

Brunswick County Public Utilities - NC

PO Box 249
Bolivia, NC 28422-0249

LELAND N.C.

Client Project# NORTHWEST WATER PLANT
Samples Received: 9/26/2025

Analytical Report 0925-1217

PFAS by Isotope Dilution (non-potable water)

Report Issue Date: 10/24/2025

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:



Alexandra Mejia, Quality Assurance Associate I



Enthalpy Analytical, LLC – Wilmington
Amanda Valois, Project Manager
amvalois@montrose-env.com / www.enthalpy.com
O: (910) 212-5858
2714 Exchange Drive, Wilmington, NC 28405

Table of Contents

Case Narrative	3
General Reporting Notes	6
Results	12
Summary of Results	13
Detailed Results	14
QC Data	20
Blanks	21
Controls	24
Sample Custody	26
Chain of Custody	27

Narrative Summary



Enthalpy Analytical Narrative Summary

Company	Brunswick County Public Utilities - NC
Job No.	0925-1217-1
Client ID.	NORTHWEST WATER PLANT Site: LELAND N.C.

1. Custody

Shane Santos received the samples at 1.4 °C after being relinquished by Brunswick County Public Utilities - NC.

The samples were received in good condition. 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
0925-1217-001-1	092625-S01	aqueous	2025-09-26
0925-1217-001-2	092625-S01	aqueous	2025-09-26
0925-1217-002-1	092625-E01	aqueous	2025-09-26
0925-1217-002-2	092625-E01	aqueous	2025-09-26

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 Bumblebee and Gimli.

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

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.

Enthalpy Analytical Narrative Summary

Company	Brunswick County Public Utilities - NC
Job No.	0925-1217-1
Client ID.	NORTHWEST WATER PLANT Site: LELAND N.C.

The Standards that did not were:

- SID BQ06 (NFDHA, PFO4DA, PFO5DA)
- SID BQ07 (NFDHA, PFO4DA, PFO5DA)

Analyte(s) that exceed method control limits in the concals were not detected >LOQ in the samples. The data is reported without adverse impact.

5. QC Notes

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

Except where noted below, the QC sample analyses passed all method criteria.

QC samples that did not meet method acceptance criteria were:

- MB_118931_PFAS (M5PFPeA, M2-4:2 FTS) - See additional Reporting Notes below.
- OPR_118931_PFAS (M5PFPeA, M2-4:2 FTS) - See additional Reporting Notes below.
- OPR_118934_PFAS (PFPrA)

Analyte(s) that deviate from method recovery criteria in the ongoing precision recovery (OPR) QC sample were not detected >LOQ in the samples. Data is reported without adverse impact.

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.

Some labeled extraction standards (ES) in the analyses recovered outside method control limits for ES recovery, as denoted by the "Q" qualifier. The target analytes are quantified based on their ratio to their labeled standard analogs. As a result, low or high labeled standard recovery do not cause any change to ratios or contribute any additional error in the measurement of the target analytes. When detected at a signal-to-noise above 10:1 the ES peak area is used to quantify its respective target analyte using accepted isotope dilution principles. The data is reported without adverse impact.

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.



General Reporting Notes – Data Qualifiers

- 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
PFESA	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			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-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
PFOA	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.: 0925-1217-1 PFAS by Isotope Dilution (non-potable water)

Brunswick County Public Utilities - NC NORTHWEST WATER PLANT LELAND N.C.

Summary

	Compound	CAS	092625-S01 ng/L	092625-E01 ng/L	
Acids	PFPrA	422-64-0	ND U	ND U	
	PFBA	375-22-4	4.56	4.67	
	PFPeA	2706-90-3	7.64	7.75	
	PFHxA	307-24-4	5.27	5.35	
	PFHpA	375-85-9	2.79	2.76	
	PFOA	335-67-1	5.57	5.61	
	PFNA	375-95-1	0.662	0.643	
	PFDA	335-76-2	0.312 J	0.284 J	
	PFUnDA	2058-94-8	0.0209 L	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	3.76	4.16
		PFPeS	2706-91-4	0.534	0.641
PFHxS		355-46-4	4.50	5.32	
PFHpS		375-92-8	0.185 L	0.208 L	
PFOS		1763-23-1	11.7	12.6	
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	0.0940 L	0.0875 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	0.366 J	0.412 J	
	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	ND U	ND U	
PFECAs	ADONA	919005-14-4	ND U	ND U	
	EVE Acid	69087-46-3	ND U	ND U	
	HFPO-DA	13252-13-6	3.69	4.08	
	Hydro-EVE Acid	773804-62-9	0.00354 L	0.0169 L	
	NFDHA	151772-58-6	ND U	ND U	
	PEPA	267239-61-2	2.22	1.97	
	PFECA-G	801212-59-9	ND U	ND U	
	PFMOAA	674-13-5	22.9	20.2	
	PFMOBA	863090-89-5	ND U	ND U	
	PFMOPrA	377-73-1	ND U	ND U	
	PFO2HxA	39492-88-1	2.88	2.96	
	PFO3OA	39492-89-2	1.26	1.28	
	PFO4DA	39492-90-5	0.508 J	0.462 J	
	PFO5DA	39492-91-6	ND U	ND U	
	PMPA	13140-29-9	6.27	6.47	
R-EVE	2416366-22-6	5.22	5.12		
PFESAs	11Cl-PF3OUdS	763051-92-9	ND U	ND U	
	9Cl-PF3ONS	756426-58-1	ND U	ND U	
	Hydrolyzed PSDA	2416366-19-1	3.24	3.66	
	Nafion Byproduct 1 (PS Acid)	29311-67-9	ND U	ND U	
	Nafion Byproduct 2 (Hydro-PS Acid)	749836-20-2	0.504 J	0.585	
	NVHOS	1132933-86-8	3.30	4.04	
	PFEESA	113507-82-7	ND U	ND U	
	R-PSDA	2416366-18-0	9.14	8.80	
R-PSDCA	2416366-21-5	ND U	ND U		

