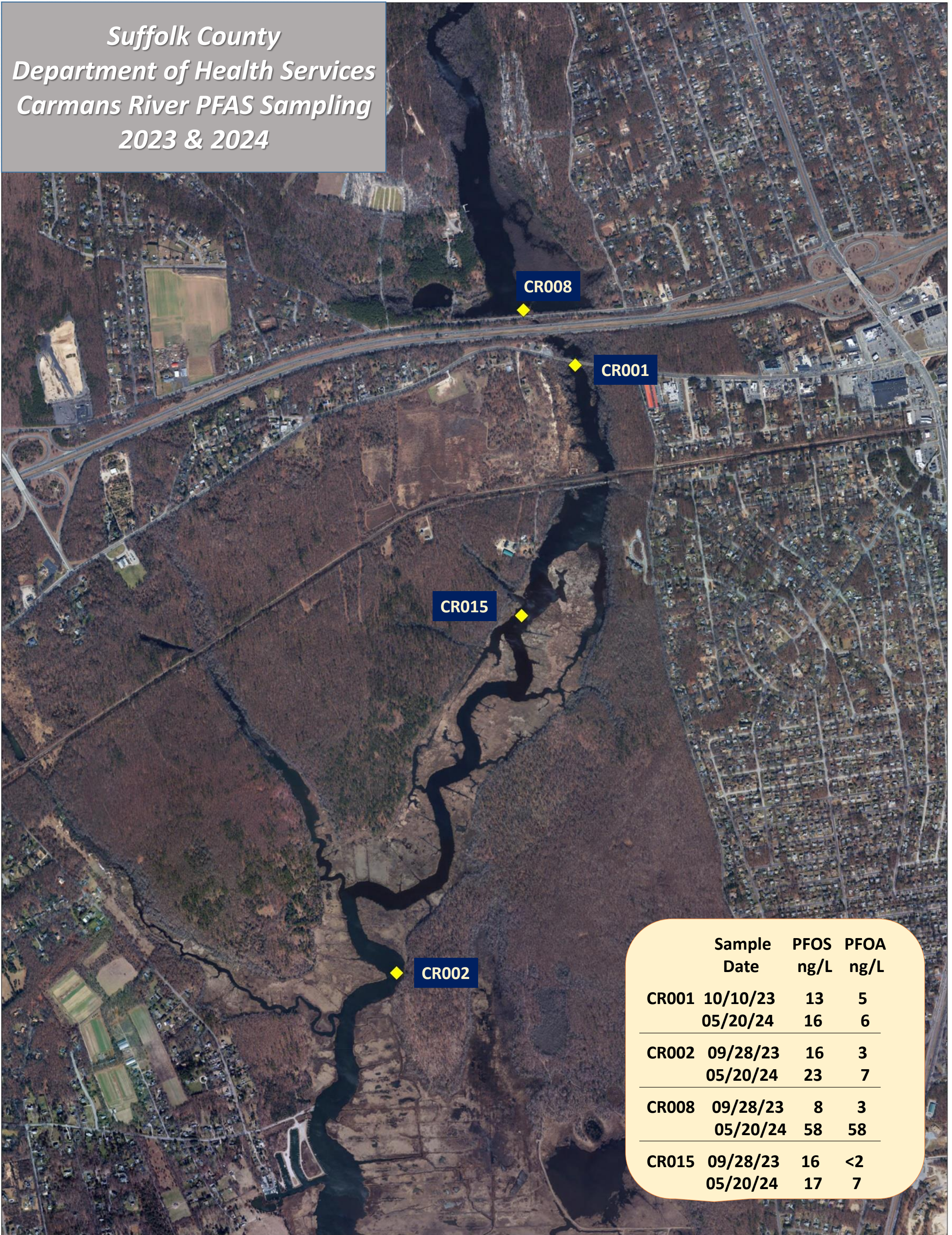


*Suffolk County
Department of Health Services
Carmans River PFAS Sampling
2023 & 2024*



	Sample Date	PFOS ng/L	PFOA ng/L
CR001	10/10/23	13	5
	05/20/24	16	6
CR002	09/28/23	16	3
	05/20/24	23	7
CR008	09/28/23	8	3
	05/20/24	58	58
CR015	09/28/23	16	<2
	05/20/24	17	7

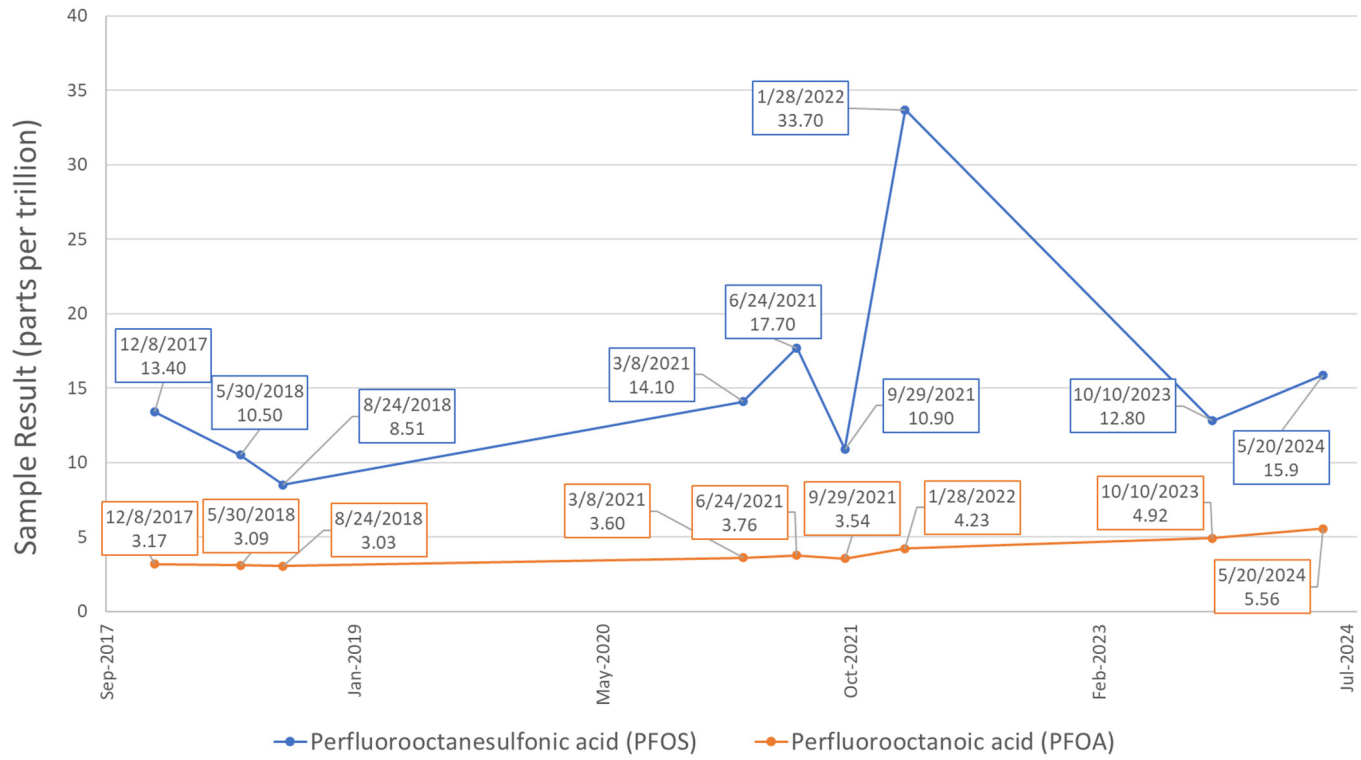
Suffolk County
Department of Health Services
Carmans River PFAS Sampling

Sampled Name	CR001		CR 002	
	10/10/2023	5/20/2024	9/28/2023	5/20/2024
11-CESF-3-oxaundecane-1-sulfonate (11Cl-PF3OUdS)	<2.000	<1.000	<2.000	<1.000
2,3,3,3-Tetrafluoro-2-propanoic acid (HFPO-DA)	<2.000	6.7	<2.000	<2.000
3:3 FTCA	<2.000	<5.000	<2.000	<5.000
4:2 FTS	<2.000	<2.000	<2.000	<2.000
5:3 FTCA	<5.000	<10.00	<5.000	<10.00
6:2 FTS	<2.000	<2.000	<2.000	<2.000
7:3 FTCA	<5.000	<20.00	<5.000	<20.00
8:2 FTS	<2.000	<5.000	<2.000	<5.000
9-CHDF-3-oxanonane-1-sulfonate (9Cl-PF3ONS)	<2.000	<1.000	<2.000	<1.000
Dodecafluoro-3H-4,8-dioxanooate (ADONA)	<2.000	<1.000	<2.000	<1.000
N-EtFOSA	<5.000	<1.000	<5.000	<1.000
N-EtFOSAA	<2.000	<1.000	<2.000	<1.000
N-EtFOSE	<5.000	<5.000	<5.000	<5.000
N-MeFOSA	4.02	<2.000	<2.000	<2.000
N-MeFOSAA	<2.000	<2.000	<2.000	<2.000
N-MeFOSE	<5.000	<10.00	<5.000	<10.00
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	<2.000	<0.5000	<2.000	<0.5000
Perfluoro-1-decanesulfonate (PFDS)	17.26	<1.000	<2.000	<1.000
Perfluoro-1-dodecanesulfonate (PFDoS)	<2.000	<2.000	<2.000	<2.000
Perfluoro-1-nonanesulfonate (PFNS)	<2.000	<1.000	<2.000	<1.000
Perfluoro-3-6,dioxaheptanoic acid (NFDHA)	<5.000	<1.000	<5.000	<1.000
Perfluoro-4-oxapentanoic acid (PFMPA)	<5.000	<1.000	<5.000	<1.000
Perfluoro-5-oxahexanoic acid (PFMBA)	<5.000	<1.000	<5.000	<1.000
Perfluorobutanesulfonic Acid (PFBS)	<2.000	2.76	2.1	<0.5000
Perfluorobutanoic Acid (PFBA)	<2.000	<2.000	4.98	<2.000
Perfluorodecanoic Acid (PFDA)	<2.000	<1.000	<2.000	<1.000
Perfluorododecanoic Acid (PFDoA)	<2.000	<0.5000	<2.000	<0.5000
Perfluoroheptanesulfonic Acid (PFHpS)	<2.000	<0.5000	<2.000	<0.5000
Perfluoroheptanoic Acid (PFHpA)	<2.000	<1.000	2.38	<1.000
Perfluorohexanesulfonic Acid (PFHxS)	6.66	8.6	4.52	8.7
Perfluorohexanoic Acid (PFHxA)	<2.000	<1.000	5.64	7.24
Perfluorononanoic Acid (PFNA)	<2.000	5.84	3.5	5.82
Perfluorooctanesulfonamide (FOSA)	<2.000	<0.5000	<2.000	<0.5000
Perfluorooctanesulfonic Acid (PFOS)	12.82	15.88	16.04	23.22
Perfluorooctanoic Acid (PFOA)	4.92	5.56	3.04	7.26
Perfluoropentanesulfonic Acid (PFPeS)	<2.000	<0.5000	<2.000	<0.5000
Perfluoropentanoic Acid (PFPeA)	7.28	7.44	6.2	9.16
Perfluorotetradecanoic Acid (PFTeA)	<2.000	<1.000	<2.000	<1.000
Perfluorotridecanoic Acid (PFTriA)	<2.000	<1.000	<2.000	<1.000
Perfluoroundecanoic Acid (PFUnA)	<2.000	<0.5000	<2.000	<0.5000

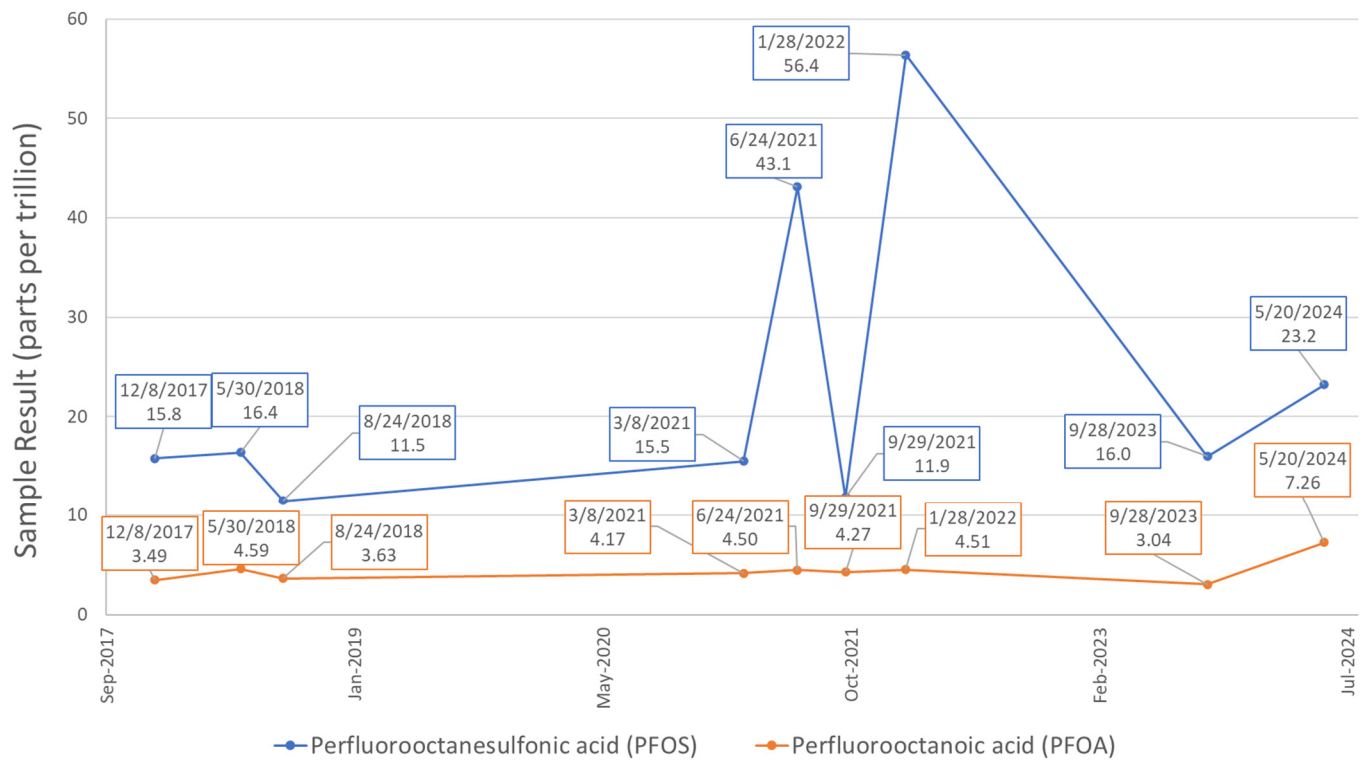
Suffolk County
Department of Health Services
Carmans River PFAS Sampling

Sampled Name	CR 008		CR 015	
	9/28/2023	5/20/2024	9/28/2023	5/20/2024
11-CESF-3-oxaundecane-1-sulfonate (11Cl-PF3OUdS)	<2.000	<1.000	<2.000	<1.000
2,3,3,3-Tetrafluoro-2-propanoic acid (HFPO-DA)	<2.000	<2.000	<2.000	<2.000
3:3 FTCA	3.62	<5.000	3.04	<5.000
4:2 FTS	<2.000	<2.000	<2.000	<2.000
5:3 FTCA	<5.000	<10.00	<5.000	<10.00
6:2 FTS	<2.000	<2.000	<2.000	<2.000
7:3 FTCA	<5.000	<20.00	<5.000	<20.00
8:2 FTS	<2.000	<5.000	<2.000	<5.000
9-CHDF-3-oxanonane-1-sulfonate (9Cl-PF3ONS)	<2.000	<1.000	<2.000	<1.000
Dodecafluoro-3H-4,8-dioxanooate (ADONA)	<2.000	<1.000	<2.000	<1.000
N-EtFOSA	<5.000	<1.000	<5.000	<1.000
N-EtFOSAA	<2.000	<1.000	<2.000	<1.000
N-EtFOSE	<5.000	<5.000	<5.000	<5.000
N-MeFOSA	<2.000	<2.000	<2.000	<2.000
N-MeFOSAA	<2.000	<2.000	2.44	<2.000
N-MeFOSE	<5.000	<10.00	<5.000	<10.00
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	<2.000	<0.5000	<2.000	<0.5000
Perfluoro-1-decanesulfonate (PFDS)	<2.000	<1.000	<2.000	<1.000
Perfluoro-1-dodecanesulfonate (PFDoS)	<2.000	<2.000	<2.000	<2.000
Perfluoro-1-nonanesulfonate (PFNS)	<2.000	<1.000	<2.000	<1.000
Perfluoro-3-6,dioxaheptanoic acid (NFDHA)	<5.000	<1.000	<5.000	<1.000
Perfluoro-4-oxapentanoic acid (PFMPA)	<5.000	<1.000	<5.000	<1.000
Perfluoro-5-oxahexanoic acid (PFMBA)	<5.000	<1.000	<5.000	<1.000
Perfluorobutanesulfonic Acid (PFBS)	<2.000	2.66	<2.000	2.15
Perfluorobutanoic Acid (PFBA)	5.02	<2.000	2.82	<2.000
Perfluorodecanoic Acid (PFDA)	<2.000	<1.000	<2.000	<1.000
Perfluorododecanoic Acid (PFDoA)	<2.000	<0.5000	<2.000	<0.5000
Perfluoroheptanesulfonic Acid (PFHpS)	<2.000	<0.5000	28.28	<0.5000
Perfluoroheptanoic Acid (PFHpA)	2.74	<1.000	<2.000	<1.000
Perfluorohexanesulfonic Acid (PFHxS)	4.68	7.12	6.58	10.48
Perfluorohexanoic Acid (PFHxA)	5.36	7.88	5.52	5.767
Perfluorononanoic Acid (PFNA)	2.22	3.48	4.72	6.1
Perfluorooctanesulfonamide (FOSA)	<2.000	<0.5000	<2.000	<0.5000
Perfluorooctanesulfonic Acid (PFOS)	7.5	57.6	16.2	17.28
Perfluorooctanoic Acid (PFOA)	3.12	57.8	<2.000	6.567
Perfluoropentanesulfonic Acid (PFPeS)	<2.000	<0.5000	<2.000	<0.5000
Perfluoropentanoic Acid (PFPeA)	5.84	7.9	6.6	7.15
Perfluorotetradecanoic Acid (PFTeA)	<2.000	<1.000	<2.000	<1.000
Perfluorotridecanoic Acid (PFTriA)	<2.000	<1.000	<2.000	<1.000
Perfluoroundecanoic Acid (PFUnA)	<2.000	<0.5000	<2.000	<0.5000

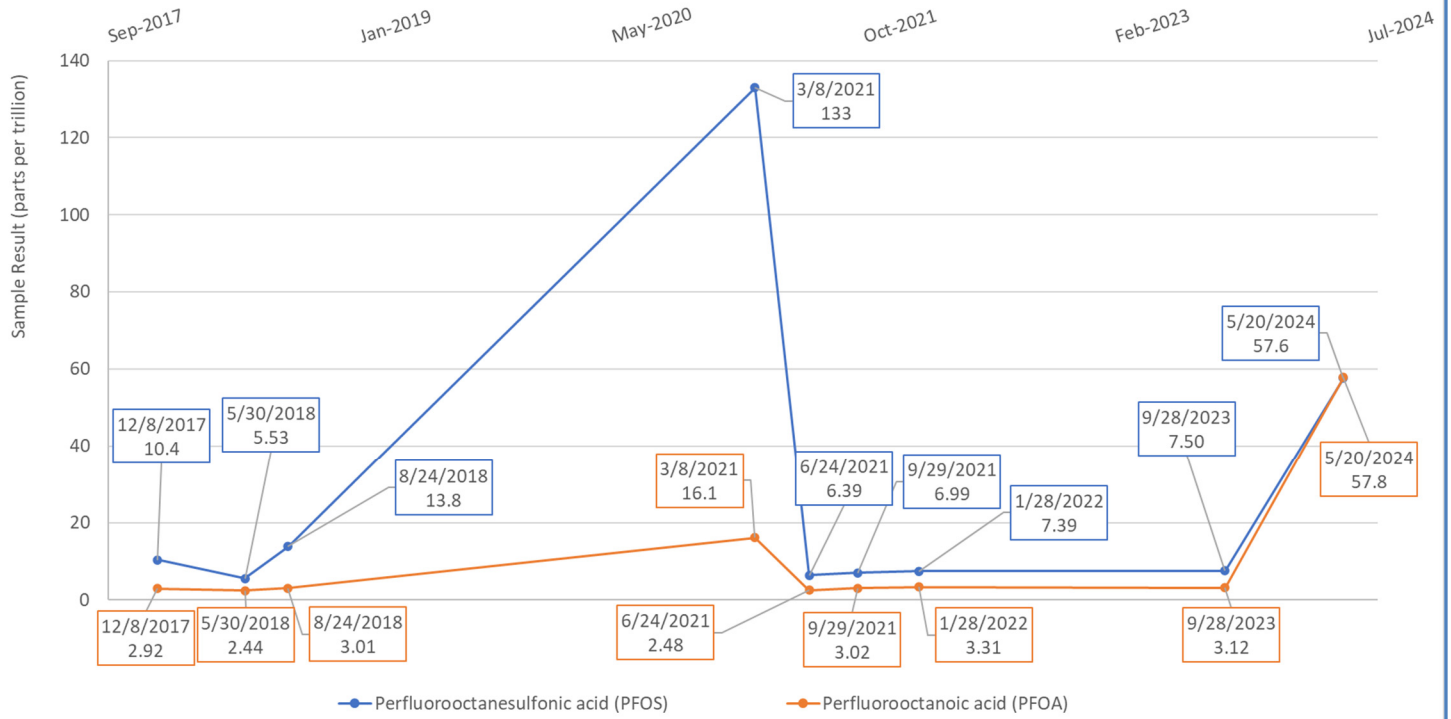
Carmans River - Surface Water Sampling Results (CR001)



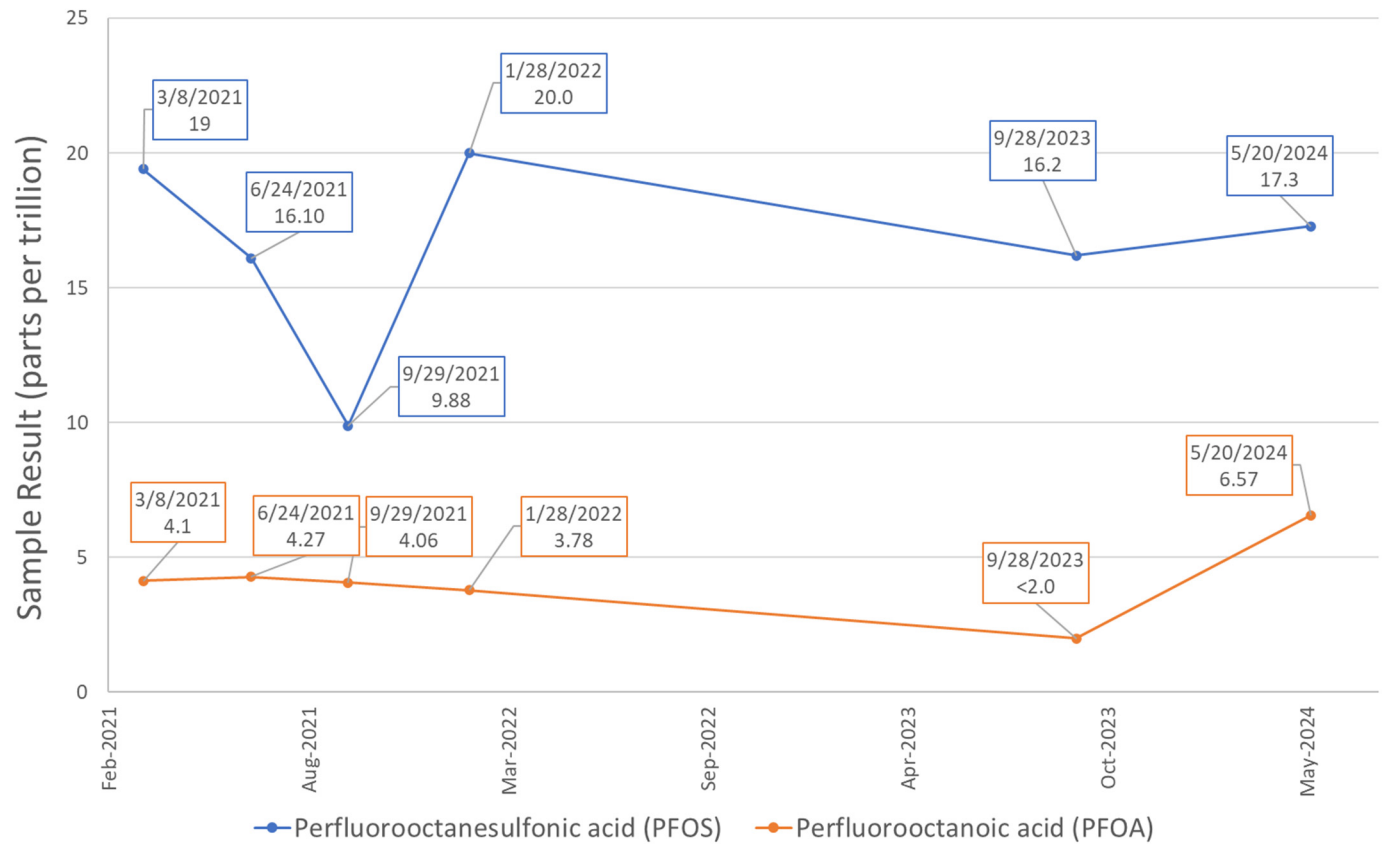
Carmans River - Surface Water Sampling Results (CR002)



Carmans River - Surface Water Sampling Results (CR008)



Carmans River - Surface Water Sampling Results (CR015)





LONG ISLAND ANALYTICAL LABORATORIES INC.

"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

Laboratory Report

NYSDOH ELAP# 11693
USEPA# NY01273
CTDOH# PH-0284
AIHA# 164456
NJDEP# NY012
PADEP# 68-2943

LIAL# 4052414

August 01, 2024

Suffolk County Dept of Health Services
Andrew Rapiejko
360 Yaphank Ave Suite 1C
Yaphank, NY 11980

Re: Carmans River Surface Water PO#00000075397

Dear Andrew Rapiejko,

Enclosed please find the laboratory Analysis Report(s) for sample(s) received on May 24, 2024. Long Island Analytical laboratories analyzed the samples on May 29, 2024 for the following:

SAMPLE ID	ANALYSIS
FB-110 240520 Field Blank	EPA 1633
001-110-240520 CR008	EPA 1633
002-110-240520 CR001	EPA 1633
003-110-240520 CR-015	EPA 1633
004-110-240520 CR-002	EPA 1633

Samples received at 2.4 ° C

If you have any questions or require further information, please call at your convenience. Long Island Analytical Laboratories Inc. is a NELAP accredited laboratory. All reported results meet the requirements of the NELAP standards unless noted. Report shall not be reproduced except in full without the written approval of the laboratory. Results related only to items tested. Long Island Analytical Laboratories would like to thank you for the opportunity to be of service to you.

Best Regards,

Long Island Analytical Laboratories, Inc.

Michael D. Veraldi
Laboratory Technical Director

Client: Suffolk County Dept of Health Services	Client ID: Carmans River Surface Water PO#00000075397
Date (Time) Collected: 05/20/2024 09:00	Sample ID: FB-110 240520 Field Blank
Date (Time) Received: 05/24/2024 11:35	Laboratory ID: 4052414-01
Matrix: Non-Potable Water	ELAP: #11693

PFCs Analysis

Parameter	CAS No.	LOQ	Result	Units	Flag
11-CESF-3-oxaundecane-1-sulfonate (11CI-PF3OUdS)	763051-92-9	1.000	<1.000	ng/L	
2,3,3,3-Tetrafluoro-2-propanoic acid (HFPO-DA)	13252-13-6	2.000	<2.000	ng/L	4.M
3:3 FTCA	356-02-5	5.000	<5.000	ng/L	
4:2 FTS	757124-72-4	2.000	<2.000	ng/L	
5:3 FTCA	914637-49-3	10.00	<10.00	ng/L	
6:2 FTS	27619-97-2	2.000	<2.000	ng/L	
7:3 FTCA	812-70-4	20.00	<20.00	ng/L	4.K
8:2 FTS	39108-34-4	5.000	<5.000	ng/L	
9-CHDF-3-oxanonane-1-sulfonate (9CI-PF3ONS)	756426-58-1	1.000	<1.000	ng/L	
Dodecafluoro-3H-4,8-dioxanonaate (ADONA)	919005-14-4	1.000	<1.000	ng/L	
N-EtFOSA	4151-50-2	1.000	<1.000	ng/L	
N-EtFOSAA	2991-50-6	1.000	<1.000	ng/L	4.K
N-EtFOSE	1691-99-2	5.000	<5.000	ng/L	
N-MeFOSA	31506-32-8	2.000	<2.000	ng/L	
N-MeFOSAA	2355-31-9	2.000	<2.000	ng/L	
N-MeFOSE	24448-09-7	10.00	<10.00	ng/L	
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	113507-82-7	0.5000	<0.5000	ng/L	
Perfluoro-1-decanesulfonate (PFDS)	335-77-3	1.000	<1.000	ng/L	
Perfluoro-1-dodecanesulfonate (PFDoS)	79780-39-5	2.000	<2.000	ng/L	
Perfluoro-1-nonanesulfonate (PFNS)	68259-12-1	1.000	<1.000	ng/L	
Perfluoro-3-6,dioxaheptanoic acid (NFDHA)	151772-58-6	1.000	<1.000	ng/L	
Perfluoro-4-oxapentanoic acid (PFMPA)	377-73-1	1.000	<1.000	ng/L	
Perfluoro-5-oxahexanoic acid (PFMBA)	863090-89-5	1.000	<1.000	ng/L	
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	0.5000	<0.5000	ng/L	
Perfluorobutanoic Acid (PFBA)	375-22-4	2.000	<2.000	ng/L	
Perfluorodecanoic Acid (PFDA)	335-76-2	1.000	<1.000	ng/L	
Perfluorododecanoic Acid (PFDoA)	307-55-1	0.5000	<0.5000	ng/L	
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	0.5000	<0.5000	ng/L	
Perfluoroheptanoic Acid (PFHpA)	375-85-9	1.000	<1.000	ng/L	
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	1.000	<1.000	ng/L	

Client: Suffolk County Dept of Health Services	Client ID: Carmans River Surface Water PO#0000075397
Date (Time) Collected: 05/20/2024 09:00	Sample ID: FB-110 240520 Field Blank
Date (Time) Received: 05/24/2024 11:35	Laboratory ID: 4052414-01
Matrix: Non-Potable Water	ELAP: #11693

Parameter	CAS No.	LOQ	Result	Units	Flag
Perfluorohexanoic Acid (PFHxA)	307-24-4	1.000	<1.000	ng/L	
Perfluorononanoic Acid (PFNA)	375-95-1	0.5000	<0.5000	ng/L	
Perfluorooctanesulfonamide (FOSA)	754-91-6	0.5000	<0.5000	ng/L	
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	0.2000	<0.2000	ng/L	
Perfluorooctanoic Acid (PFOA)	335-67-1	2.000	<2.000	ng/L	
Perfluoropentanesulfonic Acid (PFPeS)	2706-91-4	0.5000	<0.5000	ng/L	
Perfluoropentanoic Acid (PFPeA)	2706-90-3	1.000	<1.000	ng/L	
Perfluorotetradecanoic Acid (PFTeA)	376-06-7	1.000	<1.000	ng/L	
Perfluorotridecanoic Acid (PFTriA)	72629-94-8	1.000	<1.000	ng/L	
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	0.5000	<0.5000	ng/L	

Surrogate	CAS No.	% Recovery	Rec. Limits	Flag
2-(N-ethyl-d5-perfluoro-1-octanesulfonamido)		84	50-150	
2-(N-methyl-d3-perfluoro-1-octanesulfonamido)		79	50-150	
2,3,3,3-Tetrafluoro-2-(13C3) propanoic acid	13252-13-6	104	50-150	
N-ethyl-d5-perfluoro-1-octanesulfonamide	936109-40-9	82	50-150	
N-ethyl-d5-perfluoro-1-octanesulfonamidoacetic acid	2991506	124	50-150	
N-methyl-d3-perfluoro-1-octanesulfonamide		75	50-150	
N-methyl-d3-perfluoro-1-octanesulfonamidoacetic acid		172	50-150	4.E
Perfluoro-1-(13C8)octanesulfonamide	M8FOSA	91	50-150	
Perfluoro-n-(1,2,3,4,5,6,7-13C7)undecanoic acid	2058-94-8	101	50-150	
Perfluoro-n-(1,2,3,4,5,6-13C6)decanoic acid	335-76-2	87	50-150	
Perfluoro-n-(1,2,3,4,6-13C5) hexanoic acid	307-24-4	85	50-150	
Perfluoro-n-(1,2,3,4-13C4) heptanoic acid	375-85-9	100	50-150	
Perfluoro-n-(1,2-13C2)dodecanoic acid	307-55-1	81	50-150	
Perfluoro-n-(1,2-13C2)tetradecanoic acid	M2PFTA	75	50-150	
Perfluoro-n-(13C4)butanoic acid	375-22-4	91	50-150	
Perfluoro-n-(13C5)pentanoic acid	2706-90-3	92	50-150	
Perfluoro-n-(13C8)octanoic acid	335-67-1	91	50-150	
Perfluoro-n-(13C9)nonanoic acid	375-95-1	77	50-150	

Client: Suffolk County Dept of Health Services	Client ID: Carmans River Surface Water PO#00000075397
Date (Time) Collected: 05/20/2024 09:00	Sample ID: FB-110 240520 Field Blank
Date (Time) Received: 05/24/2024 11:35	Laboratory ID: 4052414-01
Matrix: Non-Potable Water	ELAP: #11693

Surrogate	CAS No.	% Recovery	Rec. Limits	Flag
Sodium perfluoro-1-(1,2,3-13C3)hexanesulfonate	355-46-4	96	50-150	
Sodium perfluoro-1-(1,2-13C2)decanesulfonate	39108-34-4	125	50-150	
Sodium perfluoro-1-(1,2-13C2)octanesulfonate	27619-97-2	135	50-150	
Sodium perfluoro-1-(13C8)octanesulfonate	1763-23-1	78	50-150	
Sodium perfluoro-1-(2,3,4-13C3)butanesulfonate	375-73-5	93	50-150	
Sodium perfluoro-1-(1,2-13C2)hexanesulfonate	757124-72-4	84	50-150	

Internal Standard	CAS No.	% Recovery	Rec. Limits	Flag
Perfluoro-n-(1,2,3,4,5-13C5)nonanoic acid		140	0-200	
Perfluoro-n-(1,2,3,4-13C4)octanoic acid		137	0-200	
Perfluoro-n-(1,2-13C2)decanoic acid		125	0-200	
Perfluoro-n-(1,2-13C2)hexanoic acid		109	0-200	
Perfluoro-n-(2,3,4-13C3)butanoic acid	375-22-4	100	0-200	
Sodium perfluoro-1-(1,2,3,4-13C4)octanesulfonate	1763-23-1	137	0-200	
Sodium perfluoro-1-hexane(18O2)sulfonate		118	0-200	

Date Prepared: 05/28/2024

Preparation Method: EPA 1633

Date Analyzed: 05/28/2024

Analytical Method: EPA 1633 (Draft)

Client: Suffolk County Dept of Health Services	Client ID: Carmans River Surface Water PO#00000075397
Date (Time) Collected: 05/20/2024 09:30	Sample ID: 001-110-240520 CR008
Date (Time) Received: 05/24/2024 11:35	Laboratory ID: 4052414-02
Matrix: Non-Potable Water	ELAP: #11693

PFCs Analysis

Parameter	CAS No.	LOQ	Result	Units	Flag
11-CESF-3-oxaundecane-1-sulfonate (11CI-PF3OUdS)	763051-92-9	1.000	<1.000	ng/L	
2,3,3,3-Tetrafluoro-2-propanoic acid (HFPO-DA)	13252-13-6	2.000	<2.000	ng/L	4.M
3:3 FTCA	356-02-5	5.000	<5.000	ng/L	
4:2 FTS	757124-72-4	2.000	<2.000	ng/L	
5:3 FTCA	914637-49-3	10.00	<10.00	ng/L	
6:2 FTS	27619-97-2	2.000	<2.000	ng/L	
7:3 FTCA	812-70-4	20.00	<20.00	ng/L	4.K
8:2 FTS	39108-34-4	5.000	<5.000	ng/L	
9-CHDF-3-oxanonane-1-sulfonate (9CI-PF3ONS)	756426-58-1	1.000	<1.000	ng/L	
Dodecafluoro-3H-4,8-dioxanonaate (ADONA)	919005-14-4	1.000	<1.000	ng/L	
N-EtFOSA	4151-50-2	1.000	<1.000	ng/L	
N-EtFOSAA	2991-50-6	1.000	<1.000	ng/L	4.K
N-EtFOSE	1691-99-2	5.000	<5.000	ng/L	
N-MeFOSA	31506-32-8	2.000	<2.000	ng/L	
N-MeFOSAA	2355-31-9	2.000	<2.000	ng/L	
N-MeFOSE	24448-09-7	10.00	<10.00	ng/L	
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	113507-82-7	0.5000	<0.5000	ng/L	
Perfluoro-1-decanesulfonate (PFDS)	335-77-3	1.000	<1.000	ng/L	
Perfluoro-1-dodecanesulfonate (PFDoS)	79780-39-5	2.000	<2.000	ng/L	
Perfluoro-1-nonanesulfonate (PFNS)	68259-12-1	1.000	<1.000	ng/L	
Perfluoro-3-6,dioxaheptanoic acid (NFDHA)	151772-58-6	1.000	<1.000	ng/L	
Perfluoro-4-oxapentanoic acid (PFMPA)	377-73-1	1.000	<1.000	ng/L	
Perfluoro-5-oxahexanoic acid (PFMBA)	863090-89-5	1.000	<1.000	ng/L	
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	0.5000	2.660	ng/L	
Perfluorobutanoic Acid (PFBA)	375-22-4	2.000	<2.000	ng/L	
Perfluorodecanoic Acid (PFDA)	335-76-2	1.000	<1.000	ng/L	
Perfluorododecanoic Acid (PFDoA)	307-55-1	0.5000	<0.5000	ng/L	
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	0.5000	<0.5000	ng/L	
Perfluoroheptanoic Acid (PFHpA)	375-85-9	1.000	<1.000	ng/L	
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	1.000	7.120	ng/L	

Client: Suffolk County Dept of Health Services	Client ID: Carmans River Surface Water PO#00000075397
Date (Time) Collected: 05/20/2024 09:30	Sample ID: 001-110-240520 CR008
Date (Time) Received: 05/24/2024 11:35	Laboratory ID: 4052414-02
Matrix: Non-Potable Water	ELAP: #11693

Parameter	CAS No.	LOQ	Result	Units	Flag
Perfluorohexanoic Acid (PFHxA)	307-24-4	1.000	7.880	ng/L	
Perfluorononanoic Acid (PFNA)	375-95-1	0.5000	3.480	ng/L	
Perfluorooctanesulfonamide (FOSA)	754-91-6	0.5000	<0.5000	ng/L	
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	2.000	57.60	ng/L	
Perfluorooctanoic Acid (PFOA)	335-67-1	2.000	57.80	ng/L	
Perfluoropentanesulfonic Acid (PFPeS)	2706-91-4	0.5000	<0.5000	ng/L	
Perfluoropentanoic Acid (PFPeA)	2706-90-3	1.000	7.900	ng/L	
Perfluorotetradecanoic Acid (PFTeA)	376-06-7	1.000	<1.000	ng/L	
Perfluorotridecanoic Acid (PFTriA)	72629-94-8	1.000	<1.000	ng/L	
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	0.5000	<0.5000	ng/L	

Surrogate	CAS No.	% Recovery	Rec. Limits	Flag
2-(N-ethyl-d5-perfluoro-1-octanesulfonamido)		53	50-150	
2-(N-methyl-d3-perfluoro-1-octanesulfonamido)		52	50-150	
2,3,3,3-Tetrafluoro-2-(13C3) propanoic acid	13252-13-6	100	50-150	
N-ethyl-d5-perfluoro-1-octanesulfonamide	936109-40-9	53	50-150	
N-ethyl-d5-perfluoro-1-octanesulfonamidoacetic acid	2991506	67	50-150	
N-methyl-d3-perfluoro-1-octanesulfonamide		61	50-150	
N-methyl-d3-perfluoro-1-octanesulfonamidoacetic acid		96	50-150	
Perfluoro-1-(13C8)octanesulfonamide	M8FOSA	59	50-150	
Perfluoro-n-(1,2,3,4,5,6,7-13C7)undecanoic acid	2058-94-8	58	50-150	
Perfluoro-n-(1,2,3,4,5,6-13C6)decanoic acid	335-76-2	53	50-150	
Perfluoro-n-(1,2,3,4,6-13C5) hexanoic acid	307-24-4	85	50-150	
Perfluoro-n-(1,2,3,4-13C4) heptanoic acid	375-85-9	90	50-150	
Perfluoro-n-(1,2-13C2)dodecanoic acid	307-55-1	51	50-150	
Perfluoro-n-(1,2-13C2)tetradecanoic acid	M2PFTA	34	50-150	4.D
Perfluoro-n-(13C4)butanoic acid	375-22-4	90	50-150	
Perfluoro-n-(13C5)pentanoic acid	2706-90-3	92	50-150	
Perfluoro-n-(13C8)octanoic acid	335-67-1	68	50-150	
Perfluoro-n-(13C9)nonanoic acid	375-95-1	58	50-150	

Client: Suffolk County Dept of Health Services	Client ID: Carmans River Surface Water PO#00000075397
Date (Time) Collected: 05/20/2024 09:30	Sample ID: 001-110-240520 CR008
Date (Time) Received: 05/24/2024 11:35	Laboratory ID: 4052414-02
Matrix: Non-Potable Water	ELAP: #11693

Surrogate	CAS No.	% Recovery	Rec. Limits	Flag
Sodium perfluoro-1-(1,2,3-13C3)hexanesulfonate	355-46-4	83	50-150	
Sodium perfluoro-1-(1,2-13C2)decanesulfonate	39108-34-4	82	50-150	
Sodium perfluoro-1-(1,2-13C2)octanesulfonate	27619-97-2	115	50-150	
Sodium perfluoro-1-(13C8)octanesulfonate	1763-23-1	54	50-150	
Sodium perfluoro-1-(2,3,4-13C3)butanesulfonate	375-73-5	103	50-150	
Sodium perfluoro-1-(1,2-13C2)hexanesulfonate	757124-72-4	99	50-150	

Internal Standard	CAS No.	% Recovery	Rec. Limits	Flag
Perfluoro-n-(1,2,3,4,5-13C5)nonanoic acid		134	0-200	
Perfluoro-n-(1,2,3,4-13C4)octanoic acid		146	0-200	
Perfluoro-n-(1,2-13C2)decanoic acid		129	0-200	
Perfluoro-n-(1,2-13C2)hexanoic acid		114	0-200	
Perfluoro-n-(2,3,4-13C3)butanoic acid	375-22-4	101	0-200	
Sodium perfluoro-1-(1,2,3,4-13C4)octanesulfonate	1763-23-1	140	0-200	
Sodium perfluoro-1-hexane(18O2)sulfonate		103	0-200	

Date Prepared: 05/28/2024

Preparation Method: EPA 1633

Date Analyzed: 05/28/2024

Analytical Method: EPA 1633 (Draft)

Client: Suffolk County Dept of Health Services	Client ID: Carmans River Surface Water PO#00000075397
Date (Time) Collected: 05/20/2024 10:30	Sample ID: 002-110-240520 CR001
Date (Time) Received: 05/24/2024 11:35	Laboratory ID: 4052414-03
Matrix: Non-Potable Water	ELAP: #11693

PFCs Analysis

Parameter	CAS No.	LOQ	Result	Units	Flag
11-CESF-3-oxaundecane-1-sulfonate (11CI-PF3OUdS)	763051-92-9	1.000	<1.000	ng/L	
2,3,3,3-Tetrafluoro-2-propanoic acid (HFPO-DA)	13252-13-6	2.000	6.700	ng/L	4.M
3:3 FTCA	356-02-5	5.000	<5.000	ng/L	
4:2 FTS	757124-72-4	2.000	<2.000	ng/L	
5:3 FTCA	914637-49-3	10.00	<10.00	ng/L	
6:2 FTS	27619-97-2	2.000	<2.000	ng/L	
7:3 FTCA	812-70-4	20.00	<20.00	ng/L	4.K
8:2 FTS	39108-34-4	5.000	<5.000	ng/L	
9-CHDF-3-oxanonane-1-sulfonate (9CI-PF3ONS)	756426-58-1	1.000	<1.000	ng/L	
Dodecafluoro-3H-4,8-dioxanonaate (ADONA)	919005-14-4	1.000	<1.000	ng/L	
N-EtFOSA	4151-50-2	1.000	<1.000	ng/L	
N-EtFOSAA	2991-50-6	1.000	<1.000	ng/L	4.K
N-EtFOSE	1691-99-2	5.000	<5.000	ng/L	
N-MeFOSA	31506-32-8	2.000	<2.000	ng/L	
N-MeFOSAA	2355-31-9	2.000	<2.000	ng/L	
N-MeFOSE	24448-09-7	10.00	<10.00	ng/L	
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	113507-82-7	0.5000	<0.5000	ng/L	
Perfluoro-1-decanesulfonate (PFDS)	335-77-3	1.000	<1.000	ng/L	
Perfluoro-1-dodecanesulfonate (PFDoS)	79780-39-5	2.000	<2.000	ng/L	
Perfluoro-1-nonanesulfonate (PFNS)	68259-12-1	1.000	<1.000	ng/L	
Perfluoro-3-6,dioxaheptanoic acid (NFDHA)	151772-58-6	1.000	<1.000	ng/L	
Perfluoro-4-oxapentanoic acid (PFMPA)	377-73-1	1.000	<1.000	ng/L	
Perfluoro-5-oxahexanoic acid (PFMBA)	863090-89-5	1.000	<1.000	ng/L	
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	0.5000	2.760	ng/L	
Perfluorobutanoic Acid (PFBA)	375-22-4	2.000	<2.000	ng/L	
Perfluorodecanoic Acid (PFDA)	335-76-2	1.000	<1.000	ng/L	
Perfluorododecanoic Acid (PFDoA)	307-55-1	0.5000	<0.5000	ng/L	
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	0.5000	<0.5000	ng/L	
Perfluoroheptanoic Acid (PFHpA)	375-85-9	1.000	<1.000	ng/L	
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	1.000	8.600	ng/L	

Client: Suffolk County Dept of Health Services	Client ID: Carmans River Surface Water PO#00000075397
Date (Time) Collected: 05/20/2024 10:30	Sample ID: 002-110-240520 CR001
Date (Time) Received: 05/24/2024 11:35	Laboratory ID: 4052414-03
Matrix: Non-Potable Water	ELAP: #11693

Parameter	CAS No.	LOQ	Result	Units	Flag
Perfluorohexanoic Acid (PFHxA)	307-24-4	1.000	<1.000	ng/L	
Perfluorononanoic Acid (PFNA)	375-95-1	0.5000	5.840	ng/L	
Perfluorooctanesulfonamide (FOSA)	754-91-6	0.5000	<0.5000	ng/L	
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	2.000	15.88	ng/L	
Perfluorooctanoic Acid (PFOA)	335-67-1	2.000	5.560	ng/L	
Perfluoropentanesulfonic Acid (PFPeS)	2706-91-4	0.5000	<0.5000	ng/L	
Perfluoropentanoic Acid (PFPeA)	2706-90-3	1.000	7.440	ng/L	
Perfluorotetradecanoic Acid (PFTeA)	376-06-7	1.000	<1.000	ng/L	
Perfluorotridecanoic Acid (PFTriA)	72629-94-8	1.000	<1.000	ng/L	
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	0.5000	<0.5000	ng/L	

Surrogate	CAS No.	% Recovery	Rec. Limits	Flag
2-(N-ethyl-d5-perfluoro-1-octanesulfonamido)		56	50-150	
2-(N-methyl-d3-perfluoro-1-octanesulfonamido)		57	50-150	
2,3,3,3-Tetrafluoro-2-(13C3) propanoic acid	13252-13-6	122	50-150	
N-ethyl-d5-perfluoro-1-octanesulfonamide	936109-40-9	71	50-150	
N-ethyl-d5-perfluoro-1-octanesulfonamidoacetic acid	2991506	73	50-150	
N-methyl-d3-perfluoro-1-octanesulfonamide		81	50-150	
N-methyl-d3-perfluoro-1-octanesulfonamidoacetic acid		96	50-150	
Perfluoro-1-(13C8)octanesulfonamide	M8FOSA	69	50-150	
Perfluoro-n-(1,2,3,4,5,6,7-13C7)undecanoic acid	2058-94-8	60	50-150	
Perfluoro-n-(1,2,3,4,5,6-13C6)decanoic acid	335-76-2	60	50-150	
Perfluoro-n-(1,2,3,4,6-13C5) hexanoic acid	307-24-4	120	50-150	
Perfluoro-n-(1,2,3,4-13C4) heptanoic acid	375-85-9	102	50-150	
Perfluoro-n-(1,2-13C2)dodecanoic acid	307-55-1	49	50-150	4.D
Perfluoro-n-(1,2-13C2)tetradecanoic acid	M2PFTA	11	50-150	4.D
Perfluoro-n-(13C4)butanoic acid	375-22-4	128	50-150	
Perfluoro-n-(13C5)pentanoic acid	2706-90-3	123	50-150	
Perfluoro-n-(13C8)octanoic acid	335-67-1	103	50-150	
Perfluoro-n-(13C9)nonanoic acid	375-95-1	71	50-150	

Client: Suffolk County Dept of Health Services	Client ID: Carmans River Surface Water PO#00000075397
Date (Time) Collected: 05/20/2024 10:30	Sample ID: 002-110-240520 CR001
Date (Time) Received: 05/24/2024 11:35	Laboratory ID: 4052414-03
Matrix: Non-Potable Water	ELAP: #11693

Surrogate	CAS No.	% Recovery	Rec. Limits	Flag
Sodium perfluoro-1-(1,2,3-13C3)hexanesulfonate	355-46-4	95	50-150	
Sodium perfluoro-1-(1,2-13C2)decanesulfonate	39108-34-4	76	50-150	
Sodium perfluoro-1-(1,2-13C2)octanesulfonate	27619-97-2	109	50-150	
Sodium perfluoro-1-(13C8)octanesulfonate	1763-23-1	56	50-150	
Sodium perfluoro-1-(2,3,4-13C3)butanesulfonate	375-73-5	116	50-150	
Sodium perfluoro-1-(1,2-13C2)hexanesulfonate	757124-72-4	131	50-150	

Internal Standard	CAS No.	% Recovery	Rec. Limits	Flag
Perfluoro-n-(1,2,3,4,5-13C5)nonanoic acid		110	0-200	
Perfluoro-n-(1,2,3,4-13C4)octanoic acid		98	0-200	
Perfluoro-n-(1,2-13C2)decanoic acid		104	0-200	
Perfluoro-n-(1,2-13C2)hexanoic acid		103	0-200	
Perfluoro-n-(2,3,4-13C3)butanoic acid	375-22-4	89	0-200	
Sodium perfluoro-1-(1,2,3,4-13C4)octanesulfonate	1763-23-1	118	0-200	
Sodium perfluoro-1-hexane(18O2)sulfonate		104	0-200	

Date Prepared: 05/28/2024

Preparation Method: EPA 1633

Date Analyzed: 05/29/2024

Analytical Method: EPA 1633 (Draft)

Client: Suffolk County Dept of Health Services	Client ID: Carmans River Surface Water PO#00000075397
Date (Time) Collected: 05/20/2024 11:45	Sample ID: 003-110-240520 CR-015
Date (Time) Received: 05/24/2024 11:35	Laboratory ID: 4052414-04
Matrix: Non-Potable Water	ELAP: #11693

PFCs Analysis

Parameter	CAS No.	LOQ	Result	Units	Flag
11-CESF-3-oxaundecane-1-sulfonate (11CI-PF3OUdS)	763051-92-9	1.000	<1.000	ng/L	
2,3,3,3-Tetrafluoro-2-propanoic acid (HFPO-DA)	13252-13-6	2.000	<2.000	ng/L	4.M
3:3 FTCA	356-02-5	5.000	<5.000	ng/L	
4:2 FTS	757124-72-4	2.000	<2.000	ng/L	
5:3 FTCA	914637-49-3	10.00	<10.00	ng/L	
6:2 FTS	27619-97-2	2.000	<2.000	ng/L	
7:3 FTCA	812-70-4	20.00	<20.00	ng/L	4.K
8:2 FTS	39108-34-4	5.000	<5.000	ng/L	
9-CHDF-3-oxanonane-1-sulfonate (9CI-PF3ONS)	756426-58-1	1.000	<1.000	ng/L	
Dodecafluoro-3H-4,8-dioxanonaate (ADONA)	919005-14-4	1.000	<1.000	ng/L	
N-EtFOSA	4151-50-2	1.000	<1.000	ng/L	
N-EtFOSAA	2991-50-6	1.000	<1.000	ng/L	4.K
N-EtFOSE	1691-99-2	5.000	<5.000	ng/L	
N-MeFOSA	31506-32-8	2.000	<2.000	ng/L	
N-MeFOSAA	2355-31-9	2.000	<2.000	ng/L	
N-MeFOSE	24448-09-7	10.00	<10.00	ng/L	
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	113507-82-7	0.5000	<0.5000	ng/L	
Perfluoro-1-decanesulfonate (PFDS)	335-77-3	1.000	<1.000	ng/L	
Perfluoro-1-dodecanesulfonate (PFDoS)	79780-39-5	2.000	<2.000	ng/L	
Perfluoro-1-nonanesulfonate (PFNS)	68259-12-1	1.000	<1.000	ng/L	
Perfluoro-3-6,dioxaheptanoic acid (NFDHA)	151772-58-6	1.000	<1.000	ng/L	
Perfluoro-4-oxapentanoic acid (PFMPA)	377-73-1	1.000	<1.000	ng/L	
Perfluoro-5-oxahexanoic acid (PFMBA)	863090-89-5	1.000	<1.000	ng/L	
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	0.5000	2.150	ng/L	
Perfluorobutanoic Acid (PFBA)	375-22-4	2.000	<2.000	ng/L	
Perfluorodecanoic Acid (PFDA)	335-76-2	1.000	<1.000	ng/L	
Perfluorododecanoic Acid (PFDoA)	307-55-1	0.5000	<0.5000	ng/L	
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	0.5000	<0.5000	ng/L	
Perfluoroheptanoic Acid (PFHpA)	375-85-9	1.000	<1.000	ng/L	
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	1.000	10.48	ng/L	

Client: Suffolk County Dept of Health Services	Client ID: Carmans River Surface Water PO#00000075397
Date (Time) Collected: 05/20/2024 11:45	Sample ID: 003-110-240520 CR-015
Date (Time) Received: 05/24/2024 11:35	Laboratory ID: 4052414-04
Matrix: Non-Potable Water	ELAP: #11693

Parameter	CAS No.	LOQ	Result	Units	Flag
Perfluorohexanoic Acid (PFHxA)	307-24-4	1.000	5.767	ng/L	
Perfluorononanoic Acid (PFNA)	375-95-1	0.5000	6.100	ng/L	
Perfluorooctanesulfonamide (FOSA)	754-91-6	0.5000	<0.5000	ng/L	
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	2.000	17.28	ng/L	
Perfluorooctanoic Acid (PFOA)	335-67-1	2.000	6.567	ng/L	
Perfluoropentanesulfonic Acid (PFPeS)	2706-91-4	0.5000	<0.5000	ng/L	
Perfluoropentanoic Acid (PFPeA)	2706-90-3	1.000	7.150	ng/L	
Perfluorotetradecanoic Acid (PFTeA)	376-06-7	1.000	<1.000	ng/L	
Perfluorotridecanoic Acid (PFTriA)	72629-94-8	1.000	<1.000	ng/L	
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	0.5000	<0.5000	ng/L	

Surrogate	CAS No.	% Recovery	Rec. Limits	Flag
2-(N-ethyl-d5-perfluoro-1-octanesulfonamido)		82	50-150	
2-(N-methyl-d3-perfluoro-1-octanesulfonamido)		79	50-150	
2,3,3,3-Tetrafluoro-2-(13C3) propanoic acid	13252-13-6	170	50-150	4.E
N-ethyl-d5-perfluoro-1-octanesulfonamide	936109-40-9	83	50-150	
N-ethyl-d5-perfluoro-1-octanesulfonamidoacetic acid	2991506	139	50-150	
N-methyl-d3-perfluoro-1-octanesulfonamide		79	50-150	
N-methyl-d3-perfluoro-1-octanesulfonamidoacetic acid		187	50-150	4.E
Perfluoro-1-(13C8)octanesulfonamide	M8FOSA	95	50-150	
Perfluoro-n-(1,2,3,4,5,6,7-13C7)undecanoic acid	2058-94-8	103	50-150	
Perfluoro-n-(1,2,3,4,5,6-13C6)decanoic acid	335-76-2	90	50-150	
Perfluoro-n-(1,2,3,4,6-13C5) hexanoic acid	307-24-4	147	50-150	
Perfluoro-n-(1,2,3,4-13C4) heptanoic acid	375-85-9	141	50-150	
Perfluoro-n-(1,2-13C2)dodecanoic acid	307-55-1	73	50-150	
Perfluoro-n-(1,2-13C2)tetradecanoic acid	M2PFTA	7	50-150	4.D
Perfluoro-n-(13C4)butanoic acid	375-22-4	158	50-150	4.E
Perfluoro-n-(13C5)pentanoic acid	2706-90-3	157	50-150	4.E
Perfluoro-n-(13C8)octanoic acid	335-67-1	103	50-150	
Perfluoro-n-(13C9)nonanoic acid	375-95-1	96	50-150	

Client: Suffolk County Dept of Health Services	Client ID: Carmans River Surface Water PO#00000075397
Date (Time) Collected: 05/20/2024 11:45	Sample ID: 003-110-240520 CR-015
Date (Time) Received: 05/24/2024 11:35	Laboratory ID: 4052414-04
Matrix: Non-Potable Water	ELAP: #11693

Surrogate	CAS No.	% Recovery	Rec. Limits	Flag
Sodium perfluoro-1-(1,2,3-13C3)hexanesulfonate	355-46-4	109	50-150	
Sodium perfluoro-1-(1,2-13C2)decanesulfonate	39108-34-4	121	50-150	
Sodium perfluoro-1-(1,2-13C2)octanesulfonate	27619-97-2	171	50-150	4.E
Sodium perfluoro-1-(13C8)octanesulfonate	1763-23-1	92	50-150	
Sodium perfluoro-1-(2,3,4-13C3)butanesulfonate	375-73-5	146	50-150	
Sodium perfluoro-1-(1,2-13C2)hexanesulfonate	757124-72-4	168	50-150	4.E

Internal Standard	CAS No.	% Recovery	Rec. Limits	Flag
Perfluoro-n-(1,2,3,4,5-13C5)nonanoic acid		135	0-200	
Perfluoro-n-(1,2,3,4-13C4)octanoic acid		148	0-200	
Perfluoro-n-(1,2-13C2)decanoic acid		128	0-200	
Perfluoro-n-(1,2-13C2)hexanoic acid		112	0-200	
Perfluoro-n-(2,3,4-13C3)butanoic acid	375-22-4	87	0-200	
Sodium perfluoro-1-(1,2,3,4-13C4)octanesulfonate	1763-23-1	128	0-200	
Sodium perfluoro-1-hexane(18O2)sulfonate		118	0-200	

Date Prepared: 05/28/2024

Preparation Method: EPA 1633

Date Analyzed: 05/29/2024

Analytical Method: EPA 1633 (Draft)

Client: Suffolk County Dept of Health Services	Client ID: Carmans River Surface Water PO#00000075397
Date (Time) Collected: 05/20/2024 12:30	Sample ID: 004-110-240520 CR-002
Date (Time) Received: 05/24/2024 11:35	Laboratory ID: 4052414-05
Matrix: Non-Potable Water	ELAP: #11693

PFCs Analysis

Parameter	CAS No.	LOQ	Result	Units	Flag
11-CESF-3-oxaundecane-1-sulfonate (11CI-PF3OUdS)	763051-92-9	1.000	<1.000	ng/L	
2,3,3,3-Tetrafluoro-2-propanoic acid (HFPO-DA)	13252-13-6	2.000	<2.000	ng/L	4.M
3:3 FTCA	356-02-5	5.000	<5.000	ng/L	
4:2 FTS	757124-72-4	2.000	<2.000	ng/L	
5:3 FTCA	914637-49-3	10.00	<10.00	ng/L	
6:2 FTS	27619-97-2	2.000	<2.000	ng/L	
7:3 FTCA	812-70-4	20.00	<20.00	ng/L	4.K
8:2 FTS	39108-34-4	5.000	<5.000	ng/L	
9-CHDF-3-oxanonane-1-sulfonate (9CI-PF3ONS)	756426-58-1	1.000	<1.000	ng/L	
Dodecafluoro-3H-4,8-dioxanonaate (ADONA)	919005-14-4	1.000	<1.000	ng/L	
N-EtFOSA	4151-50-2	1.000	<1.000	ng/L	
N-EtFOSAA	2991-50-6	1.000	<1.000	ng/L	4.K
N-EtFOSE	1691-99-2	5.000	<5.000	ng/L	
N-MeFOSA	31506-32-8	2.000	<2.000	ng/L	
N-MeFOSAA	2355-31-9	2.000	<2.000	ng/L	
N-MeFOSE	24448-09-7	10.00	<10.00	ng/L	
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	113507-82-7	0.5000	<0.5000	ng/L	
Perfluoro-1-decanesulfonate (PFDS)	335-77-3	1.000	<1.000	ng/L	
Perfluoro-1-dodecanesulfonate (PFDoS)	79780-39-5	2.000	<2.000	ng/L	
Perfluoro-1-nonanesulfonate (PFNS)	68259-12-1	1.000	<1.000	ng/L	
Perfluoro-3-6,dioxaheptanoic acid (NFDHA)	151772-58-6	1.000	<1.000	ng/L	
Perfluoro-4-oxapentanoic acid (PFMPA)	377-73-1	1.000	<1.000	ng/L	
Perfluoro-5-oxahexanoic acid (PFMBA)	863090-89-5	1.000	<1.000	ng/L	
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	0.5000	<0.5000	ng/L	
Perfluorobutanoic Acid (PFBA)	375-22-4	2.000	<2.000	ng/L	
Perfluorodecanoic Acid (PFDA)	335-76-2	1.000	<1.000	ng/L	
Perfluorododecanoic Acid (PFDoA)	307-55-1	0.5000	<0.5000	ng/L	
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	0.5000	<0.5000	ng/L	
Perfluoroheptanoic Acid (PFHpA)	375-85-9	1.000	<1.000	ng/L	
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	1.000	8.700	ng/L	

Client: Suffolk County Dept of Health Services	Client ID: Carmans River Surface Water PO#00000075397
Date (Time) Collected: 05/20/2024 12:30	Sample ID: 004-110-240520 CR-002
Date (Time) Received: 05/24/2024 11:35	Laboratory ID: 4052414-05
Matrix: Non-Potable Water	ELAP: #11693

Parameter	CAS No.	LOQ	Result	Units	Flag
Perfluorohexanoic Acid (PFHxA)	307-24-4	1.000	7.240	ng/L	
Perfluorononanoic Acid (PFNA)	375-95-1	0.5000	5.820	ng/L	
Perfluorooctanesulfonamide (FOSA)	754-91-6	0.5000	<0.5000	ng/L	
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	2.000	23.22	ng/L	
Perfluorooctanoic Acid (PFOA)	335-67-1	2.000	7.260	ng/L	
Perfluoropentanesulfonic Acid (PFPeS)	2706-91-4	0.5000	<0.5000	ng/L	
Perfluoropentanoic Acid (PFPeA)	2706-90-3	1.000	9.160	ng/L	
Perfluorotetradecanoic Acid (PFTeA)	376-06-7	1.000	<1.000	ng/L	
Perfluorotridecanoic Acid (PFTriA)	72629-94-8	1.000	<1.000	ng/L	
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	0.5000	<0.5000	ng/L	

Surrogate	CAS No.	% Recovery	Rec. Limits	Flag
2-(N-ethyl-d5-perfluoro-1-octanesulfonamido)		30	50-150	4.D
2-(N-methyl-d3-perfluoro-1-octanesulfonamido)		41	50-150	4.D
2,3,3,3-Tetrafluoro-2-(13C3) propanoic acid	13252-13-6	159	50-150	4.E
N-ethyl-d5-perfluoro-1-octanesulfonamide	936109-40-9	52	50-150	
N-ethyl-d5-perfluoro-1-octanesulfonamidoacetic acid	2991506	69	50-150	
N-methyl-d3-perfluoro-1-octanesulfonamide		79	50-150	
N-methyl-d3-perfluoro-1-octanesulfonamidoacetic acid		103	50-150	
Perfluoro-1-(13C8)octanesulfonamide	M8FOSA	80	50-150	
Perfluoro-n-(1,2,3,4,5,6,7-13C7)undecanoic acid	2058-94-8	66	50-150	
Perfluoro-n-(1,2,3,4,5,6-13C6)decanoic acid	335-76-2	71	50-150	
Perfluoro-n-(1,2,3,4,6-13C5) hexanoic acid	307-24-4	137	50-150	
Perfluoro-n-(1,2,3,4-13C4) heptanoic acid	375-85-9	138	50-150	
Perfluoro-n-(1,2-13C2)dodecanoic acid	307-55-1	32	50-150	4.D
Perfluoro-n-(1,2-13C2)tetradecanoic acid	M2PFTA	0.1	50-150	4.D
Perfluoro-n-(13C4)butanoic acid	375-22-4	151	50-150	4.E
Perfluoro-n-(13C5)pentanoic acid	2706-90-3	149	50-150	
Perfluoro-n-(13C8)octanoic acid	335-67-1	93	50-150	
Perfluoro-n-(13C9)nonanoic acid	375-95-1	72	50-150	

Client: Suffolk County Dept of Health Services	Client ID: Carmans River Surface Water PO#00000075397
Date (Time) Collected: 05/20/2024 12:30	Sample ID: 004-110-240520 CR-002
Date (Time) Received: 05/24/2024 11:35	Laboratory ID: 4052414-05
Matrix: Non-Potable Water	ELAP: #11693

Surrogate	CAS No.	% Recovery	Rec. Limits	Flag
Sodium perfluoro-1-(1,2,3-13C3)hexanesulfonate	355-46-4	102	50-150	
Sodium perfluoro-1-(1,2-13C2)decanesulfonate	39108-34-4	86	50-150	
Sodium perfluoro-1-(1,2-13C2)octanesulfonate	27619-97-2	112	50-150	
Sodium perfluoro-1-(13C8)octanesulfonate	1763-23-1	61	50-150	
Sodium perfluoro-1-(2,3,4-13C3)butanesulfonate	375-73-5	137	50-150	
Sodium perfluoro-1-(1,2-13C2)hexanesulfonate	757124-72-4	150	50-150	

Internal Standard	CAS No.	% Recovery	Rec. Limits	Flag
Perfluoro-n-(1,2,3,4,5-13C5)nonanoic acid		125	0-200	
Perfluoro-n-(1,2,3,4-13C4)octanoic acid		126	0-200	
Perfluoro-n-(1,2-13C2)decanoic acid		108	0-200	
Perfluoro-n-(1,2-13C2)hexanoic acid		104	0-200	
Perfluoro-n-(2,3,4-13C3)butanoic acid	375-22-4	79	0-200	
Sodium perfluoro-1-(1,2,3,4-13C4)octanesulfonate	1763-23-1	131	0-200	
Sodium perfluoro-1-hexane(18O2)sulfonate		113	0-200	

Date Prepared: 05/28/2024

Preparation Method: EPA 1633

Date Analyzed: 05/29/2024

Analytical Method: EPA 1633 (Draft)

Data Qualifiers Key Reference:

- 4.D Surrogate recovery has failed low.
 4.E Surrogate recovery has failed high.
 4.K Continuing Calibration Verification (CCV) quality control levels failed high.
 4.M LCS recovery was above QC acceptance limit.
 MDL Minimum Detection Limit
 LOQ Limit of Quantitation
 H Holding Time Exceeded



"TOMORROW'S ANALYTICAL SOLUTIONS TODAY"

CHAIN OF CUSTODY / REQUEST FOR ANALYSIS DOCUMENT

CLIENT NAME/ADDRESS Suffolk County Dept of Health Services 360 Yaphank Ave Suite 1C Yaphank, New York 11980	CONTACT: Ralph Milito	SAMPLER (SIGNATURE) <i>Ralph Milito</i>	DATE	TIME	SAMPLE(S) SEALED <input checked="" type="checkbox"/> YES / <input type="checkbox"/> NO
	PHONE: 631-252-9377		5/20/2024	12:00PM	
	FAX: 631-852-5787	SAMPLER NAME (PRINT) Justin Andrews	DATE	TIME	CORRECT CONTAINER(S) <input checked="" type="checkbox"/> YES / <input type="checkbox"/> NO
			5/20/2024	12:00PM	

4052414

PROJECT LOCATION: Carmans River Surface Water Sampling

SAMPLES RECEIVED AT
2.4°C

TERMS & CONDITIONS: Accounts are payable in full within thirty days, outstanding balances accrue service charges of 1.5% per month. Tending of samples to LIAL for analytical testing constitutes agreement by buyer/sampler to LIAL's Standard terms

LABORATORY ID # <small>For Laboratory Use Only</small>	MATRIX	TYPE	PH	RES. CHLORINE	PRES.	DATE	TIME	SAMPLE # LOCATION	ANALYSIS REQUIRED Method 1633	# OF CONTAINERS
1.	SW	G			7	5/20/2024	9:00	FB-110-240520 Field Blank	X	2
2.	SW	G	7.12		7	5/20/2024	9:30	001-110-240520 CR008	X	2
3.	SW	G	7.12		7	5/20/2024	10:30	002-110-240520 CR001	X	2
4.	SW	G	7.01		7	5/20/2024	11:45	003-110-240520 CR-015	X	2
5.	SW	G	7.30		7	5/20/2024	12:30	004-110-240520 CR-002	X	2
6.										
7.										
8.										
9.										
10.										
11.										
12.										
13.										
14.										

MATRIX: S=SOIL; SL=SLUDGE; DW=DRINKING WATER; A=AIR; W=WIPE; PC=PAINT CHIPS; BM= BULK MATERIAL, O=OIL, WW=WASTE WATER TYPE: G=GRAB; C=COMPOSITE; SS=SPLIT SPOON PRES: (1) ICE; (2) HCL; (3) H ₂ SO ₄ ; (4) NAOH; (5) NA ₂ S ₃ O ₃ ; (6) HNO ₃ ; (7) OTHER	TURNAROUND REQUIRED: <input checked="" type="checkbox"/> NORMAL <input type="checkbox"/> STAT BY / /	COMMENTS / INSTRUCTIONS Email results to ralph.milito@suffolkcountyny.gov P.O. # 0000075397
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RELINQUISHED BY (SIGNATURE) <i>Justin Andrews</i>	DATE 5/24/2024 TIME 12:00PM	PRINTED NAME Justin Andrews	RECEIVED BY (SIGNATURE) <i>Ebon Lawson</i>	DATE 5.24.24 TIME 10:39	PRINTED NAME Ebon Lawson
RELINQUISHED BY (SIGNATURE)	DATE TIME	PRINTED NAME	RECEIVED BY SAMPLE CUSTODIAN <i>[Signature]</i>	DATE 5.24.24 TIME 1:40	PRINTED NAME R.R.