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Automated Report

Technical Report for

Snowmass Water & Sanitation District

PFAS Sampling

SGS Job Number: DA60875

Sampling Date: 12/19/23

Report to:

Snowmass Water & Sanitation District
P.O. BOX 5700
Snowmass Village, CO 81615
cneral@swsd.org; drauer@swsd.org

ATTN: Chris Neral

Total number of pages in report: 79



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable unless noted in the narrative, comments or footnotes.

A handwritten signature in black ink, appearing to read "Eric Hoffman".

Eric Hoffman

Client Service contact: Parna Payandeh 303-425-6021

Certifications: CO (CO00049), ND (R-027), UT (NELAP CO00049), LA (LA150028), TX (T104704511), WY (8TMS-L) HI (CO00049), NJ (CO011), NV (CO00049), AK (CO00049), CA (3076), and NC (08701)

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Test results relate only to samples analyzed.

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Sample Summary

Snowmass Water & Sanitation District

Job No: DA60875

PFAS Sampling

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
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This report contains results reported as ND = Not detected. The following applies:
Organics ND = Not detected above the MDL

DA60875-2	12/19/23	08:30	DR	12/21/23	AQ	Water	WEST FORK BRUSH CREEK
DA60875-3	12/19/23	08:45	DR	12/21/23	AQ	Water	WTP RAW-SOURCE#1
DA60875-4	12/19/23	09:45	DR	12/21/23	AQ	Water	SCPS-SOURCE#4@ZIEGLER
DA60875-5	12/19/23	12:00	DR	12/21/23	AQ	Effluent	SWSD-WWTP EFFLUENT 003B
DA60875-6	12/19/23	00:00	DR	12/21/23	AQ	Field Blank Water	BLANK

Summary of Hits

Job Number: DA60875
Account: Snowmass Water & Sanitation District
Project: PFAS Sampling
Collected: 12/19/23

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
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DA60875-2 WEST FORK BRUSH CREEK

No hits reported in this sample.

DA60875-3 WTP RAW-SOURCE#1

No hits reported in this sample.

DA60875-4 SCPS-SOURCE#4@ZIEGLER

No hits reported in this sample.

DA60875-5 SWSD-WWTP EFFLUENT 003B

Perfluorobutanoic acid ^a	0.0086	0.0040	0.0020	ug/l	EPA 537M BY ID
Perfluoropentanoic acid ^a	0.0215	0.0020	0.0010	ug/l	EPA 537M BY ID
Perfluorohexanoic acid ^a	0.0119	0.0020	0.0010	ug/l	EPA 537M BY ID
Perfluoroheptanoic acid ^a	0.0029	0.0020	0.0010	ug/l	EPA 537M BY ID
Perfluorooctanoic acid ^a	0.0095	0.0020	0.0010	ug/l	EPA 537M BY ID
Perfluorononanoic acid ^a	0.0010 J	0.0020	0.0010	ug/l	EPA 537M BY ID
Perfluorodecanoic acid ^a	0.0011 J	0.0020	0.0010	ug/l	EPA 537M BY ID
Perfluorobutanesulfonic acid ^a	0.0039	0.0020	0.0010	ug/l	EPA 537M BY ID
Perfluorooctanesulfonic acid ^a	0.0024	0.0020	0.0010	ug/l	EPA 537M BY ID
Perfluoropentanoic acid ^a	0.0215	0.0077	0.0019	ug/l	EPA DRAFT 1633
Perfluorohexanoic acid ^a	0.0136	0.0038	0.00096	ug/l	EPA DRAFT 1633
Perfluoroheptanoic acid ^a	0.0033 J	0.0038	0.00096	ug/l	EPA DRAFT 1633
Perfluorooctanoic acid ^a	0.0107	0.0038	0.00096	ug/l	EPA DRAFT 1633
Perfluorobutanesulfonic acid ^a	0.0064	0.0038	0.0019	ug/l	EPA DRAFT 1633
Perfluorooctanesulfonic acid ^a	0.0023 J	0.0038	0.0019	ug/l	EPA DRAFT 1633

DA60875-6 BLANK

No hits reported in this sample.

(a) Analysis performed at SGS Orlando, FL.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	WEST FORK BRUSH CREEK		Date Sampled:	12/19/23
Lab Sample ID:	DA60875-2		Date Received:	12/21/23
Matrix:	AQ - Water		Percent Solids:	n/a
Method:	EPA 537M BY ID EPA 537 MOD			
Project:	PFAS Sampling			

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	2Q118681.D	1	01/09/24 22:35	AFL	01/08/24 10:27	F:OP1021	F:S2Q1694
Run #2 ^b	2Q118773.D	5	01/11/24 03:15	AFL	01/08/24 10:27	F:OP1021	F:S2Q1695

Run #	Initial Volume	Final Volume
Run #1	245 ml	1.0 ml
Run #2	245 ml	1.0 ml

CAS No.	Compound	Result	RL	MDL	Units	Q
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PERFLUOROALKYL CARBOXYLIC ACIDS

375-22-4	Perfluorobutanoic acid	ND	0.0041	0.0020	ug/l	
2706-90-3	Perfluoropentanoic acid	ND	0.0020	0.0010	ug/l	
307-24-4	Perfluorohexanoic acid	ND	0.0020	0.0010	ug/l	
375-85-9	Perfluoroheptanoic acid	ND	0.0020	0.0010	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0020	0.0010	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0020	0.0010	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0020	0.0010	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND ^c	0.010	0.0051	ug/l	
307-55-1	Perfluorododecanoic acid ^d	ND ^c	0.010	0.0051	ug/l	
72629-94-8	Perfluorotridecanoic acid ^d	ND ^c	0.010	0.0051	ug/l	
376-06-7	Perfluorotetradecanoic acid ^d	ND ^c	0.010	0.0051	ug/l	

PERFLUOROALKYL SULFONIC ACIDS

375-73-5	Perfluorobutanesulfonic acid	ND	0.0020	0.0010	ug/l	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.0020	0.0010	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0020	0.0010	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0020	0.0010	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0020	0.0010	ug/l	
68259-12-1	Perfluorononanesulfonic acid	ND	0.0020	0.0010	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND ^c	0.010	0.0051	ug/l	

PERFLUORO OCTANESULFONAMIDES

754-91-6	PFOSA ^d	ND ^c	0.020	0.010	ug/l	
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PERFLUORO OCTANESULFONAMIDOACETIC ACIDS

2355-31-9	MeFOSAA	ND ^c	0.020	0.010	ug/l	
2991-50-6	EtFOSAA	ND ^c	0.020	0.010	ug/l	

FLUOROTELOMER SULFONATES

757124-72-4	4:2 Fluorotelomer sulfonate	ND	0.0082	0.0020	ug/l	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.0082	0.0020	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID: WEST FORK BRUSH CREEK Lab Sample ID: DA60875-2 Matrix: AQ - Water Method: EPA 537M BY ID EPA 537 MOD Project: PFAS Sampling	Date Sampled: 12/19/23 Date Received: 12/21/23 Percent Solids: n/a
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CAS No.	Compound	Result	RL	MDL	Units	Q
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.0082	0.0020	ug/l	

NEXT GENERATION PFAS ANALYTES

13252-13-6	HFPO-DA (GenX)	ND	0.0041	0.0020	ug/l	
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CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFBA	87%	99%	35-135%
	13C5-PFPeA	86%	102%	50-150%
	13C5-PFHxA	85%	100%	50-150%
	13C4-PFHpA	83%	97%	50-150%
	13C8-PFOA	80%	89%	50-150%
	13C9-PFNA	71%	74%	50-150%
	13C6-PFDA	58%	57%	50-150%
	13C7-PFUnDA	34% ^e	41%	40-140%
	13C2-PFDoDA	16% ^e	26% ^e	40-140%
	13C2-PFTeDA	3% ^e	8% ^e	30-130%
	13C3-PFBS	83%	98%	50-150%
	13C3-PFHxS	75%	86%	50-150%
	13C8-PFOS	58%	57%	50-150%
	13C8-FOSA	24% ^e	29% ^e	30-130%
	d3-MeFOSAA	37% ^e	52%	40-140%
	d5-EtFOSAA	28% ^e	44%	40-140%
	13C2-4:2FTS	82%	97%	50-150%
	13C2-6:2FTS	79%	91%	50-150%
	13C2-8:2FTS	63%	58%	50-150%
	13C3-HFPO-DA	84%	100%	50-150%

- (a) Analysis performed at SGS Orlando, FL.
- (b) Dilution required (ID recovery standard failure). Analysis performed at SGS Orlando, FL.
- (c) Result is from Run# 2
- (d) Associated ID Standard outside control limits.
- (e) Outside control limits.

ND = Not detected	MDL = Method Detection Limit	J = Indicates an estimated value
RL = Reporting Limit		B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range		N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WEST FORK BRUSH CREEK		Date Sampled:	12/19/23
Lab Sample ID:	DA60875-2	Date Received:	12/21/23	
Matrix:	AQ - Water	Percent Solids:	n/a	
Method:	EPA DRAFT 1633 EPA 1633 DRAFT			
Project:	PFAS Sampling			

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	7Q1287.D	1	01/05/24 19:05	AFL	01/02/24 08:40	F:OP930	F:S7Q21
Run #2							

Run #	Initial Volume	Final Volume
Run #1	250 ml	5.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
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PERFLUOROALKYL CARBOXYLIC ACIDS

375-22-4	Perfluorobutanoic acid	ND	0.016	0.0080	ug/l	
2706-90-3	Perfluoropentanoic acid	ND	0.0080	0.0020	ug/l	
307-24-4	Perfluorohexanoic acid	ND	0.0040	0.0010	ug/l	
375-85-9	Perfluoroheptanoic acid	ND	0.0040	0.0010	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0040	0.0010	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0040	0.0012	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0040	0.0010	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0040	0.0012	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0040	0.0012	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0040	0.0017	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0040	0.0010	ug/l	

PERFLUOROALKYL SULFONIC ACIDS

375-73-5	Perfluorobutanesulfonic acid	ND	0.0040	0.0020	ug/l	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.0040	0.0022	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0040	0.0020	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0040	0.0020	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0040	0.0020	ug/l	
68259-12-1	Perfluorononanesulfonic acid	ND	0.0040	0.0020	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0040	0.0020	ug/l	
79780-39-5	Perfluorododecanesulfonic aci	ND	0.0040	0.0023	ug/l	

FLUOROTELOMER SULFONIC ACIDS

757124-72-4	4:2 Fluorotelomer sulfonate	ND	0.016	0.0080	ug/l	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.016	0.0080	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.016	0.0082	ug/l	

PERFLUOROCTANE SULFONAMIDES

754-91-6	PFOSA	ND	0.0040	0.0020	ug/l	
31506-32-8	MeFOSA	ND	0.0040	0.0020	ug/l	
4151-50-2	EtFOSA	ND	0.0040	0.0020	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID: WEST FORK BRUSH CREEK	
Lab Sample ID: DA60875-2	Date Sampled: 12/19/23
Matrix: AQ - Water	Date Received: 12/21/23
Method: EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids: n/a
Project: PFAS Sampling	

CAS No.	Compound	Result	RL	MDL	Units	Q
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PERFLUOROOCCTANE SULFONAMIDOACETIC ACIDS

2355-31-9	MeFOSAA	ND	0.0040	0.0020	ug/l	
2991-50-6	EtFOSAA	ND	0.0040	0.0027	ug/l	

PERFLUOROOCCTANE SULFONAMIDO ETHANOLS

24448-09-7	MeFOSE	ND	0.040	0.020	ug/l	
1691-99-2	EtFOSE	ND	0.040	0.020	ug/l	

PER and POLYFLUOROETHER CARBOXYLIC ACIDS

13252-13-6	HFPO-DA (GenX)	ND	0.016	0.0040	ug/l	
919005-14-4	ADONA	ND	0.016	0.0040	ug/l	
377-73-1	PFMPA	ND	0.0080	0.0020	ug/l	
863090-89-5	PFMBA	ND	0.0080	0.0023	ug/l	
151772-58-6	NFDHA	ND	0.0080	0.0024	ug/l	

PER and POLYFLUOROETHER SULFONIC ACIDS

756426-58-1	9Cl-PF3ONS (F-53B Major)	ND	0.016	0.0040	ug/l	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	ND	0.016	0.0040	ug/l	
113507-82-7	PFEESA	ND	0.0080	0.0020	ug/l	

FLUOROTELOMER CARBOXYLIC ACIDS

356-02-5	3:3 Fluorotelomer carboxylate	ND	0.020	0.010	ug/l	
914637-49-3	5:3 Fluorotelomer carboxylate	ND	0.10	0.020	ug/l	
812-70-4	7:3 Fluorotelomer carboxylate	ND	0.10	0.020	ug/l	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFBA	94%		20-150%
	13C5-PFPeA	101%		20-150%
	13C5-PFHxA	96%		20-150%
	13C4-PFHpA	97%		20-150%
	13C8-PFOA	93%		20-150%
	13C9-PFNA	97%		20-150%
	13C6-PFDA	88%		20-150%
	13C7-PFUnDA	78%		20-150%
	13C2-PFDoDA	72%		20-150%
	13C2-PFTeDA	65%		20-150%
	13C3-PFBS	95%		20-150%
	13C3-PFHxS	95%		20-150%

ND = Not detected	MDL = Method Detection Limit	J = Indicates an estimated value
RL = Reporting Limit		B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range		N = Indicates presumptive evidence of a compound

Report of Analysis

3.1
3

Client Sample ID: WEST FORK BRUSH CREEK	
Lab Sample ID: DA60875-2	Date Sampled: 12/19/23
Matrix: AQ - Water	Date Received: 12/21/23
Method: EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids: n/a
Project: PFAS Sampling	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C8-PFOS	90%		20-150%
	13C8-FOSA	92%		20-150%
	d3-MeFOSA	66%		20-150%
	d5-EtFOSA	64%		20-150%
	d3-MeFOSAA	77%		20-150%
	d5-EtFOSAA	72%		20-150%
	d7-MeFOSE	68%		20-150%
	d9-EtFOSE	63%		20-150%
	13C2-4:2FTS	90%		20-180%
	13C2-6:2FTS	96%		20-180%
	13C2-8:2FTS	87%		20-180%
	13C3-HFPO-DA	94%		20-150%

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected	MDL = Method Detection Limit	J = Indicates an estimated value
RL = Reporting Limit		B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range		N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: WTP RAW-SOURCE#1	
Lab Sample ID: DA60875-3	Date Sampled: 12/19/23
Matrix: AQ - Water	Date Received: 12/21/23
Method: EPA 537M BY ID EPA 537 MOD	Percent Solids: n/a
Project: PFAS Sampling	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	2Q118682.D	1	01/09/24 22:51	AFL	01/08/24 10:27	F:OP1021	F:S2Q1694
Run #2							

Run #	Initial Volume	Final Volume
Run #1	255 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
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PERFLUOROALKYL CARBOXYLIC ACIDS

375-22-4	Perfluorobutanoic acid	ND	0.0039	0.0020	ug/l	
2706-90-3	Perfluoropentanoic acid	ND	0.0020	0.00098	ug/l	
307-24-4	Perfluorohexanoic acid	ND	0.0020	0.00098	ug/l	
375-85-9	Perfluoroheptanoic acid	ND	0.0020	0.00098	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0020	0.00098	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0020	0.00098	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0020	0.00098	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0020	0.00098	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0020	0.00098	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0020	0.00098	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0020	0.00098	ug/l	

PERFLUOROALKYL SULFONIC ACIDS

375-73-5	Perfluorobutanesulfonic acid	ND	0.0020	0.00098	ug/l	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.0020	0.00098	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0020	0.00098	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0020	0.00098	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0020	0.00098	ug/l	
68259-12-1	Perfluorononanesulfonic acid	ND	0.0020	0.00098	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0020	0.00098	ug/l	

PERFLUORO OCTANESULFONAMIDES

754-91-6	PFOSA	ND	0.0039	0.0020	ug/l	
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PERFLUORO OCTANESULFONAMIDOACETIC ACIDS

2355-31-9	MeFOSAA	ND	0.0039	0.0020	ug/l	
2991-50-6	EtFOSAA	ND	0.0039	0.0020	ug/l	

FLUOROTELOMER SULFONATES

757124-72-4	4:2 Fluorotelomer sulfonate	ND	0.0078	0.0020	ug/l	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.0078	0.0020	ug/l	

ND = Not detected	MDL = Method Detection Limit	J = Indicates an estimated value
RL = Reporting Limit		B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range		N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID: WTP RAW-SOURCE#1 Lab Sample ID: DA60875-3 Matrix: AQ - Water Method: EPA 537M BY ID EPA 537 MOD Project: PFAS Sampling	Date Sampled: 12/19/23 Date Received: 12/21/23 Percent Solids: n/a
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CAS No.	Compound	Result	RL	MDL	Units	Q
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.0078	0.0020	ug/l	

NEXT GENERATION PFAS ANALYTES

13252-13-6	HFPO-DA (GenX)	ND	0.0039	0.0020	ug/l	
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CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFBA	85%		35-135%
	13C5-PFPeA	89%		50-150%
	13C5-PFHxA	88%		50-150%
	13C4-PFHpA	87%		50-150%
	13C8-PFOA	85%		50-150%
	13C9-PFNA	81%		50-150%
	13C6-PFDA	79%		50-150%
	13C7-PFUnDA	70%		40-140%
	13C2-PFDoDA	64%		40-140%
	13C2-PFTeDA	60%		30-130%
	13C3-PFBS	89%		50-150%
	13C3-PFHxS	85%		50-150%
	13C8-PFOS	70%		50-150%
	13C8-FOSA	80%		30-130%
	d3-MeFOSAA	80%		40-140%
	d5-EtFOSAA	77%		40-140%
	13C2-4:2FTS	85%		50-150%
	13C2-6:2FTS	80%		50-150%
	13C2-8:2FTS	76%		50-150%
	13C3-HFPO-DA	87%		50-150%

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected	MDL = Method Detection Limit	J = Indicates an estimated value
RL = Reporting Limit		B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range		N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: WTP RAW-SOURCE#1	
Lab Sample ID: DA60875-3	Date Sampled: 12/19/23
Matrix: AQ - Water	Date Received: 12/21/23
Method: EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids: n/a
Project: PFAS Sampling	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	7Q1288.D	1	01/05/24 19:19	AFL	01/02/24 08:40	F:OP930	F:S7Q21
Run #2							

Run #	Initial Volume	Final Volume
Run #1	260 ml	5.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
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PERFLUOROALKYL CARBOXYLIC ACIDS

375-22-4	Perfluorobutanoic acid	ND	0.015	0.0077	ug/l	
2706-90-3	Perfluoropentanoic acid	ND	0.0077	0.0019	ug/l	
307-24-4	Perfluorohexanoic acid	ND	0.0038	0.00096	ug/l	
375-85-9	Perfluoroheptanoic acid	ND	0.0038	0.00096	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0038	0.00096	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0038	0.0012	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0038	0.00096	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0038	0.0012	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0038	0.0012	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0038	0.0016	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0038	0.00096	ug/l	

PERFLUOROALKYL SULFONIC ACIDS

375-73-5	Perfluorobutanesulfonic acid	ND	0.0038	0.0019	ug/l	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.0038	0.0022	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0038	0.0019	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0038	0.0019	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0038	0.0019	ug/l	
68259-12-1	Perfluorononanesulfonic acid	ND	0.0038	0.0019	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0038	0.0019	ug/l	
79780-39-5	Perfluorododecanesulfonic aci	ND	0.0038	0.0022	ug/l	

FLUOROTELOMER SULFONIC ACIDS

757124-72-4	4:2 Fluorotelomer sulfonate	ND	0.015	0.0077	ug/l	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.015	0.0077	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.015	0.0079	ug/l	

PERFLUOROCTANE SULFONAMIDES

754-91-6	PFOSA	ND	0.0038	0.0019	ug/l	
31506-32-8	MeFOSA	ND	0.0038	0.0019	ug/l	
4151-50-2	EtFOSA	ND	0.0038	0.0019	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID: WTP RAW-SOURCE#1	
Lab Sample ID: DA60875-3	Date Sampled: 12/19/23
Matrix: AQ - Water	Date Received: 12/21/23
Method: EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids: n/a
Project: PFAS Sampling	

CAS No.	Compound	Result	RL	MDL	Units	Q
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PERFLUOROOCCTANE SULFONAMIDOACETIC ACIDS

2355-31-9	MeFOSAA	ND	0.0038	0.0019	ug/l
2991-50-6	EtFOSAA	ND	0.0038	0.0026	ug/l

PERFLUOROOCCTANE SULFONAMIDO ETHANOLS

24448-09-7	MeFOSE	ND	0.038	0.019	ug/l
1691-99-2	EtFOSE	ND	0.038	0.019	ug/l

PER and POLYFLUOROETHER CARBOXYLIC ACIDS

13252-13-6	HFPO-DA (GenX)	ND	0.015	0.0038	ug/l
919005-14-4	ADONA	ND	0.015	0.0038	ug/l
377-73-1	PFMPA	ND	0.0077	0.0019	ug/l
863090-89-5	PFMBA	ND	0.0077	0.0022	ug/l
151772-58-6	NFDHA	ND	0.0077	0.0023	ug/l

PER and POLYFLUOROETHER SULFONIC ACIDS

756426-58-1	9Cl-PF3ONS (F-53B Major)	ND	0.015	0.0038	ug/l
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	ND	0.015	0.0038	ug/l
113507-82-7	PFEESA	ND	0.0077	0.0019	ug/l

FLUOROTELOMER CARBOXYLIC ACIDS

356-02-5	3:3 Fluorotelomer carboxylate	ND	0.019	0.0096	ug/l
914637-49-3	5:3 Fluorotelomer carboxylate	ND	0.096	0.019	ug/l
812-70-4	7:3 Fluorotelomer carboxylate	ND	0.096	0.019	ug/l

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFBA	92%		20-150%
	13C5-PFPeA	98%		20-150%
	13C5-PFHxA	91%		20-150%
	13C4-PFHpA	94%		20-150%
	13C8-PFOA	91%		20-150%
	13C9-PFNA	95%		20-150%
	13C6-PFDA	87%		20-150%
	13C7-PFUnDA	79%		20-150%
	13C2-PFDoDA	71%		20-150%
	13C2-PFTeDA	67%		20-150%
	13C3-PFBS	94%		20-150%
	13C3-PFHxS	91%		20-150%

ND = Not detected	MDL = Method Detection Limit	J = Indicates an estimated value
RL = Reporting Limit		B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range		N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: WTP RAW-SOURCE#1	
Lab Sample ID: DA60875-3	Date Sampled: 12/19/23
Matrix: AQ - Water	Date Received: 12/21/23
Method: EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids: n/a
Project: PFAS Sampling	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C8-PFOS	89%		20-150%
	13C8-FOSA	80%		20-150%
	d3-MeFOSA	66%		20-150%
	d5-EtFOSA	68%		20-150%
	d3-MeFOSAA	83%		20-150%
	d5-EtFOSAA	71%		20-150%
	d7-MeFOSE	60%		20-150%
	d9-EtFOSE	58%		20-150%
	13C2-4:2FTS	92%		20-180%
	13C2-6:2FTS	85%		20-180%
	13C2-8:2FTS	82%		20-180%
	13C3-HFPO-DA	86%		20-150%

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected	MDL = Method Detection Limit	J = Indicates an estimated value
RL = Reporting Limit		B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range		N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SCPS-SOURCE#4@ZIEGLER	
Lab Sample ID: DA60875-4	Date Sampled: 12/19/23
Matrix: AQ - Water	Date Received: 12/21/23
Method: EPA 537M BY ID EPA 537 MOD	Percent Solids: n/a
Project: PFAS Sampling	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	2Q118685.D	1	01/09/24 23:41	AFL	01/08/24 10:27	F:OP1021	F:S2Q1694
Run #2							

Run #	Initial Volume	Final Volume
Run #1	260 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
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PERFLUOROALKYL CARBOXYLIC ACIDS

375-22-4	Perfluorobutanoic acid	ND	0.0038	0.0019	ug/l	
2706-90-3	Perfluoropentanoic acid	ND	0.0019	0.00096	ug/l	
307-24-4	Perfluorohexanoic acid	ND	0.0019	0.00096	ug/l	
375-85-9	Perfluoroheptanoic acid	ND	0.0019	0.00096	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0019	0.00096	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0019	0.00096	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0019	0.00096	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0019	0.00096	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0019	0.00096	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0019	0.00096	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0019	0.00096	ug/l	

PERFLUOROALKYL SULFONIC ACIDS

375-73-5	Perfluorobutanesulfonic acid	ND	0.0019	0.00096	ug/l	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.0019	0.00096	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0019	0.00096	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0019	0.00096	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0019	0.00096	ug/l	
68259-12-1	Perfluorononanesulfonic acid	ND	0.0019	0.00096	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0019	0.00096	ug/l	

PERFLUORO OCTANESULFONAMIDES

754-91-6	PFOSA	ND	0.0038	0.0019	ug/l	
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PERFLUORO OCTANESULFONAMIDOACETIC ACIDS

2355-31-9	MeFOSAA	ND	0.0038	0.0019	ug/l	
2991-50-6	EtFOSAA	ND	0.0038	0.0019	ug/l	

FLUOROTELOMER SULFONATES

757124-72-4	4:2 Fluorotelomer sulfonate	ND	0.0077	0.0019	ug/l	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.0077	0.0019	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SCPS-SOURCE#4@ZIEGLER Lab Sample ID: DA60875-4 Matrix: AQ - Water Method: EPA 537M BY ID EPA 537 MOD Project: PFAS Sampling	Date Sampled: 12/19/23 Date Received: 12/21/23 Percent Solids: n/a
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CAS No.	Compound	Result	RL	MDL	Units	Q
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.0077	0.0019	ug/l	

NEXT GENERATION PFAS ANALYTES

13252-13-6	HFPO-DA (GenX)	ND	0.0038	0.0019	ug/l	
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CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFBA	91%		35-135%
	13C5-PFPeA	92%		50-150%
	13C5-PFHxA	91%		50-150%
	13C4-PFHpA	90%		50-150%
	13C8-PFOA	86%		50-150%
	13C9-PFNA	78%		50-150%
	13C6-PFDA	72%		50-150%
	13C7-PFUnDA	66%		40-140%
	13C2-PFDoDA	61%		40-140%
	13C2-PFTeDA	53%		30-130%
	13C3-PFBS	90%		50-150%
	13C3-PFHxS	85%		50-150%
	13C8-PFOS	67%		50-150%
	13C8-FOSA	32%		30-130%
	d3-MeFOSAA	75%		40-140%
	d5-EtFOSAA	69%		40-140%
	13C2-4:2FTS	87%		50-150%
	13C2-6:2FTS	82%		50-150%
	13C2-8:2FTS	77%		50-150%
	13C3-HFPO-DA	88%		50-150%

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected	MDL = Method Detection Limit	J = Indicates an estimated value
RL = Reporting Limit		B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range		N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SCPS-SOURCE#4@ZIEGLER		Date Sampled:	12/19/23
Lab Sample ID:	DA60875-4	Date Received:	12/21/23	
Matrix:	AQ - Water	Percent Solids:	n/a	
Method:	EPA DRAFT 1633 EPA 1633 DRAFT			
Project:	PFAS Sampling			

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	7Q1292.D	1	01/05/24 20:14	AFL	01/02/24 08:40	F:OP930	F:S7Q21
Run #2							

Run #	Initial Volume	Final Volume
Run #1	265 ml	5.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
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PERFLUOROALKYL CARBOXYLIC ACIDS

375-22-4	Perfluorobutanoic acid	ND	0.015	0.0075	ug/l	
2706-90-3	Perfluoropentanoic acid	ND	0.0075	0.0019	ug/l	
307-24-4	Perfluorohexanoic acid	ND	0.0038	0.00094	ug/l	
375-85-9	Perfluoroheptanoic acid	ND	0.0038	0.00094	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0038	0.00094	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0038	0.0012	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0038	0.00094	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0038	0.0011	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0038	0.0011	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0038	0.0016	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0038	0.00094	ug/l	

PERFLUOROALKYL SULFONIC ACIDS

375-73-5	Perfluorobutanesulfonic acid	ND	0.0038	0.0019	ug/l	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.0038	0.0021	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0038	0.0019	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0038	0.0019	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0038	0.0019	ug/l	
68259-12-1	Perfluorononanesulfonic acid	ND	0.0038	0.0019	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0038	0.0019	ug/l	
79780-39-5	Perfluorododecanesulfonic aci	ND	0.0038	0.0022	ug/l	

FLUOROTELOMER SULFONIC ACIDS

757124-72-4	4:2 Fluorotelomer sulfonate	ND	0.015	0.0075	ug/l	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.015	0.0075	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.015	0.0078	ug/l	

PERFLUOROCTANE SULFONAMIDES

754-91-6	PFOSA	ND	0.0038	0.0019	ug/l	
31506-32-8	MeFOSA	ND	0.0038	0.0019	ug/l	
4151-50-2	EtFOSA	ND	0.0038	0.0019	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SCPS-SOURCE#4@ZIEGLER	
Lab Sample ID: DA60875-4	Date Sampled: 12/19/23
Matrix: AQ - Water	Date Received: 12/21/23
Method: EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids: n/a
Project: PFAS Sampling	

CAS No.	Compound	Result	RL	MDL	Units	Q
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PERFLUOROOCCTANE SULFONAMIDOACETIC ACIDS

2355-31-9	MeFOSAA	ND	0.0038	0.0019	ug/l
2991-50-6	EtFOSAA	ND	0.0038	0.0025	ug/l

PERFLUOROOCCTANE SULFONAMIDO ETHANOLS

24448-09-7	MeFOSE	ND	0.038	0.019	ug/l
1691-99-2	EtFOSE	ND	0.038	0.019	ug/l

PER and POLYFLUOROETHER CARBOXYLIC ACIDS

13252-13-6	HFPO-DA (GenX)	ND	0.015	0.0038	ug/l
919005-14-4	ADONA	ND	0.015	0.0038	ug/l
377-73-1	PFMPA	ND	0.0075	0.0019	ug/l
863090-89-5	PFMBA	ND	0.0075	0.0022	ug/l
151772-58-6	NFDHA	ND	0.0075	0.0023	ug/l

PER and POLYFLUOROETHER SULFONIC ACIDS

756426-58-1	9Cl-PF3ONS (F-53B Major)	ND	0.015	0.0038	ug/l
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	ND	0.015	0.0038	ug/l
113507-82-7	PFEESA	ND	0.0075	0.0019	ug/l

FLUOROTELOMER CARBOXYLIC ACIDS

356-02-5	3:3 Fluorotelomer carboxylate	ND	0.019	0.0094	ug/l
914637-49-3	5:3 Fluorotelomer carboxylate	ND	0.094	0.019	ug/l
812-70-4	7:3 Fluorotelomer carboxylate	ND	0.094	0.019	ug/l

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFBA	90%		20-150%
	13C5-PFPeA	96%		20-150%
	13C5-PFHxA	91%		20-150%
	13C4-PFHpA	92%		20-150%
	13C8-PFOA	90%		20-150%
	13C9-PFNA	96%		20-150%
	13C6-PFDA	82%		20-150%
	13C7-PFUnDA	65%		20-150%
	13C2-PFDoDA	55%		20-150%
	13C2-PFTeDA	44%		20-150%
	13C3-PFBS	91%		20-150%
	13C3-PFHxS	91%		20-150%

ND = Not detected	MDL = Method Detection Limit	J = Indicates an estimated value
RL = Reporting Limit		B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range		N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SCPS-SOURCE#4@ZIEGLER	
Lab Sample ID: DA60875-4	Date Sampled: 12/19/23
Matrix: AQ - Water	Date Received: 12/21/23
Method: EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids: n/a
Project: PFAS Sampling	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C8-PFOS	90%		20-150%
	13C8-FOSA	89%		20-150%
	d3-MeFOSA	49%		20-150%
	d5-EtFOSA	49%		20-150%
	d3-MeFOSAA	72%		20-150%
	d5-EtFOSAA	66%		20-150%
	d7-MeFOSE	49%		20-150%
	d9-EtFOSE	45%		20-150%
	13C2-4:2FTS	103%		20-180%
	13C2-6:2FTS	85%		20-180%
	13C2-8:2FTS	69%		20-180%
	13C3-HFPO-DA	89%		20-150%

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SWSD-WWTP EFFLUENT 003B	
Lab Sample ID: DA60875-5	Date Sampled: 12/19/23
Matrix: AQ - Effluent	Date Received: 12/21/23
Method: EPA 537M BY ID EPA 537 MOD	Percent Solids: n/a
Project: PFAS Sampling	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	2Q118686.D	1	01/09/24 23:57	AFL	01/08/24 10:27	F:OP1021	F:S2Q1694
Run #2							

Run #	Initial Volume	Final Volume
Run #1	250 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
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PERFLUOROALKYL CARBOXYLIC ACIDS

375-22-4	Perfluorobutanoic acid	0.0086	0.0040	0.0020	ug/l	
2706-90-3	Perfluoropentanoic acid	0.0215	0.0020	0.0010	ug/l	
307-24-4	Perfluorohexanoic acid	0.0119	0.0020	0.0010	ug/l	
375-85-9	Perfluoroheptanoic acid	0.0029	0.0020	0.0010	ug/l	
335-67-1	Perfluorooctanoic acid	0.0095	0.0020	0.0010	ug/l	
375-95-1	Perfluorononanoic acid	0.0010	0.0020	0.0010	ug/l	J
335-76-2	Perfluorodecanoic acid	0.0011	0.0020	0.0010	ug/l	J
2058-94-8	Perfluoroundecanoic acid	ND	0.0020	0.0010	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0020	0.0010	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0020	0.0010	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0020	0.0010	ug/l	

PERFLUOROALKYL SULFONIC ACIDS

375-73-5	Perfluorobutanesulfonic acid	0.0039	0.0020	0.0010	ug/l	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.0020	0.0010	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0020	0.0010	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0020	0.0010	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	0.0024	0.0020	0.0010	ug/l	
68259-12-1	Perfluorononanesulfonic acid	ND	0.0020	0.0010	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0020	0.0010	ug/l	

PERFLUORO OCTANESULFONAMIDES

754-91-6	PFOSA	ND	0.0040	0.0020	ug/l	
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PERFLUORO OCTANESULFONAMIDOACETIC ACIDS

2355-31-9	MeFOSAA	ND	0.0040	0.0020	ug/l	
2991-50-6	EtFOSAA	ND	0.0040	0.0020	ug/l	

FLUOROTELOMER SULFONATES

757124-72-4	4:2 Fluorotelomer sulfonate	ND	0.0080	0.0020	ug/l	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.0080	0.0020	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SWSD-WWTP EFFLUENT 003B	
Lab Sample ID: DA60875-5	Date Sampled: 12/19/23
Matrix: AQ - Effluent	Date Received: 12/21/23
Method: EPA 537M BY ID EPA 537 MOD	Percent Solids: n/a
Project: PFAS Sampling	

CAS No.	Compound	Result	RL	MDL	Units	Q
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.0080	0.0020	ug/l	

NEXT GENERATION PFAS ANALYTES

13252-13-6	HFPO-DA (GenX)	ND	0.0040	0.0020	ug/l	
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CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFBA	70%		35-135%
	13C5-PFPeA	71%		50-150%
	13C5-PFHxA	73%		50-150%
	13C4-PFHpA	78%		50-150%
	13C8-PFOA	80%		50-150%
	13C9-PFNA	81%		50-150%
	13C6-PFDA	84%		50-150%
	13C7-PFUnDA	71%		40-140%
	13C2-PFDoDA	56%		40-140%
	13C2-PFTeDA	31%		30-130%
	13C3-PFBS	76%		50-150%
	13C3-PFHxS	82%		50-150%
	13C8-PFOS	78%		50-150%
	13C8-FOSA	30%		30-130%
	d3-MeFOSAA	87%		40-140%
	d5-EtFOSAA	86%		40-140%
	13C2-4:2FTS	74%		50-150%
	13C2-6:2FTS	80%		50-150%
	13C2-8:2FTS	87%		50-150%
	13C3-HFPO-DA	69%		50-150%

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected	MDL = Method Detection Limit	J = Indicates an estimated value
RL = Reporting Limit		B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range		N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SWSD-WWTP EFFLUENT 003B		Date Sampled:	12/19/23
Lab Sample ID:	DA60875-5		Date Received:	12/21/23
Matrix:	AQ - Effluent		Percent Solids:	n/a
Method:	EPA DRAFT 1633 EPA 1633 DRAFT			
Project:	PFAS Sampling			

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	7Q1294.D	1	01/05/24 20:42	AFL	01/02/24 08:40	F:OP930	F:S7Q21
Run #2							

Run #	Initial Volume	Final Volume
Run #1	260 ml	5.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
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PERFLUOROALKYL CARBOXYLIC ACIDS

375-22-4	Perfluorobutanoic acid	ND	0.015	0.0077	ug/l	
2706-90-3	Perfluoropentanoic acid	0.0215	0.0077	0.0019	ug/l	
307-24-4	Perfluorohexanoic acid	0.0136	0.0038	0.00096	ug/l	
375-85-9	Perfluoroheptanoic acid	0.0033	0.0038	0.00096	ug/l	J
335-67-1	Perfluorooctanoic acid	0.0107	0.0038	0.00096	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0038	0.0012	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0038	0.00096	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0038	0.0012	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0038	0.0012	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0038	0.0016	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0038	0.00096	ug/l	

PERFLUOROALKYL SULFONIC ACIDS

375-73-5	Perfluorobutanesulfonic acid	0.0064	0.0038	0.0019	ug/l	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.0038	0.0022	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0038	0.0019	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0038	0.0019	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	0.0023	0.0038	0.0019	ug/l	J
68259-12-1	Perfluorononanesulfonic acid	ND	0.0038	0.0019	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0038	0.0019	ug/l	
79780-39-5	Perfluorododecanesulfonic aci	ND	0.0038	0.0022	ug/l	

FLUOROTELOMER SULFONIC ACIDS

757124-72-4	4:2 Fluorotelomer sulfonate	ND	0.015	0.0077	ug/l	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.015	0.0077	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.015	0.0079	ug/l	

PERFLUOROCTANE SULFONAMIDES

754-91-6	PFOSA	ND	0.0038	0.0019	ug/l	
31506-32-8	MeFOSA	ND	0.0038	0.0019	ug/l	
4151-50-2	EtFOSA	ND	0.0038	0.0019	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SWSD-WWTP EFFLUENT 003B		Date Sampled:	12/19/23
Lab Sample ID:	DA60875-5		Date Received:	12/21/23
Matrix:	AQ - Effluent		Percent Solids:	n/a
Method:	EPA DRAFT 1633 EPA 1633 DRAFT			
Project:	PFAS Sampling			

CAS No.	Compound	Result	RL	MDL	Units	Q
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PERFLUOROOCCTANE SULFONAMIDOACETIC ACIDS

2355-31-9	MeFOSAA	ND	0.0038	0.0019	ug/l	
2991-50-6	EtFOSAA	ND	0.0038	0.0026	ug/l	

PERFLUOROOCCTANE SULFONAMIDO ETHANOLS

24448-09-7	MeFOSE	ND	0.038	0.019	ug/l	
1691-99-2	EtFOSE	ND	0.038	0.019	ug/l	

PER and POLYFLUOROETHER CARBOXYLIC ACIDS

13252-13-6	HFPO-DA (GenX)	ND	0.015	0.0038	ug/l	
919005-14-4	ADONA	ND	0.015	0.0038	ug/l	
377-73-1	PFMPA	ND	0.0077	0.0019	ug/l	
863090-89-5	PFMBA	ND	0.0077	0.0022	ug/l	
151772-58-6	NFDHA	ND	0.0077	0.0023	ug/l	

PER and POLYFLUOROETHER SULFONIC ACIDS

756426-58-1	9CI-PF3ONS (F-53B Major)	ND	0.015	0.0038	ug/l	
763051-92-9	11CI-PF3OUdS (F-53B Minor)	ND	0.015	0.0038	ug/l	
113507-82-7	PFEESA	ND	0.0077	0.0019	ug/l	

FLUOROTELOMER CARBOXYLIC ACIDS

356-02-5	3:3 Fluorotelomer carboxylate	ND	0.019	0.0096	ug/l	
914637-49-3	5:3 Fluorotelomer carboxylate	ND	0.096	0.019	ug/l	
812-70-4	7:3 Fluorotelomer carboxylate	ND	0.096	0.019	ug/l	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFBA	91%		20-150%
	13C5-PFPeA	98%		20-150%
	13C5-PFHxA	94%		20-150%
	13C4-PFHpA	94%		20-150%
	13C8-PFOA	89%		20-150%
	13C9-PFNA	92%		20-150%
	13C6-PFDA	81%		20-150%
	13C7-PFUnDA	68%		20-150%
	13C2-PFDoDA	58%		20-150%
	13C2-PFTeDA	42%		20-150%
	13C3-PFBS	90%		20-150%
	13C3-PFHxS	89%		20-150%

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

3.4
3

Client Sample ID: SWSD-WWTP EFFLUENT 003B	
Lab Sample ID: DA60875-5	Date Sampled: 12/19/23
Matrix: AQ - Effluent	Date Received: 12/21/23
Method: EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids: n/a
Project: PFAS Sampling	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C8-PFOS	81%		20-150%
	13C8-FOSA	81%		20-150%
	d3-MeFOSA	59%		20-150%
	d5-EtFOSA	55%		20-150%
	d3-MeFOSAA	74%		20-150%
	d5-EtFOSAA	65%		20-150%
	d7-MeFOSE	53%		20-150%
	d9-EtFOSE	49%		20-150%
	13C2-4:2FTS	103%		20-180%
	13C2-6:2FTS	79%		20-180%
	13C2-8:2FTS	92%		20-180%
	13C3-HFPO-DA	87%		20-150%

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected	MDL = Method Detection Limit	J = Indicates an estimated value
RL = Reporting Limit		B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range		N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: BLANK		
Lab Sample ID: DA60875-6		Date Sampled: 12/19/23
Matrix: AQ - Field Blank Water		Date Received: 12/21/23
Method: EPA 537M BY ID EPA 537 MOD		Percent Solids: n/a
Project: PFAS Sampling		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	5Q24127.D	1	01/04/24 03:02	AFL	01/02/24 09:55	F:OP927	F:S5Q378
Run #2 ^b	5Q24248.D	5	01/05/24 18:40	AFL	01/02/24 09:55	F:OP927	F:S5Q380

Run #	Initial Volume	Final Volume
Run #1	280 ml	1.0 ml
Run #2	280 ml	1.0 ml

CAS No. Compound Result RL MDL Units Q

PERFLUOROALKYL CARBOXYLIC ACIDS

375-22-4	Perfluorobutanoic acid	ND	0.0036	0.0018	ug/l	
2706-90-3	Perfluoropentanoic acid	ND ^c	0.0089	0.0045	ug/l	
307-24-4	Perfluorohexanoic acid	ND ^c	0.0089	0.0045	ug/l	
375-85-9	Perfluoroheptanoic acid	ND ^c	0.0089	0.0045	ug/l	
335-67-1	Perfluorooctanoic acid	ND ^c	0.0089	0.0045	ug/l	
375-95-1	Perfluorononanoic acid	ND ^c	0.0089	0.0045	ug/l	
335-76-2	Perfluorodecanoic acid	ND ^c	0.0089	0.0045	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND ^c	0.0089	0.0045	ug/l	
307-55-1	Perfluorododecanoic acid	ND ^c	0.0089	0.0045	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND ^c	0.0089	0.0045	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND ^c	0.0089	0.0045	ug/l	

PERFLUOROALKYL SULFONIC ACIDS

375-73-5	Perfluorobutanesulfonic acid ^d	ND ^c	0.0089	0.0045	ug/l	
2706-91-4	Perfluoropentanesulfonic acid ^d	ND ^c	0.0089	0.0045	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND ^c	0.0089	0.0045	ug/l	
375-92-8	Perfluoroheptanesulfonic acid ^d	ND ^c	0.0089	0.0045	ug/l	
1763-23-1	Perfluorooctanesulfonic acid ^d	ND ^c	0.0089	0.0045	ug/l	
68259-12-1	Perfluorononanesulfonic acid ^d	ND ^c	0.0089	0.0045	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND ^c	0.0089	0.0045	ug/l	

PERFLUORO OCTANESULFONAMIDES

754-91-6	PFOSA	ND	0.0036	0.0018	ug/l	
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PERFLUORO OCTANESULFONAMIDOACETIC ACIDS

2355-31-9	MeFOSAA	ND ^c	0.018	0.0089	ug/l	
2991-50-6	EtFOSAA	ND ^c	0.018	0.0089	ug/l	

FLUOROTELOMER SULFONATES

757124-72-4	4:2 Fluorotelomer sulfonate	ND ^c	0.036	0.0089	ug/l	
27619-97-2	6:2 Fluorotelomer sulfonate	ND ^c	0.036	0.0089	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: BLANK Lab Sample ID: DA60875-6 Matrix: AQ - Field Blank Water Method: EPA 537M BY ID EPA 537 MOD Project: PFAS Sampling	Date Sampled: 12/19/23 Date Received: 12/21/23 Percent Solids: n/a
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CAS No.	Compound	Result	RL	MDL	Units	Q
39108-34-4	8:2 Fluorotelomer sulfonate	ND ^c	0.036	0.0089	ug/l	

NEXT GENERATION PFAS ANALYTES

13252-13-6	HFPO-DA (GenX)	ND ^c	0.018	0.0089	ug/l	
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CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFBA	40%	56%	35-135%
	13C5-PFPeA	37% ^e	59%	50-150%
	13C5-PFHxA	34% ^e	63%	50-150%
	13C4-PFHpA	32% ^e	62%	50-150%
	13C8-PFOA	28% ^e	62%	50-150%
	13C9-PFNA	24% ^e	59%	50-150%
	13C6-PFDA	22% ^e	56%	50-150%
	13C7-PFUnDA	20% ^e	53%	40-140%
	13C2-PFDoDA	19% ^e	52%	40-140%
	13C2-PFTeDA	24% ^e	53%	30-130%
	13C3-PFBS	26% ^e	44% ^e	50-150%
	13C3-PFHxS	21% ^e	51%	50-150%
	13C8-PFOS	14% ^e	41% ^e	50-150%
	13C8-FOSA	52%	74%	30-130%
	d3-MeFOSAA	26% ^e	73%	40-140%
	d5-EtFOSAA	24% ^e	74%	40-140%
	13C2-4:2FTS	36% ^e	58%	50-150%
	13C2-6:2FTS	28% ^e	56%	50-150%
	13C2-8:2FTS	23% ^e	53%	50-150%
	13C3-HFPO-DA	34% ^e	71%	50-150%

- (a) Insufficient sample for re-extraction. Analysis performed at SGS Orlando, FL.
- (b) Dilution required (ID recovery standard failure). Analysis performed at SGS Orlando, FL.
- (c) Result is from Run# 2
- (d) Associated ID Standard outside control limits.
- (e) Outside control limits.

ND = Not detected	MDL = Method Detection Limit	J = Indicates an estimated value
RL = Reporting Limit		B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range		N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: BLANK		
Lab Sample ID: DA60875-6		Date Sampled: 12/19/23
Matrix: AQ - Field Blank Water		Date Received: 12/21/23
Method: EPA DRAFT 1633 EPA 1633 DRAFT		Percent Solids: n/a
Project: PFAS Sampling		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	7Q1295.D	1	01/05/24 20:56	AFL	01/02/24 08:40	F:OP930	F:S7Q21
Run #2							

Run #	Initial Volume	Final Volume
Run #1	285 ml	5.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
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PERFLUOROALKYL CARBOXYLIC ACIDS

375-22-4	Perfluorobutanoic acid	ND	0.014	0.0070	ug/l	
2706-90-3	Perfluoropentanoic acid	ND	0.0070	0.0018	ug/l	
307-24-4	Perfluorohexanoic acid	ND	0.0035	0.00088	ug/l	
375-85-9	Perfluoroheptanoic acid	ND	0.0035	0.00088	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0035	0.00088	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0035	0.0011	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0035	0.00088	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0035	0.0011	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0035	0.0011	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0035	0.0015	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0035	0.00088	ug/l	

PERFLUOROALKYL SULFONIC ACIDS

375-73-5	Perfluorobutanesulfonic acid	ND	0.0035	0.0018	ug/l	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.0035	0.0020	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0035	0.0018	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0035	0.0018	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0035	0.0018	ug/l	
68259-12-1	Perfluorononanesulfonic acid	ND	0.0035	0.0018	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0035	0.0018	ug/l	
79780-39-5	Perfluorododecanesulfonic aci	ND	0.0035	0.0020	ug/l	

FLUOROTELOMER SULFONIC ACIDS

757124-72-4	4:2 Fluorotelomer sulfonate	ND	0.014	0.0070	ug/l	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.014	0.0070	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.014	0.0072	ug/l	

PERFLUOROCTANE SULFONAMIDES

754-91-6	PFOSA	ND	0.0035	0.0018	ug/l	
31506-32-8	MeFOSA	ND	0.0035	0.0018	ug/l	
4151-50-2	EtFOSA	ND	0.0035	0.0018	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: BLANK		
Lab Sample ID: DA60875-6		Date Sampled: 12/19/23
Matrix: AQ - Field Blank Water		Date Received: 12/21/23
Method: EPA DRAFT 1633 EPA 1633 DRAFT		Percent Solids: n/a
Project: PFAS Sampling		

CAS No.	Compound	Result	RL	MDL	Units	Q
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PERFLUOROOCCTANE SULFONAMIDOACETIC ACIDS

2355-31-9	MeFOSAA	ND	0.0035	0.0018	ug/l	
2991-50-6	EtFOSAA	ND	0.0035	0.0023	ug/l	

PERFLUOROOCCTANE SULFONAMIDO ETHANOLS

24448-09-7	MeFOSE	ND	0.035	0.018	ug/l	
1691-99-2	EtFOSE	ND	0.035	0.018	ug/l	

PER and POLYFLUOROETHER CARBOXYLIC ACIDS

13252-13-6	HFPO-DA (GenX)	ND	0.014	0.0035	ug/l	
919005-14-4	ADONA	ND	0.014	0.0035	ug/l	
377-73-1	PFMPA	ND	0.0070	0.0018	ug/l	
863090-89-5	PFMBA	ND	0.0070	0.0020	ug/l	
151772-58-6	NFDHA	ND	0.0070	0.0021	ug/l	

PER and POLYFLUOROETHER SULFONIC ACIDS

756426-58-1	9Cl-PF3ONS (F-53B Major)	ND	0.014	0.0035	ug/l	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	ND	0.014	0.0035	ug/l	
113507-82-7	PFEESA	ND	0.0070	0.0018	ug/l	

FLUOROTELOMER CARBOXYLIC ACIDS

356-02-5	3:3 Fluorotelomer carboxylate	ND	0.018	0.0088	ug/l	
914637-49-3	5:3 Fluorotelomer carboxylate	ND	0.088	0.018	ug/l	
812-70-4	7:3 Fluorotelomer carboxylate	ND	0.088	0.018	ug/l	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFBA	86%		20-150%
	13C5-PFPeA	92%		20-150%
	13C5-PFHxA	87%		20-150%
	13C4-PFHpA	86%		20-150%
	13C8-PFOA	86%		20-150%
	13C9-PFNA	89%		20-150%
	13C6-PFDA	87%		20-150%
	13C7-PFUnDA	76%		20-150%
	13C2-PFDoDA	60%		20-150%
	13C2-PFTeDA	48%		20-150%
	13C3-PFBS	87%		20-150%
	13C3-PFHxS	86%		20-150%

ND = Not detected	MDL = Method Detection Limit	J = Indicates an estimated value
RL = Reporting Limit		B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range		N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: BLANK	
Lab Sample ID: DA60875-6	Date Sampled: 12/19/23
Matrix: AQ - Field Blank Water	Date Received: 12/21/23
Method: EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids: n/a
Project: PFAS Sampling	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C8-PFOS	81%		20-150%
	13C8-FOSA	54%		20-150%
	d3-MeFOSA	46%		20-150%
	d5-EtFOSA	47%		20-150%
	d3-MeFOSAA	71%		20-150%
	d5-EtFOSAA	60%		20-150%
	d7-MeFOSE	43%		20-150%
	d9-EtFOSE	40%		20-150%
	13C2-4:2FTS	92%		20-180%
	13C2-6:2FTS	78%		20-180%
	13C2-8:2FTS	84%		20-180%
	13C3-HFPO-DA	85%		20-150%

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected	MDL = Method Detection Limit	J = Indicates an estimated value
RL = Reporting Limit		B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range		N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody



CHAIN OF CUSTODY

SGS North America Inc. - Wheat Ridge
 4036 Youngfield Street, Wheat Ridge, CO 80033
 TEL: 303-425-6021 FAX: 303-425-6854
 www.sgs.com/ehsusa

Client / Reporting Information		Project Information		Requested Analysis (see TEST CODE sheet)												Matrix Codes				
Company: <i>Snowmass Water & Sewer</i>		Project Name: <i>PFA's Sampling</i>														DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL - Sludge SED - Sediment OI - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Wipe FB - Field Blank EB - Equipment Blank RB - Rinse Blank TB - Trip Blank				
Street: <i>0177 Clubhouse Dr / PO</i>		Billing Information (if different from Report to)																		
City, State, ZIP: <i>Snowmass Village, CO 81615</i>		Company:																		
Project Contact: <i>Chris Neral</i>		Project #:																		
Phone: <i>970-923-2056</i>		Client Purchase Order #:																		
Email: <i>cheral@swsd.co</i>		City, State ZIP:																		
Sampler(s) Name(s): <i>Don Rauer</i>		Project Manager: <i>Don Rauer</i>																		
Phone: <i>(970) 923-3776</i>		Attention:																		
Collection				Number of preserved Bottles												LAB USE ONLY				
Field ID / Point of Collection	Date	Time	Sampled By	Matrix	# of bottles	NONE	HCl	NHCl	HNO3	H2SO4	DI Water	MFON	ENCORE	INSTR03	INSTR03	INSTR03	LAB USE ONLY			
<i>EP-001 (Treated DW)</i>	<i>12-19-23</i>	<i>8:40a</i>	<i>DR</i>	<i>DW</i>	<i>4</i>												<i>01</i>			
<i>West Fork Brush Creek</i>	<i>12-19-23</i>	<i>8:30a</i>	<i>DR</i>	<i>Raw</i>	<i>4</i>												<i>02</i>			
<i>WTP Raw - Source #1</i>	<i>12-19-23</i>	<i>8:45a</i>	<i>DR</i>	<i>Raw</i>	<i>4</i>												<i>03</i>			
<i>SCPS - Source # 4 @ Zyle-</i>	<i>12-19-23</i>	<i>9:45a</i>	<i>DR</i>	<i>Raw</i>	<i>4</i>												<i>04</i>			
<i>SWSD WTP Effluent 003B</i>	<i>12-19-23</i>	<i>12:00pm</i>	<i>DR</i>	<i>WW treated</i>	<i>4</i>												<i>05</i>			
																<i>TB-06</i>				
Turnaround Time (Business days)				Data Deliverable Information												Comments / Special Instructions				
<input checked="" type="checkbox"/> Standard 10 Business Days <input type="checkbox"/> 5 Business Days RUSH <input type="checkbox"/> 3 Business Days RUSH <input type="checkbox"/> 2 Business Days RUSH <input type="checkbox"/> 1 Business Day EMERGENC*				Special Reporting Instructions <input type="checkbox"/> Report in PPB <input type="checkbox"/> Report in PPM <input type="checkbox"/> Report MDLs				<input type="checkbox"/> Commercial "A" (Level 1, Results Only) <input type="checkbox"/> Commercial "B" (Level 2, Results + QC Summary) <input type="checkbox"/> COMMBN (Results/QC/Narrative) <input type="checkbox"/> COMMBN+ (Results/QC/Narrative (+ chromatograms)) <input type="checkbox"/> REDT2 <input type="checkbox"/> FULT1 <input type="checkbox"/> EDD Format												<i>all samples collected as grab in 1000ml, then split into 250ml's</i>
Emergency & Rush T/A data available via LabLink. RUSH TAT approval needed.				Sample Custody must be documented below each time samples change possession, including courier delivery.												<i>UPS</i>				
Relinquished by Sampler: <i>1 Don Rauer</i>		Date/Time: <i>12-19-23 12:50pm</i>		Received By: <i>1</i>		Relinquished By: <i>2</i>		Date/Time: <i>12/21/23</i>		Received By: <i>2</i>		Date/Time: <i>12/25</i>		Received By: <i>4</i>						
Relinquished by Sampler: <i>3</i>		Date/Time:		Received By: <i>3</i>		Relinquished By: <i>4</i>		Date/Time:		Received By: <i>4</i>		Date/Time:		Received By: <i>4</i>						
Custody Seal # <input type="checkbox"/> Intact <input type="checkbox"/> Not Intact <input type="checkbox"/> Absent <input type="checkbox"/>				Preserved where applicable <input type="checkbox"/>				Cooler Temp. °C: <i>3.7</i>				Therm. ID: <i>1080</i>				On Ice <input checked="" type="checkbox"/>				
http://www.sgs.com/en/terms-and-conditions																				

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DA60875: Chain of Custody

Page 1 of 2

SGS Sample Receipt Summary

Job Number: da60875

Client: SNOWMASS WATER & SANITATION

Project: PFAS SAMPLING

Date / Time Received: 12/21/2023 12:25:00 PM

Delivery Method: UPS

Airbill #'s: _____

Cooler Temps (Raw Measured) °C: Cooler 1: (3.7);

Cooler Temps (Corrected) °C: Cooler 1: (3.7);

Cooler Information

Y or N

- 1. Custody Seals Present:
- 2. Custody Seals Intact:
- 3. Temp criteria achieved:
- 4. Cooler temp verification: IR Gun
- 5. Cooler media: Ice (Bag)

Trip Blank Information

Y or N N/A

- 1. Trip Blank present / cooler:
- 2. Trip Blank listed on COC:

W or S N/A

- 3. Type of TB Received

Sample Information

Y or N N/A

- 1. Sample labels present on bottles:
- 2. Samples presented properly
- 3. Sufficient volume/containers recv'd for analysis
- 4. Condition of sample: Intact
- 5. Sample recv'd within HT
- 6. Dates/Times/IDs on COC match sample label
- 7. VOCs have headspace
- 8. Bottles received for unspecified tests
- 9. Compositing instructions clear
- 10. Voa Soil Kits/Jars received past 48hrs?
- 11. % Solids Jar Received?
- 12. Residual Chlorine Present?

Misc Information

Number of Encores: 25 Gram 5 Gram

Number of Lab Filtered Metals: _____

Test Strip Lot #: pH 0-3: _____

pH 10-12: _____ Other: (Specify) _____

Residual Chlorine Test Strip Lot # _____

Comments

SM001

Rev. Date 05/04/17

Technician: JEREMYD

Date: 12/21/2023 3:24:55 PM

Reviewer: _____

Date: _____

DA60875: Chain of Custody

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Misc. Forms

Custody Documents and Other Forms

(SGS Orlando, FL)

Includes the following where applicable:

- Chain of Custody



CHAIN OF CUSTODY
SGS North America Inc. - Wheat Ridge
 4036 Youngfield Street, Wheat Ridge, CO 80033
 TEL: 303-425-6021 FAX: 303-425-6854
 www.sgs.com/ehsusa

FED-EX Tracking #		Bottle Order Control #	
SGS Quote #		SGS Job # DA60875	
Client / Reporting Information		Project Information	
Company Name: SGS North America Inc.		Project Name: PFAS Sampling	
Street Address: 4036 Youngfield Street		Street:	
City State Zip: Wheat Ridge, CO 80033		Billing Information (if different from Report to):	
Project Contact: E-mail: parna.eskandaripavandeh@sgs.com		Company Name:	
Phone #: 303-425-6021		Street Address:	
Sample(s) Name(s): DR		City State Zip:	
Phone:		Client Purchase Order #:	
Project Manager:		Attention:	
Turnaround Time (Business days):		Data Deliverable Information:	
<input type="checkbox"/> Standard 10 Day (business) <input type="checkbox"/> 5 Business Days RUSH <input type="checkbox"/> 3 Business Days RUSH <input type="checkbox"/> 2 Business Days RUSH <input type="checkbox"/> 1 Business Day EMERGENCY <input checked="" type="checkbox"/> other Due 1/8/2024		<input type="checkbox"/> Commercial "A" (Level 1) <input type="checkbox"/> State Forms <input type="checkbox"/> Commercial "B" (Level 2) <input type="checkbox"/> EDD Format <input type="checkbox"/> REDT1 (Level 3) <input type="checkbox"/> Other _____ <input type="checkbox"/> FULT1 (Level 4) <input type="checkbox"/> _____ <input type="checkbox"/> Commercial "C" <input checked="" type="checkbox"/> CC	
Approved By (SGS PM): / Date:		Comments / Special Instructions: INITIAL ASSESSMENT LABEL VERIFICATION ZB 4.0 18#C	
Sample Custody must be documented below each time samples change possession, including courier delivery.			
Relinquished by Sample: 1	Date Time: 12/12/23	Received By: 1	Date Time: 12/23/23 1100
Relinquished by Sample: 3	Date Time:	Received By: 3	Date Time:
Relinquished by Sample: 5	Date Time:	Received By: 5	Date Time:
Custody Seal #		<input type="checkbox"/> Intact Preserved where applicable On Ice Cooler Temp. <input type="checkbox"/> Not Intact Therm. ID:	

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SGS - Orlando Sample Receipt Summary

Job Number: da60875

Client: SGS CO

Project: PFAS SAMPLING

Date / Time Received: 12/23/2023 11:00:00 AM

Delivery Method: FEDEX

Airbill #'s: 646648958514

Cooler Temps (Raw Measured) °C: Cooler 1: (4.0);

Cooler Temps (Corrected) °C: Cooler 1: (4.4);

Cooler Information

Y or N

- 1. Custody Seals Present:
- 2. Custody Seals Intact:
- 3. Temp criteria achieved:
- 4. Cooler temp verification: IR Gun
- 5. Cooler media: Ice (Bag)

Trip Blank Information

Y or N N/A

- 1. Trip Blank present / cooler:
- 2. Trip Blank listed on COC:

W or S N/A

- 3. Type of TB Received

Sample Information

Y or N N/A

- 1. Sample labels present on bottles:
- 2. Samples presented properly:
- 3. Sufficient volume/containers recv'd for analysis:
- 4. Condition of sample: Intact
- 5. Sample recv'd within HT:
- 6. Dates/Times/IDs on COC match sample label:
- 7. VOCs have headspace:
- 8. Bottles received for unspecified tests:
- 9. Compositing instructions clear:
- 10. Voa Soil Kits/Jars received past 48hrs?:
- 11. % Solids Jar Received?:
- 12. Residual Chlorine Present?:

Misc Information

Number of Encores: 25 Gram 5 Gram

Number of Lab Filtered Metals:

Test Strip Lot #s: pH 0-3: 226422

pH 10-12: _____ Other: (Specify) pH 1.0 - 12.0 222221

Residual Chlorine Test Strip Lot # _____

Comments

Sample Receipt Summary 112723 EK Technician: ZANEB

Date: 12/23/2023 12:14:18 PM

Reviewer: _____ Date: _____

DA60875: Chain of Custody

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MS Semi-volatiles

QC Data Summaries

(SGS Orlando, FL)

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: DA60875
 Account: ALMS SGS Wheat Ridge, CO
 Project: SWSDCOSV: PFAS Sampling

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP930-MB	7Q1284.D	1	01/05/24	MV	01/02/24	OP930	S7Q21

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

DA60875-2, DA60875-3, DA60875-4, DA60875-5, DA60875-6

CAS No.	Compound	Result	RL	MDL	Units	Q
375-22-4	Perfluorobutanoic acid	ND	0.0080	0.0040	ug/l	
2706-90-3	Perfluoropentanoic acid	ND	0.0040	0.0010	ug/l	
307-24-4	Perfluorohexanoic acid	ND	0.0020	0.00050	ug/l	
375-85-9	Perfluoroheptanoic acid	ND	0.0020	0.00050	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0020	0.00050	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0020	0.00061	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0020	0.00050	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0020	0.00060	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0020	0.00060	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0020	0.00084	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0020	0.00050	ug/l	
375-73-5	Perfluorobutanesulfonic acid	ND	0.0020	0.0010	ug/l	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.0020	0.0011	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0020	0.0010	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0020	0.0010	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0020	0.0010	ug/l	
68259-12-1	Perfluorononanesulfonic acid	ND	0.0020	0.0010	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0020	0.0010	ug/l	
79780-39-5	Perfluorododecanesulfonic aci	ND	0.0020	0.0011	ug/l	
757124-72-44:2	Fluorotelomer sulfonate	ND	0.0080	0.0040	ug/l	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.0080	0.0040	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.0080	0.0041	ug/l	
754-91-6	PFOSA	ND	0.0020	0.0010	ug/l	
31506-32-8	MeFOSA	ND	0.0020	0.0010	ug/l	
4151-50-2	EtFOSA	ND	0.0020	0.0010	ug/l	
2355-31-9	MeFOSAA	ND	0.0020	0.0010	ug/l	
2991-50-6	EtFOSAA	ND	0.0020	0.0013	ug/l	
24448-09-7	MeFOSE	ND	0.020	0.010	ug/l	
1691-99-2	EtFOSE	ND	0.020	0.010	ug/l	
13252-13-6	HFPO-DA (GenX)	ND	0.0080	0.0020	ug/l	
919005-14-4	ADONA	ND	0.0080	0.0020	ug/l	
377-73-1	PFMPA	ND	0.0040	0.0010	ug/l	
863090-89-5	PFMBA	ND	0.0040	0.0011	ug/l	
151772-58-6	NFDHA	ND	0.0040	0.0012	ug/l	
756426-58-19	Cl-PF3ONS (F-53B Major)	ND	0.0080	0.0020	ug/l	
763051-92-91	Cl-PF3OUdS (F-53B Minor)	ND	0.0080	0.0020	ug/l	

Method Blank Summary

Job Number: DA60875
 Account: ALMS SGS Wheat Ridge, CO
 Project: SWSDCOSV: PFAS Sampling

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP930-MB	7Q1284.D	1	01/05/24	MV	01/02/24	OP930	S7Q21

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

DA60875-2, DA60875-3, DA60875-4, DA60875-5, DA60875-6

CAS No.	Compound	Result	RL	MDL	Units	Q
113507-82-7	PFEESA	ND	0.0040	0.0010	ug/l	
356-02-5	3:3 Fluorotelomer carboxylate	ND	0.010	0.0050	ug/l	
914637-49-35:3	Fluorotelomer carboxylate	ND	0.050	0.010	ug/l	
812-70-4	7:3 Fluorotelomer carboxylate	ND	0.050	0.010	ug/l	

CAS No.	ID Standard Recoveries	Limits
	13C4-PFBA	90% 20-150%
	13C5-PFPeA	96% 20-150%
	13C5-PFHxA	92% 20-150%
	13C4-PFHpA	89% 20-150%
	13C8-PFOA	89% 20-150%
	13C9-PFNA	92% 20-150%
	13C6-PFDA	98% 20-150%
	13C7-PFUnDA	90% 20-150%
	13C2-PFDoDA	86% 20-150%
	13C2-PFTeDA	69% 20-150%
	13C3-PFBS	93% 20-150%
	13C3-PFHxS	95% 20-150%
	13C8-PFOS	89% 20-150%
	13C8-FOSA	65% 20-150%
	d3-MeFOSA	48% 20-150%
	d5-EtFOSA	48% 20-150%
	d3-MeFOSAA	87% 20-150%
	d5-EtFOSAA	85% 20-150%
	d7-MeFOSE	52% 20-150%
	d9-EtFOSE	51% 20-150%
	13C2-4:2FTS	88% 20-180%
	13C2-6:2FTS	84% 20-180%
	13C2-8:2FTS	91% 20-180%
	13C3-HFPO-DA	91% 20-150%

Method Blank Summary

Job Number: DA60875
 Account: ALMS SGS Wheat Ridge, CO
 Project: SWSDCOSV: PFAS Sampling

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP927-MB	5Q24109.D	1	01/03/24	LR	01/02/24	OP927	S5Q378

The QC reported here applies to the following samples:

Method: EPA 537M BY ID

DA60875-6

CAS No.	Compound	Result	RL	MDL	Units	Q
375-22-4	Perfluorobutanoic acid	ND	0.0040	0.0020	ug/l	
2706-90-3	Perfluoropentanoic acid	ND	0.0020	0.0010	ug/l	
307-24-4	Perfluorohexanoic acid	ND	0.0020	0.0010	ug/l	
375-85-9	Perfluoroheptanoic acid	ND	0.0020	0.0010	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0020	0.0010	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0020	0.0010	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0020	0.0010	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0020	0.0010	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0020	0.0010	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0020	0.0010	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0020	0.0010	ug/l	
375-73-5	Perfluorobutanesulfonic acid	ND	0.0020	0.0010	ug/l	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.0020	0.0010	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0020	0.0010	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0020	0.0010	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0020	0.0010	ug/l	
68259-12-1	Perfluorononanesulfonic acid	ND	0.0020	0.0010	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0020	0.0010	ug/l	
754-91-6	PFOSA	ND	0.0040	0.0020	ug/l	
2355-31-9	MeFOSAA	ND	0.0040	0.0020	ug/l	
2991-50-6	EiFOSAA	ND	0.0040	0.0020	ug/l	
757124-72-44:2	Fluorotelomer sulfonate	ND	0.0080	0.0020	ug/l	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.0080	0.0020	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.0080	0.0020	ug/l	
13252-13-6	HFPO-DA (GenX)	ND	0.0040	0.0020	ug/l	

CAS No.	ID Standard Recoveries	Limits
	13C4-PFBA	11%* a 35-135%
	13C5-PFPeA	5%* a 50-150%
	13C5-PFHxA	2%* a 50-150%
	13C4-PFHpA	1%* a 50-150%
	13C8-PFOA	1%* a 50-150%
	13C9-PFNA	0%* a 50-150%
	13C6-PFDA	0%* a 50-150%

Method Blank Summary

Job Number: DA60875
 Account: ALMS SGS Wheat Ridge, CO
 Project: SWSDCOSV: PFAS Sampling

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP927-MB	5Q24109.D	1	01/03/24	LR	01/02/24	OP927	S5Q378

The QC reported here applies to the following samples:

Method: EPA 537M BY ID

DA60875-6

CAS No.	ID Standard Recoveries	Limits
	13C7-PFUnDA	0%* a 40-140%
	13C2-PFDoDA	0%* a 40-140%
	13C2-PFTeDA	0%* a 30-130%
	13C3-PFBS	1%* a 50-150%
	13C3-PFHxS	0%* a 50-150%
	13C8-PFOS	0%* a 50-150%
	13C8-FOSA	6%* a 30-130%
	d3-MeFOSAA	0%* a 40-140%
	d5-EtFOSAA	0%* a 40-140%
	13C2-4:2FTS	4%* a 50-150%
	13C2-6:2FTS	1%* a 50-150%
	13C2-8:2FTS	0%* a 50-150%
	13C3-HFPO-DA	2%* a 50-150%

(a) Outside control limits.

6.1.2
6

Method Blank Summary

Job Number: DA60875
 Account: ALMS SGS Wheat Ridge, CO
 Project: SWSDCOSV: PFAS Sampling

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP927-MB	5Q24218.D	1	01/05/24	LR	01/02/24	OP927	S5Q380

The QC reported here applies to the following samples:

Method: EPA 537M BY ID

DA60875-6

CAS No.	Compound	Result	RL	MDL	Units	Q
375-22-4	Perfluorobutanoic acid	ND	0.0040	0.0020	ug/l	
2706-90-3	Perfluoropentanoic acid	ND	0.0020	0.0010	ug/l	
307-24-4	Perfluorohexanoic acid	ND	0.0020	0.0010	ug/l	
375-85-9	Perfluoroheptanoic acid	ND	0.0020	0.0010	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0020	0.0010	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0020	0.0010	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0020	0.0010	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0020	0.0010	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0020	0.0010	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0020	0.0010	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0020	0.0010	ug/l	
375-73-5	Perfluorobutanesulfonic acid	ND	0.0020	0.0010	ug/l	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.0020	0.0010	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0020	0.0010	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0020	0.0010	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0020	0.0010	ug/l	
68259-12-1	Perfluorononanesulfonic acid	ND	0.0020	0.0010	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0020	0.0010	ug/l	
754-91-6	PFOSA	ND	0.0040	0.0020	ug/l	
2355-31-9	MeFOSAA	ND	0.0040	0.0020	ug/l	
2991-50-6	EiFOSAA	ND	0.0040	0.0020	ug/l	
757124-72-44:2	Fluorotelomer sulfonate	ND	0.0080	0.0020	ug/l	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.0080	0.0020	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.0080	0.0020	ug/l	
13252-13-6	HFPO-DA (GenX)	ND	0.0040	0.0020	ug/l	

CAS No.	ID Standard Recoveries	Limits
	13C4-PFBA	10%* a 35-135%
	13C5-PFPeA	4%* a 50-150%
	13C5-PFHxA	2%* a 50-150%
	13C4-PFHpA	1%* a 50-150%
	13C8-PFOA	0%* a 50-150%
	13C9-PFNA	0%* a 50-150%
	13C6-PFDA	0%* a 50-150%

Method Blank Summary

Job Number: DA60875
 Account: ALMS SGS Wheat Ridge, CO
 Project: SWSDCOSV: PFAS Sampling

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP927-MB	5Q24218.D	1	01/05/24	LR	01/02/24	OP927	S5Q380

The QC reported here applies to the following samples:

Method: EPA 537M BY ID

DA60875-6

CAS No.	ID Standard Recoveries	Limits
	13C7-PFUnDA	0%* a 40-140%
	13C2-PFDoDA	0%* a 40-140%
	13C2-PFTeDA	0%* a 30-130%
	13C3-PFBS	1%* a 50-150%
	13C3-PFHxS	0%* a 50-150%
	13C8-PFOS	0%* a 50-150%
	13C8-FOSA	3%* a 30-130%
	d3-MeFOSAA	0%* a 40-140%
	d5-EtFOSAA	0%* a 40-140%
	13C2-4:2FTS	3%* a 50-150%
	13C2-6:2FTS	0%* a 50-150%
	13C2-8:2FTS	0%* a 50-150%
	13C3-HFPO-DA	2%* a 50-150%

(a) Outside control limits.

6.1.3
6

Method Blank Summary

Job Number: DA60875
 Account: ALMS SGS Wheat Ridge, CO
 Project: SWSDCOSV: PFAS Sampling

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP1021-MB	2Q118675.D	1	01/09/24	LR	01/08/24	OP1021	S2Q1694

The QC reported here applies to the following samples:

Method: EPA 537M BY ID

DA60875-2, DA60875-3, DA60875-4, DA60875-5

CAS No.	Compound	Result	RL	MDL	Units	Q
375-22-4	Perfluorobutanoic acid	ND	0.0040	0.0020	ug/l	
2706-90-3	Perfluoropentanoic acid	ND	0.0020	0.0010	ug/l	
307-24-4	Perfluorohexanoic acid	ND	0.0020	0.0010	ug/l	
375-85-9	Perfluoroheptanoic acid	ND	0.0020	0.0010	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0020	0.0010	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0020	0.0010	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0020	0.0010	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0020	0.0010	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0020	0.0010	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0020	0.0010	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0020	0.0010	ug/l	
375-73-5	Perfluorobutanesulfonic acid	ND	0.0020	0.0010	ug/l	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.0020	0.0010	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0020	0.0010	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0020	0.0010	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0020	0.0010	ug/l	
68259-12-1	Perfluorononanesulfonic acid	ND	0.0020	0.0010	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0020	0.0010	ug/l	
754-91-6	PFOSA	ND	0.0040	0.0020	ug/l	
2355-31-9	MeFOSAA	ND	0.0040	0.0020	ug/l	
2991-50-6	EiFOSAA	ND	0.0040	0.0020	ug/l	
757124-72-44:2	Fluorotelomer sulfonate	ND	0.0080	0.0020	ug/l	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.0080	0.0020	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.0080	0.0020	ug/l	
13252-13-6	HFPO-DA (GenX)	ND	0.0040	0.0020	ug/l	

CAS No.	ID Standard Recoveries	Limits
	13C4-PFBA	103% 35-135%
	13C5-PFPeA	102% 50-150%
	13C5-PFHxA	99% 50-150%
	13C4-PFHpA	99% 50-150%
	13C8-PFOA	102% 50-150%
	13C9-PFNA	97% 50-150%
	13C6-PFDA	91% 50-150%

Method Blank Summary

Job Number: DA60875
Account: ALMS SGS Wheat Ridge, CO
Project: SWSDCOSV: PFAS Sampling

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP1021-MB	2Q118675.D	1	01/09/24	LR	01/08/24	OP1021	S2Q1694

The QC reported here applies to the following samples:

Method: EPA 537M BY ID

DA60875-2, DA60875-3, DA60875-4, DA60875-5

CAS No.	ID Standard Recoveries	Limits
	13C7-PFUnDA	81% 40-140%
	13C2-PFDoDA	74% 40-140%
	13C2-PFTeDA	61% 30-130%
	13C3-PFBS	102% 50-150%
	13C3-PFHxS	94% 50-150%
	13C8-PFOS	88% 50-150%
	13C8-FOSA	66% 30-130%
	d3-MeFOSAA	85% 40-140%
	d5-EtFOSAA	81% 40-140%
	13C2-4:2FTS	95% 50-150%
	13C2-6:2FTS	94% 50-150%
	13C2-8:2FTS	92% 50-150%
	13C3-HFPO-DA	97% 50-150%

6.1.4
6

Instrument Blank

Job Number: DA60875
Account: ALMS SGS Wheat Ridge, CO
Project: SWSDCOSV: PFAS Sampling

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
S7Q21-IBLK	7Q1253.D	1	01/05/24	MV	n/a	n/a	S7Q21

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

DA60875-2, DA60875-3, DA60875-4, DA60875-5, DA60875-6

CAS No.	Compound	Result	RL	MDL	Units	Q
375-22-4	Perfluorobutanoic acid	ND	0.016	0.0019	ug/l	
2706-90-3	Perfluoropentanoic acid	ND	0.0080	0.00094	ug/l	
307-24-4	Perfluorohexanoic acid	ND	0.0040	0.00050	ug/l	
375-85-9	Perfluoroheptanoic acid	ND	0.0040	0.00050	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0040	0.00050	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0040	0.00061	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0040	0.00050	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0040	0.00060	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0040	0.00060	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0040	0.00084	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0040	0.00050	ug/l	
375-73-5	Perfluorobutanesulfonic acid	ND	0.0040	0.00050	ug/l	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.0050	0.0011	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0040	0.00070	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0040	0.00050	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0040	0.00054	ug/l	
68259-12-1	Perfluorononanesulfonic acid	ND	0.0040	0.00057	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0040	0.00064	ug/l	
79780-39-5	Perfluorododecanesulfonic acid	ND	0.0050	0.0011	ug/l	
757124-72-44:2	Fluorotelomer sulfonate	ND	0.020	0.0032	ug/l	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.020	0.0035	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.020	0.0041	ug/l	
754-91-6	PFOSA	ND	0.0040	0.00067	ug/l	
31506-32-8	MeFOSA	ND	0.0080	0.0010	ug/l	
4151-50-2	EtFOSA	ND	0.0080	0.0010	ug/l	
2355-31-9	MeFOSAA	ND	0.0050	0.0010	ug/l	
2991-50-6	EtFOSAA	ND	0.0050	0.0013	ug/l	
24448-09-7	MeFOSE	ND	0.040	0.0044	ug/l	
1691-99-2	EtFOSE	ND	0.040	0.0074	ug/l	
13252-13-6	HFPO-DA (GenX)	ND	0.0040	0.0010	ug/l	
919005-14-4	ADONA	ND	0.0080	0.0019	ug/l	
377-73-1	PFMPA	ND	0.0080	0.0010	ug/l	
863090-89-5	PFMBA	ND	0.0080	0.0011	ug/l	
151772-58-6	NFDHA	ND	0.0080	0.0012	ug/l	
756426-58-19	Cl-PF3ONS (F-53B Major)	ND	0.0080	0.0014	ug/l	
763051-92-91	Cl-PF3OUdS (F-53B Minor)	ND	0.0080	0.0018	ug/l	

Instrument Blank

Job Number: DA60875
 Account: ALMS SGS Wheat Ridge, CO
 Project: SWSDCOSV: PFAS Sampling

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
S7Q21-IBLK	7Q1253.D	1	01/05/24	MV	n/a	n/a	S7Q21

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

DA60875-2, DA60875-3, DA60875-4, DA60875-5, DA60875-6

CAS No.	Compound	Result	RL	MDL	Units	Q
113507-82-7	PFEESA	ND	0.0080	0.00078	ug/l	
356-02-5	3:3 Fluorotelomer carboxylate	ND	0.020	0.0045	ug/l	
914637-49-35:3	Fluorotelomer carboxylate	ND	0.10	0.0087	ug/l	
812-70-4	7:3 Fluorotelomer carboxylate	ND	0.10	0.0079	ug/l	

CAS No.	ID Standard Recoveries	Limits
	13C4-PFBA	99% 20-150%
	13C5-PFPeA	110% 20-150%
	13C5-PFHxA	104% 20-150%
	13C4-PFHpA	102% 20-150%
	13C8-PFOA	100% 20-150%
	13C9-PFNA	102% 20-150%
	13C6-PFDA	99% 20-150%
	13C7-PFUnDA	96% 20-150%
	13C2-PFDoDA	97% 20-150%
	13C2-PFTeDA	95% 20-150%
	13C3-PFBS	98% 20-150%
	13C3-PFHxS	98% 20-150%
	13C8-PFOS	99% 20-150%
	13C8-FOSA	93% 20-150%
	d3-MeFOSAA	94% 20-150%
	d5-EtFOSAA	89% 20-150%
	13C2-4:2FTS	91% 20-180%
	13C2-6:2FTS	118% 20-180%
	13C2-8:2FTS	111% 20-180%

Continuing Calibration Blank

Job Number: DA60875
 Account: ALMS SGS Wheat Ridge, CO
 Project: SWSDCOSV: PFAS Sampling

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
S7Q21-ICCB	7Q1279.D	1	01/05/24	MV	n/a	n/a	S7Q21

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

DA60875-2, DA60875-3

CAS No.	Compound	Result	RL	MDL	Units	Q
375-22-4	Perfluorobutanoic acid	ND	0.016	0.0019	ug/l	
2706-90-3	Perfluoropentanoic acid	ND	0.0080	0.00094	ug/l	
307-24-4	Perfluorohexanoic acid	ND	0.0040	0.00050	ug/l	
375-85-9	Perfluoroheptanoic acid	ND	0.0040	0.00050	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0040	0.00050	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0040	0.00061	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0040	0.00050	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0040	0.00060	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0040	0.00060	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0040	0.00084	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0040	0.00050	ug/l	
375-73-5	Perfluorobutanesulfonic acid	ND	0.0040	0.00050	ug/l	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.0050	0.0011	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0040	0.00070	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0040	0.00050	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0040	0.00054	ug/l	
68259-12-1	Perfluorononanesulfonic acid	ND	0.0040	0.00057	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0040	0.00064	ug/l	
79780-39-5	Perfluorododecanesulfonic aci	ND	0.0050	0.0011	ug/l	
757124-72-44:2	Fluorotelomer sulfonate	ND	0.020	0.0032	ug/l	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.020	0.0035	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.020	0.0041	ug/l	
754-91-6	PFOSA	ND	0.0040	0.00067	ug/l	
31506-32-8	MeFOSA	ND	0.0080	0.0010	ug/l	
4151-50-2	EtFOSA	ND	0.0080	0.0010	ug/l	
2355-31-9	MeFOSAA	ND	0.0050	0.0010	ug/l	
2991-50-6	EtFOSAA	ND	0.0050	0.0013	ug/l	
24448-09-7	MeFOSE	ND	0.040	0.0044	ug/l	
1691-99-2	EtFOSE	ND	0.040	0.0074	ug/l	
13252-13-6	HFPO-DA (GenX)	ND	0.0040	0.0010	ug/l	
919005-14-4	ADONA	ND	0.0080	0.0019	ug/l	
377-73-1	PFMPA	ND	0.0080	0.0010	ug/l	
863090-89-5	PFMBA	ND	0.0080	0.0011	ug/l	
151772-58-6	NFDHA	ND	0.0080	0.0012	ug/l	
756426-58-19	Cl-PF3ONS (F-53B Major)	ND	0.0080	0.0014	ug/l	
763051-92-91	Cl-PF3OUdS (F-53B Minor)	ND	0.0080	0.0018	ug/l	

Continuing Calibration Blank

Job Number: DA60875
 Account: ALMS SGS Wheat Ridge, CO
 Project: SWSDCOSV: PFAS Sampling

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
S7Q21-ICCB	7Q1279.D	1	01/05/24	MV	n/a	n/a	S7Q21

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

DA60875-2, DA60875-3

CAS No.	Compound	Result	RL	MDL	Units	Q
113507-82-7	PFEESA	ND	0.0080	0.00078	ug/l	
356-02-5	3:3 Fluorotelomer carboxylate	ND	0.020	0.0045	ug/l	
914637-49-35:3	Fluorotelomer carboxylate	ND	0.10	0.0087	ug/l	
812-70-4	7:3 Fluorotelomer carboxylate	ND	0.10	0.0079	ug/l	

CAS No.	ID Standard Recoveries	Limits
	13C4-PFBA	98% 20-150%
	13C5-PFPeA	109% 20-150%
	13C5-PFHxA	103% 20-150%
	13C4-PFHpA	102% 20-150%
	13C8-PFOA	98% 20-150%
	13C9-PFNA	104% 20-150%
	13C6-PFDA	102% 20-150%
	13C7-PFUnDA	94% 20-150%
	13C2-PFDoDA	100% 20-150%
	13C2-PFTeDA	90% 20-150%
	13C3-PFBS	108% 20-150%
	13C3-PFHxS	108% 20-150%
	13C8-PFOS	96% 20-150%
	13C8-FOSA	94% 20-150%
	d3-MeFOSAA	88% 20-150%
	d5-EtFOSAA	91% 20-150%
	13C2-4:2FTS	107% 20-180%
	13C2-6:2FTS	116% 20-180%
	13C2-8:2FTS	94% 20-180%

Continuing Calibration Blank

Job Number: DA60875
 Account: ALMS SGS Wheat Ridge, CO
 Project: SWSDCOSV: PFAS Sampling

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
S7Q21-ICCB	7Q1291.D	1	01/05/24	MV	n/a	n/a	S7Q21

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

DA60875-4, DA60875-5, DA60875-6

CAS No.	Compound	Result	RL	MDL	Units	Q
375-22-4	Perfluorobutanoic acid	ND	0.016	0.0019	ug/l	
2706-90-3	Perfluoropentanoic acid	ND	0.0080	0.00094	ug/l	
307-24-4	Perfluorohexanoic acid	ND	0.0040	0.00050	ug/l	
375-85-9	Perfluoroheptanoic acid	ND	0.0040	0.00050	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0040	0.00050	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0040	0.00061	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0040	0.00050	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0040	0.00060	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0040	0.00060	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0040	0.00084	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0040	0.00050	ug/l	
375-73-5	Perfluorobutanesulfonic acid	ND	0.0040	0.00050	ug/l	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.0050	0.0011	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0040	0.00070	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0040	0.00050	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0040	0.00054	ug/l	
68259-12-1	Perfluorononanesulfonic acid	ND	0.0040	0.00057	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0040	0.00064	ug/l	
79780-39-5	Perfluorododecanesulfonic aci	ND	0.0050	0.0011	ug/l	
757124-72-44:2	Fluorotelomer sulfonate	ND	0.020	0.0032	ug/l	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.020	0.0035	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.020	0.0041	ug/l	
754-91-6	PFOSA	ND	0.0040	0.00067	ug/l	
31506-32-8	MeFOSA	ND	0.0080	0.0010	ug/l	
4151-50-2	EtFOSA	ND	0.0080	0.0010	ug/l	
2355-31-9	MeFOSAA	ND	0.0050	0.0010	ug/l	
2991-50-6	EtFOSAA	ND	0.0050	0.0013	ug/l	
24448-09-7	MeFOSE	ND	0.040	0.0044	ug/l	
1691-99-2	EtFOSE	ND	0.040	0.0074	ug/l	
13252-13-6	HFPO-DA (GenX)	ND	0.0040	0.0010	ug/l	
919005-14-4	ADONA	ND	0.0080	0.0019	ug/l	
377-73-1	PFMPA	ND	0.0080	0.0010	ug/l	
863090-89-5	PFMBA	ND	0.0080	0.0011	ug/l	
151772-58-6	NFDHA	ND	0.0080	0.0012	ug/l	
756426-58-19	Cl-PF3ONS (F-53B Major)	ND	0.0080	0.0014	ug/l	
763051-92-91	Cl-PF3OUdS (F-53B Minor)	ND	0.0080	0.0018	ug/l	

Continuing Calibration Blank

Job Number: DA60875
 Account: ALMS SGS Wheat Ridge, CO
 Project: SWSDCOSV: PFAS Sampling

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
S7Q21-ICCB	7Q1291.D	1	01/05/24	MV	n/a	n/a	S7Q21

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

DA60875-4, DA60875-5, DA60875-6

CAS No.	Compound	Result	RL	MDL	Units	Q
113507-82-7	PFEESA	ND	0.0080	0.00078	ug/l	
356-02-5	3:3 Fluorotelomer carboxylate	ND	0.020	0.0045	ug/l	
914637-49-35:3	Fluorotelomer carboxylate	ND	0.10	0.0087	ug/l	
812-70-4	7:3 Fluorotelomer carboxylate	ND	0.10	0.0079	ug/l	

CAS No.	ID Standard Recoveries	Limits
	13C4-PFBA	98% 20-150%
	13C5-PFPeA	109% 20-150%
	13C5-PFHxA	101% 20-150%
	13C4-PFHpA	104% 20-150%
	13C8-PFOA	99% 20-150%
	13C9-PFNA	103% 20-150%
	13C6-PFDA	103% 20-150%
	13C7-PFUnDA	99% 20-150%
	13C2-PFDoDA	101% 20-150%
	13C2-PFTeDA	92% 20-150%
	13C3-PFBS	99% 20-150%
	13C3-PFHxS	101% 20-150%
	13C8-PFOS	101% 20-150%
	13C8-FOSA	102% 20-150%
	d3-MeFOSAA	102% 20-150%
	d5-EtFOSAA	98% 20-150%
	13C2-4:2FTS	93% 20-180%
	13C2-6:2FTS	85% 20-180%
	13C2-8:2FTS	86% 20-180%

Continuing Calibration Blank

Job Number: DA60875
 Account: ALMS SGS Wheat Ridge, CO
 Project: SWSDCOSV: PFAS Sampling

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
S7Q21-ICCB	7Q1297.D	1	01/05/24	MV	n/a	n/a	S7Q21

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

DA60875-4, DA60875-5, DA60875-6

CAS No.	Compound	Result	RL	MDL	Units	Q
375-22-4	Perfluorobutanoic acid	ND	0.016	0.0019	ug/l	
2706-90-3	Perfluoropentanoic acid	ND	0.0080	0.00094	ug/l	
307-24-4	Perfluorohexanoic acid	ND	0.0040	0.00050	ug/l	
375-85-9	Perfluoroheptanoic acid	ND	0.0040	0.00050	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0040	0.00050	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0040	0.00061	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0040	0.00050	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0040	0.00060	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0040	0.00060	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0040	0.00084	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0040	0.00050	ug/l	
375-73-5	Perfluorobutanesulfonic acid	ND	0.0040	0.00050	ug/l	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.0050	0.0011	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0040	0.00070	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0040	0.00050	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0040	0.00054	ug/l	
68259-12-1	Perfluorononanesulfonic acid	ND	0.0040	0.00057	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0040	0.00064	ug/l	
79780-39-5	Perfluorododecanesulfonic aci	ND	0.0050	0.0011	ug/l	
757124-72-44:2	Fluorotelomer sulfonate	ND	0.020	0.0032	ug/l	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.020	0.0035	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.020	0.0041	ug/l	
754-91-6	PFOSA	ND	0.0040	0.00067	ug/l	
31506-32-8	MeFOSA	ND	0.0080	0.0010	ug/l	
4151-50-2	EtFOSA	ND	0.0080	0.0010	ug/l	
2355-31-9	MeFOSAA	ND	0.0050	0.0010	ug/l	
2991-50-6	EtFOSAA	ND	0.0050	0.0013	ug/l	
24448-09-7	MeFOSE	ND	0.040	0.0044	ug/l	
1691-99-2	EtFOSE	ND	0.040	0.0074	ug/l	
13252-13-6	HFPO-DA (GenX)	ND	0.0040	0.0010	ug/l	
919005-14-4	ADONA	ND	0.0080	0.0019	ug/l	
377-73-1	PFMPA	ND	0.0080	0.0010	ug/l	
863090-89-5	PFMBA	ND	0.0080	0.0011	ug/l	
151772-58-6	NFDHA	ND	0.0080	0.0012	ug/l	
756426-58-19	Cl-PF3ONS (F-53B Major)	ND	0.0080	0.0014	ug/l	
763051-92-91	Cl-PF3OUdS (F-53B Minor)	ND	0.0080	0.0018	ug/l	

Continuing Calibration Blank

Job Number: DA60875
 Account: ALMS SGS Wheat Ridge, CO
 Project: SWSDCOSV: PFAS Sampling

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
S7Q21-ICCB	7Q1297.D	1	01/05/24	MV	n/a	n/a	S7Q21

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

DA60875-4, DA60875-5, DA60875-6

CAS No.	Compound	Result	RL	MDL	Units	Q
113507-82-7	PFEESA	ND	0.0080	0.00078	ug/l	
356-02-5	3:3 Fluorotelomer carboxylate	ND	0.020	0.0045	ug/l	
914637-49-35:3	Fluorotelomer carboxylate	ND	0.10	0.0087	ug/l	
812-70-4	7:3 Fluorotelomer carboxylate	ND	0.10	0.0079	ug/l	

CAS No.	ID Standard Recoveries	Limits
	13C4-PFBA	98% 20-150%
	13C5-PFPeA	107% 20-150%
	13C5-PFHxA	102% 20-150%
	13C4-PFHpA	98% 20-150%
	13C8-PFOA	98% 20-150%
	13C9-PFNA	103% 20-150%
	13C6-PFDA	100% 20-150%
	13C7-PFUnDA	94% 20-150%
	13C2-PFDoDA	96% 20-150%
	13C2-PFTeDA	93% 20-150%
	13C3-PFBS	102% 20-150%
	13C3-PFHxS	105% 20-150%
	13C8-PFOS	103% 20-150%
	13C8-FOSA	98% 20-150%
	d3-MeFOSAA	92% 20-150%
	d5-EtFOSAA	89% 20-150%
	13C2-4:2FTS	98% 20-180%
	13C2-6:2FTS	97% 20-180%
	13C2-8:2FTS	93% 20-180%

6.18

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Instrument Blank

Job Number: DA60875
 Account: ALMS SGS Wheat Ridge, CO
 Project: SWSDCOSV: PFAS Sampling

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
S5Q378-IBLK	5Q24086.D	1	01/03/24	LR	n/a	n/a	S5Q378

The QC reported here applies to the following samples:

Method: EPA 537M QSM5.3 B-15

DA60875-6

CAS No.	Compound	Result	RL	MDL	Units	Q
375-22-4	Perfluorobutanoic acid	ND	0.0080	0.0020	ug/l	
754-91-6	PFOSA	ND	0.0040	0.0010	ug/l	

CAS No.	ID Standard Recoveries	Limits
	13C4-PFBA	76% 50-150%
	13C5-PFPeA	77% 50-150%
	13C5-PFHxA	80% 50-150%
	13C4-PFHpA	82% 50-150%
	13C8-PFOA	82% 50-150%
	13C9-PFNA	82% 50-150%
	13C6-PFDA	82% 50-150%
	13C7-PFUnDA	79% 50-150%
	13C2-PFDoDA	78% 50-150%
	13C2-PFTeDA	79% 50-150%
	13C3-PFBS	77% 50-150%
	13C3-PFHxS	80% 50-150%
	13C8-PFOS	85% 50-150%
	13C8-FOSA	92% 50-150%
	d3-MeFOSAA	86% 50-150%
	d5-EtFOSAA	85% 50-150%
	13C2-4:2FTS	76% 50-150%
	13C2-6:2FTS	74% 50-150%
	13C2-8:2FTS	77% 50-150%

6.1.9

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Instrument Blank

Job Number: DA60875
 Account: ALMS SGS Wheat Ridge, CO
 Project: SWSDCOSV: PFAS Sampling

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
S5Q380-IBLK	5Q24197.D	1	01/05/24	LR	n/a	n/a	S5Q380

The QC reported here applies to the following samples:

Method: EPA 537M QSM5.3 B-15

DA60875-6

CAS No.	Compound	Result	RL	MDL	Units	Q
2706-90-3	Perfluoropentanoic acid	ND	0.0040	0.0010	ug/l	
307-24-4	Perfluorohexanoic acid	ND	0.0040	0.0010	ug/l	
375-85-9	Perfluoroheptanoic acid	ND	0.0040	0.0010	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0040	0.0010	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0040	0.0010	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0040	0.0010	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0040	0.0010	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0040	0.0010	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0040	0.0010	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0040	0.0010	ug/l	
375-73-5	Perfluorobutanesulfonic acid	ND	0.0040	0.0010	ug/l	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.0040	0.0010	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0040	0.0010	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0040	0.0010	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0040	0.0010	ug/l	
68259-12-1	Perfluorononanesulfonic acid	ND	0.0040	0.0010	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0040	0.0010	ug/l	
2355-31-9	MeFOSAA	ND	0.0080	0.0020	ug/l	
2991-50-6	EtFOSAA	0.0023	0.0080	0.0020	ug/l	J
757124-72-44:2	Fluorotelomer sulfonate	ND	0.0080	0.0020	ug/l	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.0080	0.0020	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.0080	0.0020	ug/l	
13252-13-6	HFPO-DA (GenX)	ND	0.0080	0.0020	ug/l	

CAS No.	ID Standard Recoveries	Limits
	13C4-PFBA	111% 50-150%
	13C5-PFPeA	110% 50-150%
	13C5-PFHxA	107% 50-150%
	13C4-PFHpA	109% 50-150%
	13C8-PFOA	109% 50-150%
	13C9-PFNA	112% 50-150%
	13C6-PFDA	108% 50-150%
	13C7-PFUnDA	103% 50-150%
	13C2-PFDoDA	103% 50-150%

Instrument Blank

Job Number: DA60875
Account: ALMS SGS Wheat Ridge, CO
Project: SWSDCOSV: PFAS Sampling

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
S5Q380-IBLK	5Q24197.D	1	01/05/24	LR	n/a	n/a	S5Q380

The QC reported here applies to the following samples:

Method: EPA 537M QSM5.3 B-15

DA60875-6

CAS No.	ID Standard Recoveries	Limits
	13C2-PFTeDA	103% 50-150%
	13C3-PFBS	106% 50-150%
	13C3-PFHxS	109% 50-150%
	13C8-PFOS	106% 50-150%
	13C8-FOSA	123% 50-150%
	d3-MeFOSAA	122% 50-150%
	d5-EtFOSAA	118% 50-150%
	13C2-4:2FTS	99% 50-150%
	13C2-6:2FTS	98% 50-150%
	13C2-8:2FTS	103% 50-150%

6.1.10

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Instrument Blank

Job Number: DA60875
 Account: ALMS SGS Wheat Ridge, CO
 Project: SWSDCOSV: PFAS Sampling

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
S2Q1694-IBLK	2Q118668.D	1	01/09/24	LR	n/a	n/a	S2Q1694

The QC reported here applies to the following samples:

Method: EPA 537M QSM5.3 B-15

DA60875-2, DA60875-3, DA60875-4, DA60875-5

CAS No.	Compound	Result	RL	MDL	Units	Q
375-22-4	Perfluorobutanoic acid	ND	0.0080	0.0020	ug/l	
2706-90-3	Perfluoropentanoic acid	ND	0.0040	0.0010	ug/l	
307-24-4	Perfluorohexanoic acid	ND	0.0040	0.0010	ug/l	
375-85-9	Perfluoroheptanoic acid	ND	0.0040	0.0010	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0040	0.0010	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0040	0.0010	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0040	0.0010	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0040	0.0010	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0040	0.0010	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0040	0.0010	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0040	0.0010	ug/l	
375-73-5	Perfluorobutanesulfonic acid	ND	0.0040	0.0010	ug/l	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.0040	0.0010	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0040	0.0010	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0040	0.0010	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0040	0.0010	ug/l	
68259-12-1	Perfluorononanesulfonic acid	ND	0.0040	0.0010	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0040	0.0010	ug/l	
754-91-6	PFOSA	ND	0.0040	0.0010	ug/l	
2355-31-9	MeFOSAA	ND	0.0080	0.0020	ug/l	
2991-50-6	EiFOSAA	ND	0.0080	0.0020	ug/l	
757124-72-44:2	Fluorotelomer sulfonate	ND	0.0080	0.0020	ug/l	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.0080	0.0020	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.0080	0.0020	ug/l	
13252-13-6	HFPO-DA (GenX)	ND	0.0080	0.0020	ug/l	

CAS No.	ID Standard Recoveries	Limits
	13C4-PFBA	94% 50-150%
	13C5-PFPeA	94% 50-150%
	13C5-PFHxA	95% 50-150%
	13C4-PFHpA	95% 50-150%
	13C8-PFOA	97% 50-150%
	13C9-PFNA	98% 50-150%
	13C6-PFDA	98% 50-150%

Instrument Blank

Job Number: DA60875
Account: ALMS SGS Wheat Ridge, CO
Project: SWSDCOSV: PFAS Sampling

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
S2Q1694-IBLK	2Q118668.D	1	01/09/24	LR	n/a	n/a	S2Q1694

The QC reported here applies to the following samples:

Method: EPA 537M QSM5.3 B-15

DA60875-2, DA60875-3, DA60875-4, DA60875-5

CAS No.	ID Standard Recoveries	Limits
	13C7-PFUnDA	100% 50-150%
	13C2-PFDoDA	97% 50-150%
	13C2-PFTeDA	98% 50-150%
	13C3-PFBS	96% 50-150%
	13C3-PFHxS	96% 50-150%
	13C8-PFOS	95% 50-150%
	13C8-FOSA	103% 50-150%
	d3-MeFOSAA	100% 50-150%
	d5-EtFOSAA	101% 50-150%
	13C2-4:2FTS	86% 50-150%
	13C2-6:2FTS	86% 50-150%
	13C2-8:2FTS	92% 50-150%

6.1.11
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Instrument Blank

Job Number: DA60875
 Account: ALMS SGS Wheat Ridge, CO
 Project: SWSDCOSV: PFAS Sampling

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
S2Q1695-IBLK	2Q118738.D	1	01/10/24	JL	n/a	n/a	S2Q1695

The QC reported here applies to the following samples:

Method: EPA 537M QSM5.3 B-15

DA60875-2

CAS No.	Compound	Result	RL	MDL	Units	Q
2058-94-8	Perfluoroundecanoic acid	ND	0.0040	0.0010	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0040	0.0010	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0040	0.0010	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0040	0.0010	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0040	0.0010	ug/l	
754-91-6	PFOSA	ND	0.0040	0.0010	ug/l	
2355-31-9	MeFOSAA	ND	0.0080	0.0020	ug/l	
2991-50-6	EtFOSAA	ND	0.0080	0.0020	ug/l	

CAS No.	ID Standard Recoveries	Limits
	13C4-PFBA	89% 50-150%
	13C5-PFPeA	90% 50-150%
	13C5-PFHxA	91% 50-150%
	13C4-PFHpA	91% 50-150%
	13C8-PFOA	92% 50-150%
	13C9-PFNA	90% 50-150%
	13C6-PFDA	91% 50-150%
	13C7-PFUnDA	90% 50-150%
	13C2-PFDoDA	89% 50-150%
	13C2-PFTeDA	88% 50-150%
	13C3-PFBS	88% 50-150%
	13C3-PFHxS	88% 50-150%
	13C8-PFOS	86% 50-150%
	13C8-FOSA	93% 50-150%
	d3-MeFOSAA	90% 50-150%
	d5-EtFOSAA	89% 50-150%
	13C2-4:2FTS	82% 50-150%
	13C2-6:2FTS	83% 50-150%
	13C2-8:2FTS	81% 50-150%

6.1.12

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Blank Spike Summary

Job Number: DA60875
 Account: ALMS SGS Wheat Ridge, CO
 Project: SWSDCOSV: PFAS Sampling

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP930-LLBS	7Q1283.D	1	01/05/24	MV	01/02/24	OP930	S7Q21

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

DA60875-2, DA60875-3, DA60875-4, DA60875-5, DA60875-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
375-22-4	Perfluorobutanoic acid	0.016	0.0180	113	40-150
2706-90-3	Perfluoropentanoic acid	0.008	0.0072	90	40-150
307-24-4	Perfluorohexanoic acid	0.004	0.0037	93	40-150
375-85-9	Perfluoroheptanoic acid	0.004	0.0042	105	40-150
335-67-1	Perfluorooctanoic acid	0.004	0.0040	100	40-150
375-95-1	Perfluorononanoic acid	0.004	0.0038	95	40-150
335-76-2	Perfluorodecanoic acid	0.004	0.0038	95	40-150
2058-94-8	Perfluoroundecanoic acid	0.004	0.0041	103	40-150
307-55-1	Perfluorododecanoic acid	0.004	0.0043	108	40-150
72629-94-8	Perfluorotridecanoic acid	0.004	0.0035	88	40-150
376-06-7	Perfluorotetradecanoic acid	0.004	0.0045	113	40-150
375-73-5	Perfluorobutanesulfonic acid	0.00355	0.0036	101	40-150
2706-91-4	Perfluoropentanesulfonic acid	0.00376	0.0042	112	40-150
355-46-4	Perfluorohexanesulfonic acid	0.00366	0.0036	98	40-150
375-92-8	Perfluoroheptanesulfonic acid	0.00381	0.0039	102	40-150
1763-23-1	Perfluorooctanesulfonic acid	0.00371	0.0041	110	40-150
68259-12-1	Perfluorononanesulfonic acid	0.00385	0.0039	101	40-150
335-77-3	Perfluorodecanesulfonic acid	0.00386	0.0036	93	40-150
79780-39-5	Perfluorododecanesulfonic aci	0.00388	0.0031	80	40-150
757124-72-44:2	Fluorotelomer sulfonate	0.015	0.0169	113	40-150
27619-97-2	6:2 Fluorotelomer sulfonate	0.0152	0.0194	128	40-150
39108-34-4	8:2 Fluorotelomer sulfonate	0.0154	0.0162	105	40-150
754-91-6	PFOSA	0.004	0.0044	110	40-150
31506-32-8	MeFOSA	0.008	0.0094	118	40-150
4151-50-2	EtFOSA	0.008	0.0105	131	40-150
2355-31-9	MeFOSAA	0.004	0.0044	110	40-150
2991-50-6	EtFOSAA	0.004	0.0037	93	40-150
24448-09-7	MeFOSE	0.02	0.0211	106	40-150
1691-99-2	EtFOSE	0.02	0.0213	107	40-150
13252-13-6	HFPO-DA (GenX)	0.008	0.0093	116	40-150
919005-14-4	ADONA	0.00756	0.0094	124	40-150
377-73-1	PFMPA	0.008	0.0082	103	40-150
863090-89-5	PFMBA	0.008	0.0078	98	40-150
151772-58-6	NFDHA	0.008	0.0075	94	40-150
756426-58-19	Cl-PF3ONS (F-53B Major)	0.00748	0.0093	124	40-150
763051-92-91	Cl-PF3OUdS (F-53B Minor)	0.00756	0.0076	101	40-150

* = Outside of Control Limits.

Blank Spike Summary

Job Number: DA60875
 Account: ALMS SGS Wheat Ridge, CO
 Project: SWSDCOSV: PFAS Sampling

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP930-LLBS	7Q1283.D	1	01/05/24	MV	01/02/24	OP930	S7Q21

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

DA60875-2, DA60875-3, DA60875-4, DA60875-5, DA60875-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
113507-82-7	PFEESA	0.00712	0.0077	108	40-150
356-02-5	3:3 Fluorotelomer carboxylate	0.02	0.0195	98	40-150
914637-49-35:3	Fluorotelomer carboxylate	0.1	0.106	106	40-150
812-70-4	7:3 Fluorotelomer carboxylate	0.1	0.107	107	40-150

CAS No.	ID Standard Recoveries	BSP	Limits
	13C4-PFBA	91%	20-150%
	13C5-PFPeA	96%	20-150%
	13C5-PFHxA	92%	20-150%
	13C4-PFHpA	88%	20-150%
	13C8-PFOA	91%	20-150%
	13C9-PFNA	97%	20-150%
	13C6-PFDA	94%	20-150%
	13C7-PFUnDA	86%	20-150%
	13C2-PFDoDA	83%	20-150%
	13C2-PFTeDA	61%	20-150%
	13C3-PFBS	99%	20-150%
	13C3-PFHxS	94%	20-150%
	13C8-PFOS	93%	20-150%
	13C8-FOSA	81%	20-150%
	d3-MeFOSA	53%	20-150%
	d5-EtFOSA	49%	20-150%
	d3-MeFOSAA	84%	20-150%
	d5-EtFOSAA	81%	20-150%
	d7-MeFOSE	49%	20-150%
	d9-EtFOSE	47%	20-150%
	13C2-4:2FTS	87%	20-180%
	13C2-6:2FTS	88%	20-180%
	13C2-8:2FTS	88%	20-180%
	13C3-HFPO-DA	81%	20-150%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: DA60875
 Account: ALMS SGS Wheat Ridge, CO
 Project: SWSDCOSV: PFAS Sampling

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP930-B5	7Q1282.D	1	01/05/24	MV	01/02/24	OP930	S7Q21

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

DA60875-2, DA60875-3, DA60875-4, DA60875-5, DA60875-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
375-22-4	Perfluorobutanoic acid	0.1	0.112	112	40-150
2706-90-3	Perfluoropentanoic acid	0.05	0.0465	93	40-150
307-24-4	Perfluorohexanoic acid	0.025	0.0234	94	40-150
375-85-9	Perfluoroheptanoic acid	0.025	0.0250	100	40-150
335-67-1	Perfluorooctanoic acid	0.025	0.0235	94	40-150
375-95-1	Perfluorononanoic acid	0.025	0.0237	95	40-150
335-76-2	Perfluorodecanoic acid	0.025	0.0243	97	40-150
2058-94-8	Perfluoroundecanoic acid	0.025	0.0258	103	40-150
307-55-1	Perfluorododecanoic acid	0.025	0.0247	99	40-150
72629-94-8	Perfluorotridecanoic acid	0.025	0.0241	96	40-150
376-06-7	Perfluorotetradecanoic acid	0.025	0.0278	111	40-150
375-73-5	Perfluorobutanesulfonic acid	0.0222	0.0233	105	40-150
2706-91-4	Perfluoropentanesulfonic acid	0.0235	0.0241	102	40-150
355-46-4	Perfluorohexanesulfonic acid	0.0229	0.0218	95	40-150
375-92-8	Perfluoroheptanesulfonic acid	0.0238	0.0237	99	40-150
1763-23-1	Perfluorooctanesulfonic acid	0.0232	0.0242	104	40-150
68259-12-1	Perfluorononanesulfonic acid	0.0241	0.0227	94	40-150
335-77-3	Perfluorodecanesulfonic acid	0.0241	0.0229	95	40-150
79780-39-5	Perfluorododecanesulfonic aci	0.0243	0.0201	83	40-150
757124-72-44:2	Fluorotelomer sulfonate	0.0938	0.0920	98	40-150
27619-97-2	6:2 Fluorotelomer sulfonate	0.095	0.0976	103	40-150
39108-34-4	8:2 Fluorotelomer sulfonate	0.096	0.0972	101	40-150
754-91-6	PFOSA	0.025	0.0263	105	40-150
31506-32-8	MeFOSA	0.05	0.0600	120	40-150
4151-50-2	EtFOSA	0.05	0.0626	125	40-150
2355-31-9	MeFOSAA	0.025	0.0268	107	40-150
2991-50-6	EtFOSAA	0.025	0.0263	105	40-150
24448-09-7	MeFOSE	0.125	0.131	105	40-150
1691-99-2	EtFOSE	0.125	0.131	105	40-150
13252-13-6	HFPO-DA (GenX)	0.05	0.0606	121	40-150
919005-14-4	ADONA	0.0473	0.0592	125	40-150
377-73-1	PFMPA	0.05	0.0512	102	40-150
863090-89-5	PFMBA	0.05	0.0483	97	40-150
151772-58-6	NFDHA	0.05	0.0503	101	40-150
756426-58-19	Cl-PF3ONS (F-53B Major)	0.0468	0.0569	122	40-150
763051-92-91	Cl-PF3OUdS (F-53B Minor)	0.0473	0.0528	112	40-150

* = Outside of Control Limits.

Blank Spike Summary

Job Number: DA60875
 Account: ALMS SGS Wheat Ridge, CO
 Project: SWSDCOSV: PFAS Sampling

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP930-BS	7Q1282.D	1	01/05/24	MV	01/02/24	OP930	S7Q21

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

DA60875-2, DA60875-3, DA60875-4, DA60875-5, DA60875-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
113507-82-7	PFEESA	0.0445	0.0494	111	40-150
356-02-5	3:3 Fluorotelomer carboxylate	0.125	0.130	104	40-150
914637-49-35:3	Fluorotelomer carboxylate	0.625	0.651	104	40-150
812-70-4	7:3 Fluorotelomer carboxylate	0.625	0.668	107	40-150

CAS No.	ID Standard Recoveries	BSP	Limits
	13C4-PFBA	80%	20-150%
	13C5-PFPeA	98%	20-150%
	13C5-PFHxA	94%	20-150%
	13C4-PFHpA	92%	20-150%
	13C8-PFOA	95%	20-150%
	13C9-PFNA	91%	20-150%
	13C6-PFDA	94%	20-150%
	13C7-PFUnDA	91%	20-150%
	13C2-PFDoDA	92%	20-150%
	13C2-PFTeDA	73%	20-150%
	13C3-PFBS	95%	20-150%
	13C3-PFHxS	98%	20-150%
	13C8-PFOS	92%	20-150%
	13C8-FOSA	74%	20-150%
	d3-MeFOSA	65%	20-150%
	d5-EtFOSA	60%	20-150%
	d3-MeFOSAA	87%	20-150%
	d5-EtFOSAA	87%	20-150%
	d7-MeFOSE	50%	20-150%
	d9-EtFOSE	50%	20-150%
	13C2-4:2FTS	98%	20-180%
	13C2-6:2FTS	96%	20-180%
	13C2-8:2FTS	90%	20-180%
	13C3-HFPO-DA	85%	20-150%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: DA60875
 Account: ALMS SGS Wheat Ridge, CO
 Project: SWSDCOSV: PFAS Sampling

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP927-BS	5Q24108.D	1	01/03/24	LR	01/02/24	OP927	S5Q378

The QC reported here applies to the following samples:

Method: EPA 537M BY ID

DA60875-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
375-22-4	Perfluorobutanoic acid	0.08	0.0853	107	70-130
2706-90-3	Perfluoropentanoic acid	0.08	0.0856	107	70-130
307-24-4	Perfluorohexanoic acid	0.08	0.0856	107	70-130
375-85-9	Perfluoroheptanoic acid	0.08	0.0872	109	70-130
335-67-1	Perfluorooctanoic acid	0.08	0.0870	109	70-130
375-95-1	Perfluorononanoic acid	0.08	0.0857	107	70-130
335-76-2	Perfluorodecanoic acid	0.08	0.0889	111	70-130
2058-94-8	Perfluoroundecanoic acid	0.08	0.0898	112	70-130
307-55-1	Perfluorododecanoic acid	0.08	0.0902	113	70-130
72629-94-8	Perfluorotridecanoic acid	0.08	0.0907	113	60-140
376-06-7	Perfluorotetradecanoic acid	0.08	0.0929	116	70-130
375-73-5	Perfluorobutanesulfonic acid	0.08	0.0886	111	70-130
2706-91-4	Perfluoropentanesulfonic acid	0.08	0.0672	84	70-130
355-46-4	Perfluorohexanesulfonic acid	0.08	0.0850	106	70-130
375-92-8	Perfluoroheptanesulfonic acid	0.08	0.0737	92	70-130
1763-23-1	Perfluorooctanesulfonic acid	0.08	0.0815	102	70-130
68259-12-1	Perfluorononanesulfonic acid	0.08	0.0915	114	65-130
335-77-3	Perfluorodecanesulfonic acid	0.08	0.0659	82	60-130
754-91-6	PFOSA	0.08	0.0896	112	70-130
2355-31-9	MeFOSAA	0.08	0.0855	107	70-130
2991-50-6	EiFOSAA	0.08	0.0892	112	70-130
757124-72-44:2	Fluorotelomer sulfonate	0.08	0.0884	111	70-130
27619-97-2	6:2 Fluorotelomer sulfonate	0.08	0.0914	114	70-130
39108-34-4	8:2 Fluorotelomer sulfonate	0.08	0.0870	109	70-130
13252-13-6	HFPO-DA (GenX)	0.08	0.0824	103	70-130

CAS No.	ID Standard Recoveries	BSP	Limits
	13C4-PFBA	27%* a	35-135%
	13C5-PFPeA	19%* a	50-150%
	13C5-PFHxA	13%* a	50-150%
	13C4-PFHpA	10%* a	50-150%
	13C8-PFOA	8%* a	50-150%
	13C9-PFNA	7%* a	50-150%
	13C6-PFDA	8%* a	50-150%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: DA60875
 Account: ALMS SGS Wheat Ridge, CO
 Project: SWSDCOSV: PFAS Sampling

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP927-BS	5Q24108.D	1	01/03/24	LR	01/02/24	OP927	S5Q378

The QC reported here applies to the following samples:

Method: EPA 537M BY ID

DA60875-6

CAS No.	ID Standard Recoveries	BSP	Limits
	13C7-PFUnDA	8%* a	40-140%
	13C2-PFDoDA	7%* a	40-140%
	13C2-PFTeDA	8%* a	30-130%
	13C3-PFBS	9%* a	50-150%
	13C3-PFHxS	6%* a	50-150%
	13C8-PFOS	6%* a	50-150%
	13C8-FOSA	31%	30-130%
	d3-MeFOSAA	9%* a	40-140%
	d5-EtFOSAA	8%* a	40-140%
	13C2-4:2FTS	20%* a	50-150%
	13C2-6:2FTS	12%* a	50-150%
	13C2-8:2FTS	10%* a	50-150%
	13C3-HFPO-DA	15%* a	50-150%

(a) Outside control limits.

* = Outside of Control Limits.

Blank Spike Summary

Job Number: DA60875
 Account: ALMS SGS Wheat Ridge, CO
 Project: SWSDCOSV: PFAS Sampling

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP927-BS	5Q24217.D	1	01/05/24	LR	01/02/24	OP927	S5Q380

The QC reported here applies to the following samples:

Method: EPA 537M BY ID

DA60875-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
375-22-4	Perfluorobutanoic acid	0.08	0.0852	107	70-130
2706-90-3	Perfluoropentanoic acid	0.08	0.0866	108	70-130
307-24-4	Perfluorohexanoic acid	0.08	0.0869	109	70-130
375-85-9	Perfluoroheptanoic acid	0.08	0.0878	110	70-130
335-67-1	Perfluorooctanoic acid	0.08	0.0907	113	70-130
375-95-1	Perfluorononanoic acid	0.08	0.0875	109	70-130
335-76-2	Perfluorodecanoic acid	0.08	0.0902	113	70-130
2058-94-8	Perfluoroundecanoic acid	0.08	0.0887	111	70-130
307-55-1	Perfluorododecanoic acid	0.08	0.0898	112	70-130
72629-94-8	Perfluorotridecanoic acid	0.08	0.0603	75	60-140
376-06-7	Perfluorotetradecanoic acid	0.08	0.0868	109	70-130
375-73-5	Perfluorobutanesulfonic acid	0.08	0.0827	103	70-130
2706-91-4	Perfluoropentanesulfonic acid	0.08	0.0589	74	70-130
355-46-4	Perfluorohexanesulfonic acid	0.08	0.0802	100	70-130
375-92-8	Perfluoroheptanesulfonic acid	0.08	0.118	148*	70-130
1763-23-1	Perfluorooctanesulfonic acid	0.08	0.0845	106	70-130
68259-12-1	Perfluorononanesulfonic acid	0.08	0.0510	64*	65-130
335-77-3	Perfluorodecanesulfonic acid	0.08	0.0287	36*	60-130
754-91-6	PFOSA	0.08	0.0914	114	70-130
2355-31-9	MeFOSAA	0.08	0.0742	93	70-130
2991-50-6	EiFOSAA	0.08	0.0654	82	70-130
757124-72-44:2	Fluorotelomer sulfonate	0.08	0.0870	109	70-130
27619-97-2	6:2 Fluorotelomer sulfonate	0.08	0.0913	114	70-130
39108-34-4	8:2 Fluorotelomer sulfonate	0.08	0.0823	103	70-130
13252-13-6	HFPO-DA (GenX)	0.08	0.0961	120	70-130

CAS No.	ID Standard Recoveries	BSP	Limits
	13C4-PFBA	21%* a	35-135%
	13C5-PFPeA	15%* a	50-150%
	13C5-PFHxA	11%* a	50-150%
	13C4-PFHpA	8%* a	50-150%
	13C8-PFOA	6%* a	50-150%
	13C9-PFNA	4%* a	50-150%
	13C6-PFDA	3%* a	50-150%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: DA60875
 Account: ALMS SGS Wheat Ridge, CO
 Project: SWSDCOSV: PFAS Sampling

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP927-BS	5Q24217.D	1	01/05/24	LR	01/02/24	OP927	S5Q380

The QC reported here applies to the following samples:

Method: EPA 537M BY ID

DA60875-6

CAS No.	ID Standard Recoveries	BSP	Limits
	13C7-PFUnDA	2%* a	40-140%
	13C2-PFDoDA	1%* a	40-140%
	13C2-PFTeDA	0%* a	30-130%
	13C3-PFBS	7%* a	50-150%
	13C3-PFHxS	4%* a	50-150%
	13C8-PFOS	2%* a	50-150%
	13C8-FOSA	69%	30-130%
	d3-MeFOSAA	3%* a	40-140%
	d5-EtFOSAA	2%* a	40-140%
	13C2-4:2FTS	18%* a	50-150%
	13C2-6:2FTS	9%* a	50-150%
	13C2-8:2FTS	5%* a	50-150%
	13C3-HFPO-DA	13%* a	50-150%

(a) Outside control limits.

* = Outside of Control Limits.

Blank Spike Summary

Job Number: DA60875
 Account: ALMS SGS Wheat Ridge, CO
 Project: SWSDCOSV: PFAS Sampling

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP1021-BS	2Q118674.D	1	01/09/24	LR	01/08/24	OP1021	S2Q1694

The QC reported here applies to the following samples:

Method: EPA 537M BY ID

DA60875-2, DA60875-3, DA60875-4, DA60875-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
375-22-4	Perfluorobutanoic acid	0.08	0.0628	79	70-130
2706-90-3	Perfluoropentanoic acid	0.08	0.0644	81	70-130
307-24-4	Perfluorohexanoic acid	0.08	0.0626	78	70-130
375-85-9	Perfluoroheptanoic acid	0.08	0.0637	80	70-130
335-67-1	Perfluorooctanoic acid	0.08	0.0641	80	70-130
375-95-1	Perfluorononanoic acid	0.08	0.0628	79	70-130
335-76-2	Perfluorodecanoic acid	0.08	0.0635	79	70-130
2058-94-8	Perfluoroundecanoic acid	0.08	0.0626	78	70-130
307-55-1	Perfluorododecanoic acid	0.08	0.0634	79	70-130
72629-94-8	Perfluorotridecanoic acid	0.08	0.0586	73	60-140
376-06-7	Perfluorotetradecanoic acid	0.08	0.0643	80	70-130
375-73-5	Perfluorobutanesulfonic acid	0.08	0.0630	79	70-130
2706-91-4	Perfluoropentanesulfonic acid	0.08	0.0642	80	70-130
355-46-4	Perfluorohexanesulfonic acid	0.08	0.0629	79	70-130
375-92-8	Perfluoroheptanesulfonic acid	0.08	0.0657	82	70-130
1763-23-1	Perfluorooctanesulfonic acid	0.08	0.0635	79	70-130
68259-12-1	Perfluorononanesulfonic acid	0.08	0.0572	72	65-130
335-77-3	Perfluorodecanesulfonic acid	0.08	0.0539	67	60-130
754-91-6	PFOSA	0.08	0.0645	81	70-130
2355-31-9	MeFOSAA	0.08	0.0658	82	70-130
2991-50-6	EiFOSAA	0.08	0.0614	77	70-130
757124-72-44:2	Fluorotelomer sulfonate	0.08	0.0663	83	70-130
27619-97-2	6:2 Fluorotelomer sulfonate	0.08	0.0694	87	70-130
39108-34-4	8:2 Fluorotelomer sulfonate	0.08	0.0658	82	70-130
13252-13-6	HFPO-DA (GenX)	0.08	0.0644	81	70-130

CAS No.	ID Standard Recoveries	BSP	Limits
	13C4-PFBA	109%	35-135%
	13C5-PFPeA	108%	50-150%
	13C5-PFHxA	108%	50-150%
	13C4-PFHpA	105%	50-150%
	13C8-PFOA	107%	50-150%
	13C9-PFNA	105%	50-150%
	13C6-PFDA	102%	50-150%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: DA60875
 Account: ALMS SGS Wheat Ridge, CO
 Project: SWSDCOSV: PFAS Sampling

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP1021-BS	2Q118674.D	1	01/09/24	LR	01/08/24	OP1021	S2Q1694

The QC reported here applies to the following samples:

Method: EPA 537M BY ID

DA60875-2, DA60875-3, DA60875-4, DA60875-5

CAS No.	ID Standard Recoveries	BSP	Limits
	13C7-PFUnDA	95%	40-140%
	13C2-PFDoDA	85%	40-140%
	13C2-PFTeDA	72%	30-130%
	13C3-PFBS	107%	50-150%
	13C3-PFHxS	104%	50-150%
	13C8-PFOS	99%	50-150%
	13C8-FOSA	88%	30-130%
	d3-MeFOSAA	98%	40-140%
	d5-EtFOSAA	97%	40-140%
	13C2-4:2FTS	111%	50-150%
	13C2-6:2FTS	107%	50-150%
	13C2-8:2FTS	107%	50-150%
	13C3-HFPO-DA	104%	50-150%

* = Outside of Control Limits.

Matrix Spike Summary

Job Number: DA60875
 Account: ALMS SGS Wheat Ridge, CO
 Project: SWSDCOSV: PFAS Sampling

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP930-MS	7Q1289.D	1	01/05/24	MV	01/02/24	OP930	S7Q21
DA60875-3	7Q1288.D	1	01/05/24	MV	01/02/24	OP930	S7Q21

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

DA60875-2, DA60875-3, DA60875-4, DA60875-5, DA60875-6

CAS No.	Compound	DA60875-3 ug/l	Spike Q	MS ug/l	MS %	Limits
375-22-4	Perfluorobutanoic acid	ND	0.192	0.212	110	40-150
2706-90-3	Perfluoropentanoic acid	ND	0.0962	0.0886	92	40-150
307-24-4	Perfluorohexanoic acid	ND	0.0481	0.0449	93	40-150
375-85-9	Perfluoroheptanoic acid	ND	0.0481	0.0484	101	40-150
335-67-1	Perfluorooctanoic acid	ND	0.0481	0.0461	96	40-150
375-95-1	Perfluorononanoic acid	ND	0.0481	0.0455	95	40-150
335-76-2	Perfluorodecanoic acid	ND	0.0481	0.0432	90	40-150
2058-94-8	Perfluoroundecanoic acid	ND	0.0481	0.0546	114	40-150
307-55-1	Perfluorododecanoic acid	ND	0.0481	0.0480	100	40-150
72629-94-8	Perfluorotridecanoic acid	ND	0.0481	0.0442	92	40-150
376-06-7	Perfluorotetradecanoic acid	ND	0.0481	0.0522	109	40-150
375-73-5	Perfluorobutanesulfonic acid	ND	0.0426	0.0425	100	40-150
2706-91-4	Perfluoropentanesulfonic acid	ND	0.0452	0.0490	108	40-150
355-46-4	Perfluorohexanesulfonic acid	ND	0.0439	0.0432	98	40-150
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0458	0.0524	114	40-150
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0446	0.0451	101	40-150
68259-12-1	Perfluorononanesulfonic acid	ND	0.0463	0.0424	92	40-150
335-77-3	Perfluorodecanesulfonic acid	ND	0.0464	0.0384	83	40-150
79780-39-5	Perfluorododecanesulfonic aci	ND	0.0466	0.0356	76	40-150
757124-72-44:2	Fluorotelomer sulfonate	ND	0.18	0.173	96	40-150
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.183	0.204	112	40-150
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.185	0.177	96	40-150
754-91-6	PFOSA	ND	0.0481	0.0484	101	40-150
31506-32-8	MeFOSA	ND	0.0962	0.116	121	40-150
4151-50-2	EtFOSA	ND	0.0962	0.115	120	40-150
2355-31-9	MeFOSAA	ND	0.0481	0.0492	102	40-150
2991-50-6	EtFOSAA	ND	0.0481	0.0430	89	40-150
24448-09-7	MeFOSE	ND	0.24	0.260	108	40-150
1691-99-2	EtFOSE	ND	0.24	0.258	107	40-150
13252-13-6	HFPO-DA (GenX)	ND	0.0962	0.111	115	40-150
919005-14-4	ADONA	ND	0.0909	0.105	116	40-150
377-73-1	PFMPA	ND	0.0962	0.0973	101	40-150
863090-89-5	PFMBA	ND	0.0962	0.0945	98	40-150
151772-58-6	NFDHA	ND	0.0962	0.101	105	40-150
756426-58-19	Cl-PF3ONS (F-53B Major)	ND	0.0899	0.0999	111	40-150
763051-92-91	Cl-PF3OUdS (F-53B Minor)	ND	0.0909	0.0768	85	40-150

* = Outside of Control Limits.

Matrix Spike Summary

Job Number: DA60875
 Account: ALMS SGS Wheat Ridge, CO
 Project: SWSDCOSV: PFAS Sampling

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP930-MS	7Q1289.D	1	01/05/24	MV	01/02/24	OP930	S7Q21
DA60875-3	7Q1288.D	1	01/05/24	MV	01/02/24	OP930	S7Q21

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

DA60875-2, DA60875-3, DA60875-4, DA60875-5, DA60875-6

CAS No.	Compound	DA60875-3 ug/l	Spike Q	MS ug/l	MS %	Limits	
113507-82-7	PFEESA	ND		0.0856	0.0956	112	40-150
356-02-5	3:3 Fluorotelomer carboxylate	ND		0.24	0.301	125	40-150
914637-49-35:3	Fluorotelomer carboxylate	ND		1.2	1.29	107	40-150
812-70-4	7:3 Fluorotelomer carboxylate	ND		1.2	1.29	107	40-150

CAS No.	ID Standard Recoveries	MS	DA60875-3	Limits
	13C4-PFBA	72%	92%	20-150%
	13C5-PFPeA	98%	98%	20-150%
	13C5-PFHxA	93%	91%	20-150%
	13C4-PFHpA	93%	94%	20-150%
	13C8-PFOA	92%	91%	20-150%
	13C9-PFNA	95%	95%	20-150%
	13C6-PFDA	95%	87%	20-150%
	13C7-PFUnDA	76%	79%	20-150%
	13C2-PFDoDA	77%	71%	20-150%
	13C2-PFTeDA	64%	67%	20-150%
	13C3-PFBS	98%	94%	20-150%
	13C3-PFHxS	99%	91%	20-150%
	13C8-PFOS	94%	89%	20-150%
	13C8-FOSA	88%	80%	20-150%
	d3-MeFOSA	68%	66%	20-150%
	d5-EtFOSA	65%	68%	20-150%
	d3-MeFOSAA	87%	83%	20-150%
	d5-EtFOSAA	82%	71%	20-150%
	d7-MeFOSE	62%	60%	20-150%
	d9-EtFOSE	59%	58%	20-150%
	13C2-4:2FTS	93%	92%	20-180%
	13C2-6:2FTS	84%	85%	20-180%
	13C2-8:2FTS	88%	82%	20-180%
	13C3-HFPO-DA	92%	86%	20-150%

* = Outside of Control Limits.

Matrix Spike Summary

Job Number: DA60875
 Account: ALMS SGS Wheat Ridge, CO
 Project: SWSDCOSV: PFAS Sampling

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP927-MS	5Q24119.D	1	01/04/24	LR	01/02/24	OP927	S5Q378
DA60865-1 ^a	5Q24118.D	1	01/04/24	LR	01/02/24	OP927	S5Q378
DA60865-1 ^b	5Q24235.D	5	01/05/24	LR	01/02/24	OP927	S5Q380

The QC reported here applies to the following samples:

Method: EPA 537M BY ID

DA60875-6

CAS No.	Compound	DA60865-1 ug/l	Spike Q	MS ug/l	MS %	Limits
375-22-4	Perfluorobutanoic acid	ND ^c	0.0741	0.0832	112	70-130
2706-90-3	Perfluoropentanoic acid	ND ^c	0.0741	0.0819	111	70-130
307-24-4	Perfluorohexanoic acid	ND ^c	0.0741	0.0808	109	70-130
375-85-9	Perfluoroheptanoic acid	ND ^c	0.0741	0.0824	111	70-130
335-67-1	Perfluorooctanoic acid	ND ^c	0.0741	0.0801	108	70-130
375-95-1	Perfluorononanoic acid	ND ^c	0.0741	0.0779	105	70-130
335-76-2	Perfluorodecanoic acid	ND ^c	0.0741	0.0809	109	70-130
2058-94-8	Perfluoroundecanoic acid	ND ^c	0.0741	0.0801	108	70-130
307-55-1	Perfluorododecanoic acid	ND ^c	0.0741	0.0818	110	70-130
72629-94-8	Perfluorotridecanoic acid	ND ^c	0.0741	0.0758	102	60-140
376-06-7	Perfluorotetradecanoic acid	ND ^c	0.0741	0.0815	110	70-130
375-73-5	Perfluorobutanesulfonic acid	ND ^c	0.0741	0.0776	105	70-130
2706-91-4	Perfluoropentanesulfonic acid	ND ^c	0.0741	0.0835	113	70-130
355-46-4	Perfluorohexanesulfonic acid	ND ^c	0.0741	0.0784	106	70-130
375-92-8	Perfluoroheptanesulfonic acid	ND ^c	0.0741	0.0940	127	70-130
1763-23-1	Perfluorooctanesulfonic acid	ND ^c	0.0741	0.0827	112	70-130
68259-12-1	Perfluorononanesulfonic acid	ND ^c	0.0741	0.0710	96	65-130
335-77-3	Perfluorodecanesulfonic acid	ND ^c	0.0741	0.0703	95	60-130
754-91-6	PFOSA	ND ^c	0.0741	0.0798	108	70-130
2355-31-9	MeFOSAA	ND ^c	0.0741	0.0813	110	70-130
2991-50-6	EiFOSAA	ND ^c	0.0741	0.0849	115	70-130
757124-72-44:2	Fluorotelomer sulfonate	ND ^c	0.0741	0.0812	110	70-130
27619-97-2	6:2 Fluorotelomer sulfonate	ND ^c	0.0741	0.0835	113	70-130
39108-34-4	8:2 Fluorotelomer sulfonate	ND ^c	0.0741	0.0837	113	70-130
13252-13-6	HFPO-DA (GenX)	ND ^c	0.0741	0.0798	108	70-130

CAS No.	ID Standard Recoveries	MS	DA60865-1	DA60865-1	Limits
	13C4-PFBA	34%* ^d	27%* ^d	49%	35-135%
	13C5-PFPeA	44%* ^d	29%* ^d	48%* ^d	50-150%
	13C5-PFHxA	53%	22%* ^d	40%* ^d	50-150%
	13C4-PFHpA	54%	12%* ^d	29%* ^d	50-150%
	13C8-PFOA	55%	5%* ^d	21%* ^d	50-150%
	13C9-PFNA	50%	2%* ^d	16%* ^d	50-150%
	13C6-PFDA	41%* ^d	1%* ^d	13%* ^d	50-150%

* = Outside of Control Limits.

Matrix Spike Summary

Job Number: DA60875
 Account: ALMS SGS Wheat Ridge, CO
 Project: SWSDCOSV: PFAS Sampling

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP927-MS	5Q24119.D	1	01/04/24	LR	01/02/24	OP927	S5Q378
DA60865-1 ^a	5Q24118.D	1	01/04/24	LR	01/02/24	OP927	S5Q378
DA60865-1 ^b	5Q24235.D	5	01/05/24	LR	01/02/24	OP927	S5Q380

The QC reported here applies to the following samples:

Method: EPA 537M BY ID

DA60875-6

CAS No.	ID Standard Recoveries	MS	DA60865-1	DA60865-1	Limits
	13C7-PFUnDA	34%* d	1%* d	11%* d	40-140%
	13C2-PFDoDA	30%* d	0%* d	10%* d	40-140%
	13C2-PFTeDA	29%* d	0%* d	9%* d	30-130%
	13C3-PFBS	48%* d	16%* d	34%* d	50-150%
	13C3-PFHxS	52%	4%* d	21%* d	50-150%
	13C8-PFOS	39%* d	1%* d	14%* d	50-150%
	13C8-FOSA	47%	3%* d	14%* d	30-130%
	d3-MeFOSAA	42%	2%* d	16%* d	40-140%
	d5-EtFOSAA	38%* d	1%* d	16%* d	40-140%
	13C2-4:2FTS	62%	38%* d	56%	50-150%
	13C2-6:2FTS	61%	12%* d	27%* d	50-150%
	13C2-8:2FTS	46%* d	2%* d	13%* d	50-150%
	13C3-HFPO-DA	50%	23%* d	43%* d	50-150%

- (a) Confirmation run.
- (b) Dilution required (ID recovery standard failure). Insufficient sample for re-extraction.
- (c) Result is from Run #2.
- (d) Outside control limits.

* = Outside of Control Limits.

Duplicate Summary

Job Number: DA60875
 Account: ALMS SGS Wheat Ridge, CO
 Project: SWSDCOSV: PFAS Sampling

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP930-DUP	7Q1293.D	1	01/05/24	MV	01/02/24	OP930	S7Q21
DA60875-4	7Q1292.D	1	01/05/24	MV	01/02/24	OP930	S7Q21

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

DA60875-2, DA60875-3, DA60875-4, DA60875-5, DA60875-6

CAS No.	Compound	DA60875-4 DUP		Q	RPD	Limits
		ug/l	Q ug/l			
375-22-4	Perfluorobutanoic acid	ND	ND	nc		30
2706-90-3	Perfluoropentanoic acid	ND	ND	nc		30
307-24-4	Perfluorohexanoic acid	ND	ND	nc		30
375-85-9	Perfluoroheptanoic acid	ND	ND	nc		30
335-67-1	Perfluorooctanoic acid	ND	ND	nc		30
375-95-1	Perfluorononanoic acid	ND	ND	nc		30
335-76-2	Perfluorodecanoic acid	ND	ND	nc		30
2058-94-8	Perfluoroundecanoic acid	ND	ND	nc		30
307-55-1	Perfluorododecanoic acid	ND	ND	nc		30
72629-94-8	Perfluorotridecanoic acid	ND	ND	nc		30
376-06-7	Perfluorotetradecanoic acid	ND	ND	nc		30
375-73-5	Perfluorobutanesulfonic acid	ND	ND	nc		30
2706-91-4	Perfluoropentanesulfonic acid	ND	ND	nc		30
355-46-4	Perfluorohexanesulfonic acid	ND	ND	nc		30
375-92-8	Perfluoroheptanesulfonic acid	ND	ND	nc		30
1763-23-1	Perfluorooctanesulfonic acid	ND	ND	nc		30
68259-12-1	Perfluorononanesulfonic acid	ND	ND	nc		30
335-77-3	Perfluorodecanesulfonic acid	ND	ND	nc		30
79780-39-5	Perfluorododecanesulfonic aci	ND	ND	nc		30
757124-72-44:2	Fluorotelomer sulfonate	ND	ND	nc		30
27619-97-2	6:2 Fluorotelomer sulfonate	ND	ND	nc		30
39108-34-4	8:2 Fluorotelomer sulfonate	ND	ND	nc		30
754-91-6	PFOSA	ND	ND	nc		30
31506-32-8	MeFOSA	ND	ND	nc		30
4151-50-2	EtFOSA	ND	ND	nc		30
2355-31-9	MeFOSAA	ND	ND	nc		30
2991-50-6	EtFOSAA	ND	ND	nc		30
24448-09-7	MeFOSE	ND	ND	nc		30
1691-99-2	EtFOSE	ND	ND	nc		30
13252-13-6	HFPO-DA (GenX)	ND	ND	nc		30
919005-14-4	ADONA	ND	ND	nc		30
377-73-1	PFMPA	ND	ND	nc		30
863090-89-5	PFMBA	ND	ND	nc		30
151772-58-6	NFDHA	ND	ND	nc		30
756426-58-19	Cl-PF3ONS (F-53B Major)	ND	ND	nc		30
763051-92-91	Cl-PF3OUdS (F-53B Minor)	ND	ND	nc		30

* = Outside of Control Limits.

Duplicate Summary

Job Number: DA60875
 Account: ALMS SGS Wheat Ridge, CO
 Project: SWSDCOSV: PFAS Sampling

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP930-DUP	7Q1293.D	1	01/05/24	MV	01/02/24	OP930	S7Q21
DA60875-4	7Q1292.D	1	01/05/24	MV	01/02/24	OP930	S7Q21

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

DA60875-2, DA60875-3, DA60875-4, DA60875-5, DA60875-6

CAS No.	Compound	DA60875-4 ug/l	DUP Q	ug/l	Q	RPD	Limits
113507-82-7	PFEESA	ND	ND	ND	nc	30	30
356-02-5	3:3 Fluorotelomer carboxylate	ND	ND	ND	nc	30	30
914637-49-35:3	Fluorotelomer carboxylate	ND	ND	ND	nc	30	30
812-70-4	7:3 Fluorotelomer carboxylate	ND	ND	ND	nc	30	30

CAS No.	ID Standard Recoveries	DUP	DA60875-4	Limits
	13C4-PFBA	92%	90%	20-150%
	13C5-PFPeA	99%	96%	20-150%
	13C5-PFHxA	95%	91%	20-150%
	13C4-PFHpA	95%	92%	20-150%
	13C8-PFOA	91%	90%	20-150%
	13C9-PFNA	94%	96%	20-150%
	13C6-PFDA	83%	82%	20-150%
	13C7-PFUnDA	70%	65%	20-150%
	13C2-PFDoDA	62%	55%	20-150%
	13C2-PFTeDA	54%	44%	20-150%
	13C3-PFBS	95%	91%	20-150%
	13C3-PFHxS	96%	91%	20-150%
	13C8-PFOS	86%	90%	20-150%
	13C8-FOSA	88%	89%	20-150%
	d3-MeFOSA	59%	49%	20-150%
	d5-EtFOSA	56%	49%	20-150%
	d3-MeFOSAA	72%	72%	20-150%
	d5-EtFOSAA	68%	66%	20-150%
	d7-MeFOSE	56%	49%	20-150%
	d9-EtFOSE	49%	45%	20-150%
	13C2-4:2FTS	80%	103%	20-180%
	13C2-6:2FTS	89%	85%	20-180%
	13C2-8:2FTS	77%	69%	20-180%
	13C3-HFPO-DA	91%	89%	20-150%

* = Outside of Control Limits.

Duplicate Summary

Job Number: DA60875
 Account: ALMS SGS Wheat Ridge, CO
 Project: SWSDCOSV: PFAS Sampling

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP927-DUP	5Q24222.D	5	01/05/24	LR	01/02/24	OP927	S5Q380
FC12113-1 ^a	5Q24220.D	5	01/05/24	LR	01/02/24	OP927	S5Q380

The QC reported here applies to the following samples:

Method: EPA 537M BY ID

DA60875-6

CAS No.	Compound	FC12113-1 ug/l	DUP Q ug/l	Q	RPD	Limits
375-22-4	Perfluorobutanoic acid	2.16	2.10	4	30	
2706-90-3	Perfluoropentanoic acid	2.83	2.84	1	30	
307-24-4	Perfluorohexanoic acid	14.4	14.5	1	30	
375-85-9	Perfluoroheptanoic acid	0.799	0.784	4	30	
335-67-1	Perfluorooctanoic acid	1.34	1.35	1	30	
375-95-1	Perfluorononanoic acid	ND	ND	nc	30	
335-76-2	Perfluorodecanoic acid	ND	ND	nc	30	
2058-94-8	Perfluoroundecanoic acid	ND	ND	nc	30	
307-55-1	Perfluorododecanoic acid	ND	ND	nc	30	
72629-94-8	Perfluorotridecanoic acid	ND	ND	nc	30	
376-06-7	Perfluorotetradecanoic acid	ND	ND	nc	30	
375-73-5	Perfluorobutanesulfonic acid	2.95	2.91	0	30	
2706-91-4	Perfluoropentanesulfonic acid	2.67	2.76	0	30	
355-46-4	Perfluorohexanesulfonic acid	13.6	14.2	4	30	
375-92-8	Perfluoroheptanesulfonic acid	0.938	0.883	5	30	
1763-23-1	Perfluorooctanesulfonic acid	10.6	10.3	3	30	
68259-12-1	Perfluorononanesulfonic acid	ND	ND	nc	30	
335-77-3	Perfluorodecanesulfonic acid	ND	ND	nc	30	
754-91-6	PFOSA	ND	ND	nc	30	
2355-31-9	MeFOSAA	ND	ND	nc	30	
2991-50-6	EiFOSAA	ND	ND	nc	30	
757124-72-44:2	Fluorotelomer sulfonate	ND	ND	nc	30	
27619-97-2	6:2 Fluorotelomer sulfonate	0.326	0.317	J 1	30	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	ND	nc	30	
13252-13-6	HFPO-DA (GenX)	ND	ND	nc	30	

CAS No.	ID Standard Recoveries	DUP	FC12113-1	Limits
	13C4-PFBA	75%	74%	35-135%
	13C5-PFPeA	72%	72%	50-150%
	13C5-PFHxA	73%	72%	50-150%
	13C4-PFHpA	76%	72%	50-150%
	13C8-PFOA	78%	72%	50-150%
	13C9-PFNA	76%	68%	50-150%
	13C6-PFDA	72%	67%	50-150%

* = Outside of Control Limits.

Duplicate Summary

Job Number: DA60875
 Account: ALMS SGS Wheat Ridge, CO
 Project: SWSDCOSV: PFAS Sampling

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP927-DUP	5Q24222.D	5	01/05/24	LR	01/02/24	OP927	S5Q380
FC12113-1 ^a	5Q24220.D	5	01/05/24	LR	01/02/24	OP927	S5Q380

The QC reported here applies to the following samples:

Method: EPA 537M BY ID

DA60875-6

CAS No.	ID Standard Recoveries	DUP	FC12113-1	Limits
	13C7-PFUnDA	62%	61%	40-140%
	13C2-PFDoDA	58%	60%	40-140%
	13C2-PFTeDA	52%	62%	30-130%
	13C3-PFBS	73%	72%	50-150%
	13C3-PFHxS	76%	73%	50-150%
	13C8-PFOS	73%	63%	50-150%
	13C8-FOSA	61%	70%	30-130%
	d3-MeFOSAA	79%	78%	40-140%
	d5-EtFOSAA	73%	79%	40-140%
	13C2-4:2FTS	72%	68%	50-150%
	13C2-6:2FTS	72%	67%	50-150%
	13C2-8:2FTS	67%	62%	50-150%
	13C3-HFPO-DA	83%		50-150%

(a) Confirmation run.

* = Outside of Control Limits.

Duplicate Summary

Job Number: DA60875
 Account: ALMS SGS Wheat Ridge, CO
 Project: SWSDCOSV: PFAS Sampling

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP1021-DUP	2Q118775.D	5	01/11/24	JL	01/08/24	OP1021	S2Q1695
FC12113-1	2Q118687.D	1	01/10/24	LR	01/08/24	OP1021	S2Q1694
FC12113-1	2Q118774.D	5	01/11/24	JL	01/08/24	OP1021	S2Q1695

The QC reported here applies to the following samples:

Method: EPA 537M BY ID

DA60875-2, DA60875-3, DA60875-4, DA60875-5

CAS No.	Compound	FC12113-1 ug/l	DUP Q ug/l	Q	RPD	Limits
375-22-4	Perfluorobutanoic acid	1.77	1.72	3		30
2706-90-3	Perfluoropentanoic acid	2.37	2.09	13		30
307-24-4	Perfluorohexanoic acid	11.4 ^a	10.7	6		30
375-85-9	Perfluoroheptanoic acid	0.661	0.590	11		30
335-67-1	Perfluorooctanoic acid	1.11	1.01	9		30
375-95-1	Perfluorononanoic acid	ND	ND	nc		30
335-76-2	Perfluorodecanoic acid	ND	ND	nc		30
2058-94-8	Perfluoroundecanoic acid	ND	ND	nc		30
307-55-1	Perfluorododecanoic acid	ND	ND	nc		30
72629-94-8	Perfluorotridecanoic acid	ND	ND	nc		30
376-06-7	Perfluorotetradecanoic acid	ND	ND	nc		30
375-73-5	Perfluorobutanesulfonic acid	2.43	2.27	7		30
2706-91-4	Perfluoropentanesulfonic acid	2.12	2.05	3		30
355-46-4	Perfluorohexanesulfonic acid	10.9 ^a	10.3	6		30
375-92-8	Perfluoroheptanesulfonic acid	0.785	0.726	8		30
1763-23-1	Perfluorooctanesulfonic acid	10.2 ^a	9.89	3		30
68259-12-1	Perfluorononanesulfonic acid	0.0154	ND	200*		30
335-77-3	Perfluorodecanesulfonic acid	ND	ND	nc		30
754-91-6	PFOSA	0.0221	ND	200*		30
2355-31-9	MeFOSAA	ND	ND	nc		30
2991-50-6	EiFOSAA	ND	ND	nc		30
757124-72-44:2	Fluorotelomer sulfonate	ND	ND	nc		30
27619-97-2	6:2 Fluorotelomer sulfonate	0.305	0.289	J 5		30
39108-34-4	8:2 Fluorotelomer sulfonate	0.0333	ND	200*		30
13252-13-6	HFPO-DA (GenX)	ND	ND	nc		30

CAS No.	ID Standard Recoveries	DUP	FC12113-1	FC12113-1	Limits
	13C4-PFBA	108%	92%	101%	35-135%
	13C5-PFPeA	107%	89%	102%	50-150%
	13C5-PFHxA	105%	81%	99%	50-150%
	13C4-PFHpA	105%	79%	101%	50-150%
	13C8-PFOA	106%	86%	100%	50-150%
	13C9-PFNA	100%	84%	95%	50-150%
	13C6-PFDA	96%	83%	97%	50-150%

* = Outside of Control Limits.

Duplicate Summary

Job Number: DA60875
 Account: ALMS SGS Wheat Ridge, CO
 Project: SWSDCOSV: PFAS Sampling

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP1021-DUP	2Q118775.D	5	01/11/24	JL	01/08/24	OP1021	S2Q1695
FC12113-1	2Q118687.D	1	01/10/24	LR	01/08/24	OP1021	S2Q1694
FC12113-1	2Q118774.D	5	01/11/24	JL	01/08/24	OP1021	S2Q1695

The QC reported here applies to the following samples:

Method: EPA 537M BY ID

DA60875-2, DA60875-3, DA60875-4, DA60875-5

CAS No.	ID Standard Recoveries	DUP	FC12113-1	FC12113-1	Limits
	13C7-PFUnDA	86%	81%	91%	40-140%
	13C2-PFDoDA	83%	76%	87%	40-140%
	13C2-PFTeDA	76%	71%	85%	30-130%
	13C3-PFBS	104%	89%	101%	50-150%
	13C3-PFHxS	104%	80%	98%	50-150%
	13C8-PFOS	88%	82%	85%	50-150%
	13C8-FOSA	87%	90%	95%	30-130%
	d3-MeFOSAA	84%	84%	96%	40-140%
	d5-EtFOSAA	83%	84%	97%	40-140%
	13C2-4:2FTS	103%	83%	97%	50-150%
	13C2-6:2FTS	98%	83%	96%	50-150%
	13C2-8:2FTS	86%	87%	89%	50-150%
	13C3-HFPO-DA	102%			50-150%

(a) Result is from Run #2.

* = Outside of Control Limits.