Enthalpy Analytical

Job No.: 0925-1217-1 PFAS by Isotope Dilution (non-potable water)

Brunswick County Public Utilities - NC NORTHWEST WATER PLANT LELAND N.C.

Details

Sample Name	092625-S01	Prep Batch	EU118931
Sampling Site		Analyst	jogres
Enthalpy ID	0925-1217-001-1	Instrument	Gimli
Matrix	aqueous	Sample Vol mL	287.07
Sampling Date	2025-09-26 10:45	Extract Vol mL	0.4
Received Date	2025-09-26	Split Factor	N/A
Prep Date	2025-09-30 10:15	Method Code	EU-047-NPW
AnalysisDate	2025-10-01 05:15		
SampleType	Sample		
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	GI300925059	4.56	0.221	0.557				
	PFPeA	2706-90-3	GI300925059	7.64	0.159	0.557				
	PFHxA	307-24-4	GI300925059	5.27	0.186	0.557				
	PFHpA	375-85-9	GI300925059	2.79	0.195	0.557				
	PFOA	335-67-1	GI300925059	5.57	0.127	0.557				
	PFNA	375-95-1	GI300925059	0.662	0.126	0.557				
	PFDA	335-76-2	GI300925059	0.312	0.159	0.557				
	PFUnDA	2058-94-8	GI300925059	0.0209	0.126	0.557			J	
	PFDoDA	307-55-1	GI300925059	ND	0.226	0.557			L	
	PFTrDA	72629-94-8	GI300925059	ND	0.185	0.557			U	
	PFTeDA	376-06-7	GI300925059	ND	0.212	0.557			U	
	PFFhDA	67905-19-5	GI300925059	ND	0.296	0.557			U	
	Sulfonates	PFBS	375-73-5	GI300925059	3.76	0.296	0.557			
		PFPeS	2706-91-4	GI300925059	0.534	0.114	0.525			
PFFhS		355-46-4	GI300925059	4.50	0.430	0.510				
PFFpS		375-92-8	GI300925059	0.185	0.270	0.531			L	
PFOS		1763-23-1	GI300925059	11.7	0.294	0.516				
PFNS		68259-12-1	GI300925059	ND	0.173	0.537			U	
PFDS		335-77-3	GI300925059	ND	0.293	0.537			U	
4:2 FTS		757124-72-4	GI300925059	ND	0.0723	0.522			U	
6:2 FTS		27619-97-2	GI300925059	0.0940	0.263	0.531			L	
8:2 FTS		39108-34-4	GI300925059	ND	0.125	0.534			U	
10:2 FTS	120226-60-0	GI300925059	ND	0.427	0.557			U		
Sulfonamidos	FBSA	30334-69-1	GI300925059	0.366	0.265	0.557			J	
	N-EtFOSA	4151-50-2	GI300925059	ND	0.345	0.557			U	
	N-EtFOSAA	2991-50-6	GI300925059	ND	0.226	0.557			U	
	N-EtFOSE	1691-99-2	GI300925059	ND	0.853	2.51			U	
	N-MeFOSA	31506-32-8	GI300925059	ND	0.230	0.557			U	
	N-MeFOSAA	2355-31-9	GI300925059	ND	0.157	0.557			U	
	N-MeFOSE	24448-09-7	GI300925059	ND	0.529	2.51			U	
	PFOSA	754-91-6	GI300925059	ND	0.0782	0.557			U	
	PFECAs	ADONA	919005-14-4	GI300925059	ND	0.151	0.528			U
EVE Acid		69087-46-3	GI300925059	ND	0.178	1.25			U	
HFPO-DA		13252-13-6	GI300925059	3.69	0.0590	0.557				
Hydro-EVE Acid		773804-62-9	GI300925059	0.00354	0.183	0.557			L	
NFDHA		151772-58-6	GI300925059	ND	0.117	0.557			U	
PEPA		267239-61-2	GI300925059	2.22	0.105	0.557				
PFECA-G		801212-59-9	GI300925059	ND	0.0744	0.557			U	
PFMOAA		674-13-5	GI300925059	22.9	0.282	0.557				
PFMOBA		863090-89-5	GI300925059	ND	0.935	1.25			U	
PFMOPrA		377-73-1	GI300925059	ND	0.199	0.557			U	
PFO2HxA		39492-88-1	GI300925059	2.88	0.179	0.557				
PFO3OA		39492-89-2	GI021025023	1.26	0.256	0.557				
PFO4DA		39492-90-5	GI300925059	0.508	0.441	2.79			J	
PFO5DA		39492-91-6	GI300925059	ND	0.446	2.79			U	
PMPA		13140-29-9	GI300925059	6.27	0.131	0.557				
R-EVE		2416366-22-6	GI300925059	5.22	0.925	1.25				
PFESAs	11Cl-PF3OUdS	763051-92-9	GI300925059	ND	0.263	0.525			U	
	9Cl-PF3ONS	756426-58-1	GI300925059	ND	0.357	0.519			U	
	Hydrolyzed PSDA	2416366-19-1	GI300925059	3.24	0.371	0.557				
	Nafion Byproduct 1 (PS Acid)	29311-67-9	GI300925059	ND	0.298	0.557			U	
	Nafion Byproduct 2 (Hydro-PS Acid)	749836-20-2	GI300925059	0.504	0.462	0.557			J	
	NVHOS	1132933-86-8	GI300925059	3.30	0.0859	0.557				
	PFEESA	113507-82-7	GI300925059	ND	0.168	0.557			U	
	R-PSDA	2416366-18-0	GI300925059	9.14	2.46	2.46				
R-PSDCA	2416366-21-5	GI300925059	ND	0.235	0.557			U		
ES	MPPFBA		GI300925059				20-150%	86.3%		
	M5PFPeA		GI300925059				20-150%	300%	Q	
	M3PFBS		GI300925059				20-150%	128%		
	M2-4:2 FTS		GI300925059				20-150%	260%	Q	
	M5PFFhxA		GI300925059				20-150%	125%		
	M3HFPO-DA		GI300925059				20-150%	94.7%		

Enthalpy Analytical

Job No.: 0925-1217-1 PFAS by Isotope Dilution (non-potable water)
 Brunswick County Public Utilities - NC NORTHWEST WATER PLANT LELAND N.C.

Details

Sample Name	092625-S01	Prep Batch	EU118931
Sampling Site		Analyst	jogres
Enthalpy ID	0925-1217-001-1	Instrument	Gimli
Matrix	aqueous	Sample Vol mL	287.07
Sampling Date	2025-09-26 10:45	Extract Vol mL	0.4
Received Date	2025-09-26	Split Factor	N/A
Prep Date	2025-09-30 10:15	Method Code	EU-047-NPW
AnalysisDate	2025-10-01 05:15		
SampleType	Sample		
Bottle ID	A		

Compound	CAS	Injection File Name	Sample Concentration ng/L	LOD ng/L	LOQ ng/L	Recovery Limits	Recovery	Flags
M4PFHpA		GI300925059				20-150%	103%	
M3PFHxS		GI300925059				20-150%	96.5%	
M2-6:2 FTS		GI300925059				20-150%	72.8%	
M8PFOA		GI300925059				20-150%	81.6%	
M9PFNA		GI300925059				20-150%	71.2%	
M8PFOS		GI300925059				20-150%	76.3%	
M2-8:2 FTS		GI300925059				20-150%	49.8%	
M8FOSA-I		GI300925059				20-150%	53.7%	
M6PFDA		GI300925059				20-150%	68.9%	
d3-N-MeFOSAA		GI300925059				20-150%	69.9%	
d5-N-EtFOSAA		GI300925059				20-150%	61.7%	
M7PFUdA		GI300925059				20-150%	59.0%	
MPFDoA		GI300925059				20-150%	52.3%	
M2PFTeDA		GI300925059				20-150%	37.2%	
d3-N-MeFOSA		GI300925059				10-200%	6.93%	Q
d5-N-EtFOSA		GI300925059				10-200%	6.35%	Q
d7-N-MeFOSE		GI300925059				10-200%	47.8%	
d9-N-EtFOSE		GI300925059				10-200%	38.3%	

Enthalpy Analytical

Job No.: 0925-1217-1 PFAS by Isotope Dilution (non-potable water)
 Brunswick County Public Utilities - NC NORTHWEST WATER PLANT LELAND N.C.

Details

Sample Name	092625-S01		
Sampling Site			
Enthalpy ID	0925-1217-001-2	Prep Batch	EU118934
Matrix	aqueous	Analyst	jogres
Sampling Date	2025-09-26 10:45	Instrument	Bumblebee
Received Date	2025-09-26	Sample Vol mL	0.1
Prep Date	2025-09-30 13:50	Extract Vol mL	0.2
AnalysisDate	2025-10-01 20:20	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	B011025-10012020	ND	700	1530			U
ES	13C3-PFPrA		B011025-10012020				20-150%	112%	

Enthalpy Analytical

Job No.: 0925-1217-1 PFAS by Isotope Dilution (non-potable water)

Brunswick County Public Utilities - NC NORTHWEST WATER PLANT LELAND N.C.

Details

Sample Name	092625-E01	Prep Batch	EU118931
Sampling Site		Analyst	jogres
Enthalpy ID	0925-1217-002-1	Instrument	Gimli
Matrix	aqueous	Sample Vol mL	285.53
Sampling Date	2025-09-12 10:45	Extract Vol mL	0.4
Received Date	2025-09-26	Split Factor	N/A
Prep Date	2025-09-30 10:15	Method Code	EU-047-NPW
AnalysisDate	2025-10-01 05:38		
SampleType	Sample		
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	GI300925060	4.67	0.222	0.560				
	PFPeA	2706-90-3	GI300925060	7.75	0.160	0.560				
	PFFhxA	307-24-4	GI300925060	5.35	0.187	0.560				
	PFFhPA	375-85-9	GI300925060	2.76	0.196	0.560				
	PFOA	335-67-1	GI300925060	5.61	0.128	0.560				
	PFNA	375-95-1	GI300925060	0.643	0.127	0.560				
	PFDA	335-76-2	GI300925060	0.284	0.160	0.560				
	PFUnDA	2058-94-8	GI300925060	ND	0.127	0.560			J	
	PFDODA	307-55-1	GI300925060	ND	0.228	0.560			U	
	PFTrDA	72629-94-8	GI300925060	ND	0.186	0.560			U	
	PFTeDA	376-06-7	GI300925060	ND	0.214	0.560			U	
	PFFhDA	67905-19-5	GI300925060	ND	0.298	0.560			U	
	Sulfonates	PFBS	375-73-5	GI300925060	4.16	0.298	0.560			
		PFPeS	2706-91-4	GI300925060	0.641	0.115	0.528			
PFFhS		355-46-4	GI300925060	5.32	0.433	0.513				
PFFhPS		375-92-8	GI300925060	0.208	0.271	0.534			L	
PFOS		1763-23-1	GI300925060	12.6	0.296	0.519				
PFNS		68259-12-1	GI300925060	ND	0.174	0.540			U	
PFDS		335-77-3	GI300925060	ND	0.294	0.540			U	
4:2 FTS		757124-72-4	GI300925060	ND	0.0727	0.525			U	
6:2 FTS		27619-97-2	GI300925060	0.0875	0.264	0.534			L	
8:2 FTS		39108-34-4	GI300925060	ND	0.126	0.537			U	
10:2 FTS	120226-60-0	GI300925060	ND	0.429	0.560			U		
Sulfonamidos	FBSA	30334-69-1	GI300925060	0.412	0.266	0.560			J	
	N-EtFOSA	4151-50-2	GI300925060	ND	0.347	0.560			U	
	N-EtFOSAA	2991-50-6	GI300925060	ND	0.228	0.560			U	
	N-EtFOSE	1691-99-2	GI300925060	ND	0.858	2.52			U	
	N-MeFOSA	31506-32-8	GI300925060	ND	0.231	0.560			U	
	N-MeFOSAA	2355-31-9	GI300925060	ND	0.157	0.560			U	
	N-MeFOSE	24448-09-7	GI300925060	ND	0.532	2.52			U	
	PFOSA	754-91-6	GI300925060	ND	0.0786	0.560			U	
	PFECAs	ADONA	919005-14-4	GI300925060	ND	0.152	0.531			U
EVE Acid		69087-46-3	GI300925060	ND	0.179	1.26			U	
HFPO-DA		13252-13-6	GI300925060	4.08	0.0594	0.560				
Hydro-EVE Acid		773804-62-9	GI300925060	0.0169	0.184	0.560			L	
NFDHA		151772-58-6	GI300925060	ND	0.118	0.560			U	
PEPA		267239-61-2	GI300925060	1.97	0.105	0.560				
PFECA-G		801212-59-9	GI300925060	ND	0.0748	0.560			U	
PFMOAA		674-13-5	GI300925060	20.2	0.284	0.560				
PFMOBA		863090-89-5	GI300925060	ND	0.940	1.26			U	
PFMOPrA		377-73-1	GI300925060	ND	0.200	0.560			U	
PFO2HxA		39492-88-1	GI300925060	2.96	0.180	0.560				
PFO3OA		39492-89-2	GI021025024	1.28	0.257	0.560				
PFO4DA		39492-90-5	GI300925060	0.462	0.443	2.80			J	
PFO5DA		39492-91-6	GI300925060	ND	0.448	2.80			U	
PMPA		13140-29-9	GI300925060	6.47	0.132	0.560				
R-EVE		2416366-22-6	GI300925060	5.12	0.930	1.26				
PFESAs	11Cl-PF3OUds	763051-92-9	GI300925060	ND	0.264	0.528			U	
	9Cl-PF3ONS	756426-58-1	GI300925060	ND	0.359	0.522			U	
	Hydrolyzed PSDA	2416366-19-1	GI300925060	3.66	0.373	0.560				
	Nafion Byproduct 1 (PS Acid)	29311-67-9	GI300925060	ND	0.299	0.560			U	
	Nafion Byproduct 2 (Hydro-PS Acid)	749836-20-2	GI300925060	0.585	0.464	0.560				
	NVHOS	1132933-86-8	GI300925060	4.04	0.0863	0.560				
	PFEESA	113507-82-7	GI300925060	ND	0.168	0.560			U	
R-PSDA	2416366-18-0	GI300925060	8.80	2.47	2.47					
R-PSDCA	2416366-21-5	GI300925060	ND	0.236	0.560			U		
ES	MPPFBA		GI300925060				20-150%	84.8%		
	M5PPPeA		GI300925060				20-150%	257%	Q	
	M3PFBS		GI300925060				20-150%	100%		
	M2-4:2 FTS		GI300925060				20-150%	255%	Q	
	M5PPHxA		GI300925060				20-150%	129%		
	M3HFPO-DA		GI300925060				20-150%	94.6%		

Enthalpy Analytical

Job No.: 0925-1217-1 PFAS by Isotope Dilution (non-potable water)
 Brunswick County Public Utilities - NC NORTHWEST WATER PLANT LELAND N.C.

Details

Sample Name	092625-E01	Prep Batch	EU118931
Sampling Site		Analyst	jogres
Enthalpy ID	0925-1217-002-1	Instrument	Gimli
Matrix	aqueous	Sample Vol mL	285.53
Sampling Date	2025-09-12 10:45	Extract Vol mL	0.4
Received Date	2025-09-26	Split Factor	N/A
Prep Date	2025-09-30 10:15	Method Code	EU-047-NPW
AnalysisDate	2025-10-01 05:38		
SampleType	Sample		
Bottle ID	A		

Compound	CAS	Injection File Name	Sample Concentration ng/L	LOD ng/L	LOQ ng/L	Recovery Limits	Recovery	Flags
M4PFHpA		GI300925060				20-150%	102%	
M3PFHxS		GI300925060				20-150%	93.2%	
M2-6:2 FTS		GI300925060				20-150%	73.6%	
M8PFOA		GI300925060				20-150%	82.0%	
M9PFNA		GI300925060				20-150%	75.5%	
M8PFOS		GI300925060				20-150%	78.6%	
M2-8:2 FTS		GI300925060				20-150%	53.4%	
M8FOSA-I		GI300925060				20-150%	58.9%	
M6PFDA		GI300925060				20-150%	76.4%	
d3-N-MeFOSAA		GI300925060				20-150%	67.1%	
d5-N-EtFOSAA		GI300925060				20-150%	58.7%	
M7PFUdA		GI300925060				20-150%	66.3%	
MPFDoA		GI300925060				20-150%	50.3%	
M2PFTeDA		GI300925060				20-150%	27.6%	
d3-N-MeFOSA		GI300925060				10-200%	14.1%	
d5-N-EtFOSA		GI300925060				10-200%	11.3%	
d7-N-MeFOSE		GI300925060				10-200%	53.8%	
d9-N-EtFOSE		GI300925060				10-200%	42.1%	

Enthalpy Analytical

Job No.: 0925-1217-1 PFAS by Isotope Dilution (non-potable water)
 Brunswick County Public Utilities - NC NORTHWEST WATER PLANT LELAND N.C.

Details

Sample Name	092625-E01		
Sampling Site			
Enthalpy ID	0925-1217-002-2	Prep Batch	EU118934
Matrix	aqueous	Analyst	jogres
Sampling Date	2025-09-12 10:45	Instrument	Bumblebee
Received Date	2025-09-26	Sample Vol mL	0.1
Prep Date	2025-09-30 13:50	Extract Vol mL	0.2
AnalysisDate	2025-10-01 20:31	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	PFPtA	422-64-0	B011025-10012031	ND	700	1530			U
ES	13C3-PFPtA		B011025-10012031				20-150%	107%	

QC Data

Enthalpy Analytical

Job No.: 0925-1217-1 PFAS by Isotope Dilution (non-potable water)

Brunswick County Public Utilities - NC NORTHWEST WATER PLANT LELAND N.C.

Details

Sample Name	MB_118931_PFAS	Prep Batch	EU118931
Sampling Site		Analyst	jogres
Enthalpy ID	MB_118931_PFAS	Instrument	Gimli
Matrix	aqueous	Sample Vol mL	250
Sampling Date		Extract Vol mL	0.4
Received Date		Split Factor	N/A
Prep Date	2025-09-30 10:15	Method Code	EU-047-NPW
AnalysisDate	2025-10-01 03:45		
SampleType	Blank		
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	GI300925055	ND	0.254	0.640			U	
	PFPeA	2706-90-3	GI300925055	ND	0.183	0.640			U	
	PFHxA	307-24-4	GI300925055	ND	0.214	0.640			U	
	PFHpA	375-85-9	GI300925055	ND	0.224	0.640			U	
	PFOA	335-67-1	GI300925055	ND	0.146	0.640			U	
	PFNA	375-95-1	GI300925055	ND	0.145	0.640			U	
	PFDA	335-76-2	GI300925055	ND	0.183	0.640			U	
	PFUnDA	2058-94-8	GI300925055	ND	0.145	0.640			U	
	PFDoDA	307-55-1	GI300925055	ND	0.260	0.640			U	
	PFTrDA	72629-94-8	GI300925055	ND	0.212	0.640			U	
	PFTeDA	376-06-7	GI300925055	ND	0.244	0.640			U	
	PFHxDA	67905-19-5	GI300925055	ND	0.340	0.640			U	
	Sulfonates	PFBS	375-73-5	GI300925055	ND	0.340	0.640			U
		PFPeS	2706-91-4	GI300925055	ND	0.131	0.603			U
		PFHxS	355-46-4	GI300925055	ND	0.494	0.586			U
PFHpS		375-92-8	GI300925055	ND	0.310	0.610			U	
PFOS		1763-23-1	GI300925055	ND	0.338	0.593			U	
PFNS		68259-12-1	GI300925055	ND	0.199	0.616			U	
PFDS		335-77-3	GI300925055	ND	0.336	0.616			U	
4:2 FTS		757124-72-4	GI300925055	ND	0.0830	0.600			U	
6:2 FTS		27619-97-2	GI300925055	ND	0.302	0.610			U	
8:2 FTS		39108-34-4	GI300925055	ND	0.143	0.613			U	
10:2 FTS	120226-60-0	GI300925055	ND	0.490	0.640			U		
Sulfonamidos	FBSA	30334-69-1	GI300925055	ND	0.304	0.640			U	
	N-EtFOSA	4151-50-2	GI300925055	ND	0.396	0.640			U	
	N-EtFOSAA	2991-50-6	GI300925055	ND	0.260	0.640			U	
	N-EtFOSE	1691-99-2	GI300925055	ND	0.980	2.88			U	
	N-MeFOSA	31506-32-8	GI300925055	ND	0.264	0.640			U	
	N-MeFOSAA	2355-31-9	GI300925055	ND	0.180	0.640			U	
	N-MeFOSE	24448-09-7	GI300925055	ND	0.608	2.88			U	
	PFOSA	754-91-6	GI300925055	ND	0.0898	0.640			U	
PFECAs	ADONA	919005-14-4	GI300925055	ND	0.173	0.606			U	
	EVE Acid	69087-46-3	GI300925055	ND	0.204	1.44			U	
	HFPO-DA	13252-13-6	GI300925055	ND	0.0678	0.640			U	
	Hydro-EVE Acid	773804-62-9	GI300925055	ND	0.210	0.640			U	
	NFDHA	151772-58-6	GI300925055	ND	0.135	0.640			U	
	PEPA	267239-61-2	GI300925055	ND	0.120	0.640			U	
	PFECA-G	801212-59-9	GI300925055	ND	0.0854	0.640			U	
	PFMOAA	674-13-5	GI300925055	0.0766	0.324	0.640			L	
	PFMOBA	863090-89-5	GI300925055	ND	1.07	1.44			U	
	PFMOPrA	377-73-1	GI300925055	ND	0.228	0.640			U	
	PFO2HxA	39492-88-1	GI300925055	ND	0.206	0.640			U	
	PFO3OA	39492-89-2	GI021025021	ND	0.294	0.640			U	
	PFO4DA	39492-90-5	GI300925055	ND	0.506	3.20			U	
	PFO5DA	39492-91-6	GI300925055	ND	0.512	3.20			U	
	PMPA	13140-29-9	GI300925055	ND	0.151	0.640			U	
R-EVE	2416366-22-6	GI300925055	ND	1.06	1.44			U		
PFESAs	11Cl-PF3OUdS	763051-92-9	GI300925055	ND	0.302	0.603			U	
	9Cl-PF3ONS	756426-58-1	GI300925055	ND	0.410	0.596			U	
	Hydrolyzed PSDA	2416366-19-1	GI300925055	ND	0.426	0.640			U	
	Nafion Byproduct 1 (PS Acid)	29311-67-9	GI300925055	ND	0.342	0.640			U	
	Nafion Byproduct 2 (Hydro-PS Acid)	749836-20-2	GI300925055	ND	0.530	0.640			U	
	NVHOS	1132933-86-8	GI300925055	ND	0.0986	0.640			U	
	PFEESA	113507-82-7	GI300925055	ND	0.192	0.640			U	
	R-PSDA	2416366-18-0	GI300925055	ND	2.82	2.82			U	
R-PSDCA	2416366-21-5	GI300925055	ND	0.270	0.640			U		
ES	MFPFBA		GI300925055				20-150%	90.6%		
	M5PFPeA		GI300925055				20-150%	202%	Q	
	M3PFBS		GI300925055				20-150%	72.9%		
	M2-4:2 FTS		GI300925055				20-150%	271%	Q	
	M5PFPeA		GI300925055				20-150%	147%		
	M3HFPO-DA		GI300925055				20-150%	108%		

Enthalpy Analytical

Job No.: 0925-1217-1 PFAS by Isotope Dilution (non-potable water)
 Brunswick County Public Utilities - NC NORTHWEST WATER PLANT LELAND N.C.

Details

Sample Name	MB_118931_PFAS	Prep Batch	EU118931
Sampling Site		Analyst	jogres
Enthalpy ID	MB_118931_PFAS	Instrument	Gimli
Matrix	aqueous	Sample Vol mL	250
Sampling Date		Extract Vol mL	0.4
Received Date		Split Factor	N/A
Prep Date	2025-09-30 10:15	Method Code	EU-047-NPW
AnalysisDate	2025-10-01 03:45		
SampleType	Blank		
Bottle ID	-		

Compound	CAS	Injection File Name	Sample Concentration ng/L	LOD ng/L	LOQ ng/L	Recovery Limits	Recovery	Flags
M4PFHpA		GI300925055				20-150%	116%	
M3PFHxS		GI300925055				20-150%	103%	
M2-6:2 FTS		GI300925055				20-150%	80.5%	
M8PFOA		GI300925055				20-150%	92.7%	
M9PFNA		GI300925055				20-150%	85.9%	
M8PFOS		GI300925055				20-150%	93.6%	
M2-8:2 FTS		GI300925055				20-150%	63.8%	
M8FOSA-I		GI300925055				20-150%	76.9%	
M6PFDA		GI300925055				20-150%	90.9%	
d3-N-MeFOSAA		GI300925055				20-150%	107%	
d5-N-EtFOSAA		GI300925055				20-150%	112%	
M7PFUdA		GI300925055				20-150%	90.3%	
MPFDaA		GI300925055				20-150%	86.7%	
M2PFTeDA		GI300925055				20-150%	73.6%	
d3-N-MeFOSA		GI300925055				10-200%	39.5%	
d5-N-EtFOSA		GI300925055				10-200%	38.2%	
d7-N-MeFOSE		GI300925055				10-200%	80.9%	
d9-N-EtFOSE		GI300925055				10-200%	76.7%	

Enthalpy Analytical

Job No.: 0925-1217-1 PFAS by Isotope Dilution (non-potable water)
 Brunswick County Public Utilities - NC NORTHWEST WATER PLANT LELAND N.C.

Details

Sample Name	MB_118934_PFAS	Prep Batch	EU118934
Sampling Site		Analyst	jogres
Enthalpy ID	MB_118934_PFAS	Instrument	Bumblebee
Matrix	aqueous	Sample Vol mL	0.1
Sampling Date		Extract Vol mL	0.2
Received Date		Split Factor	N/A
Prep Date	2025-09-30 13:50	Method Code	EU-047-NPW
AnalysisDate	2025-10-01 19:56		
SampleType	Blank		
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	B011025-10011956	ND	700	1530			U
ES	13C3-PFPrA		B011025-10011956				20-150%	106%	

Enthalpy Analytical

Job No.: 0925-1217-1 PFAS by Isotope Dilution (non-potable water)

Brunswick County Public Utilities - NC NORTHWEST WATER PLANT LELAND N.C.

Enthalpy ID	OPR_118931_PFA5	Prep Batch	EU118931	Sample Vol (mL)	250
Sample Name	OPR_118931_PFA5	Prep Date	2025-09-30 10:15	Extract Vol (mL)	0.4
Matrix	aqueous	Analysis Date	2025-10-01 04:08	Split Factor	N/A
Sampling Date		Analyst	jogres	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	GI300925056	18.8	0.254	0.640	47.9-144%	93.9%	
	PFPeA	2706-90-3	GI300925056	18.3	0.183	0.640	41.7-159%	91.7%	
	PFHxA	307-24-4	GI300925056	19.1	0.214	0.640	43.2-154%	95.3%	
	PFHpA	375-85-9	GI300925056	18.8	0.224	0.640	42.1-155%	94.1%	
	PFOA	335-67-1	GI300925056	18.4	0.146	0.640	51.1-148%	91.9%	
	PFNA	375-95-1	GI300925056	18.9	0.145	0.640	51.6-153%	94.4%	
	PFDA	335-76-2	GI300925056	18.8	0.183	0.640	44.5-156%	93.9%	
	PFUnDA	2058-94-8	GI300925056	19.2	0.145	0.640	40.3-156%	96.0%	
	PFDoDA	307-55-1	GI300925056	20.2	0.260	0.640	40.4-158%	101%	
	PFTrDA	72629-94-8	GI300925056	20.4	0.212	0.640	42.2-201%	102%	
	PFTeDA	376-06-7	GI300925056	19.9	0.244	0.640	43-162%	99.3%	
	Sulfonates	PFBS	375-73-5	GI300925056	16.8	0.340	0.640	42.7-155%	94.7%
PFPeS		2706-91-4	GI300925056	16.0	0.131	0.603	40.3-152%	85.0%	
PFHxS		355-46-4	GI300925056	17.0	0.494	0.586	45-148%	92.8%	
PFHpS		375-92-8	GI300925056	19.8	0.310	0.610	39.8-166%	104%	
PFOS		1763-23-1	GI300925056	17.4	0.338	0.593	59.2-132%	93.6%	
PFNS		68259-12-1	GI300925056	17.9	0.199	0.616	38.1-153%	93.2%	
PFDS		335-77-3	GI300925056	15.7	0.336	0.616	28.6-148%	81.6%	
4:2 FTS		757124-72-4	GI300925056	19.1	0.0830	0.600	41.5-157%	102%	
6:2 FTS		27619-97-2	GI300925056	17.4	0.302	0.610	44.5-160%	91.7%	
8:2 FTS		39108-34-4	GI300925056	18.1	0.143	0.613	39.4-166%	94.1%	
Sulfonamidos	N-EtFOSA	4151-50-2	GI300925056	18.8	0.396	0.640	26.7-172%	94.1%	
	N-EtFOSAA	2991-50-6	GI300925056	18.7	0.260	0.640	42.8-156%	93.7%	
	N-EtFOSE	1691-99-2	GI300925056	87.0	0.980	2.88	38.9-161%	96.7%	
	N-MeFOSA	31506-32-8	GI300925056	19.6	0.264	0.640	26.4-183%	98.2%	
	N-MeFOSAA	2355-31-9	GI300925056	19.3	0.180	0.640	42-155%	96.3%	
	N-MeFOSE	24448-09-7	GI300925056	86.5	0.608	2.88	37.6-155%	96.1%	
	PFOSA	754-91-6	GI300925056	18.5	0.0898	0.640	39.1-158%	92.5%	
PFECAs	ADONA	919005-14-4	GI300925056	21.7	0.173	0.606	32.2-151%	108%	
	HFPO-DA	13252-13-6	GI300925056	18.8	0.0678	0.640	61.8-131%	94.1%	
PFESAs	11C-PPF3OUdS	763051-92-9	GI300925056	17.5	0.302	0.603	21.8-141%	87.7%	
	9C-PPF3ONS	756426-58-1	GI300925056	18.5	0.410	0.596	37.6-146%	92.5%	
ES	MPFBA		GI300925056				20-150%	90.2%	
	M5PFPeA		GI300925056				20-150%	197%	Q
	M3PFBS		GI300925056				20-150%	72.1%	
	M2-4:2 FTS		GI300925056				20-150%	247%	Q
	M5PFHxA		GI300925056				20-150%	135%	
	M3HFPO-DA		GI300925056				20-150%	102%	
	M4PFHpA		GI300925056				20-150%	109%	
	M3PFHxS		GI300925056				20-150%	97.5%	
	M2-6:2 FTS		GI300925056				20-150%	74.1%	
	M8PFOA		GI300925056				20-150%	87.1%	
	M9PFNA		GI300925056				20-150%	81.1%	
	M8PFOS		GI300925056				20-150%	85.5%	
	M2-8:2 FTS		GI300925056				20-150%	60.5%	
	M8FOSA-I		GI300925056				20-150%	70.8%	
	M6PFDA		GI300925056				20-150%	86.6%	
	d3-N-MeFOSAA		GI300925056				20-150%	99.8%	
	d5-N-EtFOSAA		GI300925056				20-150%	102%	
	M7PFUdA		GI300925056				20-150%	83.5%	
	MPFDoA		GI300925056				20-150%	81.3%	
	M2PFTeDA		GI300925056				20-150%	71.8%	
	d3-N-MeFOSA		GI300925056				10-200%	21.6%	
d5-N-EtFOSA		GI300925056				10-200%	20.3%		
d7-N-MeFOSE		GI300925056				10-200%	77.4%		
d9-N-EtFOSE		GI300925056				10-200%	72.4%		

Enthalpy Analytical

Job No.: 0925-1217-1 PFAS by Isotope Dilution (non-potable water)
 Brunswick County Public Utilities - NC NORTHWEST WATER PLANT LELAND N.C.

Details

Sample Name	OPR_118934_PFAS	Prep Batch	EU118934
Sampling Site		Analyst	jogres
Enthalpy ID	OPR_118934_PFAS	Instrument	Bumblebee
Matrix	aqueous	Sample Vol mL	0.1
Sampling Date		Extract Vol mL	0.2
Received Date		Split Factor	N/A
Prep Date	2025-09-30 13:50	Method Code	EU-047-NPW
AnalysisDate	2025-10-01 20:08		
SampleType	Control		
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	B011025-10012008	35900	700	1530	40-150%	180%	Q
ES	13C3-PFPrA		B011025-10012008				20-150%	106%	

Sample Custody

JOB ID:

Date / Time:

Initials:

OR

Client:

Cooler of

Temp °C:

Thermometer ID:

- Received via
- FedEx
- UPS
- DHL
- USPS
- Courier
- Other

Check one

On ice:

Melted ice:

Ambient:

Check one

in a Box:

in a Cooler:

Cooler in Box:

	Yes	No
Cooler seals:	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Sample seals:	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Good condition:	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Comment:

Cooler of

Temp °C:

Thermometer ID:

- Received via
- FedEx
- UPS
- DHL
- USPS
- Courier
- Other

Check one

On ice:

Melted ice:

Ambient:

Check one

in a Box:

in a Cooler:

Cooler in Box:

	Yes	No
Cooler seals:	<input type="checkbox"/>	<input type="checkbox"/>
Sample seals:	<input type="checkbox"/>	<input type="checkbox"/>
Good condition:	<input type="checkbox"/>	<input type="checkbox"/>

Comment:

Cooler of

Temp °C:

Thermometer ID:

- Received via
- FedEx
- UPS
- DHL
- USPS
- Courier
- Other

Check one

On ice:

Melted ice:

Ambient:

Check one

in a Box:

in a Cooler:

Cooler in Box:

	Yes	No
Cooler seals:	<input type="checkbox"/>	<input type="checkbox"/>
Sample seals:	<input type="checkbox"/>	<input type="checkbox"/>
Good condition:	<input type="checkbox"/>	<input type="checkbox"/>

Comment: