ALS Environmental
ALS Group USA, Corp
1317 South 13th Avenue
Kelso, WA 98626
T : +1 360 577 7222
F : +1 360 636 1068
www.alsglobal.com

June 12, 2026

Analytical Report for Service Request No: K2605119

Dereck Ciecierski
ALS Environmental - Middletown
301 Fulling Mill Road
Middletown, PA 17057

RE: 40-3458226

Dear Dereck,

Enclosed are the results of the sample(s) submitted to our laboratory May 20, 2026
For your reference, these analyses have been assigned our service request number **K2605119.**

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. All results are intended to be considered in their entirety, and ALS Group USA Corp. dba ALS Environmental (ALS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please contact me if you have any questions. My extension is 3301. You may also contact me via email at Naomi.Pedersen@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Naomi Pedersen
Project Manager

ALS Environmental
ALS Group USA, Corp
1317 South 13th Avenue
Kelso, WA 98626
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F : +1 360 636 1068
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Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LOD	Limit of Detection
LOQ	Limit of Quantitation
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Inorganic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated value.
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
i	The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
X	See case narrative.
Q	See case narrative. One or more quality control criteria was outside the limits.
H	The holding time for this test is immediately following sample collection. The samples were analyzed as soon as possible after receipt by the laboratory.

Metals Data Qualifiers

#	The control limit criteria is not applicable.
J	The result is an estimated value.
E	The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
M	The duplicate injection precision was not met.
N	The Matrix Spike sample recovery is not within control limits. See case narrative.
S	The reported value was determined by the Method of Standard Additions (MSA).
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
W	The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
i	The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
X	See case narrative.
+	The correlation coefficient for the MSA is less than 0.995.
Q	See case narrative. One or more quality control criteria was outside the limits.

Organic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
A	A tentatively identified compound, a suspected aldol-condensation product.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
C	The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
D	The reported result is from a dilution.
E	The result is an estimated value.
J	The result is an estimated value.
N	The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
P	The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
i	The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
X	See case narrative.
Q	See case narrative. One or more quality control criteria was outside the limits.

Additional Petroleum Hydrocarbon Specific Qualifiers

F	The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
L	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
H	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
O	The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
Y	The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
Z	The chromatographic fingerprint does not resemble a petroleum product.

ALS Group USA Corp. dba ALS Environmental (ALS) - Kelso
State Certifications, Accreditations, and Licenses

Agency	Website	Number
Alaska DEC	https://dec.alaska.gov/spar/csp/lab-approval/	17-004
Arizona DHS	https://www.azdhs.gov/preparedness/state-laboratory/lab-licensure-certification/index.php	AZ0339
Arkansas DEQ	https://www.adeq.state.ar.us/techsvs/lab_cert/	88-00637
California WB (ELAP)	https://www.waterboards.ca.gov/drinking_water/certlic/labs/index.html	2795
DOD ELAP	https://www.denix.osd.mil/edqw/accreditation/accreditedlabs/	65188
Florida DOH	https://www.floridahealth.gov/licensing-regulations/regulated-facilities/environmental-laboratories/	E87412
ISO 17025	https://www.pjlabs.com/	65188
Louisiana DEQ	https://www.deq.louisiana.gov/page/la-lab-accreditation	03016
Maine DHHS	https://www.maine.gov/dhhs/mecdc/services/business-services/laboratory-accreditation	WA01276
Minnesota DOH	https://www.health.state.mn.us/communities/environment/mnelap	053-999-457
Nevada DEP	https://ndep.nv.gov/water/lab-certification	WA01276
New Jersey DEP	https://dep.nj.gov/dsr/oqa/certified-laboratories/	WA005
New York DOH	https://www.wadsworth.org/regulatory/elap	12060
North Carolina DEQ	https://www.deq.nc.gov/about/divisions/water-resources/water-sciences/chemistry-laboratory/laboratory-certification-branch/non-field-lab-certification	WA01276
Ohio EPA	https://epa.ohio.gov/divisions-and-offices/drinking-and-ground-waters	87776
Oregon DEQ (NELAP)	https://www.oregon.gov/oha/PH/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	WA100010
South Carolina DES	https://des.sc.gov/permits-regulations/laws-regulations-regulatory-updates/environmental-regulations/environmental-laboratory-certification	61002
Texas CEQ	https://www.tceq.texas.gov/agency/qa/env_lab_accreditation.html	T104704427
Washington DOE	https://ecology.wa.gov/regulations-permits/permits-certifications/laboratory-accreditation	C544
ALS Solutions	https://solutions.alsglobal.com/	NA

Analyses were performed in accordance with our laboratory's NELAP-approved Quality Assurance Program. A complete listing of NELAP and other certified analytes is available in ALS Solutions. For initial access to ALS Solutions, please contact your ALS Project Manager. If samples are submitted for compliance purposes, please consult the applicable certification and/or accreditation body's website. States highlighted above require that the specific method/analyte be included on the state certification when used for compliance purposes and when that method/analyte is offered by the state.

Case Narrative

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

Client: ALS Environmental - Middletown
Project:
Sample Matrix: Sludge, Solid, Ground Water

Service Request: K2605119
Date Received: 05/20/2026

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier level II requested by the client.

Sample Receipt:

Eight sludge, solid, ground water samples were received for analysis at ALS Environmental on 05/20/2026. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

General Chemistry:

No significant anomalies were noted with this analysis.

Organic LC:

Method 1633final, 06/10/2026:The upper control criterion was exceeded for 11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS) in Continuing Calibration Verification (CCV) KQ2609462-09. The field samples analyzed in this sequence did not contain the analyte in question. Since the apparent problem indicated a potential high bias, the data quality was not affected. No further corrective action was required.

Method 1633final, 06/10/2026:Manual integration of one or more chromatographic peaks in several samples was required to correct the integration performed by the automated data processing program. The manual integration was performed in accordance with ALS policy, which is consistent with the National Environmental Laboratory Accreditation Program (NELAP), Department of Defense (DOD), and other certifying agencies. Refer to the raw data for the compounds impacted by the manual integration.

Approved by Date 06/12/2026

Chain of Custody

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

ALS Environmental
301 Fulling Mill Rd
Middletown, PA 17057
P. 717-944-5541
F.717-944-1430

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

~~COC~~ #: 1760519 | 4 of 4
ALS Quote #:

Client Name: ALS Middletown
Address: 301 Fulling Mill Rd
Middletown, PA 17057
Contact: Dereck Ciecierski
Phone#: 717-944-5541
Project Name/#: 40-3458226
Bill To: ALS Middletown

TAT [X] Normal-Standard TAT is 10-12 business days.
[ ] Rush-Subject to ALS approval and surcharges.
Date Required: Approved By:
Email? [X] -Y NAMDT.Subcontract@ALSGlobal.com
Fax? [ ] -Y No.:

Sample Description/Location (as it will appear on the lab report)	Sample Date	Time	*G or C	**Matrix	Container Type	Container Size	Preservative	ANALYSES/METHOD REQUESTED								
								DOD 1633 PFAS								SUB TO KELSO
					PN	250 mL	UNP									
MW702-12052026	5/12/2026	11:40	G	GW				3								
MW701-12052026	5/12/2026	12:03	G	GW				3								
MW301-12052026	5/12/2026	12:35	G	GW				3								
MW601-12052026	5/12/2026	13:06	G	GW				3								
MW602-12052026	5/12/2026	13:28	G	GW				3								
MW201-12052026	5/12/2026	13:55	G	GW				3								
SS-HLLA1-O-12	5/12/2026	14:12	G	S				2								
SS-HLLA2-O-12	5/12/2026	14:39	G	S				2								

Receipt Information (completed by Receiving Lab)
Cooler Temp: _____ Therm ID: _____
No. of Coolers: _____

	Y	N	Initial
Custody Seals Present?			
(if present) Seals Intact?			
Received on Ice?			
COC/Labels Complete/Accurate?			
Cont. in Good Cond.?			
Correct Containers?			
Correct Sample Volumes?			
Correct Preservation?			
Headspace/Volatiles?			

Courier/Tracking #:

Sample/COC Comments
3458226001
3458226002
3458226003
3458226004
3458226005
3458226006
3458226007
3458226008

ALS Field Services: __Pickup __Labor __Composite Sampling __Rental Equipment __Other:

LOGGED BY(signature): DATE: TIME:
REVIEWED BY(signature): DATE: TIME:

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
1	5/12/26	1700	2 Initial ALS	5/20/26	1045
3			4		
5			6		
7			8		
9			10		

Data Deliverables: [ ] Standard [ ] CLP-like [X] USACE [X] DOD

Special Processing: USACE [X] Navy [ ]

Reportable to PADEP? Yes [ ]
PWSID #

Sample Disposal: Lab [X] Special [ ]

EDDS: Format Type-

State Samples Collected In: [ ] NY [X] NJ [ ] PA [ ] NC [ ] MD

* G=Grab; C=Composite **Matrix - AI=Air; DW=Drinking Water; GW=Groundwater; OI=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater

ALS ENVIRONMENTAL SHIPPING ADDRESS: 34 DOGWOOD LANE, MIDDLETOWN, PA 17057

Rev 10/14

Cooler Receipt and Preservation Form

PM NP

Client ALS Middletown Service Request K26 05119

Received: 5/20/26 Opened: 5/20/26 By: VM Unloaded: 5/20/26 By: VM

1. Samples were received via? *USPS* *Fed Ex* *UPS* *DHL* *PDX* *Courier* *Hand Delivered*
2. Samples were received in: (circle) *Cooler* *Box* *Envelope* *Other* _____ *NA*
3. Were custody seals on coolers? NA Y N If yes, how many and where? _____
   If present, were custody seals intact? Y N If present, were they signed and dated? Y N

Temp Blank	Sample Temp	IR Gun	Cooler #/COC ID / NA	Out of temp Indicate with "X"	PM Notified If out of temp	Tracking Number NA	Filed
	2.8	IR02				448145140490	

4. Was a Temperature Blank present in cooler? NA Y N If yes, notate the temperature in the appropriate column below;
   If no, take the temperature of a representative sample bottle contained within the cooler; notate in the column "Sample Temp";
5. Were samples received within the method specified temperature ranges? NA Y N
   If no, were they received on ice and same day as collected? If not, notate the cooler # below and notify the PM. NA Y N

If applicable, tissue samples were received: *Frozen* *Partially Thawed* *Thawed*

6. Packing material: *Inserts* *Baggies* *Bubble Wrap* *Gel Packs* *Wet Ice* *Dry Ice* *Sleeves* _____
7. Were custody papers properly filled out (ink, signed, etc.)? NA Y N
8. Were samples received in good condition (unbroken) NA Y N
9. Were all sample labels complete (ie. analysis, preservation, etc.)? NA Y N
10. Did all sample labels and tags agree with custody papers? NA Y N
11. Were appropriate bottles/containers and volumes received for the tests indicated? NA Y N
12. Were the pH-preserved bottles (*see SMO GEN SOP*) received at the appropriate pH? *Indicate in the table below* NA Y N
13. Were VOA vials received without headspace? *Indicate in the table below.* NA Y N
14. Was C12/Res negative? NA Y N
15. Were samples received within method specified time limit? If not, notate the error below and notify the PM. NA Y N
16. Were 100mL sterile microbiology bottles filled exactly to the 100mL mark? NA Y N Underfilled Overfilled

Sample ID on Bottle	Sample ID on COC	Identified by:

Sample ID	Bottle Count Bottle Type	Head-space	Broke	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time

Notes, Discrepancies, Resolutions: _____

Total Solids

ALS Environmental—Kelso Laboratory
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Analytical Report

Client:	ALS Environmental - Middletown	**Service Request:**	K2605119
Project:	40-3458226	**Date Collected:**	05/12/26
Sample Matrix:	Sludge, Solid	**Date Received:**	05/20/26
Analysis Method:	160.3 Modified	**Units:**	Percent
Prep Method:	None	**Basis:**	As Received

Solids, Total

Sample Name	Lab Code	Result	MRL	MDL	Dil.	Date Analyzed	Q
SS-HLLA1-O-12	K2605119-007	**74.8**	-	-	1	05/22/26 12:16	
SS-HLLA2-O-12	K2605119-008	**85.6**	-	-	1	05/22/26 12:16	

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - Middletown	**Service Request:**	K2605119
Project	40-3458226	**Date Collected:**	05/12/26
Sample Matrix:	Sludge, Solid	**Date Received:**	05/20/26
		Date Analyzed:	05/22/26

Replicate Sample Summary
Inorganic Parameters

Sample Name:	SS-HLLA1-O-12	**Units:**	Percent
Lab Code:	K2605119-007	**Basis:**	As Received

Analyte Name	Analysis Method	MRL	Sample Result	Duplicate Sample K2605119-007DUP Result	Average	RPD	RPD Limit
Solids, Total	160.3 Modified	-	74.8	77.2	76.0	3	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

General Chemistry

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www.alsglobal.com

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	ALS Environmental - Middletown	**Service Request:**	K2605119
Project:	40-3458226	**Date Collected:**	05/12/26
Sample Matrix:	Ground Water	**Date Received:**	05/20/26
Analysis Method:	SM 2540 D Modified	**Units:**	mg/L
Prep Method:	None	**Basis:**	NA

Solids, Total Suspended (TSS)

Sample Name	Lab Code	Result	LOQ	LOD	MDL	Dil.	Date Analyzed	Q
MW702-12052026	K2605119-001	**120**	100	-	-	1	05/26/26 14:41	
MW701-12052026	K2605119-002	ND U	100	-	-	1	06/01/26 15:52	
MW201-12052026	K2605119-006	ND U	100	-	-	1	05/26/26 14:41	
Method Blank	K2605119-MB1	ND U	100	-	-	1	05/26/26 14:41	
Method Blank	K2605119-MB2	ND U	100	-	-	1	05/26/26 14:41	
Method Blank	K2605119-MB3	ND U	100	-	-	1	06/01/26 15:52	
Method Blank	K2605119-MB4	ND U	100	-	-	1	06/01/26 15:52	

Per and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

Analytical Report

Client:	ALS Environmental - Middletown	**Service Request:**	K2605119
Project:		**Date Collected:**	05/12/26 11:40
Sample Matrix:	Ground Water	**Date Received:**	05/20/26 10:45
Sample Name:	MW702-12052026	**Units:**	ng/L
Lab Code:	K2605119-001	**Basis:**	NA

Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: 1633
Prep Method: Method

Analyte Name	Result	LOQ	LOD	MDL	Dil.	Date Analyzed	Date Extracted	Q
Perfluoroalkyl Sulfonic Acids (PFSAs)								
Perfluorobutane sulfonic acid (PFBS)	**4.1**	1.7	0.89	0.84	1	06/09/26 04:16	6/8/26	
Perfluoropentane sulfonic acid (PFPeS)	**3.4**	1.7	0.94	0.50	1	06/09/26 04:16	6/8/26	
Perfluorohexane sulfonic acid (PFHxS)	**35**	1.7	0.91	0.53	1	06/09/26 04:16	6/8/26	
Perfluoroheptane sulfonic acid (PFHpS)	ND U	1.7	0.95	0.50	1	06/09/26 04:16	6/8/26	
Perfluorooctane sulfonic acid (PFOS)	**1.4 J**	1.7	0.93	0.50	1	06/09/26 04:16	6/8/26	
Perfluorononane sulfonic acid (PFNS)	ND U	1.7	0.96	0.50	1	06/09/26 04:16	6/8/26	
Perfluorodecane sulfonic acid (PFDS)	ND U	1.7	0.97	0.50	1	06/09/26 04:16	6/8/26	
Perfluorododecane sulfonic acid (PFDoS)	ND U	1.7	0.97	0.50	1	06/09/26 04:16	6/8/26	
Perfluoroalkyl Carboxylic Acids (PFCAs)								
Perfluorobutanoic acid (PFBA)	**6.1**	2.0	2.0	1.3	1	06/09/26 04:16	6/8/26	
Perfluoropentanoic acid (PFPeA)	**5.8**	1.7	1.0	0.50	1	06/09/26 04:16	6/8/26	
Perfluorohexanoic acid (PFHxA)	**5.0**	1.7	1.0	0.50	1	06/09/26 04:16	6/8/26	
Perfluoroheptanoic acid (PFHpA)	**0.99 J**	1.7	1.0	0.50	1	06/09/26 04:16	6/8/26	
Perfluorooctanoic acid (PFOA)	**3.3**	1.7	1.0	0.50	1	06/09/26 04:16	6/8/26	
Perfluorononanoic acid (PFNA)	ND U	1.7	1.0	0.50	1	06/09/26 04:16	6/8/26	
Perfluorodecanoic acid (PFDA)	ND U	1.7	1.0	0.75	1	06/09/26 04:16	6/8/26	
Perfluoroundecanoic acid (PFUnDA)	ND U	1.7	1.0	0.50	1	06/09/26 04:16	6/8/26	
Perfluorododecanoic acid (PFDOA)	ND U	1.7	1.0	0.50	1	06/09/26 04:16	6/8/26	
Perfluorotridecanoic acid (PFTrDA)	ND U	1.7	1.0	0.70	1	06/09/26 04:16	6/8/26	
Perfluorotetradecanoic acid (PFTDA)	ND U	1.7	1.0	0.50	1	06/09/26 04:16	6/8/26	
Perfluoroalkyl Sulfonamido Substances								
Perfluorooctane sulfonamide (PFOSAm)	ND U	1.7	1.0	0.50	1	06/09/26 04:16	6/8/26	
N-Methylperfluorooctane sulfonamide (MeFOSA)	ND U	1.7	1.0	0.50	1	06/09/26 04:16	6/8/26	
N-Ethylperfluorooctane sulfonamide (EtFOSAm)	ND U	1.7	1.0	0.50	1	06/09/26 04:16	6/8/26	
N-Methylperfluorooctane sulfonamido ethanol (MeFOSE)	ND U	1.7	1.0	0.53	1	06/09/26 04:16	6/8/26	
N-Ethylperfluorooctane sulfonamido ethanol (EtFOSE)	ND U	1.7	1.0	0.54	1	06/09/26 04:16	6/8/26	
N-Methylperfluorooctane sulfonamido acetic acid (NMeFOSAA)	ND U	1.7	1.0	0.50	1	06/09/26 04:16	6/8/26	
N-Ethylperfluorooctane sulfonamido acetic acid (NEtFOSAA)	ND U	1.7	1.0	0.61	1	06/09/26 04:16	6/8/26	

Analytical Report

Client:	ALS Environmental - Middletown	**Service Request:**	K2605119
Project:		**Date Collected:**	05/12/26 11:40
Sample Matrix:	Ground Water	**Date Received:**	05/20/26 10:45
Sample Name:	MW702-12052026	**Units:**	ng/L
Lab Code:	K2605119-001	**Basis:**	NA

Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: 1633
Prep Method: Method

Analyte Name	Result	LOQ	LOD	MDL	Dil.	Date Analyzed	Date Extracted	Q
Fluorotelomer Sulfonic Acids (FTSAs)								
1H, 1H, 2H, 2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND U	1.7	0.94	0.50	1	06/09/26 04:16	6/8/26	
1H, 1H, 2H, 2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND U	1.7	1.4	0.50	1	06/09/26 04:16	6/8/26	
1H, 1H, 2H, 2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND U	1.7	0.96	0.50	1	06/09/26 04:16	6/8/26	
Fluorotelomer Carboxylic Acids (FTCAs)								
4,4,5,5,6,6,6-Heptafluorohexanoic acid (3:3 FTCA)	ND U	17	10	4.2	1	06/09/26 04:16	6/8/26	
2H,2H,3H,3H-Perfluorooctanoic acid (5:3 FTCA)	ND U	17	10	8.2	1	06/09/26 04:16	6/8/26	
2H,2H,3H,3H-Perfluorodecanoic acid (7:3 FTCA)	ND U	17	10	7.0	1	06/09/26 04:16	6/8/26	
Perfluoroalkyl Ether Sulfonic Acids (PFESAs)								
Perfluoro(2-ethoxyethane) sulfonic acid (PFEESA)	ND U	1.7	0.89	0.50	1	06/09/26 04:16	6/8/26	
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)	ND U	1.7	0.93	0.50	1	06/09/26 04:16	6/8/26	
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	ND U	1.7	0.94	0.50	1	06/09/26 04:16	6/8/26	
Perfluoroalkyl Ether Carboxylic Acids (PFECAs)								
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND U	1.7	1.0	0.50	1	06/09/26 04:16	6/8/26	
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND U	1.7	1.0	0.50	1	06/09/26 04:16	6/8/26	
Hexafluoropropyleneoxide dimer acid (HFPO-DA) (GenX)	ND U	1.7	1.0	0.50	1	06/09/26 04:16	6/8/26	
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND U	1.7	1.0	0.50	1	06/09/26 04:16	6/8/26	
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	ND U	1.7	0.95	0.50	1	06/09/26 04:16	6/8/26	

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Analytical Report

Client:	ALS Environmental - Middletown	**Service Request:**	K2605119
Project:		**Date Collected:**	05/12/26 11:40
Sample Matrix:	Ground Water	**Date Received:**	05/20/26 10:45
Sample Name:	MW702-12052026	**Units:**	ng/L
Lab Code:	K2605119-001	**Basis:**	NA

Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: 1633
Prep Method: Method

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
13C3-PFBS	79	40 - 135	06/09/26 04:16	
13C3-PFHxS	69	40 - 130	06/09/26 04:16	
13C8-PFOS	65	40 - 130	06/09/26 04:16	
13C4-PFBA	76	5 - 130	06/09/26 04:16	
13C5-PFPeA	74	40 - 130	06/09/26 04:16	
13C5-PFHxA	73	40 - 130	06/09/26 04:16	
13C4-PFHpA	67	40 - 130	06/09/26 04:16	
13C8-PFOA	68	40 - 130	06/09/26 04:16	
13C9-PFNA	67	40 - 130	06/09/26 04:16	
13C6-PFDA	62	40 - 130	06/09/26 04:16	
13C7-PFUnDA	55	30 - 130	06/09/26 04:16	
13C2-PFDoDA	50	10 - 130	06/09/26 04:16	
13C2-PFTeDA	47	10 - 130	06/09/26 04:16	
13C8-FOSA	50	40 - 130	06/09/26 04:16	
D3-MeFOSA	51	10 - 130	06/09/26 04:16	
D5-EtFOSA	51	10 - 130	06/09/26 04:16	
D7-MeFOSE	44	10 - 130	06/09/26 04:16	
D9-EtFOSE	42	10 - 130	06/09/26 04:16	
D3-MeFOSAA	51	40 - 170	06/09/26 04:16	
D5-EtFOSAA	49	25 - 135	06/09/26 04:16	
13C2-4:2 FTS	75	40 - 200	06/09/26 04:16	
13C2-6:2 FTS	69	40 - 200	06/09/26 04:16	
13C2-8:2 FTS	66	40 - 300	06/09/26 04:16	
13C3-HFPO-DA	64	40 - 130	06/09/26 04:16	

Client:	ALS Environmental - Middletown	**Service Request:**	K2605119
Project:		**Date Collected:**	05/12/26 12:03
Sample Matrix:	Ground Water	**Date Received:**	05/20/26 10:45
Sample Name:	MW701-12052026	**Units:**	ng/L
Lab Code:	K2605119-002	**Basis:**	NA

Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: 1633
Prep Method: Method

Analyte Name	Result	LOQ	LOD	MDL	Dil.	Date Analyzed	Date Extracted	Q
Perfluoroalkyl Sulfonic Acids (PFSAs)								
Perfluorobutane sulfonic acid (PFBS)	**5.6**	1.7	0.89	0.84	1	06/09/26 04:33	6/8/26	
Perfluoropentane sulfonic acid (PFPeS)	**4.7**	1.7	0.94	0.50	1	06/09/26 04:33	6/8/26	
Perfluorohexane sulfonic acid (PFHxS)	**97**	1.7	0.91	0.53	1	06/09/26 04:33	6/8/26	
Perfluoroheptane sulfonic acid (PFHpS)	**1.0 J**	1.7	0.95	0.50	1	06/09/26 04:33	6/8/26	
Perfluorooctane sulfonic acid (PFOS)	**15**	1.7	0.93	0.50	1	06/09/26 04:33	6/8/26	
Perfluorononane sulfonic acid (PFNS)	ND U	1.7	0.96	0.50	1	06/09/26 04:33	6/8/26	
Perfluorodecane sulfonic acid (PFDS)	ND U	1.7	0.97	0.50	1	06/09/26 04:33	6/8/26	
Perfluorododecane sulfonic acid (PFDoS)	ND U	1.7	0.97	0.50	1	06/09/26 04:33	6/8/26	
Perfluoroalkyl Carboxylic Acids (PFCAs)								
Perfluorobutanoic acid (PFBA)	**18**	2.0	2.0	1.3	1	06/09/26 04:33	6/8/26	
Perfluoropentanoic acid (PFPeA)	**14**	1.7	1.0	0.50	1	06/09/26 04:33	6/8/26	
Perfluorohexanoic acid (PFHxA)	**18**	1.7	1.0	0.50	1	06/09/26 04:33	6/8/26	
Perfluoroheptanoic acid (PFHpA)	**3.7**	1.7	1.0	0.50	1	06/09/26 04:33	6/8/26	
Perfluorooctanoic acid (PFOA)	**17**	1.7	1.0	0.50	1	06/09/26 04:33	6/8/26	
Perfluorononanoic acid (PFNA)	**1.4 J**	1.7	1.0	0.50	1	06/09/26 04:33	6/8/26	
Perfluorodecanoic acid (PFDA)	ND U	1.7	1.0	0.75	1	06/09/26 04:33	6/8/26	
Perfluoroundecanoic acid (PFUnDA)	ND U	1.7	1.0	0.50	1	06/09/26 04:33	6/8/26	
Perfluorododecanoic acid (PFDOA)	ND U	1.7	1.0	0.50	1	06/09/26 04:33	6/8/26	
Perfluorotridecanoic acid (PFTrDA)	ND U	1.7	1.0	0.70	1	06/09/26 04:33	6/8/26	
Perfluorotetradecanoic acid (PFTDA)	ND U	1.7	1.0	0.50	1	06/09/26 04:33	6/8/26	
Perfluoroalkyl Sulfonamido Substances								
Perfluorooctane sulfonamide (PFOSAm)	ND U	1.7	1.0	0.50	1	06/09/26 04:33	6/8/26	
N-Methylperfluorooctane sulfonamide (MeFOSA)	ND U	1.7	1.0	0.50	1	06/09/26 04:33	6/8/26	
N-Ethylperfluorooctane sulfonamide (EtFOSAm)	ND U	1.7	1.0	0.50	1	06/09/26 04:33	6/8/26	
N-Methylperfluorooctane sulfonamido ethanol (MeFOSE)	ND U	1.7	1.0	0.53	1	06/09/26 04:33	6/8/26	
N-Ethylperfluorooctane sulfonamido ethanol (EtFOSE)	ND U	1.7	1.0	0.54	1	06/09/26 04:33	6/8/26	
N-Methylperfluorooctane sulfonamido acetic acid (NMeFOSAA)	ND U	1.7	1.0	0.50	1	06/09/26 04:33	6/8/26	
N-Ethylperfluorooctane sulfonamido acetic acid (NEtFOSAA)	ND U	1.7	1.0	0.61	1	06/09/26 04:33	6/8/26	

Analytical Report

Client:	ALS Environmental - Middletown	**Service Request:**	K2605119
Project:		**Date Collected:**	05/12/26 12:03
Sample Matrix:	Ground Water	**Date Received:**	05/20/26 10:45
Sample Name:	MW701-12052026	**Units:**	ng/L
Lab Code:	K2605119-002	**Basis:**	NA

Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: 1633
Prep Method: Method

Analyte Name	Result	LOQ	LOD	MDL	Dil.	Date Analyzed	Date Extracted	Q
Fluorotelomer Sulfonic Acids (FTSAs)								
1H, 1H, 2H, 2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND U	1.7	0.94	0.50	1	06/09/26 04:33	6/8/26	
1H, 1H, 2H, 2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND U	1.7	1.4	0.50	1	06/09/26 04:33	6/8/26	
1H, 1H, 2H, 2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND U	1.7	0.96	0.50	1	06/09/26 04:33	6/8/26	
Fluorotelomer Carboxylic Acids (FTCAs)								
4,4,5,5,6,6,6-Heptafluorohexanoic acid (3:3 FTCA)	ND U	17	10	4.2	1	06/09/26 04:33	6/8/26	
2H,2H,3H,3H-Perfluorooctanoic acid (5:3 FTCA)	ND U	17	10	8.2	1	06/09/26 04:33	6/8/26	
2H,2H,3H,3H-Perfluorodecanoic acid (7:3 FTCA)	ND U	17	10	7.0	1	06/09/26 04:33	6/8/26	
Perfluoroalkyl Ether Sulfonic Acids (PFESAs)								
Perfluoro(2-ethoxyethane) sulfonic acid (PFEESA)	ND U	1.7	0.89	0.50	1	06/09/26 04:33	6/8/26	
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)	ND U	1.7	0.93	0.50	1	06/09/26 04:33	6/8/26	
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	ND U	1.7	0.94	0.50	1	06/09/26 04:33	6/8/26	
Perfluoroalkyl Ether Carboxylic Acids (PFECAs)								
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND U	1.7	1.0	0.50	1	06/09/26 04:33	6/8/26	
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND U	1.7	1.0	0.50	1	06/09/26 04:33	6/8/26	
Hexafluoropropyleneoxide dimer acid (HFPO-DA) (GenX)	ND U	1.7	1.0	0.50	1	06/09/26 04:33	6/8/26	
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND U	1.7	1.0	0.50	1	06/09/26 04:33	6/8/26	
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	ND U	1.7	0.95	0.50	1	06/09/26 04:33	6/8/26	

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Analytical Report

Client:	ALS Environmental - Middletown	**Service Request:**	K2605119
Project:		**Date Collected:**	05/12/26 12:03
Sample Matrix:	Ground Water	**Date Received:**	05/20/26 10:45
Sample Name:	MW701-12052026	**Units:**	ng/L
Lab Code:	K2605119-002	**Basis:**	NA

Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: 1633
Prep Method: Method

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
13C3-PFBS	102	40 - 135	06/09/26 04:33	
13C3-PFHxS	88	40 - 130	06/09/26 04:33	
13C8-PFOS	90	40 - 130	06/09/26 04:33	
13C4-PFBA	97	5 - 130	06/09/26 04:33	
13C5-PFPeA	90	40 - 130	06/09/26 04:33	
13C5-PFHxA	93	40 - 130	06/09/26 04:33	
13C4-PFHpA	89	40 - 130	06/09/26 04:33	
13C8-PFOA	89	40 - 130	06/09/26 04:33	
13C9-PFNA	90	40 - 130	06/09/26 04:33	
13C6-PFDA	85	40 - 130	06/09/26 04:33	
13C7-PFUnDA	78	30 - 130	06/09/26 04:33	
13C2-PFDoDA	71	10 - 130	06/09/26 04:33	
13C2-PFTeDA	62	10 - 130	06/09/26 04:33	
13C8-FOSA	68	40 - 130	06/09/26 04:33	
D3-MeFOSA	70	10 - 130	06/09/26 04:33	
D5-EtFOSA	68	10 - 130	06/09/26 04:33	
D7-MeFOSE	63	10 - 130	06/09/26 04:33	
D9-EtFOSE	61	10 - 130	06/09/26 04:33	
D3-MeFOSAA	70	40 - 170	06/09/26 04:33	
D5-EtFOSAA	70	25 - 135	06/09/26 04:33	
13C2-4:2 FTS	104	40 - 200	06/09/26 04:33	
13C2-6:2 FTS	87	40 - 200	06/09/26 04:33	
13C2-8:2 FTS	91	40 - 300	06/09/26 04:33	
13C3-HFPO-DA	82	40 - 130	06/09/26 04:33	

Client:	ALS Environmental - Middletown	**Service Request:**	K2605119
Project:		**Date Collected:**	05/12/26 12:35
Sample Matrix:	Ground Water	**Date Received:**	05/20/26 10:45
Sample Name:	MW301-12052026	**Units:**	ng/L
Lab Code:	K2605119-003	**Basis:**	NA

Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: 1633
Prep Method: Method

Analyte Name	Result	LOQ	LOD	MDL	Dil.	Date Analyzed	Date Extracted	Q
Perfluoroalkyl Sulfonic Acids (PFSAs)								
Perfluorobutane sulfonic acid (PFBS)	**0.85 J**	1.7	0.89	0.84	1	06/09/26 04:49	6/8/26	
Perfluoropentane sulfonic acid (PFPeS)	ND U	1.7	0.94	0.50	1	06/09/26 04:49	6/8/26	
Perfluorohexane sulfonic acid (PFHxS)	**1.5 J**	1.7	0.91	0.53	1	06/09/26 04:49	6/8/26	
Perfluoroheptane sulfonic acid (PFHpS)	ND U	1.7	0.95	0.50	1	06/09/26 04:49	6/8/26	
Perfluorooctane sulfonic acid (PFOS)	**1.6 J**	1.7	0.93	0.50	1	06/09/26 04:49	6/8/26	
Perfluorononane sulfonic acid (PFNS)	ND U	1.7	0.96	0.50	1	06/09/26 04:49	6/8/26	
Perfluorodecane sulfonic acid (PFDS)	ND U	1.7	0.97	0.50	1	06/09/26 04:49	6/8/26	
Perfluorododecane sulfonic acid (PFDoS)	ND U	1.7	0.97	0.50	1	06/09/26 04:49	6/8/26	
Perfluoroalkyl Carboxylic Acids (PFCAs)								
Perfluorobutanoic acid (PFBA)	**1.7 J**	2.0	2.0	1.3	1	06/09/26 04:49	6/8/26	
Perfluoropentanoic acid (PFPeA)	**1.1 J**	1.7	1.0	0.50	1	06/09/26 04:49	6/8/26	
Perfluorohexanoic acid (PFHxA)	**1.4 J**	1.7	1.0	0.50	1	06/09/26 04:49	6/8/26	
Perfluoroheptanoic acid (PFHpA)	**1.2 J**	1.7	1.0	0.50	1	06/09/26 04:49	6/8/26	
Perfluorooctanoic acid (PFOA)	**4.2**	1.7	1.0	0.50	1	06/09/26 04:49	6/8/26	
Perfluorononanoic acid (PFNA)	**0.68 J**	1.7	1.0	0.50	1	06/09/26 04:49	6/8/26	
Perfluorodecanoic acid (PFDA)	ND U	1.7	1.0	0.75	1	06/09/26 04:49	6/8/26	
Perfluoroundecanoic acid (PFUnDA)	ND U	1.7	1.0	0.50	1	06/09/26 04:49	6/8/26	
Perfluorododecanoic acid (PFDOA)	ND U	1.7	1.0	0.50	1	06/09/26 04:49	6/8/26	
Perfluorotridecanoic acid (PFTrDA)	ND U	1.7	1.0	0.70	1	06/09/26 04:49	6/8/26	
Perfluorotetradecanoic acid (PFTDA)	ND U	1.7	1.0	0.50	1	06/09/26 04:49	6/8/26	
Perfluoroalkyl Sulfonamido Substances								
Perfluorooctane sulfonamide (PFOSAm)	ND U	1.7	1.0	0.50	1	06/09/26 04:49	6/8/26	
N-Methylperfluorooctane sulfonamide (MeFOSA)	ND U	1.7	1.0	0.50	1	06/09/26 04:49	6/8/26	
N-Ethylperfluorooctane sulfonamide (EtFOSAm)	ND U	1.7	1.0	0.50	1	06/09/26 04:49	6/8/26	
N-Methylperfluorooctane sulfonamido ethanol (MeFOSE)	ND U	1.7	1.0	0.53	1	06/09/26 04:49	6/8/26	
N-Ethylperfluorooctane sulfonamido ethanol (EtFOSE)	ND U	1.7	1.0	0.54	1	06/09/26 04:49	6/8/26	
N-Methylperfluorooctane sulfonamido acetic acid (NMeFOSAA)	ND U	1.7	1.0	0.50	1	06/09/26 04:49	6/8/26	
N-Ethylperfluorooctane sulfonamido acetic acid (NEtFOSAA)	ND U	1.7	1.0	0.61	1	06/09/26 04:49	6/8/26	

Analytical Report

Client:	ALS Environmental - Middletown	**Service Request:**	K2605119
Project:		**Date Collected:**	05/12/26 12:35
Sample Matrix:	Ground Water	**Date Received:**	05/20/26 10:45
Sample Name:	MW301-12052026	**Units:**	ng/L
Lab Code:	K2605119-003	**Basis:**	NA

Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: 1633
Prep Method: Method

Analyte Name	Result	LOQ	LOD	MDL	Dil.	Date Analyzed	Date Extracted	Q
Fluorotelomer Sulfonic Acids (FTSAs)								
1H, 1H, 2H, 2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND U	1.7	0.94	0.50	1	06/09/26 04:49	6/8/26	
1H, 1H, 2H, 2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND U	1.7	1.4	0.50	1	06/09/26 04:49	6/8/26	
1H, 1H, 2H, 2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND U	1.7	0.96	0.50	1	06/09/26 04:49	6/8/26	
Fluorotelomer Carboxylic Acids (FTCAs)								
4,4,5,5,6,6,6-Heptafluorohexanoic acid (3:3 FTCA)	ND U	17	10	4.2	1	06/09/26 04:49	6/8/26	
2H,2H,3H,3H-Perfluorooctanoic acid (5:3 FTCA)	ND U	17	10	8.2	1	06/09/26 04:49	6/8/26	
2H,2H,3H,3H-Perfluorodecanoic acid (7:3 FTCA)	ND U	17	10	7.0	1	06/09/26 04:49	6/8/26	
Perfluoroalkyl Ether Sulfonic Acids (PFESAs)								
Perfluoro(2-ethoxyethane) sulfonic acid (PFEESA)	ND U	1.7	0.89	0.50	1	06/09/26 04:49	6/8/26	
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)	ND U	1.7	0.93	0.50	1	06/09/26 04:49	6/8/26	
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	ND U	1.7	0.94	0.50	1	06/09/26 04:49	6/8/26	
Perfluoroalkyl Ether Carboxylic Acids (PFECAs)								
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND U	1.7	1.0	0.50	1	06/09/26 04:49	6/8/26	
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND U	1.7	1.0	0.50	1	06/09/26 04:49	6/8/26	
Hexafluoropropyleneoxide dimer acid (HFPO-DA) (GenX)	ND U	1.7	1.0	0.50	1	06/09/26 04:49	6/8/26	
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND U	1.7	1.0	0.50	1	06/09/26 04:49	6/8/26	
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	ND U	1.7	0.95	0.50	1	06/09/26 04:49	6/8/26	

Client:	ALS Environmental - Middletown	**Service Request:**	K2605119
Project:		**Date Collected:**	05/12/26 12:35
Sample Matrix:	Ground Water	**Date Received:**	05/20/26 10:45
Sample Name:	MW301-12052026	**Units:**	ng/L
Lab Code:	K2605119-003	**Basis:**	NA

Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: 1633
Prep Method: Method

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
13C3-PFBS	87	40 - 135	06/09/26 04:49	
13C3-PFHxS	78	40 - 130	06/09/26 04:49	
13C8-PFOS	75	40 - 130	06/09/26 04:49	
13C4-PFBA	85	5 - 130	06/09/26 04:49	
13C5-PFPeA	83	40 - 130	06/09/26 04:49	
13C5-PFHxA	82	40 - 130	06/09/26 04:49	
13C4-PFHpA	77	40 - 130	06/09/26 04:49	
13C8-PFOA	79	40 - 130	06/09/26 04:49	
13C9-PFNA	76	40 - 130	06/09/26 04:49	
13C6-PFDA	74	40 - 130	06/09/26 04:49	
13C7-PFUnDA	67	30 - 130	06/09/26 04:49	
13C2-PFDoDA	59	10 - 130	06/09/26 04:49	
13C2-PFTeDA	54	10 - 130	06/09/26 04:49	
13C8-FOSA	58	40 - 130	06/09/26 04:49	
D3-MeFOSA	56	10 - 130	06/09/26 04:49	
D5-EtFOSA	57	10 - 130	06/09/26 04:49	
D7-MeFOSE	53	10 - 130	06/09/26 04:49	
D9-EtFOSE	52	10 - 130	06/09/26 04:49	
D3-MeFOSAA	62	40 - 170	06/09/26 04:49	
D5-EtFOSAA	60	25 - 135	06/09/26 04:49	
13C2-4:2 FTS	81	40 - 200	06/09/26 04:49	
13C2-6:2 FTS	80	40 - 200	06/09/26 04:49	
13C2-8:2 FTS	81	40 - 300	06/09/26 04:49	
13C3-HFPO-DA	72	40 - 130	06/09/26 04:49	

Analytical Report

Client:	ALS Environmental - Middletown	**Service Request:**	K2605119
Project:		**Date Collected:**	05/12/26 13:06
Sample Matrix:	Ground Water	**Date Received:**	05/20/26 10:45
Sample Name:	MW601-12052026	**Units:**	ng/L
Lab Code:	K2605119-004	**Basis:**	NA

Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: 1633
Prep Method: Method

Analyte Name	Result	LOQ	LOD	MDL	Dil.	Date Analyzed	Date Extracted	Q
Perfluoroalkyl Sulfonic Acids (PFSAs)								
Perfluorobutane sulfonic acid (PFBS)	**1.2 J**	1.7	0.89	0.84	1	06/09/26 05:05	6/8/26	
Perfluoropentane sulfonic acid (PFPeS)	ND U	1.7	0.94	0.50	1	06/09/26 05:05	6/8/26	
Perfluorohexane sulfonic acid (PFHxS)	**2.0**	1.7	0.91	0.53	1	06/09/26 05:05	6/8/26	
Perfluoroheptane sulfonic acid (PFHpS)	ND U	1.7	0.95	0.50	1	06/09/26 05:05	6/8/26	
Perfluorooctane sulfonic acid (PFOS)	**2.1**	1.7	0.93	0.50	1	06/09/26 05:05	6/8/26	
Perfluorononane sulfonic acid (PFNS)	ND U	1.7	0.96	0.50	1	06/09/26 05:05	6/8/26	
Perfluorodecane sulfonic acid (PFDS)	ND U	1.7	0.97	0.50	1	06/09/26 05:05	6/8/26	
Perfluorododecane sulfonic acid (PFDoS)	ND U	1.7	0.97	0.50	1	06/09/26 05:05	6/8/26	
Perfluoroalkyl Carboxylic Acids (PFCAs)								
Perfluorobutanoic acid (PFBA)	**2.0**	2.0	2.0	1.3	1	06/09/26 05:05	6/8/26	
Perfluoropentanoic acid (PFPeA)	**1.7**	1.7	1.0	0.50	1	06/09/26 05:05	6/8/26	
Perfluorohexanoic acid (PFHxA)	**1.9**	1.7	1.0	0.50	1	06/09/26 05:05	6/8/26	
Perfluoroheptanoic acid (PFHpA)	**2.0**	1.7	1.0	0.50	1	06/09/26 05:05	6/8/26	
Perfluorooctanoic acid (PFOA)	**7.5**	1.7	1.0	0.50	1	06/09/26 05:05	6/8/26	
Perfluorononanoic acid (PFNA)	**1.1 J**	1.7	1.0	0.50	1	06/09/26 05:05	6/8/26	
Perfluorodecanoic acid (PFDA)	ND U	1.7	1.0	0.75	1	06/09/26 05:05	6/8/26	
Perfluoroundecanoic acid (PFUnDA)	ND U	1.7	1.0	0.50	1	06/09/26 05:05	6/8/26	
Perfluorododecanoic acid (PFDOA)	ND U	1.7	1.0	0.50	1	06/09/26 05:05	6/8/26	
Perfluorotridecanoic acid (PFTrDA)	ND U	1.7	1.0	0.70	1	06/09/26 05:05	6/8/26	
Perfluorotetradecanoic acid (PFTDA)	ND U	1.7	1.0	0.50	1	06/09/26 05:05	6/8/26	
Perfluoroalkyl Sulfonamido Substances								
Perfluorooctane sulfonamide (PFOSAm)	ND U	1.7	1.0	0.50	1	06/09/26 05:05	6/8/26	
N-Methylperfluorooctane sulfonamide (MeFOSA)	ND U	1.7	1.0	0.50	1	06/09/26 05:05	6/8/26	
N-Ethylperfluorooctane sulfonamide (EtFOSAm)	ND U	1.7	1.0	0.50	1	06/09/26 05:05	6/8/26	
N-Methylperfluorooctane sulfonamido ethanol (MeFOSE)	ND U	1.7	1.0	0.53	1	06/09/26 05:05	6/8/26	
N-Ethylperfluorooctane sulfonamido ethanol (EtFOSE)	ND U	1.7	1.0	0.54	1	06/09/26 05:05	6/8/26	
N-Methylperfluorooctane sulfonamido acetic acid (NMeFOSAA)	ND U	1.7	1.0	0.50	1	06/09/26 05:05	6/8/26	
N-Ethylperfluorooctane sulfonamido acetic acid (NEtFOSAA)	ND U	1.7	1.0	0.61	1	06/09/26 05:05	6/8/26	

Analytical Report

Client:	ALS Environmental - Middletown	**Service Request:**	K2605119
Project:		**Date Collected:**	05/12/26 13:06
Sample Matrix:	Ground Water	**Date Received:**	05/20/26 10:45
Sample Name:	MW601-12052026	**Units:**	ng/L
Lab Code:	K2605119-004	**Basis:**	NA

Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: 1633
Prep Method: Method

Analyte Name	Result	LOQ	LOD	MDL	Dil.	Date Analyzed	Date Extracted	Q
Fluorotelomer Sulfonic Acids (FTSAs)								
1H, 1H, 2H, 2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND U	1.7	0.94	0.50	1	06/09/26 05:05	6/8/26	
1H, 1H, 2H, 2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND U	1.7	1.4	0.50	1	06/09/26 05:05	6/8/26	
1H, 1H, 2H, 2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND U	1.7	0.96	0.50	1	06/09/26 05:05	6/8/26	
Fluorotelomer Carboxylic Acids (FTCAs)								
4,4,5,5,6,6,6-Heptafluorohexanoic acid (3:3 FTCA)	ND U	17	10	4.2	1	06/09/26 05:05	6/8/26	
2H,2H,3H,3H-Perfluorooctanoic acid (5:3 FTCA)	ND U	17	10	8.2	1	06/09/26 05:05	6/8/26	
2H,2H,3H,3H-Perfluorodecanoic acid (7:3 FTCA)	ND U	17	10	7.0	1	06/09/26 05:05	6/8/26	
Perfluoroalkyl Ether Sulfonic Acids (PFESAs)								
Perfluoro(2-ethoxyethane) sulfonic acid (PFEESA)	ND U	1.7	0.89	0.50	1	06/09/26 05:05	6/8/26	
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)	ND U	1.7	0.93	0.50	1	06/09/26 05:05	6/8/26	
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	ND U	1.7	0.94	0.50	1	06/09/26 05:05	6/8/26	
Perfluoroalkyl Ether Carboxylic Acids (PFECAs)								
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND U	1.7	1.0	0.50	1	06/09/26 05:05	6/8/26	
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND U	1.7	1.0	0.50	1	06/09/26 05:05	6/8/26	
Hexafluoropropyleneoxide dimer acid (HFPO-DA) (GenX)	ND U	1.7	1.0	0.50	1	06/09/26 05:05	6/8/26	
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND U	1.7	1.0	0.50	1	06/09/26 05:05	6/8/26	
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	ND U	1.7	0.95	0.50	1	06/09/26 05:05	6/8/26	

Analytical Report

Client:	ALS Environmental - Middletown	**Service Request:**	K2605119
Project:		**Date Collected:**	05/12/26 13:06
Sample Matrix:	Ground Water	**Date Received:**	05/20/26 10:45
Sample Name:	MW601-12052026	**Units:**	ng/L
Lab Code:	K2605119-004	**Basis:**	NA

Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: 1633
Prep Method: Method

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
13C3-PFBS	87	40 - 135	06/09/26 05:05	
13C3-PFHxS	82	40 - 130	06/09/26 05:05	
13C8-PFOS	80	40 - 130	06/09/26 05:05	
13C4-PFBA	87	5 - 130	06/09/26 05:05	
13C5-PFPeA	84	40 - 130	06/09/26 05:05	
13C5-PFHxA	85	40 - 130	06/09/26 05:05	
13C4-PFHpA	81	40 - 130	06/09/26 05:05	
13C8-PFOA	82	40 - 130	06/09/26 05:05	
13C9-PFNA	83	40 - 130	06/09/26 05:05	
13C6-PFDA	81	40 - 130	06/09/26 05:05	
13C7-PFUnDA	76	30 - 130	06/09/26 05:05	
13C2-PFDoDA	70	10 - 130	06/09/26 05:05	
13C2-PFTeDA	69	10 - 130	06/09/26 05:05	
13C8-FOSA	64	40 - 130	06/09/26 05:05	
D3-MeFOSA	62	10 - 130	06/09/26 05:05	
D5-EtFOSA	60	10 - 130	06/09/26 05:05	
D7-MeFOSE	64	10 - 130	06/09/26 05:05	
D9-EtFOSE	65	10 - 130	06/09/26 05:05	
D3-MeFOSAA	68	40 - 170	06/09/26 05:05	
D5-EtFOSAA	67	25 - 135	06/09/26 05:05	
13C2-4:2 FTS	81	40 - 200	06/09/26 05:05	
13C2-6:2 FTS	85	40 - 200	06/09/26 05:05	
13C2-8:2 FTS	91	40 - 300	06/09/26 05:05	
13C3-HFPO-DA	76	40 - 130	06/09/26 05:05	

Analytical Report

Client:	ALS Environmental - Middletown	**Service Request:**	K2605119
Project:		**Date Collected:**	05/12/26 13:28
Sample Matrix:	Ground Water	**Date Received:**	05/20/26 10:45
Sample Name:	MW602-12052026	**Units:**	ng/L
Lab Code:	K2605119-005	**Basis:**	NA

Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: 1633
Prep Method: Method

Analyte Name	Result	LOQ	LOD	MDL	Dil.	Date Analyzed	Date Extracted	Q
Perfluoroalkyl Sulfonic Acids (PFSAs)								
Perfluorobutane sulfonic acid (PFBS)	**1.3 J**	1.7	0.89	0.84	1	06/09/26 05:53	6/8/26	
Perfluoropentane sulfonic acid (PFPeS)	**0.53 J**	1.7	0.94	0.50	1	06/09/26 05:53	6/8/26	
Perfluorohexane sulfonic acid (PFHxS)	**4.8**	1.7	0.91	0.53	1	06/09/26 05:53	6/8/26	
Perfluoroheptane sulfonic acid (PFHpS)	ND U	1.7	0.95	0.50	1	06/09/26 05:53	6/8/26	
Perfluorooctane sulfonic acid (PFOS)	**2.8**	1.7	0.93	0.50	1	06/09/26 05:53	6/8/26	
Perfluorononane sulfonic acid (PFNS)	ND U	1.7	0.96	0.50	1	06/09/26 05:53	6/8/26	
Perfluorodecane sulfonic acid (PFDS)	ND U	1.7	0.97	0.50	1	06/09/26 05:53	6/8/26	
Perfluorododecane sulfonic acid (PFDoS)	ND U	1.7	0.97	0.50	1	06/09/26 05:53	6/8/26	
Perfluoroalkyl Carboxylic Acids (PFCAs)								
Perfluorobutanoic acid (PFBA)	**3.3**	2.0	2.0	1.3	1	06/09/26 05:53	6/8/26	
Perfluoropentanoic acid (PFPeA)	**3.2**	1.7	1.0	0.50	1	06/09/26 05:53	6/8/26	
Perfluorohexanoic acid (PFHxA)	**2.6**	1.7	1.0	0.50	1	06/09/26 05:53	6/8/26	
Perfluoroheptanoic acid (PFHpA)	**2.1**	1.7	1.0	0.50	1	06/09/26 05:53	6/8/26	
Perfluorooctanoic acid (PFOA)	**8.7**	1.7	1.0	0.50	1	06/09/26 05:53	6/8/26	
Perfluorononanoic acid (PFNA)	**0.55 J**	1.7	1.0	0.50	1	06/09/26 05:53	6/8/26	
Perfluorodecanoic acid (PFDA)	ND U	1.7	1.0	0.75	1	06/09/26 05:53	6/8/26	
Perfluoroundecanoic acid (PFUnDA)	ND U	1.7	1.0	0.50	1	06/09/26 05:53	6/8/26	
Perfluorododecanoic acid (PFDOA)	ND U	1.7	1.0	0.50	1	06/09/26 05:53	6/8/26	
Perfluorotridecanoic acid (PFTrDA)	ND U	1.7	1.0	0.70	1	06/09/26 05:53	6/8/26	
Perfluorotetradecanoic acid (PFTDA)	ND U	1.7	1.0	0.50	1	06/09/26 05:53	6/8/26	
Perfluoroalkyl Sulfonamido Substances								
Perfluorooctane sulfonamide (PFOSAm)	ND U	1.7	1.0	0.50	1	06/09/26 05:53	6/8/26	
N-Methylperfluorooctane sulfonamide (MeFOSA)	ND U	1.7	1.0	0.50	1	06/09/26 05:53	6/8/26	
N-Ethylperfluorooctane sulfonamide (EtFOSAm)	ND U	1.7	1.0	0.50	1	06/09/26 05:53	6/8/26	
N-Methylperfluorooctane sulfonamido ethanol (MeFOSE)	ND U	1.7	1.0	0.53	1	06/09/26 05:53	6/8/26	
N-Ethylperfluorooctane sulfonamido ethanol (EtFOSE)	ND U	1.7	1.0	0.54	1	06/09/26 05:53	6/8/26	
N-Methylperfluorooctane sulfonamido acetic acid (NMeFOSAA)	ND U	1.7	1.0	0.50	1	06/09/26 05:53	6/8/26	
N-Ethylperfluorooctane sulfonamido acetic acid (NEtFOSAA)	ND U	1.7	1.0	0.61	1	06/09/26 05:53	6/8/26	

Client:	ALS Environmental - Middletown	**Service Request:**	K2605119
Project:		**Date Collected:**	05/12/26 13:28
Sample Matrix:	Ground Water	**Date Received:**	05/20/26 10:45
Sample Name:	MW602-12052026	**Units:**	ng/L
Lab Code:	K2605119-005	**Basis:**	NA

Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: 1633
Prep Method: Method

Analyte Name	Result	LOQ	LOD	MDL	Dil.	Date Analyzed	Date Extracted	Q
Fluorotelomer Sulfonic Acids (FTSAs)								
1H, 1H, 2H, 2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND U	1.7	0.94	0.50	1	06/09/26 05:53	6/8/26	
1H, 1H, 2H, 2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND U	1.7	1.4	0.50	1	06/09/26 05:53	6/8/26	
1H, 1H, 2H, 2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND U	1.7	0.96	0.50	1	06/09/26 05:53	6/8/26	
Fluorotelomer Carboxylic Acids (FTCAs)								
4,4,5,5,6,6,6-Heptafluorohexanoic acid (3:3 FTCA)	ND U	17	10	4.2	1	06/09/26 05:53	6/8/26	
2H,2H,3H,3H-Perfluorooctanoic acid (5:3 FTCA)	ND U	17	10	8.2	1	06/09/26 05:53	6/8/26	
2H,2H,3H,3H-Perfluorodecanoic acid (7:3 FTCA)	ND U	17	10	7.0	1	06/09/26 05:53	6/8/26	
Perfluoroalkyl Ether Sulfonic Acids (PFESAs)								
Perfluoro(2-ethoxyethane) sulfonic acid (PFEESA)	ND U	1.7	0.89	0.50	1	06/09/26 05:53	6/8/26	
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)	ND U	1.7	0.93	0.50	1	06/09/26 05:53	6/8/26	
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	ND U	1.7	0.94	0.50	1	06/09/26 05:53	6/8/26	
Perfluoroalkyl Ether Carboxylic Acids (PFECAs)								
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND U	1.7	1.0	0.50	1	06/09/26 05:53	6/8/26	
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND U	1.7	1.0	0.50	1	06/09/26 05:53	6/8/26	
Hexafluoropropyleneoxide dimer acid (HFPO-DA) (GenX)	ND U	1.7	1.0	0.50	1	06/09/26 05:53	6/8/26	
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND U	1.7	1.0	0.50	1	06/09/26 05:53	6/8/26	
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	ND U	1.7	0.95	0.50	1	06/09/26 05:53	6/8/26	

Client:	ALS Environmental - Middletown	**Service Request:**	K2605119
Project:		**Date Collected:**	05/12/26 13:28
Sample Matrix:	Ground Water	**Date Received:**	05/20/26 10:45
Sample Name:	MW602-12052026	**Units:**	ng/L
Lab Code:	K2605119-005	**Basis:**	NA

Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: 1633
Prep Method: Method

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
13C3-PFBS	83	40 - 135	06/09/26 05:53	
13C3-PFHxS	79	40 - 130	06/09/26 05:53	
13C8-PFOS	76	40 - 130	06/09/26 05:53	
13C4-PFBA	83	5 - 130	06/09/26 05:53	
13C5-PFPeA	83	40 - 130	06/09/26 05:53	
13C5-PFHxA	80	40 - 130	06/09/26 05:53	
13C4-PFHpA	77	40 - 130	06/09/26 05:53	
13C8-PFOA	78	40 - 130	06/09/26 05:53	
13C9-PFNA	77	40 - 130	06/09/26 05:53	
13C6-PFDA	77	40 - 130	06/09/26 05:53	
13C7-PFUnDA	73	30 - 130	06/09/26 05:53	
13C2-PFDoDA	67	10 - 130	06/09/26 05:53	
13C2-PFTeDA	66	10 - 130	06/09/26 05:53	
13C8-FOSA	61	40 - 130	06/09/26 05:53	
D3-MeFOSA	63	10 - 130	06/09/26 05:53	
D5-EtFOSA	63	10 - 130	06/09/26 05:53	
D7-MeFOSE	61	10 - 130	06/09/26 05:53	
D9-EtFOSE	62	10 - 130	06/09/26 05:53	
D3-MeFOSAA	65	40 - 170	06/09/26 05:53	
D5-EtFOSAA	64	25 - 135	06/09/26 05:53	
13C2-4:2 FTS	77	40 - 200	06/09/26 05:53	
13C2-6:2 FTS	79	40 - 200	06/09/26 05:53	
13C2-8:2 FTS	85	40 - 300	06/09/26 05:53	
13C3-HFPO-DA	71	40 - 130	06/09/26 05:53	

Analytical Report

Client:	ALS Environmental - Middletown	**Service Request:**	K2605119
Project:		**Date Collected:**	05/12/26 13:55
Sample Matrix:	Ground Water	**Date Received:**	05/20/26 10:45
Sample Name:	MW201-12052026	**Units:**	ng/L
Lab Code:	K2605119-006	**Basis:**	NA

Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: 1633
Prep Method: Method

Analyte Name	Result	LOQ	LOD	MDL	Dil.	Date Analyzed	Date Extracted	Q
Perfluoroalkyl Sulfonic Acids (PFSAs)								
Perfluorobutane sulfonic acid (PFBS)	ND U	1.7	0.89	0.84	1	06/09/26 06:10	6/8/26	
Perfluoropentane sulfonic acid (PFPeS)	ND U	1.7	0.94	0.50	1	06/09/26 06:10	6/8/26	
Perfluorohexane sulfonic acid (PFHxS)	**0.81 J**	1.7	0.91	0.53	1	06/09/26 06:10	6/8/26	
Perfluoroheptane sulfonic acid (PFHpS)	ND U	1.7	0.95	0.50	1	06/09/26 06:10	6/8/26	
Perfluorooctane sulfonic acid (PFOS)	**12**	1.7	0.93	0.50	1	06/09/26 06:10	6/8/26	
Perfluorononane sulfonic acid (PFNS)	ND U	1.7	0.96	0.50	1	06/09/26 06:10	6/8/26	
Perfluorodecane sulfonic acid (PFDS)	ND U	1.7	0.97	0.50	1	06/09/26 06:10	6/8/26	
Perfluorododecane sulfonic acid (PFDoS)	ND U	1.7	0.97	0.50	1	06/09/26 06:10	6/8/26	
Perfluoroalkyl Carboxylic Acids (PFCAs)								
Perfluorobutanoic acid (PFBA)	**1.5 J**	2.0	2.0	1.3	1	06/09/26 06:10	6/8/26	
Perfluoropentanoic acid (PFPeA)	**0.93 J**	1.7	1.0	0.50	1	06/09/26 06:10	6/8/26	
Perfluorohexanoic acid (PFHxA)	**0.98 J**	1.7	1.0	0.50	1	06/09/26 06:10	6/8/26	
Perfluoroheptanoic acid (PFHpA)	**0.90 J**	1.7	1.0	0.50	1	06/09/26 06:10	6/8/26	
Perfluorooctanoic acid (PFOA)	**3.3**	1.7	1.0	0.50	1	06/09/26 06:10	6/8/26	
Perfluorononanoic acid (PFNA)	**2.0**	1.7	1.0	0.50	1	06/09/26 06:10	6/8/26	
Perfluorodecanoic acid (PFDA)	**1.1 J**	1.7	1.0	0.75	1	06/09/26 06:10	6/8/26	
Perfluoroundecanoic acid (PFUnDA)	ND U	1.7	1.0	0.50	1	06/09/26 06:10	6/8/26	
Perfluorododecanoic acid (PFDOA)	ND U	1.7	1.0	0.50	1	06/09/26 06:10	6/8/26	
Perfluorotridecanoic acid (PFTrDA)	ND U	1.7	1.0	0.70	1	06/09/26 06:10	6/8/26	
Perfluorotetradecanoic acid (PFTDA)	ND U	1.7	1.0	0.50	1	06/09/26 06:10	6/8/26	
Perfluoroalkyl Sulfonamido Substances								
Perfluorooctane sulfonamide (PFOSAm)	ND U	1.7	1.0	0.50	1	06/09/26 06:10	6/8/26	
N-Methylperfluorooctane sulfonamide (MeFOSA)	ND U	1.7	1.0	0.50	1	06/09/26 06:10	6/8/26	
N-Ethylperfluorooctane sulfonamide (EtFOSAm)	ND U	1.7	1.0	0.50	1	06/09/26 06:10	6/8/26	
N-Methylperfluorooctane sulfonamido ethanol (MeFOSE)	ND U	1.7	1.0	0.53	1	06/09/26 06:10	6/8/26	
N-Ethylperfluorooctane sulfonamido ethanol (EtFOSE)	ND U	1.7	1.0	0.54	1	06/09/26 06:10	6/8/26	
N-Methylperfluorooctane sulfonamido acetic acid (NMeFOSAA)	ND U	1.7	1.0	0.50	1	06/09/26 06:10	6/8/26	
N-Ethylperfluorooctane sulfonamido acetic acid (NEtFOSAA)	ND U	1.7	1.0	0.61	1	06/09/26 06:10	6/8/26	

Analytical Report

Client:	ALS Environmental - Middletown	**Service Request:**	K2605119
Project:		**Date Collected:**	05/12/26 13:55
Sample Matrix:	Ground Water	**Date Received:**	05/20/26 10:45
Sample Name:	MW201-12052026	**Units:**	ng/L
Lab Code:	K2605119-006	**Basis:**	NA

Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: 1633
Prep Method: Method

Analyte Name	Result	LOQ	LOD	MDL	Dil.	Date Analyzed	Date Extracted	Q
Fluorotelomer Sulfonic Acids (FTSAs)								
1H, 1H, 2H, 2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND U	1.7	0.94	0.50	1	06/09/26 06:10	6/8/26	
1H, 1H, 2H, 2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND U	1.7	1.4	0.50	1	06/09/26 06:10	6/8/26	
1H, 1H, 2H, 2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND U	1.7	0.96	0.50	1	06/09/26 06:10	6/8/26	
Fluorotelomer Carboxylic Acids (FTCAs)								
4,4,5,5,6,6,6-Heptafluorohexanoic acid (3:3 FTCA)	ND U	17	10	4.2	1	06/09/26 06:10	6/8/26	
2H,2H,3H,3H-Perfluorooctanoic acid (5:3 FTCA)	ND U	17	10	8.2	1	06/09/26 06:10	6/8/26	
2H,2H,3H,3H-Perfluorodecanoic acid (7:3 FTCA)	ND U	17	10	7.0	1	06/09/26 06:10	6/8/26	
Perfluoroalkyl Ether Sulfonic Acids (PFESAs)								
Perfluoro(2-ethoxyethane) sulfonic acid (PFEESA)	ND U	1.7	0.89	0.50	1	06/09/26 06:10	6/8/26	
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)	ND U	1.7	0.93	0.50	1	06/09/26 06:10	6/8/26	
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	ND U	1.7	0.94	0.50	1	06/09/26 06:10	6/8/26	
Perfluoroalkyl Ether Carboxylic Acids (PFECAs)								
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND U	1.7	1.0	0.50	1	06/09/26 06:10	6/8/26	
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND U	1.7	1.0	0.50	1	06/09/26 06:10	6/8/26	
Hexafluoropropyleneoxide dimer acid (HFPO-DA) (GenX)	ND U	1.7	1.0	0.50	1	06/09/26 06:10	6/8/26	
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND U	1.7	1.0	0.50	1	06/09/26 06:10	6/8/26	
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	ND U	1.7	0.95	0.50	1	06/09/26 06:10	6/8/26	

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Analytical Report

Client:	ALS Environmental - Middletown	**Service Request:**	K2605119
Project:		**Date Collected:**	05/12/26 13:55
Sample Matrix:	Ground Water	**Date Received:**	05/20/26 10:45
Sample Name:	MW201-12052026	**Units:**	ng/L
Lab Code:	K2605119-006	**Basis:**	NA

Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: 1633
Prep Method: Method

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
13C3-PFBS	87	40 - 135	06/09/26 06:10	
13C3-PFHxS	80	40 - 130	06/09/26 06:10	
13C8-PFOS	76	40 - 130	06/09/26 06:10	
13C4-PFBA	84	5 - 130	06/09/26 06:10	
13C5-PFPeA	81	40 - 130	06/09/26 06:10	
13C5-PFHxA	83	40 - 130	06/09/26 06:10	
13C4-PFHpA	81	40 - 130	06/09/26 06:10	
13C8-PFOA	80	40 - 130	06/09/26 06:10	
13C9-PFNA	79	40 - 130	06/09/26 06:10	
13C6-PFDA	74	40 - 130	06/09/26 06:10	
13C7-PFUnDA	66	30 - 130	06/09/26 06:10	
13C2-PFDoDA	60	10 - 130	06/09/26 06:10	
13C2-PFTeDA	39	10 - 130	06/09/26 06:10	
13C8-FOSA	58	40 - 130	06/09/26 06:10	
D3-MeFOSA	56	10 - 130	06/09/26 06:10	
D5-EtFOSA	52	10 - 130	06/09/26 06:10	
D7-MeFOSE	51	10 - 130	06/09/26 06:10	
D9-EtFOSE	48	10 - 130	06/09/26 06:10	
D3-MeFOSAA	60	40 - 170	06/09/26 06:10	
D5-EtFOSAA	57	25 - 135	06/09/26 06:10	
13C2-4:2 FTS	97	40 - 200	06/09/26 06:10	
13C2-6:2 FTS	80	40 - 200	06/09/26 06:10	
13C2-8:2 FTS	73	40 - 300	06/09/26 06:10	
13C3-HFPO-DA	73	40 - 130	06/09/26 06:10	

Analytical Report

Client:	ALS Environmental - Middletown	**Service Request:**	K2605119
Project:		**Date Collected:**	05/12/26 14:12
Sample Matrix:	Sludge, Solid	**Date Received:**	05/20/26 10:45
Sample Name:	SS-HLLA1-O-12	**Units:**	ng/g
Lab Code:	K2605119-007	**Basis:**	Dry

Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: 1633
Prep Method: Method

Analyte Name	Result	LOQ	LOD	MDL	Dil.	Date Analyzed	Date Extracted	Q
Perfluoroalkyl Sulfonic Acids (PFSAs)								
Perfluorobutane sulfonic acid (PFBS)	ND U	0.10	0.045	0.026	1	06/10/26 16:50	6/2/26	
Perfluoropentane sulfonic acid (PFPeS)	ND U	0.10	0.048	0.026	1	06/10/26 16:50	6/2/26	
Perfluorohexane sulfonic acid (PFHxS)	**0.053 J**	0.10	0.046	0.026	1	06/10/26 16:50	6/2/26	
Perfluoroheptane sulfonic acid (PFHpS)	ND U	0.10	0.051	0.026	1	06/10/26 16:50	6/2/26	
Perfluorooctane sulfonic acid (PFOS)	**0.59**	0.10	0.047	0.026	1	06/10/26 16:50	6/2/26	
Perfluorononane sulfonic acid (PFNS)	ND U	0.10	0.049	0.026	1	06/10/26 16:50	6/2/26	
Perfluorodecane sulfonic acid (PFDS)	ND U	0.10	0.049	0.026	1	06/10/26 16:50	6/2/26	
Perfluorododecane sulfonic acid (PFDoS)	ND U	0.10	0.049	0.026	1	06/10/26 16:50	6/2/26	
Perfluoroalkyl Carboxylic Acids (PFCAs)								
Perfluorobutanoic acid (PFBA)	ND U	0.10	0.051	0.026	1	06/10/26 16:50	6/2/26	
Perfluoropentanoic acid (PFPeA)	**0.028 J**	0.10	0.051	0.026	1	06/10/26 16:50	6/2/26	
Perfluorohexanoic acid (PFHxA)	ND U	0.10	0.051	0.026	1	06/10/26 16:50	6/2/26	
Perfluoroheptanoic acid (PFHpA)	ND U	0.10	0.051	0.026	1	06/10/26 16:50	6/2/26	
Perfluorooctanoic acid (PFOA)	**0.048 J**	0.10	0.051	0.026	1	06/10/26 16:50	6/2/26	
Perfluorononanoic acid (PFNA)	**0.032 J**	0.10	0.051	0.026	1	06/10/26 16:50	6/2/26	
Perfluorodecanoic acid (PFDA)	ND U	0.10	0.051	0.026	1	06/10/26 16:50	6/2/26	
Perfluoroundecanoic acid (PFUnDA)	**0.11**	0.10	0.051	0.026	1	06/10/26 16:50	6/2/26	
Perfluorododecanoic acid (PFDOA)	**0.043 J**	0.10	0.051	0.026	1	06/10/26 16:50	6/2/26	
Perfluorotridecanoic acid (PFTrDA)	**0.037 J**	0.10	0.051	0.034	1	06/10/26 16:50	6/2/26	
Perfluorotetradecanoic acid (PFTDA)	**0.031 J**	0.10	0.051	0.026	1	06/10/26 16:50	6/2/26	
Perfluoroalkyl Sulfonamido Substances								
Perfluorooctane sulfonamide (PFOSAm)	ND U	0.10	0.051	0.026	1	06/10/26 16:50	6/2/26	
N-Methylperfluorooctane sulfonamide (MeFOSA)	ND U	0.10	0.051	0.026	1	06/10/26 16:50	6/2/26	
N-Ethylperfluorooctane sulfonamide (EtFOSAm)	ND U	0.10	0.051	0.026	1	06/10/26 16:50	6/2/26	
N-Methylperfluorooctane sulfonamido ethanol (MeFOSE)	ND U	0.10	0.10	0.055	1	06/10/26 16:50	6/2/26	
N-Ethylperfluorooctane sulfonamido ethanol (EtFOSE)	ND U	0.10	0.051	0.026	1	06/10/26 16:50	6/2/26	
N-Methylperfluorooctane sulfonamido acetic acid (NMeFOSAA)	ND U	0.10	0.051	0.026	1	06/10/26 16:50	6/2/26	
N-Ethylperfluorooctane sulfonamido acetic acid (NEtFOSAA)	ND U	0.10	0.051	0.026	1	06/10/26 16:50	6/2/26	

Client:	ALS Environmental - Middletown	**Service Request:**	K2605119
Project:		**Date Collected:**	05/12/26 14:12
Sample Matrix:	Sludge, Solid	**Date Received:**	05/20/26 10:45
Sample Name:	SS-HLLA1-O-12	**Units:**	ng/g
Lab Code:	K2605119-007	**Basis:**	Dry

Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: 1633
Prep Method: Method

Analyte Name	Result	LOQ	LOD	MDL	Dil.	Date Analyzed	Date Extracted	Q
Fluorotelomer Sulfonic Acids (FTSAs)								
1H, 1H, 2H, 2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND U	0.10	0.048	0.026	1	06/10/26 16:50	6/2/26	
1H, 1H, 2H, 2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND U	0.10	0.048	0.026	1	06/10/26 16:50	6/2/26	
1H, 1H, 2H, 2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND U	0.10	0.049	0.026	1	06/10/26 16:50	6/2/26	
Fluorotelomer Carboxylic Acids (FTCAs)								
4,4,5,5,6,6,6-Heptafluorohexanoic acid (3:3 FTCA)	ND U	1.0	0.51	0.17	1	06/10/26 16:50	6/2/26	
2H,2H,3H,3H-Perfluorooctanoic acid (5:3 FTCA)	ND U	1.0	0.51	0.32	1	06/10/26 16:50	6/2/26	
2H,2H,3H,3H-Perfluorodecanoic acid (7:3 FTCA)	ND U	1.0	0.51	0.34	1	06/10/26 16:50	6/2/26	
Perfluoroalkyl Ether Sulfonic Acids (PFESAs)								
Perfluoro(2-ethoxyethane) sulfonic acid (PFEESA)	ND U	0.10	0.048	0.026	1	06/10/26 16:50	6/2/26	
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)	ND U	0.10	0.047	0.026	1	06/10/26 16:50	6/2/26	
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	ND U	0.10	0.048	0.026	1	06/10/26 16:50	6/2/26	
Perfluoroalkyl Ether Carboxylic Acids (PFECAs)								
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND U	0.10	0.051	0.026	1	06/10/26 16:50	6/2/26	
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND U	0.10	0.051	0.026	1	06/10/26 16:50	6/2/26	
Hexafluoropropyleneoxide dimer acid (HFPO-DA) (GenX)	ND U	0.10	0.051	0.026	1	06/10/26 16:50	6/2/26	
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND U	0.10	0.051	0.026	1	06/10/26 16:50	6/2/26	
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	ND U	0.10	0.048	0.026	1	06/10/26 16:50	6/2/26	

Analytical Report

Client:	ALS Environmental - Middletown	**Service Request:**	K2605119
Project:		**Date Collected:**	05/12/26 14:12
Sample Matrix:	Sludge, Solid	**Date Received:**	05/20/26 10:45
Sample Name:	SS-HLLA1-O-12	**Units:**	ng/g
Lab Code:	K2605119-007	**Basis:**	Dry

Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: 1633
Prep Method: Method

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
13C3-PFBS	83	40 - 135	06/10/26 16:50	
13C3-PFHxS	81	40 - 130	06/10/26 16:50	
13C8-PFOS	81	40 - 130	06/10/26 16:50	
13C4-PFBA	86	8 - 130	06/10/26 16:50	
13C5-PFPeA	86	35 - 130	06/10/26 16:50	
13C5-PFHxA	85	40 - 130	06/10/26 16:50	
13C4-PFHpA	83	40 - 130	06/10/26 16:50	
13C8-PFOA	82	40 - 130	06/10/26 16:50	
13C9-PFNA	83	40 - 130	06/10/26 16:50	
13C6-PFDA	84	40 - 130	06/10/26 16:50	
13C7-PFUnDA	86	40 - 130	06/10/26 16:50	
13C2-PFDoDA	82	40 - 130	06/10/26 16:50	
13C2-PFTeDA	41	20 - 130	06/10/26 16:50	
13C8-FOSA	64	40 - 130	06/10/26 16:50	
D3-MeFOSA	38	10 - 130	06/10/26 16:50	
D5-EtFOSA	29	10 - 130	06/10/26 16:50	
D7-MeFOSE	49	20 - 130	06/10/26 16:50	
D9-EtFOSE	39	15 - 130	06/10/26 16:50	
D3-MeFOSAA	88	40 - 135	06/10/26 16:50	
D5-EtFOSAA	99	40 - 150	06/10/26 16:50	
13C2-4:2 FTS	117	40 - 165	06/10/26 16:50	
13C2-6:2 FTS	123	40 - 215	06/10/26 16:50	
13C2-8:2 FTS	115	40 - 275	06/10/26 16:50	
13C3-HFPO-DA	70	40 - 130	06/10/26 16:50	

Analytical Report

Client:	ALS Environmental - Middletown	**Service Request:**	K2605119
Project:		**Date Collected:**	05/12/26 14:39
Sample Matrix:	Sludge, Solid	**Date Received:**	05/20/26 10:45
Sample Name:	SS-HLLA2-O-12	**Units:**	ng/g
Lab Code:	K2605119-008	**Basis:**	Dry

Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: 1633
Prep Method: Method

Analyte Name	Result	LOQ	LOD	MDL	Dil.	Date Analyzed	Date Extracted	Q
Perfluoroalkyl Sulfonic Acids (PFSAs)								
Perfluorobutane sulfonic acid (PFBS)	**0.028 J**	0.086	0.045	0.025	1	06/10/26 18:11	6/2/26	
Perfluoropentane sulfonic acid (PFPeS)	**0.033 J**	0.086	0.047	0.025	1	06/10/26 18:11	6/2/26	
Perfluorohexane sulfonic acid (PFHxS)	**0.88**	0.086	0.046	0.025	1	06/10/26 18:11	6/2/26	
Perfluoroheptane sulfonic acid (PFHpS)	**0.032 J**	0.086	0.050	0.025	1	06/10/26 18:11	6/2/26	
Perfluorooctane sulfonic acid (PFOS)	**5.9**	0.086	0.047	0.025	1	06/10/26 18:11	6/2/26	
Perfluorononane sulfonic acid (PFNS)	ND U	0.086	0.048	0.025	1	06/10/26 18:11	6/2/26	
Perfluorodecane sulfonic acid (PFDS)	ND U	0.086	0.049	0.025	1	06/10/26 18:11	6/2/26	
Perfluorododecane sulfonic acid (PFDoS)	ND U	0.086	0.049	0.025	1	06/10/26 18:11	6/2/26	
Perfluoroalkyl Carboxylic Acids (PFCAs)								
Perfluorobutanoic acid (PFBA)	**0.20**	0.086	0.050	0.025	1	06/10/26 18:11	6/2/26	
Perfluoropentanoic acid (PFPeA)	**0.19**	0.086	0.050	0.025	1	06/10/26 18:11	6/2/26	
Perfluorohexanoic acid (PFHxA)	**0.17**	0.086	0.050	0.025	1	06/10/26 18:11	6/2/26	
Perfluoroheptanoic acid (PFHpA)	**0.14**	0.086	0.050	0.025	1	06/10/26 18:11	6/2/26	
Perfluorooctanoic acid (PFOA)	**0.46**	0.086	0.050	0.025	1	06/10/26 18:11	6/2/26	
Perfluorononanoic acid (PFNA)	**0.49**	0.086	0.050	0.025	1	06/10/26 18:11	6/2/26	
Perfluorodecanoic acid (PFDA)	**0.41**	0.086	0.050	0.025	1	06/10/26 18:11	6/2/26	
Perfluoroundecanoic acid (PFUnDA)	**0.55**	0.086	0.050	0.025	1	06/10/26 18:11	6/2/26	
Perfluorododecanoic acid (PFDOA)	**0.17**	0.086	0.050	0.025	1	06/10/26 18:11	6/2/26	
Perfluorotridecanoic acid (PFTrDA)	**0.12**	0.086	0.050	0.033	1	06/10/26 18:11	6/2/26	
Perfluorotetradecanoic acid (PFTDA)	**0.058 J**	0.086	0.050	0.025	1	06/10/26 18:11	6/2/26	
Perfluoroalkyl Sulfonamido Substances								
Perfluorooctane sulfonamide (PFOSAm)	**0.19**	0.086	0.050	0.025	1	06/10/26 18:11	6/2/26	
N-Methylperfluorooctane sulfonamide (MeFOSA)	ND U	0.086	0.050	0.025	1	06/10/26 18:11	6/2/26	
N-Ethylperfluorooctane sulfonamide (EtFOSAm)	ND U	0.086	0.050	0.025	1	06/10/26 18:11	6/2/26	
N-Methylperfluorooctane sulfonamido ethanol (MeFOSE)	ND U	0.10	0.10	0.054	1	06/10/26 18:11	6/2/26	
N-Ethylperfluorooctane sulfonamido ethanol (EtFOSE)	ND U	0.086	0.050	0.025	1	06/10/26 18:11	6/2/26	
N-Methylperfluorooctane sulfonamido acetic acid (NMeFOSAA)	ND U	0.086	0.050	0.025	1	06/10/26 18:11	6/2/26	
N-Ethylperfluorooctane sulfonamido acetic acid (NEtFOSAA)	ND U	0.086	0.050	0.025	1	06/10/26 18:11	6/2/26	

Analytical Report

Client:	ALS Environmental - Middletown	**Service Request:**	K2605119
Project:		**Date Collected:**	05/12/26 14:39
Sample Matrix:	Sludge, Solid	**Date Received:**	05/20/26 10:45
Sample Name:	SS-HLLA2-O-12	**Units:**	ng/g
Lab Code:	K2605119-008	**Basis:**	Dry

Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: 1633
Prep Method: Method

Analyte Name	Result	LOQ	LOD	MDL	Dil.	Date Analyzed	Date Extracted	Q
Fluorotelomer Sulfonic Acids (FTSAs)								
1H, 1H, 2H, 2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND U	0.086	0.047	0.025	1	06/10/26 18:11	6/2/26	
1H, 1H, 2H, 2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND U	0.086	0.048	0.025	1	06/10/26 18:11	6/2/26	
1H, 1H, 2H, 2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND U	0.086	0.048	0.025	1	06/10/26 18:11	6/2/26	
Fluorotelomer Carboxylic Acids (FTCAs)								
4,4,5,5,6,6,6-Heptafluorohexanoic acid (3:3 FTCA)	ND U	0.86	0.50	0.17	1	06/10/26 18:11	6/2/26	
2H,2H,3H,3H-Perfluorooctanoic acid (5:3 FTCA)	ND U	0.86	0.50	0.32	1	06/10/26 18:11	6/2/26	
2H,2H,3H,3H-Perfluorodecanoic acid (7:3 FTCA)	ND U	0.86	0.50	0.34	1	06/10/26 18:11	6/2/26	
Perfluoroalkyl Ether Sulfonic Acids (PFESAs)								
Perfluoro(2-ethoxyethane) sulfonic acid (PFEESA)	ND U	0.086	0.047	0.025	1	06/10/26 18:11	6/2/26	
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)	ND U	0.086	0.047	0.025	1	06/10/26 18:11	6/2/26	
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	ND U	0.086	0.047	0.025	1	06/10/26 18:11	6/2/26	*
Perfluoroalkyl Ether Carboxylic Acids (PFECAs)								
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND U	0.086	0.050	0.025	1	06/10/26 18:11	6/2/26	
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND U	0.086	0.050	0.025	1	06/10/26 18:11	6/2/26	
Hexafluoropropyleneoxide dimer acid (HFPO-DA) (GenX)	ND U	0.086	0.050	0.025	1	06/10/26 18:11	6/2/26	
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND U	0.086	0.050	0.025	1	06/10/26 18:11	6/2/26	
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	ND U	0.086	0.048	0.025	1	06/10/26 18:11	6/2/26	

Analytical Report

Client:	ALS Environmental - Middletown	**Service Request:**	K2605119
Project:		**Date Collected:**	05/12/26 14:39
Sample Matrix:	Sludge, Solid	**Date Received:**	05/20/26 10:45
Sample Name:	SS-HLLA2-O-12	**Units:**	ng/g
Lab Code:	K2605119-008	**Basis:**	Dry

Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: 1633
Prep Method: Method

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
13C3-PFBS	80	40 - 135	06/10/26 18:11	
13C3-PFHxS	74	40 - 130	06/10/26 18:11	
13C8-PFOS	76	40 - 130	06/10/26 18:11	
13C4-PFBA	78	8 - 130	06/10/26 18:11	
13C5-PFPeA	79	35 - 130	06/10/26 18:11	
13C5-PFHxA	76	40 - 130	06/10/26 18:11	
13C4-PFHpA	73	40 - 130	06/10/26 18:11	
13C8-PFOA	74	40 - 130	06/10/26 18:11	
13C9-PFNA	75	40 - 130	06/10/26 18:11	
13C6-PFDA	74	40 - 130	06/10/26 18:11	
13C7-PFUnDA	76	40 - 130	06/10/26 18:11	
13C2-PFDoDA	76	40 - 130	06/10/26 18:11	
13C2-PFTeDA	49	20 - 130	06/10/26 18:11	
13C8-FOSA	69	40 - 130	06/10/26 18:11	
D3-MeFOSA	44	10 - 130	06/10/26 18:11	
D5-EtFOSA	35	10 - 130	06/10/26 18:11	
D7-MeFOSE	50	20 - 130	06/10/26 18:11	
D9-EtFOSE	41	15 - 130	06/10/26 18:11	
D3-MeFOSAA	86	40 - 135	06/10/26 18:11	
D5-EtFOSAA	106	40 - 150	06/10/26 18:11	
13C2-4:2 FTS	143	40 - 165	06/10/26 18:11	
13C2-6:2 FTS	127	40 - 215	06/10/26 18:11	
13C2-8:2 FTS	123	40 - 275	06/10/26 18:11	
13C3-HFPO-DA	64	40 - 130	06/10/26 18:11	

Analytical Report

Client:	ALS Environmental - Middletown	**Service Request:**	K2605119
Project:		**Date Collected:**	NA
Sample Matrix:	Sludge, Solid	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ng/g
Lab Code:	KQ2607853-04	**Basis:**	Dry

Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: 1633
Prep Method: Method

Analyte Name	Result	LOQ	LOD	MDL	Dil.	Date Analyzed	Date Extracted	Q
Perfluoroalkyl Sulfonic Acids (PFSAs)								
Perfluorobutane sulfonic acid (PFBS)	ND U	0.10	0.045	0.025	1	06/09/26 10:11	6/2/26	
Perfluoropentane sulfonic acid (PFPeS)	ND U	0.10	0.047	0.025	1	06/09/26 10:11	6/2/26	
Perfluorohexane sulfonic acid (PFHxS)	ND U	0.10	0.046	0.025	1	06/09/26 10:11	6/2/26	
Perfluoroheptane sulfonic acid (PFHpS)	ND U	0.10	0.050	0.025	1	06/09/26 10:11	6/2/26	
Perfluorooctane sulfonic acid (PFOS)	ND U	0.10	0.047	0.025	1	06/09/26 10:11	6/2/26	
Perfluorononane sulfonic acid (PFNS)	ND U	0.10	0.048	0.025	1	06/09/26 10:11	6/2/26	
Perfluorodecane sulfonic acid (PFDS)	ND U	0.10	0.049	0.025	1	06/09/26 10:11	6/2/26	
Perfluorododecane sulfonic acid (PFDoS)	ND U	0.10	0.049	0.025	1	06/09/26 10:11	6/2/26	
Perfluoroalkyl Carboxylic Acids (PFCAs)								
Perfluorobutanoic acid (PFBA)	ND U	0.10	0.050	0.025	1	06/09/26 10:11	6/2/26	
Perfluoropentanoic acid (PFPeA)	ND U	0.10	0.050	0.025	1	06/09/26 10:11	6/2/26	
Perfluorohexanoic acid (PFHxA)	ND U	0.10	0.050	0.025	1	06/09/26 10:11	6/2/26	
Perfluoroheptanoic acid (PFHpA)	ND U	0.10	0.050	0.025	1	06/09/26 10:11	6/2/26	
Perfluorooctanoic acid (PFOA)	ND U	0.10	0.050	0.025	1	06/09/26 10:11	6/2/26	
Perfluorononanoic acid (PFNA)	ND U	0.10	0.050	0.025	1	06/09/26 10:11	6/2/26	
Perfluorodecanoic acid (PFDA)	ND U	0.10	0.050	0.025	1	06/09/26 10:11	6/2/26	
Perfluoroundecanoic acid (PFUnDA)	ND U	0.10	0.050	0.025	1	06/09/26 10:11	6/2/26	
Perfluorododecanoic acid (PFDOA)	ND U	0.10	0.050	0.025	1	06/09/26 10:11	6/2/26	
Perfluorotridecanoic acid (PFTrDA)	ND U	0.10	0.050	0.033	1	06/09/26 10:11	6/2/26	
Perfluorotetradecanoic acid (PFTDA)	ND U	0.10	0.050	0.025	1	06/09/26 10:11	6/2/26	
Perfluoroalkyl Sulfonamido Substances								
Perfluorooctane sulfonamide (PFOSAm)	**0.036 J**	0.10	0.050	0.025	1	06/09/26 10:11	6/2/26	
N-Methylperfluorooctane sulfonamide (MeFOSA)	ND U	0.10	0.050	0.025	1	06/09/26 10:11	6/2/26	
N-Ethylperfluorooctane sulfonamide (EtFOSAm)	ND U	0.10	0.050	0.025	1	06/09/26 10:11	6/2/26	
N-Methylperfluorooctane sulfonamido ethanol (MeFOSE)	ND U	0.10	0.10	0.054	1	06/09/26 10:11	6/2/26	
N-Ethylperfluorooctane sulfonamido ethanol (EtFOSE)	ND U	0.10	0.050	0.025	1	06/09/26 10:11	6/2/26	
N-Methylperfluorooctane sulfonamido acetic acid (NMeFOSAA)	ND U	0.10	0.050	0.025	1	06/09/26 10:11	6/2/26	
N-Ethylperfluorooctane sulfonamido acetic acid (NEtFOSAA)	ND U	0.10	0.050	0.025	1	06/09/26 10:11	6/2/26	

Client:	ALS Environmental - Middletown	**Service Request:**	K2605119
Project:		**Date Collected:**	NA
Sample Matrix:	Sludge, Solid	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ng/g
Lab Code:	KQ2607853-04	**Basis:**	Dry

Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: 1633
Prep Method: Method

Analyte Name	Result	LOQ	LOD	MDL	Dil.	Date Analyzed	Date Extracted	Q
Fluorotelomer Sulfonic Acids (FTSAs)								
1H, 1H, 2H, 2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND U	0.10	0.047	0.025	1	06/09/26 10:11	6/2/26	
1H, 1H, 2H, 2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND U	0.10	0.048	0.025	1	06/09/26 10:11	6/2/26	
1H, 1H, 2H, 2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND U	0.10	0.048	0.025	1	06/09/26 10:11	6/2/26	
Fluorotelomer Carboxylic Acids (FTCAs)								
4,4,5,5,6,6,6-Heptafluorohexanoic acid (3:3 FTCA)	ND U	1.0	0.50	0.17	1	06/09/26 10:11	6/2/26	
2H,2H,3H,3H-Perfluorooctanoic acid (5:3 FTCA)	ND U	1.0	0.50	0.32	1	06/09/26 10:11	6/2/26	
2H,2H,3H,3H-Perfluorodecanoic acid (7:3 FTCA)	ND U	1.0	0.50	0.34	1	06/09/26 10:11	6/2/26	
Perfluoroalkyl Ether Sulfonic Acids (PFESAs)								
Perfluoro(2-ethoxyethane) sulfonic acid (PFEESA)	ND U	0.10	0.047	0.025	1	06/09/26 10:11	6/2/26	
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)	ND U	0.10	0.047	0.025	1	06/09/26 10:11	6/2/26	
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	ND U	0.10	0.047	0.025	1	06/09/26 10:11	6/2/26	
Perfluoroalkyl Ether Carboxylic Acids (PFECAs)								
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND U	0.10	0.050	0.025	1	06/09/26 10:11	6/2/26	
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND U	0.10	0.050	0.025	1	06/09/26 10:11	6/2/26	
Hexafluoropropyleneoxide dimer acid (HFPO-DA) (GenX)	ND U	0.10	0.050	0.025	1	06/09/26 10:11	6/2/26	
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND U	0.10	0.050	0.025	1	06/09/26 10:11	6/2/26	
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	ND U	0.10	0.048	0.025	1	06/09/26 10:11	6/2/26	

Analytical Report

Client:	ALS Environmental - Middletown	**Service Request:**	K2605119
Project:		**Date Collected:**	NA
Sample Matrix:	Sludge, Solid	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ng/g
Lab Code:	KQ2607853-04	**Basis:**	Dry

Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: 1633
Prep Method: Method

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
13C3-PFBS	83	40 - 135	06/09/26 10:11	
13C3-PFHxS	80	40 - 130	06/09/26 10:11	
13C8-PFOS	80	40 - 130	06/09/26 10:11	
13C4-PFBA	82	8 - 130	06/09/26 10:11	
13C5-PFPeA	82	35 - 130	06/09/26 10:11	
13C5-PFHxA	81	40 - 130	06/09/26 10:11	
13C4-PFHpA	77	40 - 130	06/09/26 10:11	
13C8-PFOA	80	40 - 130	06/09/26 10:11	
13C9-PFNA	80	40 - 130	06/09/26 10:11	
13C6-PFDA	79	40 - 130	06/09/26 10:11	
13C7-PFUnDA	83	40 - 130	06/09/26 10:11	
13C2-PFDoDA	78	40 - 130	06/09/26 10:11	
13C2-PFTeDA	71	20 - 130	06/09/26 10:11	
13C8-FOSA	67	40 - 130	06/09/26 10:11	
D3-MeFOSA	56	10 - 130	06/09/26 10:11	
D5-EtFOSA	53	10 - 130	06/09/26 10:11	
D7-MeFOSE	65	20 - 130	06/09/26 10:11	
D9-EtFOSE	64	15 - 130	06/09/26 10:11	
D3-MeFOSAA	74	40 - 135	06/09/26 10:11	
D5-EtFOSAA	88	40 - 150	06/09/26 10:11	
13C2-4:2 FTS	94	40 - 165	06/09/26 10:11	
13C2-6:2 FTS	90	40 - 215	06/09/26 10:11	
13C2-8:2 FTS	94	40 - 275	06/09/26 10:11	
13C3-HFPO-DA	68	40 - 130	06/09/26 10:11	

Analytical Report

Client:	ALS Environmental - Middletown	**Service Request:**	K2605119
Project:		**Date Collected:**	NA
Sample Matrix:	Ground Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ng/L
Lab Code:	KQ2609181-04	**Basis:**	NA

Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: 1633
Prep Method: Method

Analyte Name	Result	LOQ	LOD	MDL	Dil.	Date Analyzed	Date Extracted	Q
Perfluoroalkyl Sulfonic Acids (PFSAs)								
Perfluorobutane sulfonic acid (PFBS)	ND U	2.0	0.89	0.84	1	06/08/26 22:05	6/8/26	
Perfluoropentane sulfonic acid (PFPeS)	ND U	2.0	0.94	0.50	1	06/08/26 22:05	6/8/26	
Perfluorohexane sulfonic acid (PFHxS)	ND U	2.0	0.91	0.53	1	06/08/26 22:05	6/8/26	
Perfluoroheptane sulfonic acid (PFHpS)	ND U	2.0	0.95	0.50	1	06/08/26 22:05	6/8/26	
Perfluorooctane sulfonic acid (PFOS)	ND U	2.0	0.93	0.50	1	06/08/26 22:05	6/8/26	
Perfluorononane sulfonic acid (PFNS)	ND U	2.0	0.96	0.50	1	06/08/26 22:05	6/8/26	
Perfluorodecane sulfonic acid (PFDS)	ND U	2.0	0.97	0.50	1	06/08/26 22:05	6/8/26	
Perfluorododecane sulfonic acid (PFDoS)	ND U	2.0	0.97	0.50	1	06/08/26 22:05	6/8/26	
Perfluoroalkyl Carboxylic Acids (PFCAs)								
Perfluorobutanoic acid (PFBA)	ND U	2.0	2.0	1.3	1	06/08/26 22:05	6/8/26	
Perfluoropentanoic acid (PFPeA)	ND U	2.0	1.0	0.50	1	06/08/26 22:05	6/8/26	
Perfluorohexanoic acid (PFHxA)	ND U	2.0	1.0	0.50	1	06/08/26 22:05	6/8/26	
Perfluoroheptanoic acid (PFHpA)	ND U	2.0	1.0	0.50	1	06/08/26 22:05	6/8/26	
Perfluorooctanoic acid (PFOA)	ND U	2.0	1.0	0.50	1	06/08/26 22:05	6/8/26	
Perfluorononanoic acid (PFNA)	ND U	2.0	1.0	0.50	1	06/08/26 22:05	6/8/26	
Perfluorodecanoic acid (PFDA)	ND U	2.0	1.0	0.75	1	06/08/26 22:05	6/8/26	
Perfluoroundecanoic acid (PFUnDA)	ND U	2.0	1.0	0.50	1	06/08/26 22:05	6/8/26	
Perfluorododecanoic acid (PFDOA)	ND U	2.0	1.0	0.50	1	06/08/26 22:05	6/8/26	
Perfluorotridecanoic acid (PFTrDA)	ND U	2.0	1.0	0.70	1	06/08/26 22:05	6/8/26	
Perfluorotetradecanoic acid (PFTDA)	ND U	2.0	1.0	0.50	1	06/08/26 22:05	6/8/26	
Perfluoroalkyl Sulfonamido Substances								
Perfluorooctane sulfonamide (PFOSAm)	ND U	2.0	1.0	0.50	1	06/08/26 22:05	6/8/26	
N-Methylperfluorooctane sulfonamide (MeFOSA)	ND U	2.0	1.0	0.50	1	06/08/26 22:05	6/8/26	
N-Ethylperfluorooctane sulfonamide (EtFOSAm)	ND U	2.0	1.0	0.50	1	06/08/26 22:05	6/8/26	
N-Methylperfluorooctane sulfonamido ethanol (MeFOSE)	ND U	2.0	1.0	0.53	1	06/08/26 22:05	6/8/26	
N-Ethylperfluorooctane sulfonamido ethanol (EtFOSE)	ND U	2.0	1.0	0.54	1	06/08/26 22:05	6/8/26	
N-Methylperfluorooctane sulfonamido acetic acid (NMeFOSAA)	ND U	2.0	1.0	0.50	1	06/08/26 22:05	6/8/26	
N-Ethylperfluorooctane sulfonamido acetic acid (NEtFOSAA)	ND U	2.0	1.0	0.61	1	06/08/26 22:05	6/8/26	

Analytical Report

Client:	ALS Environmental - Middletown	**Service Request:**	K2605119
Project:		**Date Collected:**	NA
Sample Matrix:	Ground Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ng/L
Lab Code:	KQ2609181-04	**Basis:**	NA

Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: 1633
Prep Method: Method

Analyte Name	Result	LOQ	LOD	MDL	Dil.	Date Analyzed	Date Extracted	Q
Fluorotelomer Sulfonic Acids (FTSAs)								
1H, 1H, 2H, 2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND U	2.0	0.94	0.50	1	06/08/26 22:05	6/8/26	
1H, 1H, 2H, 2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND U	2.0	1.4	0.50	1	06/08/26 22:05	6/8/26	
1H, 1H, 2H, 2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND U	2.0	0.96	0.50	1	06/08/26 22:05	6/8/26	
Fluorotelomer Carboxylic Acids (FTCAs)								
4,4,5,5,6,6,6-Heptafluorohexanoic acid (3:3 FTCA)	ND U	20	10	4.2	1	06/08/26 22:05	6/8/26	
2H,2H,3H,3H-Perfluorooctanoic acid (5:3 FTCA)	ND U	20	10	8.2	1	06/08/26 22:05	6/8/26	
2H,2H,3H,3H-Perfluorodecanoic acid (7:3 FTCA)	ND U	20	10	7.0	1	06/08/26 22:05	6/8/26	
Perfluoroalkyl Ether Sulfonic Acids (PFESAs)								
Perfluoro(2-ethoxyethane) sulfonic acid (PFEESA)	ND U	2.0	0.89	0.50	1	06/08/26 22:05	6/8/26	
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)	ND U	2.0	0.93	0.50	1	06/08/26 22:05	6/8/26	
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	ND U	2.0	0.94	0.50	1	06/08/26 22:05	6/8/26	
Perfluoroalkyl Ether Carboxylic Acids (PFECAs)								
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND U	2.0	1.0	0.50	1	06/08/26 22:05	6/8/26	
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND U	2.0	1.0	0.50	1	06/08/26 22:05	6/8/26	
Hexafluoropropyleneoxide dimer acid (HFPO-DA) (GenX)	ND U	2.0	1.0	0.50	1	06/08/26 22:05	6/8/26	
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND U	2.0	1.0	0.50	1	06/08/26 22:05	6/8/26	
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	ND U	2.0	0.95	0.50	1	06/08/26 22:05	6/8/26	

Analytical Report

Client:	ALS Environmental - Middletown	**Service Request:**	K2605119
Project:		**Date Collected:**	NA
Sample Matrix:	Ground Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ng/L
Lab Code:	KQ2609181-04	**Basis:**	NA

Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: 1633
Prep Method: Method

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
13C3-PFBS	88	40 - 135	06/08/26 22:05	
13C3-PFHxS	85	40 - 130	06/08/26 22:05	
13C8-PFOS	83	40 - 130	06/08/26 22:05	
13C4-PFBA	90	5 - 130	06/08/26 22:05	
13C5-PFPeA	89	40 - 130	06/08/26 22:05	
13C5-PFHxA	87	40 - 130	06/08/26 22:05	
13C4-PFHpA	86	40 - 130	06/08/26 22:05	
13C8-PFOA	84	40 - 130	06/08/26 22:05	
13C9-PFNA	85	40 - 130	06/08/26 22:05	
13C6-PFDA	83	40 - 130	06/08/26 22:05	
13C7-PFUnDA	78	30 - 130	06/08/26 22:05	
13C2-PFDoDA	76	10 - 130	06/08/26 22:05	
13C2-PFTeDA	74	10 - 130	06/08/26 22:05	
13C8-FOSA	67	40 - 130	06/08/26 22:05	
D3-MeFOSA	68	10 - 130	06/08/26 22:05	
D5-EtFOSA	66	10 - 130	06/08/26 22:05	
D7-MeFOSE	64	10 - 130	06/08/26 22:05	
D9-EtFOSE	64	10 - 130	06/08/26 22:05	
D3-MeFOSAA	72	40 - 170	06/08/26 22:05	
D5-EtFOSAA	74	25 - 135	06/08/26 22:05	
13C2-4:2 FTS	84	40 - 200	06/08/26 22:05	
13C2-6:2 FTS	89	40 - 200	06/08/26 22:05	
13C2-8:2 FTS	91	40 - 300	06/08/26 22:05	
13C3-HFPO-DA	78	40 - 130	06/08/26 22:05	

Client: ALS Environmental - Middletown **Service Request:** K2605119
Project: /40-3458226
Sample Matrix: Ground Water

SURROGATE RECOVERY SUMMARY
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: 1633
Extraction Method: Method

Surrogate	Control Limits	MW702-12052026 K2605119-001	MW701-12052026 K2605119-002	MW301-12052026 K2605119-003
13C3-PFBS	40-135	79	102	87
13C3-PFHxS	40-130	69	88	78
13C8-PFOS	40-130	65	90	75
13C4-PFBA	5-130	76	97	85
13C5-PFPeA	40-130	74	90	83
13C5-PFHxA	40-130	73	93	82
13C4-PFHpA	40-130	67	89	77
13C8-PFOA	40-130	68	89	79
13C9-PFNA	40-130	67	90	76
13C6-PFDA	40-130	62	85	74
13C7-PFUnDA	30-130	55	78	67
13C2-PFDoDA	10-130	50	71	59
13C2-PFTeDA	10-130	47	62	54
13C8-FOSA	40-130	50	68	58
D3-MeFOSA	10-130	51	70	56
D5-EtFOSA	10-130	51	68	57
D7-MeFOSE	10-130	44	63	53
D9-EtFOSE	10-130	42	61	52
D3-MeFOSAA	40-170	51	70	62
D5-EtFOSAA	25-135	49	70	60
13C2-4:2 FTS	40-200	75	104	81
13C2-6:2 FTS	40-200	69	87	80
13C2-8:2 FTS	40-300	66	91	81
13C3-HFPO-DA	40-130	64	82	72

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with an pound (#) indicate the control criteria is not acceptable.

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: ALS Environmental - Middletown **Service Request:** K2605119
Project: /40-3458226
Sample Matrix: Ground Water

SURROGATE RECOVERY SUMMARY
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: 1633
Extraction Method: Method

Surrogate	Control Limits	MW601-12052026 K2605119-004	MW602-12052026 K2605119-005	MW201-12052026 K2605119-006
13C3-PFBS	40-135	87	83	87
13C3-PFHxS	40-130	82	79	80
13C8-PFOS	40-130	80	76	76
13C4-PFBA	5-130	87	83	84
13C5-PFPeA	40-130	84	83	81
13C5-PFHxA	40-130	85	80	83
13C4-PFHpA	40-130	81	77	81
13C8-PFOA	40-130	82	78	80
13C9-PFNA	40-130	83	77	79
13C6-PFDA	40-130	81	77	74
13C7-PFUnDA	30-130	76	73	66
13C2-PFDoDA	10-130	70	67	60
13C2-PFTeDA	10-130	69	66	39
13C8-FOSA	40-130	64	61	58
D3-MeFOSA	10-130	62	63	56
D5-EtFOSA	10-130	60	63	52
D7-MeFOSE	10-130	64	61	51
D9-EtFOSE	10-130	65	62	48
D3-MeFOSAA	40-170	68	65	60
D5-EtFOSAA	25-135	67	64	57
13C2-4:2 FTS	40-200	81	77	97
13C2-6:2 FTS	40-200	85	79	80
13C2-8:2 FTS	40-300	91	85	73
13C3-HFPO-DA	40-130	76	71	73

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with an pound (#) indicate the control criteria is not acceptable.

Client: ALS Environmental - Middletown **Service Request:** K2605119
Project: /40-3458226
Sample Matrix: Ground Water

SURROGATE RECOVERY SUMMARY
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: 1633
Extraction Method: Method

Surrogate	Control Limits	Method Blank KQ2609181-04	Lab Control Sample KQ2607853-02	Lab Control Sample KQ2609181-02
13C3-PFBS	40-135	88		86
13C3-PFHxS	40-130	85		79
13C8-PFOS	40-130	83		81
13C4-PFBA	5-130	90		86
13C5-PFPeA	40-130	89		85
13C5-PFHxA	40-130	87		83
13C4-PFHpA	40-130	86		79
13C8-PFOA	40-130	84		82
13C9-PFNA	40-130	85		79
13C6-PFDA	40-130	83		81
13C7-PFUnDA	30-130	78		76
13C2-PFDoDA	10-130	76		71
13C2-PFTeDA	10-130	74		66
13C8-FOSA	40-130	67		63
D3-MeFOSA	10-130	68		67
D5-EtFOSA	10-130	66		68
D7-MeFOSE	10-130	64		66
D9-EtFOSE	10-130	64		68
D3-MeFOSAA	40-170	72		75
D5-EtFOSAA	25-135	74		72
13C2-4:2 FTS	40-200	84		88
13C2-6:2 FTS	40-200	89		92
13C2-8:2 FTS	40-300	91		95
13C3-HFPO-DA	40-130	78		75

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with an pound (#) indicate the control criteria is not acceptable.

Client: ALS Environmental - Middletown **Service Request:** K2605119
Project: /40-3458226
Sample Matrix: Ground Water

SURROGATE RECOVERY SUMMARY
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: 1633
Extraction Method: Method

Surrogate	Control Limits	Low Level Lab Control Sample KQ2607853-03	Low Level Lab Control Sample KQ2609181-03
13C3-PFBS	40-135		88
13C3-PFHxS	40-130		82
13C8-PFOS	40-130		80
13C4-PFBA	5-130		88
13C5-PFPeA	40-130		88
13C5-PFHxA	40-130		85
13C4-PFHpA	40-130		81
13C8-PFOA	40-130		82
13C9-PFNA	40-130		82
13C6-PFDA	40-130		79
13C7-PFUnDA	30-130		75
13C2-PFDoDA	10-130		70
13C2-PFTeDA	10-130		67
13C8-FOSA	40-130		61
D3-MeFOSA	10-130		65
D5-EtFOSA	10-130		65
D7-MeFOSE	10-130		65
D9-EtFOSE	10-130		64
D3-MeFOSAA	40-170		74
D5-EtFOSAA	25-135		70
13C2-4:2 FTS	40-200		87
13C2-6:2 FTS	40-200		91
13C2-8:2 FTS	40-300		94
13C3-HFPO-DA	40-130		76

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with an pound (#) indicate the control criteria is not acceptable.

ALS Group USA, Corp.
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QA/QC Report

Client: ALS Environmental - Middletown **Service Request:** K2605119
Project: /40-3458226
Sample Matrix: Sludge, Solid

SURROGATE RECOVERY SUMMARY
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: 1633
Extraction Method: Method

Surrogate	Control Limits	SS-HLLA1-O-12 K2605119-007	SS-HLLA2-O-12 K2605119-008	Method Blank KQ2607853-04
13C3-PFBS	40-135	83	80	83
13C3-PFHxS	40-130	81	74	80
13C8-PFOS	40-130	81	76	80
13C4-PFBA	8-130	86	78	82
13C5-PFPeA	35-130	86	79	82
13C5-PFHxA	40-130	85	76	81
13C4-PFHpA	40-130	83	73	77
13C8-PFOA	40-130	82	74	80
13C9-PFNA	40-130	83	75	80
13C6-PFDA	40-130	84	74	79
13C7-PFUnDA	40-130	86	76	83
13C2-PFDoDA	40-130	82	76	78
13C2-PFTeDA	20-130	41	49	71
13C8-FOSA	40-130	64	69	67
D3-MeFOSA	10-130	38	44	56
D5-EtFOSA	10-130	29	35	53
D7-MeFOSE	20-130	49	50	65
D9-EtFOSE	15-130	39	41	64
D3-MeFOSAA	40-135	88	86	74
D5-EtFOSAA	40-150	99	106	88
13C2-4:2 FTS	40-165	117	143	94
13C2-6:2 FTS	40-215	123	127	90
13C2-8:2 FTS	40-275	115	123	94
13C3-HFPO-DA	40-130	70	64	68

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with an pound (#) indicate the control criteria is not acceptable.

Client: ALS Environmental - Middletown **Service Request:** K2605119
Project: /40-3458226
Sample Matrix: Sludge, Solid

SURROGATE RECOVERY SUMMARY
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: 1633
Extraction Method: Method

Surrogate	Control Limits	Method Blank KQ2609181-04	Lab Control Sample KQ2607853-02	Lab Control Sample KQ2609181-02
13C3-PFBS	40-135		85	
13C3-PFHxS	40-130		80	
13C8-PFOS	40-130		80	
13C4-PFBA	8-130		84	
13C5-PFPeA	35-130		82	
13C5-PFHxA	40-130		82	
13C4-PFHpA	40-130		77	
13C8-PFOA	40-130		80	
13C9-PFNA	40-130		80	
13C6-PFDA	40-130		81	
13C7-PFUnDA	40-130		83	
13C2-PFDoDA	40-130		77	
13C2-PFTeDA	20-130		67	
13C8-FOSA	40-130		68	
D3-MeFOSA	10-130		56	
D5-EtFOSA	10-130		55	
D7-MeFOSE	20-130		67	
D9-EtFOSE	15-130		66	
D3-MeFOSAA	40-135		74	
D5-EtFOSAA	40-150		86	
13C2-4:2 FTS	40-165		93	
13C2-6:2 FTS	40-215		89	
13C2-8:2 FTS	40-275		95	
13C3-HFPO-DA	40-130		69	

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with an pound (#) indicate the control criteria is not acceptable.

Client: ALS Environmental - Middletown **Service Request:** K2605119
Project: /40-3458226
Sample Matrix: Sludge, Solid

SURROGATE RECOVERY SUMMARY
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: 1633
Extraction Method: Method

Surrogate	Control Limits	Low Level Lab Control Sample KQ2607853-03	Low Level Lab Control Sample KQ2609181-03
13C3-PFBS	40-135	86	
13C3-PFHxS	40-130	81	
13C8-PFOS	40-130	81	
13C4-PFBA	8-130	85	
13C5-PFPeA	35-130	81	
13C5-PFHxA	40-130	82	
13C4-PFHpA	40-130	79	
13C8-PFOA	40-130	79	
13C9-PFNA	40-130	82	
13C6-PFDA	40-130	82	
13C7-PFUnDA	40-130	84	
13C2-PFDoDA	40-130	76	
13C2-PFTeDA	20-130	67	
13C8-FOSA	40-130	65	
D3-MeFOSA	10-130	57	
D5-EtFOSA	10-130	55	
D7-MeFOSE	20-130	67	
D9-EtFOSE	15-130	66	
D3-MeFOSAA	40-135	74	
D5-EtFOSAA	40-150	87	
13C2-4:2 FTS	40-165	96	
13C2-6:2 FTS	40-215	92	
13C2-8:2 FTS	40-275	99	
13C3-HFPO-DA	40-130	70	

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with an pound (#) indicate the control criteria is not acceptable.

ALS Group USA, Corp.
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QA/QC Report

Client: ALS Environmental - Middletown **Service Request:**K2605119
Project: **Date Analyzed:**06/08/26 14:32

Internal Standard Area and RT SUMMARY
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

File ID: J:\LCMS10\DATA\260608_1633_B1\260608_1633_003.d **Lab Code:**KQ2609351-12
Instrument ID: K-LCMS-10 **Analysis Lot:**923079
Analysis Method: 1633 **Signal ID:**1

		18O2-PFHxS		13C4-PFOS		13C3-PFBA	
		Area	**RT**	**Area**	**RT**	**Area**	**RT**
	Result ==>	73,120	6.12	65,270	6.88	627,092	3.25
	Upper Limit ==>	146,240	6.52	130,540	7.28	1,254,184	3.65
	Lower Limit ==>	36,560	5.72	32,635	6.48	313,546	2.85
Associated Analyses							
Low Level Continuing Calibration Verification	KQ2609351-12	76881.853	6.089	68304.991	6.839	638525.052	3.217
Qualitative Identification Standards	KQ2609351-14	87277	6.089	79041	6.839	736837	3.226
Continuing Calibration Blank	KQ2609351-15	72442	6.089	66249	6.839	609842	3.192
Bile Salt Interference Check	KQ2609351-16	78457	6.089	71071	6.839	644701	3.209

ALS Group USA, Corp.
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QA/QC Report

Client: ALS Environmental - Middletown **Service Request:**K2605119
Project: **Date Analyzed:**06/08/26 14:32

Internal Standard Area and RT SUMMARY
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

File ID: J:\LCMS10\DATA\260608_1633_B1\260608_1633_003.d **Lab Code:**KQ2609351-12
Instrument ID: K-LCMS-10 **Analysis Lot:**923079
Analysis Method: 1633 **Signal ID:**1

		13C2-PFHxA		13C4-PFOA		13C5-PFNA	
		Area	**RT**	**Area**	**RT**	**Area**	**RT**
	Result ==>	415,276	5.1	46,189	5.99	151,810	6.37
	Upper Limit ==>	830,552	5.50	92,378	6.39	303,620	6.77
	Lower Limit ==>	207,638	4.70	23,095	5.59	75,905	5.97
Associated Analyses							
Low Level Continuing Calibration Verification	KQ2609351-12	433360.892	5.075	49129.706	5.961	165037.856	6.335
Qualitative Identification Standards	KQ2609351-14	494130	5.084	57018	5.952	182400	6.335
Continuing Calibration Blank	KQ2609351-15	419140	5.075	47238	5.952	156903	6.335
Bile Salt Interference Check	KQ2609351-16	440611	5.075	50961	5.952	167068	6.335

Client: ALS Environmental - Middletown **Service Request:**K2605119
Project: **Date Analyzed:**06/08/26 14:32

Internal Standard Area and RT SUMMARY
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

File ID: J:\LCMS10\DATA\260608_1633_B1\260608_1633_003.d **Lab Code:**KQ2609351-12
Instrument ID: K-LCMS-10 **Analysis Lot:**923079
Analysis Method: 1633 **Signal ID:**1

	13C2-PFDA	
	Area	**RT**
Result ==>	169,335	6.73
Upper Limit ==>	338,670	7.13
Lower Limit ==>	84,668	6.33

Associated Analyses

Low Level Continuing Calibration Verification	KQ2609351-12	183213.816	6.693
Qualitative Identification Standards	KQ2609351-14	206437	6.693
Continuing Calibration Blank	KQ2609351-15	175121	6.693
Bile Salt Interference Check	KQ2609351-16	182237	6.693

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: ALS Environmental - Middletown **Service Request:**K2605119
Project: **Date Analyzed:**06/08/26 19:56

Internal Standard Area and RT SUMMARY
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

File ID: J:\LCMS10\DATA\260608_1633_B1\260608_1633_023.d **Lab Code:**KQ2609351-17
Instrument ID: K-LCMS-10 **Analysis Lot:**923079
Analysis Method: 1633 **Signal ID:**1

		18O2-PFHxS		13C4-PFOS		13C3-PFBA	
		Area	**RT**	**Area**	**RT**	**Area**	**RT**
	Result ==>	73,120	6.12	65,270	6.88	627,092	3.25
	Upper Limit ==>	146,240	6.52	130,540	7.28	1,254,184	3.65
	Lower Limit ==>	36,560	5.72	32,635	6.48	313,546	2.85
Associated Analyses							
Continuing Calibration Verification	KQ2609351-17	71641.223	6.089	65359.335	6.839	599653.485	3.201
Continuing Calibration Blank	KQ2609351-18	71059	6.089	65643	6.839	596566	3.192
Method Blank	KQ2609181-04	70762	6.089	63520	6.839	600072	3.234
Low Level Lab Control Sample	KQ2609181-03	65167	6.089	56878	6.839	585869	3.234
Lab Control Sample	KQ2609181-02	61614	6.089	51239	6.848	573758	3.226
Continuing Calibration Blank	KQ2609351-27	67573	6.089	58052	6.839	580373	3.192

ALS Group USA, Corp.
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QA/QC Report

Client: ALS Environmental - Middletown **Service Request:**K2605119
Project: **Date Analyzed:**06/08/26 19:56

Internal Standard Area and RT SUMMARY
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

File ID: J:\LCMS10\DATA\260608_1633_B1\260608_1633_023.d **Lab Code:**KQ2609351-17
Instrument ID: K-LCMS-10 **Analysis Lot:**923079
Analysis Method: 1633 **Signal ID:**1

		13C2-PFHxA		13C4-PFOA		13C5-PFNA	
		Area	**RT**	**Area**	**RT**	**Area**	**RT**
	Result ==>	415,276	5.1	46,189	5.99	151,810	6.37
	Upper Limit ==>	830,552	5.50	92,378	6.39	303,620	6.77
	Lower Limit ==>	207,638	4.70	23,095	5.59	75,905	5.97
Associated Analyses							
Continuing Calibration Verification	KQ2609351-17	410179.704	5.075	47599.019	5.952	153567.246	6.335
Continuing Calibration Blank	KQ2609351-18	412451	5.075	47206	5.961	155677	6.335
Method Blank	KQ2609181-04	406382	5.084	45594	5.961	147312	6.335
Low Level Lab Control Sample	KQ2609181-03	380656	5.075	41064	5.952	130171	6.335
Lab Control Sample	KQ2609181-02	365056	5.084	38026	5.952	122253	6.335
Continuing Calibration Blank	KQ2609351-27	386740	5.075	42520	5.961	138469	6.335

ALS Group USA, Corp.
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QA/QC Report

Client: ALS Environmental - Middletown **Service Request:**K2605119
Project: **Date Analyzed:**06/08/26 19:56

Internal Standard Area and RT SUMMARY
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

File ID: J:\LCMS10\DATA\260608_1633_B1\260608_1633_023.d **Lab Code:**KQ2609351-17
Instrument ID: K-LCMS-10 **Analysis Lot:**923079
Analysis Method: 1633 **Signal ID:**1

	13C2-PFDA	
	Area	**RT**
Result ==>	169,335	6.73
Upper Limit ==>	338,670	7.13
Lower Limit ==>	84,668	6.33

Associated Analyses

Continuing Calibration Verification	KQ2609351-17	173016.617	6.693
Continuing Calibration Blank	KQ2609351-18	173133	6.693
Method Blank	KQ2609181-04	167473	6.693
Low Level Lab Control Sample	KQ2609181-03	146826	6.693
Lab Control Sample	KQ2609181-02	131531	6.693
Continuing Calibration Blank	KQ2609351-27	146774	6.693

ALS Group USA, Corp.
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QA/QC Report

Client: ALS Environmental - Middletown **Service Request:**K2605119
Project: **Date Analyzed:**06/09/26 00:31

Internal Standard Area and RT SUMMARY
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

File ID: J:\LCMS10\DATA\260608_1633_B1\260608_1633_040.d **Lab Code:**KQ2609351-19
Instrument ID: K-LCMS-10 **Analysis Lot:**923079
Analysis Method: 1633 **Signal ID:**1

		18O2-PFHxS		13C4-PFOS		13C3-PFBA	
		Area	**RT**	**Area**	**RT**	**Area**	**RT**
	Result ==>	73,120	6.12	65,270	6.88	627,092	3.25
	Upper Limit ==>	146,240	6.52	130,540	7.28	1,254,184	3.65
	Lower Limit ==>	36,560	5.72	32,635	6.48	313,546	2.85
Associated Analyses							
Continuing Calibration Verification	KQ2609351-19	64998.236	6.089	55425.355	6.839	582180.870	3.201
Continuing Calibration Blank	KQ2609351-20	67628	6.089	59129	6.839	584546	3.192

ALS Group USA, Corp.
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QA/QC Report

Client: ALS Environmental - Middletown **Service Request:**K2605119
Project: **Date Analyzed:**06/09/26 00:31

Internal Standard Area and RT SUMMARY
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

File ID: J:\LCMS10\DATA\260608_1633_B1\260608_1633_040.d **Lab Code:**KQ2609351-19
Instrument ID: K-LCMS-10 **Analysis Lot:**923079
Analysis Method: 1633 **Signal ID:**1

		13C2-PFHxA		13C4-PFOA		13C5-PFNA	
		Area	**RT**	**Area**	**RT**	**Area**	**RT**
	Result ==>	415,276	5.1	46,189	5.99	151,810	6.37
	Upper Limit ==>	830,552	5.50	92,378	6.39	303,620	6.77
	Lower Limit ==>	207,638	4.70	23,095	5.59	75,905	5.97
Associated Analyses							
Continuing Calibration Verification	KQ2609351-19	382140.490	5.084	40042.263	5.961	131100.207	6.335
Continuing Calibration Blank	KQ2609351-20	392847	5.075	42505	5.952	138530	6.326

Client: ALS Environmental - Middletown **Service Request:**K2605119
Project: **Date Analyzed:**06/09/26 00:31

Internal Standard Area and RT SUMMARY
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

File ID: J:\LCMS10\DATA\260608_1633_B1\260608_1633_040.d **Lab Code:**KQ2609351-19
Instrument ID: K-LCMS-10 **Analysis Lot:**923079
Analysis Method: 1633 **Signal ID:**1

	13C2-PFDA	
	Area	**RT**
Result ==>	169,335	6.73
Upper Limit ==>	338,670	7.13
Lower Limit ==>	84,668	6.33

Associated Analyses

Continuing Calibration Verification	KQ2609351-19	140701.859	6.693
Continuing Calibration Blank	KQ2609351-20	151008	6.693

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: ALS Environmental - Middletown **Service Request:**K2605119
Project: **Date Analyzed:**06/09/26 01:03

Internal Standard Area and RT SUMMARY
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

File ID: J:\LCMS10\DATA\260608_1633_B2\260608_1633_042.d **Lab Code:**KQ2609445-07
Instrument ID: K-LCMS-10 **Analysis Lot:**923269
Analysis Method: 1633 **Signal ID:**1

		18O2-PFHxS		13C4-PFOS		13C3-PFBA	
		Area	**RT**	**Area**	**RT**	**Area**	**RT**
	Result ==>	73,120	6.12	65,270	6.88	627,092	3.25
	Upper Limit ==>	146,240	6.52	130,540	7.28	1,254,184	3.65
	Lower Limit ==>	36,560	5.72	32,635	6.48	313,546	2.85
Associated Analyses							
Low Level Continuing Calibration Verification	KQ2609445-07	72859.014	6.089	64476.475	6.839	620986.161	3.209

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: ALS Environmental - Middletown **Service Request:**K2605119
Project: **Date Analyzed:**06/09/26 01:03

Internal Standard Area and RT SUMMARY
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

File ID: J:\LCMS10\DATA\260608_1633_B2\260608_1633_042.d **Lab Code:**KQ2609445-07
Instrument ID: K-LCMS-10 **Analysis Lot:**923269
Analysis Method: 1633 **Signal ID:**1

		13C2-PFHxA		13C4-PFOA		13C5-PFNA	
		Area	**RT**	**Area**	**RT**	**Area**	**RT**
	Result ==>	415,276	5.1	46,189	5.99	151,810	6.37
	Upper Limit ==>	830,552	5.50	92,378	6.39	303,620	6.77
	Lower Limit ==>	207,638	4.70	23,095	5.59	75,905	5.97
Associated Analyses							
Low Level Continuing Calibration Verification	KQ2609445-07	420482.130	5.084	46387.142	5.961	145769.489	6.335

Client: ALS Environmental - Middletown **Service Request:**K2605119
Project: **Date Analyzed:**06/09/26 01:03

Internal Standard Area and RT SUMMARY
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

File ID: J:\LCMS10\DATA\260608_1633_B2\260608_1633_042.d **Lab Code:**KQ2609445-07
Instrument ID: K-LCMS-10 **Analysis Lot:**923269
Analysis Method: 1633 **Signal ID:**1

	13C2-PFDA	
	Area	**RT**
Result ==>	169,335	6.73
Upper Limit ==>	338,670	7.13
Lower Limit ==>	84,668	6.33

Associated Analyses

Low Level Continuing Calibration Verification	KQ2609445-07	160855.474	6.693

Client: ALS Environmental - Middletown **Service Request:**K2605119
Project: **Date Analyzed:**06/09/26 01:19

Internal Standard Area and RT SUMMARY
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

File ID: J:\LCMS10\DATA\260608_1633_B2\260608_1633_043.d **Lab Code:**KQ2609445-08
Instrument ID: K-LCMS-10 **Analysis Lot:**923269
Analysis Method: 1633 **Signal ID:**1

		18O2-PFHxS		13C4-PFOS		13C3-PFBA	
		Area	**RT**	**Area**	**RT**	**Area**	**RT**
	Result ==>	73,120	6.12	65,270	6.88	627,092	3.25
	Upper Limit ==>	146,240	6.52	130,540	7.28	1,254,184	3.65
	Lower Limit ==>	36,560	5.72	32,635	6.48	313,546	2.85
Associated Analyses							
Continuing Calibration Verification	KQ2609445-08	68552.174	6.089	61629.579	6.839	593631.594	3.201
Qualitative Identification Standards	KQ2609445-09	84524	6.089	76925	6.839	717885	3.217
Continuing Calibration Blank	KQ2609445-10	71373	6.080	63850	6.839	595414	3.192
Bile Salt Interference Check	KQ2609445-11	75942	6.089	68832	6.839	633192	3.201
Continuing Calibration Blank	KQ2609445-01	65710	6.089	56019	6.839	582278	3.184
MW702-12052026	K2605119-001	58763	6.089	50407	6.839	560254	3.242
MW701-12052026	K2605119-002	57686	6.089	49232	6.839	532341	3.234
MW301-12052026	K2605119-003	62284	6.089	53503	6.839	568629	3.226
MW601-12052026	K2605119-004	61893	6.089	53409	6.839	571662	3.226

ALS Group USA, Corp.
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QA/QC Report

Client: ALS Environmental - Middletown **Service Request:**K2605119
Project: **Date Analyzed:**06/09/26 01:19

Internal Standard Area and RT SUMMARY
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

File ID: J:\LCMS10\DATA\260608_1633_B2\260608_1633_043.d **Lab Code:**KQ2609445-08
Instrument ID: K-LCMS-10 **Analysis Lot:**923269
Analysis Method: 1633 **Signal ID:**1

		13C2-PFHxA		13C4-PFOA		13C5-PFNA	
		Area	**RT**	**Area**	**RT**	**Area**	**RT**
	Result ==>	415,276	5.1	46,189	5.99	151,810	6.37
	Upper Limit ==>	830,552	5.50	92,378	6.39	303,620	6.77
	Lower Limit ==>	207,638	4.70	23,095	5.59	75,905	5.97
Associated Analyses							
Continuing Calibration Verification	KQ2609445-08	404272.463	5.075	44577.545	5.952	143394.639	6.335
Qualitative Identification Standards	KQ2609445-09	490772	5.076	55676	5.953	179126	6.335
Continuing Calibration Blank	KQ2609445-10	417470	5.075	47089	5.952	153948	6.326
Bile Salt Interference Check	KQ2609445-11	439510	5.084	49232	5.952	160057	6.335
Continuing Calibration Blank	KQ2609445-01	382655	5.075	41015	5.952	129746	6.335
MW702-12052026	K2605119-001	363750	5.084	37886	5.961	119306	6.335
MW701-12052026	K2605119-002	357932	5.084	37323	5.952	116560	6.335
MW301-12052026	K2605119-003	374470	5.084	38625	5.952	126040	6.335
MW601-12052026	K2605119-004	365054	5.084	38579	5.952	122327	6.335

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QA/QC Report

Client: ALS Environmental - Middletown **Service Request:**K2605119
Project: **Date Analyzed:**06/09/26 01:19

Internal Standard Area and RT SUMMARY
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

File ID: J:\LCMS10\DATA\260608_1633_B2\260608_1633_043.d **Lab Code:**KQ2609445-08
Instrument ID: K-LCMS-10 **Analysis Lot:**923269
Analysis Method: 1633 **Signal ID:**1

		13C2-PFDA	
		Area	**RT**
	Result ==>	169,335	6.73
	Upper Limit ==>	338,670	7.13
	Lower Limit ==>	84,668	6.33
Associated Analyses			
Continuing Calibration Verification	KQ2609445-08	161886.638	6.693
Qualitative Identification Standards	KQ2609445-09	195352	6.694
Continuing Calibration Blank	KQ2609445-10	168227	6.693
Bile Salt Interference Check	KQ2609445-11	178133	6.693
Continuing Calibration Blank	KQ2609445-01	140844	6.693
MW702-12052026	K2605119-001	127346	6.693
MW701-12052026	K2605119-002	128702	6.693
MW301-12052026	K2605119-003	135238	6.693
MW601-12052026	K2605119-004	133390	6.693

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QA/QC Report

Client: ALS Environmental - Middletown **Service Request:**K2605119
Project: **Date Analyzed:**06/09/26 05:21

Internal Standard Area and RT SUMMARY
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

File ID: J:\LCMS10\DATA\260608_1633_B2\260608_1633_058.d **Lab Code:**KQ2609445-03
Instrument ID: K-LCMS-10 **Analysis Lot:**923269
Analysis Method: 1633 **Signal ID:**1

		18O2-PFHxS		13C4-PFOS		13C3-PFBA	
		Area	**RT**	**Area**	**RT**	**Area**	**RT**
	Result ==>	73,120	6.12	65,270	6.88	627,092	3.25
	Upper Limit ==>	146,240	6.52	130,540	7.28	1,254,184	3.65
	Lower Limit ==>	36,560	5.72	32,635	6.48	313,546	2.85
Associated Analyses							
Continuing Calibration Verification	KQ2609445-03	66163.270	6.089	59138.100	6.839	584300.328	3.201
Continuing Calibration Blank	KQ2609445-02	68791	6.080	60725	6.839	590147	3.184
MW602-12052026	K2605119-005	65957	6.089	58093	6.839	600030	3.226
MW201-12052026	K2605119-006	63814	6.089	54926	6.839	571961	3.234

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QA/QC Report

Client: ALS Environmental - Middletown **Service Request:**K2605119
Project: **Date Analyzed:**06/09/26 05:21

Internal Standard Area and RT SUMMARY
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

File ID: J:\LCMS10\DATA\260608_1633_B2\260608_1633_058.d **Lab Code:**KQ2609445-03
Instrument ID: K-LCMS-10 **Analysis Lot:**923269
Analysis Method: 1633 **Signal ID:**1

		13C2-PFHxA		13C4-PFOA		13C5-PFNA	
		Area	**RT**	**Area**	**RT**	**Area**	**RT**
	Result ==>	415,276	5.1	46,189	5.99	151,810	6.37
	Upper Limit ==>	830,552	5.50	92,378	6.39	303,620	6.77
	Lower Limit ==>	207,638	4.70	23,095	5.59	75,905	5.97
Associated Analyses							
Continuing Calibration Verification	KQ2609445-03	380453.902	5.084	41971.095	5.952	133220.405	6.335
Continuing Calibration Blank	KQ2609445-02	398936	5.075	43734	5.952	141656	6.326
MW602-12052026	K2605119-005	392110	5.084	42094	5.952	135108	6.335
MW201-12052026	K2605119-006	385039	5.084	41633	5.952	130914	6.335

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QA/QC Report

Client: ALS Environmental - Middletown **Service Request:**K2605119
Project: **Date Analyzed:**06/09/26 05:21

Internal Standard Area and RT SUMMARY
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

File ID: J:\LCMS10\DATA\260608_1633_B2\260608_1633_058.d **Lab Code:**KQ2609445-03
Instrument ID: K-LCMS-10 **Analysis Lot:**923269
Analysis Method: 1633 **Signal ID:**1

	13C2-PFDA	
	Area	**RT**
Result ==>	169,335	6.73
Upper Limit ==>	338,670	7.13
Lower Limit ==>	84,668	6.33

Associated Analyses

Continuing Calibration Verification	KQ2609445-03	147000.990	6.693
Continuing Calibration Blank	KQ2609445-02	152767	6.693
MW602-12052026	K2605119-005	148984	6.693
MW201-12052026	K2605119-006	141533	6.693

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QA/QC Report

Client: ALS Environmental - Middletown **Service Request:**K2605119
Project: **Date Analyzed:**06/09/26 08:35

Internal Standard Area and RT SUMMARY
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

File ID: J:\LCMS10\DATA\260608_1633_B2\260608_1633_070.d **Lab Code:**KQ2609445-04
Instrument ID: K-LCMS-10 **Analysis Lot:**923269
Analysis Method: 1633 **Signal ID:**1

		18O2-PFHxS		13C4-PFOS		13C3-PFBA	
		Area	**RT**	**Area**	**RT**	**Area**	**RT**
	Result ==>	73,120	6.12	65,270	6.88	627,092	3.25
	Upper Limit ==>	146,240	6.52	130,540	7.28	1,254,184	3.65
	Lower Limit ==>	36,560	5.72	32,635	6.48	313,546	2.85
Associated Analyses							
Continuing Calibration Verification	KQ2609445-04	67426.643	6.080	59074.598	6.839	593350.819	3.201
Continuing Calibration Blank	KQ2609445-05	69759	6.080	61366	6.831	588689	3.184

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QA/QC Report

Client: ALS Environmental - Middletown **Service Request:**K2605119
Project: **Date Analyzed:**06/09/26 08:35

Internal Standard Area and RT SUMMARY
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

File ID: J:\LCMS10\DATA\260608_1633_B2\260608_1633_070.d **Lab Code:**KQ2609445-04
Instrument ID: K-LCMS-10 **Analysis Lot:**923269
Analysis Method: 1633 **Signal ID:**1

		13C2-PFHxA		13C4-PFOA		13C5-PFNA	
		Area	**RT**	**Area**	**RT**	**Area**	**RT**
	Result ==>	415,276	5.1	46,189	5.99	151,810	6.37
	Upper Limit ==>	830,552	5.50	92,378	6.39	303,620	6.77
	Lower Limit ==>	207,638	4.70	23,095	5.59	75,905	5.97
Associated Analyses							
Continuing Calibration Verification	KQ2609445-04	391149.364	5.075	43444.027	5.952	139157.216	6.335
Continuing Calibration Blank	KQ2609445-05	396281	5.075	43841	5.952	142417	6.326

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QA/QC Report

Client: ALS Environmental - Middletown **Service Request:**K2605119
Project: **Date Analyzed:**06/09/26 08:35

Internal Standard Area and RT SUMMARY
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

File ID: J:\LCMS10\DATA\260608_1633_B2\260608_1633_070.d **Lab Code:**KQ2609445-04
Instrument ID: K-LCMS-10 **Analysis Lot:**923269
Analysis Method: 1633 **Signal ID:**1

	13C2-PFDA	
	Area	**RT**
Result ==>	169,335	6.73
Upper Limit ==>	338,670	7.13
Lower Limit ==>	84,668	6.33

Associated Analyses

Continuing Calibration Verification	KQ2609445-04	152591.542	6.693
Continuing Calibration Blank	KQ2609445-05	154912	6.685

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QA/QC Report

Client: ALS Environmental - Middletown **Service Request:**K2605119
Project: **Date Analyzed:**06/09/26 09:07

Internal Standard Area and RT SUMMARY
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

File ID: J:\LCMS10\DATA\260608_1633_B3\260608_1633_072.d **Lab Code:**KQ2609460-02
Instrument ID: K-LCMS-10 **Analysis Lot:**923265
Analysis Method: 1633 **Signal ID:**1

		18O2-PFHxS		13C4-PFOS		13C3-PFBA	
		Area	**RT**	**Area**	**RT**	**Area**	**RT**
	Result ==>	73,120	6.12	65,270	6.88	627,092	3.25
	Upper Limit ==>	146,240	6.52	130,540	7.28	1,254,184	3.65
	Lower Limit ==>	36,560	5.72	32,635	6.48	313,546	2.85
Associated Analyses							
Low Level Continuing Calibration Verification	KQ2609460-02	73193.556	6.080	64933.455	6.839	620972.666	3.201

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QA/QC Report

Client: ALS Environmental - Middletown **Service Request:**K2605119
Project: **Date Analyzed:**06/09/26 09:07

Internal Standard Area and RT SUMMARY
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

File ID: J:\LCMS10\DATA\260608_1633_B3\260608_1633_072.d **Lab Code:**KQ2609460-02
Instrument ID: K-LCMS-10 **Analysis Lot:**923265
Analysis Method: 1633 **Signal ID:**1

		13C2-PFHxA		13C4-PFOA		13C5-PFNA	
		Area	**RT**	**Area**	**RT**	**Area**	**RT**
	Result ==>	415,276	5.1	46,189	5.99	151,810	6.37
	Upper Limit ==>	830,552	5.50	92,378	6.39	303,620	6.77
	Lower Limit ==>	207,638	4.70	23,095	5.59	75,905	5.97
Associated Analyses							
Low Level Continuing Calibration Verification	KQ2609460-02	418841.409	5.075	46096.690	5.952	154507.342	6.326

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QA/QC Report

Client: ALS Environmental - Middletown **Service Request:**K2605119
Project: **Date Analyzed:**06/09/26 09:07

Internal Standard Area and RT SUMMARY
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

File ID: J:\LCMS10\DATA\260608_1633_B3\260608_1633_072.d **Lab Code:**KQ2609460-02
Instrument ID: K-LCMS-10 **Analysis Lot:**923265
Analysis Method: 1633 **Signal ID:**1

	13C2-PFDA	
	Area	**RT**
Result ==>	169,335	6.73
Upper Limit ==>	338,670	7.13
Lower Limit ==>	84,668	6.33

Associated Analyses

Low Level Continuing Calibration Verification	KQ2609460-02	167214.557	6.693

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QA/QC Report

Client: ALS Environmental - Middletown **Service Request:**K2605119
Project: **Date Analyzed:**06/09/26 09:23

Internal Standard Area and RT SUMMARY
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

File ID: J:\LCMS10\DATA\260608_1633_B3\260608_1633_073.d **Lab Code:**KQ2609460-03
Instrument ID: K-LCMS-10 **Analysis Lot:**923265
Analysis Method: 1633 **Signal ID:**1

		18O2-PFHxS		13C4-PFOS		13C3-PFBA	
		Area	**RT**	**Area**	**RT**	**Area**	**RT**
	Result ==>	73,120	6.12	65,270	6.88	627,092	3.25
	Upper Limit ==>	146,240	6.52	130,540	7.28	1,254,184	3.65
	Lower Limit ==>	36,560	5.72	32,635	6.48	313,546	2.85
Associated Analyses							
Continuing Calibration Verification	KQ2609460-03	70700.932	6.080	63909.277	6.831	595079.028	3.192
Qualitative Identification Standards	KQ2609460-04	86187	6.089	75613	6.839	712346	3.217
Continuing Calibration Blank	KQ2609460-05	72299	6.080	64908	6.831	596784	3.184
Method Blank	KQ2607853-04	64579	6.089	56819	6.839	605673	3.226
Low Level Lab Control Sample	KQ2607853-03	62273	6.089	52541	6.839	600247	3.217
Lab Control Sample	KQ2607853-02	63472	6.080	55508	6.839	598665	3.217
Bile Salt Interference Check	KQ2609460-06	71469	6.080	63535	6.831	612524	3.201

Client: ALS Environmental - Middletown **Service Request:**K2605119
Project: **Date Analyzed:**06/09/26 09:23

Internal Standard Area and RT SUMMARY
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

File ID: J:\LCMS10\DATA\260608_1633_B3\260608_1633_073.d **Lab Code:**KQ2609460-03
Instrument ID: K-LCMS-10 **Analysis Lot:**923265
Analysis Method: 1633 **Signal ID:**1

		13C2-PFHxA		13C4-PFOA		13C5-PFNA	
		Area	**RT**	**Area**	**RT**	**Area**	**RT**
	Result ==>	415,276	5.1	46,189	5.99	151,810	6.37
	Upper Limit ==>	830,552	5.50	92,378	6.39	303,620	6.77
	Lower Limit ==>	207,638	4.70	23,095	5.59	75,905	5.97
Associated Analyses							
Continuing Calibration Verification	KQ2609460-03	404929.973	5.075	44983.080	5.952	146870.197	6.335
Qualitative Identification Standards	KQ2609460-04	487745	5.075	54338	5.952	177802	6.326
Continuing Calibration Blank	KQ2609460-05	411625	5.075	46324	5.952	151649	6.326
Method Blank	KQ2607853-04	381096	5.075	40655	5.952	131925	6.326
Low Level Lab Control Sample	KQ2607853-03	368024	5.075	39471	5.952	123479	6.326
Lab Control Sample	KQ2607853-02	375017	5.075	40042	5.952	128785	6.326
Bile Salt Interference Check	KQ2609460-06	404801	5.075	44197	5.952	142970	6.326

ALS Group USA, Corp.
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QA/QC Report

Client: ALS Environmental - Middletown **Service Request:**K2605119
Project: **Date Analyzed:**06/09/26 09:23

Internal Standard Area and RT SUMMARY
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

File ID: J:\LCMS10\DATA\260608_1633_B3\260608_1633_073.d **Lab Code:**KQ2609460-03
Instrument ID: K-LCMS-10 **Analysis Lot:**923265
Analysis Method: 1633 **Signal ID:**1

	13C2-PFDA	
	Area	**RT**
Result ==>	169,335	6.73
Upper Limit ==>	338,670	7.13
Lower Limit ==>	84,668	6.33

Associated Analyses

Continuing Calibration Verification	KQ2609460-03	162150.461	6.693
Qualitative Identification Standards	KQ2609460-04	196210	6.693
Continuing Calibration Blank	KQ2609460-05	166335	6.693
Method Blank	KQ2607853-04	145957	6.693
Low Level Lab Control Sample	KQ2607853-03	131888	6.685
Lab Control Sample	KQ2607853-02	141824	6.693
Bile Salt Interference Check	KQ2609460-06	158789	6.693

ALS Group USA, Corp.
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QA/QC Report

Client: ALS Environmental - Middletown **Service Request:**K2605119
Project: **Date Analyzed:**06/09/26 16:13

Internal Standard Area and RT SUMMARY
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

File ID: J:\LCMS10\DATA\260608_1633_B3\260608_1633_097.d **Lab Code:**KQ2609460-07
Instrument ID: K-LCMS-10 **Analysis Lot:**923265
Analysis Method: 1633 **Signal ID:**1

		18O2-PFHxS		13C4-PFOS		13C3-PFBA	
		Area	**RT**	**Area**	**RT**	**Area**	**RT**
	Result ==>	73,120	6.12	65,270	6.88	627,092	3.25
	Upper Limit ==>	146,240	6.52	130,540	7.28	1,254,184	3.65
	Lower Limit ==>	36,560	5.72	32,635	6.48	313,546	2.85
Associated Analyses							
Continuing Calibration Verification	KQ2609460-07	69844.071	6.080	61501.510	6.831	600687.683	3.184
Continuing Calibration Blank	KQ2609460-08	73527	6.080	65455	6.831	594102	3.192
Continuing Calibration Blank	KQ2609460-10	76605	6.072	68612	6.822	603201	3.176

ALS Group USA, Corp.
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QA/QC Report

Client: ALS Environmental - Middletown **Service Request:**K2605119
Project: **Date Analyzed:**06/09/26 16:13

Internal Standard Area and RT SUMMARY
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

File ID: J:\LCMS10\DATA\260608_1633_B3\260608_1633_097.d **Lab Code:**KQ2609460-07
Instrument ID: K-LCMS-10 **Analysis Lot:**923265
Analysis Method: 1633 **Signal ID:**1

		13C2-PFHxA		13C4-PFOA		13C5-PFNA	
		Area	**RT**	**Area**	**RT**	**Area**	**RT**
	Result ==>	415,276	5.1	46,189	5.99	151,810	6.37
	Upper Limit ==>	830,552	5.50	92,378	6.39	303,620	6.77
	Lower Limit ==>	207,638	4.70	23,095	5.59	75,905	5.97
Associated Analyses							
Continuing Calibration Verification	KQ2609460-07	402160.086	5.075	44784.943	5.952	144918.529	6.326
Continuing Calibration Blank	KQ2609460-08	427554	5.075	48414	5.952	156508	6.326
Continuing Calibration Blank	KQ2609460-10	434248	5.067	48427	5.944	157308	6.318

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QA/QC Report

Client: ALS Environmental - Middletown **Service Request:**K2605119
Project: **Date Analyzed:**06/09/26 16:13

Internal Standard Area and RT SUMMARY
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

File ID: J:\LCMS10\DATA\260608_1633_B3\260608_1633_097.d **Lab Code:**KQ2609460-07
Instrument ID: K-LCMS-10 **Analysis Lot:**923265
Analysis Method: 1633 **Signal ID:**1

	13C2-PFDA	
	Area	**RT**
Result ==>	169,335	6.73
Upper Limit ==>	338,670	7.13
Lower Limit ==>	84,668	6.33

Associated Analyses

Continuing Calibration Verification	KQ2609460-07	161431.478	6.685
Continuing Calibration Blank	KQ2609460-08	172076	6.685
Continuing Calibration Blank	KQ2609460-10	175581	6.676

ALS Group USA, Corp.
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QA/QC Report

Client: ALS Environmental - Middletown **Service Request:**K2605119
Project: **Date Analyzed:**06/10/26 11:37

Internal Standard Area and RT SUMMARY
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

File ID: J:\LCMS10\DATA\260610_1633_B3\260610_1633-0004.d **Lab Code:**KQ2609462-21
Instrument ID: K-LCMS-10 **Analysis Lot:**923291
Analysis Method: 1633 **Signal ID:**1

		18O2-PFHxS		13C4-PFOS		13C3-PFBA	
		Area	**RT**	**Area**	**RT**	**Area**	**RT**
	Result ==>	73,120	6.12	65,270	6.88	627,092	3.25
	Upper Limit ==>	146,240	6.52	130,540	7.28	1,254,184	3.65
	Lower Limit ==>	36,560	5.72	32,635	6.48	313,546	2.85
Associated Analyses							
Low Level Continuing Calibration Verification	KQ2609462-21	86544.306	6.072	77511.587	6.822	686704.447	3.184

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: ALS Environmental - Middletown **Service Request:**K2605119
Project: **Date Analyzed:**06/10/26 11:37

Internal Standard Area and RT SUMMARY
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

File ID: J:\LCMS10\DATA\260610_1633_B3\260610_1633-0004.d **Lab Code:**KQ2609462-21
Instrument ID: K-LCMS-10 **Analysis Lot:**923291
Analysis Method: 1633 **Signal ID:**1

		13C2-PFHxA		13C4-PFOA		13C5-PFNA	
		Area	**RT**	**Area**	**RT**	**Area**	**RT**
	Result ==>	415,276	5.1	46,189	5.99	151,810	6.37
	Upper Limit ==>	830,552	5.50	92,378	6.39	303,620	6.77
	Lower Limit ==>	207,638	4.70	23,095	5.59	75,905	5.97
Associated Analyses							
Low Level Continuing Calibration Verification	KQ2609462-21	494731.762	5.067	54462.794	5.935	177016.655	6.318

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dba ALS Environmental

QA/QC Report

Client: ALS Environmental - Middletown **Service Request:**K2605119
Project: **Date Analyzed:**06/10/26 11:37

Internal Standard Area and RT SUMMARY
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

File ID: J:\LCMS10\DATA\260610_1633_B3\260610_1633-0004.d **Lab Code:**KQ2609462-21
Instrument ID: K-LCMS-10 **Analysis Lot:**923291
Analysis Method: 1633 **Signal ID:**1

	13C2-PFDA	
	Area	**RT**
Result ==>	169,335	6.73
Upper Limit ==>	338,670	7.13
Lower Limit ==>	84,668	6.33

Associated Analyses

Low Level Continuing Calibration Verification	KQ2609462-21	197912.507	6.676

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QA/QC Report

Client: ALS Environmental - Middletown **Service Request:**K2605119
Project: **Date Analyzed:**06/10/26 11:53

Internal Standard Area and RT SUMMARY
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

File ID: J:\LCMS10\DATA\260610_1633_B3\260610_1633-0005.d **Lab Code:**KQ2609462-22
Instrument ID: K-LCMS-10 **Analysis Lot:**923291
Analysis Method: 1633 **Signal ID:**1

		18O2-PFHxS		13C4-PFOS		13C3-PFBA	
		Area	**RT**	**Area**	**RT**	**Area**	**RT**
	Result ==>	73,120	6.12	65,270	6.88	627,092	3.25
	Upper Limit ==>	146,240	6.52	130,540	7.28	1,254,184	3.65
	Lower Limit ==>	36,560	5.72	32,635	6.48	313,546	2.85
Associated Analyses							
Continuing Calibration Verification	KQ2609462-22	82424.689	6.072	75392.170	6.822	663191.032	3.176
Qualitative Identification Standards	KQ2609462-23	101059	6.072	90073	6.822	797895	3.201
Continuing Calibration Blank	KQ2609462-24	81582	6.072	73226	6.814	640335	3.167
Bile Salt Interference Check	KQ2609462-25	87154	6.063	78537	6.814	689653	3.184
Continuing Calibration Blank	KQ2609462-01	80181	6.072	71231	6.814	623438	3.167
Continuing Calibration Blank	KQ2609462-02	83880	6.072	74770	6.822	566554	3.226
Continuing Calibration Blank	KQ2609462-03	79695	6.072	71791	6.813	617816	3.176
Continuing Calibration Blank	KQ2609462-04	79903	6.063	71324	6.813	620018	3.167
SS-HLLA1-O-12	K2605119-007	67782	6.063	60038	6.822	536699	3.201
Continuing Calibration Blank	KQ2609462-07	79751	6.063	72607	6.813	622598	3.167

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QA/QC Report

Client: ALS Environmental - Middletown **Service Request:**K2605119
Project: **Date Analyzed:**06/10/26 11:53

Internal Standard Area and RT SUMMARY
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

File ID: J:\LCMS10\DATA\260610_1633_B3\260610_1633-0005.d **Lab Code:**KQ2609462-22
Instrument ID: K-LCMS-10 **Analysis Lot:**923291
Analysis Method: 1633 **Signal ID:**1

		13C2-PFHxA		13C4-PFOA		13C5-PFNA	
		Area	**RT**	**Area**	**RT**	**Area**	**RT**
	Result ==>	415,276	5.1	46,189	5.99	151,810	6.37
	Upper Limit ==>	830,552	5.50	92,378	6.39	303,620	6.77
	Lower Limit ==>	207,638	4.70	23,095	5.59	75,905	5.97
Associated Analyses							
Continuing Calibration Verification	KQ2609462-22	473816.604	5.067	53493.498	5.935	171878.661	6.318
Qualitative Identification Standards	KQ2609462-23	581139	5.067	64937	5.935	208219	6.309
Continuing Calibration Blank	KQ2609462-24	463421	5.067	53330	5.935	168584	6.309
Bile Salt Interference Check	KQ2609462-25	500271	5.067	56256	5.935	181188	6.309
Continuing Calibration Blank	KQ2609462-01	452661	5.067	50054	5.944	164465	6.309
Continuing Calibration Blank	KQ2609462-02	375164	5.075	50776	5.944	161451	6.318
Continuing Calibration Blank	KQ2609462-03	451671	5.067	50963	5.944	166701	6.309
Continuing Calibration Blank	KQ2609462-04	446693	5.067	50165	5.935	163937	6.309
SS-HLLA1-O-12	K2605119-007	394650	5.067	45281	5.944	150109	6.309
Continuing Calibration Blank	KQ2609462-07	458383	5.067	51416	5.935	167360	6.309

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QA/QC Report

Client: ALS Environmental - Middletown **Service Request:**K2605119
Project: **Date Analyzed:**06/10/26 11:53

Internal Standard Area and RT SUMMARY
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

File ID: J:\LCMS10\DATA\260610_1633_B3\260610_1633-0005.d **Lab Code:**KQ2609462-22
Instrument ID: K-LCMS-10 **Analysis Lot:**923291
Analysis Method: 1633 **Signal ID:**1

		13C2-PFDA	
		Area	**RT**
	Result ==>	169,335	6.73
	Upper Limit ==>	338,670	7.13
	Lower Limit ==>	84,668	6.33
Associated Analyses			
Continuing Calibration Verification	KQ2609462-22	191443.443	6.676
Qualitative Identification Standards	KQ2609462-23	226434	6.676
Continuing Calibration Blank	KQ2609462-24	186729	6.668
Bile Salt Interference Check	KQ2609462-25	201950	6.676
Continuing Calibration Blank	KQ2609462-01	183429	6.676
Continuing Calibration Blank	KQ2609462-02	177901	6.676
Continuing Calibration Blank	KQ2609462-03	184220	6.676
Continuing Calibration Blank	KQ2609462-04	180512	6.668
SS-HLLA1-O-12	K2605119-007	171116	6.676
Continuing Calibration Blank	KQ2609462-07	184364	6.668

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QA/QC Report

Client: ALS Environmental - Middletown **Service Request:**K2605119
Project: **Date Analyzed:**06/10/26 17:23

Internal Standard Area and RT SUMMARY
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

File ID: J:\LCMS10\DATA\260610_1633_B3\260610_1633-0025.d **Lab Code:**KQ2609462-06
Instrument ID: K-LCMS-10 **Analysis Lot:**923291
Analysis Method: 1633 **Signal ID:**1

		18O2-PFHxS		13C4-PFOS		13C3-PFBA	
		Area	**RT**	**Area**	**RT**	**Area**	**RT**
	Result ==>	73,120	6.12	65,270	6.88	627,092	3.25
	Upper Limit ==>	146,240	6.52	130,540	7.28	1,254,184	3.65
	Lower Limit ==>	36,560	5.72	32,635	6.48	313,546	2.85
Associated Analyses							
Continuing Calibration Verification	KQ2609462-06	82835.877	6.072	74850.071	6.814	643665.134	3.176
Continuing Calibration Blank	KQ2609462-05	80605	6.063	73787	6.814	623048	3.167
SS-HLLA2-O-12	K2605119-008	70773	6.063	62380	6.822	596502	3.201

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QA/QC Report

Client: ALS Environmental - Middletown **Service Request:**K2605119
Project: **Date Analyzed:**06/10/26 17:23

Internal Standard Area and RT SUMMARY
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

File ID: J:\LCMS10\DATA\260610_1633_B3\260610_1633-0025.d **Lab Code:**KQ2609462-06
Instrument ID: K-LCMS-10 **Analysis Lot:**923291
Analysis Method: 1633 **Signal ID:**1

		13C2-PFHxA		13C4-PFOA		13C5-PFNA	
		Area	**RT**	**Area**	**RT**	**Area**	**RT**
	Result ==>	415,276	5.1	46,189	5.99	151,810	6.37
	Upper Limit ==>	830,552	5.50	92,378	6.39	303,620	6.77
	Lower Limit ==>	207,638	4.70	23,095	5.59	75,905	5.97
Associated Analyses							
Continuing Calibration Verification	KQ2609462-06	476799.109	5.067	54104.680	5.935	176294.134	6.309
Continuing Calibration Blank	KQ2609462-05	470848	5.067	52875	5.935	172093	6.309
SS-HLLA2-O-12	K2605119-008	429752	5.067	47646	5.935	154587	6.318

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QA/QC Report

Client: ALS Environmental - Middletown **Service Request:**K2605119
Project: **Date Analyzed:**06/10/26 17:23

Internal Standard Area and RT SUMMARY
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

File ID: J:\LCMS10\DATA\260610_1633_B3\260610_1633-0025.d **Lab Code:**KQ2609462-06
Instrument ID: K-LCMS-10 **Analysis Lot:**923291
Analysis Method: 1633 **Signal ID:**1

	13C2-PFDA	
	Area	**RT**
Result ==>	169,335	6.73
Upper Limit ==>	338,670	7.13
Lower Limit ==>	84,668	6.33

Associated Analyses

Continuing Calibration Verification	KQ2609462-06	193587.686	6.676
Continuing Calibration Blank	KQ2609462-05	188972	6.676
SS-HLLA2-O-12	K2605119-008	179045	6.676

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QA/QC Report

Client: ALS Environmental - Middletown **Service Request:**K2605119
Project: **Date Analyzed:**06/10/26 21:24

Internal Standard Area and RT SUMMARY
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

File ID: J:\LCMS10\DATA\260610_1633_B3\260610_1633-0040.d **Lab Code:**KQ2609462-09
Instrument ID: K-LCMS-10 **Analysis Lot:**923291
Analysis Method: 1633 **Signal ID:**1

		18O2-PFHxS		13C4-PFOS		13C3-PFBA	
		Area	**RT**	**Area**	**RT**	**Area**	**RT**
	Result ==>	73,120	6.12	65,270	6.88	627,092	3.25
	Upper Limit ==>	146,240	6.52	130,540	7.28	1,254,184	3.65
	Lower Limit ==>	36,560	5.72	32,635	6.48	313,546	2.85
Associated Analyses							
Continuing Calibration Verification	KQ2609462-09	77331.881	6.063	69271.885	6.822	606309.516	3.184
Continuing Calibration Blank	KQ2609462-08	77693	6.063	69100	6.813	601685	3.167

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QA/QC Report

Client: ALS Environmental - Middletown **Service Request:**K2605119
Project: **Date Analyzed:**06/10/26 21:24

Internal Standard Area and RT SUMMARY
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

File ID: J:\LCMS10\DATA\260610_1633_B3\260610_1633-0040.d **Lab Code:**KQ2609462-09
Instrument ID: K-LCMS-10 **Analysis Lot:**923291
Analysis Method: 1633 **Signal ID:**1

		13C2-PFHxA		13C4-PFOA		13C5-PFNA	
		Area	**RT**	**Area**	**RT**	**Area**	**RT**
	Result ==>	415,276	5.1	46,189	5.99	151,810	6.37
	Upper Limit ==>	830,552	5.50	92,378	6.39	303,620	6.77
	Lower Limit ==>	207,638	4.70	23,095	5.59	75,905	5.97
Associated Analyses							
Continuing Calibration Verification	KQ2609462-09	435244.005	5.067	48574.846	5.935	156589.163	6.309
Continuing Calibration Blank	KQ2609462-08	443222	5.058	49429	5.935	156614	6.309

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QA/QC Report

Client: ALS Environmental - Middletown **Service Request:**K2605119
Project: **Date Analyzed:**06/10/26 21:24

Internal Standard Area and RT SUMMARY
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

File ID: J:\LCMS10\DATA\260610_1633_B3\260610_1633-0040.d **Lab Code:**KQ2609462-09
Instrument ID: K-LCMS-10 **Analysis Lot:**923291
Analysis Method: 1633 **Signal ID:**1

	13C2-PFDA	
	Area	**RT**
Result ==>	169,335	6.73
Upper Limit ==>	338,670	7.13
Lower Limit ==>	84,668	6.33

Associated Analyses

Continuing Calibration Verification	KQ2609462-09	171706.152	6.668
Continuing Calibration Blank	KQ2609462-08	175630	6.668

Client:	ALS Environmental - Middletown	**Service Request:**	K2605119
Project:	40-3458226	**Date Analyzed:**	06/09/26
Sample Matrix:	Sludge, Solid	**Date Extracted:**	06/02/26

Lab Control Sample Summary
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method:	1633	**Units:**	ng/g
Prep Method:	Method	**Basis:**	Dry
		Analysis Lot:	923265

Lab Control Sample
KQ2607853-02

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	1.21	0.943	128	45-160
1H, 1H, 2H, 2H-Perfluorodecanesulfonic acid (8:2 FTS)	1.15	0.960	119	70-150
1H, 1H, 2H, 2H-Perfluorohexanesulfonic acid (4:2 FTS)	1.16	0.937	123	60-150
1H, 1H, 2H, 2H-Perfluorooctanesulfonic acid (6:2 FTS)	1.16	0.951	122	55-200
2H,2H,3H,3H-Perfluorodecanoic acid (7:3 FTCA)	7.85	10.0	78	60-150
2H,2H,3H,3H-Perfluorooctanoic acid (5:3 FTCA)	9.14	10.0	91	60-130
4,4,5,5,6,6,6-Heptafluorohexanoic acid (3:3 FTCA)	11.6	10.0	116	45-130
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	1.27	0.945	135	70-160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)	1.18	0.933	127	70-150
Hexafluoropropyleneoxide dimer acid (HFPO-DA) (GenX)	1.22	1.00	122	70-145
N-Ethylperfluorooctane sulfonamide (EtFOSAm)	1.07	1.00	107	70-140
N-Ethylperfluorooctane sulfonamido acetic acid (NEtFOSAA)	1.19	1.00	119	65-165
N-Ethylperfluorooctane sulfonamido ethanol (EtFOSE)	1.08	1.00	108	70-135
N-Methylperfluorooctane sulfonamide (MeFOSA)	1.10	1.00	110	70-155
N-Methylperfluorooctane sulfonamido acetic acid (NMeFOSAA)	1.10	1.00	110	65-155
N-Methylperfluorooctane sulfonamido ethanol (MeFOSE)	1.16	1.00	116	70-140
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	1.12	1.00	112	60-155
Perfluoro(2-ethoxyethane) sulfonic acid (PFEESA)	1.04	0.890	117	70-140
Perfluoro-3-methoxypropanoic acid (PFMPA)	1.23	1.00	123	30-140
Perfluoro-4-methoxybutanoic acid (PFMBA)	1.23	1.00	123	60-150
Perfluorobutane sulfonic acid (PFBS)	1.04	0.887	117	65-145
Perfluorobutanoic acid (PFBA)	1.19	1.00	119	70-140
Perfluorodecane sulfonic acid (PFDS)	1.11	0.965	115	40-155
Perfluorodecanoic acid (PFDA)	1.14	1.00	114	70-155
Perfluorododecane sulfonic acid (PFDoS)	1.07	0.970	110	25-160
Perfluorododecanoic acid (PFDOA)	1.26	1.00	126	70-150
Perfluoroheptane sulfonic acid (PFHpS)	1.15	0.953	121	65-155
Perfluoroheptanoic acid (PFHpA)	1.19	1.00	119	65-145
Perfluorohexane sulfonic acid (PFHxS)	1.13	0.914	124	60-150
Perfluorohexanoic acid (PFHxA)	1.17	1.00	117	65-140
Perfluorononane sulfonic acid (PFNS)	1.13	0.962	117	55-140

QA/QC Report

Client:	ALS Environmental - Middletown	**Service Request:**	K2605119
Project:	40-3458226	**Date Analyzed:**	06/09/26
Sample Matrix:	Sludge, Solid	**Date Extracted:**	06/02/26

Lab Control Sample Summary
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method:	1633	**Units:**	ng/g
Prep Method:	Method	**Basis:**	Dry
		Analysis Lot:	923265

Lab Control Sample
KQ2607853-02

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
Perfluorononanoic acid (PFNA)	1.18	1.00	118	70-155
Perfluorooctane sulfonamide (PFOSAm)	1.24	1.00	124	70-140
Perfluorooctane sulfonic acid (PFOS)	1.09	0.928	117	65-160
Perfluorooctanoic acid (PFOA)	1.25	1.00	125	70-150
Perfluoropentane sulfonic acid (PFPeS)	1.17	0.941	124	55-160
Perfluoropentanoic acid (PFPeA)	1.20	1.00	120	60-150
Perfluorotetradecanoic acid (PFTDA)	1.16	1.00	116	65-150
Perfluorotridecanoic acid (PFTrDA)	1.36	1.00	136	65-150
Perfluoroundecanoic acid (PFUnDA)	1.20	1.00	120	70-155

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QA/QC Report

Client:	ALS Environmental - Middletown	**Service Request:**	K2605119
Project:	40-3458226	**Date Analyzed:**	06/09/26
Sample Matrix:	Sludge, Solid	**Date Extracted:**	06/02/26

Lab Control Sample Summary
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method:	1633	**Units:**	ng/g
Prep Method:	Method	**Basis:**	Dry
		Analysis Lot:	923265

Low Level Lab Control Sample
KQ2607853-03

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	0.189	0.189	100	45-160
1H, 1H, 2H, 2H-Perfluorodecanesulfonic acid (8:2 FTS)	0.196	0.192	102	70-150
1H, 1H, 2H, 2H-Perfluorohexanesulfonic acid (4:2 FTS)	0.187	0.187	100	60-150
1H, 1H, 2H, 2H-Perfluorooctanesulfonic acid (6:2 FTS)	0.195	0.190	103	55-200
2H,2H,3H,3H-Perfluorodecanoic acid (7:3 FTCA)	1.46	2.00	73	60-150
2H,2H,3H,3H-Perfluorooctanoic acid (5:3 FTCA)	1.73	2.00	86	60-130
4,4,5,5,6,6,6-Heptafluorohexanoic acid (3:3 FTCA)	2.30	2.00	115	45-130
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	0.214	0.189	113	70-160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)	0.191	0.187	102	70-150
Hexafluoropropyleneoxide dimer acid (HFPO-DA) (GenX)	0.223	0.200	112	70-145
N-Ethylperfluorooctane sulfonamide (EtFOSAm)	0.191	0.200	96	70-140
N-Ethylperfluorooctane sulfonamido acetic acid (NEtFOSAA)	0.214	0.200	107	65-165
N-Ethylperfluorooctane sulfonamido ethanol (EtFOSE)	0.203	0.200	102	70-135
N-Methylperfluorooctane sulfonamide (MeFOSA)	0.198	0.200	99	70-155
N-Methylperfluorooctane sulfonamido acetic acid (NMeFOSAA)	0.205	0.200	103	65-155
N-Methylperfluorooctane sulfonamido ethanol (MeFOSE)	0.188	0.200	94	70-140
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.201	0.200	101	60-155
Perfluoro(2-ethoxyethane) sulfonic acid (PFEESA)	0.181	0.178	102	70-140
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.219	0.200	110	30-140
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.205	0.200	103	60-150
Perfluorobutane sulfonic acid (PFBS)	0.186	0.177	105	65-145
Perfluorobutanoic acid (PFBA)	0.200	0.200	100	70-140
Perfluorodecane sulfonic acid (PFDS)	0.181	0.193	94	40-155
Perfluorodecanoic acid (PFDA)	0.206	0.200	103	70-155
Perfluorododecane sulfonic acid (PFDoS)	0.161	0.194	83	25-160
Perfluorododecanoic acid (PFDOA)	0.198	0.200	99	70-150
Perfluoroheptane sulfonic acid (PFHpS)	0.213	0.191	112	65-155
Perfluoroheptanoic acid (PFHpA)	0.203	0.200	102	65-145
Perfluorohexane sulfonic acid (PFHxS)	0.189	0.183	103	60-150
Perfluorohexanoic acid (PFHxA)	0.208	0.200	104	65-140
Perfluorononane sulfonic acid (PFNS)	0.189	0.192	98	55-140

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QA/QC Report

Client:	ALS Environmental - Middletown	**Service Request:**	K2605119
Project:	40-3458226	**Date Analyzed:**	06/09/26
Sample Matrix:	Sludge, Solid	**Date Extracted:**	06/02/26

Lab Control Sample Summary
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method:	1633	**Units:**	ng/g
Prep Method:	Method	**Basis:**	Dry
		Analysis Lot:	923265

Low Level Lab Control Sample
KQ2607853-03

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
Perfluorononanoic acid (PFNA)	0.193	0.200	97	70-155
Perfluorooctane sulfonamide (PFOSAm)	0.217	0.200	109	70-140
Perfluorooctane sulfonic acid (PFOS)	0.176	0.186	95	65-160
Perfluorooctanoic acid (PFOA)	0.201	0.200	101	70-150
Perfluoropentane sulfonic acid (PFPeS)	0.201	0.188	107	55-160
Perfluoropentanoic acid (PFPeA)	0.205	0.200	103	60-150
Perfluorotetradecanoic acid (PFTDA)	0.198	0.200	99	65-150
Perfluorotridecanoic acid (PFTrDA)	0.210	0.200	105	65-150
Perfluoroundecanoic acid (PFUnDA)	0.194	0.200	97	70-155

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QA/QC Report

Client:	ALS Environmental - Middletown	**Service Request:**	K2605119
Project:	40-3458226	**Date Analyzed:**	06/08/26
Sample Matrix:	Ground Water	**Date Extracted:**	06/08/26

Lab Control Sample Summary
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method:	1633	**Units:**	ng/L
Prep Method:	Method	**Basis:**	NA
		Analysis Lot:	923079

Lab Control Sample
KQ2609181-02

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	16.1	18.9	85	55-160
1H, 1H, 2H, 2H-Perfluorodecanesulfonic acid (8:2 FTS)	19.7	19.2	103	60-150
1H, 1H, 2H, 2H-Perfluorohexanesulfonic acid (4:2 FTS)	19.4	18.7	103	70-145
1H, 1H, 2H, 2H-Perfluorooctanesulfonic acid (6:2 FTS)	19.8	19.0	104	65-155
2H,2H,3H,3H-Perfluorodecanoic acid (7:3 FTCA)	155	200	78	50-145
2H,2H,3H,3H-Perfluorooctanoic acid (5:3 FTCA)	188	200	94	70-135
4,4,5,5,6,6,6-Heptafluorohexanoic acid (3:3 FTCA)	220	200	110	65-130
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	21.0	18.9	111	65-145
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)	18.0	18.7	96	70-155
Hexafluoropropyleneoxide dimer acid (HFPO-DA) (GenX)	20.4	20.0	102	70-140
N-Ethylperfluorooctane sulfonamide (EtFOSAm)	15.7	20.0	78	65-145
N-Ethylperfluorooctane sulfonamido acetic acid (NEtFOSAA)	19.9	20.0	100	70-145
N-Ethylperfluorooctane sulfonamido ethanol (EtFOSE)	16.6	20.0	83	70-135
N-Methylperfluorooctane sulfonamide (MeFOSA)	16.4	20.0	82	60-150
N-Methylperfluorooctane sulfonamido acetic acid (NMeFOSAA)	20.4	20.0	102	50-140
N-Methylperfluorooctane sulfonamido ethanol (MeFOSE)	18.1	20.0	91	70-145
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	20.5	20.0	102	50-150
Perfluoro(2-ethoxyethane) sulfonic acid (PFEESA)	18.8	17.8	106	70-140
Perfluoro-3-methoxypropanoic acid (PFMPA)	22.1	20.0	111	55-140
Perfluoro-4-methoxybutanoic acid (PFMBA)	21.9	20.0	110	60-150
Perfluorobutane sulfonic acid (PFBS)	18.7	17.7	105	60-145
Perfluorobutanoic acid (PFBA)	20.7	20.0	104	70-140
Perfluorodecane sulfonic acid (PFDS)	17.3	19.3	90	60-145
Perfluorodecanoic acid (PFDA)	20.8	20.0	104	70-140
Perfluorododecane sulfonic acid (PFDoS)	16.7	19.4	86	50-145
Perfluorododecanoic acid (PFDOA)	21.3	20.0	107	70-140
Perfluoroheptane sulfonic acid (PFHpS)	20.9	19.1	110	70-150
Perfluoroheptanoic acid (PFHpA)	20.6	20.0	103	70-150
Perfluorohexane sulfonic acid (PFHxS)	20.1	18.3	110	65-145
Perfluorohexanoic acid (PFHxA)	20.7	20.0	104	70-145
Perfluorononane sulfonic acid (PFNS)	19.3	19.2	100	65-145

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QA/QC Report

Client:	ALS Environmental - Middletown	**Service Request:**	K2605119
Project:	40-3458226	**Date Analyzed:**	06/08/26
Sample Matrix:	Ground Water	**Date Extracted:**	06/08/26

Lab Control Sample Summary
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method:	1633	**Units:**	ng/L
Prep Method:	Method	**Basis:**	NA
		Analysis Lot:	923079

Lab Control Sample
KQ2609181-02

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
Perfluorononanoic acid (PFNA)	21.2	20.0	106	70-150
Perfluorooctane sulfonamide (PFOSAm)	20.4	20.0	102	70-145
Perfluorooctane sulfonic acid (PFOS)	18.9	18.6	102	55-150
Perfluorooctanoic acid (PFOA)	21.6	20.0	108	70-150
Perfluoropentane sulfonic acid (PFPeS)	20.8	18.8	111	65-140
Perfluoropentanoic acid (PFPeA)	20.8	20.0	104	65-135
Perfluorotetradecanoic acid (PFTDA)	19.7	20.0	99	60-140
Perfluorotridecanoic acid (PFTrDA)	20.8	20.0	104	65-140
Perfluoroundecanoic acid (PFUnDA)	20.3	20.0	102	70-145

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QA/QC Report

Client:	ALS Environmental - Middletown	**Service Request:**	K2605119
Project:	40-3458226	**Date Analyzed:**	06/08/26
Sample Matrix:	Ground Water	**Date Extracted:**	06/08/26

Lab Control Sample Summary
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method:	1633	**Units:**	ng/L
Prep Method:	Method	**Basis:**	NA
		Analysis Lot:	923079

Low Level Lab Control Sample
KQ2609181-03

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	3.44	3.77	91	55-160
1H, 1H, 2H, 2H-Perfluorodecanesulfonic acid (8:2 FTS)	3.92	3.84	102	60-150
1H, 1H, 2H, 2H-Perfluorohexanesulfonic acid (4:2 FTS)	3.72	3.75	99	70-145
1H, 1H, 2H, 2H-Perfluorooctanesulfonic acid (6:2 FTS)	3.86	3.80	101	65-155
2H,2H,3H,3H-Perfluorodecanoic acid (7:3 FTCA)	24.2	40.0	61	50-145
2H,2H,3H,3H-Perfluorooctanoic acid (5:3 FTCA)	29.8	40.0	74	70-135
4,4,5,5,6,6,6-Heptafluorohexanoic acid (3:3 FTCA)	34.1	40.0	85	65-130
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	4.04	3.78	107	65-145
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)	3.68	3.73	99	70-155
Hexafluoropropyleneoxide dimer acid (HFPO-DA) (GenX)	4.10	4.00	103	70-140
N-Ethylperfluorooctane sulfonamide (EtFOSAm)	4.04	4.00	101	65-145
N-Ethylperfluorooctane sulfonamido acetic acid (NEtFOSAA)	4.52	4.00	113	70-145
N-Ethylperfluorooctane sulfonamido ethanol (EtFOSE)	3.72	4.00	93	70-135
N-Methylperfluorooctane sulfonamide (MeFOSA)	3.80	4.00	95	60-150
N-Methylperfluorooctane sulfonamido acetic acid (NMeFOSAA)	4.08	4.00	102	50-140
N-Methylperfluorooctane sulfonamido ethanol (MeFOSE)	3.68	4.00	92	70-145
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	3.94	4.00	99	50-150
Perfluoro(2-ethoxyethane) sulfonic acid (PFEESA)	3.50	3.56	98	70-140
Perfluoro-3-methoxypropanoic acid (PFMPA)	4.20	4.00	105	55-140
Perfluoro-4-methoxybutanoic acid (PFMBA)	4.08	4.00	102	60-150
Perfluorobutane sulfonic acid (PFBS)	3.58	3.55	101	60-145
Perfluorobutanoic acid (PFBA)	4.04	4.00	101	70-140
Perfluorodecane sulfonic acid (PFDS)	3.60	3.86	93	60-145
Perfluorodecanoic acid (PFDA)	3.88	4.00	97	70-140
Perfluorododecane sulfonic acid (PFDoS)	3.14	3.88	81	50-145
Perfluorododecanoic acid (PFDOA)	3.96	4.00	99	70-140
Perfluoroheptane sulfonic acid (PFHpS)	4.00	3.81	105	70-150
Perfluoroheptanoic acid (PFHpA)	4.06	4.00	102	70-150
Perfluorohexane sulfonic acid (PFHxS)	3.48	3.66	95	65-145
Perfluorohexanoic acid (PFHxA)	3.98	4.00	100	70-145
Perfluorononane sulfonic acid (PFNS)	3.62	3.85	94	65-145

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QA/QC Report

Client:	ALS Environmental - Middletown	**Service Request:**	K2605119
Project:	40-3458226	**Date Analyzed:**	06/08/26
Sample Matrix:	Ground Water	**Date Extracted:**	06/08/26

Lab Control Sample Summary
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method:	1633	**Units:**	ng/L
Prep Method:	Method	**Basis:**	NA
		Analysis Lot:	923079

Low Level Lab Control Sample
KQ2609181-03

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
Perfluorononanoic acid (PFNA)	3.94	4.00	99	70-150
Perfluorooctane sulfonamide (PFOSAm)	4.50	4.00	113	70-145
Perfluorooctane sulfonic acid (PFOS)	3.46	3.71	93	55-150
Perfluorooctanoic acid (PFOA)	3.90	4.00	98	70-150
Perfluoropentane sulfonic acid (PFPeS)	3.88	3.76	103	65-140
Perfluoropentanoic acid (PFPeA)	4.10	4.00	103	65-135
Perfluorotetradecanoic acid (PFTDA)	3.98	4.00	100	60-140
Perfluorotridecanoic acid (PFTrDA)	4.14	4.00	104	65-140
Perfluoroundecanoic acid (PFUnDA)	4.00	4.00	100	70-145

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QA/QC Report

Client:	ALS Environmental - Middletown	**Service Request:**	K2605119
Project:		**Date Analyzed:**	NA
Sample Matrix:	Ground Water	**Date Extracted:**	

Method Blank Summary
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Sample Name:		**Instrument ID:**	
Lab Code:		**File ID:**	
Analysis Method:	1633	**Analysis Lot:**	923079
Prep Method:	None		

This Method Blank applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Qualitative Identification Standards	KQ2609351-14	J:\LCMS10\DATA\260608_1633_B1\260608_1633_005.d	06/08/26 15:04
Bile Salt Interference Check	KQ2609351-16	J:\LCMS10\DATA\260608_1633_B1\260608_1633_007.d	06/08/26 15:36
Qualitative Identification Standards	KQ2609445-09	J:\LCMS10\DATA\260608_1633_B2\260608_1633_044.d	06/09/26 01:35
Bile Salt Interference Check	KQ2609445-11	J:\LCMS10\DATA\260608_1633_B2\260608_1633_046.d	06/09/26 02:07
Qualitative Identification Standards	KQ2609460-04	J:\LCMS10\DATA\260608_1633_B3\260608_1633_074.d	06/09/26 09:39
Bile Salt Interference Check	KQ2609460-06	J:\LCMS10\DATA\260608_1633_B3\260608_1633_081.d	06/09/26 11:32
Qualitative Identification Standards	KQ2609462-23	J:\LCMS10\DATA\260610_1633_B3\260610_1633-0006.d	06/10/26 12:09
Bile Salt Interference Check	KQ2609462-25	J:\LCMS10\DATA\260610_1633_B3\260610_1633-0008.d	06/10/26 12:41

Client:	ALS Environmental - Middletown	**Service Request:**	K2605119
Project:		**Date Analyzed:**	06/08/26 22:05
Sample Matrix:	Ground Water	**Date Extracted:**	06/08/26

Method Blank Summary
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Sample Name:	Method Blank	**Instrument ID:**	K-LCMS-10
Lab Code:	KQ2609181-04	**File ID:**	J:\LCMS10\DATA\260608_1633_B1\260608_1633_031.d
Analysis Method:	1633	**Analysis Lot:**	923079,923269
Prep Method:	Method	**Extraction Lot:**	477453

This Method Blank applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Low Level Lab Control Sample	KQ2609181-03	J:\LCMS10\DATA\260608_1633_B1\260608_1633_032.d	06/08/26 22:22
Lab Control Sample	KQ2609181-02	J:\LCMS10\DATA\260608_1633_B1\260608_1633_033.d	06/08/26 22:38
MW702-12052026	K2605119-001	J:\LCMS10\DATA\260608_1633_B2\260608_1633_054.d	06/09/26 04:16
MW701-12052026	K2605119-002	J:\LCMS10\DATA\260608_1633_B2\260608_1633_055.d	06/09/26 04:33
MW301-12052026	K2605119-003	J:\LCMS10\DATA\260608_1633_B2\260608_1633_056.d	06/09/26 04:49
MW601-12052026	K2605119-004	J:\LCMS10\DATA\260608_1633_B2\260608_1633_057.d	06/09/26 05:05
MW602-12052026	K2605119-005	J:\LCMS10\DATA\260608_1633_B2\260608_1633_060.d	06/09/26 05:53
MW201-12052026	K2605119-006	J:\LCMS10\DATA\260608_1633_B2\260608_1633_061.d	06/09/26 06:10

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QA/QC Report

Client:	ALS Environmental - Middletown	**Service Request:**	K2605119
Project:		**Date Analyzed:**	06/09/26 10:11
Sample Matrix:	Sludge, Solid	**Date Extracted:**	06/02/26

Method Blank Summary
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Sample Name:	Method Blank	**Instrument ID:**	K-LCMS-10
Lab Code:	KQ2607853-04	**File ID:**	J:\LCMS10\DATA\260608_1633_B3\260608_1633_076.d
Analysis Method:	1633	**Analysis Lot:**	923265,923291
Prep Method:	Method	**Extraction Lot:**	476366

This Method Blank applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Low Level Lab Control Sample	KQ2607853-03	J:\LCMS10\DATA\260608_1633_B3\260608_1633_077.d	06/09/26 10:28
Lab Control Sample	KQ2607853-02	J:\LCMS10\DATA\260608_1633_B3\260608_1633_080.d	06/09/26 11:16
SS-HLLA1-O-12	K2605119-007	J:\LCMS10\DATA\260610_1633_B3\260610_1633-0023.d	06/10/26 16:50
SS-HLLA2-O-12	K2605119-008	J:\LCMS10\DATA\260610_1633_B3\260610_1633-0028.d	06/10/26 18:11

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QA/QC Report

Client:	ALS Environmental - Middletown	**Service Request:**	K2605119
Project:		**Date Analyzed:**	NA
Sample Matrix:	Ground Water	**Date Extracted:**	

Lab Control Sample Summary
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Sample Name:		**Instrument ID:**	
Lab Code:		**File ID:**	
Analysis Method:	1633	**Analysis Lot:**	923079
Prep Method:	None		

This Lab Control Sample applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Qualitative Identification Standards	KQ2609351-14	J:\LCMS10\DATA\260608_1633_B1\260608_1633_005.d	06/08/26 15:04
Bile Salt Interference Check	KQ2609351-16	J:\LCMS10\DATA\260608_1633_B1\260608_1633_007.d	06/08/26 15:36
Qualitative Identification Standards	KQ2609445-09	J:\LCMS10\DATA\260608_1633_B2\260608_1633_044.d	06/09/26 01:35
Bile Salt Interference Check	KQ2609445-11	J:\LCMS10\DATA\260608_1633_B2\260608_1633_046.d	06/09/26 02:07
Qualitative Identification Standards	KQ2609460-04	J:\LCMS10\DATA\260608_1633_B3\260608_1633_074.d	06/09/26 09:39
Bile Salt Interference Check	KQ2609460-06	J:\LCMS10\DATA\260608_1633_B3\260608_1633_081.d	06/09/26 11:32
Qualitative Identification Standards	KQ2609462-23	J:\LCMS10\DATA\260610_1633_B3\260610_1633-0006.d	06/10/26 12:09
Bile Salt Interference Check	KQ2609462-25	J:\LCMS10\DATA\260610_1633_B3\260610_1633-0008.d	06/10/26 12:41

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QA/QC Report

Client:	ALS Environmental - Middletown	**Service Request:**	K2605119
Project:		**Date Analyzed:**	06/08/26 22:38
Sample Matrix:	Ground Water	**Date Extracted:**	06/08/26

Lab Control Sample Summary
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Sample Name:	Lab Control Sample	**Instrument ID:**	K-LCMS-10
Lab Code:	KQ2609181-02	**File ID:**	J:\LCMS10\DATA\260608_1633_B1\260608_1633_033.d
Analysis Method:	1633	**Analysis Lot:**	923079,923269
Prep Method:	Method	**Extraction Lot:**	477453

This Lab Control Sample applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Method Blank	KQ2609181-04	J:\LCMS10\DATA\260608_1633_B1\260608_1633_031.d	06/08/26 22:05
Low Level Lab Control Sample	KQ2609181-03	J:\LCMS10\DATA\260608_1633_B1\260608_1633_032.d	06/08/26 22:22
MW702-12052026	K2605119-001	J:\LCMS10\DATA\260608_1633_B2\260608_1633_054.d	06/09/26 04:16
MW701-12052026	K2605119-002	J:\LCMS10\DATA\260608_1633_B2\260608_1633_055.d	06/09/26 04:33
MW301-12052026	K2605119-003	J:\LCMS10\DATA\260608_1633_B2\260608_1633_056.d	06/09/26 04:49
MW601-12052026	K2605119-004	J:\LCMS10\DATA\260608_1633_B2\260608_1633_057.d	06/09/26 05:05
MW602-12052026	K2605119-005	J:\LCMS10\DATA\260608_1633_B2\260608_1633_060.d	06/09/26 05:53
MW201-12052026	K2605119-006	J:\LCMS10\DATA\260608_1633_B2\260608_1633_061.d	06/09/26 06:10

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QA/QC Report

Client:	ALS Environmental - Middletown	**Service Request:**	K2605119
Project:		**Date Analyzed:**	06/09/26 11:16
Sample Matrix:	Sludge, Solid	**Date Extracted:**	06/02/26

Lab Control Sample Summary
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Sample Name:	Lab Control Sample	**Instrument ID:**	K-LCMS-10
Lab Code:	KQ2607853-02	**File ID:**	J:\LCMS10\DATA\260608_1633_B3\260608_1633_080.d
Analysis Method:	1633	**Analysis Lot:**	923265,923291
Prep Method:	Method	**Extraction Lot:**	476366

This Lab Control Sample applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Method Blank	KQ2607853-04	J:\LCMS10\DATA\260608_1633_B3\260608_1633_076.d	06/09/26 10:11
Low Level Lab Control Sample	KQ2607853-03	J:\LCMS10\DATA\260608_1633_B3\260608_1633_077.d	06/09/26 10:28
SS-HLLA1-O-12	K2605119-007	J:\LCMS10\DATA\260610_1633_B3\260610_1633-0023.d	06/10/26 16:50
SS-HLLA2-O-12	K2605119-008	J:\LCMS10\DATA\260610_1633_B3\260610_1633-0028.d	06/10/26 18:11

Client: ALS Environmental - Middletown **Service Request:** K2605119
Project: **Calibration Date:** 6/2/2026

Initial Calibration Summary
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Calibration ID: KC2600258 **Signal ID:** 1
Instrument ID: K-LCMS-10

#	Lab Code	Sample Name	File Location	Acquisition Date
01	KC2600258-01	1633 0.05PPB 25-OLC-03-57D	J:\LCMS10\DATA\260602_1633_NC\260531_1633_195.d	06/02/2026 16:21
02	KC2600258-02	1633 0.1PPB 25-OLC-03-57E	J:\LCMS10\DATA\260602_1633_NC\260531_1633_196.d	06/02/2026 16:37
03	KC2600258-03	1633 0.2PPB 25-OLC-03-59L	J:\LCMS10\DATA\260602_1633_NC\260531_1633_197.d	06/02/2026 16:53
04	KC2600258-04	1633 0.5PPB 25-OLC-03-62A	J:\LCMS10\DATA\260602_1633_NC\260531_1633_198.d	06/02/2026 17:09
05	KC2600258-05	1633 1.0PPB 25-OLC-03-63G	J:\LCMS10\DATA\260602_1633_NC\260531_1633_199.d	06/02/2026 17:26
06	KC2600258-06	1633 5.0PPB 25-OLC-03-57I	J:\LCMS10\DATA\260602_1633_NC\260531_1633_200.d	06/02/2026 17:42
07	KC2600258-07	1633 10.0PPB 25-OLC-03-63H	J:\LCMS10\DATA\260602_1633_NC\260531_1633_201.d	06/02/2026 17:58
08	KC2600258-08	1633 15.0PPB 25-OLC-03-57K	J:\LCMS10\DATA\260602_1633_NC\260531_1633_202.d	06/02/2026 18:14
09	KC2600258-09	1633 20.0PPB 25-OLC-03-57L	J:\LCMS10\DATA\260602_1633_NC\260531_1633_203.d	06/02/2026 18:30

Analyte

11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0472	0.8011	02	0.0943	0.783	03	0.189	0.8476	04	0.472	0.87
05	0.943	0.8563	06	4.72	0.8022	07	9.43	0.9261	08	14.1	0.694
09	18.9	0.7494									

13C2-4:2 FTS

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5	0.3933	02	5	0.3978	03	5	0.3774	04	5	0.3257
05	5	0.3824	06	5	0.3884	07	5	0.3575	08	5	0.4378
09	5	0.3921									

13C2-6:2 FTS

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5	0.2666	02	5	0.2696	03	5	0.2568	04	5	0.215
05	5	0.2575	06	5	0.2645	07	5	0.2429	08	5	0.3002
09	5	0.2658									

13C2-8:2 FTS

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5	0.2582	02	5	0.2513	03	5	0.2413	04	5	0.2051
05	5	0.2423	06	5	0.2373	07	5	0.2065	08	5	0.2385
09	5	0.2126									

13C2-PFDoDA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.25	0.7681	02	1.25	0.7465	03	1.25	0.7717	04	1.25	0.6228
05	1.25	0.7505	06	1.25	0.7635	07	1.25	0.732	08	1.25	0.9081
09	1.25	0.8457									

13C2-PFTeDA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.25	0.5023	02	1.25	0.4812	03	1.25	0.4976	04	1.25	0.4055
05	1.25	0.4734	06	1.25	0.4913	07	1.25	0.4653	08	1.25	0.5779
09	1.25	0.5506									

Client: ALS Environmental - Middletown **Service Request:** K2605119
Project: **Calibration Date:** 6/2/2026

Initial Calibration Summary
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Calibration ID: KC2600258 **Signal ID:** 1
Instrument ID: K-LCMS-10

Analyte

13C3-HFPO-DA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	10	0.3662	02	10	0.3595	03	10	0.3428	04	10	0.2869
05	10	0.3347	06	10	0.3655	07	10	0.3354	08	10	0.4322
09	10	0.3832									

13C3-PFBS

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.5	2.18	02	2.5	2.156	03	2.5	2.068	04	2.5	1.768
05	2.5	2.069	06	2.5	2.113	07	2.5	1.961	08	2.5	2.405
09	2.5	2.18									

13C3-PFHxS

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.5	1.271	02	2.5	1.26	03	2.5	1.221	04	2.5	1.045
05	2.5	1.237	06	2.5	1.267	07	2.5	1.191	08	2.5	1.475
09	2.5	1.325									

13C4-PFBA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	10	1.184	02	10	1.186	03	10	1.157	04	10	0.9625
05	10	1.142	06	10	1.188	07	10	1.104	08	10	1.384
09	10	1.236									

13C4-PFHpA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.5	0.6605	02	2.5	0.6635	03	2.5	0.6476	04	2.5	0.5353
05	2.5	0.6295	06	2.5	0.6714	07	2.5	0.6144	08	2.5	0.7857
09	2.5	0.698									

13C5-PFHxA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.5	1.118	02	2.5	1.116	03	2.5	1.092	04	2.5	0.9136
05	2.5	1.074	06	2.5	1.124	07	2.5	1.05	08	2.5	1.315
09	2.5	1.171									

13C5-PFPeA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5	0.7447	02	5	0.7476	03	5	0.7316	04	5	0.603
05	5	0.7214	06	5	0.7527	07	5	0.7082	08	5	0.8992
09	5	0.8035									

13C6-PFDA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.25	1.07	02	1.25	1.067	03	1.25	1.06	04	1.25	0.8636
05	1.25	1.028	06	1.25	1.064	07	1.25	0.9764	08	1.25	1.253
09	1.25	1.154									

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13C7-PFUnDA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.25	1.043	02	1.25	1.025	03	1.25	1.035	04	1.25	0.8354
05	1.25	1.008	06	1.25	1.029	07	1.25	0.9692	08	1.25	1.202
09	1.25	1.101									

13C8-FOSA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.5	2.22	02	2.5	2.23	03	2.5	2.144	04	2.5	1.779
05	2.5	2.139	06	2.5	2.227	07	2.5	2.119	08	2.5	2.643
09	2.5	2.437									

13C8-PFOA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.5	6.728	02	2.5	6.843	03	2.5	6.615	04	2.5	5.567
05	2.5	6.53	06	2.5	6.971	07	2.5	6.314	08	2.5	8.064
09	2.5	7.134									

13C8-PFOS

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.5	1.096	02	2.5	1.087	03	2.5	1.047	04	2.5	0.8497
05	2.5	1.057	06	2.5	1.064	07	2.5	1.034	08	2.5	1.251
09	2.5	1.122									

13C9-PFNA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.25	1.17	02	1.25	1.185	03	1.25	1.14	04	1.25	0.9528
05	1.25	1.14	06	1.25	1.187	07	1.25	1.122	08	1.25	1.364
09	1.25	1.255									

1H, 1H, 2H, 2H-Perfluorodecanesulfonic acid (8:2 FTS)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.048	1.567	02	0.096	1.442	03	0.192	1.587	04	0.48	1.535
05	0.96	1.593	06	4.8	1.444	07	9.6	1.581	08	14.4	1.287
09	19.2	1.357									

1H, 1H, 2H, 2H-Perfluorohexanesulfonic acid (4:2 FTS)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0469	1.403	02	0.0937	1.276	03	0.187	1.368	04	0.469	1.268
05	0.937	1.314	06	4.69	1.224	07	9.37	1.358	08	14.1	1.045
09	18.7	1.147									

1H, 1H, 2H, 2H-Perfluorooctanesulfonic acid (6:2 FTS)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0476	1.106	02	0.0951	1.064	03	0.19	1.119	04	0.476	1.086
05	0.951	1.132	06	4.76	0.9887	07	9.51	1.098	08	14.3	0.8299
09	19	0.9292									

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2H,2H,3H,3H-Perfluorodecanoic acid (7:3 FTCA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.5	0.04988	02	1	0.05059	03	2	0.0575	04	5	0.05956
05	10	0.06713	06	15	0.05726	07	20	0.05977	08	40	0.04642
09	80	0.05553									

2H,2H,3H,3H-Perfluorooctanoic acid (5:3 FTCA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.5	0.05831	02	1	0.05705	03	2	0.06455	04	5	0.06517
05	10	0.06699	06	15	0.06221	07	20	0.06946	08	40	0.05489
09	80	0.06702									

4,4,5,5,6,6,6-Heptafluorohexanoic acid (3:3 FTCA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.5	0.01927	02	1	0.01906	03	2	0.02147	04	5	0.02205
05	10	0.02228	06	15	0.02058	07	20	0.02274	08	40	0.01772
09	80	0.02163									

4,8-Dioxa-3H-perfluorononanoic acid (DONA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0473	3.604	02	0.0945	3.648	03	0.189	3.981	04	0.473	3.872
05	0.945	4.043	06	4.73	3.534	07	9.45	3.989	08	14.2	2.991
09	18.9	3.24									

9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0467	1.344	02	0.0933	1.309	03	0.187	1.337	04	0.467	1.362
05	0.933	1.421	06	4.67	1.235	07	9.33	1.435	08	14	1.052
09	18.7	1.152									

D3-MeFOSA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.5	0.6143	02	2.5	0.6017	03	2.5	0.5994	04	2.5	0.4928
05	2.5	0.5963	06	2.5	0.611	07	2.5	0.6065	08	2.5	0.7515
09	2.5	0.6944									

D3-MeFOSAA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5	0.6494	02	5	0.6497	03	5	0.5801	04	5	0.4994
05	5	0.591	06	5	0.6263	07	5	0.5968	08	5	0.7261
09	5	0.6791									

D5-EtFOSA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.5	0.6835	02	2.5	0.6919	03	2.5	0.6924	04	2.5	0.5495
05	2.5	0.682	06	2.5	0.683	07	2.5	0.6888	08	2.5	0.8298
09	2.5	0.7623									

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D5-EtFOSAA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5	0.5351	02	5	0.5463	03	5	0.5186	04	5	0.4309
05	5	0.5059	06	5	0.5458	07	5	0.5272	08	5	0.6226
09	5	0.5749									

D7-MeFOSE

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	25	0.8534	02	25	0.8782	03	25	0.8357	04	25	0.6984
05	25	0.8401	06	25	0.8536	07	25	0.8496	08	25	1.063
09	25	0.9821									

D9-EtFOSE

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	25	0.7084	02	25	0.6991	03	25	0.6886	04	25	0.5805
05	25	0.6891	06	25	0.7111	07	25	0.7038	08	25	0.864
09	25	0.7885									

Hexafluoropropyleneoxide dimer acid (HFPO-DA) (GenX)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.05	1.045	02	0.1	0.9276	03	0.2	1.025	04	0.5	0.9882
05	1	1.037	06	5	0.9245	07	10	1.063	08	15	0.7835
09	20	0.8659									

N-Ethylperfluorooctane sulfonamide (EtFOSAm)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.05	1.606	02	0.1	1.535	03	0.2	1.526	04	0.5	1.555
05	1	1.524	06	5	1.444	07	10	1.564	08	15	1.265
09	20	1.409									

N-Ethylperfluorooctane sulfonamido acetic acid (NEtFOSAA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.05	0.8024	02	0.1	0.7101	03	0.2	0.9074	04	0.5	0.863
05	1	0.8917	06	5	0.7882	07	10	0.8567	08	15	0.7048
09	20	0.7622									

N-Ethylperfluorooctane sulfonamido ethanol (EtFOSE)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.05	1.342	02	0.1	1.332	03	0.2	1.348	04	0.5	1.248
05	1	1.308	06	5	1.215	07	10	1.294	08	15	1.037
09	20	1.138									

N-Methylperfluorooctane sulfonamide (MeFOSA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.05	1.316	02	0.1	1.37	03	0.2	1.285	04	0.5	1.297
05	1	1.332	06	5	1.244	07	10	1.376	08	15	1.069
09	20	1.179									

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N-Methylperfluorooctane sulfonamido acetic acid (NMeFOSAA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.05	0.7526	02	0.1	0.7137	03	0.2	0.8622	04	0.5	0.8411
05	1	0.912	06	5	0.7725	07	10	0.8486	08	15	0.6887
09	20	0.7279									

N-Methylperfluorooctane sulfonamido ethanol (MeFOSE)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.05	1.264	02	0.1	1.175	03	0.2	1.289	04	0.5	1.216
05	1	1.246	06	5	1.165	07	10	1.255	08	15	0.9797
09	20	1.08									

Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.05	0.6079	02	0.1	0.5693	03	0.2	0.5739	04	0.5	0.5556
05	1	0.5676	06	5	0.521	07	10	0.582	08	15	0.4502
09	20	0.4889									

Perfluoro(2-ethoxyethane) sulfonic acid (PFEESA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0445	1.111	02	0.089	1.075	03	0.178	1.132	04	0.445	1.107
05	0.89	1.141	06	4.45	1.056	07	8.9	1.17	08	13.4	0.8999
09	17.8	0.9843									

Perfluoro-3-methoxypropanoic acid (PFMPA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.05	0.8034	02	0.1	0.7657	03	0.2	0.8307	04	0.5	0.8075
05	1	0.8351	06	5	0.7759	07	10	0.8649	08	15	0.6528
09	20	0.7354									

Perfluoro-4-methoxybutanoic acid (PFMBA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.05	0.9538	02	0.1	0.9155	03	0.2	0.9818	04	0.5	0.9676
05	1	0.9816	06	5	0.9054	07	10	1.015	08	15	0.7775
09	20	0.8482									

Perfluorobutane sulfonic acid (PFBS)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0444	1.164	02	0.0887	1.206	03	0.177	1.208	04	0.444	1.217
05	0.887	1.235	06	4.44	1.136	07	8.87	1.268	08	13.3	0.9734
09	17.7	1.062									

Perfluorobutanoic acid (PFBA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.05	0.9459	02	0.1	0.887	03	0.2	0.9261	04	0.5	0.8866
05	1	0.9045	06	5	0.8317	07	10	0.9316	08	15	0.7161
09	20	0.7826									

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Perfluorodecane sulfonic acid (PFDS)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0483	1.007	02	0.0965	0.9106	03	0.193	0.9271	04	0.483	0.9215
05	0.965	0.9291	06	4.83	0.8609	07	9.65	0.9634	08	14.5	0.7285
09	19.3	0.8005									

Perfluorodecanoic acid (PFDA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.05	0.9791	02	0.1	0.9806	03	0.2	0.9709	04	0.5	0.9781
05	1	1.028	06	5	0.9185	07	10	1.051	08	15	0.7935
09	20	0.8735									

Perfluorododecane sulfonic acid (PFDoS)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0485	0.4045	02	0.097	0.3845	03	0.194	0.4068	04	0.485	0.4265
05	0.97	0.4196	06	4.85	0.385	07	9.7	0.426	08	14.6	0.3319
09	19.4	0.3619									

Perfluorododecanoic acid (PFDOA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.05	0.948	02	0.1	0.971	03	0.2	0.9638	04	0.5	0.9822
05	1	1.01	06	5	0.9241	07	10	1.025	08	15	0.776
09	20	0.8543									

Perfluoroheptane sulfonic acid (PFHpS)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0477	1.338	02	0.0953	1.23	03	0.191	1.41	04	0.477	1.342
05	0.953	1.386	06	4.77	1.275	07	9.53	1.34	08	14.3	1.025
09	19.1	1.094									

Perfluoroheptanoic acid (PFHpA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.05	1.009	02	0.1	0.9616	03	0.2	1.007	04	0.5	1.024
05	1	1.039	06	5	0.9544	07	10	1.085	08	15	0.8143
09	20	0.9048									

Perfluorohexane sulfonic acid (PFHxS)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0457	1.436	02	0.0914	1.276	03	0.183	1.263	04	0.457	1.194
05	0.914	1.213	06	4.57	1.126	07	9.14	1.232	08	13.7	0.9484
09	18.3	1.044									

Perfluorohexanoic acid (PFHxA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.05	0.9812	02	0.1	0.9194	03	0.2	0.9722	04	0.5	0.9387
05	1	0.9527	06	5	0.8855	07	10	0.9801	08	15	0.7607
09	20	0.8336									

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Perfluorononane sulfonic acid (PFNS)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0481	0.9947	02	0.0962	1.084	03	0.192	1.055	04	0.481	1.119
05	0.962	1.094	06	4.81	1.026	07	9.62	1.125	08	14.4	0.8708
09	19.2	0.9474									

Perfluorononanoic acid (PFNA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.05	0.8035	02	0.1	0.79	03	0.2	0.831	04	0.5	0.811
05	1	0.8362	06	5	0.7637	07	10	0.8487	08	15	0.6633
09	20	0.7097									

Perfluorooctane sulfonamide (PFOSAm)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.1	1	02	0.2	0.9559	03	0.4	0.9794	04	1	0.9685
05	2	1.019	06	10	0.9284	07	20	1.049	08	30	0.8058
09	40	0.8792									

Perfluorooctane sulfonic acid (PFOS)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0464	1.764	02	0.0928	1.337	03	0.186	1.306	04	0.464	1.266
05	0.928	1.243	06	4.64	1.117	07	9.28	1.255	08	13.9	0.9624
09	18.6	1.059									

Perfluorooctanoic acid (PFOA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.05	0.9774	02	0.1	0.8681	03	0.2	0.9059	04	0.5	0.9025
05	1	0.9074	06	5	0.825	07	10	0.9396	08	15	0.7065
09	20	0.7782									

Perfluoropentane sulfonic acid (PFPeS)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0471	1.586	02	0.0941	1.611	03	0.188	1.686	04	0.471	1.643
05	0.941	1.643	06	4.71	1.54	07	9.41	1.681	08	14.1	1.286
09	18.8	1.388									

Perfluoropentanoic acid (PFPeA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.05	0.9642	02	0.1	0.906	03	0.2	0.9356	04	0.5	0.9145
05	1	0.9187	06	5	0.8469	07	10	0.9495	08	15	0.7306
09	20	0.7962									

Perfluorotetradecanoic acid (PFTDA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.05	0.1114	02	0.1	0.1175	03	0.2	0.1111	04	0.5	0.1127
05	1	0.1213	06	5	0.108	07	10	0.1187	08	15	0.09357
09	20	0.09998									

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Perfluorotridecanoic acid (PFTrDA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.05	0.994	02	0.1	0.9773	03	0.2	0.9757	04	0.5	0.9813
05	1	1.026	06	5	0.9471	07	10	1.031	08	15	0.8016
09	20	0.8552									

Perfluoroundecanoic acid (PFUnDA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.05	0.838	02	0.1	0.8416	03	0.2	0.8464	04	0.5	0.8741
05	1	0.9078	06	5	0.8077	07	10	0.9258	08	15	0.6925
09	20	0.7769									

Client: ALS Environmental - Middletown **Service Request:** K2605119
Project: **Calibration Date:** 6/2/2026

Initial Calibration Summary
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Calibration ID: KC2600258 **Signal ID:** 1
Instrument ID: K-LCMS-10

Analyte Name	Compound Type	Calibration Evaluation				Calibration Evaluation	
		Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	TRG	Average RF	% RSD	8.5	≤20	0.8144	
13C2-4:2 FTS	SURR	Average RF	% RSD	7.9	≤20	0.3836	
13C2-6:2 FTS	SURR	Average RF	% RSD	8.8	≤20	0.2599	
13C2-8:2 FTS	SURR	Average RF	% RSD	8.4	≤20	0.2326	
13C2-PFDoDA	SURR	Average RF	% RSD	10.2	≤20	0.7677	
13C2-PFTeDA	SURR	Average RF	% RSD	10.0	≤20	0.4939	
13C3-HFPO-DA	SURR	Average RF	% RSD	11.1	≤20	0.3563	
13C3-PFBS	SURR	Average RF	% RSD	8.3	≤20	2.1	
13C3-PFHxS	SURR	Average RF	% RSD	9.1	≤20	1.255	
13C4-PFBA	SURR	Average RF	% RSD	9.5	≤20	1.171	
13C4-PFHpA	SURR	Average RF	% RSD	10.2	≤20	0.6562	
13C5-PFHxA	SURR	Average RF	% RSD	9.6	≤20	1.108	
13C5-PFPeA	SURR	Average RF	% RSD	10.5	≤20	0.7458	
13C6-PFDA	SURR	Average RF	% RSD	10.2	≤20	1.06	
13C7-PFUnDA	SURR	Average RF	% RSD	9.5	≤20	1.028	
13C8-FOSA	SURR	Average RF	% RSD	10.6	≤20	2.215	
13C8-PFOA	SURR	Average RF	% RSD	9.9	≤20	6.752	
13C8-PFOS	SURR	Average RF	% RSD	9.8	≤20	1.068	
13C9-PFNA	SURR	Average RF	% RSD	9.4	≤20	1.169	
1H, 1H, 2H, 2H-Perfluorodecanesulfonic acid (8:2 FTS)	TRG	Average RF	% RSD	7.5	≤20	1.488	
1H, 1H, 2H, 2H-Perfluorohexanesulfonic acid (4:2 FTS)	TRG	Average RF	% RSD	9.0	≤20	1.267	
1H, 1H, 2H, 2H-Perfluorooctanesulfonic acid (6:2 FTS)	TRG	Average RF	% RSD	9.9	≤20	1.039	
2H,2H,3H,3H-Perfluorodecanoic acid (7:3 FTCA)	TRG	Average RF	% RSD	11.2	≤20	0.05596	
2H,2H,3H,3H-Perfluorooctanoic acid (5:3 FTCA)	TRG	Average RF	% RSD	8.0	≤20	0.06285	
4,4,5,5,6,6,6-Heptafluorohexanoic acid (3:3 FTCA)	TRG	Average RF	% RSD	8.3	≤20	0.02075	
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	TRG	Average RF	% RSD	9.9	≤20	3.656	
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)	TRG	Average RF	% RSD	9.8	≤20	1.294	
D3-MeFOSA	SURR	Average RF	% RSD	11.5	≤20	0.6187	

Client: ALS Environmental - Middletown **Service Request:** K2605119
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Initial Calibration Summary
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Calibration ID: KC2600258 **Signal ID:** 1
Instrument ID: K-LCMS-10

		Calibration Evaluation				Calibration Evaluation	
Analyte Name	Compound Type	Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
D3-MeFOSAA	SURR	Average RF	% RSD	10.5	≤20	0.622	
D5-EtFOSA	SURR	Average RF	% RSD	10.7	≤20	0.6959	
D5-EtFOSAA	SURR	Average RF	% RSD	9.7	≤20	0.5341	
D7-MeFOSE	SURR	Average RF	% RSD	11.6	≤20	0.8727	
D9-EtFOSE	SURR	Average RF	% RSD	10.8	≤20	0.7148	
Hexafluoropropyleneoxide dimer acid (HFPO-DA) (GenX)	TRG	Average RF	% RSD	9.8	≤20	0.9622	
N-Ethylperfluorooctane sulfonamide (EtFOSAm)	TRG	Average RF	% RSD	7.0	≤20	1.492	
N-Ethylperfluorooctane sulfonamido acetic acid (NEtFOSAA)	TRG	Average RF	% RSD	9.3	≤20	0.8096	
N-Ethylperfluorooctane sulfonamido ethanol (EtFOSE)	TRG	Average RF	% RSD	8.4	≤20	1.251	
N-Methylperfluorooctane sulfonamide (MeFOSA)	TRG	Average RF	% RSD	7.7	≤20	1.274	
N-Methylperfluorooctane sulfonamido acetic acid (NMeFOSAA)	TRG	Average RF	% RSD	9.8	≤20	0.791	
N-Methylperfluorooctane sulfonamido ethanol (MeFOSE)	TRG	Linear	R2	0.9916	≥	1.185	
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	TRG	Average RF	% RSD	9.2	≤20	0.5463	
Perfluoro(2-ethoxyethane) sulfonic acid (PFEESA)	TRG	Average RF	% RSD	7.9	≤20	1.075	
Perfluoro-3-methoxypropanoic acid (PFMPA)	TRG	Average RF	% RSD	8.1	≤20	0.7857	
Perfluoro-4-methoxybutanoic acid (PFMBA)	TRG	Average RF	% RSD	8.1	≤20	0.9274	
Perfluorobutane sulfonic acid (PFBS)	TRG	Average RF	% RSD	8.0	≤20	1.163	
Perfluorobutanoic acid (PFBA)	TRG	Average RF	% RSD	8.8	≤20	0.868	
Perfluorodecane sulfonic acid (PFDS)	TRG	Average RF	% RSD	9.5	≤20	0.8943	
Perfluorodecanoic acid (PFDA)	TRG	Average RF	% RSD	8.3	≤20	0.9526	
Perfluorododecane sulfonic acid (PFDoS)	TRG	Linear	R2	0.9914	≥	0.3941	
Perfluorododecanoic acid (PFDOA)	TRG	Linear	R2	0.9893	≥	0.9394	
Perfluoroheptane sulfonic acid (PFHpS)	TRG	Average RF	% RSD	10.4	≤20	1.271	
Perfluoroheptanoic acid (PFHpA)	TRG	Average RF	% RSD	8.2	≤20	0.9776	
Perfluorohexane sulfonic acid (PFHxS)	TRG	Linear	R2	0.9907	≥	1.192	
Perfluorohexanoic acid (PFHxA)	TRG	Average RF	% RSD	8.2	≤20	0.9138	

Client: ALS Environmental - Middletown **Service Request:** K2605119
Project: **Calibration Date:** 6/2/2026

Initial Calibration Summary
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Calibration ID: KC2600258 **Signal ID:** 1
Instrument ID: K-LCMS-10

Analyte Name	Compound Type	Calibration Evaluation				Calibration Evaluation	
		Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
Perfluorononane sulfonic acid (PFNS)	TRG	Average RF	% RSD	8.2	≤20	1.035	
Perfluorononanoic acid (PFNA)	TRG	Average RF	% RSD	7.9	≤20	0.7841	
Perfluorooctane sulfonamide (PFOSAm)	TRG	Average RF	% RSD	7.8	≤20	0.954	
Perfluorooctane sulfonic acid (PFOS)	TRG	Linear	R2	0.9909	≥	1.257	
Perfluorooctanoic acid (PFOA)	TRG	Linear	R2	0.9890	≥	0.8678	
Perfluoropentane sulfonic acid (PFPeS)	TRG	Average RF	% RSD	8.8	≤20	1.563	
Perfluoropentanoic acid (PFPeA)	TRG	Average RF	% RSD	8.8	≤20	0.8847	
Perfluorotetradecanoic acid (PFTDA)	TRG	Average RF	% RSD	8.1	≤20	0.1105	
Perfluorotridecanoic acid (PFTrDA)	TRG	Linear	R2	0.9905	≥	0.9544	
Perfluoroundecanoic acid (PFUnDA)	TRG	Average RF	% RSD	8.4	≤20	0.8345	

Client: ALS Environmental - Middletown **Service Request:** K2605119
Project: **Calibration Date:** 6/2/2026

Initial Calibration Verification Summary
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Calibration ID: KC2600258 **Signal ID:** 1
Instrument ID: K-LCMS-10

#	Lab Code	Sample Name	File Location	Acquisition Date
10	KC2600258-10	PHENOVA ICV 25-OLC-03-57M	J:\LCMS10\DATA\260602_1633_NC\260531_1633_205.d	06/02/2026 19:02
11	KC2600258-11	ABS ICV 25-OLC-03-57O	J:\LCMS10\DATA\260602_1633_NC\260531_1633_206.d	06/02/2026 19:18
12	KC2600258-12	FTCA ICV 25-OLC-03-57P	J:\LCMS10\DATA\260602_1633_NC\260531_1633_207.d	06/02/2026 19:34

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
Perfluorobutane sulfonic acid (PFBS)	0.887	1.04	1.163E0	1.358E0	16.78	±30	Average RF
Perfluoropentane sulfonic acid (PFPeS)	0.941	1.03	1.563E0	1.712E0	9.53	±30	Average RF
Perfluorohexane sulfonic acid (PFHxS)	0.914	1.13	1.192E0	1.344E0	23.74	±30	Linear
Perfluoroheptane sulfonic acid (PFHpS)	0.953	1.12	1.271E0	1.493E0	17.48	±30	Average RF
Perfluorooctane sulfonic acid (PFOS)	0.928	0.951	1.257E0	1.185E0	2.46	±30	Linear
Perfluorononane sulfonic acid (PFNS)	0.962	0.984	1.035E0	1.058E0	2.24	±30	Average RF
Perfluorodecane sulfonic acid (PFDS)	0.965	0.968	8.943E-1	8.972E-1	0.320	±30	Average RF
Perfluorododecane sulfonic acid (PFDoS)	0.970	0.942	3.941E-1	3.639E-1	-2.922	±30	Linear
Perfluorobutanoic acid (PFBA)	1.00	0.874	8.68E-1	7.59E-1	-12.557	±30	Average RF
Perfluoropentanoic acid (PFPeA)	1.00	0.879	8.847E-1	7.776E-1	-12.101	±30	Average RF
Perfluorohexanoic acid (PFHxA)	1.00	0.880	9.138E-1	8.039E-1	-12.020	±30	Average RF
Perfluoroheptanoic acid (PFHpA)	1.00	0.889	9.776E-1	8.694E-1	-11.071	±30	Average RF
Perfluorooctanoic acid (PFOA)	1.00	0.886	8.678E-1	7.213E-1	-11.385	±30	Linear
Perfluorononanoic acid (PFNA)	1.00	0.968	7.841E-1	7.587E-1	-3.239	±30	Average RF
Perfluorodecanoic acid (PFDA)	1.00	0.924	9.526E-1	8.802E-1	-7.591	±30	Average RF
Perfluoroundecanoic acid (PFUnDA)	1.00	0.876	8.345E-1	7.313E-1	-12.372	±30	Average RF
Perfluorododecanoic acid (PFDOA)	1.00	0.820	9.394E-1	7.321E-1	-17.963	±30	Linear
Perfluorotridecanoic acid (PFTrDA)	1.00	0.852	9.544E-1	7.705E-1	-14.782	±30	Linear
Perfluorotetradecanoic acid (PFTDA)	1.00	0.948	1.105E-1	1.048E-1	-5.161	±30	Average RF
Perfluorooctane sulfonamide (PFOSAm)	1.00	0.861	9.54E-1	8.213E-1	-13.906	±30	Average RF
N-Methylperfluorooctane sulfonamide (MeFOSA)	1.00	0.704	1.274E0	8.976E-1	-29.554	±30	Average RF
N-Ethylperfluorooctane sulfonamide (EtFOSAm)	1.00	0.745	1.492E0	1.111E0	-25.539	±30	Average RF
N-Methylperfluorooctane sulfonamido ethanol (MeFOSE)	1.00	0.941	1.185E0	1.051E0	-5.905	±30	Linear
N-Ethylperfluorooctane sulfonamido ethanol (EtFOSE)	1.00	1.01	1.251E0	1.263E0	0.957	±30	Average RF
N-Methylperfluorooctane sulfonamido acetic acid (NMeFOSAA)	1.00	1.18	7.91E-1	9.344E-1	18.13	±30	Average RF
N-Ethylperfluorooctane sulfonamido acetic acid (NEtFOSAA)	1.00	0.980	8.096E-1	7.937E-1	-1.959	±30	Average RF
1H, 1H, 2H, 2H-Perfluorohexanesulfonic acid (4:2 FTS)	0.937	0.950	1.267E0	1.284E0	1.37	±30	Average RF
1H, 1H, 2H, 2H-Perfluorooctanesulfonic acid (6:2 FTS)	0.951	0.949	1.039E0	1.037E0	-0.251	±30	Average RF
1H, 1H, 2H, 2H-Perfluorodecanesulfonic acid (8:2 FTS)	0.960	1.01	1.488E0	1.559E0	4.74	±30	Average RF
4,4,5,5,6,6,6-Heptafluorohexanoic acid (3:3 FTCA)	20.0	20.2	2.075E-2	2.098E-2	1.08	±30	Average RF
2H,2H,3H,3H-Perfluorooctanoic acid (5:3 FTCA)	20.0	18.5	6.285E-2	5.804E-2	-7.655	±30	Average RF

QA/QC Report

Client: ALS Environmental - Middletown **Service Request:** K2605119
Project: **Calibration Date:** 6/2/2026

Initial Calibration Verification Summary
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Calibration ID: KC2600258 **Signal ID:** 1
Instrument ID: K-LCMS-10

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
2H,2H,3H,3H-Perfluorodecanoic acid (7:3 FTCA)	20.0	17.3	5.596E-2	4.834E-2	-13.623	±30	Average RF
Perfluoro(2-ethoxyethane) sulfonic acid (PFEESA)	0.890	0.971	1.075E0	1.174E0	9.15	±30	Average RF
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)	0.933	0.992	1.294E0	1.376E0	6.36	±30	Average RF
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	0.943	0.962	8.144E-1	8.308E-1	2.01	±30	Average RF
Perfluoro-3-methoxypropanoic acid (PFMPA)	1.00	0.877	7.857E-1	6.889E-1	-12.317	±30	Average RF
Perfluoro-4-methoxybutanoic acid (PFMBA)	1.00	0.823	9.274E-1	7.634E-1	-17.683	±30	Average RF
Hexafluoropropyleneoxide dimer acid (HFPO-DA) (GenX)	1.00	0.942	9.622E-1	9.059E-1	-5.849	±30	Average RF
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	1.00	0.911	5.463E-1	4.976E-1	-8.913	±30	Average RF
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	0.945	0.970	3.656E0	3.752E0	2.65	±30	Average RF

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
13C3-PFBS	2.50	2.57	2.1E0	2.158E0	2.74	±30	Average RF
13C3-PFBS	2.50	2.41	2.1E0	2.025E0	-3.550	±30	Average RF
13C3-PFBS	2.50	2.53	2.1E0	2.127E0	1.30	±30	Average RF
13C3-PFHxS	2.50	2.52	1.255E0	1.266E0	0.879	±30	Average RF
13C3-PFHxS	2.50	2.51	1.255E0	1.26E0	0.451	±30	Average RF
13C3-PFHxS	2.50	2.38	1.255E0	1.196E0	-4.645	±30	Average RF
13C8-PFOS	2.50	2.54	1.068E0	1.085E0	1.60	±30	Average RF
13C8-PFOS	2.50	2.49	1.068E0	1.063E0	-0.468	±30	Average RF
13C8-PFOS	2.50	2.36	1.068E0	1.01E0	-5.408	±30	Average RF
13C4-PFBA	10.0	10.0	1.171E0	1.174E0	0.246	±30	Average RF
13C4-PFBA	10.0	9.62	1.171E0	1.126E0	-3.843	±30	Average RF
13C4-PFBA	10.0	10.0	1.171E0	1.173E0	0.139	±30	Average RF
13C5-PFPeA	5.00	4.78	7.458E-1	7.126E-1	-4.450	±30	Average RF
13C5-PFPeA	5.00	5.00	7.458E-1	7.455E-1	-0.032	±30	Average RF
13C5-PFPeA	5.00	5.01	7.458E-1	7.478E-1	0.272	±30	Average RF
13C5-PFHxA	2.50	2.51	1.108E0	1.112E0	0.329	±30	Average RF
13C5-PFHxA	2.50	2.55	1.108E0	1.128E0	1.81	±30	Average RF
13C5-PFHxA	2.50	2.43	1.108E0	1.078E0	-2.743	±30	Average RF
13C4-PFHpA	2.50	2.53	6.562E-1	6.653E-1	1.39	±30	Average RF
13C4-PFHpA	2.50	2.52	6.562E-1	6.614E-1	0.791	±30	Average RF
13C4-PFHpA	2.50	2.39	6.562E-1	6.262E-1	-4.574	±30	Average RF
13C8-PFOA	2.50	2.49	6.752E0	6.735E0	-0.247	±30	Average RF

QA/QC Report

Client: ALS Environmental - Middletown **Service Request:** K2605119
Project: **Calibration Date:** 6/2/2026

Initial Calibration Verification Summary
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Calibration ID: KC2600258 **Signal ID:** 1
Instrument ID: K-LCMS-10

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
13C8-PFOA	2.50	2.44	6.752E0	6.598E0	-2.276	±30	Average RF
13C8-PFOA	2.50	2.55	6.752E0	6.893E0	2.09	±30	Average RF
13C9-PFNA	1.25	1.25	1.169E0	1.168E0	-0.021	±30	Average RF
13C9-PFNA	1.25	1.18	1.169E0	1.106E0	-5.323	±30	Average RF
13C9-PFNA	1.25	1.25	1.169E0	1.173E0	0.364	±30	Average RF
13C6-PFDA	1.25	1.26	1.06E0	1.072E0	1.12	±30	Average RF
13C6-PFDA	1.25	1.27	1.06E0	1.078E0	1.76	±30	Average RF
13C6-PFDA	1.25	1.22	1.06E0	1.033E0	-2.507	±30	Average RF
13C7-PFUnDA	1.25	1.26	1.028E0	1.034E0	0.605	±30	Average RF
13C7-PFUnDA	1.25	1.25	1.028E0	1.028E0	0.066	±30	Average RF
13C7-PFUnDA	1.25	1.21	1.028E0	9.973E-1	-2.952	±30	Average RF
13C2-PFDoDA	1.25	1.27	7.677E-1	7.82E-1	1.87	±30	Average RF
13C2-PFDoDA	1.25	1.25	7.677E-1	7.647E-1	-0.385	±30	Average RF
13C2-PFDoDA	1.25	1.18	7.677E-1	7.239E-1	-5.697	±30	Average RF
13C2-PFTeDA	1.25	1.22	4.939E-1	4.824E-1	-2.327	±30	Average RF
13C2-PFTeDA	1.25	1.25	4.939E-1	4.929E-1	-0.212	±30	Average RF
13C2-PFTeDA	1.25	1.17	4.939E-1	4.634E-1	-6.174	±30	Average RF
13C8-FOSA	2.50	2.42	2.215E0	2.149E0	-3.022	±30	Average RF
13C8-FOSA	2.50	2.37	2.215E0	2.103E0	-5.059	±30	Average RF
13C8-FOSA	2.50	2.45	2.215E0	2.173E0	-1.906	±30	Average RF
D3-MeFOSA	2.50	2.45	6.187E-1	6.058E-1	-2.087	±30	Average RF
D3-MeFOSA	2.50	2.42	6.187E-1	5.985E-1	-3.257	±30	Average RF
D3-MeFOSA	2.50	2.34	6.187E-1	5.786E-1	-6.478	±30	Average RF
D5-EtFOSA	2.50	2.41	6.959E-1	6.709E-1	-3.602	±30	Average RF
D5-EtFOSA	2.50	2.37	6.959E-1	6.598E-1	-5.192	±30	Average RF
D5-EtFOSA	2.50	2.40	6.959E-1	6.685E-1	-3.933	±30	Average RF
D7-MeFOSE	25.0	24.0	8.727E-1	8.386E-1	-3.905	±30	Average RF
D7-MeFOSE	25.0	24.7	8.727E-1	8.623E-1	-1.192	±30	Average RF
D7-MeFOSE	25.0	23.2	8.727E-1	8.098E-1	-7.213	±30	Average RF
D9-EtFOSE	25.0	24.7	7.148E-1	7.058E-1	-1.257	±30	Average RF
D9-EtFOSE	25.0	24.1	7.148E-1	6.886E-1	-3.658	±30	Average RF
D9-EtFOSE	25.0	23.1	7.148E-1	6.618E-1	-7.418	±30	Average RF
D3-MeFOSAA	5.00	5.07	6.22E-1	6.31E-1	1.46	±30	Average RF
D3-MeFOSAA	5.00	4.80	6.22E-1	5.968E-1	-4.052	±30	Average RF
D3-MeFOSAA	5.00	5.03	6.22E-1	6.261E-1	0.669	±30	Average RF
D5-EtFOSAA	5.00	4.85	5.341E-1	5.18E-1	-3.020	±30	Average RF

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: ALS Environmental - Middletown **Service Request:** K2605119
Project: **Calibration Date:** 6/2/2026

Initial Calibration Verification Summary
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Calibration ID: KC2600258 **Signal ID:** 1
Instrument ID: K-LCMS-10

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
D5-EtFOSAA	5.00	5.00	5.341E-1	5.339E-1	-0.054	±30	Average RF
D5-EtFOSAA	5.00	4.96	5.341E-1	5.3E-1	-0.771	±30	Average RF
13C2-4:2 FTS	5.00	5.13	3.836E-1	3.939E-1	2.67	±30	Average RF
13C2-4:2 FTS	5.00	4.94	3.836E-1	3.792E-1	-1.153	±30	Average RF
13C2-4:2 FTS	5.00	5.08	3.836E-1	3.898E-1	1.61	±30	Average RF
13C2-6:2 FTS	5.00	4.91	2.599E-1	2.551E-1	-1.844	±30	Average RF
13C2-6:2 FTS	5.00	5.10	2.599E-1	2.651E-1	2.02	±30	Average RF
13C2-6:2 FTS	5.00	5.16	2.599E-1	2.683E-1	3.24	±30	Average RF
13C2-8:2 FTS	5.00	5.42	2.326E-1	2.52E-1	8.33	±30	Average RF
13C2-8:2 FTS	5.00	5.33	2.326E-1	2.481E-1	6.66	±30	Average RF
13C2-8:2 FTS	5.00	5.10	2.326E-1	2.373E-1	2.04	±30	Average RF
13C3-HFPO-DA	10.0	9.98	3.563E-1	3.555E-1	-0.226	±30	Average RF
13C3-HFPO-DA	10.0	9.46	3.563E-1	3.369E-1	-5.429	±30	Average RF
13C3-HFPO-DA	10.0	10.1	3.563E-1	3.609E-1	1.31	±30	Average RF

Client: ALS Environmental - Middletown
Project:

Service Request: K2605119
Date Analyzed: 06/08/26 14:32

Continuing Calibration Verification (CCV) Summary
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: 1633
File ID: J:\LCMS10\DATA\260608_1633_B1\260608_1633_003.d
Signal ID: 1

Calibration Date: 6/2/2026
Calibration ID: KC2600258
Analysis Lot: 923079
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	Rec.	% Drift	Criteria	Curve Fit
Perfluorobutane sulfonic acid (PFBS)	0.0887	0.0890	1.1632	1.167	100	NA	±30	Average RF
Perfluoropentane sulfonic acid (PFPeS)	0.0941	0.0920	1.5627	1.5357	97.8	NA	±30	Average RF
Perfluorohexane sulfonic acid (PFHxS)	0.0914	0.0820	1.1925	1.2632	89.7	-10.3	±30	Linear
Perfluoroheptane sulfonic acid (PFHpS)	0.0953	0.103	1.2711	1.3799	108	NA	±30	Average RF
Perfluorooctane sulfonic acid (PFOS)	0.0928	0.0890	1.2567	1.3811	95.9	-4.1	±30	Linear
Perfluorononane sulfonic acid (PFNS)	0.0962	0.0930	1.0352	1.0051	96.7	NA	±30	Average RF
Perfluorodecane sulfonic acid (PFDS)	0.0965	0.0980	0.8943	0.9122	102	NA	±30	Average RF
Perfluorododecane sulfonic acid (PFDoS)	0.0970	0.0860	0.3941	0.3862	88.7	-11.3	±30	Linear
Perfluorobutanoic acid (PFBA)	0.100	0.101	0.868	0.8737	101	NA	±30	Average RF
Perfluoropentanoic acid (PFPeA)	0.100	0.103	0.8847	0.9097	103	NA	±30	Average RF
Perfluorohexanoic acid (PFHxA)	0.100	0.100	0.9138	0.9095	100	NA	±30	Average RF
Perfluoroheptanoic acid (PFHpA)	0.100	0.101	0.9776	0.9838	101	NA	±30	Average RF
Perfluorooctanoic acid (PFOA)	0.100	0.0860	0.8678	0.856	86.0	-14.0	±30	Linear
Perfluorononanoic acid (PFNA)	0.100	0.100	0.7841	0.7876	100	NA	±30	Average RF
Perfluorodecanoic acid (PFDA)	0.100	0.0990	0.9526	0.942	99.0	NA	±30	Average RF
Perfluoroundecanoic acid (PFUnDA)	0.100	0.0990	0.8345	0.8222	99.0	NA	±30	Average RF
Perfluorododecanoic acid (PFDOA)	0.100	0.0910	0.9394	0.945	91.0	-9.0	±30	Linear
Perfluorotridecanoic acid (PFTrDA)	0.100	0.0910	0.9544	9.092E4	91.0	-9.0	±30	Linear
Perfluorotetradecanoic acid (PFTDA)	0.100	0.102	0.1105	0.1128	102	NA	±30	Average RF
Perfluorooctane sulfonamide (PFOSAm)	0.200	0.203	0.954	0.9662	102	NA	±30	Average RF
N-Methylperfluorooctane sulfonamide (MeFOSA)	0.100	0.104	1.2741	1.3205	104	NA	±30	Average RF
N-Ethylperfluorooctane sulfonamide (EtFOSAm)	0.100	0.0980	1.492	1.4576	98.0	NA	±30	Average RF
N-Methylperfluorooctane sulfonamido ethanol (MeFOSE)	0.100	0.0890	1.1854	1.1832	89.0	-11.0	±30	Linear
N-Ethylperfluorooctane sulfonamido ethanol (EtFOSE)	0.100	0.107	1.2513	1.3414	107	NA	±30	Average RF
N-Methylperfluorooctane sulfonamido acetic acid (NMeFOSAA)	0.100	0.0990	0.791	0.7804	99.0	NA	±30	Average RF
N-Ethylperfluorooctane sulfonamido acetic acid (NEtFOSAA)	0.100	0.124	0.8096	1.0048	124	NA	±30	Average RF
1H, 1H, 2H, 2H-Perfluorohexanesulfonic acid (4:2 FTS)	0.0937	0.0990	1.2669	1.3431	106	NA	±30	Average RF
1H, 1H, 2H, 2H-Perfluorooctanesulfonic acid (6:2 FTS)	0.0951	0.0960	1.0391	1.0538	101	NA	±30	Average RF

Client: ALS Environmental - Middletown **Service Request:** K2605119
Project: **Date Analyzed:** 06/08/26 14:32

Continuing Calibration Verification (CCV) Summary
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: 1633 **Calibration Date:** 6/2/2026
File ID: J:\LCMS10\DATA\260608_1633_B1\260608_1633_003.d **Calibration ID:** KC2600258
Signal ID: 1 **Analysis Lot:** 923079
Units: ng/mL

1H, 1H, 2H, 2H-Perfluorodecanesulfonic acid (8:2 FTS)	0.0960	0.113	1.4882	1.7501	118	NA	±30	Average RF
4,4,5,5,6,6,6-Heptafluorohexanoic acid (3:3 FTCA)	1.00	0.964	0.0208	0.02	96.4	NA	±30	Average RF
2H,2H,3H,3H-Perfluorooctanoic acid (5:3 FTCA)	1.00	0.851	0.0628	0.0535	85.1	NA	±30	Average RF
2H,2H,3H,3H-Perfluorodecanoic acid (7:3 FTCA)	1.00	0.893	0.056	0.05	89.3	NA	±30	Average RF
Perfluoro(2-ethoxyethane) sulfonic acid (PFEESA)	0.0890	0.0890	1.0752	1.0793	100	NA	±30	Average RF
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)	0.0933	0.102	1.2942	1.411	109	NA	±30	Average RF
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	0.0943	0.102	0.8144	0.8783	108	NA	±30	Average RF
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.100	0.105	0.7857	0.8243	105	NA	±30	Average RF
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.100	0.101	0.9274	0.9402	101	NA	±30	Average RF
Hexafluoropropyleneoxide dimer acid (HFPO-DA) (GenX)	0.100	0.0990	0.9622	0.9479	99.0	NA	±30	Average RF
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.100	0.0970	0.5463	0.532	97.0	NA	±30	Average RF
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	0.0945	0.104	3.6556	4.0376	110	NA	±30	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	Rec.	% Drift	Criteria	Curve Fit
13C3-PFBS	2.50	2.47	2.1	2.0779	99.0	NA	±30	Average RF
13C3-PFHxS	2.50	2.54	1.2546	1.2743	102	NA	±30	Average RF
13C8-PFOS	2.50	2.55	1.0676	1.0893	102	NA	±30	Average RF
13C4-PFBA	10.0	10.1	1.1713	1.1864	101	NA	±30	Average RF
13C5-PFPeA	5.00	4.75	0.7458	0.7087	95.0	NA	±30	Average RF
13C5-PFHxA	2.50	2.52	1.1082	1.1188	101	NA	±30	Average RF
13C4-PFHpA	2.50	2.56	0.6562	0.6706	102	NA	±30	Average RF
13C8-PFOA	2.50	2.59	6.7517	6.9943	104	NA	±30	Average RF
13C9-PFNA	1.25	1.27	1.1685	1.1864	102	NA	±30	Average RF
13C6-PFDA	1.25	1.29	1.0597	1.0923	103	NA	±30	Average RF
13C7-PFUnDA	1.25	1.27	1.0276	1.0476	102	NA	±30	Average RF
13C2-PFDoDA	1.25	1.26	0.7677	0.7733	101	NA	±30	Average RF
13C2-PFTeDA	1.25	1.29	0.4939	0.5094	103	NA	±30	Average RF
13C8-FOSA	2.50	2.35	2.2155	2.0845	94.1	NA	±30	Average RF
D3-MeFOSA	2.50	2.40	0.6187	0.5943	96.0	NA	±30	Average RF

Client: ALS Environmental - Middletown
Project:

Service Request: K2605119
Date Analyzed: 06/08/26 14:32

Continuing Calibration Verification (CCV) Summary
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: 1633
File ID: J:\LCMS10\DATA\260608_1633_B1\260608_1633_003.d
Signal ID: 1

Calibration Date: 6/2/2026
Calibration ID: KC2600258
Analysis Lot: 923079
Units: ng/mL

D5-EtFOSA	2.50	2.40	0.6959	0.6681	96.0	NA	±30	Average RF
D7-MeFOSE	25.0	23.5	0.8727	0.8211	94.1	NA	±30	Average RF
D9-EtFOSE	25.0	23.6	0.7148	0.6753	94.5	NA	±30	Average RF
D3-MeFOSAA	5.00	4.96	0.622	0.6168	99.2	NA	±30	Average RF
D5-EtFOSAA	5.00	5.00	0.5341	0.5337	100	NA	±30	Average RF
13C2-4:2 FTS	5.00	4.95	0.3836	0.3798	99.0	NA	±30	Average RF
13C2-6:2 FTS	5.00	5.10	0.2599	0.2651	102	NA	±30	Average RF
13C2-8:2 FTS	5.00	5.48	0.2326	0.2551	110	NA	±30	Average RF
13C3-HFPO-DA	10.0	9.37	0.3563	0.334	93.7	NA	±30	Average RF

Client: ALS Environmental - Middletown
Project:

Service Request: K2605119
Date Analyzed: 06/08/26 19:56

Continuing Calibration Verification (CCV) Summary
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: 1633
File ID: J:\LCMS10\DATA\260608_1633_B1\260608_1633_023.d
Signal ID: 1

Calibration Date: 6/2/2026
Calibration ID: KC2600258
Analysis Lot: 923079
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	Rec.	% Drift	Criteria	Curve Fit
Perfluorobutane sulfonic acid (PFBS)	0.887	0.920	1.1632	1.2068	104	NA	±30	Average RF
Perfluoropentane sulfonic acid (PFPeS)	0.941	0.994	1.5627	1.651	106	NA	±30	Average RF
Perfluorohexane sulfonic acid (PFHxS)	0.914	0.980	1.1925	1.1687	107	7.2	±30	Linear
Perfluoroheptane sulfonic acid (PFHpS)	0.953	1.00	1.2711	1.3351	105	NA	±30	Average RF
Perfluorooctane sulfonic acid (PFOS)	0.928	0.943	1.2567	1.1749	102	1.6	±30	Linear
Perfluorononane sulfonic acid (PFNS)	0.962	1.00	1.0352	1.0795	104	NA	±30	Average RF
Perfluorodecane sulfonic acid (PFDS)	0.965	0.971	0.8943	0.9002	101	NA	±30	Average RF
Perfluorododecane sulfonic acid (PFDoS)	0.970	1.04	0.3941	0.4014	107	7.2	±30	Linear
Perfluorobutanoic acid (PFBA)	1.00	1.05	0.868	0.9071	105	NA	±30	Average RF
Perfluoropentanoic acid (PFPeA)	1.00	1.05	0.8847	0.9258	105	NA	±30	Average RF
Perfluorohexanoic acid (PFHxA)	1.00	1.06	0.9138	0.9672	106	NA	±30	Average RF
Perfluoroheptanoic acid (PFHpA)	1.00	1.07	0.9776	1.0499	107	NA	±30	Average RF
Perfluorooctanoic acid (PFOA)	1.00	1.11	0.8678	0.895	111	10.5	±30	Linear
Perfluorononanoic acid (PFNA)	1.00	1.05	0.7841	0.8242	105	NA	±30	Average RF
Perfluorodecanoic acid (PFDA)	1.00	1.06	0.9526	1.0051	106	NA	±30	Average RF
Perfluoroundecanoic acid (PFUnDA)	1.00	1.06	0.8345	0.8826	106	NA	±30	Average RF
Perfluorododecanoic acid (PFDOA)	1.00	1.11	0.9394	0.9832	111	10.8	±30	Linear
Perfluorotridecanoic acid (PFTrDA)	1.00	1.12	0.9544	8.566E4	112	12.1	±30	Linear
Perfluorotetradecanoic acid (PFTDA)	1.00	1.08	0.1105	0.1191	108	NA	±30	Average RF
Perfluorooctane sulfonamide (PFOSAm)	2.00	2.05	0.954	0.977	102	NA	±30	Average RF
N-Methylperfluorooctane sulfonamide (MeFOSA)	1.00	1.06	1.2741	1.3452	106	NA	±30	Average RF
N-Ethylperfluorooctane sulfonamide (EtFOSAm)	1.00	1.03	1.492	1.5308	103	NA	±30	Average RF
N-Methylperfluorooctane sulfonamido ethanol (MeFOSE)	1.00	1.12	1.1854	1.2436	112	11.6	±30	Linear
N-Ethylperfluorooctane sulfonamido ethanol (EtFOSE)	1.00	1.03	1.2513	1.283	103	NA	±30	Average RF
N-Methylperfluorooctane sulfonamido acetic acid (NMeFOSAA)	1.00	1.07	0.791	0.8423	107	NA	±30	Average RF
N-Ethylperfluorooctane sulfonamido acetic acid (NEtFOSAA)	1.00	1.12	0.8096	0.9025	112	NA	±30	Average RF
1H, 1H, 2H, 2H-Perfluorohexanesulfonic acid (4:2 FTS)	0.937	1.00	1.2669	1.3577	107	NA	±30	Average RF
1H, 1H, 2H, 2H-Perfluorooctanesulfonic acid (6:2 FTS)	0.951	1.03	1.0391	1.1209	108	NA	±30	Average RF

Client: ALS Environmental - Middletown
Project:

Service Request: K2605119
Date Analyzed: 06/08/26 19:56

Continuing Calibration Verification (CCV) Summary
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: 1633
File ID: J:\LCMS10\DATA\260608_1633_B1\260608_1633_023.d
Signal ID: 1

Calibration Date: 6/2/2026
Calibration ID: KC2600258
Analysis Lot: 923079
Units: ng/mL

1H, 1H, 2H, 2H-Perfluorodecanesulfonic acid (8:2 FTS)	0.960	1.07	1.4882	1.6508	111	NA	±30	Average RF
4,4,5,5,6,6,6-Heptafluorohexanoic acid (3:3 FTCA)	10.0	10.8	0.0208	0.0225	108	NA	±30	Average RF
2H,2H,3H,3H-Perfluorooctanoic acid (5:3 FTCA)	10.0	10.3	0.0628	0.0647	103	NA	±30	Average RF
2H,2H,3H,3H-Perfluorodecanoic acid (7:3 FTCA)	10.0	11.9	0.056	0.0665	119	NA	±30	Average RF
Perfluoro(2-ethoxyethane) sulfonic acid (PFEESA)	0.890	0.949	1.0752	1.147	107	NA	±30	Average RF
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)	0.933	1.06	1.2942	1.4633	113	NA	±30	Average RF
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	0.943	1.10	0.8144	0.9489	117	NA	±30	Average RF
Perfluoro-3-methoxypropanoic acid (PFMPA)	1.00	1.08	0.7857	0.8512	108	NA	±30	Average RF
Perfluoro-4-methoxybutanoic acid (PFMBA)	1.00	1.08	0.9274	1.0027	108	NA	±30	Average RF
Hexafluoropropyleneoxide dimer acid (HFPO-DA) (GenX)	1.00	1.02	0.9622	0.9847	102	NA	±30	Average RF
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	1.00	1.01	0.5463	0.5514	101	NA	±30	Average RF
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	0.945	1.08	3.6556	4.1931	115	NA	±30	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	Rec.	% Drift	Criteria	Curve Fit
13C3-PFBS	2.50	2.42	2.1	2.0341	96.9	NA	±30	Average RF
13C3-PFHxS	2.50	2.47	1.2546	1.24	98.8	NA	±30	Average RF
13C8-PFOS	2.50	2.46	1.0676	1.0518	98.5	NA	±30	Average RF
13C4-PFBA	10.0	9.71	1.1713	1.1377	97.1	NA	±30	Average RF
13C5-PFPeA	5.00	4.63	0.7458	0.6902	92.6	NA	±30	Average RF
13C5-PFHxA	2.50	2.40	1.1082	1.0638	96.0	NA	±30	Average RF
13C4-PFHpA	2.50	2.48	0.6562	0.6501	99.1	NA	±30	Average RF
13C8-PFOA	2.50	2.40	6.7517	6.4919	96.2	NA	±30	Average RF
13C9-PFNA	1.25	1.23	1.1685	1.154	98.7	NA	±30	Average RF
13C6-PFDA	1.25	1.22	1.0597	1.0363	97.8	NA	±30	Average RF
13C7-PFUnDA	1.25	1.23	1.0276	1.0086	98.2	NA	±30	Average RF
13C2-PFDoDA	1.25	1.23	0.7677	0.7556	98.4	NA	±30	Average RF
13C2-PFTeDA	1.25	1.19	0.4939	0.4716	95.5	NA	±30	Average RF
13C8-FOSA	2.50	2.29	2.2155	2.0256	91.4	NA	±30	Average RF
D3-MeFOSA	2.50	2.35	0.6187	0.5814	94.0	NA	±30	Average RF

Client: ALS Environmental - Middletown
Project:

Service Request: K2605119
Date Analyzed: 06/08/26 19:56

Continuing Calibration Verification (CCV) Summary
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: 1633
File ID: J:\LCMS10\DATA\260608_1633_B1\260608_1633_023.d
Signal ID: 1

Calibration Date: 6/2/2026
Calibration ID: KC2600258
Analysis Lot: 923079
Units: ng/mL

D5-EtFOSA	2.50	2.37	0.6959	0.6592	94.7	NA	±30	Average RF
D7-MeFOSE	25.0	22.0	0.8727	0.7683	88.0	NA	±30	Average RF
D9-EtFOSE	25.0	22.3	0.7148	0.6372	89.1	NA	±30	Average RF
D3-MeFOSAA	5.00	4.60	0.622	0.5719	92.0	NA	±30	Average RF
D5-EtFOSAA	5.00	4.64	0.5341	0.4955	92.8	NA	±30	Average RF
13C2-4:2 FTS	5.00	4.84	0.3836	0.3715	96.9	NA	±30	Average RF
13C2-6:2 FTS	5.00	5.03	0.2599	0.2611	101	NA	±30	Average RF
13C2-8:2 FTS	5.00	5.20	0.2326	0.2417	104	NA	±30	Average RF
13C3-HFPO-DA	10.0	9.13	0.3563	0.3252	91.3	NA	±30	Average RF

Client: ALS Environmental - Middletown
Project:

Service Request: K2605119
Date Analyzed: 06/09/26 00:31

Continuing Calibration Verification (CCV) Summary
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: 1633
File ID: J:\LCMS10\DATA\260608_1633_B1\260608_1633_040.d
Signal ID: 1

Calibration Date: 6/2/2026
Calibration ID: KC2600258
Analysis Lot: 923079
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	Rec.	% Drift	Criteria	Curve Fit
Perfluorobutane sulfonic acid (PFBS)	0.887	0.923	1.1632	1.2109	104	NA	±30	Average RF
Perfluoropentane sulfonic acid (PFPeS)	0.941	1.02	1.5627	1.6945	108	NA	±30	Average RF
Perfluorohexane sulfonic acid (PFHxS)	0.914	0.987	1.1925	1.1772	108	8.0	±30	Linear
Perfluoroheptane sulfonic acid (PFHpS)	0.953	1.06	1.2711	1.4112	111	NA	±30	Average RF
Perfluorooctane sulfonic acid (PFOS)	0.928	0.967	1.2567	1.205	104	4.2	±30	Linear
Perfluorononane sulfonic acid (PFNS)	0.962	0.979	1.0352	1.0533	102	NA	±30	Average RF
Perfluorodecane sulfonic acid (PFDS)	0.965	0.954	0.8943	0.8843	98.9	NA	±30	Average RF
Perfluorododecane sulfonic acid (PFDoS)	0.970	1.00	0.3941	0.3871	103	3.4	±30	Linear
Perfluorobutanoic acid (PFBA)	1.00	1.05	0.868	0.9077	105	NA	±30	Average RF
Perfluoropentanoic acid (PFPeA)	1.00	1.05	0.8847	0.9263	105	NA	±30	Average RF
Perfluorohexanoic acid (PFHxA)	1.00	1.05	0.9138	0.958	105	NA	±30	Average RF
Perfluoroheptanoic acid (PFHpA)	1.00	1.05	0.9776	1.0308	105	NA	±30	Average RF
Perfluorooctanoic acid (PFOA)	1.00	1.11	0.8678	0.9001	111	11.1	±30	Linear
Perfluorononanoic acid (PFNA)	1.00	1.06	0.7841	0.8339	106	NA	±30	Average RF
Perfluorodecanoic acid (PFDA)	1.00	1.05	0.9526	1.0035	105	NA	±30	Average RF
Perfluoroundecanoic acid (PFUnDA)	1.00	1.06	0.8345	0.8822	106	NA	±30	Average RF
Perfluorododecanoic acid (PFDOA)	1.00	1.12	0.9394	0.9915	112	11.7	±30	Linear
Perfluorotridecanoic acid (PFTrDA)	1.00	1.12	0.9544	6.488E4	112	11.6	±30	Linear
Perfluorotetradecanoic acid (PFTDA)	1.00	1.06	0.1105	0.1167	106	NA	±30	Average RF
Perfluorooctane sulfonamide (PFOSAm)	2.00	2.04	0.954	0.9725	102	NA	±30	Average RF
N-Methylperfluorooctane sulfonamide (MeFOSA)	1.00	1.06	1.2741	1.3536	106	NA	±30	Average RF
N-Ethylperfluorooctane sulfonamide (EtFOSAm)	1.00	1.03	1.492	1.5354	103	NA	±30	Average RF
N-Methylperfluorooctane sulfonamido ethanol (MeFOSE)	1.00	1.10	1.1854	1.2301	110	10.4	±30	Linear
N-Ethylperfluorooctane sulfonamido ethanol (EtFOSE)	1.00	1.01	1.2513	1.2685	101	NA	±30	Average RF
N-Methylperfluorooctane sulfonamido acetic acid (NMeFOSAA)	1.00	1.07	0.791	0.8436	107	NA	±30	Average RF
N-Ethylperfluorooctane sulfonamido acetic acid (NEtFOSAA)	1.00	1.03	0.8096	0.8361	103	NA	±30	Average RF
1H, 1H, 2H, 2H-Perfluorohexanesulfonic acid (4:2 FTS)	0.937	1.02	1.2669	1.3757	109	NA	±30	Average RF
1H, 1H, 2H, 2H-Perfluorooctanesulfonic acid (6:2 FTS)	0.951	1.05	1.0391	1.1493	111	NA	±30	Average RF

Client: ALS Environmental - Middletown
Project:

Service Request: K2605119
Date Analyzed: 06/09/26 00:31

Continuing Calibration Verification (CCV) Summary
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: 1633
File ID: J:\LCMS10\DATA\260608_1633_B1\260608_1633_040.d
Signal ID: 1

Calibration Date: 6/2/2026
Calibration ID: KC2600258
Analysis Lot: 923079
Units: ng/mL

1H, 1H, 2H, 2H-Perfluorodecanesulfonic acid (8:2 FTS)	0.960	1.03	1.4882	1.5911	107	NA	±30	Average RF
4,4,5,5,6,6,6-Heptafluorohexanoic acid (3:3 FTCA)	10.0	10.8	0.0208	0.0224	108	NA	±30	Average RF
2H,2H,3H,3H-Perfluorooctanoic acid (5:3 FTCA)	10.0	10.0	0.0628	0.0629	100	NA	±30	Average RF
2H,2H,3H,3H-Perfluorodecanoic acid (7:3 FTCA)	10.0	10.9	0.056	0.0608	109	NA	±30	Average RF
Perfluoro(2-ethoxyethane) sulfonic acid (PFEESA)	0.890	0.944	1.0752	1.1399	106	NA	±30	Average RF
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)	0.933	1.04	1.2942	1.4384	111	NA	±30	Average RF
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	0.943	1.03	0.8144	0.893	110	NA	±30	Average RF
Perfluoro-3-methoxypropanoic acid (PFMPA)	1.00	1.07	0.7857	0.839	107	NA	±30	Average RF
Perfluoro-4-methoxybutanoic acid (PFMBA)	1.00	1.07	0.9274	0.9889	107	NA	±30	Average RF
Hexafluoropropyleneoxide dimer acid (HFPO-DA) (GenX)	1.00	1.08	0.9622	1.0354	108	NA	±30	Average RF
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	1.00	1.00	0.5463	0.5466	100	NA	±30	Average RF
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	0.945	1.10	3.6556	4.2419	116	NA	±30	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	Rec.	% Drift	Criteria	Curve Fit
13C3-PFBS	2.50	2.54	2.1	2.1333	102	NA	±30	Average RF
13C3-PFHxS	2.50	2.43	1.2546	1.2168	97.0	NA	±30	Average RF
13C8-PFOS	2.50	2.46	1.0676	1.051	98.4	NA	±30	Average RF
13C4-PFBA	10.0	9.74	1.1713	1.1405	97.4	NA	±30	Average RF
13C5-PFPeA	5.00	4.75	0.7458	0.708	94.9	NA	±30	Average RF
13C5-PFHxA	2.50	2.41	1.1082	1.0687	96.4	NA	±30	Average RF
13C4-PFHpA	2.50	2.35	0.6562	0.6169	94.0	NA	±30	Average RF
13C8-PFOA	2.50	2.46	6.7517	6.6425	98.4	NA	±30	Average RF
13C9-PFNA	1.25	1.20	1.1685	1.1235	96.2	NA	±30	Average RF
13C6-PFDA	1.25	1.24	1.0597	1.051	99.2	NA	±30	Average RF
13C7-PFUnDA	1.25	1.20	1.0276	0.9854	95.9	NA	±30	Average RF
13C2-PFDoDA	1.25	1.15	0.7677	0.7085	92.3	NA	±30	Average RF
13C2-PFTeDA	1.25	1.11	0.4939	0.44	89.1	NA	±30	Average RF
13C8-FOSA	2.50	2.11	2.2155	1.8697	84.4	NA	±30	Average RF
D3-MeFOSA	2.50	2.49	0.6187	0.6159	99.6	NA	±30	Average RF

Client: ALS Environmental - Middletown
Project:

Service Request: K2605119
Date Analyzed: 06/09/26 00:31

Continuing Calibration Verification (CCV) Summary
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: 1633
File ID: J:\LCMS10\DATA\260608_1633_B1\260608_1633_040.d
Signal ID: 1

Calibration Date: 6/2/2026
Calibration ID: KC2600258
Analysis Lot: 923079
Units: ng/mL

D5-EtFOSA	2.50	2.55	0.6959	0.7095	102	NA	±30	Average RF
D7-MeFOSE	25.0	23.4	0.8727	0.8184	93.8	NA	±30	Average RF
D9-EtFOSE	25.0	24.2	0.7148	0.6919	96.8	NA	±30	Average RF
D3-MeFOSAA	5.00	4.49	0.622	0.558	89.7	NA	±30	Average RF
D5-EtFOSAA	5.00	4.60	0.5341	0.4918	92.1	NA	±30	Average RF
13C2-4:2 FTS	5.00	4.93	0.3836	0.3779	98.5	NA	±30	Average RF
13C2-6:2 FTS	5.00	5.02	0.2599	0.261	100	NA	±30	Average RF
13C2-8:2 FTS	5.00	5.25	0.2326	0.2443	105	NA	±30	Average RF
13C3-HFPO-DA	10.0	8.53	0.3563	0.3039	85.3	NA	±30	Average RF

Client: ALS Environmental - Middletown
Project:

Service Request: K2605119
Date Analyzed: 06/09/26 05:21

Continuing Calibration Verification (CCV) Summary
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: 1633
File ID: J:\LCMS10\DATA\260608_1633_B2\260608_1633_058.d
Signal ID: 1

Calibration Date: 6/2/2026
Calibration ID: KC2600258
Analysis Lot: 923269
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	Rec.	% Drift	Criteria	Curve Fit
Perfluorobutane sulfonic acid (PFBS)	0.887	0.923	1.1632	1.2105	104	NA	±30	Average RF
Perfluoropentane sulfonic acid (PFPeS)	0.941	1.01	1.5627	1.6837	108	NA	±30	Average RF
Perfluorohexane sulfonic acid (PFHxS)	0.914	0.981	1.1925	1.1698	107	7.3	±30	Linear
Perfluoroheptane sulfonic acid (PFHpS)	0.953	1.05	1.2711	1.3947	110	NA	±30	Average RF
Perfluorooctane sulfonic acid (PFOS)	0.928	0.961	1.2567	1.1974	104	3.6	±30	Linear
Perfluorononane sulfonic acid (PFNS)	0.962	1.04	1.0352	1.1133	108	NA	±30	Average RF
Perfluorodecane sulfonic acid (PFDS)	0.965	1.00	0.8943	0.9292	104	NA	±30	Average RF
Perfluorododecane sulfonic acid (PFDoS)	0.970	1.05	0.3941	0.4032	108	7.7	±30	Linear
Perfluorobutanoic acid (PFBA)	1.00	1.05	0.868	0.9094	105	NA	±30	Average RF
Perfluoropentanoic acid (PFPeA)	1.00	1.05	0.8847	0.9305	105	NA	±30	Average RF
Perfluorohexanoic acid (PFHxA)	1.00	1.04	0.9138	0.953	104	NA	±30	Average RF
Perfluoroheptanoic acid (PFHpA)	1.00	1.06	0.9776	1.0329	106	NA	±30	Average RF
Perfluorooctanoic acid (PFOA)	1.00	1.12	0.8678	0.9107	112	12.4	±30	Linear
Perfluorononanoic acid (PFNA)	1.00	1.06	0.7841	0.8347	106	NA	±30	Average RF
Perfluorodecanoic acid (PFDA)	1.00	1.05	0.9526	1.0011	105	NA	±30	Average RF
Perfluoroundecanoic acid (PFUnDA)	1.00	1.04	0.8345	0.8689	104	NA	±30	Average RF
Perfluorododecanoic acid (PFDOA)	1.00	1.15	0.9394	1.0154	115	14.5	±30	Linear
Perfluorotridecanoic acid (PFTrDA)	1.00	1.15	0.9544	7.116E4	115	14.5	±30	Linear
Perfluorotetradecanoic acid (PFTDA)	1.00	1.05	0.1105	0.1157	105	NA	±30	Average RF
Perfluorooctane sulfonamide (PFOSAm)	2.00	2.04	0.954	0.975	102	NA	±30	Average RF
N-Methylperfluorooctane sulfonamide (MeFOSA)	1.00	1.06	1.2741	1.3535	106	NA	±30	Average RF
N-Ethylperfluorooctane sulfonamide (EtFOSAm)	1.00	1.05	1.492	1.5658	105	NA	±30	Average RF
N-Methylperfluorooctane sulfonamido ethanol (MeFOSE)	1.00	1.10	1.1854	1.2283	110	10.3	±30	Linear
N-Ethylperfluorooctane sulfonamido ethanol (EtFOSE)	1.00	0.998	1.2513	1.2486	99.8	NA	±30	Average RF
N-Methylperfluorooctane sulfonamido acetic acid (NMeFOSAA)	1.00	1.01	0.791	0.8014	101	NA	±30	Average RF
N-Ethylperfluorooctane sulfonamido acetic acid (NEtFOSAA)	1.00	1.12	0.8096	0.9096	112	NA	±30	Average RF
1H, 1H, 2H, 2H-Perfluorohexanesulfonic acid (4:2 FTS)	0.937	1.01	1.2669	1.3608	107	NA	±30	Average RF
1H, 1H, 2H, 2H-Perfluorooctanesulfonic acid (6:2 FTS)	0.951	0.993	1.0391	1.0851	104	NA	±30	Average RF

Client: ALS Environmental - Middletown
Project:

Service Request: K2605119
Date Analyzed: 06/09/26 05:21

Continuing Calibration Verification (CCV) Summary
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: 1633
File ID: J:\LCMS10\DATA\260608_1633_B2\260608_1633_058.d
Signal ID: 1

Calibration Date: 6/2/2026
Calibration ID: KC2600258
Analysis Lot: 923269
Units: ng/mL

1H, 1H, 2H, 2H-Perfluorodecanesulfonic acid (8:2 FTS)	0.960	1.06	1.4882	1.6372	110	NA	±30	Average RF
4,4,5,5,6,6,6-Heptafluorohexanoic acid (3:3 FTCA)	10.0	10.6	0.0208	0.0221	106	NA	±30	Average RF
2H,2H,3H,3H-Perfluorooctanoic acid (5:3 FTCA)	10.0	10.0	0.0628	0.0631	100	NA	±30	Average RF
2H,2H,3H,3H-Perfluorodecanoic acid (7:3 FTCA)	10.0	10.8	0.056	0.0603	108	NA	±30	Average RF
Perfluoro(2-ethoxyethane) sulfonic acid (PFEESA)	0.890	0.944	1.0752	1.14	106	NA	±30	Average RF
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)	0.933	1.07	1.2942	1.4845	115	NA	±30	Average RF
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	0.943	1.09	0.8144	0.9386	115	NA	±30	Average RF
Perfluoro-3-methoxypropanoic acid (PFMPA)	1.00	1.06	0.7857	0.8339	106	NA	±30	Average RF
Perfluoro-4-methoxybutanoic acid (PFMBA)	1.00	1.05	0.9274	0.9778	105	NA	±30	Average RF
Hexafluoropropyleneoxide dimer acid (HFPO-DA) (GenX)	1.00	1.05	0.9622	1.0101	105	NA	±30	Average RF
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	1.00	0.991	0.5463	0.5415	99.1	NA	±30	Average RF
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	0.945	1.09	3.6556	4.2205	115	NA	±30	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	Rec.	% Drift	Criteria	Curve Fit
13C3-PFBS	2.50	2.49	2.1	2.0902	99.5	NA	±30	Average RF
13C3-PFHxS	2.50	2.43	1.2546	1.2188	97.2	NA	±30	Average RF
13C8-PFOS	2.50	2.37	1.0676	1.0099	94.6	NA	±30	Average RF
13C4-PFBA	10.0	9.72	1.1713	1.1381	97.2	NA	±30	Average RF
13C5-PFPeA	5.00	4.78	0.7458	0.7132	95.6	NA	±30	Average RF
13C5-PFHxA	2.50	2.45	1.1082	1.085	97.9	NA	±30	Average RF
13C4-PFHpA	2.50	2.42	0.6562	0.6359	96.9	NA	±30	Average RF
13C8-PFOA	2.50	2.39	6.7517	6.4523	95.6	NA	±30	Average RF
13C9-PFNA	1.25	1.22	1.1685	1.1377	97.4	NA	±30	Average RF
13C6-PFDA	1.25	1.22	1.0597	1.0355	97.8	NA	±30	Average RF
13C7-PFUnDA	1.25	1.21	1.0276	0.9921	96.6	NA	±30	Average RF
13C2-PFDoDA	1.25	1.16	0.7677	0.7119	92.7	NA	±30	Average RF
13C2-PFTeDA	1.25	1.17	0.4939	0.4639	93.9	NA	±30	Average RF
13C8-FOSA	2.50	2.18	2.2155	1.9295	87.1	NA	±30	Average RF
D3-MeFOSA	2.50	2.49	0.6187	0.616	99.6	NA	±30	Average RF

Client: ALS Environmental - Middletown
Project:

Service Request: K2605119
Date Analyzed: 06/09/26 05:21

Continuing Calibration Verification (CCV) Summary
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: 1633
File ID: J:\LCMS10\DATA\260608_1633_B2\260608_1633_058.d
Signal ID: 1

Calibration Date: 6/2/2026
Calibration ID: KC2600258
Analysis Lot: 923269
Units: ng/mL

D5-EtFOSA	2.50	2.51	0.6959	0.6991	100	NA	±30	Average RF
D7-MeFOSE	25.0	23.3	0.8727	0.8142	93.3	NA	±30	Average RF
D9-EtFOSE	25.0	23.6	0.7148	0.6761	94.6	NA	±30	Average RF
D3-MeFOSAA	5.00	4.45	0.622	0.5535	89.0	NA	±30	Average RF
D5-EtFOSAA	5.00	4.36	0.5341	0.4659	87.2	NA	±30	Average RF
13C2-4:2 FTS	5.00	5.06	0.3836	0.388	101	NA	±30	Average RF
13C2-6:2 FTS	5.00	5.24	0.2599	0.2725	105	NA	±30	Average RF
13C2-8:2 FTS	5.00	5.54	0.2326	0.2575	111	NA	±30	Average RF
13C3-HFPO-DA	10.0	8.69	0.3563	0.3095	86.9	NA	±30	Average RF

Client: ALS Environmental - Middletown
Project:

Service Request: K2605119
Date Analyzed: 06/09/26 08:35

Continuing Calibration Verification (CCV) Summary
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: 1633
File ID: J:\LCMS10\DATA\260608_1633_B2\260608_1633_070.d
Signal ID: 1

Calibration Date: 6/2/2026
Calibration ID: KC2600258
Analysis Lot: 923269
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	Rec.	% Drift	Criteria	Curve Fit
Perfluorobutane sulfonic acid (PFBS)	0.887	0.915	1.1632	1.1999	103	NA	±30	Average RF
Perfluoropentane sulfonic acid (PFPeS)	0.941	1.00	1.5627	1.6602	106	NA	±30	Average RF
Perfluorohexane sulfonic acid (PFHxS)	0.914	0.989	1.1925	1.1793	108	8.2	±30	Linear
Perfluoroheptane sulfonic acid (PFHpS)	0.953	1.01	1.2711	1.3454	106	NA	±30	Average RF
Perfluorooctane sulfonic acid (PFOS)	0.928	0.926	1.2567	1.1549	99.8	-0.2	±30	Linear
Perfluorononane sulfonic acid (PFNS)	0.962	1.00	1.0352	1.0803	104	NA	±30	Average RF
Perfluorodecane sulfonic acid (PFDS)	0.965	0.971	0.8943	0.9002	101	NA	±30	Average RF
Perfluorododecane sulfonic acid (PFDoS)	0.970	1.01	0.3941	0.389	104	3.9	±30	Linear
Perfluorobutanoic acid (PFBA)	1.00	1.05	0.868	0.9083	105	NA	±30	Average RF
Perfluoropentanoic acid (PFPeA)	1.00	1.05	0.8847	0.9272	105	NA	±30	Average RF
Perfluorohexanoic acid (PFHxA)	1.00	1.05	0.9138	0.9575	105	NA	±30	Average RF
Perfluoroheptanoic acid (PFHpA)	1.00	1.05	0.9776	1.0239	105	NA	±30	Average RF
Perfluorooctanoic acid (PFOA)	1.00	1.10	0.8678	0.8929	110	10.2	±30	Linear
Perfluorononanoic acid (PFNA)	1.00	1.05	0.7841	0.8222	105	NA	±30	Average RF
Perfluorodecanoic acid (PFDA)	1.00	1.08	0.9526	1.0289	108	NA	±30	Average RF
Perfluoroundecanoic acid (PFUnDA)	1.00	1.06	0.8345	0.8828	106	NA	±30	Average RF
Perfluorododecanoic acid (PFDOA)	1.00	1.12	0.9394	0.9974	112	12.4	±30	Linear
Perfluorotridecanoic acid (PFTrDA)	1.00	1.13	0.9544	7.443E4	113	12.5	±30	Linear
Perfluorotetradecanoic acid (PFTDA)	1.00	1.02	0.1105	0.1129	102	NA	±30	Average RF
Perfluorooctane sulfonamide (PFOSAm)	2.00	2.04	0.954	0.9742	102	NA	±30	Average RF
N-Methylperfluorooctane sulfonamide (MeFOSA)	1.00	1.04	1.2741	1.321	104	NA	±30	Average RF
N-Ethylperfluorooctane sulfonamide (EtFOSAm)	1.00	1.05	1.492	1.5708	105	NA	±30	Average RF
N-Methylperfluorooctane sulfonamido ethanol (MeFOSE)	1.00	1.10	1.1854	1.2293	110	10.3	±30	Linear
N-Ethylperfluorooctane sulfonamido ethanol (EtFOSE)	1.00	0.997	1.2513	1.2478	99.7	NA	±30	Average RF
N-Methylperfluorooctane sulfonamido acetic acid (NMeFOSAA)	1.00	1.04	0.791	0.825	104	NA	±30	Average RF
N-Ethylperfluorooctane sulfonamido acetic acid (NEtFOSAA)	1.00	1.03	0.8096	0.8345	103	NA	±30	Average RF
1H, 1H, 2H, 2H-Perfluorohexanesulfonic acid (4:2 FTS)	0.937	0.995	1.2669	1.3454	106	NA	±30	Average RF
1H, 1H, 2H, 2H-Perfluorooctanesulfonic acid (6:2 FTS)	0.951	1.01	1.0391	1.1066	107	NA	±30	Average RF

Client: ALS Environmental - Middletown
Project:

Service Request: K2605119
Date Analyzed: 06/09/26 08:35

Continuing Calibration Verification (CCV) Summary
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: 1633
File ID: J:\LCMS10\DATA\260608_1633_B2\260608_1633_070.d
Signal ID: 1

Calibration Date: 6/2/2026
Calibration ID: KC2600258
Analysis Lot: 923269
Units: ng/mL

1H, 1H, 2H, 2H-Perfluorodecanesulfonic acid (8:2 FTS)	0.960	1.08	1.4882	1.6709	112	NA	±30	Average RF
4,4,5,5,6,6,6-Heptafluorohexanoic acid (3:3 FTCA)	10.0	10.7	0.0208	0.0222	107	NA	±30	Average RF
2H,2H,3H,3H-Perfluorooctanoic acid (5:3 FTCA)	10.0	9.98	0.0628	0.0627	99.8	NA	±30	Average RF
2H,2H,3H,3H-Perfluorodecanoic acid (7:3 FTCA)	10.0	11.0	0.056	0.0615	110	NA	±30	Average RF
Perfluoro(2-ethoxyethane) sulfonic acid (PFEESA)	0.890	0.940	1.0752	1.1355	106	NA	±30	Average RF
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)	0.933	1.12	1.2942	1.5463	120	NA	±30	Average RF
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	0.943	1.13	0.8144	0.9714	119	NA	±30	Average RF
Perfluoro-3-methoxypropanoic acid (PFMPA)	1.00	1.08	0.7857	0.8504	108	NA	±30	Average RF
Perfluoro-4-methoxybutanoic acid (PFMBA)	1.00	1.05	0.9274	0.9761	105	NA	±30	Average RF
Hexafluoropropyleneoxide dimer acid (HFPO-DA) (GenX)	1.00	1.03	0.9622	0.9916	103	NA	±30	Average RF
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	1.00	0.990	0.5463	0.5407	99.0	NA	±30	Average RF
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	0.945	1.12	3.6556	4.3206	118	NA	±30	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	Rec.	% Drift	Criteria	Curve Fit
13C3-PFBS	2.50	2.48	2.1	2.087	99.4	NA	±30	Average RF
13C3-PFHxS	2.50	2.44	1.2546	1.225	97.6	NA	±30	Average RF
13C8-PFOS	2.50	2.50	1.0676	1.0663	100	NA	±30	Average RF
13C4-PFBA	10.0	9.71	1.1713	1.1378	97.1	NA	±30	Average RF
13C5-PFPeA	5.00	4.72	0.7458	0.7036	94.4	NA	±30	Average RF
13C5-PFHxA	2.50	2.42	1.1082	1.0729	96.8	NA	±30	Average RF
13C4-PFHpA	2.50	2.38	0.6562	0.6253	95.3	NA	±30	Average RF
13C8-PFOA	2.50	2.38	6.7517	6.4294	95.2	NA	±30	Average RF
13C9-PFNA	1.25	1.22	1.1685	1.1355	97.2	NA	±30	Average RF
13C6-PFDA	1.25	1.23	1.0597	1.0425	98.4	NA	±30	Average RF
13C7-PFUnDA	1.25	1.22	1.0276	1.0054	97.8	NA	±30	Average RF
13C2-PFDoDA	1.25	1.20	0.7677	0.7376	96.1	NA	±30	Average RF
13C2-PFTeDA	1.25	1.18	0.4939	0.4672	94.6	NA	±30	Average RF
13C8-FOSA	2.50	2.25	2.2155	1.9895	89.8	NA	±30	Average RF
D3-MeFOSA	2.50	2.56	0.6187	0.6336	102	NA	±30	Average RF

Client: ALS Environmental - Middletown
Project:

Service Request: K2605119
Date Analyzed: 06/09/26 08:35

Continuing Calibration Verification (CCV) Summary
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: 1633
File ID: J:\LCMS10\DATA\260608_1633_B2\260608_1633_070.d
Signal ID: 1

Calibration Date: 6/2/2026
Calibration ID: KC2600258
Analysis Lot: 923269
Units: ng/mL

D5-EtFOSA	2.50	2.51	0.6959	0.6994	101	NA	±30	Average RF
D7-MeFOSE	25.0	23.7	0.8727	0.8267	94.7	NA	±30	Average RF
D9-EtFOSE	25.0	24.1	0.7148	0.689	96.4	NA	±30	Average RF
D3-MeFOSAA	5.00	4.53	0.622	0.5629	90.5	NA	±30	Average RF
D5-EtFOSAA	5.00	4.57	0.5341	0.4886	91.5	NA	±30	Average RF
13C2-4:2 FTS	5.00	5.35	0.3836	0.4107	107	NA	±30	Average RF
13C2-6:2 FTS	5.00	5.34	0.2599	0.2774	107	NA	±30	Average RF
13C2-8:2 FTS	5.00	5.65	0.2326	0.2626	113	NA	±30	Average RF
13C3-HFPO-DA	10.0	8.45	0.3563	0.3011	84.5	NA	±30	Average RF

Client: ALS Environmental - Middletown
Project:

Service Request: K2605119
Date Analyzed: 06/09/26 01:03

Continuing Calibration Verification (CCV) Summary
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: 1633
File ID: J:\LCMS10\DATA\260608_1633_B2\260608_1633_042.d
Signal ID: 1

Calibration Date: 6/2/2026
Calibration ID: KC2600258
Analysis Lot: 923269
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	Rec.	% Drift	Criteria	Curve Fit
Perfluorobutane sulfonic acid (PFBS)	0.0887	0.0880	1.1632	1.1566	99.2	NA	±30	Average RF
Perfluoropentane sulfonic acid (PFPeS)	0.0941	0.0940	1.5627	1.5578	99.9	NA	±30	Average RF
Perfluorohexane sulfonic acid (PFHxS)	0.0914	0.0760	1.1925	1.1887	83.2	-16.8	±30	Linear
Perfluoroheptane sulfonic acid (PFHpS)	0.0953	0.0940	1.2711	1.2482	98.6	NA	±30	Average RF
Perfluorooctane sulfonic acid (PFOS)	0.0928	0.0820	1.2567	1.3013	88.4	-11.6	±30	Linear
Perfluorononane sulfonic acid (PFNS)	0.0962	0.0910	1.0352	0.9821	94.6	NA	±30	Average RF
Perfluorodecane sulfonic acid (PFDS)	0.0965	0.101	0.8943	0.9332	105	NA	±30	Average RF
Perfluorododecane sulfonic acid (PFDoS)	0.0970	0.0810	0.3941	0.3687	83.5	-16.5	±30	Linear
Perfluorobutanoic acid (PFBA)	0.100	0.101	0.868	0.8775	101	NA	±30	Average RF
Perfluoropentanoic acid (PFPeA)	0.100	0.102	0.8847	0.9047	102	NA	±30	Average RF
Perfluorohexanoic acid (PFHxA)	0.100	0.102	0.9138	0.9339	102	NA	±30	Average RF
Perfluoroheptanoic acid (PFHpA)	0.100	0.103	0.9776	1.0074	103	NA	±30	Average RF
Perfluorooctanoic acid (PFOA)	0.100	0.0920	0.8678	0.9014	92.0	-8.0	±30	Linear
Perfluorononanoic acid (PFNA)	0.100	0.101	0.7841	0.7897	101	NA	±30	Average RF
Perfluorodecanoic acid (PFDA)	0.100	0.100	0.9526	0.9487	100	NA	±30	Average RF
Perfluoroundecanoic acid (PFUnDA)	0.100	0.0960	0.8345	0.7989	96.0	NA	±30	Average RF
Perfluorododecanoic acid (PFDOA)	0.100	0.0910	0.9394	0.9512	91.0	-9.0	±30	Linear
Perfluorotridecanoic acid (PFTrDA)	0.100	0.0900	0.9544	7.584E4	90.0	-10.0	±30	Linear
Perfluorotetradecanoic acid (PFTDA)	0.100	0.0940	0.1105	0.1041	94.0	NA	±30	Average RF
Perfluorooctane sulfonamide (PFOSAm)	0.200	0.198	0.954	0.9435	99.0	NA	±30	Average RF
N-Methylperfluorooctane sulfonamide (MeFOSA)	0.100	0.104	1.2741	1.3309	104	NA	±30	Average RF
N-Ethylperfluorooctane sulfonamide (EtFOSAm)	0.100	0.102	1.492	1.5259	102	NA	±30	Average RF
N-Methylperfluorooctane sulfonamido ethanol (MeFOSE)	0.100	0.0900	1.1854	1.2011	90.0	-10.0	±30	Linear
N-Ethylperfluorooctane sulfonamido ethanol (EtFOSE)	0.100	0.107	1.2513	1.3447	107	NA	±30	Average RF
N-Methylperfluorooctane sulfonamido acetic acid (NMeFOSAA)	0.100	0.101	0.791	0.7975	101	NA	±30	Average RF
N-Ethylperfluorooctane sulfonamido acetic acid (NEtFOSAA)	0.100	0.100	0.8096	0.8068	100	NA	±30	Average RF
1H, 1H, 2H, 2H-Perfluorohexanesulfonic acid (4:2 FTS)	0.0937	0.0970	1.2669	1.3089	104	NA	±30	Average RF
1H, 1H, 2H, 2H-Perfluorooctanesulfonic acid (6:2 FTS)	0.0951	0.101	1.0391	1.1074	106	NA	±30	Average RF

Client: ALS Environmental - Middletown **Service Request:** K2605119
Project: **Date Analyzed:** 06/09/26 01:03

Continuing Calibration Verification (CCV) Summary
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: 1633 **Calibration Date:** 6/2/2026
File ID: J:\LCMS10\DATA\260608_1633_B2\260608_1633_042.d **Calibration ID:** KC2600258
Signal ID: 1 **Analysis Lot:** 923269
Units: ng/mL

1H, 1H, 2H, 2H-Perfluorodecanesulfonic acid (8:2 FTS)	0.0960	0.0980	1.4882	1.515	102	NA	±30	Average RF
4,4,5,5,6,6,6-Heptafluorohexanoic acid (3:3 FTCA)	1.00	0.910	0.0208	0.0189	91.0	NA	±30	Average RF
2H,2H,3H,3H-Perfluorooctanoic acid (5:3 FTCA)	1.00	0.820	0.0628	0.0515	82.0	NA	±30	Average RF
2H,2H,3H,3H-Perfluorodecanoic acid (7:3 FTCA)	1.00	0.810	0.056	0.0453	81.0	NA	±30	Average RF
Perfluoro(2-ethoxyethane) sulfonic acid (PFEESA)	0.0890	0.0850	1.0752	1.0292	95.5	NA	±30	Average RF
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)	0.0933	0.0990	1.2942	1.371	106	NA	±30	Average RF
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	0.0943	0.0980	0.8144	0.8484	104	NA	±30	Average RF
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.100	0.101	0.7857	0.7968	101	NA	±30	Average RF
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.100	0.101	0.9274	0.9329	101	NA	±30	Average RF
Hexafluoropropyleneoxide dimer acid (HFPO-DA) (GenX)	0.100	0.104	0.9622	0.9999	104	NA	±30	Average RF
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.100	0.0970	0.5463	0.5325	97.0	NA	±30	Average RF
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	0.0945	0.102	3.6556	3.9486	108	NA	±30	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	Rec.	% Drift	Criteria	Curve Fit
13C3-PFBS	2.50	2.56	2.1	2.1461	102	NA	±30	Average RF
13C3-PFHxS	2.50	2.51	1.2546	1.2592	100	NA	±30	Average RF
13C8-PFOS	2.50	2.52	1.0676	1.0743	101	NA	±30	Average RF
13C4-PFBA	10.0	10.1	1.1713	1.185	101	NA	±30	Average RF
13C5-PFPeA	5.00	4.87	0.7458	0.7263	97.4	NA	±30	Average RF
13C5-PFHxA	2.50	2.53	1.1082	1.1191	101	NA	±30	Average RF
13C4-PFHpA	2.50	2.49	0.6562	0.6529	99.5	NA	±30	Average RF
13C8-PFOA	2.50	2.50	6.7517	6.7539	100	NA	±30	Average RF
13C9-PFNA	1.25	1.29	1.1685	1.2014	103	NA	±30	Average RF
13C6-PFDA	1.25	1.28	1.0597	1.0888	103	NA	±30	Average RF
13C7-PFUnDA	1.25	1.26	1.0276	1.038	101	NA	±30	Average RF
13C2-PFDoDA	1.25	1.22	0.7677	0.7478	97.4	NA	±30	Average RF
13C2-PFTeDA	1.25	1.22	0.4939	0.4802	97.2	NA	±30	Average RF
13C8-FOSA	2.50	2.26	2.2155	2.0019	90.4	NA	±30	Average RF
D3-MeFOSA	2.50	2.48	0.6187	0.6135	99.2	NA	±30	Average RF

Client: ALS Environmental - Middletown
Project:

Service Request: K2605119
Date Analyzed: 06/09/26 01:03

Continuing Calibration Verification (CCV) Summary
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: 1633
File ID: J:\LCMS10\DATA\260608_1633_B2\260608_1633_042.d
Signal ID: 1

Calibration Date: 6/2/2026
Calibration ID: KC2600258
Analysis Lot: 923269
Units: ng/mL

D5-EtFOSA	2.50	2.47	0.6959	0.6881	98.9	NA	±30	Average RF
D7-MeFOSE	25.0	23.4	0.8727	0.8162	93.5	NA	±30	Average RF
D9-EtFOSE	25.0	23.7	0.7148	0.6774	94.8	NA	±30	Average RF
D3-MeFOSAA	5.00	4.82	0.622	0.5992	96.3	NA	±30	Average RF
D5-EtFOSAA	5.00	4.78	0.5341	0.5111	95.7	NA	±30	Average RF
13C2-4:2 FTS	5.00	5.11	0.3836	0.3918	102	NA	±30	Average RF
13C2-6:2 FTS	5.00	5.23	0.2599	0.2718	105	NA	±30	Average RF
13C2-8:2 FTS	5.00	5.60	0.2326	0.2607	112	NA	±30	Average RF
13C3-HFPO-DA	10.0	9.09	0.3563	0.324	90.9	NA	±30	Average RF

Client: ALS Environmental - Middletown
Project:

Service Request: K2605119
Date Analyzed: 06/09/26 01:19

Continuing Calibration Verification (CCV) Summary
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: 1633
File ID: J:\LCMS10\DATA\260608_1633_B2\260608_1633_043.d
Signal ID: 1

Calibration Date: 6/2/2026
Calibration ID: KC2600258
Analysis Lot: 923269
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	Rec.	% Drift	Criteria	Curve Fit
Perfluorobutane sulfonic acid (PFBS)	0.887	0.932	1.1632	1.2216	105	NA	±30	Average RF
Perfluoropentane sulfonic acid (PFPeS)	0.941	1.00	1.5627	1.6672	107	NA	±30	Average RF
Perfluorohexane sulfonic acid (PFHxS)	0.914	1.01	1.1925	1.1989	110	10.1	±30	Linear
Perfluoroheptane sulfonic acid (PFHpS)	0.953	1.02	1.2711	1.3622	107	NA	±30	Average RF
Perfluorooctane sulfonic acid (PFOS)	0.928	0.949	1.2567	1.1832	102	2.3	±30	Linear
Perfluorononane sulfonic acid (PFNS)	0.962	1.02	1.0352	1.1004	106	NA	±30	Average RF
Perfluorodecane sulfonic acid (PFDS)	0.965	0.968	0.8943	0.8973	100	NA	±30	Average RF
Perfluorododecane sulfonic acid (PFDoS)	0.970	1.03	0.3941	0.3958	106	5.7	±30	Linear
Perfluorobutanoic acid (PFBA)	1.00	1.05	0.868	0.908	105	NA	±30	Average RF
Perfluoropentanoic acid (PFPeA)	1.00	1.05	0.8847	0.9287	105	NA	±30	Average RF
Perfluorohexanoic acid (PFHxA)	1.00	1.05	0.9138	0.9563	105	NA	±30	Average RF
Perfluoroheptanoic acid (PFHpA)	1.00	1.06	0.9776	1.039	106	NA	±30	Average RF
Perfluorooctanoic acid (PFOA)	1.00	1.13	0.8678	0.9167	113	13.2	±30	Linear
Perfluorononanoic acid (PFNA)	1.00	1.07	0.7841	0.8352	107	NA	±30	Average RF
Perfluorodecanoic acid (PFDA)	1.00	1.06	0.9526	1.0055	106	NA	±30	Average RF
Perfluoroundecanoic acid (PFUnDA)	1.00	1.08	0.8345	0.8971	108	NA	±30	Average RF
Perfluorododecanoic acid (PFDOA)	1.00	1.13	0.9394	1.0005	113	12.8	±30	Linear
Perfluorotridecanoic acid (PFTrDA)	1.00	1.15	0.9544	7.893E4	115	14.8	±30	Linear
Perfluorotetradecanoic acid (PFTDA)	1.00	1.04	0.1105	0.1145	104	NA	±30	Average RF
Perfluorooctane sulfonamide (PFOSAm)	2.00	2.05	0.954	0.9767	102	NA	±30	Average RF
N-Methylperfluorooctane sulfonamide (MeFOSA)	1.00	1.05	1.2741	1.3317	105	NA	±30	Average RF
N-Ethylperfluorooctane sulfonamide (EtFOSAm)	1.00	1.04	1.492	1.5524	104	NA	±30	Average RF
N-Methylperfluorooctane sulfonamido ethanol (MeFOSE)	1.00	1.09	1.1854	1.2132	109	8.9	±30	Linear
N-Ethylperfluorooctane sulfonamido ethanol (EtFOSE)	1.00	1.01	1.2513	1.2659	101	NA	±30	Average RF
N-Methylperfluorooctane sulfonamido acetic acid (NMeFOSAA)	1.00	1.02	0.791	0.8032	102	NA	±30	Average RF
N-Ethylperfluorooctane sulfonamido acetic acid (NEtFOSAA)	1.00	1.13	0.8096	0.9163	113	NA	±30	Average RF
1H, 1H, 2H, 2H-Perfluorohexanesulfonic acid (4:2 FTS)	0.937	1.02	1.2669	1.3748	109	NA	±30	Average RF
1H, 1H, 2H, 2H-Perfluorooctanesulfonic acid (6:2 FTS)	0.951	0.975	1.0391	1.0654	103	NA	±30	Average RF

Client: ALS Environmental - Middletown
Project:

Service Request: K2605119
Date Analyzed: 06/09/26 01:19

Continuing Calibration Verification (CCV) Summary
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: 1633
File ID: J:\LCMS10\DATA\260608_1633_B2\260608_1633_043.d
Signal ID: 1

Calibration Date: 6/2/2026
Calibration ID: KC2600258
Analysis Lot: 923269
Units: ng/mL

1H, 1H, 2H, 2H-Perfluorodecanesulfonic acid (8:2 FTS)	0.960	1.04	1.4882	1.6042	108	NA	±30	Average RF
4,4,5,5,6,6,6-Heptafluorohexanoic acid (3:3 FTCA)	10.0	10.6	0.0208	0.0219	106	NA	±30	Average RF
2H,2H,3H,3H-Perfluorooctanoic acid (5:3 FTCA)	10.0	9.99	0.0628	0.0628	99.9	NA	±30	Average RF
2H,2H,3H,3H-Perfluorodecanoic acid (7:3 FTCA)	10.0	11.1	0.056	0.0623	111	NA	±30	Average RF
Perfluoro(2-ethoxyethane) sulfonic acid (PFEESA)	0.890	0.926	1.0752	1.119	104	NA	±30	Average RF
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)	0.933	1.08	1.2942	1.4962	116	NA	±30	Average RF
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	0.943	1.09	0.8144	0.9395	115	NA	±30	Average RF
Perfluoro-3-methoxypropanoic acid (PFMPA)	1.00	1.07	0.7857	0.8374	107	NA	±30	Average RF
Perfluoro-4-methoxybutanoic acid (PFMBA)	1.00	1.07	0.9274	0.9896	107	NA	±30	Average RF
Hexafluoropropyleneoxide dimer acid (HFPO-DA) (GenX)	1.00	1.08	0.9622	1.036	108	NA	±30	Average RF
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	1.00	0.989	0.5463	0.5402	98.9	NA	±30	Average RF
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	0.945	1.09	3.6556	4.2332	116	NA	±30	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	Rec.	% Drift	Criteria	Curve Fit
13C3-PFBS	2.50	2.49	2.1	2.0871	99.4	NA	±30	Average RF
13C3-PFHxS	2.50	2.46	1.2546	1.2353	98.5	NA	±30	Average RF
13C8-PFOS	2.50	2.47	1.0676	1.0529	98.6	NA	±30	Average RF
13C4-PFBA	10.0	9.73	1.1713	1.1398	97.3	NA	±30	Average RF
13C5-PFPeA	5.00	4.66	0.7458	0.6954	93.3	NA	±30	Average RF
13C5-PFHxA	2.50	2.42	1.1082	1.0706	96.6	NA	±30	Average RF
13C4-PFHpA	2.50	2.39	0.6562	0.627	95.6	NA	±30	Average RF
13C8-PFOA	2.50	2.42	6.7517	6.5219	96.6	NA	±30	Average RF
13C9-PFNA	1.25	1.21	1.1685	1.1286	96.6	NA	±30	Average RF
13C6-PFDA	1.25	1.21	1.0597	1.0268	96.9	NA	±30	Average RF
13C7-PFUnDA	1.25	1.21	1.0276	0.9912	96.5	NA	±30	Average RF
13C2-PFDoDA	1.25	1.17	0.7677	0.7195	93.8	NA	±30	Average RF
13C2-PFTeDA	1.25	1.17	0.4939	0.4616	93.4	NA	±30	Average RF
13C8-FOSA	2.50	2.26	2.2155	2.0025	90.4	NA	±30	Average RF
D3-MeFOSA	2.50	2.47	0.6187	0.6105	98.7	NA	±30	Average RF

Client: ALS Environmental - Middletown
Project:

Service Request: K2605119
Date Analyzed: 06/09/26 01:19

Continuing Calibration Verification (CCV) Summary
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: 1633
File ID: J:\LCMS10\DATA\260608_1633_B2\260608_1633_043.d
Signal ID: 1

Calibration Date: 6/2/2026
Calibration ID: KC2600258
Analysis Lot: 923269
Units: ng/mL

D5-EtFOSA	2.50	2.48	0.6959	0.6909	99.3	NA	±30	Average RF
D7-MeFOSE	25.0	23.6	0.8727	0.8229	94.3	NA	±30	Average RF
D9-EtFOSE	25.0	23.6	0.7148	0.6756	94.5	NA	±30	Average RF
D3-MeFOSAA	5.00	4.57	0.622	0.5683	91.4	NA	±30	Average RF
D5-EtFOSAA	5.00	4.58	0.5341	0.4893	91.6	NA	±30	Average RF
13C2-4:2 FTS	5.00	5.04	0.3836	0.3864	101	NA	±30	Average RF
13C2-6:2 FTS	5.00	5.28	0.2599	0.2745	106	NA	±30	Average RF
13C2-8:2 FTS	5.00	5.50	0.2326	0.2557	110	NA	±30	Average RF
13C3-HFPO-DA	10.0	8.72	0.3563	0.3105	87.2	NA	±30	Average RF

Client: ALS Environmental - Middletown
Project:

Service Request: K2605119
Date Analyzed: 06/09/26 09:07

Continuing Calibration Verification (CCV) Summary
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: 1633
File ID: J:\LCMS10\DATA\260608_1633_B3\260608_1633_072.d
Signal ID: 1

Calibration Date: 6/2/2026
Calibration ID: KC2600258
Analysis Lot: 923265
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	Rec.	% Drift	Criteria	Curve Fit
Perfluorobutane sulfonic acid (PFBS)	0.0887	0.0870	1.1632	1.1462	98.1	NA	±30	Average RF
Perfluoropentane sulfonic acid (PFPeS)	0.0941	0.0950	1.5627	1.5759	101	NA	±30	Average RF
Perfluorohexane sulfonic acid (PFHxS)	0.0914	0.0790	1.1925	1.2255	86.4	-13.6	±30	Linear
Perfluoroheptane sulfonic acid (PFHpS)	0.0953	0.0950	1.2711	1.2708	99.7	NA	±30	Average RF
Perfluorooctane sulfonic acid (PFOS)	0.0928	0.0840	1.2567	1.3204	90.5	-9.5	±30	Linear
Perfluorononane sulfonic acid (PFNS)	0.0962	0.0940	1.0352	1.0086	97.7	NA	±30	Average RF
Perfluorodecane sulfonic acid (PFDS)	0.0965	0.0910	0.8943	0.8389	94.3	NA	±30	Average RF
Perfluorododecane sulfonic acid (PFDoS)	0.0970	0.0820	0.3941	0.3697	84.5	-15.5	±30	Linear
Perfluorobutanoic acid (PFBA)	0.100	0.101	0.868	0.8799	101	NA	±30	Average RF
Perfluoropentanoic acid (PFPeA)	0.100	0.102	0.8847	0.8983	102	NA	±30	Average RF
Perfluorohexanoic acid (PFHxA)	0.100	0.103	0.9138	0.9397	103	NA	±30	Average RF
Perfluoroheptanoic acid (PFHpA)	0.100	0.0980	0.9776	0.9554	98.0	NA	±30	Average RF
Perfluorooctanoic acid (PFOA)	0.100	0.0900	0.8678	0.8873	90.0	-10.0	±30	Linear
Perfluorononanoic acid (PFNA)	0.100	0.0980	0.7841	0.77	98.0	NA	±30	Average RF
Perfluorodecanoic acid (PFDA)	0.100	0.100	0.9526	0.9485	100	NA	±30	Average RF
Perfluoroundecanoic acid (PFUnDA)	0.100	0.0980	0.8345	0.8142	98.0	NA	±30	Average RF
Perfluorododecanoic acid (PFDOA)	0.100	0.0900	0.9394	0.9407	90.0	-10.0	±30	Linear
Perfluorotridecanoic acid (PFTrDA)	0.100	0.0880	0.9544	7.701E4	88.0	-12.0	±30	Linear
Perfluorotetradecanoic acid (PFTDA)	0.100	0.102	0.1105	0.1132	102	NA	±30	Average RF
Perfluorooctane sulfonamide (PFOSAm)	0.200	0.202	0.954	0.9638	101	NA	±30	Average RF
N-Methylperfluorooctane sulfonamide (MeFOSA)	0.100	0.100	1.2741	1.2755	100	NA	±30	Average RF
N-Ethylperfluorooctane sulfonamide (EtFOSAm)	0.100	0.102	1.492	1.5292	102	NA	±30	Average RF
N-Methylperfluorooctane sulfonamido ethanol (MeFOSE)	0.100	0.0940	1.1854	1.2426	94.0	-6.0	±30	Linear
N-Ethylperfluorooctane sulfonamido ethanol (EtFOSE)	0.100	0.106	1.2513	1.3324	106	NA	±30	Average RF
N-Methylperfluorooctane sulfonamido acetic acid (NMeFOSAA)	0.100	0.0930	0.791	0.7367	93.0	NA	±30	Average RF
N-Ethylperfluorooctane sulfonamido acetic acid (NEtFOSAA)	0.100	0.114	0.8096	0.9222	114	NA	±30	Average RF
1H, 1H, 2H, 2H-Perfluorohexanesulfonic acid (4:2 FTS)	0.0937	0.105	1.2669	1.4254	112	NA	±30	Average RF
1H, 1H, 2H, 2H-Perfluorooctanesulfonic acid (6:2 FTS)	0.0951	0.0910	1.0391	0.9929	95.7	NA	±30	Average RF

Client: ALS Environmental - Middletown
Project:

Service Request: K2605119
Date Analyzed: 06/09/26 09:07

Continuing Calibration Verification (CCV) Summary
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: 1633
File ID: J:\LCMS10\DATA\260608_1633_B3\260608_1633_072.d
Signal ID: 1

Calibration Date: 6/2/2026
Calibration ID: KC2600258
Analysis Lot: 923265
Units: ng/mL

1H, 1H, 2H, 2H-Perfluorodecanesulfonic acid (8:2 FTS)	0.0960	0.103	1.4882	1.5986	107	NA	±30	Average RF
4,4,5,5,6,6,6-Heptafluorohexanoic acid (3:3 FTCA)	1.00	0.884	0.0208	0.0183	88.4	NA	±30	Average RF
2H,2H,3H,3H-Perfluorooctanoic acid (5:3 FTCA)	1.00	0.815	0.0628	0.0512	81.5	NA	±30	Average RF
2H,2H,3H,3H-Perfluorodecanoic acid (7:3 FTCA)	1.00	0.819	0.056	0.0458	81.9	NA	±30	Average RF
Perfluoro(2-ethoxyethane) sulfonic acid (PFEESA)	0.0890	0.0870	1.0752	1.0465	97.8	NA	±30	Average RF
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)	0.0933	0.102	1.2942	1.4212	109	NA	±30	Average RF
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	0.0943	0.102	0.8144	0.8842	108	NA	±30	Average RF
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.100	0.101	0.7857	0.7972	101	NA	±30	Average RF
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.100	0.101	0.9274	0.934	101	NA	±30	Average RF
Hexafluoropropyleneoxide dimer acid (HFPO-DA) (GenX)	0.100	0.103	0.9622	0.9899	103	NA	±30	Average RF
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.100	0.0980	0.5463	0.5378	98.0	NA	±30	Average RF
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	0.0945	0.101	3.6556	3.8955	107	NA	±30	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	Rec.	% Drift	Criteria	Curve Fit
13C3-PFBS	2.50	2.56	2.1	2.1484	102	NA	±30	Average RF
13C3-PFHxS	2.50	2.50	1.2546	1.2538	100	NA	±30	Average RF
13C8-PFOS	2.50	2.55	1.0676	1.0869	102	NA	±30	Average RF
13C4-PFBA	10.0	10.1	1.1713	1.1835	101	NA	±30	Average RF
13C5-PFPeA	5.00	4.89	0.7458	0.7292	97.8	NA	±30	Average RF
13C5-PFHxA	2.50	2.51	1.1082	1.1141	101	NA	±30	Average RF
13C4-PFHpA	2.50	2.53	0.6562	0.6634	101	NA	±30	Average RF
13C8-PFOA	2.50	2.52	6.7517	6.798	101	NA	±30	Average RF
13C9-PFNA	1.25	1.24	1.1685	1.1616	99.4	NA	±30	Average RF
13C6-PFDA	1.25	1.25	1.0597	1.0611	100	NA	±30	Average RF
13C7-PFUnDA	1.25	1.24	1.0276	1.0164	98.9	NA	±30	Average RF
13C2-PFDoDA	1.25	1.20	0.7677	0.7377	96.1	NA	±30	Average RF
13C2-PFTeDA	1.25	1.22	0.4939	0.482	97.6	NA	±30	Average RF
13C8-FOSA	2.50	2.31	2.2155	2.0439	92.2	NA	±30	Average RF
D3-MeFOSA	2.50	2.51	0.6187	0.6204	100	NA	±30	Average RF

Client: ALS Environmental - Middletown
Project:

Service Request: K2605119
Date Analyzed: 06/09/26 09:07

Continuing Calibration Verification (CCV) Summary
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: 1633
File ID: J:\LCMS10\DATA\260608_1633_B3\260608_1633_072.d
Signal ID: 1

Calibration Date: 6/2/2026
Calibration ID: KC2600258
Analysis Lot: 923265
Units: ng/mL

D5-EtFOSA	2.50	2.49	0.6959	0.6937	99.7	NA	±30	Average RF
D7-MeFOSE	25.0	23.6	0.8727	0.8222	94.2	NA	±30	Average RF
D9-EtFOSE	25.0	23.3	0.7148	0.6662	93.2	NA	±30	Average RF
D3-MeFOSAA	5.00	4.87	0.622	0.6059	97.4	NA	±30	Average RF
D5-EtFOSAA	5.00	4.86	0.5341	0.5195	97.3	NA	±30	Average RF
13C2-4:2 FTS	5.00	5.43	0.3836	0.4167	109	NA	±30	Average RF
13C2-6:2 FTS	5.00	5.52	0.2599	0.2868	110	NA	±30	Average RF
13C2-8:2 FTS	5.00	5.73	0.2326	0.2663	115	NA	±30	Average RF
13C3-HFPO-DA	10.0	9.12	0.3563	0.3248	91.2	NA	±30	Average RF

Client: ALS Environmental - Middletown
Project:

Service Request: K2605119
Date Analyzed: 06/09/26 09:23

Continuing Calibration Verification (CCV) Summary
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: 1633
File ID: J:\LCMS10\DATA\260608_1633_B3\260608_1633_073.d
Signal ID: 1

Calibration Date: 6/2/2026
Calibration ID: KC2600258
Analysis Lot: 923265
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	Rec.	% Drift	Criteria	Curve Fit
Perfluorobutane sulfonic acid (PFBS)	0.887	0.931	1.1632	1.2207	105	NA	±30	Average RF
Perfluoropentane sulfonic acid (PFPeS)	0.941	0.994	1.5627	1.6506	106	NA	±30	Average RF
Perfluorohexane sulfonic acid (PFHxS)	0.914	0.993	1.1925	1.1835	109	8.6	±30	Linear
Perfluoroheptane sulfonic acid (PFHpS)	0.953	1.01	1.2711	1.3442	106	NA	±30	Average RF
Perfluorooctane sulfonic acid (PFOS)	0.928	0.959	1.2567	1.1951	103	3.3	±30	Linear
Perfluorononane sulfonic acid (PFNS)	0.962	1.02	1.0352	1.0933	106	NA	±30	Average RF
Perfluorodecane sulfonic acid (PFDS)	0.965	0.994	0.8943	0.9217	103	NA	±30	Average RF
Perfluorododecane sulfonic acid (PFDoS)	0.970	1.04	0.3941	0.4011	107	7.1	±30	Linear
Perfluorobutanoic acid (PFBA)	1.00	1.05	0.868	0.9099	105	NA	±30	Average RF
Perfluoropentanoic acid (PFPeA)	1.00	1.05	0.8847	0.9269	105	NA	±30	Average RF
Perfluorohexanoic acid (PFHxA)	1.00	1.05	0.9138	0.9549	105	NA	±30	Average RF
Perfluoroheptanoic acid (PFHpA)	1.00	1.05	0.9776	1.0233	105	NA	±30	Average RF
Perfluorooctanoic acid (PFOA)	1.00	1.10	0.8678	0.8917	110	10.1	±30	Linear
Perfluorononanoic acid (PFNA)	1.00	1.05	0.7841	0.8268	105	NA	±30	Average RF
Perfluorodecanoic acid (PFDA)	1.00	1.06	0.9526	1.0056	106	NA	±30	Average RF
Perfluoroundecanoic acid (PFUnDA)	1.00	1.05	0.8345	0.8766	105	NA	±30	Average RF
Perfluorododecanoic acid (PFDOA)	1.00	1.13	0.9394	1	113	12.7	±30	Linear
Perfluorotridecanoic acid (PFTrDA)	1.00	1.12	0.9544	8.028E4	112	12.4	±30	Linear
Perfluorotetradecanoic acid (PFTDA)	1.00	1.05	0.1105	0.1161	105	NA	±30	Average RF
Perfluorooctane sulfonamide (PFOSAm)	2.00	2.04	0.954	0.9733	102	NA	±30	Average RF
N-Methylperfluorooctane sulfonamide (MeFOSA)	1.00	1.07	1.2741	1.3689	107	NA	±30	Average RF
N-Ethylperfluorooctane sulfonamide (EtFOSAm)	1.00	1.04	1.492	1.5554	104	NA	±30	Average RF
N-Methylperfluorooctane sulfonamido ethanol (MeFOSE)	1.00	1.10	1.1854	1.2262	110	10.1	±30	Linear
N-Ethylperfluorooctane sulfonamido ethanol (EtFOSE)	1.00	1.00	1.2513	1.2537	100	NA	±30	Average RF
N-Methylperfluorooctane sulfonamido acetic acid (NMeFOSAA)	1.00	1.03	0.791	0.8117	103	NA	±30	Average RF
N-Ethylperfluorooctane sulfonamido acetic acid (NEtFOSAA)	1.00	1.05	0.8096	0.8515	105	NA	±30	Average RF
1H, 1H, 2H, 2H-Perfluorohexanesulfonic acid (4:2 FTS)	0.937	1.00	1.2669	1.3558	107	NA	±30	Average RF
1H, 1H, 2H, 2H-Perfluorooctanesulfonic acid (6:2 FTS)	0.951	1.00	1.0391	1.0954	105	NA	±30	Average RF

Client: ALS Environmental - Middletown
Project:

Service Request: K2605119
Date Analyzed: 06/09/26 09:23

Continuing Calibration Verification (CCV) Summary
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: 1633
File ID: J:\LCMS10\DATA\260608_1633_B3\260608_1633_073.d
Signal ID: 1

Calibration Date: 6/2/2026
Calibration ID: KC2600258
Analysis Lot: 923265
Units: ng/mL

1H, 1H, 2H, 2H-Perfluorodecanesulfonic acid (8:2 FTS)	0.960	1.03	1.4882	1.6014	108	NA	±30	Average RF
4,4,5,5,6,6,6-Heptafluorohexanoic acid (3:3 FTCA)	10.0	10.4	0.0208	0.0216	104	NA	±30	Average RF
2H,2H,3H,3H-Perfluorooctanoic acid (5:3 FTCA)	10.0	9.59	0.0628	0.0603	95.9	NA	±30	Average RF
2H,2H,3H,3H-Perfluorodecanoic acid (7:3 FTCA)	10.0	10.9	0.056	0.061	109	NA	±30	Average RF
Perfluoro(2-ethoxyethane) sulfonic acid (PFEESA)	0.890	0.928	1.0752	1.1205	104	NA	±30	Average RF
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)	0.933	1.12	1.2942	1.5463	120	NA	±30	Average RF
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	0.943	1.15	0.8144	0.9926	122	NA	±30	Average RF
Perfluoro-3-methoxypropanoic acid (PFMPA)	1.00	1.07	0.7857	0.8411	107	NA	±30	Average RF
Perfluoro-4-methoxybutanoic acid (PFMBA)	1.00	1.06	0.9274	0.9867	106	NA	±30	Average RF
Hexafluoropropyleneoxide dimer acid (HFPO-DA) (GenX)	1.00	1.05	0.9622	1.0072	105	NA	±30	Average RF
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	1.00	0.992	0.5463	0.5418	99.2	NA	±30	Average RF
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	0.945	1.13	3.6556	4.3692	119	NA	±30	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	Rec.	% Drift	Criteria	Curve Fit
13C3-PFBS	2.50	2.46	2.1	2.0622	98.2	NA	±30	Average RF
13C3-PFHxS	2.50	2.43	1.2546	1.2196	97.2	NA	±30	Average RF
13C8-PFOS	2.50	2.41	1.0676	1.0297	96.4	NA	±30	Average RF
13C4-PFBA	10.0	9.73	1.1713	1.1399	97.3	NA	±30	Average RF
13C5-PFPeA	5.00	4.66	0.7458	0.6955	93.3	NA	±30	Average RF
13C5-PFHxA	2.50	2.43	1.1082	1.0748	97.0	NA	±30	Average RF
13C4-PFHpA	2.50	2.40	0.6562	0.6308	96.1	NA	±30	Average RF
13C8-PFOA	2.50	2.44	6.7517	6.5751	97.4	NA	±30	Average RF
13C9-PFNA	1.25	1.22	1.1685	1.1428	97.8	NA	±30	Average RF
13C6-PFDA	1.25	1.24	1.0597	1.0478	98.9	NA	±30	Average RF
13C7-PFUnDA	1.25	1.23	1.0276	1.0147	98.7	NA	±30	Average RF
13C2-PFDoDA	1.25	1.23	0.7677	0.7536	98.2	NA	±30	Average RF
13C2-PFTeDA	1.25	1.19	0.4939	0.4711	95.4	NA	±30	Average RF
13C8-FOSA	2.50	2.20	2.2155	1.953	88.2	NA	±30	Average RF
D3-MeFOSA	2.50	2.39	0.6187	0.5921	95.7	NA	±30	Average RF

Client: ALS Environmental - Middletown
Project:

Service Request: K2605119
Date Analyzed: 06/09/26 09:23

Continuing Calibration Verification (CCV) Summary
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: 1633
File ID: J:\LCMS10\DATA\260608_1633_B3\260608_1633_073.d
Signal ID: 1

Calibration Date: 6/2/2026
Calibration ID: KC2600258
Analysis Lot: 923265
Units: ng/mL

D5-EtFOSA	2.50	2.37	0.6959	0.6602	94.9	NA	±30	Average RF
D7-MeFOSE	25.0	22.1	0.8727	0.7703	88.3	NA	±30	Average RF
D9-EtFOSE	25.0	22.5	0.7148	0.6444	90.2	NA	±30	Average RF
D3-MeFOSAA	5.00	4.48	0.622	0.5577	89.7	NA	±30	Average RF
D5-EtFOSAA	5.00	4.49	0.5341	0.4801	89.9	NA	±30	Average RF
13C2-4:2 FTS	5.00	5.23	0.3836	0.4015	105	NA	±30	Average RF
13C2-6:2 FTS	5.00	5.19	0.2599	0.2696	104	NA	±30	Average RF
13C2-8:2 FTS	5.00	5.45	0.2326	0.2533	109	NA	±30	Average RF
13C3-HFPO-DA	10.0	8.50	0.3563	0.3029	85.0	NA	±30	Average RF

Client: ALS Environmental - Middletown
Project:

Service Request: K2605119
Date Analyzed: 06/09/26 16:13

Continuing Calibration Verification (CCV) Summary
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: 1633
File ID: J:\LCMS10\DATA\260608_1633_B3\260608_1633_097.d
Signal ID: 1

Calibration Date: 6/2/2026
Calibration ID: KC2600258
Analysis Lot: 923265
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	Rec.	% Drift	Criteria	Curve Fit
Perfluorobutane sulfonic acid (PFBS)	0.887	0.930	1.1632	1.22	105	NA	±30	Average RF
Perfluoropentane sulfonic acid (PFPeS)	0.941	1.03	1.5627	1.7056	109	NA	±30	Average RF
Perfluorohexane sulfonic acid (PFHxS)	0.914	1.03	1.1925	1.2307	113	13.0	±30	Linear
Perfluoroheptane sulfonic acid (PFHpS)	0.953	1.00	1.2711	1.3341	105	NA	±30	Average RF
Perfluorooctane sulfonic acid (PFOS)	0.928	0.923	1.2567	1.1505	99.5	-0.5	±30	Linear
Perfluorononane sulfonic acid (PFNS)	0.962	0.988	1.0352	1.0628	103	NA	±30	Average RF
Perfluorodecane sulfonic acid (PFDS)	0.965	0.962	0.8943	0.8918	99.7	NA	±30	Average RF
Perfluorododecane sulfonic acid (PFDoS)	0.970	1.03	0.3941	0.3967	106	6.0	±30	Linear
Perfluorobutanoic acid (PFBA)	1.00	1.04	0.868	0.9066	104	NA	±30	Average RF
Perfluoropentanoic acid (PFPeA)	1.00	1.05	0.8847	0.9272	105	NA	±30	Average RF
Perfluorohexanoic acid (PFHxA)	1.00	1.05	0.9138	0.9557	105	NA	±30	Average RF
Perfluoroheptanoic acid (PFHpA)	1.00	1.07	0.9776	1.0427	107	NA	±30	Average RF
Perfluorooctanoic acid (PFOA)	1.00	1.10	0.8678	0.8922	110	10.1	±30	Linear
Perfluorononanoic acid (PFNA)	1.00	1.05	0.7841	0.8266	105	NA	±30	Average RF
Perfluorodecanoic acid (PFDA)	1.00	1.05	0.9526	1.0011	105	NA	±30	Average RF
Perfluoroundecanoic acid (PFUnDA)	1.00	1.05	0.8345	0.8752	105	NA	±30	Average RF
Perfluorododecanoic acid (PFDOA)	1.00	1.12	0.9394	0.9942	112	12.0	±30	Linear
Perfluorotridecanoic acid (PFTrDA)	1.00	1.13	0.9544	8.098E4	113	13.0	±30	Linear
Perfluorotetradecanoic acid (PFTDA)	1.00	1.05	0.1105	0.1163	105	NA	±30	Average RF
Perfluorooctane sulfonamide (PFOSAm)	2.00	2.06	0.954	0.9816	103	NA	±30	Average RF
N-Methylperfluorooctane sulfonamide (MeFOSA)	1.00	1.05	1.2741	1.335	105	NA	±30	Average RF
N-Ethylperfluorooctane sulfonamide (EtFOSAm)	1.00	1.04	1.492	1.5544	104	NA	±30	Average RF
N-Methylperfluorooctane sulfonamido ethanol (MeFOSE)	1.00	1.11	1.1854	1.2338	111	10.8	±30	Linear
N-Ethylperfluorooctane sulfonamido ethanol (EtFOSE)	1.00	0.986	1.2513	1.234	98.6	NA	±30	Average RF
N-Methylperfluorooctane sulfonamido acetic acid (NMeFOSAA)	1.00	1.09	0.791	0.8644	109	NA	±30	Average RF
N-Ethylperfluorooctane sulfonamido acetic acid (NEtFOSAA)	1.00	1.05	0.8096	0.8469	105	NA	±30	Average RF
1H, 1H, 2H, 2H-Perfluorohexanesulfonic acid (4:2 FTS)	0.937	0.996	1.2669	1.3465	106	NA	±30	Average RF
1H, 1H, 2H, 2H-Perfluorooctanesulfonic acid (6:2 FTS)	0.951	1.02	1.0391	1.1092	107	NA	±30	Average RF

Client: ALS Environmental - Middletown
Project:
Service Request: K2605119
Date Analyzed: 06/09/26 16:13

Continuing Calibration Verification (CCV) Summary
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: 1633
File ID: J:\LCMS10\DATA\260608_1633_B3\260608_1633_097.d
Signal ID: 1
Calibration Date: 6/2/2026
Calibration ID: KC2600258
Analysis Lot: 923265
Units: ng/mL

1H, 1H, 2H, 2H-Perfluorodecanesulfonic acid (8:2 FTS)	0.960	1.01	1.4882	1.5632	105	NA	±30	Average RF
4,4,5,5,6,6,6-Heptafluorohexanoic acid (3:3 FTCA)	10.0	10.7	0.0208	0.0222	107	NA	±30	Average RF
2H,2H,3H,3H-Perfluorooctanoic acid (5:3 FTCA)	10.0	9.95	0.0628	0.0625	99.5	NA	±30	Average RF
2H,2H,3H,3H-Perfluorodecanoic acid (7:3 FTCA)	10.0	10.8	0.056	0.0606	108	NA	±30	Average RF
Perfluoro(2-ethoxyethane) sulfonic acid (PFEESA)	0.890	0.951	1.0752	1.1485	107	NA	±30	Average RF
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)	0.933	1.12	1.2942	1.5598	120	NA	±30	Average RF
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	0.943	1.17	0.8144	1.01	124	NA	±30	Average RF
Perfluoro-3-methoxypropanoic acid (PFMPA)	1.00	1.10	0.7857	0.86	110	NA	±30	Average RF
Perfluoro-4-methoxybutanoic acid (PFMBA)	1.00	1.08	0.9274	0.9975	108	NA	±30	Average RF
Hexafluoropropyleneoxide dimer acid (HFPO-DA) (GenX)	1.00	1.06	0.9622	1.0204	106	NA	±30	Average RF
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	1.00	0.996	0.5463	0.5442	99.6	NA	±30	Average RF
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	0.945	1.14	3.6556	4.3958	120	NA	±30	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	Rec.	% Drift	Criteria	Curve Fit
13C3-PFBS	2.50	2.48	2.1	2.0806	99.1	NA	±30	Average RF
13C3-PFHxS	2.50	2.40	1.2546	1.2055	96.1	NA	±30	Average RF
13C8-PFOS	2.50	2.49	1.0676	1.0627	99.6	NA	±30	Average RF
13C4-PFBA	10.0	9.72	1.1713	1.1381	97.2	NA	±30	Average RF
13C5-PFPeA	5.00	4.64	0.7458	0.6913	92.7	NA	±30	Average RF
13C5-PFHxA	2.50	2.41	1.1082	1.068	96.4	NA	±30	Average RF
13C4-PFHpA	2.50	2.40	0.6562	0.6288	95.8	NA	±30	Average RF
13C8-PFOA	2.50	2.41	6.7517	6.507	96.4	NA	±30	Average RF
13C9-PFNA	1.25	1.22	1.1685	1.1435	97.8	NA	±30	Average RF
13C6-PFDA	1.25	1.22	1.0597	1.0304	97.2	NA	±30	Average RF
13C7-PFUnDA	1.25	1.22	1.0276	1.0042	97.8	NA	±30	Average RF
13C2-PFDoDA	1.25	1.21	0.7677	0.7428	96.8	NA	±30	Average RF
13C2-PFTeDA	1.25	1.24	0.4939	0.4912	99.4	NA	±30	Average RF
13C8-FOSA	2.50	2.27	2.2155	2.0088	90.7	NA	±30	Average RF
D3-MeFOSA	2.50	2.42	0.6187	0.5999	97.0	NA	±30	Average RF

Client: ALS Environmental - Middletown
Project:

Service Request: K2605119
Date Analyzed: 06/09/26 16:13

Continuing Calibration Verification (CCV) Summary
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: 1633
File ID: J:\LCMS10\DATA\260608_1633_B3\260608_1633_097.d
Signal ID: 1

Calibration Date: 6/2/2026
Calibration ID: KC2600258
Analysis Lot: 923265
Units: ng/mL

D5-EtFOSA	2.50	2.43	0.6959	0.6766	97.2	NA	±30	Average RF
D7-MeFOSE	25.0	22.4	0.8727	0.7829	89.7	NA	±30	Average RF
D9-EtFOSE	25.0	23.1	0.7148	0.6599	92.3	NA	±30	Average RF
D3-MeFOSAA	5.00	4.45	0.622	0.5537	89.0	NA	±30	Average RF
D5-EtFOSAA	5.00	4.68	0.5341	0.4994	93.5	NA	±30	Average RF
13C2-4:2 FTS	5.00	4.98	0.3836	0.3819	99.6	NA	±30	Average RF
13C2-6:2 FTS	5.00	4.86	0.2599	0.2526	97.2	NA	±30	Average RF
13C2-8:2 FTS	5.00	5.22	0.2326	0.2428	104	NA	±30	Average RF
13C3-HFPO-DA	10.0	8.30	0.3563	0.2958	83.0	NA	±30	Average RF

Client: ALS Environmental - Middletown
Project:

Service Request: K2605119
Date Analyzed: 06/10/26 17:23

Continuing Calibration Verification (CCV) Summary
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: 1633
File ID: J:\LCMS10\DATA\260610_1633_B3\260610_1633-0025.d
Signal ID: 1

Calibration Date: 6/2/2026
Calibration ID: KC2600258
Analysis Lot: 923291
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	Rec.	% Drift	Criteria	Curve Fit
Perfluorobutane sulfonic acid (PFBS)	0.887	0.922	1.1632	1.209	104	NA	±30	Average RF
Perfluoropentane sulfonic acid (PFPeS)	0.941	0.988	1.5627	1.6403	105	NA	±30	Average RF
Perfluorohexane sulfonic acid (PFHxS)	0.914	1.00	1.1925	1.197	110	9.8	±30	Linear
Perfluoroheptane sulfonic acid (PFHpS)	0.953	1.01	1.2711	1.3457	106	NA	±30	Average RF
Perfluorooctane sulfonic acid (PFOS)	0.928	0.961	1.2567	1.1975	104	3.6	±30	Linear
Perfluorononane sulfonic acid (PFNS)	0.962	1.03	1.0352	1.1084	107	NA	±30	Average RF
Perfluorodecane sulfonic acid (PFDS)	0.965	0.997	0.8943	0.924	103	NA	±30	Average RF
Perfluorododecane sulfonic acid (PFDoS)	0.970	1.04	0.3941	0.4021	107	7.4	±30	Linear
Perfluorobutanoic acid (PFBA)	1.00	1.04	0.868	0.9033	104	NA	±30	Average RF
Perfluoropentanoic acid (PFPeA)	1.00	1.05	0.8847	0.931	105	NA	±30	Average RF
Perfluorohexanoic acid (PFHxA)	1.00	1.05	0.9138	0.9571	105	NA	±30	Average RF
Perfluoroheptanoic acid (PFHpA)	1.00	1.06	0.9776	1.0314	106	NA	±30	Average RF
Perfluorooctanoic acid (PFOA)	1.00	1.12	0.8678	0.907	112	12.0	±30	Linear
Perfluorononanoic acid (PFNA)	1.00	1.03	0.7841	0.8086	103	NA	±30	Average RF
Perfluorodecanoic acid (PFDA)	1.00	1.07	0.9526	1.0217	107	NA	±30	Average RF
Perfluoroundecanoic acid (PFUnDA)	1.00	1.07	0.8345	0.8927	107	NA	±30	Average RF
Perfluorododecanoic acid (PFDOA)	1.00	1.12	0.9394	0.995	112	12.1	±30	Linear
Perfluorotridecanoic acid (PFTrDA)	1.00	1.16	0.9544	9.733E4	116	16.1	±30	Linear
Perfluorotetradecanoic acid (PFTDA)	1.00	1.03	0.1105	0.1141	103	NA	±30	Average RF
Perfluorooctane sulfonamide (PFOSAm)	2.00	2.07	0.954	0.9873	104	NA	±30	Average RF
N-Methylperfluorooctane sulfonamide (MeFOSA)	1.00	1.06	1.2741	1.3466	106	NA	±30	Average RF
N-Ethylperfluorooctane sulfonamide (EtFOSAm)	1.00	1.03	1.492	1.5347	103	NA	±30	Average RF
N-Methylperfluorooctane sulfonamido ethanol (MeFOSE)	1.00	1.10	1.1854	1.2219	110	9.7	±30	Linear
N-Ethylperfluorooctane sulfonamido ethanol (EtFOSE)	1.00	1.01	1.2513	1.2609	101	NA	±30	Average RF
N-Methylperfluorooctane sulfonamido acetic acid (NMeFOSAA)	1.00	1.08	0.791	0.8502	108	NA	±30	Average RF
N-Ethylperfluorooctane sulfonamido acetic acid (NEtFOSAA)	1.00	1.04	0.8096	0.8405	104	NA	±30	Average RF
1H, 1H, 2H, 2H-Perfluorohexanesulfonic acid (4:2 FTS)	0.937	0.987	1.2669	1.3338	105	NA	±30	Average RF
1H, 1H, 2H, 2H-Perfluorooctanesulfonic acid (6:2 FTS)	0.951	0.982	1.0391	1.0728	103	NA	±30	Average RF

Client: ALS Environmental - Middletown
Project:

Service Request: K2605119
Date Analyzed: 06/10/26 17:23

Continuing Calibration Verification (CCV) Summary
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: 1633
File ID: J:\LCMS10\DATA\260610_1633_B3\260610_1633-0025.d
Signal ID: 1

Calibration Date: 6/2/2026
Calibration ID: KC2600258
Analysis Lot: 923291
Units: ng/mL

1H, 1H, 2H, 2H-Perfluorodecanesulfonic acid (8:2 FTS)	0.960	1.06	1.4882	1.646	111	NA	±30	Average RF
4,4,5,5,6,6,6-Heptafluorohexanoic acid (3:3 FTCA)	10.0	9.21	0.0208	0.0191	92.1	NA	±30	Average RF
2H,2H,3H,3H-Perfluorooctanoic acid (5:3 FTCA)	10.0	9.74	0.0628	0.0612	97.4	NA	±30	Average RF
2H,2H,3H,3H-Perfluorodecanoic acid (7:3 FTCA)	10.0	11.1	0.056	0.0623	111	NA	±30	Average RF
Perfluoro(2-ethoxyethane) sulfonic acid (PFEESA)	0.890	0.923	1.0752	1.115	104	NA	±30	Average RF
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)	0.933	1.11	1.2942	1.542	119	NA	±30	Average RF
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	0.943	1.16	0.8144	0.9991	123	NA	±30	Average RF
Perfluoro-3-methoxypropanoic acid (PFMPA)	1.00	0.952	0.7857	0.7476	95.2	NA	±30	Average RF
Perfluoro-4-methoxybutanoic acid (PFMBA)	1.00	1.02	0.9274	0.9462	102	NA	±30	Average RF
Hexafluoropropyleneoxide dimer acid (HFPO-DA) (GenX)	1.00	1.07	0.9622	1.025	107	NA	±30	Average RF
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	1.00	1.01	0.5463	0.5495	101	NA	±30	Average RF
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	0.945	1.14	3.6556	4.4151	121	NA	±30	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	Rec.	% Drift	Criteria	Curve Fit
13C3-PFBS	2.50	2.45	2.1	2.0557	97.9	NA	±30	Average RF
13C3-PFHxS	2.50	2.44	1.2546	1.2232	97.5	NA	±30	Average RF
13C8-PFOS	2.50	2.41	1.0676	1.0288	96.4	NA	±30	Average RF
13C4-PFBA	10.0	9.72	1.1713	1.1387	97.2	NA	±30	Average RF
13C5-PFPeA	5.00	4.86	0.7458	0.7249	97.2	NA	±30	Average RF
13C5-PFHxA	2.50	2.41	1.1082	1.0687	96.4	NA	±30	Average RF
13C4-PFHpA	2.50	2.41	0.6562	0.6329	96.4	NA	±30	Average RF
13C8-PFOA	2.50	2.39	6.7517	6.4569	95.6	NA	±30	Average RF
13C9-PFNA	1.25	1.22	1.1685	1.1401	97.6	NA	±30	Average RF
13C6-PFDA	1.25	1.22	1.0597	1.0301	97.2	NA	±30	Average RF
13C7-PFUnDA	1.25	1.24	1.0276	1.0173	99.0	NA	±30	Average RF
13C2-PFDoDA	1.25	1.17	0.7677	0.7179	93.5	NA	±30	Average RF
13C2-PFTeDA	1.25	1.23	0.4939	0.4865	98.5	NA	±30	Average RF
13C8-FOSA	2.50	2.27	2.2155	2.0112	90.8	NA	±30	Average RF
D3-MeFOSA	2.50	2.25	0.6187	0.5562	89.9	NA	±30	Average RF

Client: ALS Environmental - Middletown
Project:

Service Request: K2605119
Date Analyzed: 06/10/26 17:23

Continuing Calibration Verification (CCV) Summary
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: 1633
File ID: J:\LCMS10\DATA\260610_1633_B3\260610_1633-0025.d
Signal ID: 1

Calibration Date: 6/2/2026
Calibration ID: KC2600258
Analysis Lot: 923291
Units: ng/mL

D5-EtFOSA	2.50	2.28	0.6959	0.6339	91.1	NA	±30	Average RF
D7-MeFOSE	25.0	21.0	0.8727	0.7333	84.0	NA	±30	Average RF
D9-EtFOSE	25.0	20.7	0.7148	0.593	83.0	NA	±30	Average RF
D3-MeFOSAA	5.00	4.29	0.622	0.5342	85.9	NA	±30	Average RF
D5-EtFOSAA	5.00	4.46	0.5341	0.4764	89.2	NA	±30	Average RF
13C2-4:2 FTS	5.00	4.60	0.3836	0.3529	92.0	NA	±30	Average RF
13C2-6:2 FTS	5.00	4.79	0.2599	0.2489	95.8	NA	±30	Average RF
13C2-8:2 FTS	5.00	4.98	0.2326	0.2315	99.5	NA	±30	Average RF
13C3-HFPO-DA	10.0	8.47	0.3563	0.3018	84.7	NA	±30	Average RF

Client: ALS Environmental - Middletown
Project:

Service Request: K2605119
Date Analyzed: 06/10/26 21:24

Continuing Calibration Verification (CCV) Summary
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: 1633
File ID: J:\LCMS10\DATA\260610_1633_B3\260610_1633-0040.d
Signal ID: 1

Calibration Date: 6/2/2026
Calibration ID: KC2600258
Analysis Lot: 923291
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	Rec.	% Drift	Criteria	Curve Fit
Perfluorobutane sulfonic acid (PFBS)	0.887	0.917	1.1632	1.2024	103	NA	±30	Average RF
Perfluoropentane sulfonic acid (PFPeS)	0.941	1.01	1.5627	1.6709	107	NA	±30	Average RF
Perfluorohexane sulfonic acid (PFHxS)	0.914	0.995	1.1925	1.1862	109	8.9	±30	Linear
Perfluoroheptane sulfonic acid (PFHpS)	0.953	1.02	1.2711	1.364	107	NA	±30	Average RF
Perfluorooctane sulfonic acid (PFOS)	0.928	0.945	1.2567	1.1778	102	1.8	±30	Linear
Perfluorononane sulfonic acid (PFNS)	0.962	0.996	1.0352	1.0721	104	NA	±30	Average RF
Perfluorodecane sulfonic acid (PFDS)	0.965	0.972	0.8943	0.9011	101	NA	±30	Average RF
Perfluorododecane sulfonic acid (PFDoS)	0.970	1.01	0.3941	0.3905	104	4.3	±30	Linear
Perfluorobutanoic acid (PFBA)	1.00	1.05	0.868	0.9078	105	NA	±30	Average RF
Perfluoropentanoic acid (PFPeA)	1.00	1.05	0.8847	0.929	105	NA	±30	Average RF
Perfluorohexanoic acid (PFHxA)	1.00	1.05	0.9138	0.9579	105	NA	±30	Average RF
Perfluoroheptanoic acid (PFHpA)	1.00	1.05	0.9776	1.0231	105	NA	±30	Average RF
Perfluorooctanoic acid (PFOA)	1.00	1.09	0.8678	0.8852	109	9.2	±30	Linear
Perfluorononanoic acid (PFNA)	1.00	1.06	0.7841	0.8302	106	NA	±30	Average RF
Perfluorodecanoic acid (PFDA)	1.00	1.04	0.9526	0.9856	104	NA	±30	Average RF
Perfluoroundecanoic acid (PFUnDA)	1.00	1.07	0.8345	0.8919	107	NA	±30	Average RF
Perfluorododecanoic acid (PFDOA)	1.00	1.14	0.9394	1.0145	114	14.4	±30	Linear
Perfluorotridecanoic acid (PFTrDA)	1.00	1.21	0.9544	9.307E4	121	20.9	±30	Linear
Perfluorotetradecanoic acid (PFTDA)	1.00	1.03	0.1105	0.1134	103	NA	±30	Average RF
Perfluorooctane sulfonamide (PFOSAm)	2.00	2.04	0.954	0.9733	102	NA	±30	Average RF
N-Methylperfluorooctane sulfonamide (MeFOSA)	1.00	1.04	1.2741	1.3295	104	NA	±30	Average RF
N-Ethylperfluorooctane sulfonamide (EtFOSAm)	1.00	1.04	1.492	1.5451	104	NA	±30	Average RF
N-Methylperfluorooctane sulfonamido ethanol (MeFOSE)	1.00	1.09	1.1854	1.2099	109	8.6	±30	Linear
N-Ethylperfluorooctane sulfonamido ethanol (EtFOSE)	1.00	0.964	1.2513	1.2069	96.4	NA	±30	Average RF
N-Methylperfluorooctane sulfonamido acetic acid (NMeFOSAA)	1.00	1.08	0.791	0.8557	108	NA	±30	Average RF
N-Ethylperfluorooctane sulfonamido acetic acid (NEtFOSAA)	1.00	1.03	0.8096	0.8323	103	NA	±30	Average RF
1H, 1H, 2H, 2H-Perfluorohexanesulfonic acid (4:2 FTS)	0.937	1.00	1.2669	1.3523	107	NA	±30	Average RF
1H, 1H, 2H, 2H-Perfluorooctanesulfonic acid (6:2 FTS)	0.951	0.976	1.0391	1.0667	103	NA	±30	Average RF

Client: ALS Environmental - Middletown
Project:
Service Request: K2605119
Date Analyzed: 06/10/26 21:24

Continuing Calibration Verification (CCV) Summary
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: 1633
File ID: J:\LCMS10\DATA\260610_1633_B3\260610_1633-0040.d
Signal ID: 1
Calibration Date: 6/2/2026
Calibration ID: KC2600258
Analysis Lot: 923291
Units: ng/mL

1H, 1H, 2H, 2H-Perfluorodecanesulfonic acid (8:2 FTS)	0.960	1.05	1.4882	1.6333	110	NA	±30	Average RF
4,4,5,5,6,6,6-Heptafluorohexanoic acid (3:3 FTCA)	10.0	9.66	0.0208	0.0201	96.6	NA	±30	Average RF
2H,2H,3H,3H-Perfluorooctanoic acid (5:3 FTCA)	10.0	9.81	0.0628	0.0616	98.1	NA	±30	Average RF
2H,2H,3H,3H-Perfluorodecanoic acid (7:3 FTCA)	10.0	10.8	0.056	0.0602	108	NA	±30	Average RF
Perfluoro(2-ethoxyethane) sulfonic acid (PFEESA)	0.890	0.947	1.0752	1.1442	106	NA	±30	Average RF
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)	0.933	1.19	1.2942	1.65	127	NA	±30	Average RF
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	0.943	1.23	0.8144	1.0636	131*	NA	±30	Average RF
Perfluoro-3-methoxypropanoic acid (PFMPA)	1.00	0.972	0.7857	0.7639	97.2	NA	±30	Average RF
Perfluoro-4-methoxybutanoic acid (PFMBA)	1.00	1.05	0.9274	0.9688	105	NA	±30	Average RF
Hexafluoropropyleneoxide dimer acid (HFPO-DA) (GenX)	1.00	1.09	0.9622	1.0515	109	NA	±30	Average RF
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	1.00	0.998	0.5463	0.5453	99.8	NA	±30	Average RF
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	0.945	1.16	3.6556	4.4741	122	NA	±30	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	Rec.	% Drift	Criteria	Curve Fit
13C3-PFBS	2.50	2.52	2.1	2.1132	101	NA	±30	Average RF
13C3-PFHxS	2.50	2.42	1.2546	1.212	96.6	NA	±30	Average RF
13C8-PFOS	2.50	2.43	1.0676	1.0387	97.3	NA	±30	Average RF
13C4-PFBA	10.0	9.71	1.1713	1.1371	97.1	NA	±30	Average RF
13C5-PFPeA	5.00	4.82	0.7458	0.7187	96.4	NA	±30	Average RF
13C5-PFHxA	2.50	2.45	1.1082	1.0875	98.2	NA	±30	Average RF
13C4-PFHpA	2.50	2.43	0.6562	0.6367	97.0	NA	±30	Average RF
13C8-PFOA	2.50	2.40	6.7517	6.4883	96.1	NA	±30	Average RF
13C9-PFNA	1.25	1.22	1.1685	1.1388	97.4	NA	±30	Average RF
13C6-PFDA	1.25	1.25	1.0597	1.0554	100	NA	±30	Average RF
13C7-PFUnDA	1.25	1.26	1.0276	1.0342	101	NA	±30	Average RF
13C2-PFDoDA	1.25	1.18	0.7677	0.7214	94.0	NA	±30	Average RF
13C2-PFTeDA	1.25	1.33	0.4939	0.526	106	NA	±30	Average RF
13C8-FOSA	2.50	2.12	2.2155	1.875	84.6	NA	±30	Average RF
D3-MeFOSA	2.50	2.42	0.6187	0.5979	96.6	NA	±30	Average RF

Client: ALS Environmental - Middletown
Project:

Service Request: K2605119
Date Analyzed: 06/10/26 21:24

Continuing Calibration Verification (CCV) Summary
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: 1633
File ID: J:\LCMS10\DATA\260610_1633_B3\260610_1633-0040.d
Signal ID: 1

Calibration Date: 6/2/2026
Calibration ID: KC2600258
Analysis Lot: 923291
Units: ng/mL

D5-EtFOSA	2.50	2.60	0.6959	0.7247	104	NA	±30	Average RF
D7-MeFOSE	25.0	23.2	0.8727	0.8089	92.7	NA	±30	Average RF
D9-EtFOSE	25.0	25.0	0.7148	0.7136	100	NA	±30	Average RF
D3-MeFOSAA	5.00	4.22	0.622	0.5252	84.4	NA	±30	Average RF
D5-EtFOSAA	5.00	4.66	0.5341	0.4979	93.2	NA	±30	Average RF
13C2-4:2 FTS	5.00	4.54	0.3836	0.3479	90.7	NA	±30	Average RF
13C2-6:2 FTS	5.00	4.62	0.2599	0.2403	92.5	NA	±30	Average RF
13C2-8:2 FTS	5.00	4.73	0.2326	0.2201	94.6	NA	±30	Average RF
13C3-HFPO-DA	10.0	8.22	0.3563	0.2928	82.2	NA	±30	Average RF

Client: ALS Environmental - Middletown
Project:
Service Request: K2605119
Date Analyzed: 06/10/26 11:37

Continuing Calibration Verification (CCV) Summary
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: 1633
File ID: J:\LCMS10\DATA\260610_1633_B3\260610_1633-0004.d
Signal ID: 1
Calibration Date: 6/2/2026
Calibration ID: KC2600258
Analysis Lot: 923291
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	Rec.	% Drift	Criteria	Curve Fit
Perfluorobutane sulfonic acid (PFBS)	0.0887	0.0900	1.1632	1.1743	101	NA	±30	Average RF
Perfluoropentane sulfonic acid (PFPeS)	0.0941	0.0960	1.5627	1.5891	102	NA	±30	Average RF
Perfluorohexane sulfonic acid (PFHxS)	0.0914	0.0780	1.1925	1.2091	85.3	-14.7	±30	Linear
Perfluoroheptane sulfonic acid (PFHpS)	0.0953	0.0990	1.2711	1.3222	104	NA	±30	Average RF
Perfluorooctane sulfonic acid (PFOS)	0.0928	0.0900	1.2567	1.4028	97.0	-3.0	±30	Linear
Perfluorononane sulfonic acid (PFNS)	0.0962	0.0940	1.0352	1.0146	97.7	NA	±30	Average RF
Perfluorodecane sulfonic acid (PFDS)	0.0965	0.0930	0.8943	0.8665	96.4	NA	±30	Average RF
Perfluorododecane sulfonic acid (PFDoS)	0.0970	0.0870	0.3941	0.3892	89.7	-10.3	±30	Linear
Perfluorobutanoic acid (PFBA)	0.100	0.101	0.868	0.8761	101	NA	±30	Average RF
Perfluoropentanoic acid (PFPeA)	0.100	0.103	0.8847	0.9092	103	NA	±30	Average RF
Perfluorohexanoic acid (PFHxA)	0.100	0.0990	0.9138	0.9086	99.0	NA	±30	Average RF
Perfluoroheptanoic acid (PFHpA)	0.100	0.103	0.9776	1.0093	103	NA	±30	Average RF
Perfluorooctanoic acid (PFOA)	0.100	0.0880	0.8678	0.8718	88.0	-12.0	±30	Linear
Perfluorononanoic acid (PFNA)	0.100	0.100	0.7841	0.7838	100	NA	±30	Average RF
Perfluorodecanoic acid (PFDA)	0.100	0.101	0.9526	0.9642	101	NA	±30	Average RF
Perfluoroundecanoic acid (PFUnDA)	0.100	0.0970	0.8345	0.8068	97.0	NA	±30	Average RF
Perfluorododecanoic acid (PFDOA)	0.100	0.0870	0.9394	0.9159	87.0	-13.0	±30	Linear
Perfluorotridecanoic acid (PFTrDA)	0.100	0.0940	0.9544	9.888E4	94.0	-6.0	±30	Linear
Perfluorotetradecanoic acid (PFTDA)	0.100	0.101	0.1105	0.1111	101	NA	±30	Average RF
Perfluorooctane sulfonamide (PFOSAm)	0.200	0.201	0.954	0.9588	101	NA	±30	Average RF
N-Methylperfluorooctane sulfonamide (MeFOSA)	0.100	0.0980	1.2741	1.2521	98.0	NA	±30	Average RF
N-Ethylperfluorooctane sulfonamide (EtFOSAm)	0.100	0.103	1.492	1.5321	103	NA	±30	Average RF
N-Methylperfluorooctane sulfonamido ethanol (MeFOSE)	0.100	0.0910	1.1854	1.2136	91.0	-9.0	±30	Linear
N-Ethylperfluorooctane sulfonamido ethanol (EtFOSE)	0.100	0.106	1.2513	1.3249	106	NA	±30	Average RF
N-Methylperfluorooctane sulfonamido acetic acid (NMeFOSAA)	0.100	0.100	0.791	0.7876	100	NA	±30	Average RF
N-Ethylperfluorooctane sulfonamido acetic acid (NEtFOSAA)	0.100	0.0990	0.8096	0.7983	99.0	NA	±30	Average RF
1H, 1H, 2H, 2H-Perfluorohexanesulfonic acid (4:2 FTS)	0.0937	0.0950	1.2669	1.2904	101	NA	±30	Average RF
1H, 1H, 2H, 2H-Perfluorooctanesulfonic acid (6:2 FTS)	0.0951	0.106	1.0391	1.1613	111	NA	±30	Average RF

Client: ALS Environmental - Middletown
Project:
Service Request: K2605119
Date Analyzed: 06/10/26 11:37

Continuing Calibration Verification (CCV) Summary
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: 1633
File ID: J:\LCMS10\DATA\260610_1633_B3\260610_1633-0004.d
Signal ID: 1
Calibration Date: 6/2/2026
Calibration ID: KC2600258
Analysis Lot: 923291
Units: ng/mL

1H, 1H, 2H, 2H-Perfluorodecanesulfonic acid (8:2 FTS)	0.0960	0.0990	1.4882	1.5282	103	NA	±30	Average RF
4,4,5,5,6,6,6-Heptafluorohexanoic acid (3:3 FTCA)	1.00	0.834	0.0208	0.0173	83.4	NA	±30	Average RF
2H,2H,3H,3H-Perfluorooctanoic acid (5:3 FTCA)	1.00	0.861	0.0628	0.0541	86.1	NA	±30	Average RF
2H,2H,3H,3H-Perfluorodecanoic acid (7:3 FTCA)	1.00	0.866	0.056	0.0484	86.6	NA	±30	Average RF
Perfluoro(2-ethoxyethane) sulfonic acid (PFEESA)	0.0890	0.0870	1.0752	1.047	97.8	NA	±30	Average RF
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)	0.0933	0.103	1.2942	1.4347	110	NA	±30	Average RF
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	0.0943	0.110	0.8144	0.9472	117	NA	±30	Average RF
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.100	0.0930	0.7857	0.7288	93.0	NA	±30	Average RF
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.100	0.0960	0.9274	0.8869	96.0	NA	±30	Average RF
Hexafluoropropyleneoxide dimer acid (HFPO-DA) (GenX)	0.100	0.103	0.9622	0.99	103	NA	±30	Average RF
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.100	0.0990	0.5463	0.5414	99.0	NA	±30	Average RF
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	0.0945	0.104	3.6556	4.0173	110	NA	±30	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	Rec.	% Drift	Criteria	Curve Fit
13C3-PFBS	2.50	2.54	2.1	2.1333	102	NA	±30	Average RF
13C3-PFHxS	2.50	2.55	1.2546	1.2771	102	NA	±30	Average RF
13C8-PFOS	2.50	2.55	1.0676	1.0874	102	NA	±30	Average RF
13C4-PFBA	10.0	10.1	1.1713	1.1854	101	NA	±30	Average RF
13C5-PFPeA	5.00	5.13	0.7458	0.7651	103	NA	±30	Average RF
13C5-PFHxA	2.50	2.54	1.1082	1.1276	102	NA	±30	Average RF
13C4-PFHpA	2.50	2.50	0.6562	0.6551	100	NA	±30	Average RF
13C8-PFOA	2.50	2.54	6.7517	6.8705	102	NA	±30	Average RF
13C9-PFNA	1.25	1.28	1.1685	1.1918	102	NA	±30	Average RF
13C6-PFDA	1.25	1.27	1.0597	1.0775	102	NA	±30	Average RF
13C7-PFUnDA	1.25	1.28	1.0276	1.052	102	NA	±30	Average RF
13C2-PFDoDA	1.25	1.22	0.7677	0.7461	97.2	NA	±30	Average RF
13C2-PFTeDA	1.25	1.28	0.4939	0.5047	102	NA	±30	Average RF
13C8-FOSA	2.50	2.41	2.2155	2.1316	96.2	NA	±30	Average RF
D3-MeFOSA	2.50	2.31	0.6187	0.5703	92.2	NA	±30	Average RF

Client: ALS Environmental - Middletown
Project:

Service Request: K2605119
Date Analyzed: 06/10/26 11:37

Continuing Calibration Verification (CCV) Summary
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: 1633
File ID: J:\LCMS10\DATA\260610_1633_B3\260610_1633-0004.d
Signal ID: 1

Calibration Date: 6/2/2026
Calibration ID: KC2600258
Analysis Lot: 923291
Units: ng/mL

D5-EtFOSA	2.50	2.34	0.6959	0.6505	93.5	NA	±30	Average RF
D7-MeFOSE	25.0	22.4	0.8727	0.7835	89.8	NA	±30	Average RF
D9-EtFOSE	25.0	22.4	0.7148	0.64	89.5	NA	±30	Average RF
D3-MeFOSAA	5.00	4.55	0.622	0.5655	90.9	NA	±30	Average RF
D5-EtFOSAA	5.00	4.64	0.5341	0.4961	92.9	NA	±30	Average RF
13C2-4:2 FTS	5.00	4.51	0.3836	0.3461	90.2	NA	±30	Average RF
13C2-6:2 FTS	5.00	4.60	0.2599	0.2391	92.0	NA	±30	Average RF
13C2-8:2 FTS	5.00	4.99	0.2326	0.2319	99.7	NA	±30	Average RF
13C3-HFPO-DA	10.0	9.01	0.3563	0.3211	90.1	NA	±30	Average RF

Client: ALS Environmental - Middletown
Project:

Service Request: K2605119
Date Analyzed: 06/10/26 11:53

Continuing Calibration Verification (CCV) Summary
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: 1633
File ID: J:\LCMS10\DATA\260610_1633_B3\260610_1633-0005.d
Signal ID: 1

Calibration Date: 6/2/2026
Calibration ID: KC2600258
Analysis Lot: 923291
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	Rec.	% Drift	Criteria	Curve Fit
Perfluorobutane sulfonic acid (PFBS)	0.887	0.939	1.1632	1.2313	106	NA	±30	Average RF
Perfluoropentane sulfonic acid (PFPeS)	0.941	1.00	1.5627	1.6631	106	NA	±30	Average RF
Perfluorohexane sulfonic acid (PFHxS)	0.914	0.992	1.1925	1.1827	109	8.5	±30	Linear
Perfluoroheptane sulfonic acid (PFHpS)	0.953	1.00	1.2711	1.3368	105	NA	±30	Average RF
Perfluorooctane sulfonic acid (PFOS)	0.928	0.954	1.2567	1.1888	103	2.8	±30	Linear
Perfluorononane sulfonic acid (PFNS)	0.962	1.03	1.0352	1.1038	107	NA	±30	Average RF
Perfluorodecane sulfonic acid (PFDS)	0.965	1.00	0.8943	0.9308	104	NA	±30	Average RF
Perfluorododecane sulfonic acid (PFDoS)	0.970	1.06	0.3941	0.4081	109	9.1	±30	Linear
Perfluorobutanoic acid (PFBA)	1.00	1.04	0.868	0.902	104	NA	±30	Average RF
Perfluoropentanoic acid (PFPeA)	1.00	1.05	0.8847	0.925	105	NA	±30	Average RF
Perfluorohexanoic acid (PFHxA)	1.00	1.04	0.9138	0.9502	104	NA	±30	Average RF
Perfluoroheptanoic acid (PFHpA)	1.00	1.07	0.9776	1.0458	107	NA	±30	Average RF
Perfluorooctanoic acid (PFOA)	1.00	1.09	0.8678	0.8835	109	9.0	±30	Linear
Perfluorononanoic acid (PFNA)	1.00	1.07	0.7841	0.8391	107	NA	±30	Average RF
Perfluorodecanoic acid (PFDA)	1.00	1.04	0.9526	0.99	104	NA	±30	Average RF
Perfluoroundecanoic acid (PFUnDA)	1.00	1.07	0.8345	0.8954	107	NA	±30	Average RF
Perfluorododecanoic acid (PFDOA)	1.00	1.15	0.9394	1.0194	115	14.9	±30	Linear
Perfluorotridecanoic acid (PFTrDA)	1.00	1.17	0.9544	9.754E4	117	17.0	±30	Linear
Perfluorotetradecanoic acid (PFTDA)	1.00	1.04	0.1105	0.1151	104	NA	±30	Average RF
Perfluorooctane sulfonamide (PFOSAm)	2.00	2.07	0.954	0.9889	104	NA	±30	Average RF
N-Methylperfluorooctane sulfonamide (MeFOSA)	1.00	1.07	1.2741	1.3564	107	NA	±30	Average RF
N-Ethylperfluorooctane sulfonamide (EtFOSAm)	1.00	1.03	1.492	1.5344	103	NA	±30	Average RF
N-Methylperfluorooctane sulfonamido ethanol (MeFOSE)	1.00	1.08	1.1854	1.1986	108	7.5	±30	Linear
N-Ethylperfluorooctane sulfonamido ethanol (EtFOSE)	1.00	0.983	1.2513	1.2306	98.3	NA	±30	Average RF
N-Methylperfluorooctane sulfonamido acetic acid (NMeFOSAA)	1.00	1.05	0.791	0.8294	105	NA	±30	Average RF
N-Ethylperfluorooctane sulfonamido acetic acid (NEtFOSAA)	1.00	1.07	0.8096	0.867	107	NA	±30	Average RF
1H, 1H, 2H, 2H-Perfluorohexanesulfonic acid (4:2 FTS)	0.937	0.983	1.2669	1.3288	105	NA	±30	Average RF
1H, 1H, 2H, 2H-Perfluorooctanesulfonic acid (6:2 FTS)	0.951	0.985	1.0391	1.0761	104	NA	±30	Average RF

Client: ALS Environmental - Middletown
Project:
Service Request: K2605119
Date Analyzed: 06/10/26 11:53

Continuing Calibration Verification (CCV) Summary
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: 1633
File ID: J:\LCMS10\DATA\260610_1633_B3\260610_1633-0005.d
Signal ID: 1
Calibration Date: 6/2/2026
Calibration ID: KC2600258
Analysis Lot: 923291
Units: ng/mL

1H, 1H, 2H, 2H-Perfluorodecanesulfonic acid (8:2 FTS)	0.960	1.07	1.4882	1.6578	111	NA	±30	Average RF
4,4,5,5,6,6,6-Heptafluorohexanoic acid (3:3 FTCA)	10.0	9.88	0.0208	0.0205	98.8	NA	±30	Average RF
2H,2H,3H,3H-Perfluorooctanoic acid (5:3 FTCA)	10.0	10.2	0.0628	0.0641	102	NA	±30	Average RF
2H,2H,3H,3H-Perfluorodecanoic acid (7:3 FTCA)	10.0	11.4	0.056	0.064	114	NA	±30	Average RF
Perfluoro(2-ethoxyethane) sulfonic acid (PFEESA)	0.890	0.927	1.0752	1.1197	104	NA	±30	Average RF
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)	0.933	1.12	1.2942	1.5563	120	NA	±30	Average RF
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	0.943	1.18	0.8144	1.0147	125	NA	±30	Average RF
Perfluoro-3-methoxypropanoic acid (PFMPA)	1.00	0.987	0.7857	0.7758	98.7	NA	±30	Average RF
Perfluoro-4-methoxybutanoic acid (PFMBA)	1.00	1.03	0.9274	0.9544	103	NA	±30	Average RF
Hexafluoropropyleneoxide dimer acid (HFPO-DA) (GenX)	1.00	1.04	0.9622	1.0049	104	NA	±30	Average RF
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	1.00	1.01	0.5463	0.5534	101	NA	±30	Average RF
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	0.945	1.13	3.6556	4.3727	120	NA	±30	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	Rec.	% Drift	Criteria	Curve Fit
13C3-PFBS	2.50	2.47	2.1	2.0769	98.9	NA	±30	Average RF
13C3-PFHxS	2.50	2.48	1.2546	1.2444	99.2	NA	±30	Average RF
13C8-PFOS	2.50	2.47	1.0676	1.055	98.8	NA	±30	Average RF
13C4-PFBA	10.0	9.74	1.1713	1.1406	97.4	NA	±30	Average RF
13C5-PFPeA	5.00	4.91	0.7458	0.7326	98.2	NA	±30	Average RF
13C5-PFHxA	2.50	2.44	1.1082	1.0793	97.4	NA	±30	Average RF
13C4-PFHpA	2.50	2.41	0.6562	0.6329	96.4	NA	±30	Average RF
13C8-PFOA	2.50	2.40	6.7517	6.4759	95.9	NA	±30	Average RF
13C9-PFNA	1.25	1.21	1.1685	1.1313	96.8	NA	±30	Average RF
13C6-PFDA	1.25	1.23	1.0597	1.0462	98.7	NA	±30	Average RF
13C7-PFUnDA	1.25	1.25	1.0276	1.0232	100	NA	±30	Average RF
13C2-PFDoDA	1.25	1.17	0.7677	0.7166	93.4	NA	±30	Average RF
13C2-PFTeDA	1.25	1.25	0.4939	0.4943	100	NA	±30	Average RF
13C8-FOSA	2.50	2.31	2.2155	2.0458	92.4	NA	±30	Average RF
D3-MeFOSA	2.50	2.22	0.6187	0.5503	89.0	NA	±30	Average RF

Client: ALS Environmental - Middletown
Project:

Service Request: K2605119
Date Analyzed: 06/10/26 11:53

Continuing Calibration Verification (CCV) Summary
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: 1633
File ID: J:\LCMS10\DATA\260610_1633_B3\260610_1633-0005.d
Signal ID: 1

Calibration Date: 6/2/2026
Calibration ID: KC2600258
Analysis Lot: 923291
Units: ng/mL

D5-EtFOSA	2.50	2.29	0.6959	0.6362	91.4	NA	±30	Average RF
D7-MeFOSE	25.0	21.8	0.8727	0.7617	87.3	NA	±30	Average RF
D9-EtFOSE	25.0	22.0	0.7148	0.6277	87.8	NA	±30	Average RF
D3-MeFOSAA	5.00	4.18	0.622	0.5203	83.7	NA	±30	Average RF
D5-EtFOSAA	5.00	4.36	0.5341	0.4655	87.1	NA	±30	Average RF
13C2-4:2 FTS	5.00	4.43	0.3836	0.3402	88.7	NA	±30	Average RF
13C2-6:2 FTS	5.00	4.59	0.2599	0.2388	91.9	NA	±30	Average RF
13C2-8:2 FTS	5.00	4.85	0.2326	0.2258	97.1	NA	±30	Average RF
13C3-HFPO-DA	10.0	8.57	0.3563	0.3054	85.7	NA	±30	Average RF

Client: ALS Environmental - Middletown **Service Request:**K2605119

Project:

Analysis Run Log
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: **Analysis Lot:**923079

Instrument ID:K-LCMS-10

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
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J:\LCMS10\DATA\260608_1633_B1\260608_1633_003.d	Low Level Continuing Calibration Verification	KQ2609351-12	6/8/2026	14:32	
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J:\LCMS10\DATA\260608_1633_B1\260608_1633_004.d	ZZZZZZZ	ZZZZZZZ	6/8/2026	14:48	
J:\LCMS10\DATA\260608_1633_B1\260608_1633_004.d	ZZZZZZZ	ZZZZZZZ	6/8/2026	14:48	
J:\LCMS10\DATA\260608_1633_B1\260608_1633_005.d	Qualitative Identification Standards	KQ2609351-14	6/8/2026	15:04	
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J:\LCMS10\DATA\260608_1633_B1\260608_1633_006.d	Continuing Calibration Blank	KQ2609351-15	6/8/2026	15:20	
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J:\LCMS10\DATA\260608_1633_B1\260608_1633_007.d	Bile Salt Interference Check	KQ2609351-16	6/8/2026	15:36	
J:\LCMS10\DATA\260608_1633_B1\260608_1633_007.d	ZZZZZZZ	ZZZZZZZ	6/8/2026	15:36	
J:\LCMS10\DATA\260608_1633_B1\260608_1633_008.d	ZZZZZZZ	ZZZZZZZ	6/8/2026	15:52	
J:\LCMS10\DATA\260608_1633_B1\260608_1633_009.d	ZZZZZZZ	ZZZZZZZ	6/8/2026	16:09	
J:\LCMS10\DATA\260608_1633_B1\260608_1633_010.d	ZZZZZZZ	ZZZZZZZ	6/8/2026	16:25	
J:\LCMS10\DATA\260608_1633_B1\260608_1633_011.d	ZZZZZZZ	ZZZZZZZ	6/8/2026	16:41	
J:\LCMS10\DATA\260608_1633_B1\260608_1633_012.d	ZZZZZZZ	ZZZZZZZ	6/8/2026	16:57	
J:\LCMS10\DATA\260608_1633_B1\260608_1633_013.d	ZZZZZZZ	ZZZZZZZ	6/8/2026	17:13	
J:\LCMS10\DATA\260608_1633_B1\260608_1633_014.d	ZZZZZZZ	ZZZZZZZ	6/8/2026	17:30	
J:\LCMS10\DATA\260608_1633_B1\260608_1633_015.d	ZZZZZZZ	ZZZZZZZ	6/8/2026	17:46	
J:\LCMS10\DATA\260608_1633_B1\260608_1633_016.d	ZZZZZZZ	ZZZZZZZ	6/8/2026	18:02	
J:\LCMS10\DATA\260608_1633_B1\260608_1633_017.d	ZZZZZZZ	ZZZZZZZ	6/8/2026	18:19	
J:\LCMS10\DATA\260608_1633_B1\260608_1633_018.d	ZZZZZZZ	ZZZZZZZ	6/8/2026	18:35	

Client: ALS Environmental - Middletown **Service Request:**K2605119

Project:

Analysis Run Log
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: **Analysis Lot:**923079

Instrument ID:K-LCMS-10

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
J:\LCMS10\DATA\260608_1633_B1\260608_1633_019.d	ZZZZZZZ	ZZZZZZZ	6/8/2026	18:51	
J:\LCMS10\DATA\260608_1633_B1\260608_1633_020.d	ZZZZZZZ	ZZZZZZZ	6/8/2026	19:07	
J:\LCMS10\DATA\260608_1633_B1\260608_1633_021.d	ZZZZZZZ	ZZZZZZZ	6/8/2026	19:24	
J:\LCMS10\DATA\260608_1633_B1\260608_1633_022.d	ZZZZZZZ	ZZZZZZZ	6/8/2026	19:40	
J:\LCMS10\DATA\260608_1633_B1\260608_1633_023.d	ZZZZZZZ	ZZZZZZZ	6/8/2026	19:56	
J:\LCMS10\DATA\260608_1633_B1\260608_1633_023.d	Continuing Calibration Verification	KQ2609351-17	6/8/2026	19:56	
J:\LCMS10\DATA\260608_1633_B1\260608_1633_024.d	ZZZZZZZ	ZZZZZZZ	6/8/2026	20:12	
J:\LCMS10\DATA\260608_1633_B1\260608_1633_024.d	Continuing Calibration Blank	KQ2609351-18	6/8/2026	20:12	
J:\LCMS10\DATA\260608_1633_B1\260608_1633_025.d	ZZZZZZZ	ZZZZZZZ	6/8/2026	20:28	
J:\LCMS10\DATA\260608_1633_B1\260608_1633_026.d	ZZZZZZZ	ZZZZZZZ	6/8/2026	20:45	
J:\LCMS10\DATA\260608_1633_B1\260608_1633_027.d	ZZZZZZZ	ZZZZZZZ	6/8/2026	21:01	
J:\LCMS10\DATA\260608_1633_B1\260608_1633_028.d	ZZZZZZZ	ZZZZZZZ	6/8/2026	21:17	
J:\LCMS10\DATA\260608_1633_B1\260608_1633_029.d	ZZZZZZZ	ZZZZZZZ	6/8/2026	21:33	
J:\LCMS10\DATA\260608_1633_B1\260608_1633_030.d	ZZZZZZZ	ZZZZZZZ	6/8/2026	21:49	
J:\LCMS10\DATA\260608_1633_B1\260608_1633_031.d	Method Blank	KQ2609181-04	6/8/2026	22:05	
J:\LCMS10\DATA\260608_1633_B1\260608_1633_032.d	Low Level Lab Control Sample	KQ2609181-03	6/8/2026	22:22	
J:\LCMS10\DATA\260608_1633_B1\260608_1633_033.d	Lab Control Sample	KQ2609181-02	6/8/2026	22:38	
J:\LCMS10\DATA\260608_1633_B1\260608_1633_034.d	ZZZZZZZ	ZZZZZZZ	6/8/2026	22:54	
J:\LCMS10\DATA\260608_1633_B1\260608_1633_035.d	ZZZZZZZ	ZZZZZZZ	6/8/2026	23:10	
J:\LCMS10\DATA\260608_1633_B1\260608_1633_036.d	Continuing Calibration Blank	KQ2609351-27	6/8/2026	23:26	
J:\LCMS10\DATA\260608_1633_B1\260608_1633_037.d	ZZZZZZZ	ZZZZZZZ	6/8/2026	23:42	
J:\LCMS10\DATA\260608_1633_B1\260608_1633_038.d	ZZZZZZZ	ZZZZZZZ	6/8/2026	23:59	
J:\LCMS10\DATA\260608_1633_B1\260608_1633_039.d	ZZZZZZZ	ZZZZZZZ	6/9/2026	00:15	

Client: ALS Environmental - Middletown **Service Request:**K2605119

Project:

Analysis Run Log
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: **Analysis Lot:**923079

Instrument ID:K-LCMS-10

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
J:\LCMS10\DATA\260608_1633_B1\260608_1633_040.d	Continuing Calibration Verification	KQ2609351-19	6/9/2026	00:31	
J:\LCMS10\DATA\260608_1633_B1\260608_1633_040.d	ZZZZZZZ	ZZZZZZZ	6/9/2026	00:31	
J:\LCMS10\DATA\260608_1633_B1\260608_1633_041.d	Continuing Calibration Blank	KQ2609351-20	6/9/2026	00:47	
J:\LCMS10\DATA\260608_1633_B1\260608_1633_041.d	ZZZZZZZ	ZZZZZZZ	6/9/2026	00:47	

Client: ALS Environmental - Middletown **Service Request:**K2605119
Project:

Analysis Run Log
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: 1633 **Analysis Lot:**923265
Instrument ID:K-LCMS-10

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
J:\LCMS10\DATA\260608_1633_B3\260608_1633_071.d	Continuing Calibration Blank	KQ2609460-01	6/9/2026	08:51	
J:\LCMS10\DATA\260608_1633_B3\260608_1633_072.d	Low Level Continuing Calibration Verification	KQ2609460-02	6/9/2026	09:07	
J:\LCMS10\DATA\260608_1633_B3\260608_1633_073.d	Continuing Calibration Verification	KQ2609460-03	6/9/2026	09:23	
J:\LCMS10\DATA\260608_1633_B3\260608_1633_074.d	Qualitative Identification Standards	KQ2609460-04	6/9/2026	09:39	
J:\LCMS10\DATA\260608_1633_B3\260608_1633_075.d	Continuing Calibration Blank	KQ2609460-05	6/9/2026	09:55	
J:\LCMS10\DATA\260608_1633_B3\260608_1633_076.d	Method Blank	KQ2607853-04	6/9/2026	10:11	
J:\LCMS10\DATA\260608_1633_B3\260608_1633_077.d	Low Level Lab Control Sample	KQ2607853-03	6/9/2026	10:28	
J:\LCMS10\DATA\260608_1633_B3\260608_1633_080.d	Lab Control Sample	KQ2607853-02	6/9/2026	11:16	
J:\LCMS10\DATA\260608_1633_B3\260608_1633_081.d	Bile Salt Interference Check	KQ2609460-06	6/9/2026	11:32	
J:\LCMS10\DATA\260608_1633_B3\260608_1633_083.d	ZZZZZZZ	ZZZZZZZ	6/9/2026	12:05	
J:\LCMS10\DATA\260608_1633_B3\260608_1633_086.d	ZZZZZZZ	ZZZZZZZ	6/9/2026	12:53	
J:\LCMS10\DATA\260608_1633_B3\260608_1633_089.d	ZZZZZZZ	ZZZZZZZ	6/9/2026	13:42	
J:\LCMS10\DATA\260608_1633_B3\260608_1633_092.d	ZZZZZZZ	ZZZZZZZ	6/9/2026	14:31	
J:\LCMS10\DATA\260608_1633_B3\260608_1633_095.d	ZZZZZZZ	ZZZZZZZ	6/9/2026	15:20	
J:\LCMS10\DATA\260608_1633_B3\260608_1633_097.d	Continuing Calibration Verification	KQ2609460-07	6/9/2026	16:13	
J:\LCMS10\DATA\260608_1633_B3\260608_1633_098.d	Continuing Calibration Blank	KQ2609460-08	6/9/2026	16:29	
J:\LCMS10\DATA\260608_1633_B3\260608_1633_099.d	ZZZZZZZ	ZZZZZZZ	6/9/2026	16:45	
J:\LCMS10\DATA\260608_1633_B3\260608_1633_100.d	ZZZZZZZ	ZZZZZZZ	6/9/2026	17:02	
J:\LCMS10\DATA\260608_1633_B3\260608_1633_103.d	ZZZZZZZ	ZZZZZZZ	6/9/2026	17:50	
J:\LCMS10\DATA\260608_1633_B3\260608_1633_105.d	ZZZZZZZ	ZZZZZZZ	6/9/2026	18:23	
J:\LCMS10\DATA\260608_1633_B3\260608_1633_106.d	ZZZZZZZ	ZZZZZZZ	6/9/2026	18:39	
J:\LCMS10\DATA\260608_1633_B3\260608_1633_109.d	ZZZZZZZ	ZZZZZZZ	6/9/2026	19:28	
J:\LCMS10\DATA\260608_1633_B3\260608_1633_111.d	ZZZZZZZ	ZZZZZZZ	6/9/2026	20:00	

Client: ALS Environmental - Middletown **Service Request:**K2605119
Project:

Analysis Run Log
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: 1633 **Analysis Lot:**923265
Instrument ID:K-LCMS-10

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
J:\LCMS10\DATA\260608_1633_B3\260608_1633_112.d	Continuing Calibration Blank	KQ2609460-10	6/9/2026	20:16	

Client: ALS Environmental - Middletown **Service Request:**K2605119
Project:

Analysis Run Log
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: 1633 **Analysis Lot:**923269
Instrument ID:K-LCMS-10

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
J:\LCMS10\DATA\260608_1633_B2\260608_1633_041.d	Continuing Calibration Blank	KQ2609445-06	6/9/2026	00:47	
J:\LCMS10\DATA\260608_1633_B2\260608_1633_042.d	Low Level Continuing Calibration Verification	KQ2609445-07	6/9/2026	01:03	
J:\LCMS10\DATA\260608_1633_B2\260608_1633_043.d	Continuing Calibration Verification	KQ2609445-08	6/9/2026	01:19	
J:\LCMS10\DATA\260608_1633_B2\260608_1633_044.d	Qualitative Identification Standards	KQ2609445-09	6/9/2026	01:35	
J:\LCMS10\DATA\260608_1633_B2\260608_1633_045.d	Continuing Calibration Blank	KQ2609445-10	6/9/2026	01:51	
J:\LCMS10\DATA\260608_1633_B2\260608_1633_046.d	Bile Salt Interference Check	KQ2609445-11	6/9/2026	02:07	
J:\LCMS10\DATA\260608_1633_B2\260608_1633_047.d	ZZZZZZZ	ZZZZZZZ	6/9/2026	02:23	
J:\LCMS10\DATA\260608_1633_B2\260608_1633_048.d	ZZZZZZZ	ZZZZZZZ	6/9/2026	02:40	
J:\LCMS10\DATA\260608_1633_B2\260608_1633_049.d	ZZZZZZZ	ZZZZZZZ	6/9/2026	02:56	
J:\LCMS10\DATA\260608_1633_B2\260608_1633_050.d	ZZZZZZZ	ZZZZZZZ	6/9/2026	03:12	
J:\LCMS10\DATA\260608_1633_B2\260608_1633_051.d	ZZZZZZZ	ZZZZZZZ	6/9/2026	03:28	
J:\LCMS10\DATA\260608_1633_B2\260608_1633_052.d	ZZZZZZZ	ZZZZZZZ	6/9/2026	03:44	
J:\LCMS10\DATA\260608_1633_B2\260608_1633_053.d	Continuing Calibration Blank	KQ2609445-01	6/9/2026	04:00	
J:\LCMS10\DATA\260608_1633_B2\260608_1633_054.d	MW702-12052026	K2605119-001	6/9/2026	04:16	
J:\LCMS10\DATA\260608_1633_B2\260608_1633_055.d	MW701-12052026	K2605119-002	6/9/2026	04:33	
J:\LCMS10\DATA\260608_1633_B2\260608_1633_056.d	MW301-12052026	K2605119-003	6/9/2026	04:49	
J:\LCMS10\DATA\260608_1633_B2\260608_1633_057.d	MW601-12052026	K2605119-004	6/9/2026	05:05	
J:\LCMS10\DATA\260608_1633_B2\260608_1633_058.d	Continuing Calibration Verification	KQ2609445-03	6/9/2026	05:21	
J:\LCMS10\DATA\260608_1633_B2\260608_1633_059.d	Continuing Calibration Blank	KQ2609445-02	6/9/2026	05:37	
J:\LCMS10\DATA\260608_1633_B2\260608_1633_060.d	MW602-12052026	K2605119-005	6/9/2026	05:53	
J:\LCMS10\DATA\260608_1633_B2\260608_1633_061.d	MW201-12052026	K2605119-006	6/9/2026	06:10	
J:\LCMS10\DATA\260608_1633_B2\260608_1633_062.d	ZZZZZZZ	ZZZZZZZ	6/9/2026	06:26	
J:\LCMS10\DATA\260608_1633_B2\260608_1633_063.d	ZZZZZZZ	ZZZZZZZ	6/9/2026	06:42	

Client: ALS Environmental - Middletown **Service Request:**K2605119
Project:

Analysis Run Log
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: 1633 **Analysis Lot:**923269
Instrument ID:K-LCMS-10

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
J:\LCMS10\DATA\260608_1633_B2\260608_1633_064.d	ZZZZZZZ	ZZZZZZZ	6/9/2026	06:58	
J:\LCMS10\DATA\260608_1633_B2\260608_1633_065.d	ZZZZZZZ	ZZZZZZZ	6/9/2026	07:14	
J:\LCMS10\DATA\260608_1633_B2\260608_1633_066.d	ZZZZZZZ	ZZZZZZZ	6/9/2026	07:30	
J:\LCMS10\DATA\260608_1633_B2\260608_1633_067.d	ZZZZZZZ	ZZZZZZZ	6/9/2026	07:46	
J:\LCMS10\DATA\260608_1633_B2\260608_1633_070.d	Continuing Calibration Verification	KQ2609445-04	6/9/2026	08:35	
J:\LCMS10\DATA\260608_1633_B2\260608_1633_071.d	Continuing Calibration Blank	KQ2609445-05	6/9/2026	08:51	

Client: ALS Environmental - Middletown **Service Request:**K2605119
Project:

Analysis Run Log
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: 1633 **Analysis Lot:**923291
Instrument ID:K-LCMS-10

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
J:\LCMS10\DATA\260610_1633_B3\260610_1633-0003.d	Continuing Calibration Blank	KQ2609462-20	6/10/2026	11:21	
J:\LCMS10\DATA\260610_1633_B3\260610_1633-0003.d	ZZZZZZZ	ZZZZZZZ	6/10/2026	11:21	
J:\LCMS10\DATA\260610_1633_B3\260610_1633-0004.d	ZZZZZZZ	ZZZZZZZ	6/10/2026	11:37	
J:\LCMS10\DATA\260610_1633_B3\260610_1633-0004.d	Low Level Continuing Calibration Verification	KQ2609462-21	6/10/2026	11:37	
J:\LCMS10\DATA\260610_1633_B3\260610_1633-0005.d	Continuing Calibration Verification	KQ2609462-22	6/10/2026	11:53	
J:\LCMS10\DATA\260610_1633_B3\260610_1633-0005.d	ZZZZZZZ	ZZZZZZZ	6/10/2026	11:53	
J:\LCMS10\DATA\260610_1633_B3\260610_1633-0006.d	Qualitative Identification Standards	KQ2609462-23	6/10/2026	12:09	
J:\LCMS10\DATA\260610_1633_B3\260610_1633-0006.d	ZZZZZZZ	ZZZZZZZ	6/10/2026	12:09	
J:\LCMS10\DATA\260610_1633_B3\260610_1633-0007.d	ZZZZZZZ	ZZZZZZZ	6/10/2026	12:25	
J:\LCMS10\DATA\260610_1633_B3\260610_1633-0007.d	Continuing Calibration Blank	KQ2609462-24	6/10/2026	12:25	
J:\LCMS10\DATA\260610_1633_B3\260610_1633-0008.d	ZZZZZZZ	ZZZZZZZ	6/10/2026	12:41	
J:\LCMS10\DATA\260610_1633_B3\260610_1633-0008.d	Bile Salt Interference Check	KQ2609462-25	6/10/2026	12:41	
J:\LCMS10\DATA\260610_1633_B3\260610_1633-0010.d	ZZZZZZZ	ZZZZZZZ	6/10/2026	13:14	
J:\LCMS10\DATA\260610_1633_B3\260610_1633-0011.d	Continuing Calibration Blank	KQ2609462-01	6/10/2026	13:30	
J:\LCMS10\DATA\260610_1633_B3\260610_1633-0013.d	ZZZZZZZ	ZZZZZZZ	6/10/2026	14:02	
J:\LCMS10\DATA\260610_1633_B3\260610_1633-0015.d	Continuing Calibration Blank	KQ2609462-02	6/10/2026	14:40	
J:\LCMS10\DATA\260610_1633_B3\260610_1633-0017.d	ZZZZZZZ	ZZZZZZZ	6/10/2026	15:13	
J:\LCMS10\DATA\260610_1633_B3\260610_1633-0018.d	Continuing Calibration Blank	KQ2609462-03	6/10/2026	15:29	
J:\LCMS10\DATA\260610_1633_B3\260610_1633-0020.d	ZZZZZZZ	ZZZZZZZ	6/10/2026	16:01	
J:\LCMS10\DATA\260610_1633_B3\260610_1633-0021.d	Continuing Calibration Blank	KQ2609462-04	6/10/2026	16:18	
J:\LCMS10\DATA\260610_1633_B3\260610_1633-0023.d	SS-HLLA1-O-12	K2605119-007	6/10/2026	16:50	
J:\LCMS10\DATA\260610_1633_B3\260610_1633-0024.d	Continuing Calibration Blank	KQ2609462-07	6/10/2026	17:06	
J:\LCMS10\DATA\260610_1633_B3\260610_1633-0025.d	Continuing Calibration Verification	KQ2609462-06	6/10/2026	17:23	

Client: ALS Environmental - Middletown **Service Request:**K2605119
Project:

Analysis Run Log
Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Analysis Method: 1633 **Analysis Lot:**923291
Instrument ID:K-LCMS-10

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
J:\LCMS10\DATA\260610_1633_B3\260610_1633-0025.d	ZZZZZZZ	ZZZZZZZ	6/10/2026	17:23	
J:\LCMS10\DATA\260610_1633_B3\260610_1633-0026.d	ZZZZZZZ	ZZZZZZZ	6/10/2026	17:39	
J:\LCMS10\DATA\260610_1633_B3\260610_1633-0026.d	Continuing Calibration Blank	KQ2609462-05	6/10/2026	17:39	
J:\LCMS10\DATA\260610_1633_B3\260610_1633-0028.d	SS-HLLA2-O-12	K2605119-008	6/10/2026	18:11	
J:\LCMS10\DATA\260610_1633_B3\260610_1633-0029.d	ZZZZZZZ	ZZZZZZZ	6/10/2026	18:27	
J:\LCMS10\DATA\260610_1633_B3\260610_1633-0030.d	ZZZZZZZ	ZZZZZZZ	6/10/2026	18:44	
J:\LCMS10\DATA\260610_1633_B3\260610_1633-0031.d	ZZZZZZZ	ZZZZZZZ	6/10/2026	19:00	
J:\LCMS10\DATA\260610_1633_B3\260610_1633-0032.d	ZZZZZZZ	ZZZZZZZ	6/10/2026	19:16	
J:\LCMS10\DATA\260610_1633_B3\260610_1633-0033.d	ZZZZZZZ	ZZZZZZZ	6/10/2026	19:32	
J:\LCMS10\DATA\260610_1633_B3\260610_1633-0034.d	ZZZZZZZ	ZZZZZZZ	6/10/2026	19:48	
J:\LCMS10\DATA\260610_1633_B3\260610_1633-0035.d	ZZZZZZZ	ZZZZZZZ	6/10/2026	20:04	
J:\LCMS10\DATA\260610_1633_B3\260610_1633-0036.d	ZZZZZZZ	ZZZZZZZ	6/10/2026	20:20	
J:\LCMS10\DATA\260610_1633_B3\260610_1633-0037.d	ZZZZZZZ	ZZZZZZZ	6/10/2026	20:36	
J:\LCMS10\DATA\260610_1633_B3\260610_1633-0038.d	ZZZZZZZ	ZZZZZZZ	6/10/2026	20:52	
J:\LCMS10\DATA\260610_1633_B3\260610_1633-0039.d	ZZZZZZZ	ZZZZZZZ	6/10/2026	21:08	
J:\LCMS10\DATA\260610_1633_B3\260610_1633-0040.d	Continuing Calibration Verification	KQ2609462-09	6/10/2026	21:24	
J:\LCMS10\DATA\260610_1633_B3\260610_1633-0040.d	ZZZZZZZ	ZZZZZZZ	6/10/2026	21:24	
J:\LCMS10\DATA\260610_1633_B3\260610_1633-0041.d	ZZZZZZZ	ZZZZZZZ	6/10/2026	21:40	
J:\LCMS10\DATA\260610_1633_B3\260610_1633-0041.d	Continuing Calibration Blank	KQ2609462-08	6/10/2026	21:40	

Prep Summary Report

Client: ALS Environmental - Middletown **Service Request:**K2605119
Project: 40-3458226
Sample Matrix: Ground Water

Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Prep Method: Method **Extraction Lot:** 477453
Analytical Method: 1633 **Extraction Date:** 06/08/26 14:29

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Amount	Percent Solids
MW702-12052026	K2605119-001	5/12/26	5/20/26	293.6400 mL	5 mL	
MW701-12052026	K2605119-002	5/12/26	5/20/26	302.4100 mL	5 mL	
MW301-12052026	K2605119-003	5/12/26	5/20/26	295.5000 mL	5 mL	
MW601-12052026	K2605119-004	5/12/26	5/20/26	301.5600 mL	5 mL	
MW602-12052026	K2605119-005	5/12/26	5/20/26	299.5300 mL	5 mL	
MW201-12052026	K2605119-006	5/12/26	5/20/26	301.6300 mL	5 mL	
Lab Control Sample	KQ2609181-02LCS	NA	NA	250 mL	5 mL	
Low Level Lab Control Sample	KQ2609181-03LCS_LL	NA	NA	250 mL	5 mL	
Method Blank	KQ2609181-04MB	NA	NA	250 mL	5 mL	

Prep Summary Report

Client: ALS Environmental - Middletown **Service Request:**K2605119
Project: 40-3458226
Sample Matrix: Sludge, Solid

Per- and Polyfluoroalkyl Substances (PFAS) by LC/MS/MS

Prep Method: Method **Extraction Lot:** 476366
Analytical Method: 1633 **Extraction Date:** 06/02/26 09:51

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Amount	Percent Solids
SS-HLLA1-O-12	K2605119-007	5/12/26	5/20/26	6.596 g	5 mL	74.8
SS-HLLA2-O-12	K2605119-008	5/12/26	5/20/26	6.786 g	5 mL	85.6
Lab Control Sample	KQ2607853-02LCS	NA	NA	5 g	5 mL	
Low Level Lab Control Sample	KQ2607853-03LCS_LL	NA	NA	5 g	5 mL	
Method Blank	KQ2607853-04MB	NA	NA	5 g	5 mL	