

# Brunswick County Public Utilities - NC

PO Box 249  
Bolivia, NC 28422-0249

## Leland, NC

Client Project# NORTHWEST WATER PLANT  
Samples Received: 10/31/2025

### Analytical Report 1025-1303

#### PFAS by Isotope Dilution (non-potable water)

Report Issue Date: 12/1/2025

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:



Laura Boivin, QA Associate II



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

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# Narrative Summary



# Enthalpy Analytical Narrative Summary

Company	Brunswick County Public Utilities - NC
Job No.	1025-1303-1
Client ID.	NORTHWEST WATER PLANT Site: Leland, NC

## 1. Custody

Lilli Stanley received the samples at 5.3 °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
1025-1303-001-1	103125-SO1	aqueous	2025-10-31
1025-1303-001-2	103125-SO1	aqueous	2025-10-31
1025-1303-002-1	103125-EO1	aqueous	2025-10-31
1025-1303-002-2	103125-EO1	aqueous	2025-10-31

## 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.

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  $\geq 0.99$ . 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.	1025-1303-1
Client ID.	NORTHWEST WATER PLANT Site: Leland, NC

## 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.

## 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*
<b>Target Analytes</b>								
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.: 1025-1303-1 PFAS by Isotope Dilution (non-potable water)

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

### Summary

	Compound	CAS	103125-SO1 ng/L	103125-EO1 ng/L
Acids	PFPrA	422-64-0	ND U	ND U
	PFBA	375-22-4	4.71	5.08
	PFPeA	2706-90-3	9.73	10.4
	PFHxA	307-24-4	7.58	7.67
	PFHpA	375-85-9	3.54	3.58
	PFOA	335-67-1	6.07	5.87
	PFNA	375-95-1	0.656	0.678
	PFDA	335-76-2	0.277 J	0.272 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	4.65
PFPeS		2706-91-4	0.872	0.731
PFHxS		355-46-4	6.07	5.65
PFHpS		375-92-8	0.212 L	0.201 L
PFOS		1763-23-1	12.5	11.3
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	0.183 L	0.139 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	0.846	0.789
	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	0.0705 L	0.827
PFECAs	ADONA	919005-14-4	ND U	ND U
	EVE Acid	69087-46-3	ND U	0.000415 L
	HFPO-DA	13252-13-6	4.39	4.06
	Hydro-EVE Acid	773804-62-9	0.169 J	0.172 J
	NFDHA	151772-58-6	ND U	ND U
	PEPA	267239-61-2	2.50	3.66
	PFECA-G	801212-59-9	ND U	ND U
	PFMOAA	674-13-5	8.21	2.61
	PFMOBA	863090-89-5	ND U	ND U
	PFMOPrA	377-73-1	0.0153 L	0.0473 L
	PFO2HxA	39492-88-1	4.56	4.05
	PFO3OA	39492-89-2	1.28	1.16
	PFO4DA	39492-90-5	ND U	ND U
	PFO5DA	39492-91-6	ND U	ND U
	PMPA	13140-29-9	7.06	6.99
	R-EVE	2416366-22-6	4.65	4.12
PFESAs	11Cl-PF3OUdS	763051-92-9	ND U	ND U
	9Cl-PF3ONS	756426-58-1	ND U	ND U
	Hydrolyzed PSDA	2416366-19-1	5.01	5.21
	Nafion Byproduct 1 (PS Acid)	29311-67-9	0.277 J	0.511 J
	Nafion Byproduct 2 (Hydro-PS Acid)	749836-20-2	0.522	0.539
	NVHOS	1132933-86-8	4.40	7.38
	PFEESA	113507-82-7	ND U	ND U
	R-PSDA	2416366-18-0	6.86	6.55
R-PSDCA	2416366-21-5	ND U	ND U	

# Enthalpy Analytical

Job No.: 1025-1303-1 PFAS by Isotope Dilution (non-potable water)  
 Brunswick County Public Utilities - NC NORTHWEST WATER PLANT Leland, NC

## Details

Sample Name	103125-SO1		
Sampling Site			
Enthalpy ID	1025-1303-001-1	Prep Batch	EU119214
Matrix	aqueous	Analyst	zoeardt
Sampling Date	2025-10-31 13:40	Instrument	Bumblebee
Received Date	2025-10-31	Sample Vol mL	1
Prep Date	2025-11-05 14:58	Extract Vol mL	0.2
AnalysisDate	2025-11-06 15:47	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	PFPrA	422-64-0	B061125-11061547	ND	70.0	153			U
ES	13C3-PFPrA		B061125-11061547				20-150%	133%	

# Enthalpy Analytical

Job No.: 1025-1303-1 PFAS by Isotope Dilution (non-potable water)

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

## Details

Sample Name	103125-SO1	Prep Batch	EU119224
Sampling Site		Analyst	jogres
Enthalpy ID	1025-1303-001-2	Instrument	Gimli
Matrix	aqueous	Sample Vol mL	316.16
Sampling Date	2025-10-31 13:40	Extract Vol mL	0.4
Received Date	2025-10-31	Split Factor	N/A
Prep Date	2025-11-06 08:02	Method Code	EU-047-NPW
AnalysisDate	2025-11-07 21:51		
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	GI071125047	4.71	0.201	0.506				
	PFPeA	2706-90-3	GI071125047	9.73	0.145	0.506				
	PFHxA	307-24-4	GI071125047	7.58	0.169	0.506				
	PFHpA	375-85-9	GI071125047	3.54	0.177	0.506				
	PFOA	335-67-1	GI071125047	6.07	0.116	0.506				
	PFNA	375-95-1	GI071125047	0.656	0.114	0.506				
	PFDA	335-76-2	GI071125047	0.277	0.145	0.506				
	PFUnDA	2058-94-8	GI071125047	ND	0.114	0.506			J	
	PFDoDA	307-55-1	GI071125047	ND	0.206	0.506			U	
	PFTrDA	72629-94-8	GI071125047	ND	0.168	0.506			U	
	PFTeDA	376-06-7	GI071125047	ND	0.193	0.506			U	
	PFHxDA	67905-19-5	GI071125047	ND	0.269	0.506			U	
	Sulfonates	PFBS	375-73-5	GI071125047	4.65	0.269	0.506			
		PFPeS	2706-91-4	GI071125047	0.872	0.104	0.477			
		PFHxS	355-46-4	GI071125047	6.07	0.391	0.463			
PFHpS		375-92-8	GI071125047	0.212	0.245	0.482			L	
PFOS		1763-23-1	GI071125047	12.5	0.267	0.469				
PFNS		68259-12-1	GI071125047	ND	0.157	0.487			U	
PFDS		335-77-3	GI071125047	ND	0.266	0.487			U	
4:2 FTS		757124-72-4	GI071125047	ND	0.0656	0.474			U	
6:2 FTS		27619-97-2	GI071125047	0.183	0.239	0.482			L	
8:2 FTS		39108-34-4	GI071125047	ND	0.113	0.485			U	
10:2 FTS	120226-60-0	GI071125047	ND	0.387	0.506			U		
Sulfonamidos	FBSA	30334-69-1	GI071125047	0.846	0.240	0.506				
	N-EtFOSA	4151-50-2	GI071125047	ND	0.313	0.506			U	
	N-EtFOSAA	2991-50-6	GI071125047	ND	0.206	0.506			U	
	N-EtFOSE	1691-99-2	GI071125047	ND	0.775	2.28			U	
	N-MeFOSA	31506-32-8	GI071125047	ND	0.209	0.506			U	
	N-MeFOSAA	2355-31-9	GI071125047	ND	0.142	0.506			U	
	N-MeFOSE	24448-09-7	GI071125047	ND	0.481	2.28			U	
	PFOSA	754-91-6	GI071125047	0.0705	0.0710	0.506			L	
	PFECAs	ADONA	919005-14-4	GI071125047	ND	0.137	0.479			U
		EVE Acid	69087-46-3	GI071125047	ND	0.161	1.14			U
HFPO-DA		13252-13-6	GI071125047	4.39	0.0536	0.506				
Hydro-EVE Acid		773804-62-9	GI071125047	0.169	0.166	0.506			J	
NFDHA		151772-58-6	GI071125047	ND	0.106	0.506			U	
PEPA		267239-61-2	GI071125047	2.50	0.0949	0.506				
PFECA-G		801212-59-9	GI071125047	ND	0.0675	0.506			U	
PFMOAA		674-13-5	GI071125047	8.21	0.256	0.506				
PFMOBA		863090-89-5	GI071125047	ND	0.849	1.14			U	
PFMOPrA		377-73-1	GI071125047	0.0153	0.180	0.506			L	
PFO2HxA		39492-88-1	GI071125047	4.56	0.163	0.506				
PFO3OA		39492-89-2	GI071125047	1.28	0.232	0.506				
PFO4DA		39492-90-5	GI071125047	ND	0.400	2.53			U	
PFO5DA		39492-91-6	GI071125047	ND	0.405	2.53			U	
PMPA		13140-29-9	GI071125047	7.06	0.119	0.506				
R-EVE	2416366-22-6	GI071125047	4.65	0.840	1.14					
PFESAs	11Cl-PF3OUdS	763051-92-9	GI071125047	ND	0.239	0.477			U	
	9Cl-PF3ONS	756426-58-1	GI071125047	ND	0.324	0.471			U	
	Hydrolyzed PSDA	2416366-19-1	GI071125047	5.01	0.337	0.506				
	Nafion Byproduct 1 (PS Acid)	29311-67-9	GI071125047	0.277	0.270	0.506			J	
	Nafion Byproduct 2 (Hydro-PS Acid)	749836-20-2	GI071125047	0.522	0.419	0.506				
	NVHOS	1132933-86-8	GI071125047	4.40	0.0780	0.506				
	PFEESA	113507-82-7	GI071125047	ND	0.152	0.506			U	
	R-PSDA	2416366-18-0	GI071125047	6.86	2.23	2.23				
R-PSDCA	2416366-21-5	GI071125047	ND	0.213	0.506			U		
ES	MPFBA		GI071125047				20-150%	85.8%		
	M5PFPeA		GI071125047				20-150%	135%		
	M3PFBS		GI071125047				20-150%	144%		
	M2-4:2 FTS		GI071125047				20-150%	90.3%		
	M5PFHxA		GI071125047				20-150%	94.4%		
	M3HFPO-DA		GI071125047				20-150%	102%		

# Enthalpy Analytical

Job No.: 1025-1303-1 PFAS by Isotope Dilution (non-potable water)

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

## Details

Sample Name	103125-SO1	Prep Batch	EU119224
Sampling Site		Analyst	jogres
Enthalpy ID	1025-1303-001-2	Instrument	Gimli
Matrix	aqueous	Sample Vol mL	316.16
Sampling Date	2025-10-31 13:40	Extract Vol mL	0.4
Received Date	2025-10-31	Split Factor	N/A
Prep Date	2025-11-06 08:02	Method Code	EU-047-NPW
AnalysisDate	2025-11-07 21:51		
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		GI071125047				20-150%	98.3%	
M3PFHxS		GI071125047				20-150%	103%	
M2-6:2 FTS		GI071125047				20-150%	106%	
M8PFOA		GI071125047				20-150%	101%	
M9PFNA		GI071125047				20-150%	99.8%	
M8PFOS		GI071125047				20-150%	99.9%	
M2-8:2 FTS		GI071125047				20-150%	101%	
M8FOSA-I		GI071125047				20-150%	89.0%	
M6PFDA		GI071125047				20-150%	99.1%	
d3-N-MeFOSAA		GI071125047				20-150%	100%	
d5-N-EtFOSAA		GI071125047				20-150%	97.2%	
M7PFUdA		GI071125047				20-150%	94.5%	
MPFDoA		GI071125047				20-150%	86.4%	
M2PFTeDA		GI071125047				20-150%	59.9%	
d3-N-MeFOSA		GI071125047				10-200%	58.2%	
d5-N-EtFOSA		GI071125047				10-200%	48.3%	
d7-N-MeFOSE		GI071125047				10-200%	87.5%	
d9-N-EtFOSE		GI071125047				10-200%	75.6%	

# Enthalpy Analytical

Job No.: 1025-1303-1 PFAS by Isotope Dilution (non-potable water)

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

## Details

Sample Name	103125-EO1	Prep Batch	EU119214
Sampling Site		Analyst	zoeardt
Enthalpy ID	1025-1303-002-1	Instrument	Bumblebee
Matrix	aqueous	Sample Vol mL	1
Sampling Date	2025-10-31 13:40	Extract Vol mL	0.2
Received Date	2025-10-31	Split Factor	N/A
Prep Date	2025-11-05 14:58	Method Code	EU-047-NPW
AnalysisDate	2025-11-06 15:59		
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	PFPrA	422-64-0	B061125-11061559	ND	70.0	153			U
ES	<sup>13</sup> C3-PFPrA		B061125-11061559				20-150%	122%	

# Enthalpy Analytical

Job No.: 1025-1303-1 PFAS by Isotope Dilution (non-potable water)

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

## Details

Sample Name	103125-EO1	Prep Batch	EU119224
Sampling Site		Analyst	jogres
Enthalpy ID	1025-1303-002-2	Instrument	Gimli
Matrix	aqueous	Sample Vol mL	310.55
Sampling Date	2025-10-31 13:40	Extract Vol mL	0.4
Received Date	2025-10-31	Split Factor	N/A
Prep Date	2025-11-06 08:02	Method Code	EU-047-NPW
AnalysisDate	2025-11-07 22:14		
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	GI071125048	5.08	0.204	0.515				
	PFPeA	2706-90-3	GI071125048	10.4	0.147	0.515				
	PFHxA	307-24-4	GI071125048	7.67	0.172	0.515				
	PFHpA	375-85-9	GI071125048	3.58	0.180	0.515				
	PFOA	335-67-1	GI071125048	5.87	0.118	0.515				
	PFNA	375-95-1	GI071125048	0.678	0.116	0.515				
	PFDA	335-76-2	GI071125048	0.272	0.147	0.515				
	PFUnDA	2058-94-8	GI071125048	ND	0.116	0.515			J	
	PFDoDA	307-55-1	GI071125048	ND	0.209	0.515			U	
	PFTrDA	72629-94-8	GI071125048	ND	0.171	0.515			U	
	PFTeDA	376-06-7	GI071125048	ND	0.196	0.515			U	
	PFHxDA	67905-19-5	GI071125048	ND	0.274	0.515			U	
	Sulfonates	PFBS	375-73-5	GI071125048	5.04	0.274	0.515			
		PFPeS	2706-91-4	GI071125048	0.731	0.106	0.485			
PFHxS		355-46-4	GI071125048	5.65	0.398	0.472				
PFHpS		375-92-8	GI071125048	0.201	0.250	0.491			L	
PFOS		1763-23-1	GI071125048	11.3	0.272	0.477				
PFNS		68259-12-1	GI071125048	ND	0.160	0.496			U	
PFDS		335-77-3	GI071125048	ND	0.270	0.496			U	
4:2 FTS		757124-72-4	GI071125048	ND	0.0668	0.483			U	
6:2 FTS		27619-97-2	GI071125048	0.139	0.243	0.491			L	
8:2 FTS		39108-34-4	GI071125048	ND	0.115	0.494			U	
10:2 FTS	120226-60-0	GI071125048	ND	0.394	0.515			U		
Sulfonamidos	FBSA	30334-69-1	GI071125048	0.789	0.245	0.515				
	N-EtFOSA	4151-50-2	GI071125048	ND	0.319	0.515			U	
	N-EtFOSAA	2991-50-6	GI071125048	ND	0.209	0.515			U	
	N-EtFOSE	1691-99-2	GI071125048	ND	0.789	2.32			U	
	N-MeFOSA	31506-32-8	GI071125048	ND	0.213	0.515			U	
	N-MeFOSAA	2355-31-9	GI071125048	ND	0.145	0.515			U	
	N-MeFOSE	24448-09-7	GI071125048	ND	0.489	2.32			U	
	PFOSA	754-91-6	GI071125048	0.827	0.0723	0.515				
	PFECAs	ADONA	919005-14-4	GI071125048	ND	0.140	0.488			U
		EVE Acid	69087-46-3	GI071125048	0.000415	0.164	1.16			L
HFPO-DA		13252-13-6	GI071125048	4.06	0.0546	0.515				
Hydro-EVE Acid		773804-62-9	GI071125048	0.172	0.169	0.515			J	
NFDHA		151772-58-6	GI071125048	ND	0.108	0.515			U	
PEPA		267239-61-2	GI071125048	3.66	0.0966	0.515				
PFECA-G		801212-59-9	GI071125048	ND	0.0687	0.515			U	
PFMOAA		674-13-5	GI071125048	2.61	0.261	0.515				
PFMOBA		863090-89-5	GI071125048	ND	0.865	1.16			U	
PFMOPrA		377-73-1	GI071125048	0.0473	0.184	0.515			L	
PFO2HxA		39492-88-1	GI071125048	4.05	0.166	0.515				
PFO3OA		39492-89-2	GI071125048	1.16	0.237	0.515				
PFO4DA		39492-90-5	GI071125048	ND	0.407	2.58			U	
PFO5DA		39492-91-6	GI071125048	ND	0.412	2.58			U	
PMPA	13140-29-9	GI071125048	6.99	0.121	0.515					
R-EVE	2416366-22-6	GI071125048	4.12	0.855	1.16					
PFESAs	11Cl-PF3OUds	763051-92-9	GI071125048	ND	0.243	0.485			U	
	9Cl-PF3ONS	756426-58-1	GI071125048	ND	0.330	0.480			U	
	Hydrolyzed PSDA	2416366-19-1	GI071125048	5.21	0.343	0.515				
	Nafion Byproduct 1 (PS Acid)	29311-67-9	GI071125048	0.511	0.275	0.515			J	
	Nafion Byproduct 2 (Hydro-PS Acid)	749836-20-2	GI071125048	0.539	0.427	0.515				
	NVHOS	1132933-86-8	GI071125048	7.38	0.0794	0.515				
	PFEESA	113507-82-7	GI071125048	ND	0.155	0.515			U	
R-PSDA	2416366-18-0	GI071125048	6.55	2.27	2.27					
R-PSDCA	2416366-21-5	GI071125048	ND	0.217	0.515			U		
ES	MPFBA		GI071125048				20-150%	54.1%		
	M5PFPeA		GI071125048				20-150%	126%		
	M3PFBS		GI071125048				20-150%	141%		
	M2-4:2 FTS		GI071125048				20-150%	85.0%		
	M5PFHxA		GI071125048				20-150%	101%		
	M3HFPO-DA		GI071125048				20-150%	107%		

# Enthalpy Analytical

Job No.: 1025-1303-1 PFAS by Isotope Dilution (non-potable water)

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

## Details

Sample Name	103125-EO1	Prep Batch	EU119224
Sampling Site		Analyst	jogres
Enthalpy ID	1025-1303-002-2	Instrument	Gimli
Matrix	aqueous	Sample Vol mL	310.55
Sampling Date	2025-10-31 13:40	Extract Vol mL	0.4
Received Date	2025-10-31	Split Factor	N/A
Prep Date	2025-11-06 08:02	Method Code	EU-047-NPW
AnalysisDate	2025-11-07 22:14		
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		GI071125048				20-150%	105%	
M3PFHxS		GI071125048				20-150%	101%	
M2-6:2 FTS		GI071125048				20-150%	106%	
M8PFOA		GI071125048				20-150%	106%	
M9PFNA		GI071125048				20-150%	106%	
M8PFOS		GI071125048				20-150%	103%	
M2-8:2 FTS		GI071125048				20-150%	105%	
M8FOSA-I		GI071125048				20-150%	88.1%	
M6PFDA		GI071125048				20-150%	103%	
d3-N-MeFOSAA		GI071125048				20-150%	103%	
d5-N-EtFOSAA		GI071125048				20-150%	104%	
M7PFUdA		GI071125048				20-150%	100%	
MPFDoA		GI071125048				20-150%	91.1%	
M2PFTeDA		GI071125048				20-150%	69.9%	
d3-N-MeFOSA		GI071125048				10-200%	20.8%	
d5-N-EtFOSA		GI071125048				10-200%	17.1%	
d7-N-MeFOSE		GI071125048				10-200%	82.8%	
d9-N-EtFOSE		GI071125048				10-200%	69.5%	

# QC Data

# Enthalpy Analytical

Job No.: 1025-1303-1 PFAS by Isotope Dilution (non-potable water)  
 Brunswick County Public Utilities - NC NORTHWEST WATER PLANT Leland, NC

## Details

Sample Name	MB_119214_PFAS	Prep Batch	EU119214
Sampling Site		Analyst	zoeardt
Enthalpy ID	MB_119214_PFAS	Instrument	Bumblebee
Matrix	aqueous	Sample Vol mL	1
Sampling Date		Extract Vol mL	0.2
Received Date		Split Factor	N/A
Prep Date	2025-11-05 14:58	Method Code	EU-047-NPW
AnalysisDate	2025-11-06 15:24		
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	B061125-11061524	ND	70.0	153			U
ES	13C3-PFPrA		B061125-11061524				20-150%	135%	

# Enthalpy Analytical

Job No.: 1025-1303-1 PFAS by Isotope Dilution (non-potable water)

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

## Details

Sample Name	MB_119224_PFAS	Prep Batch	EU119224
Sampling Site		Analyst	jogres
Enthalpy ID	MB_119224_PFAS	Instrument	Gimli
Matrix	aqueous	Sample Vol mL	250
Sampling Date		Extract Vol mL	0.4
Received Date		Split Factor	N/A
Prep Date	2025-11-06 08:02	Method Code	EU-047-NPW
AnalysisDate	2025-11-07 21:06		
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	GI071125045	ND	0.254	0.640			U	
	PFPeA	2706-90-3	GI071125045	ND	0.183	0.640			U	
	PFHxA	307-24-4	GI071125045	ND	0.214	0.640			U	
	PFHpA	375-85-9	GI071125045	ND	0.224	0.640			U	
	PFOA	335-67-1	GI071125045	ND	0.146	0.640			U	
	PFNA	375-95-1	GI071125045	ND	0.145	0.640			U	
	PFDA	335-76-2	GI071125045	ND	0.183	0.640			U	
	PFUnDA	2058-94-8	GI071125045	ND	0.145	0.640			U	
	PFDoDA	307-55-1	GI071125045	ND	0.260	0.640			U	
	PFTrDA	72629-94-8	GI071125045	ND	0.212	0.640			U	
	PFTeDA	376-06-7	GI071125045	ND	0.244	0.640			U	
	PFHxDA	67905-19-5	GI071125045	ND	0.340	0.640			U	
	Sulfonates	PFBS	375-73-5	GI071125045	ND	0.340	0.640			U
		PFPeS	2706-91-4	GI071125045	ND	0.131	0.603			U
		PFHxS	355-46-4	GI071125045	ND	0.494	0.586			U
PFHpS		375-92-8	GI071125045	ND	0.310	0.610			U	
PFOS		1763-23-1	GI071125045	ND	0.338	0.593			U	
PFNS		68259-12-1	GI071125045	ND	0.199	0.616			U	
PFDS		335-77-3	GI071125045	ND	0.336	0.616			U	
4:2 FTS		757124-72-4	GI071125045	ND	0.0830	0.600			U	
6:2 FTS		27619-97-2	GI071125045	ND	0.302	0.610			U	
8:2 FTS		39108-34-4	GI071125045	ND	0.143	0.613			U	
10:2 FTS	120226-60-0	GI071125045	ND	0.490	0.640			U		
Sulfonamidos	FBSA	30334-69-1	GI071125045	ND	0.304	0.640			U	
	N-EtFOSA	4151-50-2	GI071125045	ND	0.396	0.640			U	
	N-EtFOSAA	2991-50-6	GI071125045	ND	0.260	0.640			U	
	N-EtFOSE	1691-99-2	GI071125045	ND	0.980	2.88			U	
	N-MeFOSA	31506-32-8	GI071125045	ND	0.264	0.640			U	
	N-MeFOSAA	2355-31-9	GI071125045	ND	0.180	0.640			U	
	N-MeFOSE	24448-09-7	GI071125045	ND	0.608	2.88			U	
	PFOSA	754-91-6	GI071125045	ND	0.0898	0.640			U	
	PFECAs	ADONA	919005-14-4	GI071125045	ND	0.173	0.606			U
		EVE Acid	69087-46-3	GI071125045	ND	0.204	1.44			U
HFPO-DA		13252-13-6	GI071125045	ND	0.0678	0.640			U	
Hydro-EVE Acid		773804-62-9	GI071125045	ND	0.210	0.640			U	
NFDHA		151772-58-6	GI071125045	ND	0.135	0.640			U	
PEPA		267239-61-2	GI071125045	ND	0.120	0.640			U	
PFECA-G		801212-59-9	GI071125045	ND	0.0854	0.640			U	
PFMOAA		674-13-5	GI071125045	ND	0.324	0.640			U	
PFMOBA		863090-89-5	GI071125045	ND	1.07	1.44			U	
PFMOPrA		377-73-1	GI071125045	ND	0.228	0.640			U	
PFO2HxA		39492-88-1	GI071125045	ND	0.206	0.640			U	
PFO3OA		39492-89-2	GI071125045	ND	0.294	0.640			U	
PFO4DA		39492-90-5	GI071125045	ND	0.506	3.20			U	
PFO5DA		39492-91-6	GI071125045	ND	0.512	3.20			U	
PMPA		13140-29-9	GI071125045	ND	0.151	0.640			U	
R-EVE	2416366-22-6	GI071125045	ND	1.06	1.44			U		
PFESAs	11Cl-PF3OUds	763051-92-9	GI071125045	ND	0.302	0.603			U	
	9Cl-PF3ONS	756426-58-1	GI071125045	ND	0.410	0.596			U	
	Hydrolyzed PSDA	2416366-19-1	GI071125045	ND	0.426	0.640			U	
	Nafion Byproduct 1 (PS Acid)	29311-67-9	GI071125045	ND	0.342	0.640			U	
	Nafion Byproduct 2 (Hydro-PS Acid)	749836-20-2	GI071125045	ND	0.530	0.640			U	
	NVHOS	1132933-86-8	GI071125045	ND	0.0986	0.640			U	
	PFEESA	113507-82-7	GI071125045	ND	0.192	0.640			U	
	R-PSDA	2416366-18-0	GI071125045	ND	2.82	2.82			U	
R-PSDCA	2416366-21-5	GI071125045	ND	0.270	0.640			U		
ES	MPFBFA		GI071125045				20-150%	98.3%		
	M5PFPeA		GI071125045				20-150%	99.8%		
	M3PFBS		GI071125045				20-150%	98.1%		
	M2-4:2 FTS		GI071125045				20-150%	85.7%		
	M5PFHxA		GI071125045				20-150%	94.4%		
	M3HFPO-DA		GI071125045				20-150%	98.8%		

# Enthalpy Analytical

Job No.: 1025-1303-1 PFAS by Isotope Dilution (non-potable water)

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

## Details

Sample Name	MB_119224_PFAS	Prep Batch	EU119224
Sampling Site		Analyst	jogres
Enthalpy ID	MB_119224_PFAS	Instrument	Gimli
Matrix	aqueous	Sample Vol mL	250
Sampling Date		Extract Vol mL	0.4
Received Date		Split Factor	N/A
Prep Date	2025-11-06 08:02	Method Code	EU-047-NPW
AnalysisDate	2025-11-07 21:06		
SampleType	Blank		
Bottle ID	-		

Compound	CAS	Injection File Name	Sample Concentration ng/L	LOD ng/L	LOQ ng/L	Recovery Limits	Recovery	Flags
M4PFHpA		GI071125045				20-150%	94.1%	
M3PFHxS		GI071125045				20-150%	96.5%	
M2-6:2 FTS		GI071125045				20-150%	107%	
M8PFOA		GI071125045				20-150%	97.5%	
M9PFNA		GI071125045				20-150%	97.3%	
M8PFOS		GI071125045				20-150%	99.8%	
M2-8:2 FTS		GI071125045				20-150%	103%	
M8FOSA-I		GI071125045				20-150%	86.3%	
M6PFDA		GI071125045				20-150%	99.4%	
d3-N-MeFOSAA		GI071125045				20-150%	97.8%	
d5-N-EtFOSAA		GI071125045				20-150%	97.6%	
M7PFUdA		GI071125045				20-150%	96.4%	
MPFDoA		GI071125045				20-150%	93.3%	
M2PFTeDA		GI071125045				20-150%	84.3%	
d3-N-MeFOSA		GI071125045				10-200%	48.3%	
d5-N-EtFOSA		GI071125045				10-200%	44.0%	
d7-N-MeFOSE		GI071125045				10-200%	92.2%	
d9-N-EtFOSE		GI071125045				10-200%	87.1%	

# Enthalpy Analytical

Job No.: 1025-1303-1 PFAS by Isotope Dilution (non-potable water)

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

## Details

Sample Name	OPR_119214_PFAS	Prep Batch	EU119214
Sampling Site		Analyst	zoeardt
Enthalpy ID	OPR_119214_PFAS	Instrument	Bumblebee
Matrix	aqueous	Sample Vol mL	1
Sampling Date		Extract Vol mL	0.2
Received Date		Split Factor	N/A
Prep Date	2025-11-05 14:58	Method Code	EU-047-NPW
AnalysisDate	2025-11-06 15:35		
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	B061125-11061535	1380	70.0	153	40-150%	68.9%	
ES	<sup>13</sup> C3-PFPrA		B061125-11061535				20-150%	139%	

# Enthalpy Analytical

Job No.: 1025-1303-1 PFAS by Isotope Dilution (non-potable water)  
 Brunswick County Public Utilities - NC NORTHWEST WATER PLANT Leland, NC

