:
 N 674830.5066
 E 978741.8777

Sanborn, Head & Associates, Inc.

Drilling Method: Geoprobe® 8140LS Track Rig

Sampling Method: Sonic 6/4" Casing

Groundwater Readings

Date	Time	Depth to Water	Ref. Pt.	Depth of Casing	Depth of Hole	Stab. Time
09/26/19	07:16	14.5'	Ground Surface	14'	34'	<24 Hours
09/26/19	09:18	17.11'	Top of PVC	Well Installed		<1 Hour

Drilling Company: Glacier Drilling, LLC

Foreman: M. Aldo/M. Schoch

Date Started: 09/25/19

Date Finished: 09/26/19

Logged By: M. Stein

Checked By: T. White

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Depth (ft)	Sample Information				Stratum		Geologic Description	Well Diagram	Well Description
	Sample No.	Depth (ft)	Pen/Rec (ft)	Field Testing Data	Log	Description			
22									
24						Diorite			
26	R-2	25 - 30	5.0/5.0	PID: -- ppmv		-----25'-----	R-2 (25 to 30'): Fresh, dark gray, highly fractured Metabasalt.		#2 Filter Sand (17 to 33.4')
30	R-3	30 - 34	4.0/4.0	PID: -- ppmv		Metabasalt	R-3 (30 to 34'): Fresh, Metabasalt.		
34						-----34'-----	Boring terminated at 34 feet. No refusal encountered.		Conical Silt Cap (33.2 to 33.4') Formation Material (33.4 to 34')
36							NOTES: 1. Soil samples were screened for volatile organic compounds (VOCs) using a MiniRAE 2000 Photoionization Detector (PID) with a 10.6 eV lamp, calibrated to a 100 parts per million by volume (ppmv) isobutylene-in-air standard using a response factor of 1.0. Results are presented in ppmv; the typical detection limit is 1 ppmv. ND indicates not detected. NA indicates not available. The PID measures relative levels of VOCs. Although PID screening cannot be used directly to quantify VOC concentrations or identify individual compounds, the results can serve as a relative indicator for the presence of VOCs. 2. Approximately 1,550 gallons used during bedrock drilling. 3. MW-27 and MW-27R well installations were completed in the same borehole. 4. The presence of diorite/ granodiorite and metabasalt bedrock is generally consistent with the Bedrock Geologic Map of New Hampshire (Lyons et al., 1997), which described Late Ordovician Plutonic Suite and Upper and Middle Orodvician metabasalt of the Ammonoosuc Volcanics in the vicinity of the site.		
38									
40									
42									
44									
46									



Project: Granite State Landfill
 Location: Dalton, NH
 Project No.: 1003.20

Log of Monitoring Well MW-35

Ground Elevation: 1155.56 ± feet
 TOC Elevation: 1158.46 ± feet
 PVC Elevation: 1158.21 ± feet
 Datum: NAVD 1988

Sanborn, Head & Associates, Inc.

Drilling Method: Geoprobe® 8150 LS Track Rig

Sampling Method: Sonic 6" / 4" Casing

Groundwater Readings

Date	Time	Depth to Water	Ref. Pt.	Depth of Casing	Depth of Hole	Stab. Time
07/15/21	11:29	Dry	Top of PVC	Well Installed	Well Installed	~15 Minutes

Drilling Company: Glacier Drilling, LLC

Foreman: M. Schock

Date Started: 07/14/21

Date Finished: 07/15/21

Logged By: P. Pryor

Checked By: T. White

Depth (ft)	Sample Information				Stratum		Geologic Description	Well Diagram	Well Description
	Sample No.	Depth (ft)	Pen/Rec (ft)	Field Testing Data	Log	Description			
-2									6" Dia. Protective Steel Casing with Locking Standpipe set in Concrete (-3 to 2')
0						-----0'-----	(0 to 35'): Refer to log MW-35R for stratum and geologic descriptions.		Concrete Pad (0 to 0.5') Native Soil (0.5 to 1')
2									Bentonite Chips (1 to 2.8')
4									2" Dia. Sch. 40 PVC Well Screen (0.010" Slots) (2.9 to 7.9')
6									#1 Filter Sand (2.8 to 8.2')
8									Silt Cap (7.9 to 8.2')
10									
12									
14									
16									
18									
20									
22									

BORING LOG P:\1000S\1003.20\WORKLOGS\1003.20.GPJ 2017 SANBORN HEAD V1.GLB 2017 SANBORN HEAD V1.GDT 10/26/21



Project: Granite State Landfill
 Location: Dalton, NH
 Project No.: 1003.20

Log of Monitoring Well MW-35

Ground Elevation: 1155.56 ± feet
 TOC Elevation: 1158.46 ± feet
 PVC Elevation: 1158.21 ± feet
 Datum: NAVD 1988

Sanborn, Head & Associates, Inc.

Drilling Method: Geoprobe® 8150 LS Track Rig

Sampling Method: Sonic 6" / 4" Casing

Groundwater Readings

Date	Time	Depth to Water	Ref. Pt.	Depth of Casing	Depth of Hole	Stab. Time
07/15/21	11:29	Dry	Top of PVC	Well Installed	Well Installed	~15 Minutes

Drilling Company: Glacier Drilling, LLC

Foreman: M. Schock

Date Started: 07/14/21

Date Finished: 07/15/21

Logged By: P. Pryor

Checked By: T. White

Depth (ft)	Sample Information				Stratum		Geologic Description	Well Diagram	Well Description
	Sample No.	Depth (ft)	Pen/Rec (ft)	Field Testing Data	Log	Description			
24									
26									
28									
30									
32									
34									
35						-----35'-----	Boring terminated at 35 feet. No refusal encountered.		
36							NOTES: 1. Soil samples were screened for volatile organic compounds (VOCs) using a MiniRAE 3000 Photoionization Detector (PID) with a 10.6 eV lamp, calibrated to a 100 parts per million by volume (ppmv) isobutylene-in-air standard using a response factor of 1.0. Results are presented in ppmv; the typical detection limit is 1 ppmv. ND indicates not detected. NA indicates not available. The PID measures relative levels of VOCs. Although PID screening cannot be used directly to quantify VOC concentrations or identify individual compounds, the results can serve as a relative indicator for the presence of VOCs. 2. Approximately 325 gallons of potable water used during bedrock drilling. 3. MW-35 and MW-35R well installations were completed in the same borehole.		
38									
40									
42									
44									
46									
48									

BORING LOG P:\1000S\1003.20\WORK\LOGS\1003.20.GPJ 2017 SANBORN HEAD V1.GLB 2017 SANBORN HEAD V1.GDT 10/26/21



Project: Granite State Landfill
 Location: Dalton, NH
 Project No.: 1003.20

Log of Monitoring Well MW-35R

Ground Elevation: 1155.56 ± feet
 TOC Elevation: 1158.46 ± feet
 PVC Elevation: 1158.22 ± feet
 Datum: NAVD 1988

Sanborn, Head & Associates, Inc.

Drilling Method: Geoprobe® 8150 LS Track Rig

Sampling Method: Sonic 6"¼" Casing

Groundwater Readings

Date	Time	Depth to Water	Ref. Pt.	Depth of Casing	Depth of Hole	Stab. Time
07/15/21	07:30	22.72'	Ground Surface	20'	26.3'	15 Hours
07/15/21	11:30	28.76'	Top of PVC	Well Installed	Well Installed	<15 Minutes

Drilling Company: Glacier Drilling, LLC

Foreman: M. Schock

Date Started: 07/14/21

Date Finished: 07/15/21

Logged By: P. Pryor

Checked By: T. White

BORING LOG P:\1000S\1003.20\WORK\LOGS\1003.20.GPJ 2017 SANBORN HEAD V1.GLB 2017 SANBORN HEAD V1.GDT 10/26/21

Depth (ft)	Sample Information				Stratum		Geologic Description	Well Diagram	Well Description
	Sample No.	Depth (ft)	Pen/Rec (ft)	Field Testing Data	Log	Description			
-2								6" Dia. Protective Steel Casing with Locking Standpipe set in Concrete (-3 to 2')	
0	S-1	0 - 4	4.0/ 3.0	PID: 5 ppmv		TOPSOIL	S-1A (0 to 1.4'): TOPSOIL.	Concrete Pad (0 to 0.5') Native Soil (0.5 to 1')	
2						SAND & GRAVEL	S-1B (1.4 to 2.2'): Light brown/gray, fine to coarse SAND, some fine to medium Gravel, little Silt. Moist.	Bentonite Chips (1 to 2.8')	
4	S-2	4 - 5	1.0/ 1.0	PID: NA		GRAVELLY SAND	S-2 (4 to 5'): Brown/orange, fine to coarse SAND, little fine to medium Gravel, little Silt. Moist.		
6	S-3	5 - 10	5.0/ 5.0	PID: 7 ppmv			S-3A (5 to 7.2'): Light brown/brown, fine to coarse SAND, little fine to coarse Gravel, little Silt. Moist.	#1 Filter Sand (2.8 to 8.2')	
8						SAND & SILT	S-3B (7.2 to 7.7'): Brown, fine to coarse SAND and SILT, trace fine to medium Gravel. Moist.		
10	S-4	10 - 12	2.0/ 2.0	PID: NA			S-3C (7.7 to 10'): Highly broken, pink, GRANITE.		
12	S-5	12 - 15	3.0/ 3.0	PID: NA			S-4 (10 to 12'): Highly broken, pink, GRANITE.	Bentonite Chips (8.2 to 15')	
14							S-5A (12 to 15'): Highly broken, pink, GRANITE.		
16	R-1	15 - 20	5.0/ 3.2	PID: NA		GRANITE	R-1 (15 to 20'): Hard, fresh to very slightly weathered, pink, coarse-grained, GRANITE, Highly fractured.		
18									
20	R-2	20 - 27	7.0/ 1.5	PID: NA			R-2 (20 to 27'): Hard, moderate to severely weathered, pink, coarse-grained, GRANITE, Highly fractured.	2" Dia. Sch. 40 PVC Well Screen (0.010" Slots) (17 to 32')	
22									



Project: Granite State Landfill
 Location: Dalton, NH
 Project No.: 1003.20

Log of Monitoring Well MW-35R

Ground Elevation: 1155.56 ± feet
 TOC Elevation: 1158.46 ± feet
 PVC Elevation: 1158.22 ± feet
 Datum: NAVD 1988

Sanborn, Head & Associates, Inc.

Drilling Method: Geoprobe® 8150 LS Track Rig

Sampling Method: Sonic 6" / 4" Casing

Groundwater Readings

Date	Time	Depth to Water	Ref. Pt.	Depth of Casing	Depth of Hole	Stab. Time
07/15/21	07:30	22.72'	Ground Surface	20'	26.3'	15 Hours
07/15/21	11:30	28.76'	Top of PVC	Well Installed	Well Installed	<15 Minutes

Drilling Company: Glacier Drilling, LLC

Foreman: M. Schock

Date Started: 07/14/21

Date Finished: 07/15/21

Logged By: P. Pryor

Checked By: T. White

BORING LOG P:\1000S\1003.20\WORK\LOGS\1003.20.GPJ 2017 SANBORN HEAD V1.GLB 2017 SANBORN HEAD V1.GDT 10/26/21

Depth (ft)	Sample Information				Stratum		Geologic Description	Well Diagram	Well Description
	Sample No.	Depth (ft)	Pen/Rec (ft)	Field Testing Data	Log	Description			
24					+				
26					+				
27 - 35	R-3	27 - 35	8.0 / 3.2	PID: NA	+	GRANITE	R-3 (27 to 35'): Hard, moderate to severely weathered, pink, coarse-grained, GRANITE, Highly fractured.		#1 Filter Sand (15 to 34')
28					+				
30					+				
32					+				Silt Cap (32 to 32.3')
34					+				Bentonite Chips (34 to 35')
35					-----		Boring terminated at 35 feet. No refusal encountered.		
36									
38							NOTES: 1. Soil samples were screened for volatile organic compounds (VOCs) using a MiniRAE 3000 Photoionization Detector (PID) with a 10.6 eV lamp, calibrated to a 100 parts per million by volume (ppmv) isobutylene-in-air standard using a response factor of 1.0. Results are presented in ppmv; the typical detection limit is 1 ppmv. ND indicates not detected. NA indicates not available. The PID measures relative levels of VOCs. Although PID screening cannot be used directly to quantify VOC concentrations or identify individual compounds, the results can serve as a relative indicator for the presence of VOCs. 2. Approximately 325 gallons of potable water introduced to bedrock during drilling activities. 3. MW-35 and MW-35R well installations were completed in the same borehole. 4. The presence of granite bedrock is consistent with the Bedrock Geologic Map of New Hampshire (Lyons et al., 1997), which describes Late Devonian granite of the New Hampshire Plutonic Suite in the vicinity of the site.		
40									
42									
44									
46									
48									



Project: Granite State Landfill
 Location: Dalton, NH
 Project No.: 1003.22

Log of Monitoring Well MW-40

Ground Elevation: 1157.11 ± feet
 TOC Elevation: 1160.06 ± feet
 PVC Elevation: 1159.79 ± feet
 Datum: NAVD 1988

Sanborn, Head & Associates, Inc.

Drilling Method: Mobile B-57 Track Rig, 4" Casing and 3 7/8" Roller Bit

Sampling Method: None

Groundwater Readings

Date	Time	Depth to Water	Ref. Pt.	Depth of Casing	Depth of Hole	Stab. Time
05/17/22	11:49	5.08'	Top of PVC	Well Installed		<1 hr

Drilling Company: New England Boring Contractors

Foreman: M. Thompson

Date Started: 05/17/22

Date Finished: 05/17/22

Logged By: M. Stein

Checked By: T. White

BORING LOG P:\1000S\1003.22\WORK\LOGS\1003.22 LOGS.GPJ, 2017 SANBORN HEAD V1.GLB, 2017 SANBORN HEAD V1.GDT 6/6/23

Depth (ft)	Sample Information					Stratum		Geologic Description	Well Diagram	Well Description
	Sample No.	Depth (ft)	Spoon Blows per 6 in	Pen/Rec (in)	Field Testing Data	Log	Description			
-2										4" Dia. Protective Steel Casing with Locking Cap Set in Concrete (-3 to 2')
0							-----0'-----			2" Dia. Sch. 40 PVC Riser (-2.7 to 3.8')
2								Refer to log MW-40R for stratum and geologic descriptions.		Concrete Pad (0 to 0.4')
4										#1 Filter Sand (0.4 to 1')
6										Bentonite Chips (1 to 3')
8										#1 Filter Sand (3 to 11')
10										2" Dia. Sch. 40 PVC Well Screen (0.010" Slots) (3.8 to 10.8')
12							-----11'-----	Boring terminated at 11 feet. Casing refusal at 10.5 feet.		Conical Silt Cap (10.8 to 11')
14								NOTES: 1. MW-40 and MW-40R were installed as a monitoring well couplet in separate borings. Refer to MW-40R for stratum and geologic descriptions. 2. No water lost during drilling.		
16										
18										
20										
22										



Project: Granite State Landfill
 Location: Dalton, NH
 Project No.: 1003.22

Log of Monitoring Well MW-40R

Ground Elevation: 1157.39 ± feet
 TOC Elevation: 1160.23 ± feet
 PVC Elevation: 1160.05 ± feet
 Datum: NAVD 1988

Sanborn, Head & Associates, Inc.

Drilling Method: Mobile B-57 Track Rig, 4" Casing and 3 7/8" Roller Bit

Sampling Method: 24" long by 2" O.D. Split Spoon

Groundwater Readings

Date	Time	Depth to Water	Ref. Pt.	Depth of Casing	Depth of Hole	Stab. Time
05/17/22	09:45	5.16'	Top of PVC	Well Installed		<24 hrs

Drilling Company: New England Boring Contractors

Foreman: M. Thompson

Date Started: 05/16/22

Date Finished: 05/17/22

Logged By: M. Stein

Checked By: T. White

BORING LOG P:\1000S\1003.22\WORK\LOGS\1003.22 LOGS.GPJ, 2017 SANBORN HEAD V1.GDT 6/6/23

Depth (ft)	Sample Information					Stratum		Geologic Description	Well Diagram	Well Description
	Sample No.	Depth (ft)	Spoon Blows per 6 in	Pen/Rec (in)	Field Testing Data	Log	Description			
-2										4" Dia. Protective Steel Casing with Locking Cap Set in Concrete (-3 to 2')
										2" Dia. Sch. 40 PVC Riser (-2.7 to 16')
0	S-1	0 - 2	1 1 7 10	24/18	PID: ND		---0'--- ---0.2'--- SILT ---0.9'---	S-1A (0 to 0.2'): Dark brown TOPSOIL. Moist. S-1B (0.2 to 0.9'): Loose, orangish brown, SILT, trace Sand, very few Rootlets. Moist.		Concrete Pad (0 to 0.4')
2	S-2	2 - 4	16 26 18 34	24/20	PID: 2 ppmv		SAND	S-1C (0.9 to 2'): Loose, brown, fine to coarse SAND, little Silt, trace Gravel. Moist. S-2 (2 to 4'): Dense, brown to light brown, fine to medium SAND, some Silt. Moist.		
4	S-3	4 - 6	20 74 73 45	24/8	PID: 2 ppmv		COBBLES	S-3 (4 to 6'): Very dense, granitic COBBLES, interlayered with brown fine SAND, some Silt. Wet.		
6	S-4	6 - 8	37 85 80 51	24/18	PID: 1 ppmv		---6'--- SAND ---6.5'--- COBBLES	S-4A (6 to 6.5'): Very dense, brown, fine to medium SAND, little Silt. Wet. S-4B (6.5 to 7.7'): Very dense, orangish brown, weathered granite COBBLE. Wet.		#1 Filter Sand (0.4 to 10')
8	S-5	8 - 10	25 39 40 30	24/15	PID: ND		---8'--- COBBLES GLACIAL TILL	S-4C (7.7 to 8'): Very dense, white, pulverized granite COBBLE. Moist. S-5 (8 to 10'): Hard, olive brown, Clayey SILT, some Sand, little Gravel. Wet. TILL.		
10	S-6	10 - 11.2	20 73 100/2"	14/14	PID: ND		GLACIAL TILL	S-6 (10 to 11.2'): Very dense, olive brown, SILT, some Sand, trace Gravel. Wet. TILL.		
12	R-1	11.2 - 26					---11'--- GRANITE BEDROCK	R-1 (11.2 to 26'): Pink, GRANITE, Weathered zone noted at approximately 24 feet (change in drill rate).		Bentonite Chips (10 to 14')
14										
16										
18										
20										
22										2" Dia. Sch. 40 PVC Well Screen (0.010" Slots) (16 to 26')



Project: Granite State Landfill
 Location: Dalton, NH
 Project No.: 1003.22

Log of Monitoring Well MW-40R

Ground Elevation: 1157.39 ± feet
 TOC Elevation: 1160.23 ± feet
 PVC Elevation: 1160.05 ± feet
 Datum: NAVD 1988

Sanborn, Head & Associates, Inc.

Drilling Method: Mobile B-57 Track Rig, 4" Casing and 3 7/8" Roller Bit

Sampling Method: 24" long by 2" O.D. Split Spoon

Groundwater Readings

Date	Time	Depth to Water	Ref. Pt.	Depth of Casing	Depth of Hole	Stab. Time
05/17/22	09:45	5.16'	Top of PVC	Well Installed		<24 hrs

Drilling Company: New England Boring Contractors

Foreman: M. Thompson

Date Started: 05/16/22

Date Finished: 05/17/22

Logged By: M. Stein

Checked By: T. White

BORING LOG P:\1000S\1003.22\WORK\LOGS\1003.22 LOGS.GPJ, 2017 SANBORN HEAD V1.GLB, 2017 SANBORN HEAD V1.GDT 6/6/23

Depth (ft)	Sample Information					Stratum		Geologic Description	Well Diagram	Well Description
	Sample No.	Depth (ft)	Spoon Blows per 6 in	Pen/Rec (in)	Field Testing Data	Log	Description			
22						+				#1 Filter Sand (16 to 26.1')
24						+	GRANITE BEDROCK			
26						+	-----26.1'-----			Flat Silt Cap (26 to 26.1')
28								Boring terminated at 26.1 feet. Casing refusal at 11 feet. NOTES: 1. Soil samples were screened for volatile organic compounds (VOCs) using a MiniRAE 2000 Photoionization Detector (PID) with a 10.6 eV lamp, calibrated to a 100 parts per million by volume (ppmv) isobutylene-in-air standard using a response factor of 1.0. Results are presented in ppmv; the typical detection limit is 1 ppmv. ND indicates not detected. The PID measures relative levels of VOCs. Although PID screening cannot be used directly to quantify VOC concentrations or identify individual compounds, the results can serve as a relative indicator for the presence of VOCs. 2. MW-40 and MW-40R were installed as a monitoring well couplet in separate borings. 3. Approximately 25 gallons of water lost during bedrock drilling. 4. The presence of granite bedrock is consistent with the Bedrock Geologic Map of New Hampshire (Lyons et al., 1997), which describes Late Devonian granite of the New Hampshire Plutonic Suite in the vicinity of the site.		
30										
32										
34										
36										
38										
40										
42										
44										
46										



Project: Granite State Landfill
 Location: Dalton, NH
 Project No.: 1003.22

Log of Monitoring Well MW-41

Ground Elevation: 1186.51 ± feet
 TOC Elevation: 1189.46 ± feet
 PVC Elevation: 1189.25 ± feet
 Datum: NAVD 1988

Sanborn, Head & Associates, Inc.

Drilling Method: Mobile B-57 Track Rig, 4" Casing and 3 7/8" Roller Bit

Sampling Method: None

Groundwater Readings

Date	Time	Depth to Water	Ref. Pt.	Depth of Casing	Depth of Hole	Stab. Time
05/18/22	14:06	3.92'	Top of PVC	Well Installed		<1 hr

Drilling Company: New England Boring Contractors

Foreman: M. Thompson

Date Started: 05/18/22

Date Finished: 05/18/22

Logged By: M. Stein

Checked By: T. White

BORING LOG P:\1000S\1003.22\WORK\LOGS\1003.22 LOGS.GPJ, 2017 SANBORN HEAD V1.GLB, 2017 SANBORN HEAD V1.GDT, 6/6/23

Depth (ft)	Sample Information					Stratum		Geologic Description	Well Diagram	Well Description
	Sample No.	Depth (ft)	Spoon Blows per 6 in	Pen/Rec (in)	Field Testing Data	Log	Description			
-2										4" Dia. Protective Steel Casing with Locking Cap Set in Concrete (-3 to 2')
0							-----0'-----			2" Dia. Sch. 40 PVC Riser (-2.7 to 3.8')
2								Refer to log MW-41R for stratum and geologic descriptions.		Concrete Pad (0 to 0.4')
4										#1 Filter Sand (0.4 to 1')
6										Bentonite Chips (1 to 3')
8										
10										#1 Filter Sand (3 to 13.9')
12										2" Dia. Sch. 40 PVC Well Screen (0.010" Slots) (3.8 to 13.8')
14							-----13.9'-----	Boring terminated at 13.9 feet. Casing refusal at 13.5 feet.		Flat Silt Cap (13.8 to 13.9')
16								NOTES: 1. MW-41 and MW-41R were installed as a monitoring well couplet in separate borings. Refer to MW-41R for stratum and geologic descriptions. 2. No water lost during drilling.		
18										
20										
22										



Project: Granite State Landfill
 Location: Dalton, NH
 Project No.: 1003.22

Log of Monitoring Well MW-41R

Ground Elevation: 1186.63 ± feet
 TOC Elevation: 1189.67 ± feet
 PVC Elevation: 1189.49 ± feet
 Datum: NAVD 1988

Sanborn, Head & Associates, Inc.

Drilling Method: Mobile B-57 Track Rig, 4" Casing and 3 7/8" Roller Bit

Sampling Method: 24" long by 2" O.D. Split Spoon

Groundwater Readings

Date	Time	Depth to Water	Ref. Pt.	Depth of Casing	Depth of Hole	Stab. Time
05/18/22	13:40	6.33'	Top of PVC	Well Installed		<2 hrs

Drilling Company: New England Boring Contractors

Foreman: M. Thompson

Date Started: 05/17/22

Date Finished: 05/18/22

Logged By: M. Stein

Checked By: T. White

BORING LOG P:\1000S\1003.22\WORK\LOGS\1003.22 LOGS.GPJ, 2017 SANBORN HEAD V1.GLB, 2017 SANBORN HEAD V1.GDT 6/6/23

Depth (ft)	Sample Information					Stratum		Geologic Description	Well Diagram	Well Description
	Sample No.	Depth (ft)	Spoon Blows per 6 in	Pen/Rec (in)	Field Testing Data	Log	Description			
-2										4" Dia. Protective Steel Casing with Locking Cap Set in Concrete (-3 to 2') 2" Dia. Sch. 40 PVC Riser (-2.7 to 18.8')
0	S-1	0 - 2	1 1 1 1	24/12	PID: ND	CLAYEY SILT	0'	S-1A (0 to 0.1'): Dark brown TOPSOIL. Moist. S-1B (0.1 to 2'): Soft, orangish brown, Clayey SILT, trace Sand. Moist.		Concrete Pad (0 to 0.4')
2	S-2	2 - 4	4 12 19 20	24/8	PID: 1 ppmv		2'	S-2 (2 to 4'): Dense, orangish brown, fine to coarse SAND, some Silt, trace Gravel. Moist.		
4	S-3	4 - 6	7 15 34 49	24/20	PID: 1 ppmv	SILTY SAND		S-3 (4 to 6'): Dense, brown, fine to coarse SAND, some Silt, trace Gravel. Wet.		
6	S-4	6 - 8	35 35 35 40	24/18	PID: ND			S-4 (6 to 8'): Very dense, brown to grayish brown, fine to coarse SAND, some Silt, trace Gravel. Wet.		#1 Filter Sand (0.4 to 14')
8	S-5	8 - 10	18 27 29 26	24/13	PID: ND		8'	S-5 (8 to 10'): Very dense, dark tan, fine to coarse SAND and SILT, little Gravel. Wet. TILL.		
10	S-6	10 - 12	36 53 99 47	24/12	PID: ND	GLACIAL TILL		S-6 (10 to 12'): Very dense, dark tan, fine to coarse SAND, some Silt, little Gravel, with seams of Clayey SILT. Wet. TILL.		
12	S-7	12 - 14	24 27 52 59	24/15	PID: ND			S-7 (12 to 14'): Very dense, dark tan, SILT, some Sand, some Gravel. Wet. TILL.		
14	S-8 R-1	14 - 14.1 14.1 - 29	100/1"	1/1 ---			14'	S-8 (14 to 14.1'): Weathered pink GRANITE. R-1 (14.1 to 29'): White to pink, GRANITE, Weathered zone at 20.5 to 21.0 feet.		Bentonite Chips (14 to 17')
16										
18						GRANITE BEDROCK				
20										2" Dia. Sch. 40 PVC Well Screen (0.010" Slots) (18.8 to 28.8')
22										



Project: Granite State Landfill
 Location: Dalton, NH
 Project No.: 1003.22

Log of Monitoring Well MW-41R

Ground Elevation: 1186.63 ± feet
 TOC Elevation: 1189.67 ± feet
 PVC Elevation: 1189.49 ± feet
 Datum: NAVD 1988

Sanborn, Head & Associates, Inc.

Drilling Method: Mobile B-57 Track Rig, 4" Casing and 3 7/8" Roller Bit

Sampling Method: 24" long by 2" O.D. Split Spoon

Groundwater Readings

Date	Time	Depth to Water	Ref. Pt.	Depth of Casing Well Installed	Depth of Hole	Stab. Time
05/18/22	13:40	6.33'	Top of PVC			<2 hrs

Drilling Company: New England Boring Contractors

Foreman: M. Thompson

Date Started: 05/17/22

Date Finished: 05/18/22

Logged By: M. Stein

Checked By: T. White

Depth (ft)	Sample Information					Stratum		Geologic Description	Well Diagram	Well Description
	Sample No.	Depth (ft)	Spoon Blows per 6 in	Pen/Rec (in)	Field Testing Data	Log	Description			
22						+				#1 Filter Sand (17 to 29') 2" Dia. Sch. 40 PVC Well Screen (0.010" Slots) (18.8 to 28.8') Flat Silt Cap (28.8 to 29')
24						+				
26						+	GRANITE BEDROCK			
28						+				
29										
30								Boring terminated at 29 feet. No refusal encountered.		
32								NOTES: 1. Soil samples were screened for volatile organic compounds (VOCs) using a MiniRAE 2000 Photoionization Detector (PID) with a 10.6 eV lamp, calibrated to a 100 parts per million by volume (ppmv) isobutylene-in-air standard using a response factor of 1.0. Results are presented in ppmv; the typical detection limit is 1 ppmv. ND indicates not detected. The PID measures relative levels of VOCs. Although PID screening cannot be used directly to quantify VOC concentrations or identify individual compounds, the results can serve as a relative indicator for the presence of VOCs. 2. MW-41 and MW-41R were installed as a monitoring well couplet in separate borings. 3. Approximately 30 gallons of water lost during bedrock drilling. 4. The presence of granite bedrock is consistent with the Bedrock Geologic Map of New Hampshire (Lyons et al., 1997), which describes Late Devonian granite of the New Hampshire Plutonic Suite in the vicinity of the site.		
34										
36										
38										
40										
42										
44										
46										

BORING LOG P:\1000S\1003.22\WORK\LOGS\1003.22 LOGS.GPJ, 2017 SANBORN HEAD V1.GLB, 2017 SANBORN HEAD V1.GDT 6/6/23



Project: Granite State Landfill
 Location: Dalton, NH
 Project No.: 1003.22

Log of Monitoring Well MW-42

Ground Elevation: 1165.99 ± feet
 TOC Elevation: 1169.04 ± feet
 PVC Elevation: 1168.76 ± feet
 Datum: NAVD 1988

Sanborn, Head & Associates, Inc.

Drilling Method: Mobile B-57 Track Rig, 4" Casing and 3 7/8" Roller Bit

Sampling Method: None

Groundwater Readings

Date	Time	Depth to Water	Ref. Pt.	Depth of Casing	Depth of Hole	Stab. Time
05/20/22	12:03	4.06'	Top of PVC	Well Installed		<1 hr

Drilling Company: New England Boring Contractors

Foreman: M. Thompson

Date Started: 05/20/22

Date Finished: 05/20/22

Logged By: M. Stein

Checked By: T. White

Depth (ft)	Sample Information					Stratum		Geologic Description	Well Diagram	Well Description
	Sample No.	Depth (ft)	Spoon Blows per 6 in	Pen/Rec (in)	Field Testing Data	Log	Description			
-2										4" Dia. Protective Steel Casing with Locking Cap Set in Concrete (-3 to 2')
0							-----0'-----			2" Dia. Sch. 40 PVC Riser (-2.7 to 3.9')
2								Refer to log MW-42R for stratum and geologic descriptions.		Concrete Pad (0 to 0.4')
4										#1 Filter Sand (0.4 to 1')
6										Bentonite Chips (1 to 3')
8										
10										#1 Filter Sand (3 to 14.1')
12										2" Dia. Sch. 40 PVC Well Screen (0.010" Slots) (3.9 to 13.9')
14							-----14.1'-----	Boring terminated at 14.1 feet. No refusal encountered.		Conical Silt Cap (13.9 to 14.1')
16								NOTES: 1. MW-42 and MW-42R were installed as a monitoring well couplet in separate borings. Refer to MW-42R for stratum and geologic descriptions. 2. Approximately 30 gallons of water lost during drilling.		
18										
20										
22										

BORING LOG P:\1000S\1003.22\WORK\LOGS\1003.22 LOGS.GPJ, 2017 SANBORN HEAD V1.GLB, 2017 SANBORN HEAD V1.GDT, 6/6/23



Project: Granite State Landfill
 Location: Dalton, NH
 Project No.: 1003.22

Log of Monitoring Well MW-42R

Ground Elevation: 1165.98 ± feet
 TOC Elevation: 1168.96 ± feet
 PVC Elevation: 1168.66 ± feet
 Datum: NAVD 1988

Sanborn, Head & Associates, Inc.

Drilling Method: Mobile B-57 Track Rig, 3 3/4" Casing and 3 7/8" Roller Bit

Sampling Method: 24" long by 2" O.D. Split Spoon

Groundwater Readings

Date	Time	Depth to Water	Ref. Pt.	Depth of Casing	Depth of Hole	Stab. Time
05/20/22	09:23	5.69'	Top of PVC	Well Installed		<24 hrs

Drilling Company: New England Boring Contractors

Foreman: M. Thompson

Date Started: 05/19/22

Date Finished: 05/20/22

Logged By: M. Stein

Checked By: T. White

BORING LOG P:\1000S\1003.22\WORK\LOGS\1003.22 LOGS.GPJ, 2017 SANBORN HEAD V1.GLB, 2017 SANBORN HEAD V1.GDT, 6/6/23

Depth (ft)	Sample Information					Stratum		Geologic Description	Well Diagram	Well Description
	Sample No.	Depth (ft)	Spoon Blows per 6 in	Pen/ Rec (in)	Field Testing Data	Log	Description			
-2										4" Dia. Protective Steel Casing with Locking Cap Set in Concrete (-3 to 2')
0	S-1	0 - 2	2 7 12 24	24/8	PID: ND	x	0' 0.2'	S-1A (0 to 0.2'): Dark brown TOPSOIL. Moist.		Concrete Pad (0 to 0.4')
2	S-2	2 - 4	17 22 23 27	24/20	PID: 1 ppmv	x	GRAVELLY SAND	S-1B (0.2 to 2'): Medium dense, brown, fine to coarse SAND, some Gravel, little Silt. Moist. S-2 (2 to 4'): Dense, brown, fine to coarse SAND, some Gravel, little Silt. Moist.		
4						x	4' BOULDER	BOULDER.		
6	S-3	5 - 7	57 51 30 22	24/10	PID: ND	x	5' SILTY GRAVELLY SAND	S-3 (5 to 7'): Very dense, brown, fine to coarse SAND, some Gravel, some Silt. Wet.		
8	S-4	7 - 9	18 28 27 75	24/8	PID: ND	x	7' SAND & SILT	S-4 (7 to 9'): Very dense, dark tan, fine to medium SAND and SILT, trace Gravel. Wet.		
10	S-5	9 - 11	56 90 38 32	24/15	PID: ND	x	8.5' SAND & GRAVEL	S-5 (9 to 11'): Very dense, dark tan, SAND and GRAVEL with fine to medium SAND & SILT. Wet. Seam of dark brown Clayey Silt from 10.8 to 11'.		Native Soils (0.4 to 18')
12	S-6	11 - 13	33 53 56 77	24/16	PID: 1 ppmv	x	10.8'	S-6 (11 to 13'): Hard, dark tan, Clayey SILT, with seams of fine to coarse SAND, little Gravel. Wet. TILL.		
14	S-7	13 - 15	35 40 50 40	24/20	PID: 2 ppmv	x	GLACIAL TILL	S-7 (13 to 15'): Hard, dark tan, Clayey SILT, some Sand, little Gravel. Wet. TILL.		
16	S-8	15 - 17	28 35 45 61	24/14	PID: ND	x	GLACIAL TILL	S-8 (15 to 17'): Hard, dark tan, Clayey SILT, some Sand, little Gravel. Wet. TILL.		
18	S-9	17 - 18.6	25 21 45 50/1"	19/14	PID: ND	x	GLACIAL TILL	S-9A (17 to 18.3'): Hard, dark tan, Clayey SILT, some Sand, little Gravel. Wet. TILL.		
20	R-1	18.6 - 38.2				x	18.3' BOULDERS	S-9B (18.3 to 18.6'): Weathered granite BOULDER. R-1A (18.6 to 20.5'): Granite BOULDER.		
22						x	20.5' GLACIAL TILL	R-1B (20.5 to 23'): Presumed TILL.		Bentonite Pellets (18 to 26')
24						x	23' GRANITE	R-1C (23 to 38.2'): Pink to white, GRANITE, Weathered zones at 27 and 36 feet.		



Project: Granite State Landfill
 Location: Dalton, NH
 Project No.: 1003.22

Log of Monitoring Well MW-42R

Ground Elevation: 1165.98 ± feet
 TOC Elevation: 1168.96 ± feet
 PVC Elevation: 1168.66 ± feet
 Datum: NAVD 1988

Sanborn, Head & Associates, Inc.

Drilling Method: Mobile B-57 Track Rig, 3 1/4" Casing and 3 7/8" Roller Bit

Sampling Method: 24" long by 2" O.D. Split Spoon

Groundwater Readings

Date	Time	Depth to Water	Ref. Pt.	Depth of Casing	Depth of Hole	Stab. Time
05/20/22	09:23	5.69'	Top of PVC	Well Installed		<24 hrs

Drilling Company: New England Boring Contractors

Foreman: M. Thompson

Date Started: 05/19/22

Date Finished: 05/20/22

Logged By: M. Stein

Checked By: T. White

BORING LOG P:\1000S\1003.22\WORK\LOGS\1003.22 LOGS.GPJ, 2017 SANBORN HEAD V1.GLB, 2017 SANBORN HEAD V1.GDT 6/6/23

Depth (ft)	Sample Information					Stratum		Geologic Description	Well Diagram	Well Description	
	Sample No.	Depth (ft)	Spoon Blows per 6 in	Pen/Rec (in)	Field Testing Data	Log	Description				
26						+	GRANITE		#1 Filter Sand (26 to 38.2') 2" Dia. Sch. 40 PVC Well Screen (0.010" Slots) (28 to 38')		
28					+						
30					+						
32					+						
34					+						
36					+						
38					+	-----38.2'-----					
40										Boring terminated at 38.2 feet. No refusal encountered. NOTES: 1. Soil samples were screened for volatile organic compounds (VOCs) using a MiniRAE 2000 Photoionization Detector (PID) with a 10.6 eV lamp, calibrated to a 100 parts per million by volume (ppmv) isobutylene-in-air standard using a response factor of 1.0. Results are presented in ppmv; the typical detection limit is 1 ppmv. ND indicates not detected. The PID measures relative levels of VOCs. Although PID screening cannot be used directly to quantify VOC concentrations or identify individual compounds, the results can serve as a relative indicator for the presence of VOCs. 2. MW-42 and MW-42R were installed as a monitoring well couplet in separate borings. 3. Approximately 15 gallons of water lost during bedrock drilling. 4. The presence of granite bedrock is consistent with the Bedrock Geologic Map of New Hampshire (Lyons et al., 1997), which describes Late Devonian granite of the New Hampshire Plutonic Suite in the vicinity of the site. 5. Nominal 4" Dia. casing advanced to 19 feet, nominal 3" Dia. casing advanced from 24 feet to bottom of boring.	Conical Silt Cap (38 to 38.2')
42											
44											
46											
48											
50											
52											



Project: Granite State Landfill
 Location: Dalton, NH
 Project No.: 1003.22

Log of Monitoring Well MW-43

Ground Elevation: 1211.04 ± feet
 TOC Elevation: 1214.04 ± feet
 PVC Elevation: 1213.81 ± feet
 Datum: NAVD 1988

Sanborn, Head & Associates, Inc.

Drilling Method: Mobile B-57 Track Rig, 4" Casing and 3 7/8" Roller Bit

Sampling Method: None

Groundwater Readings

Date	Time	Depth to Water	Ref. Pt.	Depth of Casing	Depth of Hole	Stab. Time
05/24/22	08:00	10.03'	Top of PVC	Well Installed		<24 hrs

Drilling Company: New England Boring Contractors

Foreman: M. Thompson

Date Started: 05/23/22

Date Finished: 05/23/22

Logged By: M. Stein

Checked By: T. White

BORING LOG P:\1000S\1003.22\WORK\LOGS\1003.22 LOGS.GPJ 2017 SANBORN HEAD V1.GLB 2017 SANBORN HEAD V1.GDT 6/6/23

Depth (ft)	Sample Information					Stratum		Geologic Description	Well Diagram	Well Description
	Sample No.	Depth (ft)	Spoon Blows per 6 in	Pen/Rec (in)	Field Testing Data	Log	Description			
-2										4" Dia. Protective Steel Casing with Locking Cap Set in Concrete (-3 to 2')
0							-----0'-----	Refer to log MW-43R for stratum and geologic descriptions.		2" Dia. Sch. 40 PVC Riser (-2.7 to 4.1')
2										Concrete Pad (0 to 0.4')
4										#1 Filter Sand (0.4 to 1')
6										Bentonite Chips (1 to 3')
8										#1 Filter Sand (2 to 14.3')
10										2" Dia. Sch. 40 PVC Well Screen (0.010" Slots) (4.1 to 14.1')
12										
14							-----14.3'-----	Boring terminated at 14.3 feet. No refusal encountered.		Conical Silt Cap (14.1 to 14.3')
16								NOTES: 1. MW-43 and MW-43R were installed as a monitoring well couplet in separate borings. Refer to MW-40R for stratum and geologic descriptions. 2. No water lost during drilling.		
18										
20										
22										



Project: Granite State Landfill
 Location: Dalton, NH
 Project No.: 1003.22

Log of Monitoring Well MW-43R

Ground Elevation: 1211.00 ± feet
 TOC Elevation: 1213.90 ± feet
 PVC Elevation: 1213.63 ± feet
 Datum: NAVD 1988

Sanborn, Head & Associates, Inc.

Drilling Method: Mobile B-57 Track Rig, 4" Casing and 3 7/8" Roller Bit

Sampling Method: 24" long by 2" O.D. Split Spoon

Groundwater Readings

Date	Time	Depth to Water	Ref. Pt.	Depth of Casing	Depth of Hole	Stab. Time
05/24/22	07:56	7.42'	Top of PVC	Well Installed		<24 hrs

Drilling Company: New England Boring Contractors

Foreman: M. Thompson

Date Started: 05/23/22

Date Finished: 05/23/22

Logged By: M. Stein

Checked By: T. White

BORING LOG P:\1000S\1003.22\WORK\LOGS\1003.22 LOGS.GPJ, 2017 SANBORN HEAD V1.GLB, 2017 SANBORN HEAD V1.GDT 6/6/23

Depth (ft)	Sample Information					Stratum		Geologic Description	Well Diagram	Well Description
	Sample No.	Depth (ft)	Spoon Blows per 6 in	Pen/Rec (in)	Field Testing Data	Log	Description			
-2										4" Dia. Protective Steel Casing with Locking Cap Set in Concrete (-3 to 2')
0	S-1	0 - 2	1 1 13 17	24/14	PID: ND		---0'--- SILT	S-1A (0 to 0.8'): Medium dense, orangish brown to brown, SILT, trace Sand. Moist.		Concrete Pad (0 to 0.4')
2	S-2	2 - 4	22 47 54 85	24/22	PID: ND	x x x	---0.8'--- GRAVELLY SAND	S-1B (0.8 to 2'): Medium dense, brown, fine to coarse SAND, some Gravel, little Silt. Moist. S-2 (2 to 4'): Very dense, brown, fine to coarse SAND, some Gravel, little Silt. Moist.		
4	S-3	4 - 4.1		1/1	PID: - ppmv	x	---4'--- COBBLES BOULDERS	S-3 (4 to 4.1'): Rock fragments in tip of sample. Granite COBBLES/BOULDERS from 4 to 8 feet.		
8	S-4	8 - 10	34 41 50 55	21/16	PID: 1 ppmv		---8'--- GLACIAL TILL	S-4 (8 to 10'): Hard, dark tan, Clayey SILT, little Sand, trace Gravel. Wet. TILL.		Native Soils (0.4 to 13.9')
10	S-5	10 - 12	25 30 45 48	24/20	PID: 1 ppmv			S-5 (10 to 12'): Hard, dark tan, SILT & CLAY, little Sand, trace Gravel. Wet. TILL.		
12	S-6	12 - 14	53 75 81 69	24/18	PID: 1 ppmv			S-6 (12 to 14'): Hard, dark tan, SILT & CLAY, little Sand, trace Gravel, Seam of orange fine to coarse Sand near middle of recovery. Moist. TILL.		
14	S-7 R-1	14 - 14.3 14.2 - 29.1	100/4"	4/3 ---	PID: 1 ppmv		---14.2'--- GRANITE	S-7A (14 to 14.2'): Hard, dark tan, SILT & CLAY, little Sand, trace Gravel. Moist. TILL. S-7B (14.2 to 14.3'): Pulverized pink GRANITE. R-1 (14.2 to 29.1'): Weathered, pink, GRANITE, Frequent redoximorphic features.		Bentonite Chips (13.9 to 17')
20										2" Dia. Sch. 40 PVC Well Screen (0.010" Slots) (18.9 to 28.9')



Project: Granite State Landfill
 Location: Dalton, NH
 Project No.: 1003.22

Log of Monitoring Well MW-43R

Ground Elevation: 1211.00 ± feet
 TOC Elevation: 1213.90 ± feet
 PVC Elevation: 1213.63 ± feet
 Datum: NAVD 1988

Sanborn, Head & Associates, Inc.

Drilling Method: Mobile B-57 Track Rig, 4" Casing and 3 7/8" Roller Bit

Sampling Method: 24" long by 2" O.D. Split Spoon

Groundwater Readings

Date	Time	Depth to Water	Ref. Pt.	Depth of Casing Well Installed	Depth of Hole	Stab. Time
05/24/22	07:56	7.42'	Top of PVC			<24 hrs

Drilling Company: New England Boring Contractors

Foreman: M. Thompson

Date Started: 05/23/22

Date Finished: 05/23/22

Logged By: M. Stein

Checked By: T. White

BORING LOG P:\1000S\1003.22\WORK\LOGS\1003.22 LOGS.GPJ, 2017 SANBORN HEAD V1.GLB, 2017 SANBORN HEAD V1.GDT 6/6/23

Depth (ft)	Sample Information					Stratum		Geologic Description	Well Diagram	Well Description
	Sample No.	Depth (ft)	Spoon Blows per 6 in	Pen/Rec (in)	Field Testing Data	Log	Description			
22						+				#1 Filter Sand (17 to 29.1') 2" Dia. Sch. 40 PVC Well Screen (0.010" Slots) (18.9 to 28.9') Conical Silt Cap (28.9 to 29.1')
24					+					
26					+	GRANITE				
28					+					
29.1					+					
30								Boring terminated at 29.1 feet. No refusal encountered.		
32								NOTES: 1. Soil samples were screened for volatile organic compounds (VOCs) using a MiniRAE 2000 Photoionization Detector (PID) with a 10.6 eV lamp, calibrated to a 100 parts per million by volume (ppmv) isobutylene-in-air standard using a response factor of 1.0. Results are presented in ppmv; the typical detection limit is 1 ppmv. ND indicates not detected. The PID measures relative levels of VOCs. Although PID screening cannot be used directly to quantify VOC concentrations or identify individual compounds, the results can serve as a relative indicator for the presence of VOCs. 2. MW-43 and MW-43R were installed as a monitoring well couplet in separate borings. 3. No water lost during bedrock drilling. 4. The presence of granite bedrock is consistent with the Bedrock Geologic Map of New Hampshire (Lyons et al., 1997), which describes Late Devonian granite of the New Hampshire Plutonic Suite in the vicinity of the site.		
34										
36										
38										
40										
42										
44										
46										



Project: Granite State Landfill
 Location: Dalton, NH
 Project No.: 1003.22

Log of Monitoring Well MW-44

Ground Elevation: 1277.50 ± feet
 TOC Elevation: 1280.40 ± feet
 PVC Elevation: 1280.18 ± feet
 Datum: NAVD 1988

Sanborn, Head & Associates, Inc.

Drilling Method: Mobile B-57 Track Rig, 4" Casing and 3 7/8" Roller Bit

Sampling Method: None

Groundwater Readings

Date	Time	Depth to Water	Ref. Pt.	Depth of Casing	Depth of Hole	Stab. Time
05/25/22	11:06	4.57'	Top of PVC	Well Installed		<1 hr

Drilling Company: New England Boring Contractors

Foreman: M. Thompson

Date Started: 05/25/22

Date Finished: 05/25/22

Logged By: M. Stein

Checked By: T. White

BORING LOG P:\1000S\1003.22\WORK\LOGS\1003.22 LOGS.GPJ 2017 SANBORN HEAD V1.GLB 2017 SANBORN HEAD V1.GDT 6/6/23

Depth (ft)	Sample Information					Stratum		Geologic Description	Well Diagram	Well Description
	Sample No.	Depth (ft)	Spoon Blows per 6 in	Pen/Rec (in)	Field Testing Data	Log	Description			
-2										4" Dia. Protective Steel Casing with Locking Cap Set in Concrete (-3 to 2')
										2" Dia. Sch. 40 PVC Riser (-2.7 to 3')
0							-----0'-----	Refer to log MW-44R for stratum and geologic descriptions.		Concrete Pad (0 to 0.4')
										#1 Filter Sand (0.4 to 1')
2										Bentonite Chips (1 to 3')
4										
6										
8										#1 Filter Sand (3 to 11.9')
										#1 Filter Sand (3 to 12')
										2" Dia. Sch. 40 PVC Well Screen (0.010" Slots) (3.9 to 11.9')
10										
12							-----12'-----	Boring terminated at 12 feet. No refusal encountered.		Flat Silt Cap (11.9 to 12')
14								NOTES: 1. MW-44 and MW-44R were installed as a monitoring well couplet in separate borings. Refer to MW-44R for stratum and geologic descriptions. 2. Approximately 15 gallons of water lost during drilling.		
16										
18										
20										
22										



Project: Granite State Landfill
 Location: Dalton, NH
 Project No.: 1003.22

Log of Monitoring Well MW-44R

Ground Elevation: 1277.57 ± feet
 TOC Elevation: 1280.52 ± feet
 PVC Elevation: 1280.25 ± feet
 Datum: NAVD 1988

Sanborn, Head & Associates, Inc.

Drilling Method: Mobile B-57 Track Rig, 4" Casing and 3 7/8" Roller Bit

Sampling Method: 24" long by 2" O.D. Split Spoon

Groundwater Readings

Date	Time	Depth to Water	Ref. Pt.	Depth of Casing	Depth of Hole	Stab. Time
05/25/22	09:30	5.8'	Top of PVC	Well Installed		<24 hrs

Drilling Company: New England Boring Contractors

Foreman: M. Thompson

Date Started: 05/24/22

Date Finished: 05/24/22

Logged By: M. Stein

Checked By: T. White

BORING LOG P:\1000S\1003.22\WORK\LOGS\1003.22 LOGS.GPJ, 2017 SANBORN HEAD V1.GLB, 2017 SANBORN HEAD V1.GDT, 6/6/23

Depth (ft)	Sample Information					Stratum		Geologic Description	Well Diagram	Well Description
	Sample No.	Depth (ft)	Spoon Blows per 6 in	Pen/Rec (in)	Field Testing Data	Log	Description			
-2										4" Dia. Protective Steel Casing with Locking Cap Set in Concrete (-3 to 2') 2" Dia. Sch. 40 PVC Riser (-2.7 to 17')
0	S-1	0 - 1.7	2 5 8 50/2"	20/18	PID: ND	---	0' TOPSOIL	S-1A (0 to 1'): Dark brown TOPSOIL. Moist.		Concrete Pad (0 to 0.4')
2	S-2	2 - 3.2	22 70 50/2"	14/12	PID: ND	---	1' SILT 1.6' COBBLES	S-1B (1 to 1.6'): Medium dense, orangish brown, SILT, little Sand. Moist. S-1C (1.6 to 2'): Pulverized COBBLE debris.		
4						---	3.2' SILTY SAND COBBLES	S-2 (2 to 3.2'): Very dense, brown, fine to coarse SAND, some Silt, trace Gravel. Moist.		
6	S-3	6 - 6.8	63 100/4"	10/8	PID: ND	---	5.5' SAND & GRAVEL 6.8' COBBLE	S-3 (6 to 6.8'): Very dense, brown, fine to coarse SAND & GRAVEL, little Silt. Wet.		Native Soils (0.4 to 12')
8	S-4	8 - 10	44 77 99 95	24/16	PID: 1 ppmv	---	7.5' GLACIAL TILL	S-4 (8 to 10'): Very dense, brown, SILT, some Sand, some Gravel. Wet. TILL.		
10	S-5	10 - 11.8	42 67 75 100/3"	20/20	PID: ND			S-5 (10 to 11.8'): Very dense, brown, SILT, little Sand, trace Gravel, seams of Clayey Silt. Moist. TILL.		
12	R-1	12 - 27				---	11.8'	R-1 (12 to 27'): Pink, GRANITE, Redoximorphic features common from 12 to 23 feet. Weathered zone noted at 20.5 to 21 feet.		Bentonite Chips (12 to 15')
14										
16										
18										
20										2" Dia. Sch. 40 PVC Well Screen (0.010" Slots) (17 to 27')
22										#1 Filter Sand (15 to 27.2')



Project: Granite State Landfill
 Location: Dalton, NH
 Project No.: 1003.22

Log of Monitoring Well MW-44R

Ground Elevation: 1277.57 ± feet
 TOC Elevation: 1280.52 ± feet
 PVC Elevation: 1280.25 ± feet
 Datum: NAVD 1988

Sanborn, Head & Associates, Inc.

Drilling Method: Mobile B-57 Track Rig, 4" Casing and 3 7/8" Roller Bit

Sampling Method: 24" long by 2" O.D. Split Spoon

Groundwater Readings

Date	Time	Depth to Water	Ref. Pt.	Depth of Casing	Depth of Hole	Stab. Time
05/25/22	09:30	5.8'	Top of PVC	Well Installed		<24 hrs

Drilling Company: New England Boring Contractors

Foreman: M. Thompson

Date Started: 05/24/22

Date Finished: 05/24/22

Logged By: M. Stein

Checked By: T. White

BORING LOG P:\1000S\1003.22\WORK\LOGS\1003.22 LOGS.GPJ, 2017 SANBORN HEAD V1.GLB, 2017 SANBORN HEAD V1.GDT, 6/6/23

Depth (ft)	Sample Information					Stratum		Geologic Description	Well Diagram	Well Description
	Sample No.	Depth (ft)	Spoon Blows per 6 in	Pen/Rec (in)	Field Testing Data	Log	Description			
22						+				2" Dia. Sch. 40 PVC Well Screen (0.010" Slots) (17 to 27')
24						+				
26						+				
27.2						+	GRANITE			
28										
27.2								Boring terminated at 27.2 feet. No refusal encountered.		Conical Silt Cap (27 to 27.2')
30								NOTES: 1. Soil samples were screened for volatile organic compounds (VOCs) using a MiniRAE 2000 Photoionization Detector (PID) with a 10.6 eV lamp, calibrated to a 100 parts per million by volume (ppmv) isobutylene-in-air standard using a response factor of 1.0. Results are presented in ppmv; the typical detection limit is 1 ppmv. ND indicates not detected. The PID measures relative levels of VOCs. Although PID screening cannot be used directly to quantify VOC concentrations or identify individual compounds, the results can serve as a relative indicator for the presence of VOCs.		
34								2. MW-44 and MW-44R were installed as a monitoring well couplet in separate borings.		
36								3. Approximately 60 gallons of water lost during bedrock drilling.		
38								4. The presence of granite bedrock is consistent with the Bedrock Geologic Map of New Hampshire (Lyons et al., 1997), which describes Late Devonian granite of the New Hampshire Plutonic Suite in the vicinity of the site.		
40										
42										
44										
46										

Appendix 2

Direct Shear Interface Tests

Drainage Sand/Drainage Geocomposite



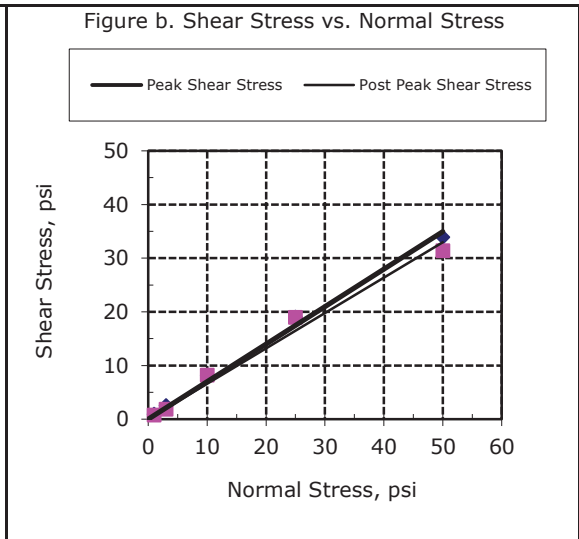
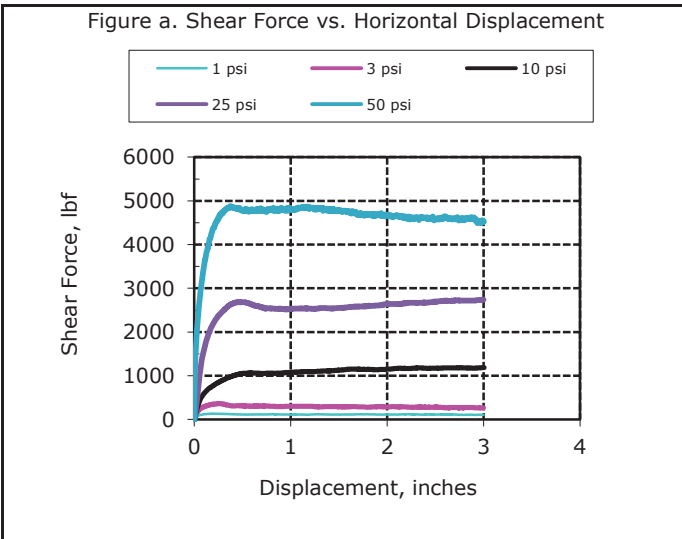
Client:	Casella Waste Systems, Inc.		
Project Name:	NCES Stage VI Ph II & CAP4 Projects		
Project Location:	Bethlehem, NH		
GTX #:	317026		
Start Date:	05/30/23	Tested By:	est
End Date:	05/31/23	Checked By:	dln
Soil ID:	Select Sand		
Soil Description:	Moist, light brownish gray sand		
Geocomposite ID:	Roll #131281010019 (TN270-2-8)		
Geocomposite Description:	Black, 270 mil Skaps biplanar double-sided nonwoven		

Interface Shear Test Series by ASTM D5321

Test Series #:	1		
Test Profile - Top to Bottom:	steel plate / SOIL / GEOCOMPOSITE / textured gripping surface		
Soil Preparation:	Target Compaction: 95% of the maximum dry density at the optimum moisture content (+2%). Values specified by client.		
Compaction Characteristics:	Maximum Dry Density	118.5 pcf	
	Optimum Moisture Content	12.8 %	
	Compaction Test Method	ASTM D1557	
Geosynthetic Preparation:	Test set-up saturated at normal load for 4 hours prior to shear.		
Test Equipment:	Top box = 12 in x 12 in; Bottom box = 12 in x 12 in; Load cells and LVDTs connected to data acquisition system for shear force, normal load and horizontal displacement readings; Flat plate clamping device; surface area = 144 in ²		
Horizontal Displacement, in/min:	0.04	Test Condition:	inundated

Parameter	Point 1	Point 2	Point 3	Point 4	Point 5	Point 6
Initial Moisture Content, %	13.5	13.3	13.6	13.7	13.4	---
Initial Dry Density, pcf	112.6	112.8	112.5	112.4	112.7	---
Percent Compaction, %	95.0	95.2	94.9	94.8	95.1	---
Final Moisture Content, %	20.4	19.8	16.3	16.3	16.2	---
Normal Compressive Stress, psi	1	3	10	25	50	---
Peak Shear Stress, psi	0.9	2.5	8.2	19	34	---
Post Peak Shear Stress, psi	0.7	1.9	8.2	19	31	---
Peak Secant Friction Angle, °	42.6	40.0	39.5	37.3	34.1	---
Post-Peak Secant Friction Angle, °	36.6	31.8	39.4	37.2	32.1	---

NOTES:	Peak Friction Angle:	33.9	degrees
	Peak Adhesion:	0.9	psi
	Post Peak Friction Angle:	32.3	degrees
	Post Peak Adhesion:	1.0	psi

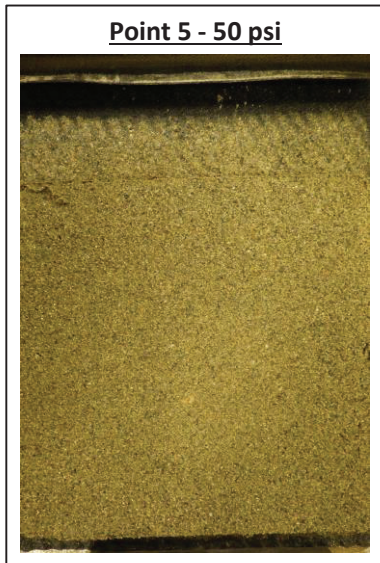


Notes: These results apply only to the sample tested for the specific test conditions. The test procedures employed follow accepted industry practice and the indicated test method. GeoTesting Express has no specific knowledge as to conditioning, origin, sampling procedure or intended use of the material. Values for cohesion and friction angle determined from best-fit straight line to the data for the specific test conditions. Actual strength parameters may vary and should be determined by an engineer for site-specific conditions.

Client:	Casella Waste Systems, Inc.	
Project Name:	NCES Stage VI Ph II & CAP4 Projects	
Project Location:	Bethlehem, NH	
GTX #:	317026	
Start Date:	05/30/23	Tested By: est
End Date:	05/31/23	Checked By: dln
Soil ID:	Select Sand	
Soil Description:	Moist, light brownish gray sand	
Geocomposite ID:	Roll #131281010019 (TN270-2-8)	
Geocomposite Description:	Black, 270 mil Skaps biplanar double-sided nonwoven	

Interface Shear Test Series by ASTM D5321

Post-Shear Photos



Notes: These results apply only to the sample tested for the specific test conditions. The test procedures employed follow accepted industry practice and the indicated test method. GeoTesting Express has no specific knowledge as to conditioning, origin, sampling procedure or intended use of the material. Values for cohesion and friction angle determined from best-fit straight line to the data for the specific test conditions. Actual strength parameters may vary and should be determined by an engineer for site-specific conditions.



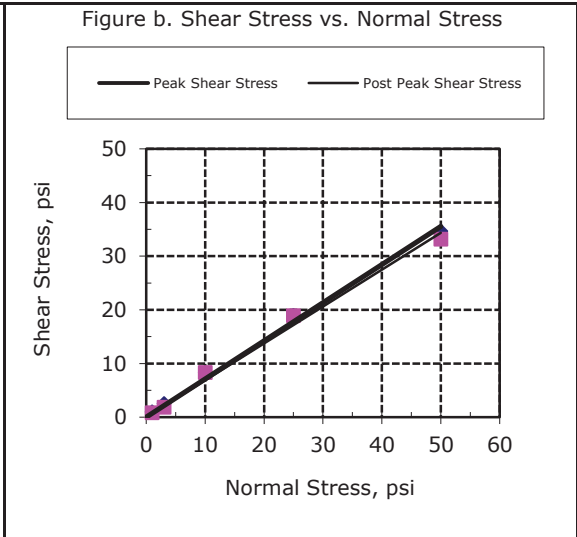
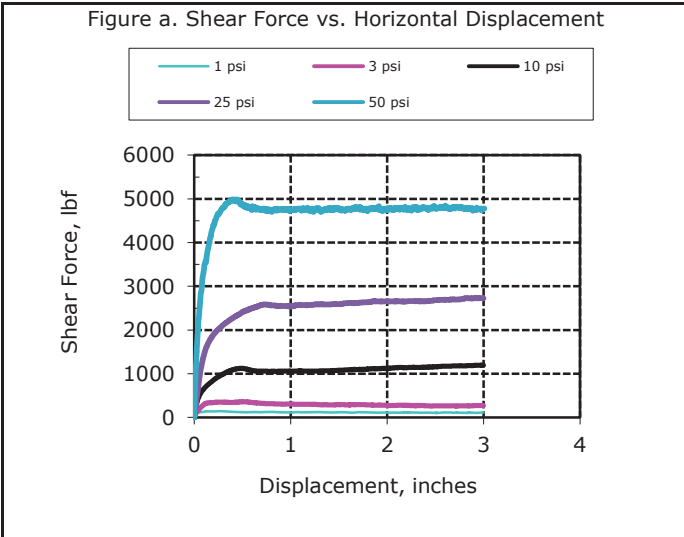
Client:	Casella Waste Systems, Inc.		
Project Name:	NCES Stage VI Ph II & CAP4 Projects		
Project Location:	Bethlehem, NH		
GTX #:	317026		
Start Date:	05/30/23	Tested By:	est
End Date:	05/31/23	Checked By:	dln
Soil ID:	Select Sand		
Soil Description:	Moist, light brownish gray sand		
Geocomposite ID:	Roll #131281010019 (TN270-2-8)		
Geocomposite Description:	Black, 270 mil Skaps biplanar double-sided nonwoven		

Interface Shear Test Series by ASTM D5321

Test Series #:	2		
Test Profile - Top to Bottom:	steel plate / SOIL / GEOCOMPOSITE / textured gripping surface		
Soil Preparation:	Target Compaction: 95% of the maximum dry density at the optimum moisture content (+2%). Values specified by client.		
Compaction Characteristics:	Maximum Dry Density	118.5 pcf	
	Optimum Moisture Content	12.8 %	
	Compaction Test Method	ASTM D1557	
Geosynthetic Preparation:	Test set-up saturated at normal load for 4 hours prior to shear.		
Test Equipment:	Top box = 12 in x 12 in; Bottom box = 12 in x 12 in; Load cells and LVDTs connected to data acquisition system for shear force, normal load and horizontal displacement readings; Flat plate clamping device; surface area = 144 in ²		
Horizontal Displacement, in/min:	0.04	Test Condition:	inundated

Parameter	Point 1	Point 2	Point 3	Point 4	Point 5	Point 6
Initial Moisture Content, %	13.6	13.7	13.8	13.9	13.4	---
Initial Dry Density, pcf	112.5	112.4	112.3	112.2	112.7	---
Percent Compaction, %	94.9	94.8	94.8	94.7	95.1	---
Final Moisture Content, %	19.7	18.3	17.7	15.2	14.3	---
Normal Compressive Stress, psi	1	3	10	25	50	---
Peak Shear Stress, psi	1.0	2.5	8.3	19	35	---
Post Peak Shear Stress, psi	0.8	1.9	8.3	19	33	---
Peak Secant Friction Angle, °	45.1	40.0	39.7	37.2	34.7	---
Post-Peak Secant Friction Angle, °	38.6	32.0	39.7	37.1	33.6	---

NOTES:	Peak Friction Angle:	34.5	degrees
	Peak Adhesion:	0.9	psi
	Post Peak Friction Angle:	33.7	degrees
	Post Peak Adhesion:	0.8	psi



Notes: These results apply only to the sample tested for the specific test conditions. The test procedures employed follow accepted industry practice and the indicated test method. GeoTesting Express has no specific knowledge as to conditioning, origin, sampling procedure or intended use of the material. Values for cohesion and friction angle determined from best-fit straight line to the data for the specific test conditions. Actual strength parameters may vary and should be determined by an engineer for site-specific conditions.

Client:	Casella Waste Systems, Inc.		
Project Name:	NCES Stage VI Ph II & CAP4 Projects		
Project Location:	Bethlehem, NH		
GTX #:	317026		
Start Date:	05/30/23	Tested By:	est
End Date:	05/31/23	Checked By:	dln
Soil ID:	Select Sand		
Soil Description:	Moist, light brownish gray sand		
Geocomposite ID:	Roll #131281010019 (TN270-2-8)		
Geocomposite Description:	Black, 270 mil Skaps biplanar double-sided nonwoven		

Interface Shear Test Series by ASTM D5321

Post-Shear Photos



Notes: These results apply only to the sample tested for the specific test conditions. The test procedures employed follow accepted industry practice and the indicated test method. GeoTesting Express has no specific knowledge as to conditioning, origin, sampling procedure or intended use of the material. Values for cohesion and friction angle determined from best-fit straight line to the data for the specific test conditions. Actual strength parameters may vary and should be determined by an engineer for site-specific conditions.

Geocomposite/Liner



Client:	Casella Waste Systems, Inc.		
Project Name:	NCES Stage VI Ph II & CAP4 Projects		
Project Location:	Bethlehem, NH		
GTX #:	317026		
Start Date:	05/23/23	Tested By:	est
End Date:	05/29/23	Checked By:	dln
Geosynthetic ID: TOP	Geomembrane: Roll #0102-209818		
Description: TOP	Geomembrane: Black, 60 mil Solmax textured HDPE		
Geosynthetic ID: BOTTOM	Geocomposite: Roll #131281010073 (TN270-2-8)		
Description: BOTTOM	Geocomposite: 270 mil Skaps biplanar double-sided nonwoven		

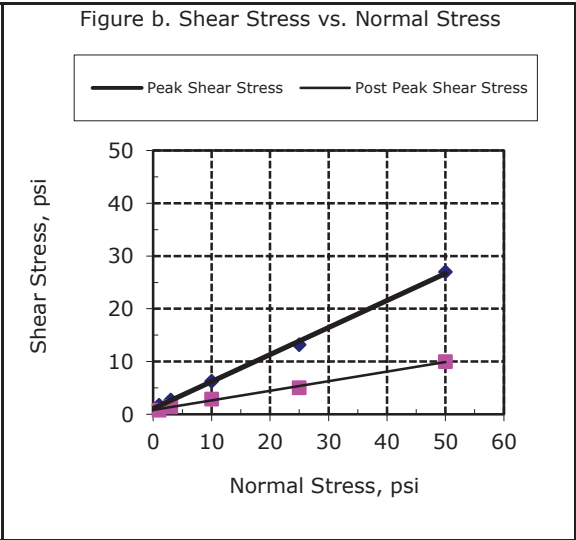
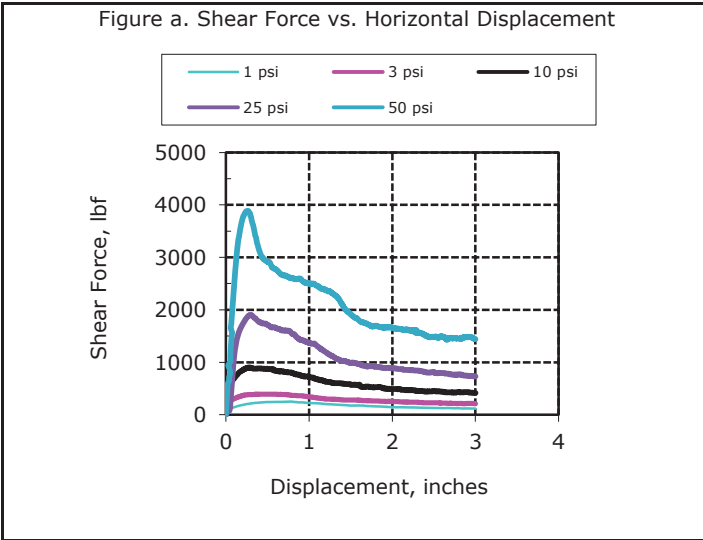
Interface Shear Test Series by ASTM D5321

Test Series #:	3
Test Profile - Top to Bottom:	steel plate / GEOMEMBRANE / GEOCOMPOSITE / textured gripping surface
Geosynthetic Preparation:	Test set-up saturated at normal load for 4 hour prior to shear.
Test Equipment:	Top box = 12 in x 12 in; Bottom box = 12 in x 12 in; Load cells and LVDTs connected to data acquisition system for shear force, normal load and horizontal displacement readings; Flat plate clamping device; surface area = 144 in ²
Horizontal Displacement, in/min:	0.04
Test Condition:	inundated

Parameter	Point 1	Point 2	Point 3	Point 4	Point 5	Point 6
Normal Compressive Stress, psi	1	3	10	25	50	---
Peak Shear Stress, psi	1.7	2.7	6.3	13	27	---
Post Peak Shear Stress, psi	0.8	1.5	2.9	5.1	10.0	---
Peak Secant Friction Angle, °	60.2	42.4	32.1	27.8	28.4	---
Post-Peak Secant Friction Angle, °	38.9	26.1	16.2	11.5	11.3	---
Pre-Test: Average Asperity, mils	28.4	27.9	29.3	31.0	28.0	---

NOTES: Asperity measurements taken on side of membrane involved in shear plane in general accordance with ASTM D7466. Six measurements taken before test.

Peak Friction Angle:	27.1	degrees
Peak Adhesion:	1.1	psi
Post Peak Friction Angle:	10.3	degrees
Post Peak Adhesion:	0.8	psi









Notes: These results apply only to the sample tested for the specific test conditions. The test procedures employed follow accepted industry practice and the indicated test method. GeoTesting Express has no specific knowledge as to conditioning, origin, sampling procedure or intended use of the material. Values for cohesion and friction angle determined from best-fit straight line to the data for the specific test conditions. Actual strength parameters may vary and should be determined by an engineer for site-specific conditions.

Client:	Casella Waste Systems, Inc.		
Project Name:	NCES Stage VI Ph II & CAP4 Projects		
Project Location:	Bethlehem, NH		
GTX #:	317026		
Start Date:	05/23/23	Tested By:	est
End Date:	05/29/23	Checked By:	dln
Geosynthetic ID: TOP	Geomembrane: Roll #0102-209818		
Description: TOP	Geomembrane: Black, 60 mil Solmax textured HDPE		
Geosynthetic ID: BOTTOM	Geocomposite: Roll #131281010073 (TN270-2-8)		
Description: BOTTOM	Geocomposite: 270 mil Skaps biplanar double-sided nonwoven		

Interface Shear Test Series by ASTM D5321

Post-Shear Photos

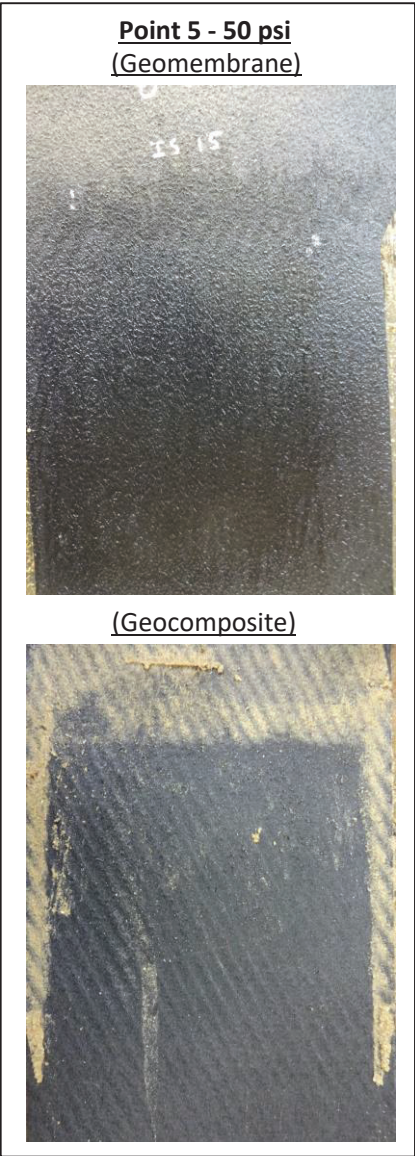
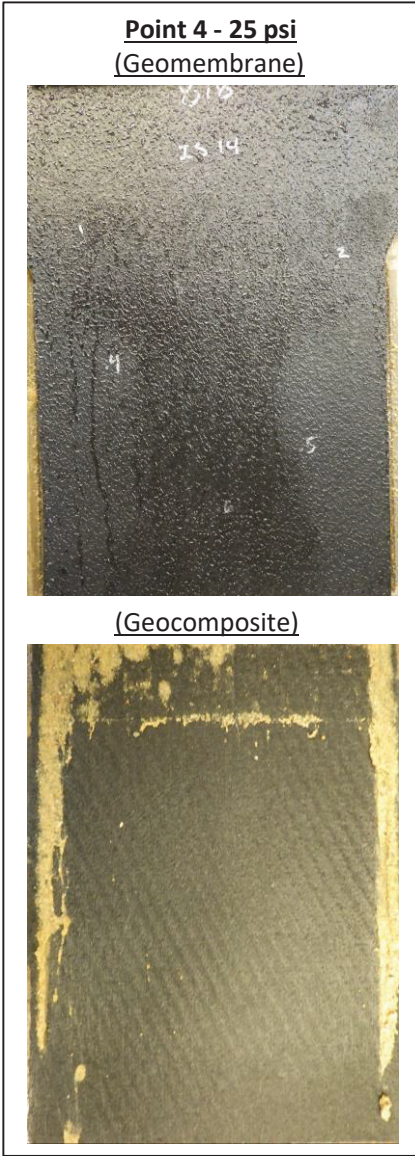
<p>Point 1 - 1 psi (Geomembrane)</p>  <p>(Geocomposite)</p> 	<p>Point 2 - 3 psi (Geomembrane)</p>  <p>(Geocomposite)</p> 	<p>Point 3 - 10 psi (Geomembrane)</p>  <p>(Geocomposite)</p> 
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Notes: These results apply only to the sample tested for the specific test conditions. The test procedures employed follow accepted industry practice and the indicated test method. GeoTesting Express has no specific knowledge as to conditioning, origin, sampling procedure or intended use of the material. Values for cohesion and friction angle determined from best-fit straight line to the data for the specific test conditions. Actual strength parameters may vary and should be determined by an engineer for site-specific conditions.

Client:	Casella Waste Systems, Inc.		
Project Name:	NCES Stage VI Ph II & CAP4 Projects		
Project Location:	Bethlehem, NH		
GTX #:	317026		
Start Date:	05/23/23	Tested By:	est
End Date:	05/29/23	Checked By:	dln
Geosynthetic ID: TOP	Geomembrane: Roll #0102-209818		
Description: TOP	Geomembrane: Black, 60 mil Solmax textured HDPE		
Geosynthetic ID: BOTTOM	Geocomposite: Roll #131281010073 (TN270-2-8)		
Description: BOTTOM	Geocomposite: 270 mil Skaps biplanar double-sided nonwoven		

Interface Shear Test Series by ASTM D5321

Post-Shear Photos



Notes: These results apply only to the sample tested for the specific test conditions. The test procedures employed follow accepted industry practice and the indicated test method. GeoTesting Express has no specific knowledge as to conditioning, origin, sampling procedure or intended use of the material. Values for cohesion and friction angle determined from best-fit straight line to the data for the specific test conditions. Actual strength parameters may vary and should be determined by an engineer for site-specific conditions.



Client:	Casella Waste Systems, Inc.		
Project Name:	NCES Stage VI Ph II & CAP4 Projects		
Project Location:	Bethlehem, NH		
GTX #:	317026		
Start Date:	05/23/23	Tested By:	est
End Date:	05/29/23	Checked By:	dln
Geosynthetic ID: TOP	Geomembrane: Roll #0102-209818		
Description: TOP	Geomembrane: Black, 60 mil Solmax textured HDPE		
Geosynthetic ID: BOTTOM	Geocomposite: Roll #131281010073 (TN270-2-8)		
Description: BOTTOM	Geocomposite: 270 mil Skaps biplanar double-sided nonwoven		

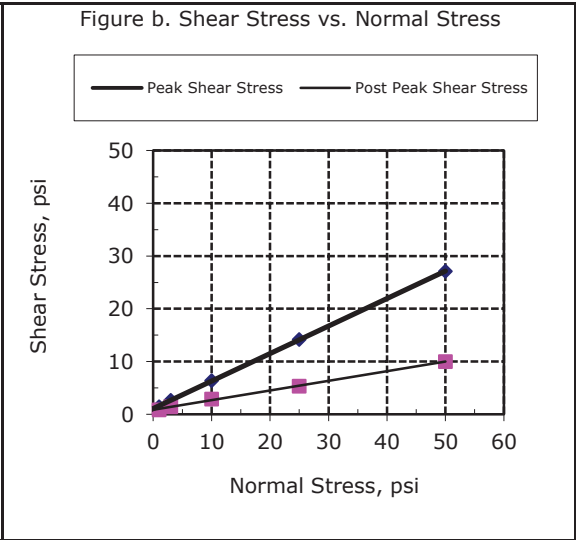
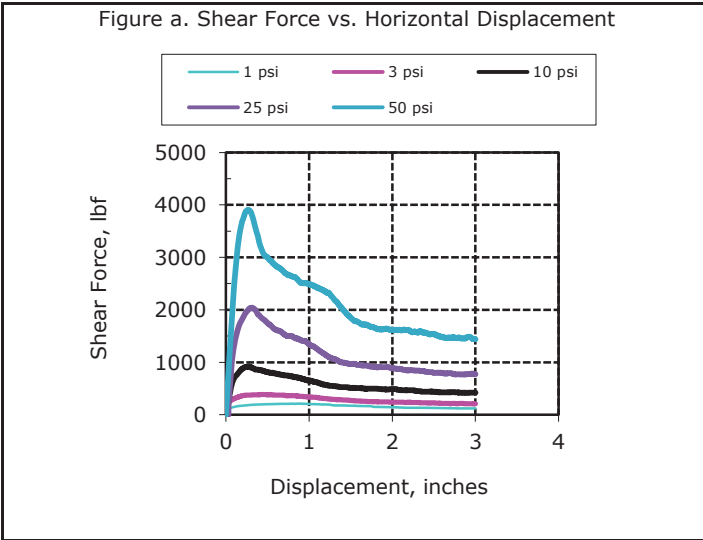
Interface Shear Test Series by ASTM D5321

Test Series #:	4
Test Profile - Top to Bottom:	steel plate / GEOMEMBRANE / GEOCOMPOSITE / textured gripping surface
Geosynthetic Preparation:	Test set-up saturated at normal load for 4 hour prior to shear.
Test Equipment:	Top box = 12 in x 12 in; Bottom box = 12 in x 12 in; Load cells and LVDTs connected to data acquisition system for shear force, normal load and horizontal displacement readings; Flat plate clamping device; surface area = 144 in ²
Horizontal Displacement, in/min:	0.04 Test Condition: inundated

Parameter	Point 1	Point 2	Point 3	Point 4	Point 5	Point 6
Normal Compressive Stress, psi	1	3	10	25	50	---
Peak Shear Stress, psi	1.5	2.7	6.4	14	27	---
Post Peak Shear Stress, psi	0.8	1.4	2.9	5.4	10.0	---
Peak Secant Friction Angle, °	55.8	41.8	32.5	29.6	28.5	---
Post-Peak Secant Friction Angle, °	40.3	25.7	16.2	12.1	11.3	---
Pre-Test: Average Asperity, mils	23.2	27.3	27.6	32.1	32.2	---

NOTES: Asperity measurements taken on side of membrane involved in shear plane in general accordance with ASTM D7466. Six measurements taken before test.

Peak Friction Angle:	27.5	degrees
Peak Adhesion:	1.1	psi
Post Peak Friction Angle:	10.4	degrees
Post Peak Adhesion:	0.9	psi





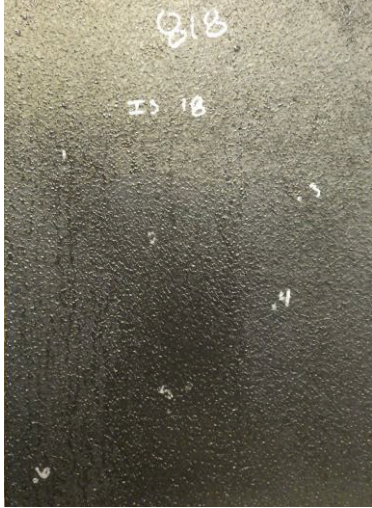
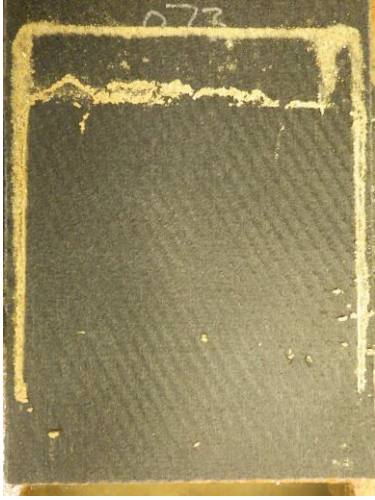


Notes: These results apply only to the sample tested for the specific test conditions. The test procedures employed follow accepted industry practice and the indicated test method. GeoTesting Express has no specific knowledge as to conditioning, origin, sampling procedure or intended use of the material. Values for cohesion and friction angle determined from best-fit straight line to the data for the specific test conditions. Actual strength parameters may vary and should be determined by an engineer for site-specific conditions.

Client:	Casella Waste Systems, Inc.	
Project Name:	NCES Stage VI Ph II & CAP4 Projects	
Project Location:	Bethlehem, NH	
GTX #:	317026	
Start Date:	05/23/23	Tested By: est
End Date:	05/29/23	Checked By: dln
Geosynthetic ID: TOP	Geomembrane: Roll #0102-209818	
Description: TOP	Geomembrane: Black, 60 mil Solmax textured HDPE	
Geosynthetic ID: BOTTOM	Geocomposite: Roll #131281010073 (TN270-2-8)	
Description: BOTTOM	Geocomposite: 270 mil Skaps biplanar double-sided nonwoven	

Interface Shear Test Series by ASTM D5321

Post-Shear Photos


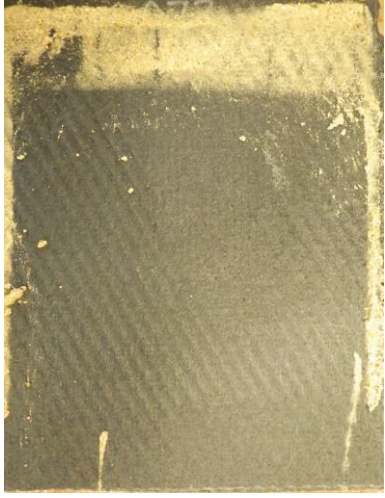
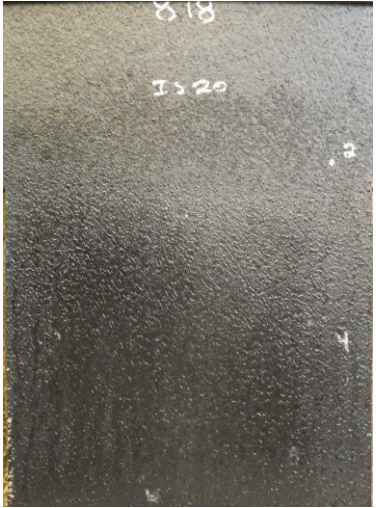

<p>Point 1 - 1 psi (Geomembrane)</p>  <p>(Geocomposite)</p> 	<p>Point 2 - 3 psi (Geomembrane)</p>  <p>(Geocomposite)</p> 	<p>Point 3 - 10 psi (Geomembrane)</p>  <p>(Geocomposite)</p> 
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Notes: These results apply only to the sample tested for the specific test conditions. The test procedures employed follow accepted industry practice and the indicated test method. GeoTesting Express has no specific knowledge as to conditioning, origin, sampling procedure or intended use of the material. Values for cohesion and friction angle determined from best-fit straight line to the data for the specific test conditions. Actual strength parameters may vary and should be determined by an engineer for site-specific conditions.

Client:	Casella Waste Systems, Inc.		
Project Name:	NCES Stage VI Ph II & CAP4 Projects		
Project Location:	Bethlehem, NH		
GTX #:	317026		
Start Date:	05/23/23	Tested By:	est
End Date:	05/29/23	Checked By:	dln
Geosynthetic ID: TOP	Geomembrane: Roll #0102-209818		
Description: TOP	Geomembrane: Black, 60 mil Solmax textured HDPE		
Geosynthetic ID: BOTTOM	Geocomposite: Roll #131281010073 (TN270-2-8)		
Description: BOTTOM	Geocomposite: 270 mil Skaps biplanar double-sided nonwoven		

Interface Shear Test Series by ASTM D5321

Post-Shear Photos

<p><u>Point 4 - 25 psi</u> <u>(Geomembrane)</u></p>  <p style="text-align: center;"><u>(Geocomposite)</u></p> 	<p><u>Point 5 - 50 psi</u> <u>(Geomembrane)</u></p>  <p style="text-align: center;"><u>(Geocomposite)</u></p> 
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Notes: These results apply only to the sample tested for the specific test conditions. The test procedures employed follow accepted industry practice and the indicated test method. GeoTesting Express has no specific knowledge as to conditioning, origin, sampling procedure or intended use of the material. Values for cohesion and friction angle determined from best-fit straight line to the data for the specific test conditions. Actual strength parameters may vary and should be determined by an engineer for site-specific conditions.

Liner/GCL

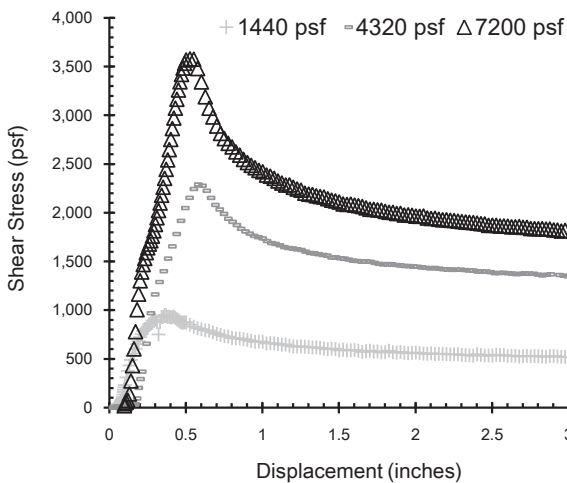
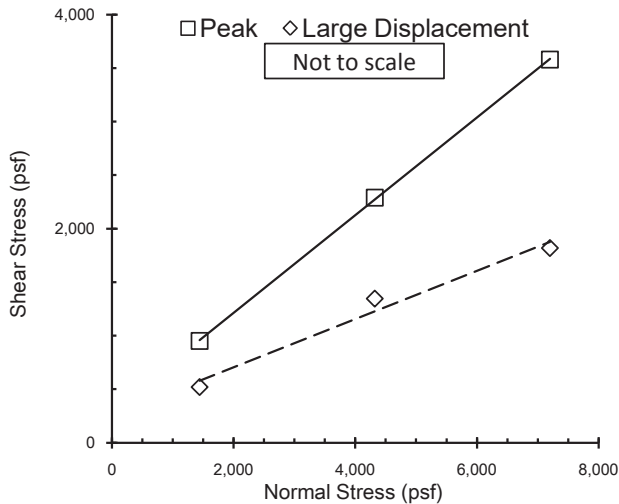


Interface Shear Strength of Geosynthetic Clay Liner by Direct Shear (ASTM D6243)

Client: CMA Engineers
 Project: Ecomaine Phase 2 East-A

TRI Log #: 39604-5
 Richard S. Lacey, P.E. 9/10/2018
 Analysis & Quality Review/Date

GCL SRNWL (257930) - nonwoven side down vs.
 Solmax 60mil Textured HDPE 1-139437



Test Results, Linear Regression			
Mohr-Coulomb Parameters		Peak	Large Displacement
Friction Angle	Degrees	24.5	12.7
Y-intercept or Adhesion	psf	302	255
Minimum Secant Angle	Degrees	26.4	14.2

Note - Large Displacement Values Reported for 3.0 inches of Displacement

Test Conditions		
Upper Box	GCL SRNWL (257930) - nonwoven side down	
Lower Box	Solmax 60mil Textured HDPE 1-139437	
Conditioning	Wet -1 psi applied and Interface flooded for a minimum of 48 hours then load increased to test value for 24 hours prior to shearing.	
Shearing Rate	inches/minute	0.004

Test Notes

Shearing occurred at the interface at all stresses.

Specimen No.	-	1	2	3	
Normal Stress	psf	1,440	4,320	7,200	
Box Edge Dimension	in	12	12	12	
Equivalent Bearing Slide Resist. Correction	psf	22	49	76	
Peak	Shear Stress	psf	951	2,290	3,579
	Secant Angle	deg.	33.4	27.9	26.4
Large Displacement	Shear Stress	psf	520	1,347	1,819
	Secant Angle	deg.	19.9	17.3	14.2
Asperity Height, Avg. of 5 Meas.	mils	23	23	21	

Internal GCL

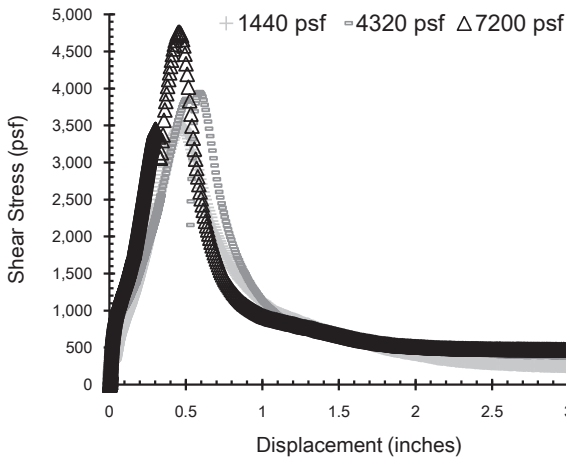
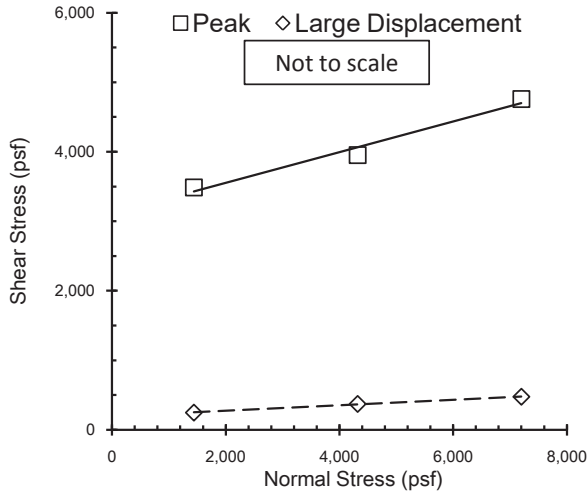


Internal Shear Strength of Geosynthetic Clay Liner by Direct Shear (ASTM D6243)

Client: CMA Engineers
 Project: Ecomaine Phase 2 East-A

TRI Log #: 39604-3
 Richard S. Lacey, P.E. 8/6/2018
 Analysis & Quality Review/Date

GCL SRNWL (257527)



Test Results, Linear Regression			
Mohr-Coulomb Parameters		Peak	Large Displacement
Friction Angle	Degrees	12.5	2.3
Y-intercept or Adhesion	psf	3,111	193
Minimum Secant Angle	Degrees	33.5	3.8

Note - Large Displacement Values Reported for 3.0 inches of Displacement

Test Conditions		
Upper Box	GCL SRNWL (257527) Prehydrated under 1 psi for 48 hours.	
Lower Box		
Conditioning	Wet - 1 [si Loading applied and Interface flooded for a minimum of 23 hours prior to shear.	
Shearing Rate	inches/minute	0.004

Test Notes

The GCL sheared internally at all stresses.

Specimen No.		-	1	2	3
Normal Stress	psf		1,440	4,320	7,200
Box Edge Dimension	in		12	12	12
Equivalent Bearing Slide Resist. Correction	psf		22	49	76
Peak	Shear Stress	psf	3,486	3,952	4,759
	Secant Angle	deg.	67.6	42.5	33.5
Large Displacement	Shear Stress	psf	246	371	475
	Secant Angle	deg.	9.7	4.9	3.8

Liner Screened Till



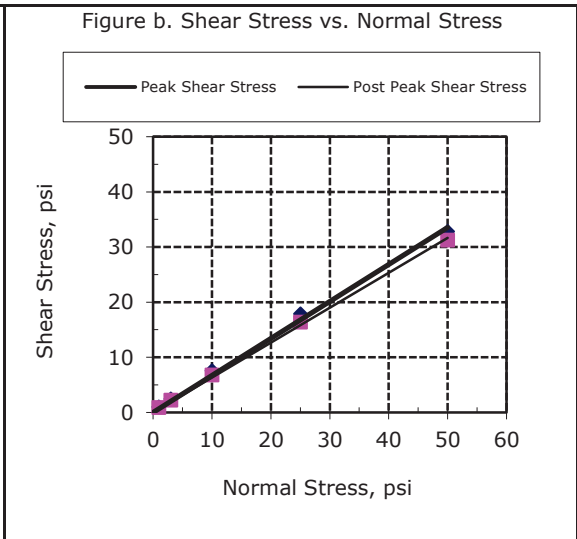
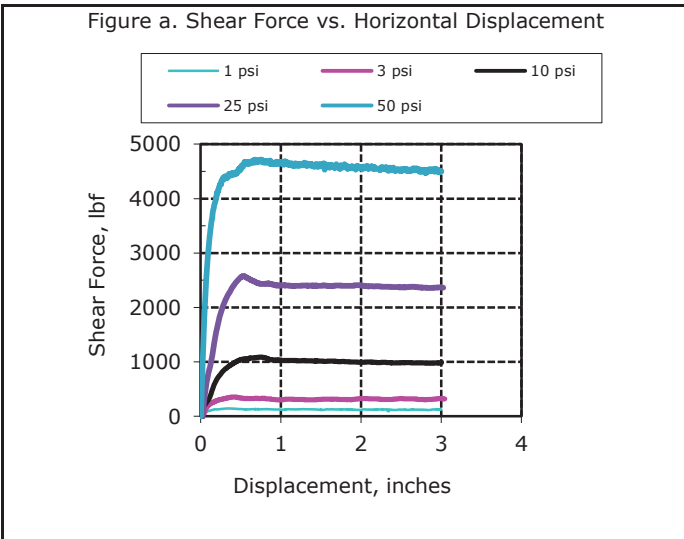
Client:	Casella Waste Systems, Inc.		
Project Name:	NCES Stage VI Ph II & CAP4 Projects		
Project Location:	Bethlehem, NH		
GTX #:	317026		
Start Date:	05/31/23	Tested By:	est
End Date:	06/02/23	Checked By:	dln
Soil ID:	Screened Till		
Soil Description:	Moist, light olive brown silt		
Geomembrane ID:	Roll #0102-209825		
Geomembrane Description:	Black, 60 mil Solmax textured HDPE		

Interface Shear Test Series by ASTM D5321

Test Series #:	5		
Test Profile - Top to Bottom:	steel plate / SOIL / GEOMEMBRANE / textured gripping surface		
Soil Preparation:	Target Compaction: 95% of the maximum dry density at the optimum moisture content (+2%). Values specified by client.		
Compaction Characteristics:	Maximum Dry Density	101.7 pcf	
	Optimum Moisture Content	17.8 %	
	Compaction Test Method	D1557	
Geosynthetic Preparation:	Test set-up saturated at normal load for 24 hours prior to shear		
Test Equipment:	Top box = 12 in x 12 in; Bottom box = 12 in x 12 in; Load cells and LVDTs connected to data acquisition system for shear force, normal load and horizontal displacement readings; Flat plate clamping device; surface area = 144 in ²		
Horizontal Displacement, in/min:	0.04	Test Condition:	inundated

Parameter	Point 1	Point 2	Point 3	Point 4	Point 5	Point 6
Initial Moisture Content, %	19.4	19.4	19.5	19.5	19.6	---
Initial Dry Density, pcf	96.6	96.6	96.6	96.5	96.4	---
Percent Compaction, %	95.0	95.0	95.0	94.9	94.8	---
Final Moisture Content, %	31.4	30.6	29.9	29.1	27.5	---
Normal Compressive Stress, psi	1	3	10	25	50	---
Peak Shear Stress, psi	1.0	2.5	7.5	18	33	---
Post Peak Shear Stress, psi	0.9	2.2	6.8	16	31	---
Peak Secant Friction Angle, °	44.9	39.4	37.0	35.6	33.2	---
Post-Peak Secant Friction Angle, °	41.0	36.5	34.2	33.2	32.0	---
Pre-Test: Average Asperity, mils	26.4	29.0	30.6	27.9	24.2	---

NOTES: Asperity measurements taken on side of membrane involved in shear plane in general accordance with ASTM D7466. Six measurements taken before test.	Peak Friction Angle:	33.0	degrees
	Peak Adhesion:	0.8	psi
	Post Peak Friction Angle:	31.8	degrees
	Post Peak Adhesion:	0.5	psi

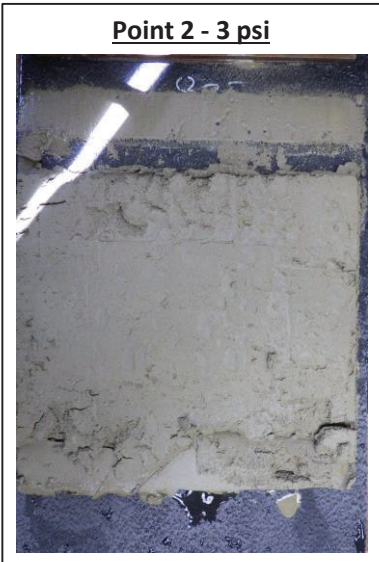


Notes: These results apply only to the sample tested for the specific test conditions. The test procedures employed follow accepted industry practice and the indicated test method. GeoTesting Express has no specific knowledge as to conditioning, origin, sampling procedure or intended use of the material. Values for cohesion and friction angle determined from best-fit straight line to the data for the specific test conditions. Actual strength parameters may vary and should be determined by an engineer for site-specific conditions.

Client:	Casella Waste Systems, Inc.		
Project Name:	NCES Stage VI Ph II & CAP4 Projects		
Project Location:	Bethlehem, NH		
GTX #:	317026		
Start Date:	05/31/23	Tested By:	est
End Date:	06/02/23	Checked By:	dln
Soil ID:	Screened Till		
Soil Description:	Moist, light olive brown silt		
Geomembrane ID:	Roll #0102-209825		
Geomembrane Description:	Black, 60 mil Solmax textured HDPE		

Interface Shear Test Series by ASTM D5321

Post-Shear Photos



Notes: These results apply only to the sample tested for the specific test conditions. The test procedures employed follow accepted industry practice and the indicated test method. GeoTesting Express has no specific knowledge as to conditioning, origin, sampling procedure or intended use of the material. Values for cohesion and friction angle determined from best-fit straight line to the data for the specific test conditions. Actual strength parameters may vary and should be determined by an engineer for site-specific conditions.



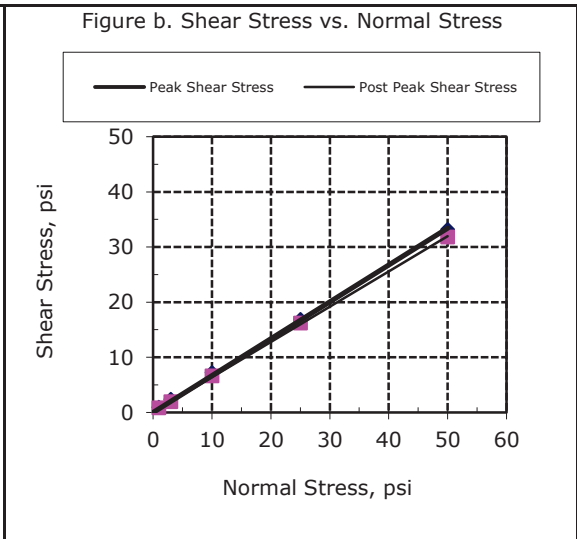
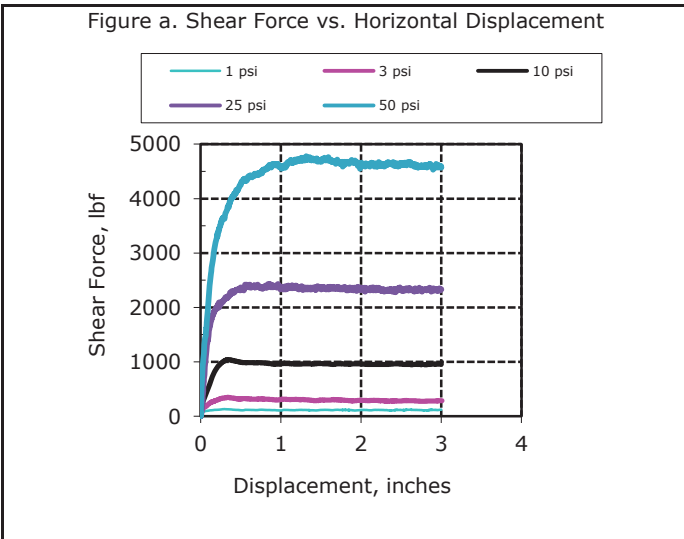
Client:	Casella Waste Systems, Inc.		
Project Name:	NCES Stage VI Ph II & CAP4 Projects		
Project Location:	Bethlehem, NH		
GTX #:	317026		
Start Date:	05/31/23	Tested By:	est
End Date:	06/02/23	Checked By:	dln
Soil ID:	Screened Till		
Soil Description:	Moist, light olive brown silt		
Geomembrane ID:	Roll #0102-209825		
Geomembrane Description:	Black, 60 mil Solmax textured HDPE		

Interface Shear Test Series by ASTM D5321

Test Series #:	6		
Test Profile - Top to Bottom:	steel plate / SOIL / GEOMEMBRANE / textured gripping surface		
Soil Preparation:	Target Compaction: 95% of the maximum dry density at the optimum moisture content (+2%). Values specified by client.		
Compaction Characteristics:	Maximum Dry Density	101.7 pcf	
	Optimum Moisture Content	17.8 %	
	Compaction Test Method	D1557	
Geosynthetic Preparation:	Test set-up saturated at normal load for 24 hours prior to shear		
Test Equipment:	Top box = 12 in x 12 in; Bottom box = 12 in x 12 in; Load cells and LVDTs connected to data acquisition system for shear force, normal load and horizontal displacement readings; Flat plate clamping device; surface area = 144 in ²		
Horizontal Displacement, in/min:	0.04	Test Condition:	inundated

Parameter	Point 1	Point 2	Point 3	Point 4	Point 5	Point 6
Initial Moisture Content, %	19.9	19.9	19.8	19.8	19.8	---
Initial Dry Density, pcf	96.6	96.6	96.6	96.7	96.6	---
Percent Compaction, %	95.0	95.0	95.0	95.0	95.0	---
Final Moisture Content, %	31.7	30.1	28.9	28.3	27.8	---
Normal Compressive Stress, psi	1	3	10	25	50	---
Peak Shear Stress, psi	0.9	2.4	7.2	17	33	---
Post Peak Shear Stress, psi	0.8	2.0	6.6	16	32	---
Peak Secant Friction Angle, °	42.2	38.7	35.9	34.0	33.6	---
Post-Peak Secant Friction Angle, °	39.8	33.1	33.6	32.9	32.5	---
Pre-Test: Average Asperity, mils	28.4	23.4	28.8	29.4	26.2	---

NOTES: Asperity measurements taken on side of membrane involved in shear plane in general accordance with ASTM D7466. Six measurements taken before test.	Peak Friction Angle:	33.3	degrees
	Peak Adhesion:	0.4	psi
	Post Peak Friction Angle:	32.4	degrees
	Post Peak Adhesion:	0.2	psi



Notes: These results apply only to the sample tested for the specific test conditions. The test procedures employed follow accepted industry practice and the indicated test method. GeoTesting Express has no specific knowledge as to conditioning, origin, sampling procedure or intended use of the material. Values for cohesion and friction angle determined from best-fit straight line to the data for the specific test conditions. Actual strength parameters may vary and should be determined by an engineer for site-specific conditions.

Client:	Casella Waste Systems, Inc.	
Project Name:	NCES Stage VI Ph II & CAP4 Projects	
Project Location:	Bethlehem, NH	
GTX #:	317026	
Start Date:	05/31/23	Tested By: est
End Date:	06/02/23	Checked By: dln
Soil ID:	Screened Till	
Soil Description:	Moist, light olive brown silt	
Geomembrane ID:	Roll #0102-209825	
Geomembrane Description:	Black, 60 mil Solmax textured HDPE	

Interface Shear Test Series by ASTM D5321

Post-Shear Photos



Notes: These results apply only to the sample tested for the specific test conditions. The test procedures employed follow accepted industry practice and the indicated test method. GeoTesting Express has no specific knowledge as to conditioning, origin, sampling procedure or intended use of the material. Values for cohesion and friction angle determined from best-fit straight line to the data for the specific test conditions. Actual strength parameters may vary and should be determined by an engineer for site-specific conditions.

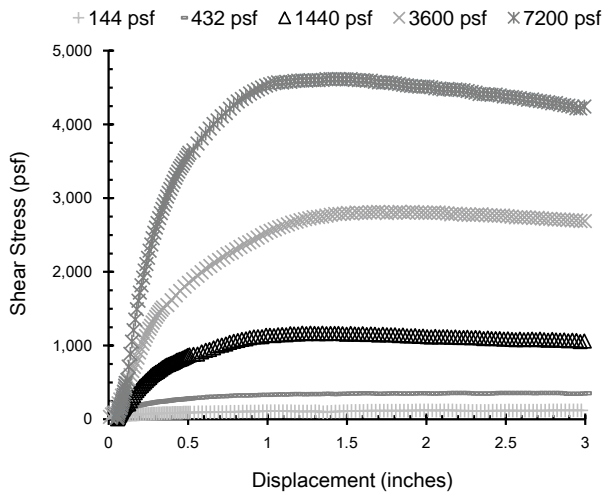
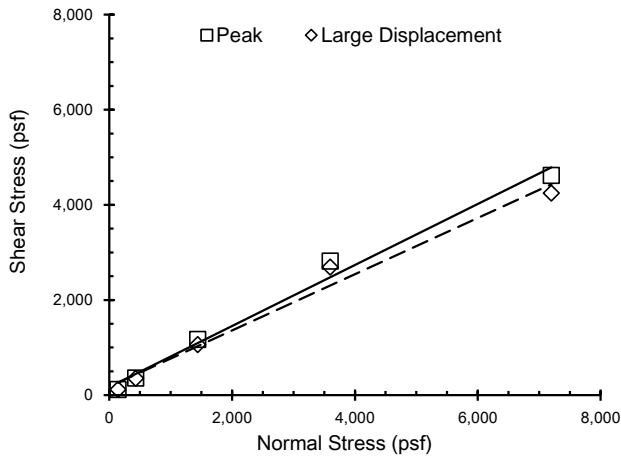
Shear Strength of Soil-Geosynthetic Interface by Direct Shear (ASTM D5321)

Client: CMA Engineers
 Project: NCES Stage VI Phase I LF Expansion

TRI Log #: 57591-2
 Richard S. Lacey, P.E. 9/10/2020

Analysis & Quality Review/Date

Screened Till vs. Skaps TXGM 60mil HDPE (3111004469)



Test Results, Linear Regression			
Mohr-Coulomb Parameters		Peak	Large Displacement
Friction Angle	Degrees	32.7	30.6
Y-intercept or Adhesion	psf	170	177
Minimum Secant Angle	Degrees	32.7	30.5

Note - Large Displacement Values Reported for 3.0 inches of Displacement

Test Conditions	
Upper Box	Screened Till $\omega = 13.4\%$ $\gamma_d = 110.0$ pcf
Lower Box	Skaps TXGM 60mil HDPE (3111004469)
Conditioning	Wet - 144 psf Loading applied and Interface flooded for a minimum of 48 hours, then shock-loaded to test stress which was held for a minimum of 24 hours prior to shear.
Shearing Rate	inches/minute 0.04

Test Notes

Shearing occurred at the interface at all stresses.

Specimen No.		-	1	2	3	4	5
Normal Stress	psf		144	432	1,440	3,600	7,200
Box Edge Dimension	in		12	12	12	12	12
Bearing Slide Resistance	lbs		9	12	22	42	76
Peak	Shear Stress	psf	119	357	1,168	2,813	4,615
	Secant Angle	deg.	39.5	39.6	39.0	38.0	32.7
Large Displacement	Shear Stress	psf	118	352	1,061	2,689	4,243
	Secant Angle	deg.	39.3	39.2	36.4	36.8	30.5
Asperity Height, Avg. of 5 Meas.	mils		32	32	33	32	34



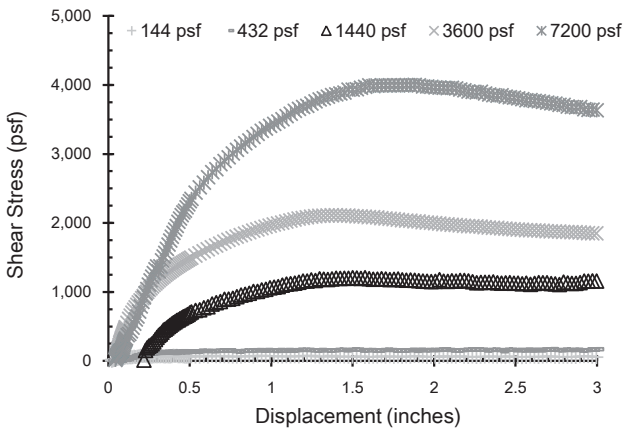
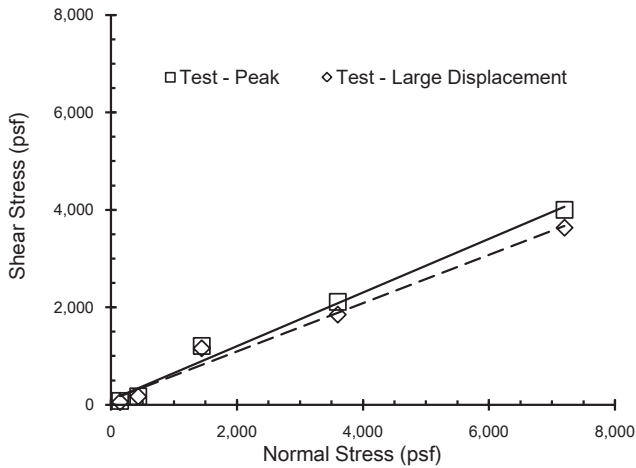
Shear Strength of Soil-Geosynthetic Interface by Direct Shear (ASTM D5321)

Client: Casella Waste Systems
 Project: North Country Environmental Services

TRI Log #: 26956-1
 Jeffrey A. Kuhn, Ph.D., P.E., 3/29/2017

Analysis & Quality Review/Date

Screened Till vs.
 Agru 60 mil HDPE MSGM DS (G17B000597)



Test Results, Linear Regression			
Mohr-Coulomb Parameters		Peak	Large Displacement
Friction Angle	Degrees	28.8	26.4
Y-intercept or Adhesion	psf	104	103
Minimum Secant Angle	Degrees	21.7	20.8

Note - Large Displacement Values Reported for 3.0 inches of Displacement

Test Conditions		
Upper Box	Screened Till $\omega = 11.7\%$, $\gamma_d = 114.4$ pcf	
Lower Box	Agru 60 mil HDPE MSGM DS (G17B000597)	
Conditioning	Dry - Loading applied for a minimum of 16 hours prior to shear.	
Shearing Rate	inches/minute	0.04

Test Notes

Shearing occurred at the interface at all stresses.

Specimen No.	-	1	2	3	4	5	
Normal Stress	psf	144	432	1,440	3,600	7,200	
Box Edge Dimension	in	12	12	12	12	12	
Bearing Slide Resistance	lbs	9	12	22	42	76	
Peak	Shear Stress	psf	78	172	1,207	2,112	4,000
	Secant Angle	deg.	28.5	21.7	40.0	30.4	29.1
Large Displacement	Shear Stress	psf	55	170	1,158	1,850	3,633
	Secant Angle	deg.	20.8	21.5	38.8	27.2	26.8
Asperity Height, Avg. of 5 Meas.	mils	25	26	25	25	25	



Interface Friction Test Report

Client: **CMA Engineers**

TRI Log#: E2388-62-10

John M. Allen, P.E., 07/08/2015

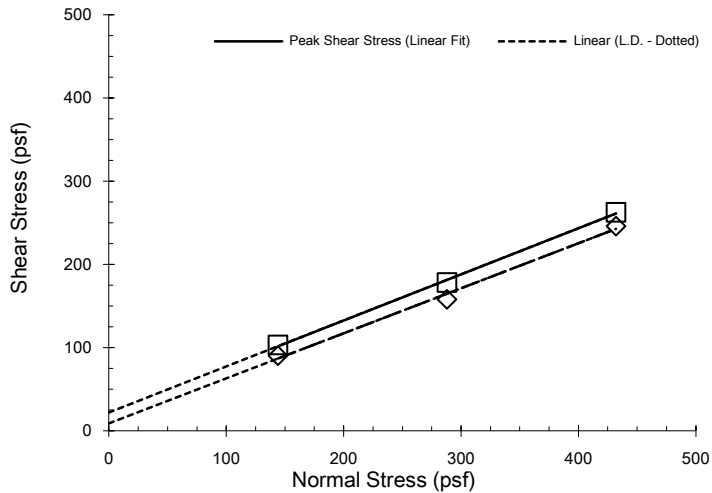
Project: **North Country - Stage V Expansion**

Test Method: ASTM D5321

Quality Review/Date

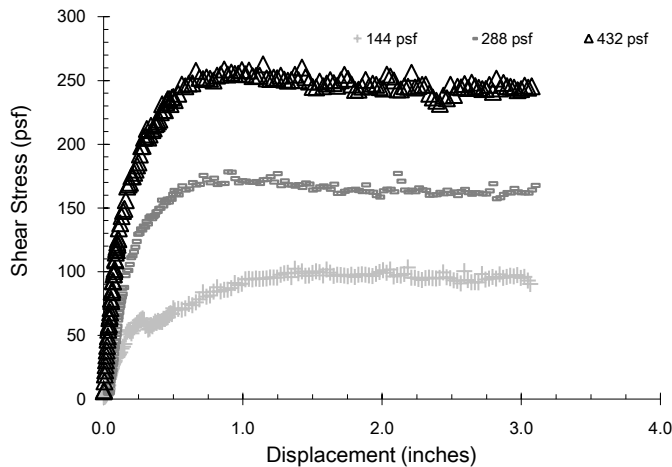
Date: 07-07-2015 to 07-08-2015

Tested Interface: Screened Till vs. Agru 60 mil HDPE Microspike Geomembrane (G15F212027)



Test Results		
	Peak	Large Displacement (@ 3.0 in.)
Friction Angle (degrees):	29.0	28.4
Y-intercept or Adhesion (psf):	22	9

Shearing occurred at the interface.



Test Conditions	
Upper Box &	Screened Till remolded to 129.8 pcf at 8.0% moisture content
Lower Box	Agru 60 mil HDPE Microspike geomembrane (shiny side)
Box Dimensions:	12"x12"x4"
Interface Condition:	Interface soaked and loading applied for a minimum of 1 hour prior to shear.
Test Condition:	Wet
Shearing Rate:	0.04 inches/minute

Test Data			
Specimen No.	1	2	3
Bearing Slide Resistance (lbs)	3	3	3
Normal Stress (psf)	144	288	432
Corrected Peak Shear Stress (psf)	103	178	263
Corrected Large Displacement Shear Stress (psf)	90	158	246
Peak Secant Angle (degrees)	35.6	31.8	31.3
Large Displacement Secant Angle (degrees)	32.1	28.7	29.7
Asperity (mils)	27.2	28.0	27.0

The testing herein is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

Cover System Interfaces

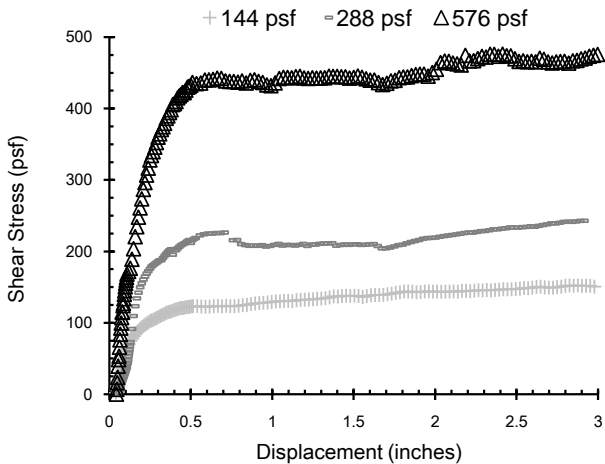
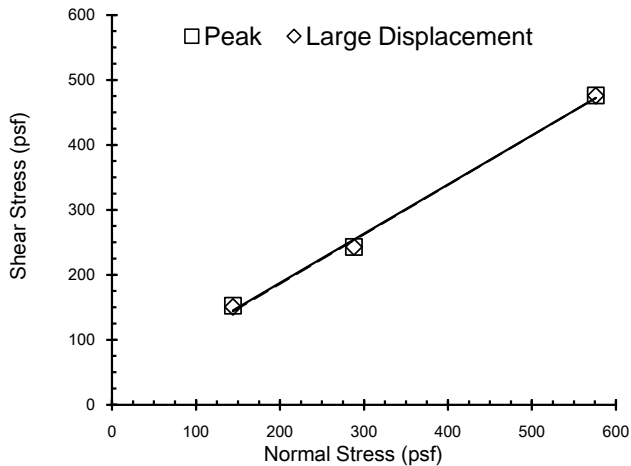


Shear Strength of Soil-Geosynthetic Interface by Direct Shear (ASTM D5321)

Client: CMA Engineers
 Project: Casella - NCES WEst Side Closure, Bethlehem NH

TRI Log #: 50163-2
 Richard S. Lacey, P.E. 9/25/2019
 Analysis & Quality Review/Date

Sand vs. Skaps DSGC TN 330-2-8



Test Results, Linear Regression			
Mohr-Coulomb Parameters		Peak	Large Displacement
Friction Angle	Degrees	37.2	37.3
Y-intercept or Adhesion	psf	36	34
Minimum Secant Angle	Degrees	39.6	39.6

Note - Large Displacement Values Reported for 3.0 inches of Displacement

Test Conditions	
Upper Box	Sand $\omega = 13.7\%$ $\gamma_d = 105.7$ pcf
Lower Box	Skaps DSGC TN 330-2-8
Conditioning	Wet - Loading applied and Interface flooded for a minimum of 1 hour prior to shear.
Shearing Rate	inches/minute 0.04

Test Notes

Shearing occurred at the interface at all stresses.

Specimen No.	-	1	2	3	
Normal Stress	psf	144	288	576	
Box Edge Dimension	in	12	12	12	
Bearing Slide Resistance	lbs	9	11	13	
Peak	Shear Stress	psf	152	243	476
	Secant Angle	deg.	46.6	40.1	39.6
Large Displacement	Shear Stress	psf	151	243	476
	Secant Angle	deg.	46.3	40.1	39.6

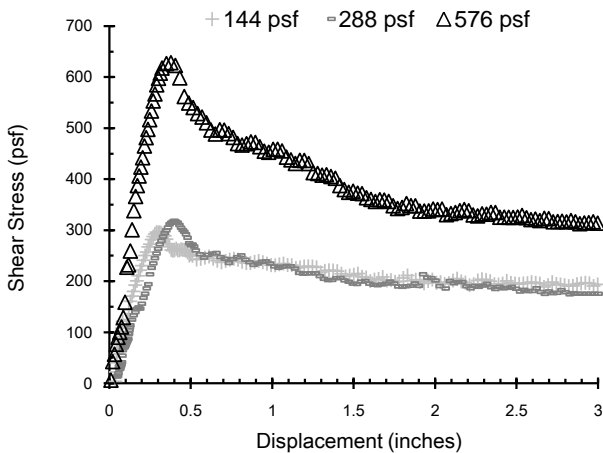
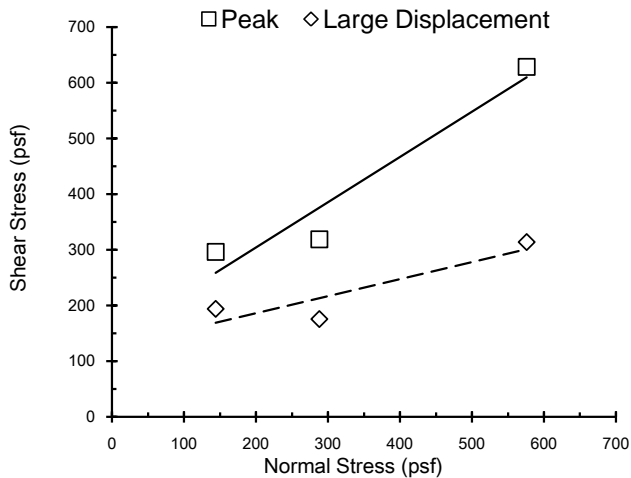


Shear Strength of Geosynthetic-Geosynthetic Interface by Direct Shear (ASTM D5321)

Client: CMA Engineers
 Project: Casella - NCES WEst Side Closure, Bethlehem NH

TRI Log #: 50163-1
 Richard S. Lacey, P.E. 9/20/2019
 Analysis & Quality Review/Date

Skaps DSGC TN 330-2-8 vs.
 Agru 40 mil LLDPE MSGM - Dull side up



Test Results, Linear Regression			
Mohr-Coulomb Parameters		Peak	Large Displacement
Friction Angle	Degrees	39.1	17.1
Y-intercept or Adhesion	psf	141	125
Minimum Secant Angle	Degrees	47.5	28.6

Note - Large Displacement Values Reported for 3.0 inches of Displacement

Test Conditions	
Upper Box	Skaps DSGC TN 330-2-8
Lower Box	Agru 40 mil LLDPE MSGM Dull side up
Conditioning	Wet - Loading applied and Interface flooded for a minimum of 1 hour prior to shear.
Shearing Rate	inches/minute 0.04

Test Notes

Shearing occurred at the interface at all stresses.

Specimen No.	-	1	2	3	
Normal Stress	psf	144	288	576	
Box Edge Dimension	in	12	12	12	
Bearing Slide Resistance	lbs	9	11	13	
Peak	Shear Stress	psf	296	319	628
	Secant Angle	deg.	64.1	47.9	47.5
Large Displacement	Shear Stress	psf	194	175	314
	Secant Angle	deg.	53.4	31.3	28.6
Asperity Height, Avg. of 5 Meas.	mils	25	25	24	

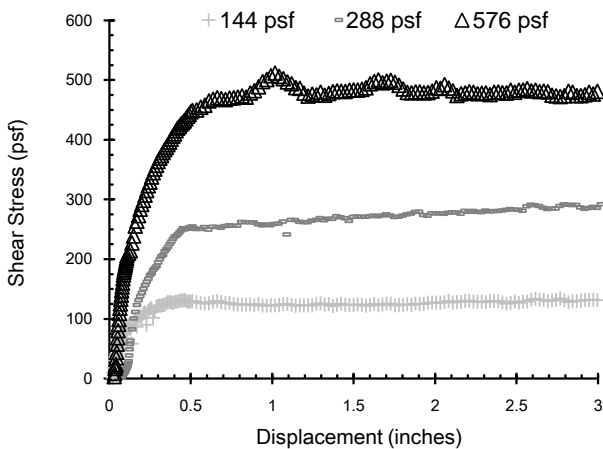
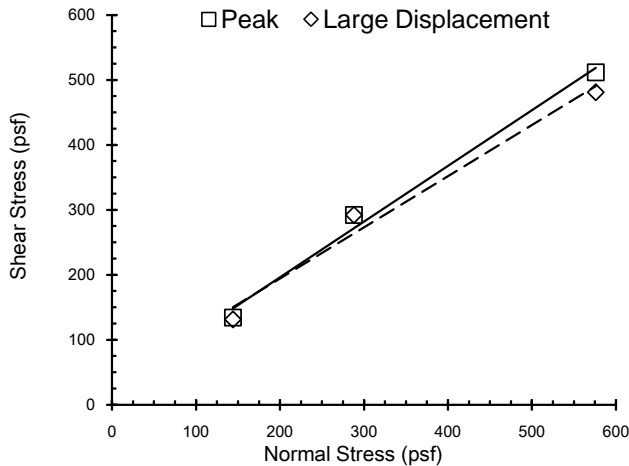


Shear Strength of Soil-Geosynthetic Interface by Direct Shear (ASTM D5321)

Client: CMA Engineers
 Project: Casella - NCES WEst Side Closure, Bethlehem NH

TRI Log #: 50163-3
 Richard S. Lacey, P.E. 9/26/2019
 Analysis & Quality Review/Date

Sand vs. Agru 40 mil LLDPE MSGM



Test Results, Linear Regression			
Mohr-Coulomb Parameters		Peak	Large Displacement
Friction Angle	Degrees	40.6	38.2
Y-intercept or Adhesion	psf	24	37
Minimum Secant Angle	Degrees	41.6	39.9

Note - Large Displacement Values Reported for 3.0 inches of Displacement

Test Conditions	
Upper Box	Sand $\omega = 13.7\% \quad \gamma_d = 105.7 \text{ pcf}$
Lower Box	Agru 40 mil LLDPE MSGM
Conditioning	Wet - Interface sprayed with water. Loading applied for a minimum of 1 hour prior to shear.
Shearing Rate	inches/minute 0.04

Test Notes

Shearing occurred at the interface at all stresses.

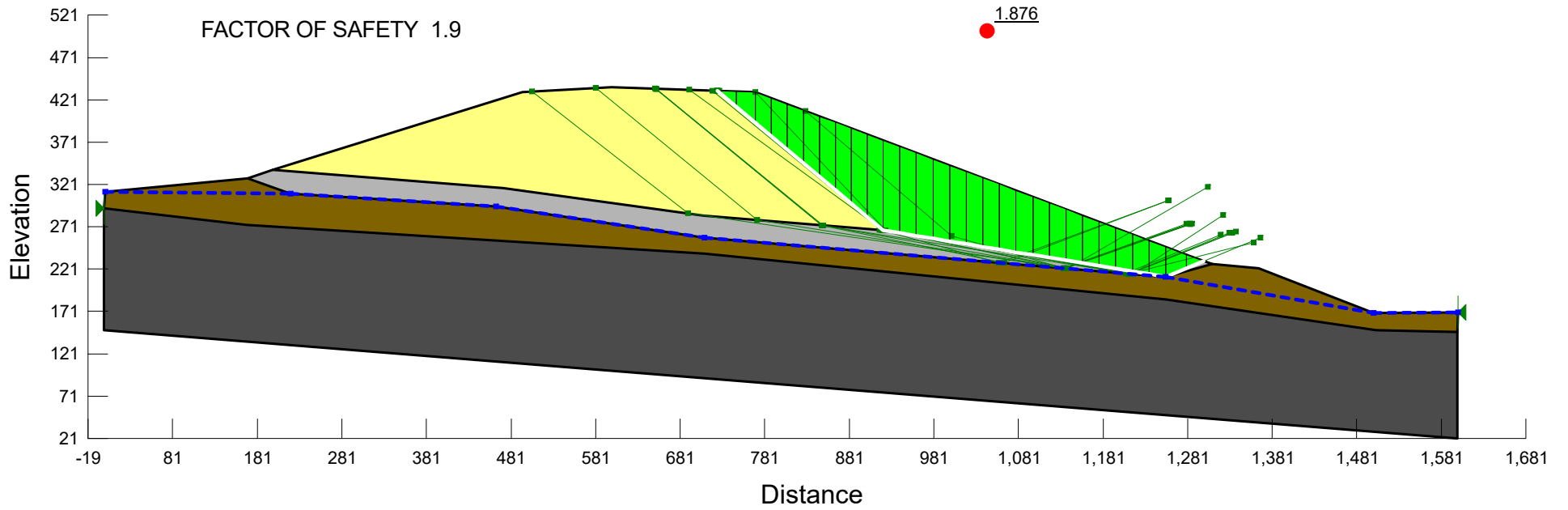
Specimen No.	-	1	2	3	
Normal Stress	psf	144	288	576	
Box Edge Dimension	in	12	12	12	
Bearing Slide Resistance	lbs	9	11	13	
Peak	Shear Stress	psf	134	292	512
	Secant Angle	deg.	43.0	45.4	41.6
Large Displacement	Shear Stress	psf	131	292	481
	Secant Angle	deg.	42.4	45.4	39.9
Asperity Height, Avg. of 5 Meas.	mils	33	33	32	

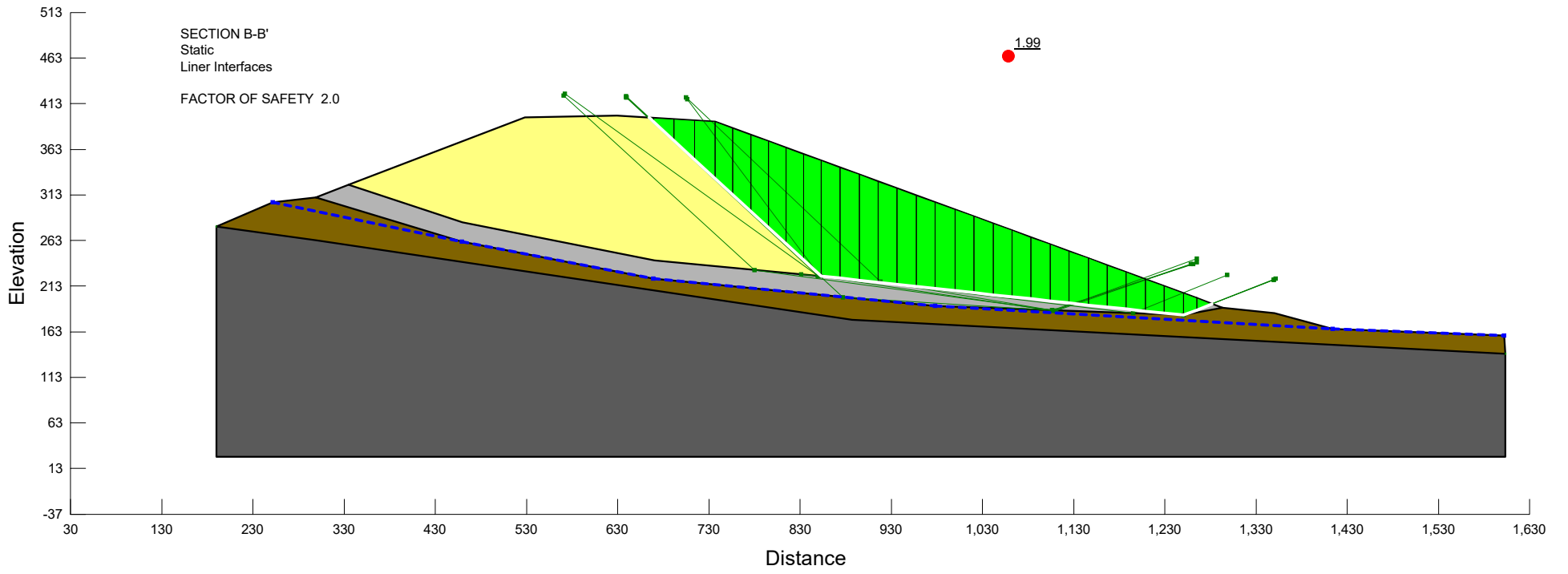
Appendix 3
Stability Model Output

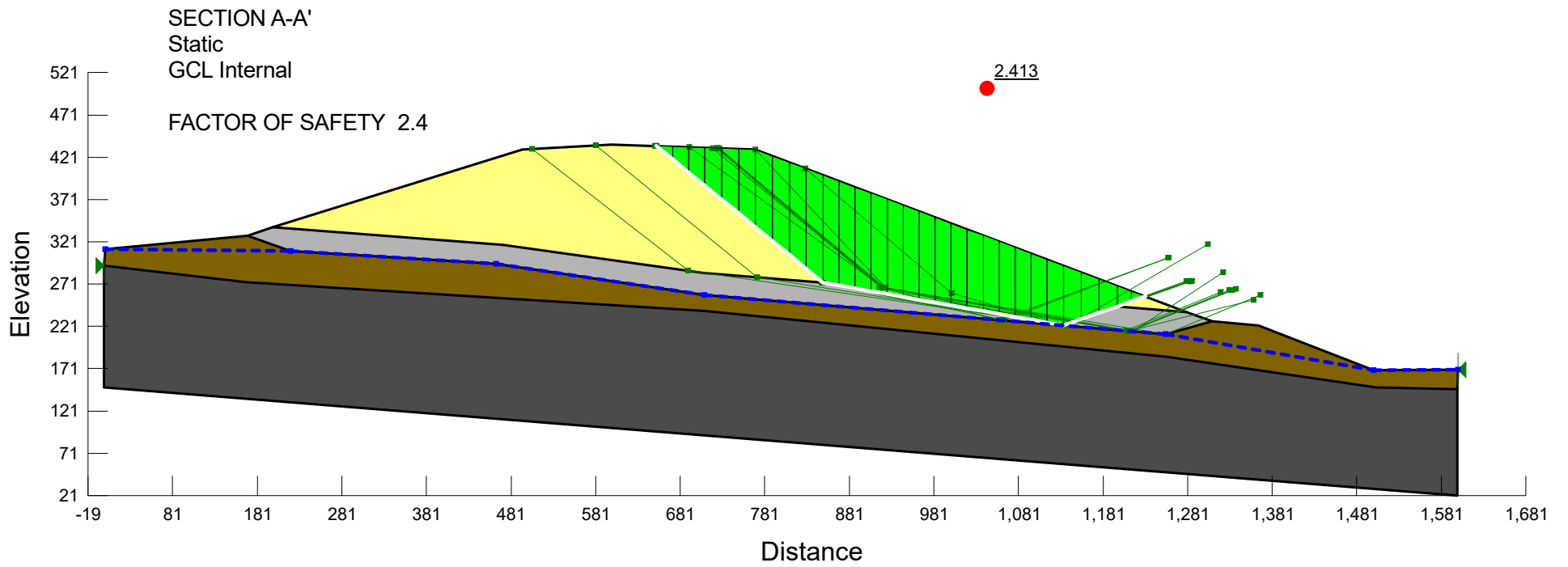
3.1 Static Analyses

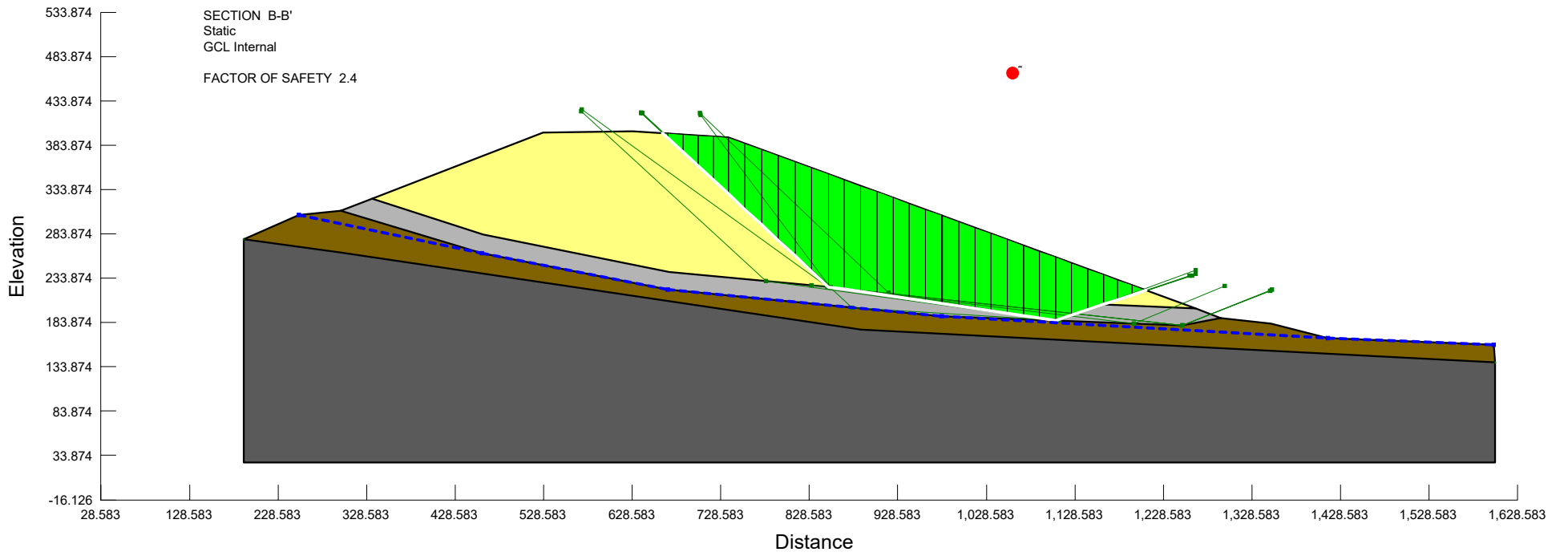
SECTION A-A'
Static
Liner Interfaces

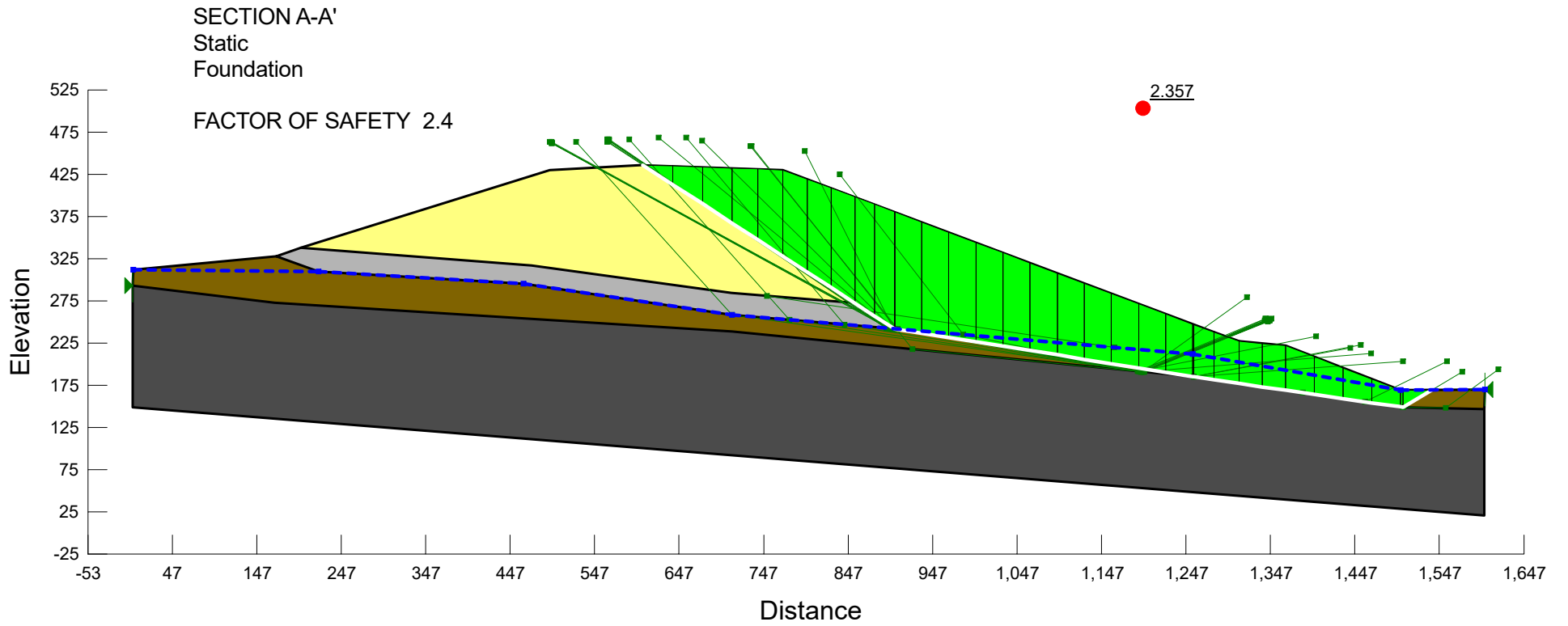
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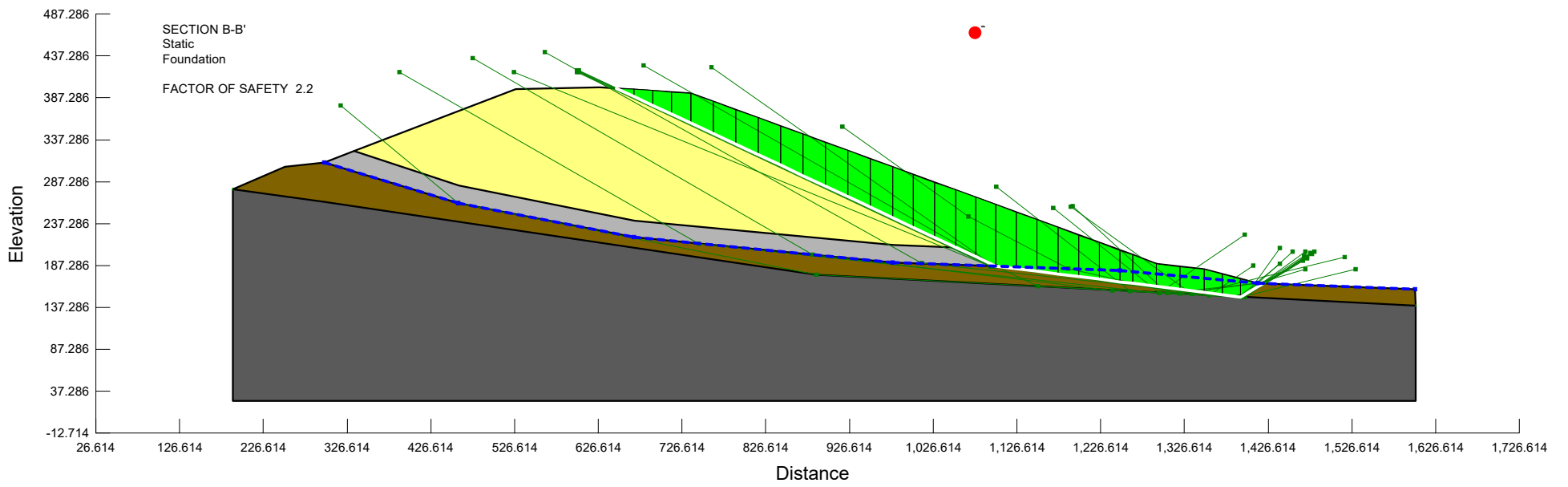


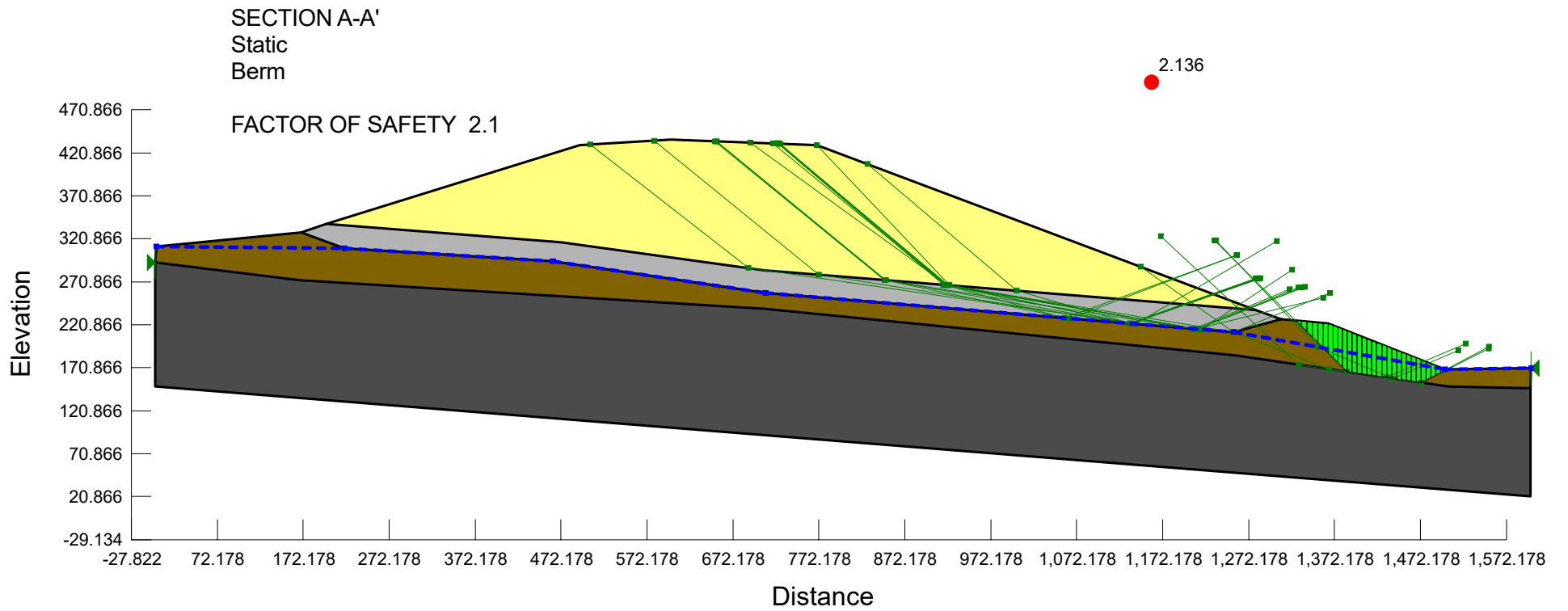


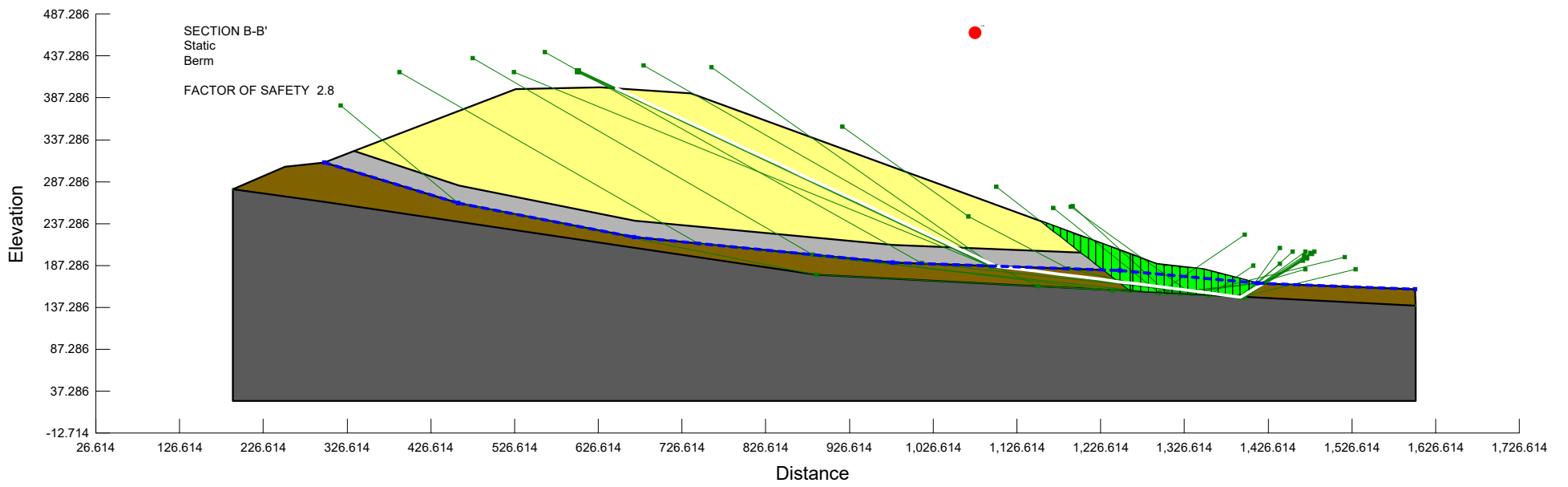




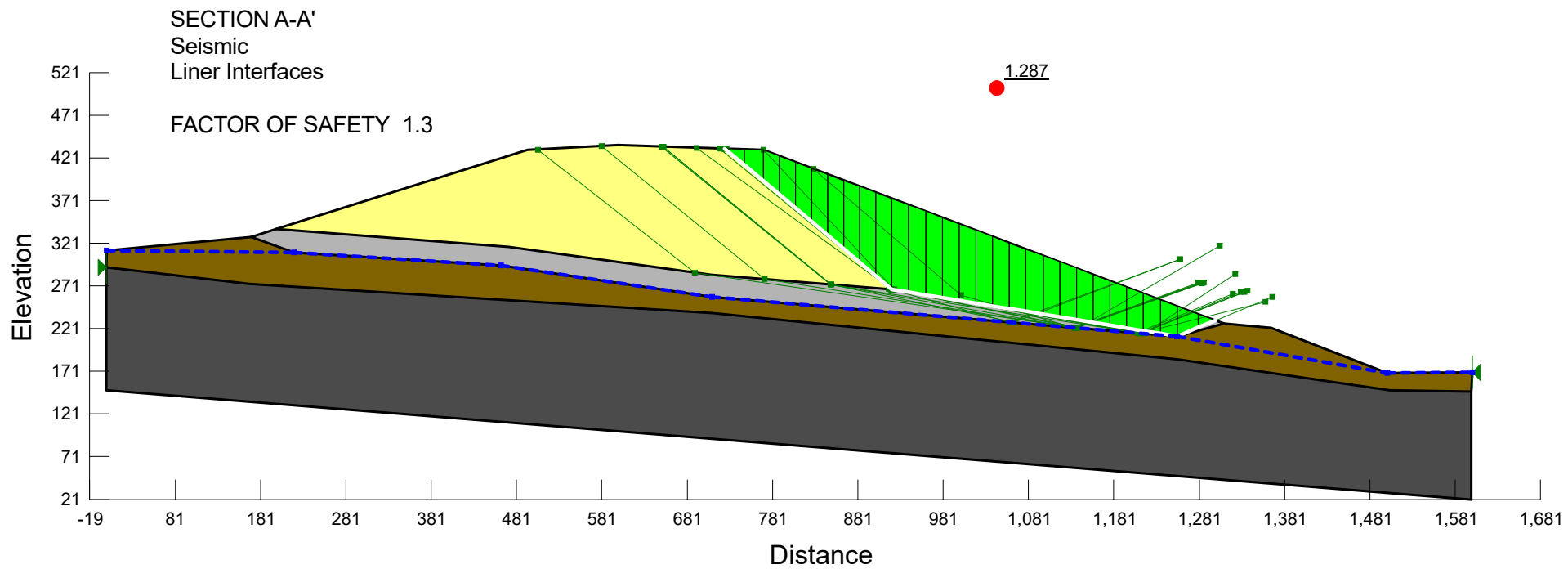


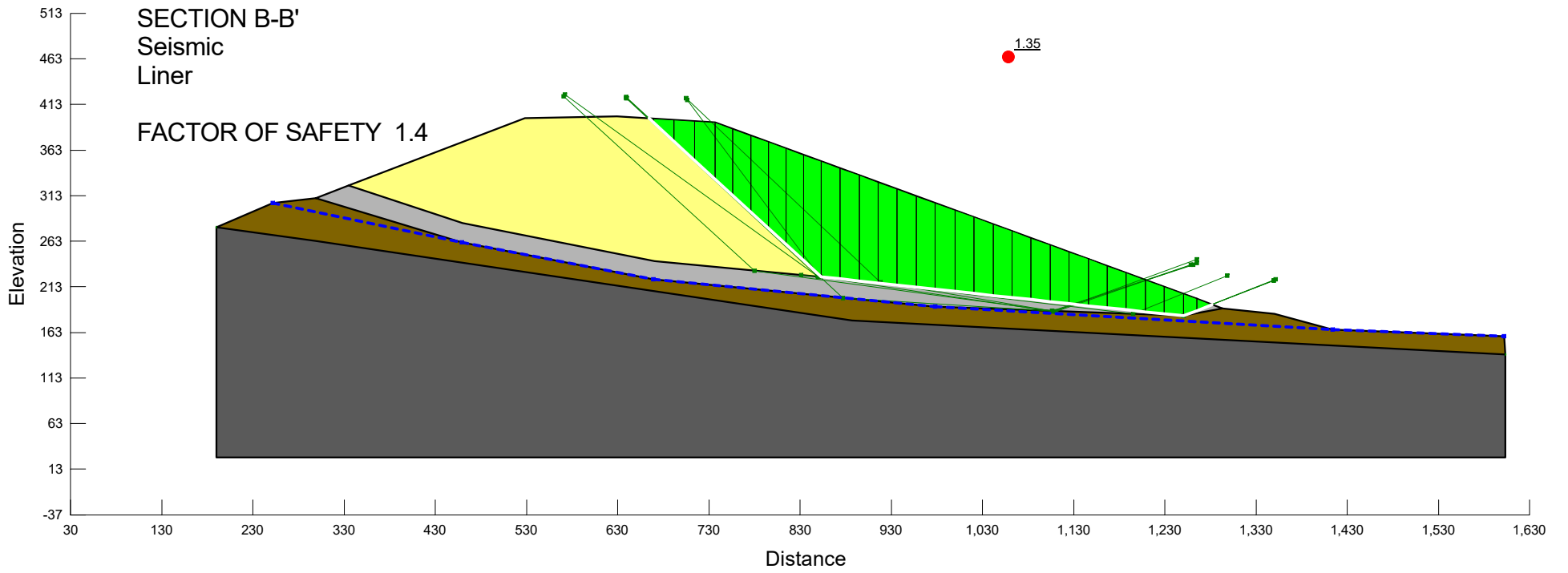


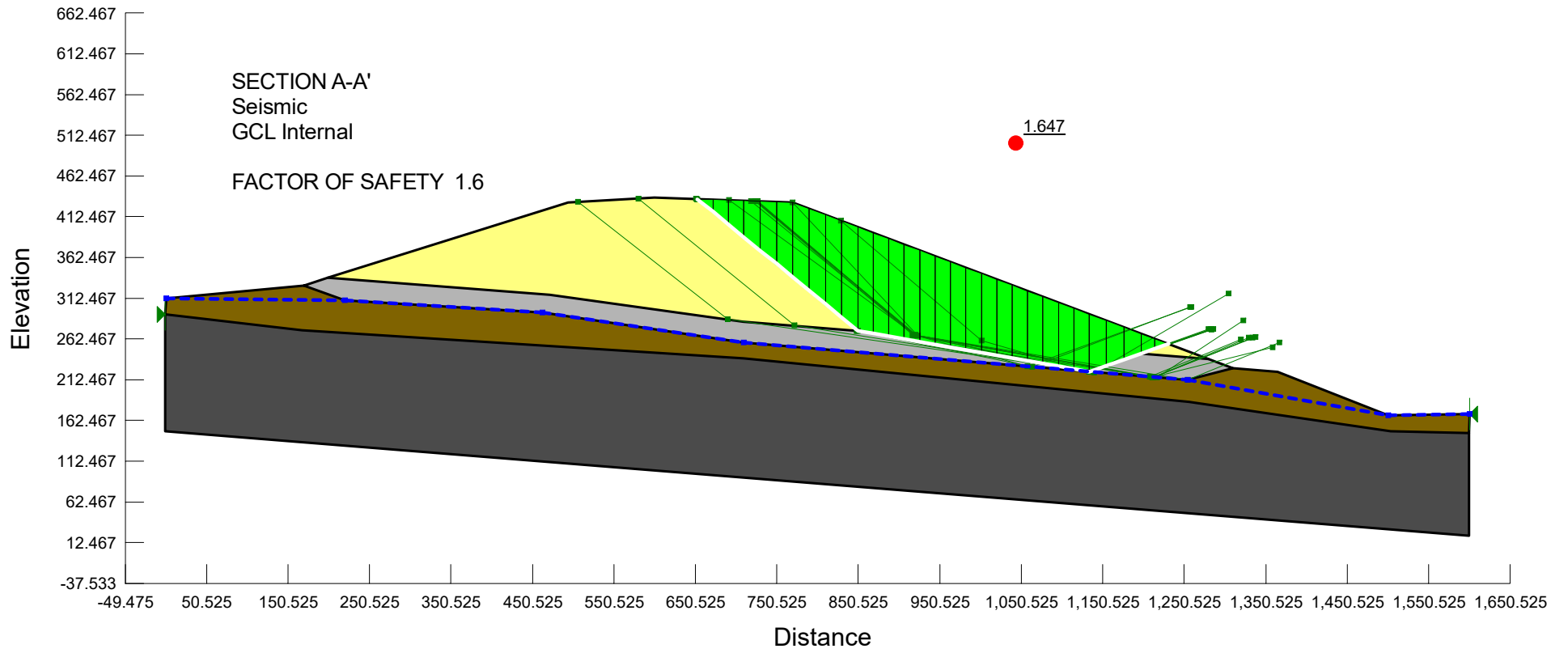


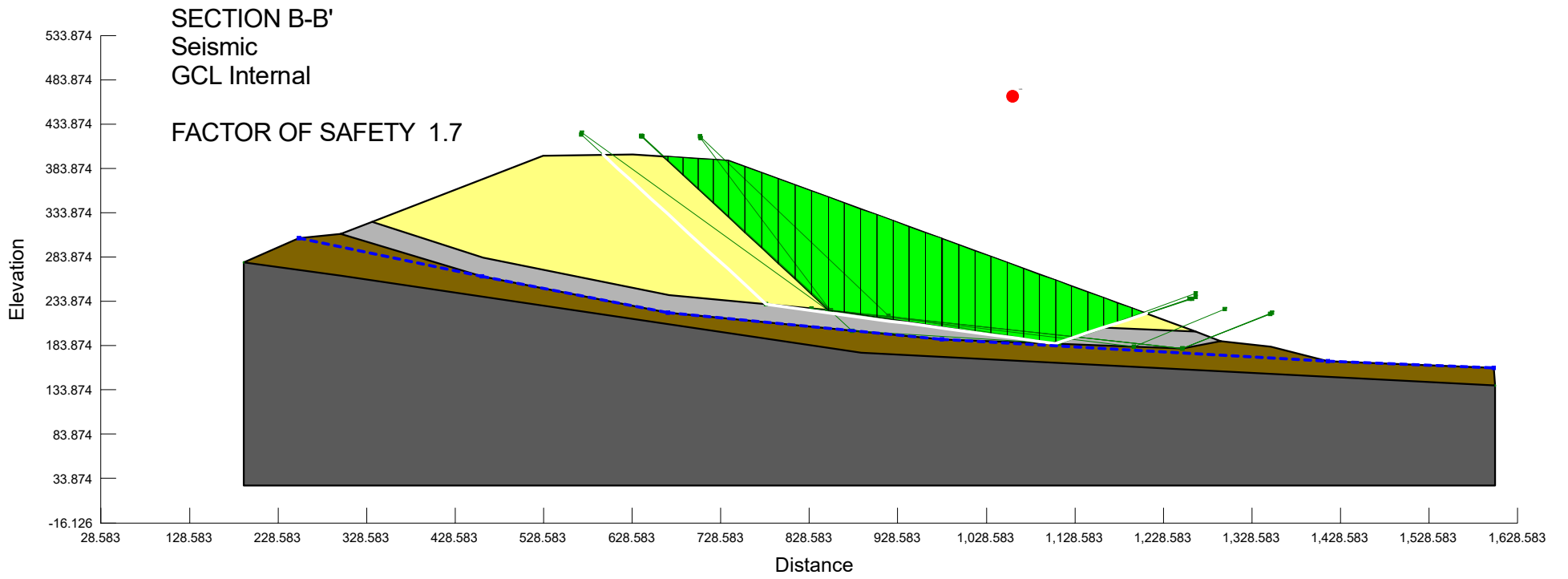


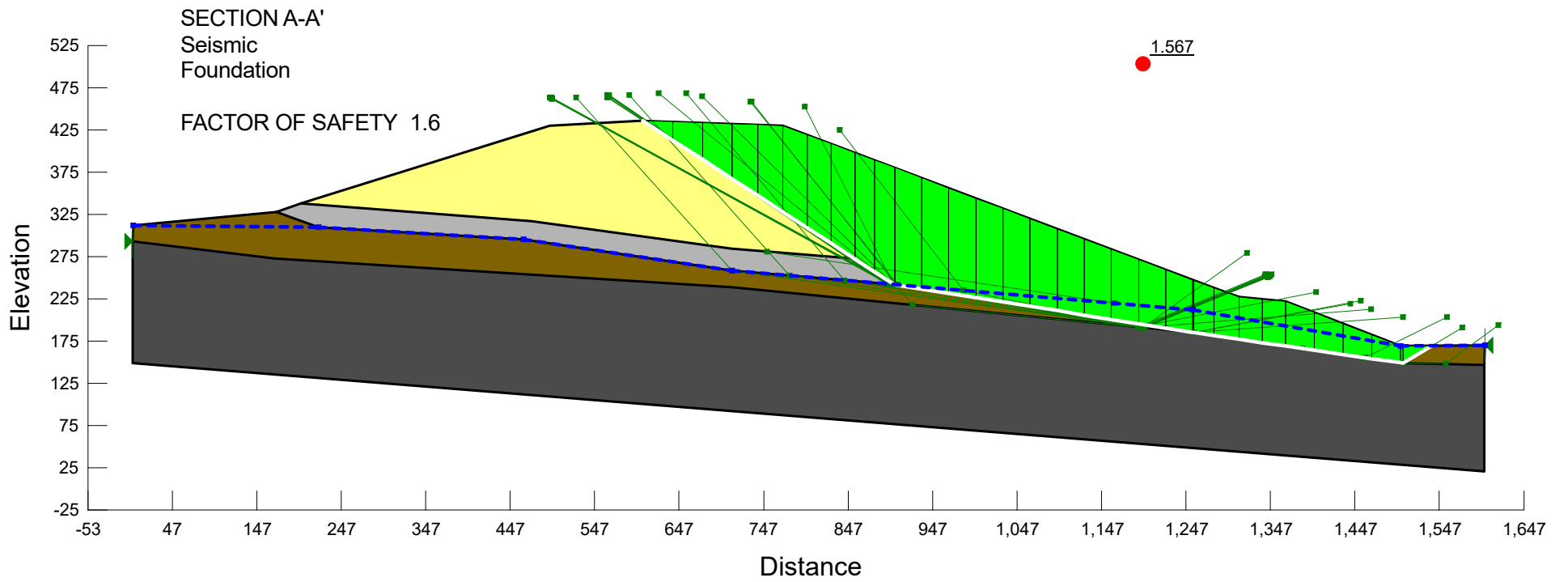
3.2 Seismic Analyses

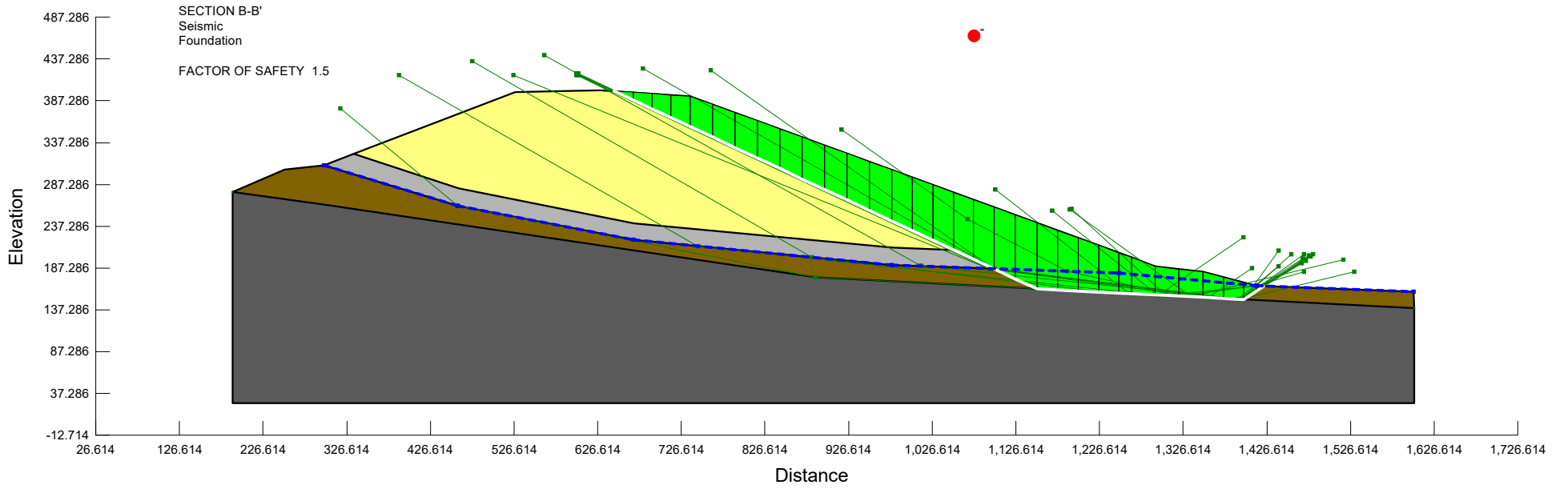


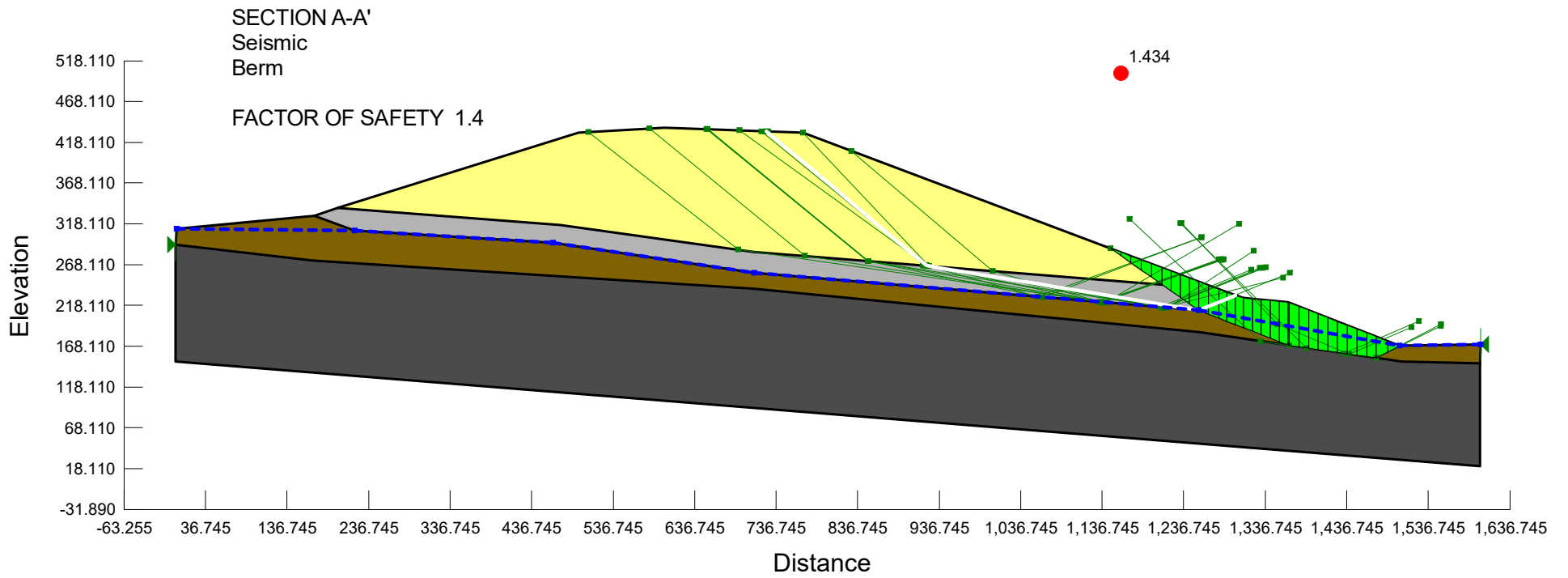


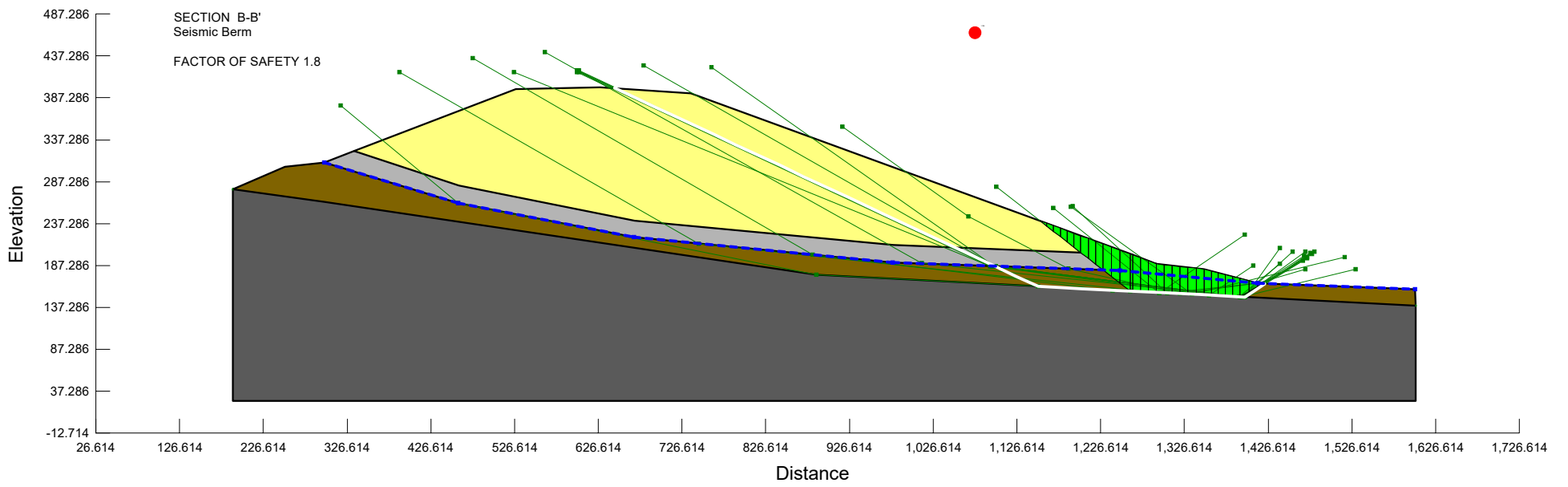








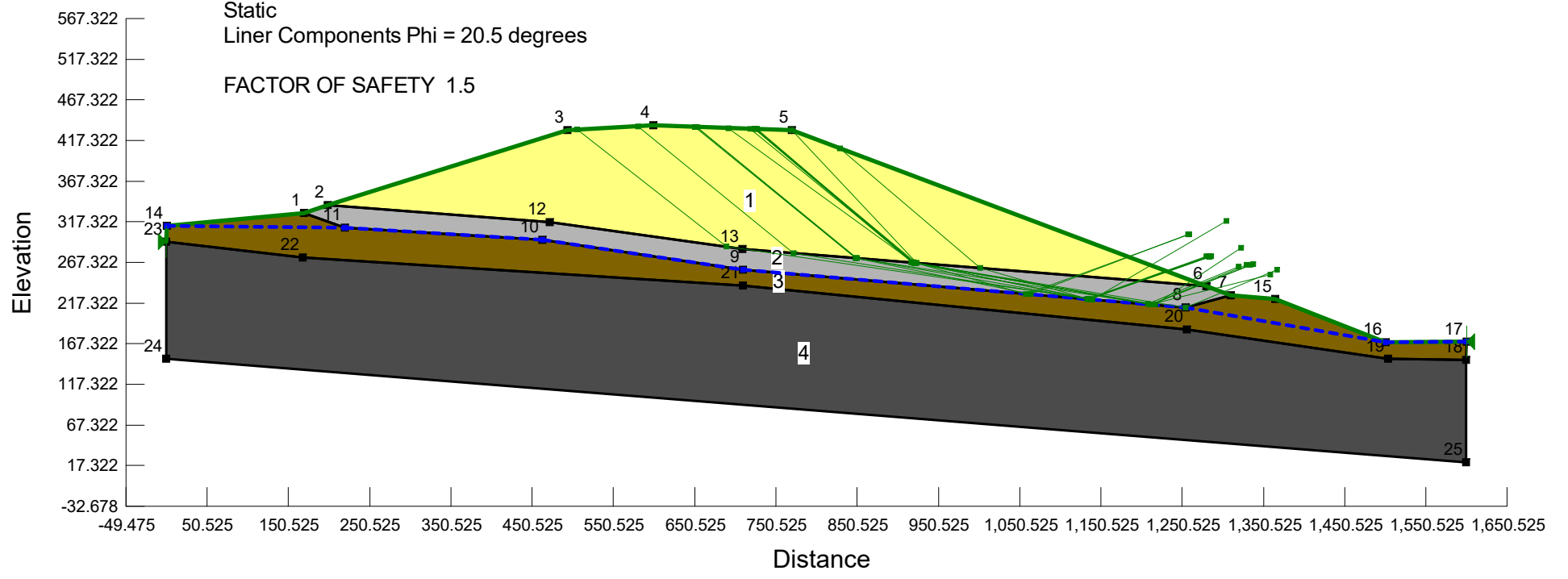


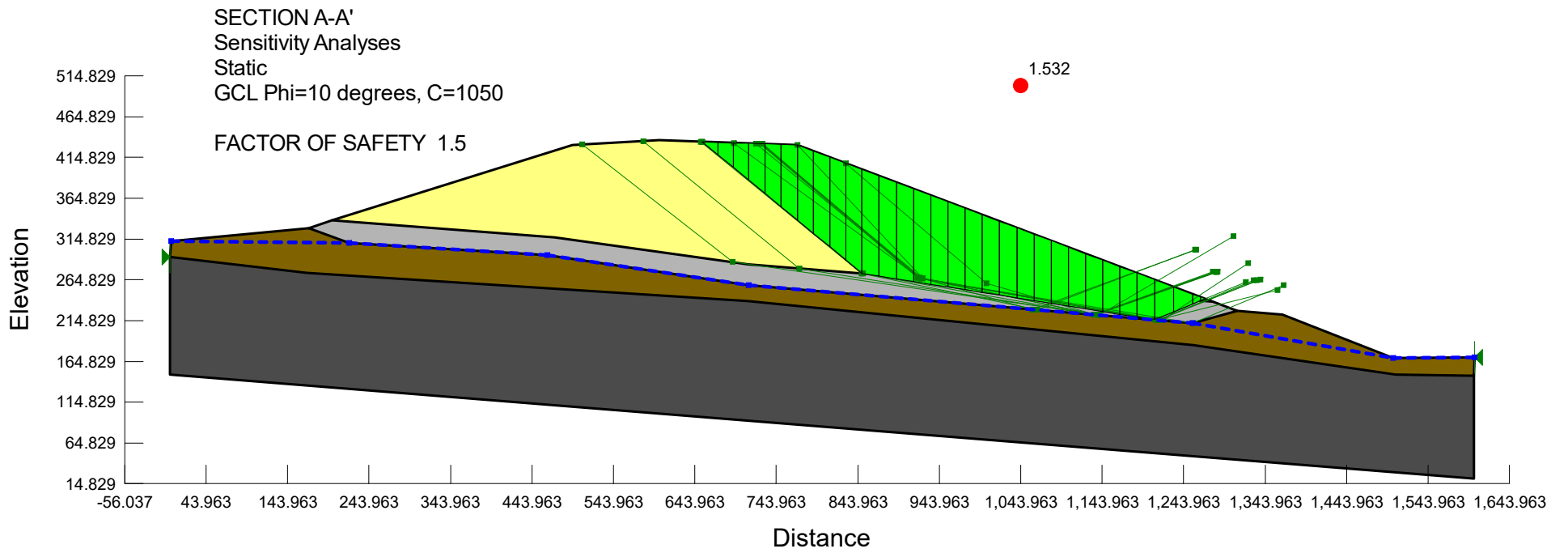


3.3 Sensitivity Analyses

SECTION A-A'
Sensitivity Analyses
Static
Liner Components Phi = 20.5 degrees

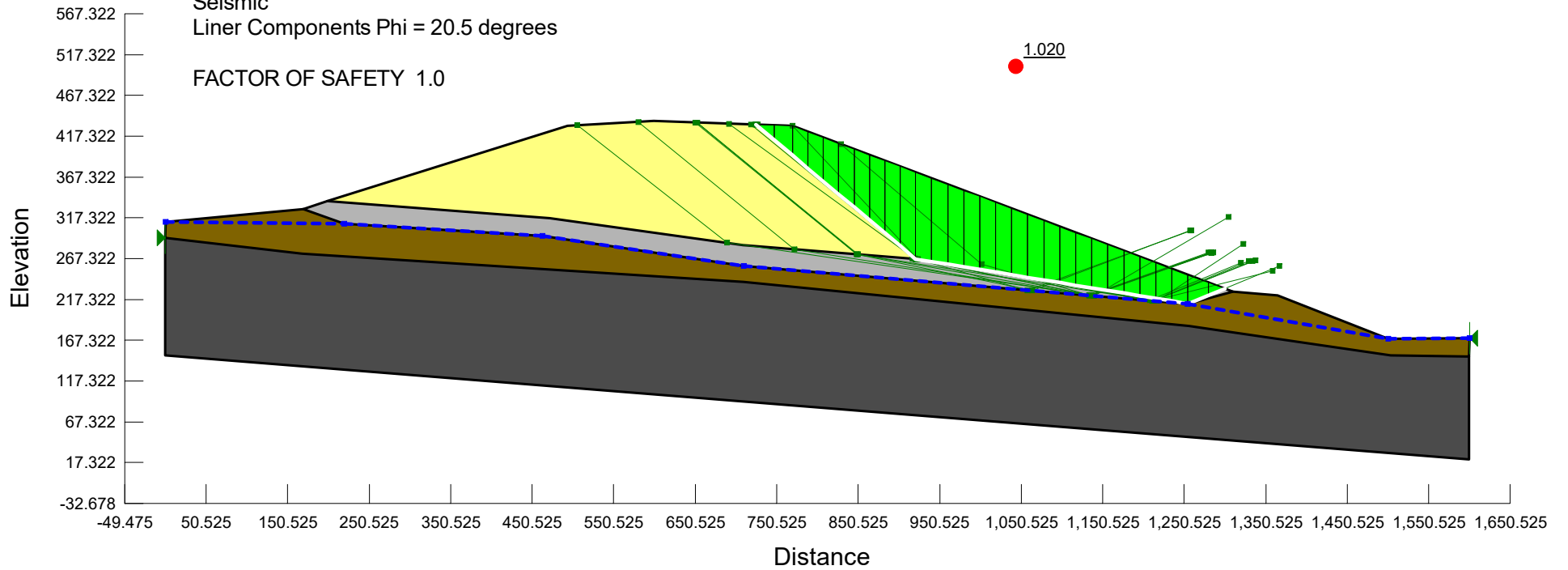
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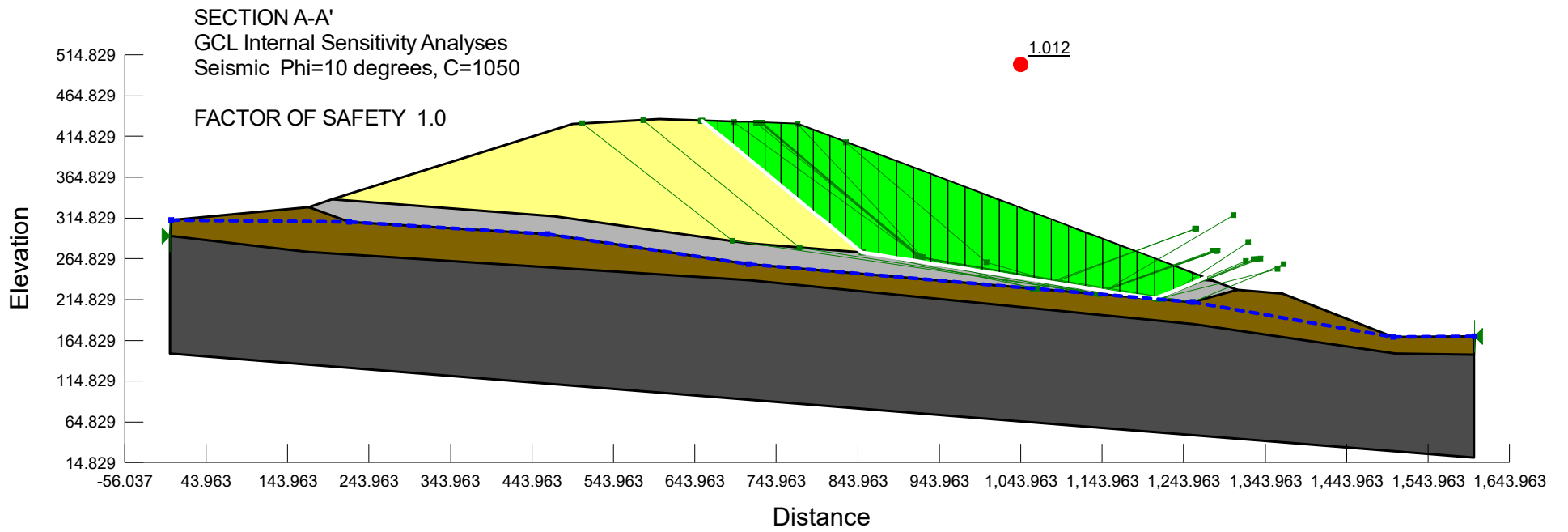


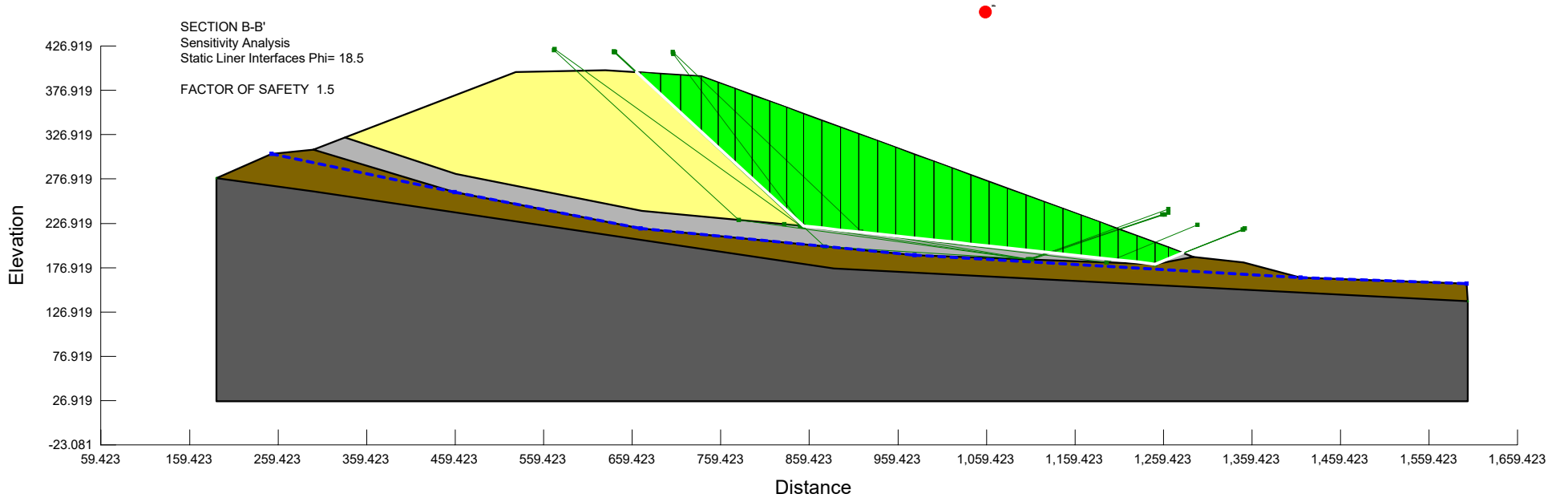


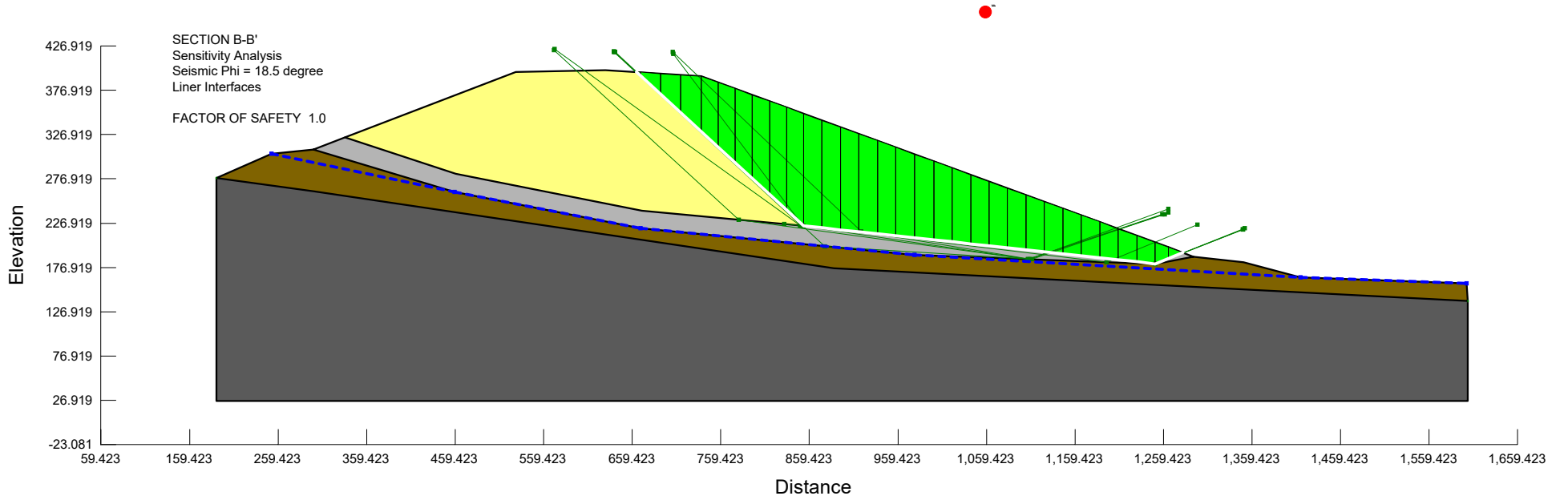
SECTION A-A'
Sensitivity Analyses
Seismic
Liner Components Phi = 20.5 degrees

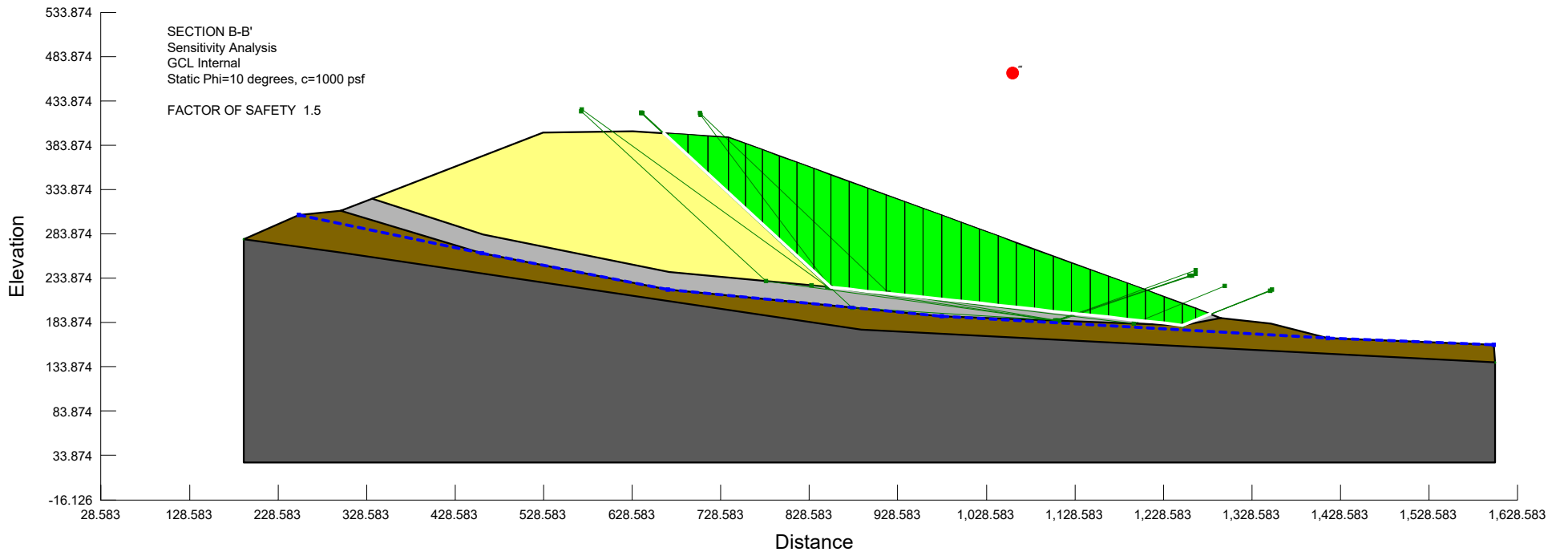
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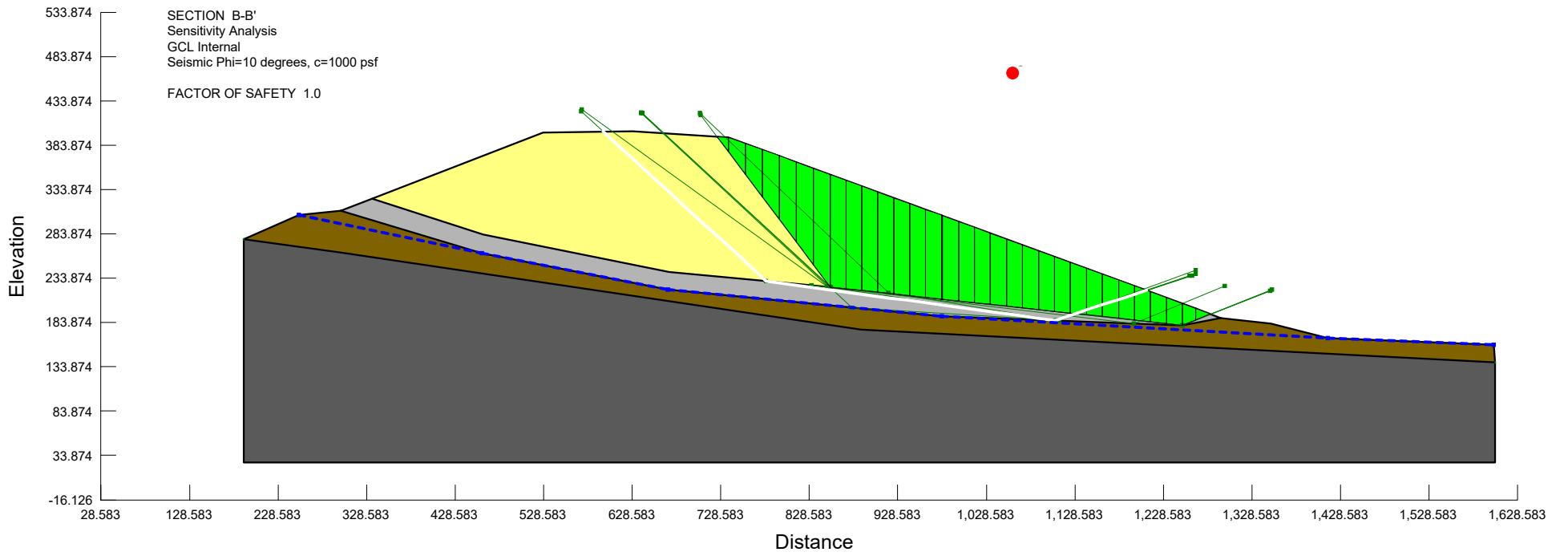






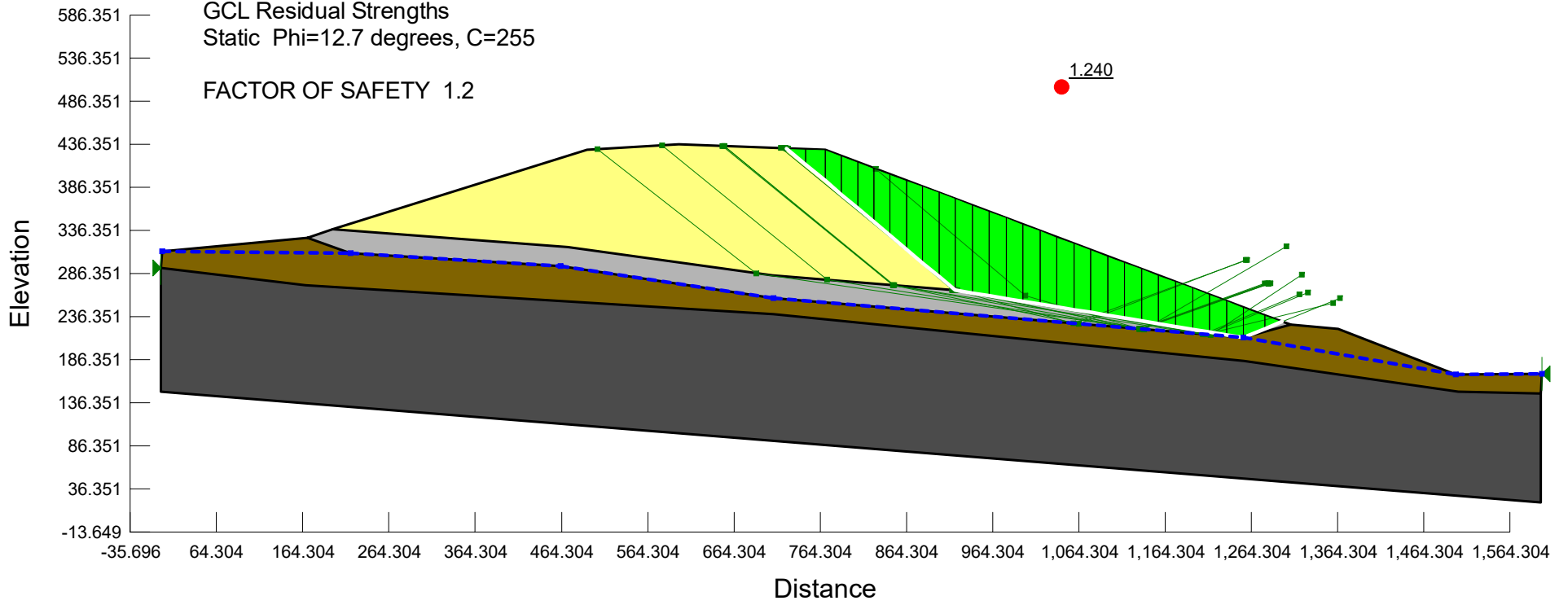






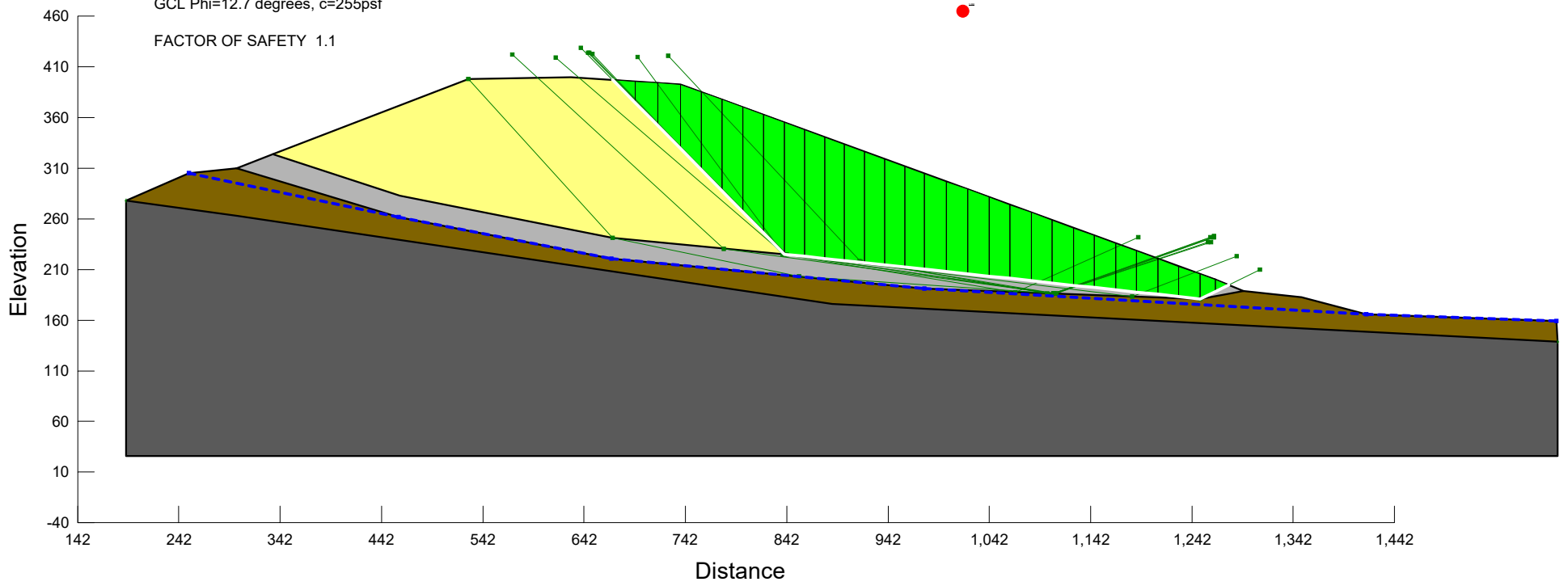
3.4 Post-Earthquake Static Analyses

SECTION A-A'
Post Earthquake Analysis
GCL Residual Strengths
Static $\Phi=12.7$ degrees, $C=255$
FACTOR OF SAFETY 1.2



SECTION B-B'
POST EARTHQUAKE STATIC ANALYSIS
GCL Phi=12.7 degrees, c=255psf

FACTOR OF SAFETY 1.1



3.5 Yield Accelerations

