



90 Sargent Drive • New Haven, Connecticut 06511-5966
203-401-6743 or 877-894-5773 (Telephone) • Website: www.rwater.com

Laboratory Certification IDs

CT: PH-0411, NH: 2239, NY: 11867, PA: 68-05519, RI: LAO00339, MA: M-CT004
See website, www.rwalab.com/rwa-lab-certifications, for certified analyte list.

Client: Paul Hennessy
Randolph-Holbrook Joint Water

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ANALYTICAL REPORT

Project: FEE-RANDOLPHHOLBROOK-23-000005

Report Date: 3/27/2023

Finished 16.92

This Laboratory is in compliance with the NELAP requirements of procedures used except where indicated.
This report contains results for the analysis tested, under the sampling conditions described on the Chain Of Custody (COC), as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.
The COC form has been scanned to accompany the analytical report and is an exact copy of the original.
If you are the client above and have any questions concerning this testing, please do not hesitate to contact RWA Client Services at (203) 401-6743 or (877) 894-5773. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Gary M. Alexander, Team Lead
Technical Representative



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SAMPLE SUMMARY

Sample ID	Customer ID	Collection Date/Time	Receipt Date
300316060	RAW	3/2/2023 1100	3/3/23
300316061	FB - RAW	3/2/2023 1100	3/3/23
300316062	FINISHED	3/2/2023 1100	3/3/23
300316063	FB - FINISHED	3/2/2023 1100	3/3/23

Case Narrative and Comments

All QC passes criteria unless noted in a Comment below.

Samples were received at the appropriate temperature and in accordance with the chain of custody unless noted.

E = Exceeds calibration range

ND = Non Detect

FB = Field Blank

RL = Minimum Reporting Level

MDL = Method Detection Limit

J = The reported result is below RL but greater than the MDL. The reported result is an estimate.

Massachusetts samples for required water quality sampling are included.

Samples and FBs were received in bottles with preservatives Trizma HCL & Trizma base per method requirements.

"FB" added at beginning/end designates "Field Blank" (Field Reagent Blank) for associated Customer ID sample.
Field Blank analytes (unless noted) were shown to be less than 1/3 of the RL as per EPA537.

Method EPA537 Analyte Results, MDL and RL are adjusted to reflect the actual Final (mL) volume used.

<u>Method</u>	<u>CAS#</u>	<u>PFAS Analyte (Acronym)</u>
537	1763-23-1	Perfluorooctanesulfonic acid (PFOS)
537	335-67-1	Perfluorooctanoic acid (PFOA)
537	355-46-4	Perfluorohexanesulfonic acid (PFHxS)
537	375-95-1	Perfluorononanoic acid (PFNA)
537	375-85-9	Perfluorohepatanoic acid (PFHpA)
537	335-76-2	Perfluorodecanoic acid (PFDA)
537	375-73-5	Perfluorobutanesulfonic acid (PFBS)
537	307-55-1	Perfluorododecanoic acid (PFDoA)
537	307-24-4	Perfluorohexanoic acid (PFHxA)
537	376-06-7	Perfluorotetradecanoic acid (PFTA)
537	72629-94-8	Perfluorotridecanoic acid (PFTTrDA)
537	2058-94-8	Perfluoroundecanoic acid (PFUnA)
537	2991-50-6	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)
537	2355-31-9	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)

PFAS6 (MassDEP) = sum of PFOS, PFOA, PFHxS, PFNA, PFHpA and PFDA (only include Results at or above the RL)

MassDEP has established a maximum contaminant level (MCL) of 20 ng/L for PFAS6.

Method EPA537 Analyte Results and RL are adjusted to reflect the actual sample Final (mL) volume used.

Regional Water Authority

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Sample ID: 300316060

Customer ID: RAW

Collection Date: 03/02/2023 11:00

PWS ID# / LOC ID#:

Project: FEE-RANDOLPHHOLBROOK-23-000005

Analyte	CAS#	Results	MDL	RL	Units	Dilution	Qualifier	Method	Date Time/ Analyzed	Analyst
PFBS	375-73-5	2.49	0.89	2.0	ng/L	1.0		EPA537	3/8/23 0246	CSS
PFHxA	307-24-4	2.88	0.68	2.0	ng/L	1.0		EPA537	3/8/23 0246	CSS
PFHpA	375-85-9	1.94	0.62	2.0	ng/L	1.0	J	EPA537	3/8/23 0246	CSS
PFHxS	355-46-4	2.54	0.90	2.0	ng/L	1.0		EPA537	3/8/23 0246	CSS
PFOA	335-67-1	4.31	0.72	2.0	ng/L	1.0		EPA537	3/8/23 0246	CSS
PFOS	1763-23-1	7.48	0.89	2.0	ng/L	1.0		EPA537	3/8/23 0246	CSS
PFNA	375-95-1	0.80	0.63	2.0	ng/L	1.0	J	EPA537	3/8/23 0246	CSS
PFDA	335-76-2	ND	0.72	2.0	ng/L	1.0		EPA537	3/8/23 0246	CSS
PFUnA	2058-94-8	ND	0.91	2.0	ng/L	1.0		EPA537	3/8/23 0246	CSS
NMeFOSAA	2355-31-9	ND	1.19	2.0	ng/L	1.0		EPA537	3/8/23 0246	CSS
NEtFOSAA	2991-50-6	ND	1.03	2.0	ng/L	1.0		EPA537	3/8/23 0246	CSS
PFDaA	307-55-1	ND	0.83	2.0	ng/L	1.0		EPA537	3/8/23 0246	CSS
PFTTrDA	72629-94-8	ND	0.90	2.0	ng/L	1.0		EPA537	3/8/23 0246	CSS
PFTA	376-06-7	ND	0.97	2.0	ng/L	1.0		EPA537	3/8/23 0246	CSS
PFAS6 (MassDEP)		14.33	2.00	2.00	ng/L					
Surrogates		Results		Recovery Limits		Pass/Fail				
13C-PFHxA (SUR) % Recovery		94.80		70 - 130		Pass				
13C-PFDA (SUR) % Recovery		93.40		70 - 130		Pass				
d5-NEtFOSAA (SUR) % Recovery		83.50		70 - 130		Pass				

Sample Extraction Data:

Lab Number (Field ID)	Prep Method	Batch	Final (mL)	Date
300316060	PFAS_537	537_EXT-230306-1	250	03/06/2023

Sample ID: 300316061

Customer ID: FB - RAW

Collection Date: 03/02/2023 11:00

PWS ID# / LOC ID#:

Project: FEE-RANDOLPHHOLBROOK-23-000005

Analyte	CAS#	Results	MDL	RL	Units	Dilution	Qualifier	Method	Date Time/ Analyzed	Analyst
PFBS	375-73-5	ND	0.93	2.08	ng/L	1.04		EPA537	3/8/23 0301	CSS
PFHxA	307-24-4	ND	0.71	2.08	ng/L	1.04		EPA537	3/8/23 0301	CSS
PFHpA	375-85-9	ND	0.64	2.08	ng/L	1.04		EPA537	3/8/23 0301	CSS
PFHxS	355-46-4	ND	0.94	2.08	ng/L	1.04		EPA537	3/8/23 0301	CSS
PFOA	335-67-1	ND	0.75	2.08	ng/L	1.04		EPA537	3/8/23 0301	CSS
PFOS	1763-23-1	ND	0.93	2.08	ng/L	1.04		EPA537	3/8/23 0301	CSS
PFNA	375-95-1	ND	0.66	2.08	ng/L	1.04		EPA537	3/8/23 0301	CSS
PFDA	335-76-2	ND	0.75	2.08	ng/L	1.04		EPA537	3/8/23 0301	CSS
PFUnA	2058-94-8	ND	0.95	2.08	ng/L	1.04		EPA537	3/8/23 0301	CSS
NMeFOSAA	2355-31-9	ND	1.24	2.08	ng/L	1.04		EPA537	3/8/23 0301	CSS
NEtFOSAA	2991-50-6	ND	1.07	2.08	ng/L	1.04		EPA537	3/8/23 0301	CSS
PFDoA	307-55-1	ND	0.86	2.08	ng/L	1.04		EPA537	3/8/23 0301	CSS
PFTTrDA	72629-94-8	ND	0.94	2.08	ng/L	1.04		EPA537	3/8/23 0301	CSS
PFTA	376-06-7	ND	1.01	2.08	ng/L	1.04		EPA537	3/8/23 0301	CSS
PFAS6 (MassDEP)		ND	2.08	2.08	ng/L	1.04				
Surrogates			Results		Recovery Limits		Pass/Fail			
13C-PFHxA (SUR) % Recovery			110.00		70 - 130		Pass			
13C-PFDA (SUR) % Recovery			90.10		70 - 130		Pass			
d5-NEtFOSAA (SUR) % Recovery			91.60		70 - 130		Pass			

Sample Extraction Data:

Lab Number (Field ID)	Prep Method	Batch	Final (mL)	Date
300316061	PFAS_537	537_EXT-230306-1	240	03/06/2023

Sample ID: 300316062

Customer ID: FINISHED

Collection Date: 03/02/2023 11:00

PWS ID# / LOC ID#: 4244001 / 10296

Project: FEE-RANDOLPHHOLBROOK-23-000005

Analyte	CAS#	Results	MDL	RL	Units	Dilution	Qualifier	Method	Date Time/ Analyzed	Analyst
PFBS	375-73-5	2.56	0.89	2.0	ng/L	1.0		EPA537	3/8/23 0315	CSS
PFHxA	307-24-4	3.24	0.68	2.0	ng/L	1.0		EPA537	3/8/23 0315	CSS
PFHpA	375-85-9	2.15	0.62	2.0	ng/L	1.0		EPA537	3/8/23 0315	CSS
PFHxS	355-46-4	2.41	0.90	2.0	ng/L	1.0		EPA537	3/8/23 0315	CSS
PFOA	335-67-1	4.36	0.72	2.0	ng/L	1.0		EPA537	3/8/23 0315	CSS
PFOS	1763-23-1	8.00	0.89	2.0	ng/L	1.0		EPA537	3/8/23 0315	CSS
PFNA	375-95-1	0.93	0.63	2.0	ng/L	1.0	J	EPA537	3/8/23 0315	CSS
PFDA	335-76-2	ND	0.72	2.0	ng/L	1.0		EPA537	3/8/23 0315	CSS
PFUnA	2058-94-8	ND	0.91	2.0	ng/L	1.0		EPA537	3/8/23 0315	CSS
NMeFOSAA	2355-31-9	ND	1.19	2.0	ng/L	1.0		EPA537	3/8/23 0315	CSS
NEtFOSAA	2991-50-6	ND	1.03	2.0	ng/L	1.0		EPA537	3/8/23 0315	CSS
PFDaA	307-55-1	ND	0.83	2.0	ng/L	1.0		EPA537	3/8/23 0315	CSS
PFTTrDA	72629-94-8	ND	0.90	2.0	ng/L	1.0		EPA537	3/8/23 0315	CSS
PFTA	376-06-7	ND	0.97	2.0	ng/L	1.0		EPA537	3/8/23 0315	CSS
PFAS6 (MassDEP)		16.92	2.00	2.00	ng/L	1.0				
Surrogates		Results		Recovery Limits		Pass/Fail				
13C-PFHxA (SUR) % Recovery		99.60		70 - 130		Pass				
13C-PFDA (SUR) % Recovery		99.30		70 - 130		Pass				
d5-NEtFOSAA (SUR) % Recovery		87.00		70 - 130		Pass				

Sample Extraction Data:

Lab Number (Field ID)	Prep Method	Batch	Final (mL)	Date
300316062	PFAS_537	537_EXT-230306-1	250	03/06/2023

Sample ID: 300316063

Customer ID: FB - FINISHED

Collection Date: 03/02/2023 11:00

PWS ID# / LOC ID#:

Project: FEE-RANDOLPHHOLBROOK-23-000005

Analyte	CAS#	Results	MDL	RL	Units	Dilution	Qualifier	Method	Date Time/ Analyzed	Analyst
PFBS	375-73-5	ND	0.89	2.0	ng/L	1.0		EPA537	3/8/23 0330	CSS
PFHxA	307-24-4	ND	0.68	2.0	ng/L	1.0		EPA537	3/8/23 0330	CSS
PFHpA	375-85-9	ND	0.62	2.0	ng/L	1.0		EPA537	3/8/23 0330	CSS
PFHxS	355-46-4	ND	0.90	2.0	ng/L	1.0		EPA537	3/8/23 0330	CSS
PFOA	335-67-1	ND	0.72	2.0	ng/L	1.0		EPA537	3/8/23 0330	CSS
PFOS	1763-23-1	ND	0.89	2.0	ng/L	1.0		EPA537	3/8/23 0330	CSS
PFNA	375-95-1	ND	0.63	2.0	ng/L	1.0		EPA537	3/8/23 0330	CSS
PFDA	335-76-2	ND	0.72	2.0	ng/L	1.0		EPA537	3/8/23 0330	CSS
PFUnA	2058-94-8	ND	0.91	2.0	ng/L	1.0		EPA537	3/8/23 0330	CSS
NMeFOSAA	2355-31-9	ND	1.19	2.0	ng/L	1.0		EPA537	3/8/23 0330	CSS
NEtFOSAA	2991-50-6	ND	1.03	2.0	ng/L	1.0		EPA537	3/8/23 0330	CSS
PFDoA	307-55-1	ND	0.83	2.0	ng/L	1.0		EPA537	3/8/23 0330	CSS
PFTTrDA	72629-94-8	ND	0.90	2.0	ng/L	1.0		EPA537	3/8/23 0330	CSS
PFTA	376-06-7	ND	0.97	2.0	ng/L	1.0		EPA537	3/8/23 0330	CSS
PFAS6 (MassDEP)		ND	2.00	2.00	ng/L	1.0				
Surrogates			Results		Recovery Limits		Pass/Fail			
13C-PFHxA (SUR) % Recovery			102.30		70 - 130		Pass			
13C-PFDA (SUR) % Recovery			91.40		70 - 130		Pass			
d5-NEtFOSAA (SUR) % Recovery			85.80		70 - 130		Pass			

Sample Extraction Data:

Lab Number (Field ID)	Prep Method	Batch	Final (mL)	Date
300316063	PFAS_537	537_EXT-230306-1	250	03/06/2023