



A & L LABORATORY

A DIVISION OF GRANITE STATE ANALYTICAL SERVICES, LLC.

155 Center Street, Building C, Auburn, Maine 04210
Phone (207) 784-5354 website www.allaboratory.com

Laboratory Report

Greater Augusta Utility District
12 Williams Street
Augusta, ME 04330

Date Printed: 11/11/2024
Work Order #: 2411-00492
Client Job #:
Date Received: 11/05/2024
Sample collected in: Maine

Attached please find results for the analysis of the samples received on the date referenced above.

Unless otherwise noted in the attached report, the analyses performed met the requirements of the analyzing laboratory's Quality Assurance Plan, Standard Operating Procedures and State Accreditation. This certificate shall not be reproduced, except in full, without the written approval of the analyzing laboratory. The results presented in this report relate to the samples listed on the following pages in the condition in which they were received. Accreditation for each analyte is identified by the * symbol following the analyte name. Location of our analyzing laboratory is identified by the code in the Analyst Column.

A & L Laboratory:
Identified by ME in Analyst Column
155 Center Street, Auburn, Maine 04210
www.allaboratory.com

Granite State Analytical Services LLC:
Identified by NH in Analyst Column
22 Manchester Road, Derry, NH 03038
www.granitestateanalytical.com

Nashoba Analytical:
Identified by MA in the Analyst Column
31A Willow Road, Ayer, MA 01432
www.nashobaanalytical.com

ANALYSIS RELATED NOTES:

- RL: "Reporting limit" means the lowest level of an analyte that can be accurately recovered from the matrix of interest.
- DF: "Dilution factor" means the ratio of the volume of the sample to the volume of the final (dilute) solution.
- MDL: "Minimum Detection Limit" means the minimum result which can be reliably discriminated from a blank with a predetermined confidence level.
- A & L Laboratory / Granite State Analytical Services LLC / Nashoba Analytical. accreditation lists can be found on our websites listed above.
- Subcontracted samples will be identified by the Accreditation number of the subcontract laboratory in the analyst field for each analyte and the appropriate laboratory will be listed here. **None**
- Data Qualifiers (DQ) Flags provide additional information in regards to the receipt, analysis or quality control of a sample. These are indicated under the DQ Flags Column on your report and listed here if necessary: **Data Qualifier (DQ) Flags: None**

SAMPLE STATE SPECIFIC NOTES:

Additional Narrative or Comments: **None**

We appreciate the opportunity to provide you with laboratory services. If you have any questions regarding the enclosed report, please contact the laboratory and we will be happy to assist you.

Rebecca L. Labranche
Laboratory Director



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CERTIFICATE OF ANALYSIS FOR DRINKING WATER

DATE PRINTED: 11/11/2024
CLIENT NAME: Greater Augusta Utility District **PWSID#:** ME0090080

CLIENT ADDRESS: 12 Williams Street
Augusta, ME 04330

SAMPLE ID #: 2411-00492-001
SAMPLED BY: Maia Ferris

LOCATION: TP-5 EP(TP FOR RIVERSIDE WELLS)

Legend	
Passes	✓
Fails EPA Primary	⊗
Fails EPA Secondary	⚠
Fails State Guideline	✗
Attention	⚡

DATE AND TIME COLLECTED: 11/04/2024 07:30AM
DATE AND TIME RECEIVED: 11/05/2024 07:40AM
ANALYSIS PACKAGE: PFAS-533-25-ME
RECEIPT TEMPERATURE: ON ICE 6° CELSIUS
CLIENT JOB #:

Test Description	Result	Test Units	Pass /Fail	DQ Flag	RL	Limit	Method	Analyst	Date - Time Analyzed
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic Acid.*	<2.00	ng/L			2.00	No Limit	EPA 533	DL-NH	11/08/2024 03:16PM
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS).*	<2.00	ng/L			2.00	No Limit	EPA 533	DL-NH	11/08/2024 03:16PM
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS).*	<2.00	ng/L			2.00	No Limit	EPA 533	DL-NH	11/08/2024 03:16PM
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS).*	<2.00	ng/L			2.00	No Limit	EPA 533	DL-NH	11/08/2024 03:16PM
4,8-dioxa-3H-perfluorononanoic acid.*	<2.00	ng/L			2.00	No Limit	EPA 533	DL-NH	11/08/2024 03:16PM
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid.*	<2.00	ng/L			2.00	No Limit	EPA 533	DL-NH	11/08/2024 03:16PM
Date Extracted	-					No Limit	EPA 533	DL-NH	11/08/2024 07:10AM
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA).*	<2.00	ng/L			2.00	No Limit	EPA 533	DL-NH	11/08/2024 03:16PM
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA).*	<2.00	ng/L			2.00	No Limit	EPA 533	DL-NH	11/08/2024 03:16PM
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA).*	<2.00	ng/L			2.00	No Limit	EPA 533	DL-NH	11/08/2024 03:16PM
Perfluoro-3-methoxypropanoic acid (PFMPA).*	<2.00	ng/L			2.00	No Limit	EPA 533	DL-NH	11/08/2024 03:16PM
Perfluoro-4-methoxybutanoic acid (PFMBA).*	<2.00	ng/L			2.00	No Limit	EPA 533	DL-NH	11/08/2024 03:16PM

Rebecca L. Labranche
Laboratory Director



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SAMPLED BY: Maia Ferris

LOCATION: TP-5 EP(TP FOR RIVERSIDE WELLS)

Legend	
Passes	✓
Fails EPA Primary	✗
Fails EPA Secondary	⚠
Fails State Guideline	✗
Attention	⚠

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RECEIPT TEMPERATURE: ON ICE 6° CELSIUS
CLIENT JOB #:

Test Description	Result	Test Units	Pass /Fail	DQ Flag	RL	Limit	Method	Analyst	Date - Time Analyzed
Perfluorobutanesulfonic Acid (PFBS).*	<2.00	ng/L			2.00	No Limit	EPA 533	DL-NH	11/08/2024 03:16PM
Perfluorobutanoic Acid (PFBA).*	4.82	ng/L			2.00	No Limit	EPA 533	DL-NH	11/08/2024 03:16PM
Perfluorodecanoic Acid (PFDA).*	<2.00	ng/L	✓		2.00	20 ng/L	EPA 533	DL-NH	11/08/2024 03:16PM
Perfluorododecanoic Acid (PFDoA).*	<2.00	ng/L			2.00	No Limit	EPA 533	DL-NH	11/08/2024 03:16PM
Perfluoroheptanesulfonic Acid (PFHpS).*	<2.00	ng/L			2.00	No Limit	EPA 533	DL-NH	11/08/2024 03:16PM
Perfluoroheptanoic Acid (PFHpA).*	3.74	ng/L	✓		2.00	20 ng/L	EPA 533	DL-NH	11/08/2024 03:16PM
Perfluorohexanesulfonic Acid (PFHxS).*	2.44	ng/L	✓		2.00	20 ng/L	EPA 533	DL-NH	11/08/2024 03:16PM
Perfluorohexanoic Acid (PFHxA).*	4.28	ng/L			2.00	No Limit	EPA 533	DL-NH	11/08/2024 03:16PM
Perfluorononanoic Acid (PFNA).*	<2.00	ng/L	✓		2.00	20 ng/L	EPA 533	DL-NH	11/08/2024 03:16PM
Perfluorooctanesulfonic Acid (PFOS).*	9.03	ng/L	✓		2.00	20 ng/L	EPA 533	DL-NH	11/08/2024 03:16PM
Perfluorooctanoic Acid (PFOA).*	8.05	ng/L	✓		2.00	20 ng/L	EPA 533	DL-NH	11/08/2024 03:16PM
Perfluoropentanesulfonic Acid (PFPeS).*	<2.00	ng/L			2.00	No Limit	EPA 533	DL-NH	11/08/2024 03:16PM
Perfluoropentanoic Acid (PFPeA).*	3.71	ng/L			2.00	No Limit	EPA 533	DL-NH	11/08/2024 03:16PM
Perfluoroundecanoic Acid (PFUnA).*	<2.00	ng/L			2.00	No Limit	EPA 533	DL-NH	11/08/2024 03:16PM

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CLIENT JOB #:

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2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy-13C3)propanoic acid	80	%	✓			50-200%	EPA 533 - IDA	DL-NH	11/08/2024 03:16PM
Perfluoro-n-[1,2,3,4,5,6,7-13C7]undecanoic acid	88	%	✓			50-200%	EPA 533 - IDA	DL-NH	11/08/2024 03:16PM
Perfluoro-n-[1,2,3,4,5,6-13C6]decanoic acid	88	%	✓			50-200%	EPA 533 - IDA	DL-NH	11/08/2024 03:16PM
Perfluoro-n-[1,2,3,4,5-13C5]pentanoic acid	95	%	✓			50-200%	EPA 533 - IDA	DL-NH	11/08/2024 03:16PM
Perfluoro-n-[1,2,3,4,6-13C5]hexanoic acid	86	%	✓			50-200%	EPA 533 - IDA	DL-NH	11/08/2024 03:16PM
Perfluoro-n-[1,2,3,4-13C4]butanoic acid	90	%	✓			50-200%	EPA 533 - IDA	DL-NH	11/08/2024 03:16PM
Perfluoro-n-[1,2,3,4-13C4]heptanoic acid	86	%	✓			50-200%	EPA 533 - IDA	DL-NH	11/08/2024 03:16PM
Perfluoro-n-[1,2-13C2]dodecanoic acid	85	%	✓			50-200%	EPA 533 - IDA	DL-NH	11/08/2024 03:16PM
Perfluoro-n-[13C8]octanoic acid	89	%	✓			50-200%	EPA 533 - IDA	DL-NH	11/08/2024 03:16PM
Perfluoro-n-[13C9]nonanoic acid	90	%	✓			50-200%	EPA 533 - IDA	DL-NH	11/08/2024 03:16PM
Sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]decane sulfonate	78	%	✓			50-200%	EPA 533 - IDA	DL-NH	11/08/2024 03:16PM
Sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]hexane sulfonate	108	%	✓			50-200%	EPA 533 - IDA	DL-NH	11/08/2024 03:16PM

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Passes	✓
Fails EPA Primary	⊗
Fails EPA Secondary	⚠
Fails State Guideline	✗
Attention	⚠

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Test Description	Result	Test Units	Pass /Fail	DQ Flag	RL	Limit	Method	Analyst	Date - Time Analyzed
Sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]octane sulfonate	71	%	✓			50-200%	EPA 533 - IDA	DL-NH	11/08/2024 03:16PM
Sodium perfluoro-[13C8]octanesulfonate	97	%	✓			50-200%	EPA 533 - IDA	DL-NH	11/08/2024 03:16PM
Sodium perfluoro-1-[1,2,3-13C3]hexanesulfonate	97	%	✓			50-200%	EPA 533 - IDA	DL-NH	11/08/2024 03:16PM
Sodium perfluoro-1-[2,3,4-13C3]butanesulfonate	96	%	✓			50-200%	EPA 533 - IDA	DL-NH	11/08/2024 03:16PM
PFAS, Total Maine (6)	23.3	ng/L	✗		2.00	20 ng/L	N/A Calculation	DL-NH	11/08/2024 03:16PM

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CLIENT ADDRESS: 12 Williams Street
Augusta, ME 04330

SAMPLE ID #: 2411-00492-002
SAMPLED BY: Maia Ferris

LOCATION:

MORE LOC INFO: FIELD BLANK

Legend	
Passes	✓
Fails EPA Primary	⊗
Fails EPA Secondary	⚠
Fails State Guideline	✗
Attention	⚠

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11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic Acid.*	<2.00	ng/L			2.00	No Limit	EPA 533	DL-NH	11/08/2024 03:29PM
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS).*	<2.00	ng/L			2.00	No Limit	EPA 533	DL-NH	11/08/2024 03:29PM
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS).*	<2.00	ng/L			2.00	No Limit	EPA 533	DL-NH	11/08/2024 03:29PM
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS).*	<2.00	ng/L			2.00	No Limit	EPA 533	DL-NH	11/08/2024 03:29PM
4,8-dioxa-3H-perfluorononanoic acid.*	<2.00	ng/L			2.00	No Limit	EPA 533	DL-NH	11/08/2024 03:29PM
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid.*	<2.00	ng/L			2.00	No Limit	EPA 533	DL-NH	11/08/2024 03:29PM
Date Extracted	-					No Limit	EPA 533	DL-NH	11/08/2024 07:10AM
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA).*	<2.00	ng/L			2.00	No Limit	EPA 533	DL-NH	11/08/2024 03:29PM
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA).*	<2.00	ng/L			2.00	No Limit	EPA 533	DL-NH	11/08/2024 03:29PM
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA).*	<2.00	ng/L			2.00	No Limit	EPA 533	DL-NH	11/08/2024 03:29PM
Perfluoro-3-methoxypropanoic acid (PFMPA).*	<2.00	ng/L			2.00	No Limit	EPA 533	DL-NH	11/08/2024 03:29PM
Perfluoro-4-methoxybutanoic acid (PFMBA).*	<2.00	ng/L			2.00	No Limit	EPA 533	DL-NH	11/08/2024 03:29PM

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CLIENT ADDRESS: 12 Williams Street
Augusta, ME 04330

SAMPLE ID #: 2411-00492-002
SAMPLED BY: Maia Ferris

LOCATION:

MORE LOC INFO: FIELD BLANK

Legend	
Passes	✓
Fails EPA Primary	⊗
Fails EPA Secondary	⚠
Fails State Guideline	✗
Attention	⚠

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Perfluorobutanoic Acid (PFBA).*	<2.00	ng/L			2.00	No Limit	EPA 533	DL-NH	11/08/2024 03:29PM
Perfluorodecanoic Acid (PFDA).*	<2.00	ng/L	✓		2.00	20 ng/L	EPA 533	DL-NH	11/08/2024 03:29PM
Perfluorododecanoic Acid (PFDoA).*	<2.00	ng/L			2.00	No Limit	EPA 533	DL-NH	11/08/2024 03:29PM
Perfluoroheptanesulfonic Acid (PFHpS).*	<2.00	ng/L			2.00	No Limit	EPA 533	DL-NH	11/08/2024 03:29PM
Perfluoroheptanoic Acid (PFHpA).*	<2.00	ng/L	✓		2.00	20 ng/L	EPA 533	DL-NH	11/08/2024 03:29PM
Perfluorohexanesulfonic Acid (PFHxS).*	<2.00	ng/L	✓		2.00	20 ng/L	EPA 533	DL-NH	11/08/2024 03:29PM
Perfluorohexanoic Acid (PFHxA).*	<2.00	ng/L			2.00	No Limit	EPA 533	DL-NH	11/08/2024 03:29PM
Perfluorononanoic Acid (PFNA).*	<2.00	ng/L	✓		2.00	20 ng/L	EPA 533	DL-NH	11/08/2024 03:29PM
Perfluorooctanesulfonic Acid (PFOS).*	<2.00	ng/L	✓		2.00	20 ng/L	EPA 533	DL-NH	11/08/2024 03:29PM
Perfluorooctanoic Acid (PFOA).*	<2.00	ng/L	✓		2.00	20 ng/L	EPA 533	DL-NH	11/08/2024 03:29PM
Perfluoropentanesulfonic Acid (PFPeS).*	<2.00	ng/L			2.00	No Limit	EPA 533	DL-NH	11/08/2024 03:29PM
Perfluoropentanoic Acid (PFPeA).*	<2.00	ng/L			2.00	No Limit	EPA 533	DL-NH	11/08/2024 03:29PM

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LOCATION:

MORE LOC INFO: FIELD BLANK

Legend	
Passes	✓
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2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy-13C3)propanoic acid	88	%	✓			50-200%	EPA 533 - IDA	DL-NH	11/08/2024 03:29PM
Perfluoro-n-[1,2,3,4,5,6,7-13C7]undecanoic acid	91	%	✓			50-200%	EPA 533 - IDA	DL-NH	11/08/2024 03:29PM
Perfluoro-n-[1,2,3,4,5,6-13C6]decanoic acid	88	%	✓			50-200%	EPA 533 - IDA	DL-NH	11/08/2024 03:29PM
Perfluoro-n-[1,2,3,4,5-13C5]pentanoic acid	104	%	✓			50-200%	EPA 533 - IDA	DL-NH	11/08/2024 03:29PM
Perfluoro-n-[1,2,3,4,6-13C5]hexanoic acid	91	%	✓			50-200%	EPA 533 - IDA	DL-NH	11/08/2024 03:29PM
Perfluoro-n-[1,2,3,4-13C4]butanoic acid	94	%	✓			50-200%	EPA 533 - IDA	DL-NH	11/08/2024 03:29PM
Perfluoro-n-[1,2,3,4-13C4]heptanoic acid	88	%	✓			50-200%	EPA 533 - IDA	DL-NH	11/08/2024 03:29PM
Perfluoro-n-[1,2-13C2]dodecanoic acid	87	%	✓			50-200%	EPA 533 - IDA	DL-NH	11/08/2024 03:29PM
Perfluoro-n-[13C8]octanoic acid	91	%	✓			50-200%	EPA 533 - IDA	DL-NH	11/08/2024 03:29PM
Perfluoro-n-[13C9]nonanoic acid	93	%	✓			50-200%	EPA 533 - IDA	DL-NH	11/08/2024 03:29PM
Sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]decane sulfonate	75	%	✓			50-200%	EPA 533 - IDA	DL-NH	11/08/2024 03:29PM

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LOCATION:

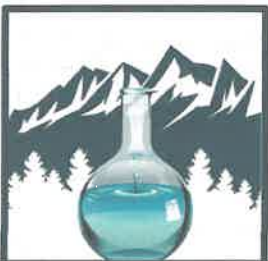
MORE LOC INFO: FIELD BLANK

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CLIENT JOB #:

Test Description	Result	Test Units	Pass /Fail	DQ Flag	RL	Limit	Method	Analyst	Date - Time Analyzed
Sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]hexane sulfonate	81	%	✓			50-200%	EPA 533 - IDA	DL-NH	11/08/2024 03:29PM
Sodium 1H,1H,2H,2H-perfluoro-1-[1,2-13C2]octane sulfonate	76	%	✓			50-200%	EPA 533 - IDA	DL-NH	11/08/2024 03:29PM
Sodium perfluoro-[13C8]octanesulfonate	93	%	✓			50-200%	EPA 533 - IDA	DL-NH	11/08/2024 03:29PM
Sodium perfluoro-1-[1,2,3-13C3]hexanesulfonate	93	%	✓			50-200%	EPA 533 - IDA	DL-NH	11/08/2024 03:29PM
Sodium perfluoro-1-[2,3,4-13C3]butanesulfonate	98	%	✓			50-200%	EPA 533 - IDA	DL-NH	11/08/2024 03:29PM
PFAS, Total Maine (6)	<2.00	ng/L			2.00	20 ng/L	N/A Calculation	DL-NH	11/08/2024 03:29PM

Rebecca L. Labranche
Laboratory Director



A & L LABORATORY

A DIVISION OF GRANITE STATE ANALYTICAL SERVICES, LLC

155 Center Street, Building C Auburn, Maine 04210

Phone: 207-784-5354 | website: www.allaboratory.com

CHAIN OF CUSTODY

2411-00492-001

Sampled: 11/04/24 07:30

ID: Greater Augusta Utility
Distri

PKG:PFAS-533-25-ME

2411-00492-002

Sampled: 11/04/24 07:30

ID: Greater Augusta Utility
Distri

PKG:PFAS-533-25-ME-
Field Blank

Customer Name: GREATER AUGUSTA UTILITY DIST Sample Date: 11/4/24 Time: 7:30 am

Sample Address: 21 SUNRISE CIRCLE City: AUGUSTA State: ME Zip: 04330

Sample Taken By: MAIA FERRIS

Type of Source (circle) DUG WELL DRILLED WELL SPRING LAKE

* FIELD BLANK BAG WAS
NOT SEALED. EMPTY FIELD
BLANK FELL OUT INTO COOLER
DURING SHIPMENT - MF

Report To Be Sent To: Please Note: If results are emailed hard copies will not be sent unless requested.

Name: MAIA FERRIS

Address: 12 WILLIAMS ST

City: AUGUSTA State: ME Zip: 04330

E-Mail: mferris@gaud.us

Phone: 616-6254 Signature: Maia Ferris

If this is for compliance with LD 129 you need to sample your finished drinking water (point of entry to distribution system)

☐ Well
☒ Treatment Plant
☐ Other

Perfluorinated Compounds Analytical Options

Please see reverse for information about the different options available. Please note that other packages are available by EPA 537.1 but they require a different test kit.

☒ **\$350- 25 Compounds via EPA 533 Isotope Dilution Method**
\$175- Field Blank Analysis (Field Blanks are required for Compliance reporting)

☒ State Drinking Water Program **Please enter the PWSID if this is to be reported to the State of Maine DWP PWSID# ME0090080

☐ Operations and Maintenance Only

Due to the specialized nature of the analysis, all options require subcontracting to a certified lab.

LAB USE ONLY

DATE/TIME RECEIVED: 11/5/2024 740

TEMPERATURE [°C]: ICE U AMBIENT

OUT OF HOLD TIME: YES ☐ NO ☒

PROPER CONTAINER: YES ☒ NO ☐

METHOD OF DELIVERY: WALK IN ☐ MAIL ☐ UPS/COURIER ☒ DROP BOX ☐

PAID ☐ BILL ☒ NO CHG ☐

☐ CK# ☐ CC ☐ CASH A&L INITIALS MF

Alpha bottles