Enthalpy ID	OPR_119224_PFAS	Prep Batch	EU119224	Sample Vol (mL)	250
Sample Name	OPR_119224_PFAS	Prep Date	2025-11-06 08:02	Extract Vol (mL)	0.4
Matrix	aqueous	Analysis Date	2025-11-07 21:28	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	GI071125046	16.2	0.254	0.640	47.9-144%	81.0%		
	PFPeA	2706-90-3	GI071125046	16.7	0.183	0.640	41.7-159%	83.6%		
	PFHxA	307-24-4	GI071125046	17.7	0.214	0.640	43.2-154%	88.7%		
	PFHpA	375-85-9	GI071125046	17.2	0.224	0.640	42.1-155%	85.9%		
	PFOA	335-67-1	GI071125046	17.5	0.146	0.640	51.1-148%	87.5%		
	PFNA	375-95-1	GI071125046	16.8	0.145	0.640	51.6-153%	84.0%		
	PFDA	335-76-2	GI071125046	17.4	0.183	0.640	44.5-156%	86.8%		
	PFUnDA	2058-94-8	GI071125046	17.4	0.145	0.640	40.3-156%	87.2%		
	PFDoDA	307-55-1	GI071125046	17.7	0.260	0.640	40.4-158%	88.5%		
	PFTrDA	72629-94-8	GI071125046	20.0	0.212	0.640	42.2-201%	100%		
	PFTeDA	376-06-7	GI071125046	17.4	0.244	0.640	43-162%	86.8%		
	Sulfonates	PFBS	375-73-5	GI071125046	15.2	0.340	0.640	42.7-155%	85.9%	
		PFPeS	2706-91-4	GI071125046	16.4	0.131	0.603	40.3-152%	87.4%	
PFHxS		355-46-4	GI071125046	15.9	0.494	0.586	45-148%	87.1%		
PFHpS		375-92-8	GI071125046	16.4	0.310	0.610	39.8-166%	85.8%		
PFOS		1763-23-1	GI071125046	15.6	0.338	0.593	59.2-132%	83.9%		
PFNS		68259-12-1	GI071125046	16.3	0.199	0.616	38.1-153%	84.7%		
PFDS		335-77-3	GI071125046	15.7	0.336	0.616	28.6-148%	81.1%		
4:2 FTS		757124-72-4	GI071125046	16.9	0.0830	0.600	41.5-157%	90.3%		
6:2 FTS		27619-97-2	GI071125046	17.1	0.302	0.610	44.5-160%	89.7%		
8:2 FTS		39108-34-4	GI071125046	16.6	0.143	0.613	39.4-166%	86.4%		
Sulfonamidos	N-EtFOSA	4151-50-2	GI071125046	16.8	0.396	0.640	26.7-172%	84.1%		
	N-EtFOSAA	2991-50-6	GI071125046	16.8	0.260	0.640	42.8-156%	84.1%		
	N-EtFOSE	1691-99-2	GI071125046	77.4	0.980	2.88	38.9-161%	86.0%		
	N-MeFOSA	31506-32-8	GI071125046	17.7	0.264	0.640	26.4-183%	88.7%		
	N-MeFOSAA	2355-31-9	GI071125046	17.5	0.180	0.640	42-155%	87.4%		
	N-MeFOSE	24448-09-7	GI071125046	76.2	0.608	2.88	37.6-155%	84.7%		
	PFOSA	754-91-6	GI071125046	17.1	0.0898	0.640	39.1-158%	85.7%		
PFECAs	ADONA	919005-14-4	GI071125046	15.9	0.173	0.606	32.2-151%	79.5%		
	HFPO-DA	13252-13-6	GI071125046	15.1	0.0678	0.640	61.8-131%	75.7%		
PFESAs	11Cl-PF3OUdS	763051-92-9	GI071125046	15.7	0.302	0.603	21.8-141%	78.7%		
	9Cl-PF3ONS	756426-58-1	GI071125046	15.8	0.410	0.596	37.6-146%	79.1%		
ES	MPFBA		GI071125046				20-150%	105%		
	M5PFPeA		GI071125046				20-150%	101%		
	M3PFBS		GI071125046				20-150%	97.2%		
	M2-4:2 FTS		GI071125046				20-150%	84.6%		
	M5PFHxA		GI071125046				20-150%	97.7%		
	M3HFPO-DA		GI071125046				20-150%	106%		
	M4PFHpA		GI071125046				20-150%	100%		
	M3PFHxS		GI071125046				20-150%	98.2%		
	M2-6:2 FTS		GI071125046				20-150%	108%		
	M8PFOA		GI071125046				20-150%	104%		
	M9PFNA		GI071125046				20-150%	103%		
	M8PFOS		GI071125046				20-150%	101%		
	M2-8:2 FTS		GI071125046				20-150%	105%		
	M8FOSA-I		GI071125046				20-150%	87.1%		
	M6PFDA		GI071125046				20-150%	101%		
	d3-N-MeFOSAA		GI071125046				20-150%	99.5%		
	d5-N-EtFOSAA		GI071125046				20-150%	98.7%		
	M7PFUDa		GI071125046				20-150%	97.0%		
	MPFDoA		GI071125046				20-150%	95.9%		
	M2PFTeDA		GI071125046				20-150%	85.7%		
	d3-N-MeFOSA		GI071125046				10-200%	61.6%		
d5-N-EtFOSA		GI071125046				10-200%	55.7%			
d7-N-MeFOSE		GI071125046				10-200%	93.0%			
d9-N-EtFOSE		GI071125046				10-200%	87.9%			

# Sample Custody



JOB ID:

Date / Time: 10/31/25 13:57

Initials: LGS

OR

Client: Brunswick County Utilities

Temp °C: 5.3

Thermometer ID: T13

Cooler  of

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:

Temp °C:

Thermometer ID:

Cooler  of

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:

LGS 10/31/25

Temp °C:

Thermometer ID:

Cooler  of

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: