

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

275 Pond St
Randolph, MA 02368

781-964-9292
phennessy@holbrookmassachusetts.us

ANALYTICAL REPORT

Project: FEE-RANDOLPHHOLBROOK-26-000002
Report Date: 2/27/2026

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.



Richard Sibley
Laboratory Manager
Technical Representative

SAMPLE SUMMARY

Sample ID	Customer ID	Collection Date/Time	Receipt Date
300792872	RAW	2/12/2026 1200	2/20/26
300792873	FIELD BLANK - RAW	2/12/2026 1200	2/20/26
300792874	FINISHED	2/12/2026 1200	2/20/26
300792875	FIELD BLANK - FINISHED	2/12/2026 1200	2/20/26

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 or EPA537.1.

Method EPA537 or EPA537.1 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, 537.1	1763-23-1	Perfluorooctanesulfonic acid (PFOS)
537, 537.1	335-67-1	Perfluorooctanoic acid (PFOA)
537, 537.1	355-46-4	Perfluorohexanesulfonic acid (PFHxS)
537, 537.1	375-95-1	Perfluorononanoic acid (PFNA)
537, 537.1	375-85-9	Perfluorohepatanoic acid (PFHpA)
537, 537.1	335-76-2	Perfluorodecanoic acid (PFDA)
537, 537.1	375-73-5	Perfluorobutanesulfonic acid (PFBS)
537, 537.1	307-55-1	Perfluorododecanoic acid (PFDoA)
537, 537.1	307-24-4	Perfluorohexanoic acid (PFHxA)
537, 537.1	376-06-7	Perfluorotetradecanoic acid (PFTA)
537, 537.1	72629-94-8	Perfluorotridecanoic acid (PFTrDA)
537, 537.1	2058-94-8	Perfluoroundecanoic acid (PFUnA)
537, 537.1	2991-50-6	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)
537, 537.1	2355-31-9	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)
537.1	763051-92-9	11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)
537.1	756426-58-1	9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)
537.1	919005-14-4	4,8-dioxa-3H-perfluorononanoic acid (ADONA)
537.1	13252-13-6	Hexafluoropropylene oxide dimer acid (HFPO-DA)

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 EPA537.1 Analyte Results and RL are adjusted to reflect the actual sample Final (mL) volume used.

Sample ID: 300792872

Customer ID: RAW

Collection Date: 02/12/2026 12:00

PWS ID# / LOC ID#: RAW

Project: FEE-RANDOLPHHOLBROOK-26-000002

Analyte	CAS#	Results	MDL	RL	Units	Dilution	Qualifier	Method	Date Time/ Analyzed	Analyst
PFBS	375-73-5	2.52	0.93	1.96	ng/L	0.98		EPA 537.1	2/20/26 0608	CSS
PFHxA	307-24-4	3.48	0.74	1.96	ng/L	0.98		EPA 537.1	2/20/26 0608	CSS
HFPO-DA	13252-13-6	ND	1.12	1.96	ng/L	0.98		EPA 537.1	2/20/26 0608	CSS
PFHpA	375-85-9	2.14	0.69	1.96	ng/L	0.98		EPA 537.1	2/20/26 0608	CSS
PFHxS	355-46-4	2.34	0.81	1.96	ng/L	0.98		EPA 537.1	2/20/26 0608	CSS
ADONA	919005-14-4	ND	0.62	1.96	ng/L	0.98		EPA 537.1	2/20/26 0608	CSS
PFOA	335-67-1	5.17	0.74	1.96	ng/L	0.98		EPA 537.1	2/20/26 0608	CSS
PFOS	1763-23-1	7.88	0.99	1.96	ng/L	0.98		EPA 537.1	2/20/26 0608	CSS
PFNA	375-95-1	0.92	0.71	1.96	ng/L	0.98	J	EPA 537.1	2/20/26 0608	CSS
9CI-PF3ONS	756426-58-1	ND	0.82	1.96	ng/L	0.98		EPA 537.1	2/20/26 0608	CSS
PFDA	335-76-2	ND	0.74	1.96	ng/L	0.98		EPA 537.1	2/20/26 0608	CSS
PFUnA	2058-94-8	ND	0.92	1.96	ng/L	0.98		EPA 537.1	2/20/26 0608	CSS
11CI-PF3OUdS	763051-92-9	ND	1.02	1.96	ng/L	0.98		EPA 537.1	2/20/26 0608	CSS
NMeFOSAA	2355-31-9	ND	1.13	1.96	ng/L	0.98		EPA 537.1	2/20/26 0608	CSS
NEtFOSAA	2991-50-6	ND	1.13	1.96	ng/L	0.98		EPA 537.1	2/20/26 0608	CSS
PFDoA	307-55-1	ND	0.88	1.96	ng/L	0.98		EPA 537.1	2/20/26 0608	CSS
PFTTrDA	72629-94-8	ND	0.91	1.96	ng/L	0.98		EPA 537.1	2/20/26 0608	CSS
PFTA	376-06-7	ND	1.02	1.96	ng/L	0.98		EPA 537.1	2/20/26 0608	CSS
PFAS6 (MassDEP)		17.53	1.96	1.96	ng/L	0.98				
Surrogates		Results		Recovery Limits		Pass/Fail				
13C-PFHxA (SUR) % Recovery		80.90		70 - 130		Pass				
13C3-HFPO-DA (SUR) % Recovery		93.50		70 - 130		Pass				
13C-PFDA (SUR) % Recovery		85.00		70 - 130		Pass				
d5-NEtFOSAA (SUR) % Recovery		77.40		70 - 130		Pass				

Sample Extraction Data:

Lab Number (Field ID)	Prep Method	Batch	Final (mL)	Date
300792872	PFAS_537	537_EXT-260224-1	256	02/16/2026

Sample ID: 300792873

Customer ID: FIELD BLANK - RAW

Collection Date: 02/12/2026 12:00

PWS ID# / LOC ID#: Field Blank

Project: FEE-RANDOLPHHOLBROOK-26-000002

Analyte	CAS#	Results	MDL	RL	Units	Dilution	Qualifier	Method	Date Time/ Analyzed	Analyst
PFBS	375-73-5	ND	0.93	1.96	ng/L	0.98		EPA 537.1	2/20/26 0624	CSS
PFHxA	307-24-4	ND	0.74	1.96	ng/L	0.98		EPA 537.1	2/20/26 0624	CSS
HFPO-DA	13252-13-6	ND	1.12	1.96	ng/L	0.98		EPA 537.1	2/20/26 0624	CSS
PFHpA	375-85-9	ND	0.69	1.96	ng/L	0.98		EPA 537.1	2/20/26 0624	CSS
PFHxS	355-46-4	ND	0.81	1.96	ng/L	0.98		EPA 537.1	2/20/26 0624	CSS
ADONA	919005-14-4	ND	0.62	1.96	ng/L	0.98		EPA 537.1	2/20/26 0624	CSS
PFOA	335-67-1	ND	0.74	1.96	ng/L	0.98		EPA 537.1	2/20/26 0624	CSS
PFOS	1763-23-1	ND	0.99	1.96	ng/L	0.98		EPA 537.1	2/20/26 0624	CSS
PFNA	375-95-1	ND	0.71	1.96	ng/L	0.98		EPA 537.1	2/20/26 0624	CSS
9CI-PF3ONS	756426-58-1	ND	0.82	1.96	ng/L	0.98		EPA 537.1	2/20/26 0624	CSS
PFDA	335-76-2	ND	0.74	1.96	ng/L	0.98		EPA 537.1	2/20/26 0624	CSS
PFUnA	2058-94-8	ND	0.92	1.96	ng/L	0.98		EPA 537.1	2/20/26 0624	CSS
11CI-PF3OUdS	763051-92-9	ND	1.02	1.96	ng/L	0.98		EPA 537.1	2/20/26 0624	CSS
NMeFOSAA	2355-31-9	ND	1.13	1.96	ng/L	0.98		EPA 537.1	2/20/26 0624	CSS
NEtFOSAA	2991-50-6	ND	1.13	1.96	ng/L	0.98		EPA 537.1	2/20/26 0624	CSS
PFDoA	307-55-1	ND	0.88	1.96	ng/L	0.98		EPA 537.1	2/20/26 0624	CSS
PFTTrDA	72629-94-8	ND	0.91	1.96	ng/L	0.98		EPA 537.1	2/20/26 0624	CSS
PFTA	376-06-7	ND	1.02	1.96	ng/L	0.98		EPA 537.1	2/20/26 0624	CSS
PFAS6 (MassDEP)		ND	1.96	1.96	ng/L	0.98				
Surrogates		Results	Recovery Limits		Pass/Fail					
13C-PFHxA (SUR) % Recovery		88.20	70 - 130		Pass					
13C3-HFPO-DA (SUR) % Recovery		84.10	70 - 130		Pass					
13C-PFDA (SUR) % Recovery		89.40	70 - 130		Pass					
d5-NEtFOSAA (SUR) % Recovery		86.30	70 - 130		Pass					

Sample Extraction Data:

Lab Number (Field ID)	Prep Method	Batch	Final (mL)	Date
300792873	PFAS_537	537_EXT-260224-1	256	02/16/2026

Sample ID: 300792874

Customer ID: FINISHED

Collection Date: 02/12/2026 12:00

PWS ID# / LOC ID#: 4244001/10296

Project: FEE-RANDOLPHHOLBROOK-26-000002

Analyte	CAS#	Results	MDL	RL	Units	Dilution	Qualifier	Method	Date Time/ Analyzed	Analyst
PFBS	375-73-5	2.52	0.91	1.92	ng/L	0.96		EPA 537.1	2/20/26 0639	CSS
PFHxA	307-24-4	3.50	0.72	1.92	ng/L	0.96		EPA 537.1	2/20/26 0639	CSS
HFPO-DA	13252-13-6	ND	1.09	1.92	ng/L	0.96		EPA 537.1	2/20/26 0639	CSS
PFHpA	375-85-9	2.03	0.67	1.92	ng/L	0.96		EPA 537.1	2/20/26 0639	CSS
PFHxS	355-46-4	2.62	0.80	1.92	ng/L	0.96		EPA 537.1	2/20/26 0639	CSS
ADONA	919005-14-4	ND	0.60	1.92	ng/L	0.96		EPA 537.1	2/20/26 0639	CSS
PFOA	335-67-1	5.47	0.73	1.92	ng/L	0.96		EPA 537.1	2/20/26 0639	CSS
PFOS	1763-23-1	7.37	0.97	1.92	ng/L	0.96		EPA 537.1	2/20/26 0639	CSS
PFNA	375-95-1	0.79	0.69	1.92	ng/L	0.96	J	EPA 537.1	2/20/26 0639	CSS
9CI-PF3ONS	756426-58-1	ND	0.81	1.92	ng/L	0.96		EPA 537.1	2/20/26 0639	CSS
PFDA	335-76-2	ND	0.72	1.92	ng/L	0.96		EPA 537.1	2/20/26 0639	CSS
PFUnA	2058-94-8	ND	0.90	1.92	ng/L	0.96		EPA 537.1	2/20/26 0639	CSS
11CI-PF3OUdS	763051-92-9	ND	1.00	1.92	ng/L	0.96		EPA 537.1	2/20/26 0639	CSS
NMeFOSAA	2355-31-9	ND	1.10	1.92	ng/L	0.96		EPA 537.1	2/20/26 0639	CSS
NEtFOSAA	2991-50-6	ND	1.10	1.92	ng/L	0.96		EPA 537.1	2/20/26 0639	CSS
PFDoA	307-55-1	ND	0.86	1.92	ng/L	0.96		EPA 537.1	2/20/26 0639	CSS
PFTTrDA	72629-94-8	ND	0.89	1.92	ng/L	0.96		EPA 537.1	2/20/26 0639	CSS
PFTA	376-06-7	ND	1.00	1.92	ng/L	0.96		EPA 537.1	2/20/26 0639	CSS
PFAS6 (MassDEP)		17.49	1.92	1.92	ng/L	0.96				
	Surrogates				Results			Recovery Limits		Pass/Fail
	13C-PFHxA (SUR) % Recovery				91.10			70 - 130		Pass
	13C3-HFPO-DA (SUR) % Recovery				103.00			70 - 130		Pass
	13C-PFDA (SUR) % Recovery				95.30			70 - 130		Pass
	d5-NEtFOSAA (SUR) % Recovery				90.90			70 - 130		Pass

Sample Extraction Data:

Lab Number (Field ID)	Prep Method	Batch	Final (mL)	Date
300792874	PFAS_537	537_EXT-260224-1	260	02/16/2026

Sample ID: 300792875

Customer ID: FIELD BLANK - FINISHED

Collection Date: 02/12/2026 12:00

PWS ID# / LOC ID#: Field Blank

Project: FEE-RANDOLPHHOLBROOK-26-000002

Analyte	CAS#	Results	MDL	RL	Units	Dilution	Qualifier	Method	Date Time/ Analyzed	Analyst
PFBS	375-73-5	ND	0.90	1.9	ng/L	0.95		EPA 537.1	2/20/26 0727	CSS
PFHxA	307-24-4	ND	0.71	1.9	ng/L	0.95		EPA 537.1	2/20/26 0727	CSS
HFPO-DA	13252-13-6	ND	1.08	1.9	ng/L	0.95		EPA 537.1	2/20/26 0727	CSS
PFHpA	375-85-9	ND	0.67	1.9	ng/L	0.95		EPA 537.1	2/20/26 0727	CSS
PFHxS	355-46-4	ND	0.79	1.9	ng/L	0.95		EPA 537.1	2/20/26 0727	CSS
ADONA	919005-14-4	ND	0.60	1.9	ng/L	0.95		EPA 537.1	2/20/26 0727	CSS
PFOA	335-67-1	ND	0.72	1.9	ng/L	0.95		EPA 537.1	2/20/26 0727	CSS
PFOS	1763-23-1	ND	0.96	1.9	ng/L	0.95		EPA 537.1	2/20/26 0727	CSS
PFNA	375-95-1	ND	0.68	1.9	ng/L	0.95		EPA 537.1	2/20/26 0727	CSS
9CI-PF3ONS	756426-58-1	ND	0.80	1.9	ng/L	0.95		EPA 537.1	2/20/26 0727	CSS
PFDA	335-76-2	ND	0.71	1.9	ng/L	0.95		EPA 537.1	2/20/26 0727	CSS
PFUnA	2058-94-8	ND	0.89	1.9	ng/L	0.95		EPA 537.1	2/20/26 0727	CSS
11CI-PF3OUdS	763051-92-9	ND	0.99	1.9	ng/L	0.95		EPA 537.1	2/20/26 0727	CSS
NMeFOSAA	2355-31-9	ND	1.09	1.9	ng/L	0.95		EPA 537.1	2/20/26 0727	CSS
NEtFOSAA	2991-50-6	ND	1.09	1.9	ng/L	0.95		EPA 537.1	2/20/26 0727	CSS
PFDaA	307-55-1	ND	0.86	1.9	ng/L	0.95		EPA 537.1	2/20/26 0727	CSS
PFTTrDA	72629-94-8	ND	0.88	1.9	ng/L	0.95		EPA 537.1	2/20/26 0727	CSS
PFTA	376-06-7	ND	0.99	1.9	ng/L	0.95		EPA 537.1	2/20/26 0727	CSS
PFAS6 (MassDEP)		ND	1.9	1.9	ng/L	0.95				
	Surrogates				Results		Recovery Limits		Pass/Fail	
	13C-PFHxA (SUR) % Recovery				89.40		70 - 130		Pass	
	13C3-HFPO-DA (SUR) % Recovery				87.00		70 - 130		Pass	
	13C-PFDA (SUR) % Recovery				91.90		70 - 130		Pass	
	d5-NEtFOSAA (SUR) % Recovery				85.40		70 - 130		Pass	

Sample Extraction Data:

Lab Number (Field ID)	Prep Method	Batch	Final (mL)	Date
300792875	PFAS_537	537_EXT-260224-1	264	02/16/2026

South Central Connecticut Regional Water Authority PFAS QA/QC Summary

Extraction Batch QC for: EPA 537.1

MA Lab Cert.#: M-CT004

Extraction Batch Date: 2/16/2026

Sample ID for LFSM/LFSMD: 300790859

Analyte	LFSM %Recovery	LFSMD %Recovery	RPD of LFSM/LFSMD	LRB (MRL is 2)		LFB 60.0 ng/L %Recovery
	Acceptance Range 70-130%	Acceptance Range 70-130%	Acceptance Limit <30%	Result, ng/L	Meets < 1/3 of MRL criteria?	Acceptance Range 70-130%
PFBS	91.9	89.7	2.1	ND	[Y]	91.2
PFHxA	91.4	89.2	2.1	ND	[Y]	90.9
HFPO-DA	106.5	97.3	9.0	ND	[Y]	84.7
PFHpA	96.2	91.9	4.1	ND	[Y]	91.0
PFHxS	100.6	94.3	5.7	ND	[Y]	92.0
ADONA	89.3	87.6	1.9	ND	[Y]	88.3
PFOA	100.8	99.7	0.9	ND	[Y]	93.0
PFOS	95.7	90.9	3.6	ND	[Y]	93.0
PFNA	102.5	100.0	2.4	ND	[Y]	94.3
9CI-PF3ONS	94.3	93.3	1.1	ND	[Y]	92.9
PFDA	98.0	95.3	2.8	ND	[Y]	91.0
PFUnA	92.9	92.7	0.3	ND	[Y]	91.5
11CI-PF3OUdS	86.2	86.5	0.3	ND	[Y]	91.2
NMeFOSAA	92.2	86.5	6.2	ND	[Y]	91.7
NEtFOSAA	88.6	90.9	2.5	ND	[Y]	92.6
PFDoA	92.8	93.3	0.6	ND	[Y]	92.8
PFTrDA	86.1	88.5	2.8	ND	[Y]	92.3
PFTA	90.0	91.6	1.8	ND	[Y]	93.0

Surrogate %Recovery

¹³ C ₂ -PFHxA	¹³ C ₃ -HFPO-DA	¹³ C ₂ -PFDA	^d ₅ -NEtFOSAA	
91.70	102.90	98.30	89.70	LFSM
92.40	102.20	99.10	90.10	LFSMD
95.00	90.60	93.20	93.00	LRB
88.30	89.30	88.90	90.60	LFB

Note: The Surrogate %Recovery for Samples and Poured Field Blanks is included on Final Reports.

All Batch QC passes method criteria unless noted in "Comments" section below

Comments: The matrix spike data IS from a sample in this upload batch.

LRB = Laboratory Reagent Blank

RPD = relative percent difference

FB = Field Blank

ND = Non-Detect

LFB = Laboratory Fortified Blank

MRL = Method Reporting Level

Results are ng/L (ppt)

LFSM = Laboratory Fortified Sample Matrix

LFSM/LFSMD spike concentration is 20 ng/L, unless noted otherwise

LFSMD = Laboratory Fortified Sample Matrix Duplicate

Surrogate Acceptance Limit is 70 - 130% Recovery