Brunswick County Public Utilities - NC

PO Box 249
Bolivia, NC 28422-0249

Leland, NC

Client Project# NORTHWEST WATER PLANT
Samples Received: 10/17/2025

Analytical Report
1025-864

PFAS by Isotope Dilution (non-potable water)

Report Issue Date: 11/13/2025

I certify that to the best of my knowledge all analytical data presented in this report have been checked for completeness, accuracy, errors and legibility in addition to having been conducted in accordance with approved protocol, and that all deviations and analytical problems are summarized in the appropriate narrative(s). This analytical report was prepared in Portable Document Format (.PDF) and contains 28 pages. This report shall not be reproduced except in full without approval of the laboratory. This will provide assurance that parts of the report are not taken out of context.

Amendment(s):

Signature:

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Narrative Summary

Enthalpy Analytical Narrative Summary

Company	Brunswick County Public Utilities - NC
Job No.	1025-864-1
Client ID.	NORTHWEST WATER PLANT Site: Leland, NC

1. Custody

Lilli Stanley received the samples at 3.4 °C after being relinquished by Brunswick County Public Utilities - NC.

The samples were received in good condition, but without chain of custody documentation. Prior to, during, and after analysis, the samples were kept under lock with access only to authorized personnel by Enthalpy Analytical, LLC.

Table 1 - Sample Inventory

EU Lab Sample ID	Client Sample ID	Matrix	Received
1025-864-001-1	101725 S01	aqueous	2025-10-17
1025-864-001-2	101725 S01	aqueous	2025-10-17
1025-864-002-1	101725 E01	aqueous	2025-10-17
1025-864-002-2	101725 E01	aqueous	2025-10-17

2. Methods and Analytes

A list of analytes of interest and corresponding methods of analysis is shown in Table 3. Abbreviations are defined in the listed Appendices.

Table 3 - Methods and Analytes

EU Method	Analytes	Cleanup Method
EU047	Brunswick List	ENVI-Carb

3. Analysis

The samples were analyzed using LC/MS/MS instruments Gimli and Jetfire.

The samples were analyzed using more than one batch preparation and instrument sequence to include all analytes of interest.

The samples were analyzed on more than one instrument sequence in order to meet method acceptance criteria.

Polar compound PFPrA in the samples, including the method blank (MB) and Ongoing Precision Recovery (OPR) samples, was analyzed by direct inject calibration.

Enthalpy Analytical Narrative Summary

Company	Brunswick County Public Utilities - NC
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4. Calibration

In the initial calibration, the reported analytes exhibited R^2 of ≥ 0.99. The reported analytes in the calibration standards, Initial Calibration Verification (ICV) and continuing calibration (concal) met the accuracy criterion for native analytes.

The Standards that did not were:

• SID BQ06 (Hydrolyzed PSDA, PFO2HxA)
• SID BQ07 (Hydrolyzed PSDA, PFO2HxA)

When analyte(s) exceed method control limits in the concals but are not detected >LOQ in the samples, the data is reported without adverse impact. Where an impacted analyte was detected >LOQ, the sample was reinjected to meet method criteria.

5. QC Notes

Ongoing Precision Recovery (OPR) control limits have not been established for some analytes of interest.

The QC sample analyses passed all method criteria.

PFAS by Isotope Dilution (non-potable water) samples were extracted within 28 days, and extracts analyzed within 28 days.

6. Reporting Notes

The results presented in this report are representative of the samples as provided to the laboratory.

This report provides all results including detections below LOD following client instruction.

These analyses met the requirements of the TNI Standard. Any deviations from the requirements of the reference method or TNI Standard have been stated above.

Enthalpy Analytical, LLC in Wilmington NC is accredited by the Louisiana Department of Environmental Quality to the 2016 TNI Standard under certificate number 05075.

General Reporting Notes – Data Qualifiers

The following are general reporting notes that are applicable to all Enthalpy Analytical, LLC - Wilmington, NC data reports, unless specifically noted otherwise.

General Data Qualifiers

- Ac - Alternate calculation flag indicates the es recovery was calculated using the opening concal when either of the following situations is encountered in the data processing software: the ES recovery is over 400% or the JS is not detected.
- B – The analyte was found in the method blank, at a concentration that was at least 10% of the amount in the sample.
- Cxx – Two or more congeners co-elute. In EDDs, C denotes the lowest IUPAC congener in a co-elution group and additional co-eluters for the group ('xx') are shown with the number of the lowest IUPAC co-eluter**.**
- E – The reported concentration exceeds the calibration range (upper point of the calibration curve). For HRMS data, this condition does not imply additional measurement uncertainty. For LC-MS/MS data, these values should be considered as having measurement uncertainty higher than values within the calibration range.
- EDL – Estimated Detection Level: The EDL is unique to isotope dilution methods and reflects the conditions of analysis at the time of analysis, including the equipment used. Where the MDL is a static value, the EDL is a dynamic value.
- EMPC – Estimated Maximum Possible Concentration: EMPC is specific to Dioxin/Furan tests to indicate the determined ion-abundance ratio was outside the allowed theoretical range (usually due to being near the detection limit, although it can very rarely be caused by a co-eluting interference). The EMPC concentration is adjusted to reflect the value at the theoretical ion-abundance ratio.
- I/IR – The ion ratio between the primary and secondary ions was observed to be outside the method criteria. The analyte concentration may be inaccurate due to interference.
- J – The analyte has a concentration below the minimum calibration level (LOQ value) but greater than the LOD. These values should be considered as having measurement uncertainty higher than values within the calibration range
- L - For reports containing PFAS analytes only, this flag indicates that an analyte has a concentration below the Minimum Detection Limit (MDL) . The reported concentration is not recommended for regulatory use as the analyte signal may have a signal-to-noise ratio less than the criteria deemed necessary to be considered a detected analyte.
- LOD – Limit of Detection: For reports conforming to the DOD ELAP QSM, this is the QSM-defined LOD. For reports conforming to TNI requirements (but not DOD ELAP QSM requirements), this value is the minimum detection limit (MDL). The LOD is adjusted for sample weight or volume.

- LOQ – Limit of Quantitation: For reports conforming to the DOD ELAP QSM, this is the QSM-defined LOQ. For reports conforming to TNI requirements (but not DOD ELAP QSM requirements), this value is the reporting limit (RL). The LOQ is adjusted for sample weight or volume.
- <LOD() – Analyte was not found at a concentration high enough to be reported as detected. It is reported as less than the LOD, and the LOD is given in the parentheses.
- <LOQ() – Analyte was not found at a concentration high enough to be reported as above the QSM-defined LOQ or TNI defined Reporting Limit. It is reported as less than the LOQ, and the LOQ is given in the parentheses.
- ND – Indicates a non-detect.
- NR – Indicates a value that is not reportable due to issues observed in sample preparation or analysis.
- PR – The associated congener(s) is(are) poorly resolved.
- QI – Indicates the presence of a quantitative interference.
- RL – Reporting Limit. Lowest reportable value. The level is higher than the MDL.
- SI – Denotes "Single Ion Mode" and is utilized for PCBs where the secondary ion trace has a significantly elevated noise level due to background PFK. Responses for such peaks are calculated using an EMPC approach based solely on the primary ion area(s) and may be considered estimates.
- U – The analyte was not detected.
- V / Q – The labeled standard recovery is not within method control limits.
- X – Indicates the result is from re-injection/repeat/second-column analysis.

Lab Identifiers/ Data Attributes

- AR – Indicates use of the archived portion of the sample extract.
- CU – Indicates a sample that required additional clean-up prior to HRMS injection/processing.
- D – Dilution Data. Result was obtained from the analysis of a dilution. The number that follows the "D" indicates the dilution factor.
- DE – Indicates a dilution performed with the addition of ES (Extraction Standard) solution.
- DUP – Designation for a duplicate sample.
- MS – Designation for a matrix spike.
- MSD – Designation for a matrix spike duplicate.

General Reporting Notes – Data Qualifiers

- R – Indicates a re-extraction of the sample.
- RJ – Indicates a reinjection of the sample extract.
- S – Indicates a sample split. The number that follows the "S" indicates the split factor.
- SAT – Indicates an analyte saturated the detector.

PFAS Compound Acronym List			Methods					
Acronym	CAS #	Compound Name	SOP EU047	EPA 1633 (B-24)	EPA 1633X	EPA 537.1	EPA 533	EPA 8327*
Target Analytes								
PFBA	375-22-4	Perfluorobutanoic Acid	X	X	X		X	X
PFPeA	2706-90-3	Perfluoropentanoic Acid	X	X	X		X	X
PFHxA	307-24-4	Perfluorohexanoic Acid	X	X	X	X	X	X
PFHpA	375-85-9	Perfluoroheptanoic Acid	X	X	X	X	X	X
PFOA	335-67-1	Perfluorooctanoic Acid	X	X	X	X	X	X
PFNA	375-95-1	Perfluorononanoic Acid	X	X	X	X	X	X
PFDA	335-76-2	Perfluorodecanoic acid	X	X	X	X	X	X
PFUnA (PFUnDA)	2058-94-8	Perfluoroundecanoic acid	X	X	X	X	X	X
PFDoA (PFDoDA)	307-55-1	Perfluorododecanoic acid	X	X	X	X		X
PFTrDA (PFTriA, PFTrDA)	72629-94-8	Perfluorotridecanoic acid	X	X	X	X		X
PFTeDA (PFTA, PFTreA)	376-06-7	Perfluorotetradecanoic acid	X	X	X	X		X
PFBS	375-73-5	Perfluorobutane sulfonic acid	X	X	X	X	X	X
PFPeS	2706-91-4	Perfluoropentane sulfonic acid	X	X	X		X	X
PFHxS	355-46-4	Perfluorohexane sulfonic acid	X	X	X	X	X	X
PFHpS	375-92-8	Perfluoroheptane sulfonic acid	X	X	X		X	X
PFOS	1763-23-1	Perfluorooctane sulfonic acid	X	X	X	X	X	X
PFNS	68259-12-1	Perfluorononane sulfonic acid	X	X	X			X
PFDS	335-77-3	Perfluorodecane sulfonic acid	X	X	X			X
4:2 FTS	757124-72-4	4:2 fluorotelomer sulfonic acid	X	X	X		X	X
6:2 FTS	27619-97-2	6:2 fluorotelomer sulfonic acid	X	X	X		X	X
8:2 FTS	39108-34-4	8:2 fluorotelomer sulfonic acid	X	X	X		X	X
10:2 FTS	120226-60-0	Fluorotelomer sulfonate 10:2						X
FHxSA	41997-13-1	Perfluorohexanesulfonamide			X			X
PFOSA (FOSA)	754-91-6	Perfluorooctane sulfonamide	X	X	X			X
N-MeFOSAA	2355-31-9	N-methyl perfluorooctane sulfonamido acetic acid	X	X	X	X		X
N-MeFOSA	31506-32-8	N-methylperfluoro-1-octanesulfonamide	X	X	X			X
N-MeFOSE	24448-09-7	2-(N-methylperfluoro-1-octanesulfonamido)-ethanol	X	X	X			X
N-EtFOSAA	2991-50-6	N-ethyl perfluorooctane sulfonamido acetic acid	X	X	X	X		X
N-EtFOSA	4151-50-2	N-ethylperfluoro-1-octanesulfonamide	X	X	X			X
N-EtFOSE	1691-99-2	2-(N-Ethylperfluoro-1-octanesulfonamido)-ethanol	X	X	X			X
HFPO-DA	13252-13-6	Hexafluoropropyleneoxide dimer acid (GenX)	X	X	X	X	X	X
11Cl-PF3OUdS	763051-92-9	11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	X	X	X	X	X	X
9Cl-PF3ONS	756426-58-1	9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	X	X	X	X	X	X
ADONA	919005-14-4	4,8-dioxa-3H-perfluorononanoic acid	X	X	X	X	X	X
PFEESA	113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid		X	X		X	X
PFMOBA (PFMBA)	863090-89-5	Perfluoro-4-methoxybutanoic acid		X	X		X	X
NFDHA	151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid		X	X		X	X
PFMOPrA (PFMPA)	377-73-1	Perfluoro-3-methoxypropanoic acid		X	X		X	X
PFPrA	422-64-0	Perfluoropropionic acid, 2,2,3,3,3-Pentafluoropropionic acid			X			
PFPrS (PFPS)	423-41-6	Perfluoropropanesulfonic acid			X			X

PFAS Compound Acronym List			Methods					
Acronym	CAS #	Compound Name	SOP EU047	EPA 1633 (B-24)	EPA 1633X	EPA 537.1	EPA 533	EPA 8327*
PFMOAA	674-13-5	Perfluoro-2-methoxyacetic acid;			X			X
PFO2HxA	39492-88-1	Perfluoro (3,5-dioxahexanoic) acid			X			X
PFO3OA	39492-89-2	Perfluoro (3,5,7-trioxaoctanoic) acid			X			X
PFO4DA	39492-90-5	Perfluoro (3,5,7,9-tetraoxadecanoic) acid			X			X
PFO5DA	39492-91-6	Perfluoro(3,5,7,9,11-pentaoxadodecanoic) acid			X			X
Nafion Byproduct 1 (PS Acid)	29311-67-9	1,1,2,2-tetrafluoro-2-[1,1,1,2,3,3-hexafluoro-3-(1,2,2-trifluoroethenoxy)propan-2-yl]oxyethanesulfonic acid			X			X
Nafion Byproduct 2 (Hydro-PS Acid)	749836-20-2	Perfluoro-2-{[perfluoro-3-(perfluoroethoxy)-2-propanyl]oxy}ethanesulfonic acid (Hydro-PS Acid)			X			X
PEPA	267239-61-2	Perfluoro-2-ethoxypropanoic acid			X			X
PMPA	13140-29-9	Perfluoro-2-methoxypropanoic acid			X			X
PFECA-G, (PFPE-1)	801212-59-9	4-(Heptafluoroisopropoxy)hexafluorobutanoic acid, Perfluoro-4-isopropoxybutanoic acid			X			X
PFHxDA	67905-19-5	Perfluorohexadecanoic acid			X			
R-PSDA (Nafion Byproduct 4)	2416366-18-0	Perfluoro-4-(2-sulfoethoxy)pentanoic acid; 2,2,3,3,4,5,5,5-Octafluoro-4-(1,1,2,2-tetrafluoro-2-sulfoethoxy)pentanoic acid			X			X
Hydrolyzed PSDA (Nafion Byproduct 5)	2416366-19-1	2-fluoro-2-[1,1,2,3,3,3-hexafluoro-2-(1,1,2,2-tetrafluoro-2-sulfoethoxy)propoxy]-acetic acid			X			X
R-PSDCA (Nafion Byproduct 6)	2416366-21-5	1,1,2,2-tetrafluoro-2-[1,2,2,3,3-pentafluoro-1-(trifluoromethyl)propoxy] ethanesulfonic acid			X			X
EVE Acid	69087-46-3	2,2,3,3-tetrafluoro-3-({1,1,1,2,3,3-hexafluoro-3-[(1,2,2-trifluoroethenyl)oxy]propan-2-yl}oxy)propionic acid			X			X
FBSA	30334-69-1	Perfluorobutylsulfonamide			X			X
MeFBSA	68298-12-4	1-Butanesulfonamide; (N-(Methyl)nonafluorobutanesulfonamide); 1,1,2,2,3,3,4,4,4-nonafluoro-N-methyl-1-Butanesulfonamide			X			X
Hydro-EVE Acid	773804-62-9	2,2,3,3-Tetrafluoro-3-{[1,1,1,2,3,3-hexafluoro-3-(1,2,2,2-tetrafluoroethoxy)propan-2-yl]oxy}propanoic acid			X			X
R-EVE Acid	2416366-22-6	4-(2-carboxy-1,1,2,2-tetrafluoroethoxy)-2,2,3,3,4,5,5,5-octafluoro-pentanoic acid			X			X
NVHOS	1132933-86-8	Perfluoroethoxysulfonic acid; 1,1,2,2-Tetrafluoro-2-(1,2,2,2-tetrafluoroethoxy)ethane-1-sulfonic acid			X			X

PFAS Compound Acronym List			Methods					
Acronym	CAS #	Compound Name	SOP EU047	EPA 1633 (B-24)	EPA 1633X	EPA 537.1	EPA 533	EPA 8327*
PFDoS	79780-39-5	Perfluorododecane sulfonic acid		X	X			X
PFODA	16517-11-6	Perfluorooctadecanoic acid			X			
3:3 FTCA	356-02-5	2H,2H,3H,3H-Perfluorohexanoic acid		X	X			X
5:3 FTCA	914637-49-3	2H,2H,3H,3H-Perfluorooctanoic acid		X	X			X
7:3 FTCA	812-70-4	2H,2H,3H,3H-Perfluorodecanoic acid		X	X			X
N-AP-FHxSA	50598-28-2	N-(3-(Dimethylamino)propyl)tridecafluoro-1-hexanesulfonamide			X			X
N-CMAmP-6:2 FOSA	34455-29-3	N-(Carboxymethyl)-N,N-dimethyl-3-(((3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)sulfonyl)amino)1-propanaminium			X			X
BPAF	1478-61-1	Bisphenol AF			X			X
HQ-115	90076-65-6	Bis(trifluoromethane)sulfonimide lithium salt			X			X

* Accreditation pending

Results

Enthalpy Analytical

Job No.: 1025-864-1 PFAS by Isotope Dilution (non-potable water)

Brunswick County Public Utilities - NC NORTHWEST WATER PLANT Leland, NC

Summary

	Compound	CAS	101725 S01 ng/L	101725 E01 ng/L
Acids	PFPrA	422-64-0	ND U	ND U
	PFBA	375-22-4	4.88	4.82
	PFPeA	2706-90-3	10.3	10.3
	PFHxA	307-24-4	6.76	7.32
	PFHpA	375-85-9	3.42	3.67
	PFOA	335-67-1	6.07	6.04
	PFNA	375-95-1	0.630	0.651
	PFDA	335-76-2	0.317 J	0.312 J
	PFUnDA	2058-94-8	ND U	ND U
	PFDoDA	307-55-1	ND U	ND U
	PFTrDA	72629-94-8	ND U	ND U
	PFTeDA	376-06-7	ND U	ND U
	PFHxDA	67905-19-5	ND U	ND U
Sulfonates	PFBS	375-73-5	4.46	4.40
	PFPeS	2706-91-4	0.690	0.816
	PFHxS	355-46-4	5.13	5.39
	PFHpS	375-92-8	0.189 L	0.214 L
	PFOS	1763-23-1	12.1	12.8
	PFNS	68259-12-1	ND U	ND U
	PFDS	335-77-3	ND U	ND U
	4:2 FTS	757124-72-4	ND U	ND U
	6:2 FTS	27619-97-2	0.120 L	0.179 L
	8:2 FTS	39108-34-4	ND U	ND U
	10:2 FTS	120226-60-0	ND U	ND U
Sulfonamidos	FBSA	30334-69-1	0.854	0.771
	N-EtFOSA	4151-50-2	ND U	ND U
	N-EtFOSAA	2991-50-6	ND U	ND U
	N-EtFOSE	1691-99-2	ND U	ND U
	N-MeFOSA	31506-32-8	ND U	ND U
	N-MeFOSAA	2355-31-9	ND U	ND U
	N-MeFOSE	24448-09-7	ND U	ND U
	PFOSA	754-91-6	0.0107 L	0.486 J
PFECAs	ADONA	919005-14-4	ND U	ND U
	EVE Acid	69087-46-3	ND U	ND U
	HFPO-DA	13252-13-6	3.47	3.39
	Hydro-EVE Acid	773804-62-9	0.0482 L	0.0672 L
	NFDHA	151772-58-6	ND U	ND U
	PEPA	267239-61-2	1.95	2.10
	PFECA-G	801212-59-9	ND U	ND U
	PFMOAA	674-13-5	4.15	3.83
	PFMOBA	863090-89-5	ND U	ND U
	PFMOPrA	377-73-1	0.0524 L	0.0493 L
	PFO2HxA	39492-88-1	4.85	4.71
	PFO3OA	39492-89-2	0.807	0.705
	PFO4DA	39492-90-5	ND U	ND U
	PFO5DA	39492-91-6	ND U	ND U
	PMPA	13140-29-9	5.44	5.55
	R-EVE	2416366-22-6	3.79	4.58
PFESAs	11Cl-PF3OUdS	763051-92-9	ND U	ND U
	9Cl-PF3ONS	756426-58-1	ND U	ND U
	Hydrolyzed PSDA	2416366-19-1	3.07	2.98
	Nafion Byproduct 1 (PS Acid)	29311-67-9	ND U	ND U
	Nafion Byproduct 2 (Hydro-PS Acid)	749836-20-2	0.404 L	0.400 L
	NVHOS	1132933-86-8	6.19	4.93
	PFEESA	113507-82-7	ND U	ND U
	R-PSDA	2416366-18-0	7.52	7.52
	R-PSDCA	2416366-21-5	ND U	ND U

Enthalpy Analytical

Job No.: 1025-864-1 PFAS by Isotope Dilution (non-potable water)

Brunswick County Public Utilities - NC NORTHWEST WATER PLANT Leland, NC

Details

Sample Name	101725 S01		
Sampling Site			
Enthalpy ID	1025-864-001-1	Prep Batch	EU119079
Matrix	aqueous	Analyst	emilymorrison
Sampling Date	2025-10-17 10:00	Instrument	Gimli
Received Date	2025-10-17	Sample Vol mL	285.18
Prep Date	2025-10-21 14:12	Extract Vol mL	0.4
AnalysisDate	2025-10-22 08:10	Split Factor	N/A
SampleType	Sample	Method Code	EU-047-NPW
Bottle ID	A		

	Compound	CAS	Injection File Name	Sample Concentration ng/L	LOD ng/L	LOQ ng/L	Recovery Limits	Recovery	Flags
Acids	PFBA	375-22-4	GI211025072	4.88	0.223	0.561			
	PFPeA	2706-90-3	GI211025072	10.3	0.160	0.561			
	PFHxA	307-24-4	GI211025072	6.76	0.188	0.561			
	PFHpA	375-85-9	GI211025072	3.42	0.196	0.561			
	PFOA	335-67-1	GI211025072	6.07	0.128	0.561			
	PFNA	375-95-1	GI211025072	0.630	0.127	0.561			
	PFDA	335-76-2	GI211025072	0.317	0.160	0.561			J
	PFUnDA	2058-94-8	GI211025072	ND	0.127	0.561			U
	PFDoDA	307-55-1	GI211025072	ND	0.228	0.561			U
	PFTrDA	72629-94-8	GI211025072	ND	0.186	0.561			U
	PFTeDA	376-06-7	GI211025072	ND	0.214	0.561			U
	PFHxDA	67905-19-5	GI211025072	ND	0.298	0.561			U
Sulfonates	PFBS	375-73-5	GI211025072	4.46	0.298	0.561			
	PFPeS	2706-91-4	GI211025072	0.690	0.115	0.529			
	PFHxS	355-46-4	GI211025072	5.13	0.433	0.514			
	PFHpS	375-92-8	GI211025072	0.189	0.272	0.534			L
	PFOS	1763-23-1	GI211025072	12.1	0.296	0.520			
	PFNS	68259-12-1	GI211025072	ND	0.174	0.540			U
	PFDS	335-77-3	GI211025072	ND	0.295	0.540			U
	4:2 FTS	757124-72-4	GI211025072	ND	0.0728	0.526			U
	6:2 FTS	27619-97-2	GI211025072	0.120	0.265	0.534			L
	8:2 FTS	39108-34-4	GI211025072	ND	0.126	0.537			U
	10:2 FTS	120226-60-0	GI211025072	ND	0.430	0.561			U
Sulfonamidos	FBSA	30334-69-1	GI211025072	0.854	0.266	0.561			
	N-EtFOSA	4151-50-2	GI211025072	ND	0.347	0.561			U
	N-EtFOSAA	2991-50-6	GI211025072	ND	0.228	0.561			U
	N-EtFOSE	1691-99-2	GI211025072	ND	0.859	2.52			U
	N-MeFOSA	31506-32-8	GI211025072	ND	0.231	0.561			U
	N-MeFOSAA	2355-31-9	GI211025072	ND	0.158	0.561			U
	N-MeFOSE	24448-09-7	GI211025072	ND	0.533	2.52			U
	PFOSA	754-91-6	GI211025072	0.0107	0.0787	0.561			L
PFECAs	ADONA	919005-14-4	GI211025072	ND	0.152	0.532			U
	EVE Acid	69087-46-3	GI211025072	ND	0.179	1.26			U
	HFPO-DA	13252-13-6	GI211025072	3.47	0.0594	0.561			
	Hydro-EVE Acid	773804-62-9	GI211025072	0.0482	0.184	0.561			L
	NFDHA	151772-58-6	GI211025072	ND	0.118	0.561			U
	PEPA	267239-61-2	GI211025072	1.95	0.105	0.561			
	PFECA-G	801212-59-9	GI211025072	ND	0.0749	0.561			U
	PFMOAA	674-13-5	GI211025072	4.15	0.284	0.561			
	PFMOBA	863090-89-5	GI211025072	ND	0.942	1.26			U
	PFMOPrA	377-73-1	GI211025072	0.0524	0.200	0.561			L
	PFO2HxA	39492-88-1	GI251025036	4.85	0.181	0.561			
	PFO3OA	39492-89-2	GI211025072	0.807	0.258	0.561			
	PFO4DA	39492-90-5	GI211025072	ND	0.444	2.81			U
	PFO5DA	39492-91-6	GI211025072	ND	0.449	2.81			U
	PMPA	13140-29-9	GI211025072	5.44	0.132	0.561			
	R-EVE	2416366-22-6	GI211025072	3.79	0.931	1.26			
PFESAs	11Cl-PF3OUdS	763051-92-9	GI211025072	ND	0.265	0.529			U
	9Cl-PF3ONS	756426-58-1	GI211025072	ND	0.359	0.523			U
	Hydrolyzed PSDA	2416366-19-1	GI251025036	3.07	0.373	0.561			
	Nafion Byproduct 1 (PS Acid)	29311-67-9	GI211025072	ND	0.300	0.561			U
	Nafion Byproduct 2 (Hydro-PS Acid)	749836-20-2	GI211025072	0.404	0.465	0.561			L
	NVHOS	1132933-86-8	GI211025072	6.19	0.0864	0.561			
	PFEESA	113507-82-7	GI211025072	ND	0.169	0.561			U
	R-PSDA	2416366-18-0	GI211025072	7.52	2.47	2.47			
	R-PSDCA	2416366-21-5	GI211025072	ND	0.237	0.561			U
ES	MPFBA		GI211025072				20-150%	62.4%	
	M5PFPeA		GI211025072				20-150%	65.8%	
	M3PFBS		GI211025072				20-150%	111%	
	M2-4:2 FTS		GI211025072				20-150%	69.6%	
	M5PFHxA		GI211025072				20-150%	105%	
	M3HFPO-DA		GI211025072				20-150%	129%	

Enthalpy Analytical

Job No.: 1025-864-1 PFAS by Isotope Dilution (non-potable water)

Brunswick County Public Utilities - NC NORTHWEST WATER PLANT Leland, NC

Details

Sample Name	101725 S01		
Sampling Site			
Enthalpy ID	1025-864-001-1	Prep Batch	EU119079
Matrix	aqueous	Analyst	emilymorrison
Sampling Date	2025-10-17 10:00	Instrument	Gimli
Received Date	2025-10-17	Sample Vol mL	285.18
Prep Date	2025-10-21 14:12	Extract Vol mL	0.4
AnalysisDate	2025-10-22 08:10	Split Factor	N/A
SampleType	Sample	Method Code	EU-047-NPW
Bottle ID	A		

	Compound	CAS	Injection File Name	Sample Concentration ng/L	LOD ng/L	LOQ ng/L	Recovery Limits	Recovery	Flags
	M4PFHpA		GI211025072				20-150%	103%	
	M3PFHxS		GI211025072				20-150%	94.6%	
	M2-6:2 FTS		GI211025072				20-150%	45.5%	
	M8PFOA		GI211025072				20-150%	94.1%	
	M9PFNA		GI211025072				20-150%	96.9%	
	M8PFOS		GI211025072				20-150%	96.9%	
	M2-8:2 FTS		GI211025072				20-150%	40.7%	
	M8FOSA-I		GI211025072				20-150%	95.6%	
	M6PFDA		GI211025072				20-150%	95.6%	
	d3-N-MeFOSAA		GI211025072				20-150%	47.1%	
	d5-N-EtFOSAA		GI211025072				20-150%	45.8%	
	M7PFUdA		GI211025072				20-150%	93.6%	
	MPFDoA		GI211025072				20-150%	83.5%	
	M2PFTeDA		GI211025072				20-150%	53.8%	
	d3-N-MeFOSA		GI211025072				10-200%	42.4%	
	d5-N-EtFOSA		GI211025072				10-200%	33.1%	
	d7-N-MeFOSE		GI211025072				10-200%	86.4%	
	d9-N-EtFOSE		GI211025072				10-200%	62.4%	

Enthalpy Analytical

Job No.: 1025-864-1 PFAS by Isotope Dilution (non-potable water)

Brunswick County Public Utilities - NC NORTHWEST WATER PLANT Leland, NC

Details

Sample Name	101725 S01		
Sampling Site			
Enthalpy ID	1025-864-001-2	Prep Batch	EU119062
Matrix	aqueous	Analyst	bmay
Sampling Date	2025-10-17 10:00	Instrument	Jetfire
Received Date	2025-10-17	Sample Vol mL	0.1
Prep Date	2025-10-21 17:15	Extract Vol mL	0.2
AnalysisDate	2025-10-21 20:48	Split Factor	N/A
SampleType	Sample	Method Code	EU-047-NPW
Bottle ID	B		

	Compound	CAS	Injection File Name	Sample Concentration ng/L	LOD ng/L	LOQ ng/L	Recovery Limits	Recovery	Flags
Acids	PFPrA	422-64-0	J211025-10212048	ND	700	1530			U
ES	13C3-PFPrA		J211025-10212048				20-150%	106%	

Enthalpy Analytical

Job No.: 1025-864-1 PFAS by Isotope Dilution (non-potable water)

Brunswick County Public Utilities - NC NORTHWEST WATER PLANT Leland, NC

Details

Sample Name	101725 E01		
Sampling Site			
Enthalpy ID	1025-864-002-1	Prep Batch	EU119079
Matrix	aqueous	Analyst	emilymorrison
Sampling Date	2025-10-17 10:00	Instrument	Gimli
Received Date	2025-10-17	Sample Vol mL	288.63
Prep Date	2025-10-21 14:12	Extract Vol mL	0.4
AnalysisDate	2025-10-22 08:32	Split Factor	N/A
SampleType	Sample	Method Code	EU-047-NPW
Bottle ID	A		

	Compound	CAS	Injection File Name	Sample Concentration ng/L	LOD ng/L	LOQ ng/L	Recovery Limits	Recovery	Flags
Acids	PFBA	375-22-4	GI211025073	4.82	0.220	0.554			
	PFPeA	2706-90-3	GI211025073	10.3	0.159	0.554			
	PFHxA	307-24-4	GI211025073	7.32	0.185	0.554			
	PFHpA	375-85-9	GI211025073	3.67	0.194	0.554			
	PFOA	335-67-1	GI211025073	6.04	0.127	0.554			
	PFNA	375-95-1	GI211025073	0.651	0.125	0.554			
	PFDA	335-76-2	GI211025073	0.312	0.159	0.554			J
	PFUnDA	2058-94-8	GI211025073	ND	0.125	0.554			U
	PFDoDA	307-55-1	GI211025073	ND	0.225	0.554			U
	PFTrDA	72629-94-8	GI211025073	ND	0.184	0.554			U
	PFTeDA	376-06-7	GI211025073	ND	0.211	0.554			U
	PFHxDA	67905-19-5	GI211025073	ND	0.294	0.554			U
Sulfonates	PFBS	375-73-5	GI211025073	4.40	0.294	0.554			
	PFPeS	2706-91-4	GI211025073	0.816	0.114	0.522			
	PFHxS	355-46-4	GI211025073	5.39	0.428	0.508			
	PFHpS	375-92-8	GI211025073	0.214	0.269	0.528			L
	PFOS	1763-23-1	GI211025073	12.8	0.293	0.513			
	PFNS	68259-12-1	GI211025073	ND	0.172	0.534			U
	PFDS	335-77-3	GI211025073	ND	0.291	0.534			U
	4:2 FTS	757124-72-4	GI211025073	ND	0.0719	0.519			U
	6:2 FTS	27619-97-2	GI211025073	0.179	0.262	0.528			L
	8:2 FTS	39108-34-4	GI211025073	ND	0.124	0.531			U
	10:2 FTS	120226-60-0	GI211025073	ND	0.424	0.554			U
Sulfonamidos	FBSA	30334-69-1	GI211025073	0.771	0.263	0.554			
	N-EtFOSA	4151-50-2	GI211025073	ND	0.343	0.554			U
	N-EtFOSAA	2991-50-6	GI211025073	ND	0.225	0.554			U
	N-EtFOSE	1691-99-2	GI211025073	ND	0.849	2.49			U
	N-MeFOSA	31506-32-8	GI211025073	ND	0.229	0.554			U
	N-MeFOSAA	2355-31-9	GI211025073	ND	0.156	0.554			U
	N-MeFOSE	24448-09-7	GI211025073	ND	0.527	2.49			U
	PFOSA	754-91-6	GI211025073	0.486	0.0778	0.554			J
PFECAs	ADONA	919005-14-4	GI211025073	ND	0.150	0.525			U
	EVE Acid	69087-46-3	GI211025073	ND	0.177	1.25			U
	HFPO-DA	13252-13-6	GI211025073	3.39	0.0587	0.554			
	Hydro-EVE Acid	773804-62-9	GI211025073	0.0672	0.182	0.554			L
	NFDHA	151772-58-6	GI211025073	ND	0.117	0.554			U
	PEPA	267239-61-2	GI211025073	2.10	0.104	0.554			
	PFECA-G	801212-59-9	GI211025073	ND	0.0740	0.554			U
	PFMOAA	674-13-5	GI211025073	3.83	0.281	0.554			
	PFMOBA	863090-89-5	GI211025073	ND	0.930	1.25			U
	PFMOPrA	377-73-1	GI211025073	0.0493	0.197	0.554			L
	PFO2HxA	39492-88-1	GI251025037	4.71	0.178	0.554			
	PFO3OA	39492-89-2	GI211025073	0.705	0.255	0.554			
	PFO4DA	39492-90-5	GI211025073	ND	0.438	2.77			U
	PFO5DA	39492-91-6	GI211025073	ND	0.443	2.77			U
	PMPA	13140-29-9	GI211025073	5.55	0.131	0.554			
	R-EVE	2416366-22-6	GI211025073	4.58	0.920	1.25			
PFESAs	11Cl-PF3OUdS	763051-92-9	GI211025073	ND	0.262	0.522			U
	9Cl-PF3ONS	756426-58-1	GI211025073	ND	0.355	0.516			U
	Hydrolyzed PSDA	2416366-19-1	GI251025037	2.98	0.369	0.554			
	Nafion Byproduct 1 (PS Acid)	29311-67-9	GI211025073	ND	0.296	0.554			U
	Nafion Byproduct 2 (Hydro-PS Acid)	749836-20-2	GI211025073	0.400	0.459	0.554			L
	NVHOS	1132933-86-8	GI211025073	4.93	0.0854	0.554			
	PFEESA	113507-82-7	GI211025073	ND	0.167	0.554			U
	R-PSDA	2416366-18-0	GI211025073	7.52	2.44	2.44			
	R-PSDCA	2416366-21-5	GI211025073	ND	0.234	0.554			U
ES	MPFBA		GI211025073				20-150%	62.5%	
	M5PFPeA		GI211025073				20-150%	71.6%	
	M3PFBS		GI211025073				20-150%	123%	
	M2-4:2 FTS		GI211025073				20-150%	72.7%	
	M5PFHxA		GI211025073				20-150%	111%	
	M3HFPO-DA		GI211025073				20-150%	135%	

Enthalpy Analytical

Job No.: 1025-864-1 PFAS by Isotope Dilution (non-potable water)

Brunswick County Public Utilities - NC NORTHWEST WATER PLANT Leland, NC

Details

Sample Name	101725 E01		
Sampling Site			
Enthalpy ID	1025-864-002-1	Prep Batch	EU119079
Matrix	aqueous	Analyst	emilymorrison
Sampling Date	2025-10-17 10:00	Instrument	Gimli
Received Date	2025-10-17	Sample Vol mL	288.63
Prep Date	2025-10-21 14:12	Extract Vol mL	0.4
AnalysisDate	2025-10-22 08:32	Split Factor	N/A
SampleType	Sample	Method Code	EU-047-NPW
Bottle ID	A		

	Compound	CAS	Injection File Name	Sample Concentration ng/L	LOD ng/L	LOQ ng/L	Recovery Limits	Recovery	Flags
	M4PFHpA		GI211025073				20-150%	111%	
	M3PFHxS		GI211025073				20-150%	98.5%	
	M2-6:2 FTS		GI211025073				20-150%	49.3%	
	M8PFOA		GI211025073				20-150%	103%	
	M9PFNA		GI211025073				20-150%	104%	
	M8PFOS		GI211025073				20-150%	98.8%	
	M2-8:2 FTS		GI211025073				20-150%	43.2%	
	M8FOSA-I		GI211025073				20-150%	96.3%	
	M6PFDA		GI211025073				20-150%	97.9%	
	d3-N-MeFOSAA		GI211025073				20-150%	48.2%	
	d5-N-EtFOSAA		GI211025073				20-150%	49.0%	
	M7PFUdA		GI211025073				20-150%	97.5%	
	MPFDoA		GI211025073				20-150%	91.4%	
	M2PFTeDA		GI211025073				20-150%	82.5%	
	d3-N-MeFOSA		GI211025073				10-200%	23.2%	
	d5-N-EtFOSA		GI211025073				10-200%	20.1%	
	d7-N-MeFOSE		GI211025073				10-200%	117%	
	d9-N-EtFOSE		GI211025073				10-200%	104%	

Enthalpy Analytical

Job No.: 1025-864-1 PFAS by Isotope Dilution (non-potable water)

Brunswick County Public Utilities - NC NORTHWEST WATER PLANT Leland, NC

Details

Sample Name	101725 E01		
Sampling Site			
Enthalpy ID	1025-864-002-2	Prep Batch	EU119062
Matrix	aqueous	Analyst	bmay
Sampling Date	2025-10-17 10:00	Instrument	Jetfire
Received Date	2025-10-17	Sample Vol mL	0.1
Prep Date	2025-10-21 17:15	Extract Vol mL	0.2
AnalysisDate	2025-10-21 21:00	Split Factor	N/A
SampleType	Sample	Method Code	EU-047-NPW
Bottle ID	B		

	Compound	CAS	Injection File Name	Sample Concentration ng/L	LOD ng/L	LOQ ng/L	Recovery Limits	Recovery	Flags
Acids	PFPrA	422-64-0	J211025-10212100	ND	700	1530			U
ES	13C3-PFPrA		J211025-10212100				20-150%	100%	

QC Data

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Enthalpy Analytical

Job No.: 1025-864-1 PFAS by Isotope Dilution (non-potable water)

Brunswick County Public Utilities - NC NORTHWEST WATER PLANT Leland, NC

Details

Sample Name	MB_119062_PFAS		
Sampling Site			
Enthalpy ID	MB_119062_PFAS	Prep Batch	EU119062
Matrix	aqueous	Analyst	bmay
Sampling Date		Instrument	Jetfire
Received Date		Sample Vol mL	0.1
Prep Date	2025-10-21 17:15	Extract Vol mL	0.2
AnalysisDate	2025-10-21 20:13	Split Factor	N/A
SampleType	Blank	Method Code	EU-047-NPW
Bottle ID	-		

	Compound	CAS	Injection File Name	Sample Concentration ng/L	LOD ng/L	LOQ ng/L	Recovery Limits	Recovery	Flags
Acids	PFPrA	422-64-0	J211025-10212013	ND	700	1530			U
ES	13C3-PFPrA		J211025-10212013				20-150%	124%	

Enthalpy Analytical

Job No.: 1025-864-1 PFAS by Isotope Dilution (non-potable water)

Brunswick County Public Utilities - NC NORTHWEST WATER PLANT Leland, NC

Details

Sample Name	MB_119079_PFAS		
Sampling Site			
Enthalpy ID	MB_119079_PFAS	Prep Batch	EU119079
Matrix	aqueous	Analyst	emilymorrison
Sampling Date		Instrument	Gimli
Received Date		Sample Vol mL	250
Prep Date	2025-10-21 14:12	Extract Vol mL	0.4
AnalysisDate	2025-10-22 05:54	Split Factor	N/A
SampleType	Blank	Method Code	EU-047-NPW
Bottle ID	-		

	Compound	CAS	Injection File Name	Sample Concentration ng/L	LOD ng/L	LOQ ng/L	Recovery Limits	Recovery	Flags
Acids	PFBA	375-22-4	GI211025066	ND	0.254	0.640			U
	PFPeA	2706-90-3	GI211025066	ND	0.183	0.640			U
	PFHxA	307-24-4	GI211025066	0.000808	0.214	0.640			L
	PFHpA	375-85-9	GI211025066	ND	0.224	0.640			U
	PFOA	335-67-1	GI211025066	ND	0.146	0.640			U
	PFNA	375-95-1	GI211025066	ND	0.145	0.640			U
	PFDA	335-76-2	GI211025066	ND	0.183	0.640			U
	PFUnDA	2058-94-8	GI211025066	ND	0.145	0.640			U
	PFDoDA	307-55-1	GI211025066	ND	0.260	0.640			U
	PFTrDA	72629-94-8	GI211025066	ND	0.212	0.640			U
	PFTeDA	376-06-7	GI211025066	ND	0.244	0.640			U
	PFHxDA	67905-19-5	GI211025066	ND	0.340	0.640			U
Sulfonates	PFBS	375-73-5	GI211025066	ND	0.340	0.640			U
	PFPeS	2706-91-4	GI211025066	ND	0.131	0.603			U
	PFHxS	355-46-4	GI211025066	ND	0.494	0.586			U
	PFHpS	375-92-8	GI211025066	ND	0.310	0.610			U
	PFOS	1763-23-1	GI211025066	ND	0.338	0.593			U
	PFNS	68259-12-1	GI211025066	ND	0.199	0.616			U
	PFDS	335-77-3	GI211025066	ND	0.336	0.616			U
	4:2 FTS	757124-72-4	GI211025066	ND	0.0830	0.600			U
	6:2 FTS	27619-97-2	GI211025066	ND	0.302	0.610			U
	8:2 FTS	39108-34-4	GI211025066	ND	0.143	0.613			U
	10:2 FTS	120226-60-0	GI211025066	ND	0.490	0.640			U
Sulfonamidos	FBSA	30334-69-1	GI211025066	ND	0.304	0.640			U
	N-EtFOSA	4151-50-2	GI211025066	ND	0.396	0.640			U
	N-EtFOSAA	2991-50-6	GI211025066	ND	0.260	0.640			U
	N-EtFOSE	1691-99-2	GI211025066	ND	0.980	2.88			U
	N-MeFOSA	31506-32-8	GI211025066	ND	0.264	0.640			U
	N-MeFOSAA	2355-31-9	GI211025066	ND	0.180	0.640			U
	N-MeFOSE	24448-09-7	GI211025066	ND	0.608	2.88			U
	PFOSA	754-91-6	GI211025066	ND	0.0898	0.640			U
PFECAs	ADONA	919005-14-4	GI211025066	ND	0.173	0.606			U
	EVE Acid	69087-46-3	GI211025066	ND	0.204	1.44			U
	HFPO-DA	13252-13-6	GI211025066	ND	0.0678	0.640			U
	Hydro-EVE Acid	773804-62-9	GI211025066	ND	0.210	0.640			U
	NFDHA	151772-58-6	GI211025066	ND	0.135	0.640			U
	PEPA	267239-61-2	GI211025066	ND	0.120	0.640			U
	PFECA-G	801212-59-9	GI211025066	ND	0.0854	0.640			U
	PFMOAA	674-13-5	GI211025066	ND	0.324	0.640			U
	PFMOBA	863090-89-5	GI211025066	ND	1.07	1.44			U
	PFMOPrA	377-73-1	GI211025066	ND	0.228	0.640			U
	PFO2HxA	39492-88-1	GI211025066	ND	0.206	0.640			U
	PFO3OA	39492-89-2	GI211025066	ND	0.294	0.640			U
	PFO4DA	39492-90-5	GI211025066	ND	0.506	3.20			U
	PFO5DA	39492-91-6	GI211025066	ND	0.512	3.20			U
	PMPA	13140-29-9	GI211025066	ND	0.151	0.640			U
	R-EVE	2416366-22-6	GI211025066	ND	1.06	1.44			U
PFESAs	11Cl-PF3OUdS	763051-92-9	GI211025066	ND	0.302	0.603			U
	9Cl-PF3ONS	756426-58-1	GI211025066	ND	0.410	0.596			U
	Hydrolyzed PSDA	2416366-19-1	GI211025066	0.0846	0.426	0.640			L
	Nafion Byproduct 1 (PS Acid)	29311-67-9	GI211025066	ND	0.342	0.640			U
	Nafion Byproduct 2 (Hydro-PS Acid)	749836-20-2	GI211025066	ND	0.530	0.640			U
	NVHOS	1132933-86-8	GI211025066	ND	0.0986	0.640			U
	PFEESA	113507-82-7	GI211025066	ND	0.192	0.640			U
	R-PSDA	2416366-18-0	GI211025066	ND	2.82	2.82			U
	R-PSDCA	2416366-21-5	GI211025066	ND	0.270	0.640			U
ES	MPFBA		GI211025066				20-150%	91.2%	
	M5PFPeA		GI211025066				20-150%	56.6%	
	M3PFBS		GI211025066				20-150%	91.9%	
	M2-4:2 FTS		GI211025066				20-150%	63.3%	
	M5PFHxA		GI211025066				20-150%	102%	
	M3HFPO-DA		GI211025066				20-150%	128%	

Enthalpy Analytical

Job No.: 1025-864-1 PFAS by Isotope Dilution (non-potable water)

Brunswick County Public Utilities - NC NORTHWEST WATER PLANT Leland, NC

Details

Sample Name	MB_119079_PFAS		
Sampling Site			
Enthalpy ID	MB_119079_PFAS	Prep Batch	EU119079
Matrix	aqueous	Analyst	emilymorrison
Sampling Date		Instrument	Gimli
Received Date		Sample Vol mL	250
Prep Date	2025-10-21 14:12	Extract Vol mL	0.4
AnalysisDate	2025-10-22 05:54	Split Factor	N/A
SampleType	Blank	Method Code	EU-047-NPW
Bottle ID	-		

	Compound	CAS	Injection File Name	Sample Concentration ng/L	LOD ng/L	LOQ ng/L	Recovery Limits	Recovery	Flags
	M4PFHpA		GI211025066				20-150%	100%	
	M3PFHxS		GI211025066				20-150%	90.9%	
	M2-6:2 FTS		GI211025066				20-150%	43.4%	
	M8PFOA		GI211025066				20-150%	95.4%	
	M9PFNA		GI211025066				20-150%	94.2%	
	M8PFOS		GI211025066				20-150%	91.0%	
	M2-8:2 FTS		GI211025066				20-150%	39.1%	
	M8FOSA-I		GI211025066				20-150%	89.5%	
	M6PFDA		GI211025066				20-150%	92.8%	
	d3-N-MeFOSAA		GI211025066				20-150%	43.1%	
	d5-N-EtFOSAA		GI211025066				20-150%	44.4%	
	M7PFUdA		GI211025066				20-150%	90.9%	
	MPFDoA		GI211025066				20-150%	86.6%	
	M2PFTeDA		GI211025066				20-150%	85.3%	
	d3-N-MeFOSA		GI211025066				10-200%	84.8%	
	d5-N-EtFOSA		GI211025066				10-200%	86.3%	
	d7-N-MeFOSE		GI211025066				10-200%	116%	
	d9-N-EtFOSE		GI211025066				10-200%	110%	

Enthalpy Analytical

Job No.: 1025-864-1 PFAS by Isotope Dilution (non-potable water)

Brunswick County Public Utilities - NC NORTHWEST WATER PLANT Leland, NC

Details

Sample Name	OPR_119062_PFAS		
Sampling Site			
Enthalpy ID	OPR_119062_PFAS	Prep Batch	EU119062
Matrix	aqueous	Analyst	bmay
Sampling Date		Instrument	Jetfire
Received Date		Sample Vol mL	0.1
Prep Date	2025-10-21 17:15	Extract Vol mL	0.2
AnalysisDate	2025-10-21 20:25	Split Factor	N/A
SampleType	Control	Method Code	EU-047-NPW
Bottle ID	-		

	Compound	CAS	Injection File Name	Sample Concentration ng/L	LOD ng/L	LOQ ng/L	Recovery Limits	Recovery	Flags
Acids	PFPrA	422-64-0	J211025-10212025	15800	700	1530	40-150%	79.2%	
ES	13C3-PFPrA		J211025-10212025				20-150%	130%	

Enthalpy Analytical

Job No.: 1025-864-1 PFAS by Isotope Dilution (non-potable water)

Brunswick County Public Utilities - NC NORTHWEST WATER PLANT Leland, NC

Enthalpy ID	OPR_119079_PFAS	Prep Batch	EU119079	Sample Vol (mL)	250
Sample Name	OPR_119079_PFAS	Prep Date	2025-10-21 14:12	Extract Vol (mL)	0.4
Matrix	aqueous	Analysis Date	2025-10-22 06:16	Split Factor	N/A
Sampling Date		Analyst	emilymorrison	Method Code	EU-047-NPW
Received Date		Instrument	Gimli	Sample Type	Control
		Bottle ID	-		

	Compound	CAS	InjFileName	Sample Concentration ng/L	LOD ng/L	LOQ ng/L	Recovery Limits	Recovery	Flags
Acids	PFBA	375-22-4	GI211025067	19.8	0.254	0.640	47.9-144%	99.1%	
	PFPeA	2706-90-3	GI211025067	20.2	0.183	0.640	41.7-159%	101%	
	PFHxA	307-24-4	GI211025067	19.1	0.214	0.640	43.2-154%	95.7%	
	PFHpA	375-85-9	GI211025067	20.2	0.224	0.640	42.1-155%	101%	
	PFOA	335-67-1	GI211025067	20.1	0.146	0.640	51.1-148%	101%	
	PFNA	375-95-1	GI211025067	19.6	0.145	0.640	51.6-153%	97.9%	
	PFDA	335-76-2	GI211025067	19.2	0.183	0.640	44.5-156%	96.2%	
	PFUnDA	2058-94-8	GI211025067	20.4	0.145	0.640	40.3-156%	102%	
	PFDoDA	307-55-1	GI211025067	19.3	0.260	0.640	40.4-158%	96.4%	
	PFTrDA	72629-94-8	GI211025067	20.3	0.212	0.640	42.2-201%	102%	
	PFTeDA	376-06-7	GI211025067	18.8	0.244	0.640	43-162%	94.1%	
Sulfonates	PFBS	375-73-5	GI211025067	17.3	0.340	0.640	42.7-155%	97.6%	
	PFPeS	2706-91-4	GI211025067	17.2	0.131	0.603	40.3-152%	91.6%	
	PFHxS	355-46-4	GI211025067	18.3	0.494	0.586	45-148%	100%	
	PFHpS	375-92-8	GI211025067	18.1	0.310	0.610	39.8-166%	95.1%	
	PFOS	1763-23-1	GI211025067	17.8	0.338	0.593	59.2-132%	95.8%	
	PFNS	68259-12-1	GI211025067	18.6	0.199	0.616	38.1-153%	96.9%	
	PFDS	335-77-3	GI211025067	18.0	0.336	0.616	28.6-148%	93.2%	
	4:2 FTS	757124-72-4	GI211025067	18.9	0.0830	0.600	41.5-157%	101%	
	6:2 FTS	27619-97-2	GI211025067	18.3	0.302	0.610	44.5-160%	96.2%	
	8:2 FTS	39108-34-4	GI211025067	21.0	0.143	0.613	39.4-166%	109%	
Sulfonamidos	N-EtFOSA	4151-50-2	GI211025067	19.4	0.396	0.640	26.7-172%	97.2%	
	N-EtFOSAA	2991-50-6	GI211025067	18.6	0.260	0.640	42.8-156%	92.9%	
	N-EtFOSE	1691-99-2	GI211025067	85.4	0.980	2.88	38.9-161%	94.9%	
	N-MeFOSA	31506-32-8	GI211025067	19.6	0.264	0.640	26.4-183%	98.0%	
	N-MeFOSAA	2355-31-9	GI211025067	19.5	0.180	0.640	42-155%	97.3%	
	N-MeFOSE	24448-09-7	GI211025067	85.6	0.608	2.88	37.6-155%	95.1%	
	PFOSA	754-91-6	GI211025067	21.8	0.0898	0.640	39.1-158%	109%	
PFECAs	ADONA	919005-14-4	GI211025067	20.9	0.173	0.606	32.2-151%	104%	
	HFPO-DA	13252-13-6	GI211025067	17.5	0.0678	0.640	61.8-131%	87.4%	
PFESAs	11Cl-PF3OUdS	763051-92-9	GI211025067	16.9	0.302	0.603	21.8-141%	84.4%	
	9Cl-PF3ONS	756426-58-1	GI211025067	18.1	0.410	0.596	37.6-146%	90.3%	
ES	MPFBA		GI211025067				20-150%	99.5%	
	M5PFPeA		GI211025067				20-150%	59.9%	
	M3PFBS		GI211025067				20-150%	101%	
	M2-4:2 FTS		GI211025067				20-150%	66.0%	
	M5PFHxA		GI211025067				20-150%	109%	
	M3HFPO-DA		GI211025067				20-150%	135%	
	M4PFHpA		GI211025067				20-150%	106%	
	M3PFHxS		GI211025067				20-150%	92.3%	
	M2-6:2 FTS		GI211025067				20-150%	46.1%	
	M8PFOA		GI211025067				20-150%	99.6%	
	M9PFNA		GI211025067				20-150%	102%	
	M8PFOS		GI211025067				20-150%	98.5%	
	M2-8:2 FTS		GI211025067				20-150%	42.3%	
	M8FOSA-I		GI211025067				20-150%	92.7%	
	M6PFDA		GI211025067				20-150%	101%	
	d3-N-MeFOSAA		GI211025067				20-150%	47.4%	
	d5-N-EtFOSAA		GI211025067				20-150%	48.6%	
	M7PFUdA		GI211025067				20-150%	97.1%	
	MPFDoA		GI211025067				20-150%	96.1%	
	M2PFTeDA		GI211025067				20-150%	100%	
	d3-N-MeFOSA		GI211025067				10-200%	84.8%	
	d5-N-EtFOSA		GI211025067				10-200%	89.2%	
	d7-N-MeFOSE		GI211025067				10-200%	132%	
	d9-N-EtFOSE		GI211025067				10-200%	125%	

Sample Custody

Enthalpy Analytical

Job No.: 1025-864-2 PFAS by Isotope Dilution (non-potable water)

Brunswick County Public Utilities - NC NORTHWEST WATER PLANT Leland, NC

Job No	Client Sample Name	Lab ID	Logged By	Login Date	Sampling Time	Expiration Date	Sampling Site	Matrix	Container Id
1025-864	101725 S01	001	jayson-shanesantos	2025-10-17	2025-10-17 10:00	2025-11-14			A,B
1025-864	101725 E01	002	jayson-shanesantos	2025-10-17	2025-10-17 10:00	2025-11-14			A,B

JOB ID: 1025-864 Date / Time: 10/17/25 14:30 Initials: LGS

OR

Client: Brunswick

Cooler 1 of 1

Temp °C: 3.4 Thermometer ID: T10

Received via: FedEx ☐ UPS ☐ DHL ☐ USPS ☐ Courier ☒ Other ☐

Check one		Check one			Yes	No
On ice:	☒	in a Box:	☐	Cooler seals:	☐	☒
Melted ice:	☐	in a Cooler:	☒	Sample seals:	☐	☒
Ambient:	☐	Cooler in Box:	☐	Good condition:	☒	☐

Comment:

Cooler ☐ of ☐

Temp °C: ☐ Thermometer ID: ☐

Received via: FedEx ☐ UPS ☐ DHL ☐ USPS ☐ Courier ☐ Other ☐

Check one		Check one			Yes	No
On ice:	☐	in a Box:	☐	Cooler seals:	☐	☐
Melted ice:	☐	in a Cooler:	☐	Sample seals:	☐	☐
Ambient:	☐	Cooler in Box:	☐	Good condition:	☐	☐

Comment:

Cooler ☐ of ☐

Temp °C: ☐ Thermometer ID: ☐

Received via: FedEx ☐ UPS ☐ DHL ☐ USPS ☐ Courier ☐ Other ☐

Check one		Check one			Yes	No
On ice:	☐	in a Box:	☐	Cooler seals:	☐	☐
Melted ice:	☐	in a Cooler:	☐	Sample seals:	☐	☐
Ambient:	☐	Cooler in Box:	☐	Good condition:	☐	☐

Comment: