The results set forth herein are provided by SGS North America Inc.

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Automated Report

Technical Report for

AECOM, INC.

N6274223F0104 RH Fire Suppression System

60697810

SGS Job Number: FC3825

Sampling Date: 03/29/23

Report to:

AECOM, Inc
7595 Technology Way
Denver, CO 80237
katie.abbott@aecom.com; mark.kromis@aecom.com;
watson.tanji@aecom.com; kristin.rutherford@aecom.com
ATTN: Katie Abbott

Total number of pages in report: 26

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.

Norm Farmer
Technical Director

Client Service contact: Elvin Kumar 407-425-6700

Certifications: FL(E83510), LA(03051), KS(E-10327), NC(573), NJ(FL002), NY(12022), SC(96038001) DoD ELAP(ANAB L2229), AZ(AZ0806), CA(2937), TX(T104704404), PA(68-03573), VA(460177), AL, AK, AR, CT, IA, KY, MA, MI. MS, ND, NH, NV, OK, OR, IL, UT, VT, WA, WI, WV

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Test results relate only to samples analyzed.

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Sample Summary

AECOM, INC.

Job No: FC3825

N6274223F0104 RH Fire Suppression System
Project No: 60697810

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FC3825-1	03/29/23	10:35	AYKW	03/30/23	AQ	Ground Water	AF-RHMW225401-WGN01B-2303W4

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: AECOM, INC. **Job No:** FC3825

Site: N6274223F0104 RH Fire Suppression System **Report Date:** 4/6/2023 3:09:45 PM

On 03/30/2023, 1 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at SGS North America Inc - Orlando. at a maximum corrected temperature of 2.1 C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. - Orlando Job Number of FC3825 was assigned to the project.

Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section. Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

MS Semi-volatiles By Method EPA DRAFT 1633

Matrix: AQ **Batch ID:** OP96191

Sample(s) FC3825-1MS were used as the QC samples indicated.

FC3825-1 for 7:3 Fluorotelomer carboxylate: Associated Low Level CCV outside of control limits high, sample was ND.

SGS North America Inc. - Orlando certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting the Quality System precision, accuracy and completeness objectives except as noted. Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria. SGS North America Inc.- Orlando is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety.

Narrative prepared by:

_____

Kim Benham, Client Services *(Signature on File)*

Summary of Hits

Job Number: FC3825
Account: AECOM, INC.
Project: N6274223F0104 RH Fire Suppression System
Collected: 03/29/23

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	LOQ	LOD	Units	Method
FC3825-1	**AF-RHMW225401-WGN01B-2303W4**					
Perfluoropentanoic acid		1.4 J	9.4	1.9	ng/l	EPA DRAFT 1633
Perfluorohexanoic acid		1.1 J	4.7	0.94	ng/l	EPA DRAFT 1633
Perfluoroheptanoic acid		0.92 J	4.7	0.94	ng/l	EPA DRAFT 1633
Perfluorooctanoic acid		1.3 J	4.7	0.94	ng/l	EPA DRAFT 1633
Perfluorobutanesulfonic acid		0.75 J	4.7	0.94	ng/l	EPA DRAFT 1633
Perfluorohexanesulfonic acid		1.2 J	4.7	1.9	ng/l	EPA DRAFT 1633
Perfluorooctanesulfonic acid		1.6 J	4.7	1.9	ng/l	EPA DRAFT 1633

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: AF-RHMW225401-WGN01B-2303W4
Lab Sample ID: FC3825-1
Matrix: AQ - Ground Water
Method: EPA DRAFT 1633 EPA 1633 DRAFT
Project: N6274223F0104 RH Fire Suppression System

Date Sampled: 03/29/23
Date Received: 03/30/23
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	6Q16149.D	1	04/06/23 00:17	MV	03/31/23 09:00	OP96191	S6Q240
Run #2							

	Initial Volume	Final Volume
Run #1	530 ml	5.0 ml
Run #2		

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROALKYL CARBOXYLIC ACIDS							
375-22-4	Perfluorobutanoic acid	3.8 U	19	3.8	1.8	ng/l	
2706-90-3	Perfluoropentanoic acid	1.4	9.4	1.9	0.89	ng/l	J
307-24-4	Perfluorohexanoic acid	1.1	4.7	0.94	0.47	ng/l	J
375-85-9	Perfluoroheptanoic acid	0.92	4.7	0.94	0.47	ng/l	J
335-67-1	Perfluorooctanoic acid	1.3	4.7	0.94	0.47	ng/l	J
375-95-1	Perfluorononanoic acid	1.9 U	4.7	1.9	0.58	ng/l	
335-76-2	Perfluorodecanoic acid	0.94 U	4.7	0.94	0.47	ng/l	
2058-94-8	Perfluoroundecanoic acid	1.9 U	4.7	1.9	0.57	ng/l	
307-55-1	Perfluorododecanoic acid	1.9 U	4.7	1.9	0.57	ng/l	
72629-94-8	Perfluorotridecanoic acid	1.9 U	4.7	1.9	0.79	ng/l	
376-06-7	Perfluorotetradecanoic acid	0.94 U	4.7	0.94	0.47	ng/l	
PERFLUOROALKYL SULFONIC ACIDS							
375-73-5	Perfluorobutanesulfonic acid	0.75	4.7	0.94	0.47	ng/l	J
2706-91-4	Perfluoropentanesulfonic acid	3.8 U	4.7	3.8	1.1	ng/l	
355-46-4	Perfluorohexanesulfonic acid	1.2	4.7	1.9	0.66	ng/l	J
375-92-8	Perfluoroheptanesulfonic acid	0.94 U	4.7	0.94	0.47	ng/l	
1763-23-1	Perfluorooctanesulfonic acid	1.6	4.7	1.9	0.51	ng/l	J
68259-12-1	Perfluorononanesulfonic acid	1.9 U	4.7	1.9	0.54	ng/l	
335-77-3	Perfluorodecanesulfonic acid	1.9 U	4.7	1.9	0.60	ng/l	
79780-39-5	Perfluorododecanesulfonic aci	3.8 U	4.7	3.8	1.1	ng/l	
FLUOROTELOMER SULFONIC ACIDS							
757124-72-4	4:2 Fluorotelomer sulfonate	7.5 U	19	7.5	3.0	ng/l	
27619-97-2	6:2 Fluorotelomer sulfonate	7.5 U	19	7.5	3.3	ng/l	
39108-34-4	8:2 Fluorotelomer sulfonate	7.5 U	19	7.5	3.9	ng/l	
PERFLUOROOCTANE SULFONAMIDES							
754-91-6	PFOSA	1.9 U	4.7	1.9	0.63	ng/l	
31506-32-8	MeFOSA	1.9 U	4.7	1.9	0.94	ng/l	
4151-50-2	EtFOSA	1.9 U	4.7	1.9	0.94	ng/l	

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection 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:	AF-RHMW225401-WGN01B-2303W4		
Lab Sample ID:	FC3825-1	**Date Sampled:**	03/29/23
Matrix:	AQ - Ground Water	**Date Received:**	03/30/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	**Percent Solids:**	n/a
Project:	N6274223F0104 RH Fire Suppression System		

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
PERFLUOROOCTANE SULFONAMIDOACETIC ACIDS							
2355-31-9	MeFOSAA	3.8 U	4.7	3.8	0.94	ng/l	
2991-50-6	EtFOSAA	3.8 U	4.7	3.8	1.3	ng/l	
PERFLUOROOCTANE SULFONAMIDO ETHANOLS							
24448-09-7	MeFOSE	9.4 U	47	9.4	4.1	ng/l	
1691-99-2	EtFOSE	19 U	47	19	7.0	ng/l	
PER and POLYFLUOROETHER CARBOXYLIC ACIDS							
13252-13-6	HFPO-DA (GenX)	3.8 U	19	3.8	0.94	ng/l	
919005-14-4	ADONA	3.8 U	19	3.8	1.8	ng/l	
377-73-1	PFMPA	1.9 U	9.4	1.9	0.94	ng/l	
863090-89-5	PFMBA	3.8 U	9.4	3.8	1.1	ng/l	
151772-58-6	NFDHA	3.8 U	9.4	3.8	1.1	ng/l	
PER and POLYFLUOROETHER SULFONIC ACIDS							
756426-58-1	9Cl-PF3ONS (F-53B Major)	3.8 U	19	3.8	1.3	ng/l	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	3.8 U	19	3.8	1.7	ng/l	
113507-82-7	PFEESA	1.9 U	9.4	1.9	0.74	ng/l	
FLUOROTELOMER CARBOXYLIC ACIDS							
356-02-5	3:3 Fluorotelomer carboxylate	9.4 U	24	9.4	4.3	ng/l	
914637-49-3	5:3 Fluorotelomer carboxylate	19 U	120	19	8.2	ng/l	
812-70-4	7:3 Fluorotelomer carboxylat [a]	19 U	120	19	7.4	ng/l	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFBA	103%		20-150%
	13C5-PFPeA	106%		20-150%
	13C5-PFHxA	114%		20-150%
	13C4-PFHpA	106%		20-150%
	13C8-PFOA	101%		20-150%
	13C9-PFNA	92%		20-150%
	13C6-PFDA	102%		20-150%
	13C7-PFUnDA	100%		20-150%
	13C2-PFDoDA	86%		20-150%
	13C2-PFTeDA	76%		20-150%
	13C3-PFBS	97%		20-150%
	13C3-PFHxS	96%		20-150%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection 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:	AF-RHMW225401-WGN01B-2303W4		
Lab Sample ID:	FC3825-1	**Date Sampled:**	03/29/23
Matrix:	AQ - Ground Water	**Date Received:**	03/30/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	**Percent Solids:**	n/a
Project:	N6274223F0104 RH Fire Suppression System		

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C8-PFOS	101%		20-150%
	13C8-FOSA	81%		20-150%
	d3-MeFOSA	74%		20-150%
	d5-EtFOSA	77%		20-150%
	d3-MeFOSAA	107%		20-150%
	d5-EtFOSAA	101%		20-150%
	d7-MeFOSE	66%		20-150%
	d9-EtFOSE	75%		20-150%
	13C2-4:2FTS	115%		20-150%
	13C2-6:2FTS	108%		20-150%
	13C2-8:2FTS	94%		20-150%
	13C3-HFPO-DA	100%		20-150%

(a) Associated Low Level CCV outside of control limits high, sample was ND.

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection 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
- QC Evaluation: DOD QSM5.x Limits

SGS North America Inc - Orlando
Chain of Custody

4405 Vineland Road, Suite C-15 Orlando, Fl 32811
TEL: 407-425-6700 FAX: 407-425-0707
www.sgs.com

FC3825
SGS - ORLANDO JOB #:

COC #: 2303W4AFSG07
PAGE 1 OF 1

SGS - ORLANDO Quote #:
SKIFF #:

Client / Reporting Information

Company Name: AECOM
Address: 1001 Bishop St. ste 1600
City: Honolulu State: HI Zip: 96813
Project Contact: Katie Abbott Email: katie.abbott@aecom.com
Project Manager: Watson Tanji Email: watson.tanji@aecom.com
Phone #: 303-796-4624 / 808-954-4512
Sampler(s) Name(s) (Printed)
Sampler 1: Mariah Gaskin Sampler 2: Kaitlan Wilde

Project Information

Project Name: N6274223F0104 RH Fire Suppression System
Street
City Honolulu State Hawaii
Project # 60697810
Fax #
Client Purchase Order #

Analytical Information

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL - Sludge
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe

SGS Orlando Sample #	Field ID / Point of Collection	COLLECTION DATE	TIME	SAMPLED BY:	MATRIX	TOTAL # OF BOTTLES	OTHER	NONE	HCl	NaOH	HNO3	H2SO4	NAOH+ZNAC	DI WATER	MEOH	PFAS EPA Draft 1633	LAB USE ONLY
1	AF-RHMW225401-WGN01B-2303W4	3/29/23	1035		GW	3		X								X	

3/29/23

INITIAL ASSESSMENT

LABEL VERIFICATION

Turnaround Time (Business days)

10 Day (Business) Approved By: / Date:
7 Day
5 Day
3 Day *RUSH*
2 Day *RUSH*
1 Day *RUSH*
Other
Rush T/A Data Available VIA Email or Lablink

Data Deliverable Information

- [ ] COMMERCIAL "A" (RESULTS ONLY)
- [ ] COMMERCIAL "B" (RESULTS PLUS QC)
- [ ] REDT1 (EPA LEVEL 3)
- [x] FULLT1 (EPA LEVEL 4)
- [x] EDD'S

Comments / Remarks

EDMS upload database: JBPHE
EDMS Coverage: AFFF Assessment Sampling GW

United AWB OIL "7397377)

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler/Affiliation	Date Time:	Received By/Affiliation	Relinquished By/Affiliation	Date Time:	Received By/Affiliation
1 Andy Young / AECOM	3/29/23	2	3	3/29/23 1410	4 3/30/23 1500
Relinquished by/Affiliation	Date Time:	Received By/Affiliation	Relinquished By/Affiliation	Date Time:	Received By/Affiliation
5		6	7		8

Lab Use Only : Cooler Temperature (s) Celsius (corrected): 2.2

http://www.sgs.com/en/terms-and-conditions

PFAS_COCs_ALL.xls Rev 031318

FC3825: Chain of Custody
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SGS Sample Receipt Summary

Job Number: FC3825 **Client:** AECOM **Project:** N6274223F0104 RH Fire Suppression System

Date / Time Received: 3/30/2023 3:00:00 PM **Delivery Method:** United Cargo/Airspace **Airbill #'s:** United Cargo AWB #: 016-73973771

Therm ID: IR 1; **Therm CF:** -0.1; **# of Coolers:** 1

Cooler Temps (Raw Measured) °C: Cooler 1: (2.2);

Cooler Temps (Corrected) °C: Cooler 1: (2.1);

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 preserved properly	☑		☐	
3. Sufficient volume/containers recvd for analysis:	☑		☐	
4. Condition of sample	Intact			
5. Sample recvd 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 5035 Field Kits: _____ Number of Lab Filtered Metals: _____

Test Strip Lot #s: pH 0-3 230320 pH 10-12 25BDH07 Other: (Specify) pH 1.0 - 12.0 222221

Residual Chlorine Test Strip Lot #: _____

Comments

SM001
Rev. Date 05/24/17

Technician: NATHANS Date: 3/30/2023 3:00:00 PM Reviewer: CD Date: 4/3/2023

FC3825: Chain of Custody
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QC Evaluation: DOD QSM5.x Limits

Job Number: FC3825
Account: AECOM, INC.
Project: N6274223F0104 RH Fire Suppression System
Collected: 03/29/23

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits

No DOD QSM5.x Limits found for methods in this job.

* Sample used for QC is not from job FC3825

MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

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

Instrument Blank

Job Number: FC3825
Account: AECOMCOD AECOM, INC.
Project: N6274223F0104 RH Fire Suppression System

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
S6Q240-IBLK	6Q16105.D	1	04/05/23	MV	n/a	n/a	S6Q240

The QC reported here applies to the following samples: **Method:** EPA DRAFT 1633

FC3825-1

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	
757124-72-4	4:2 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	
756426-58-1	9Cl-PF3ONS (F-53B Major)	ND	0.0080	0.0020	ug/l	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	ND	0.0080	0.0020	ug/l	

Instrument Blank

Job Number: FC3825
Account: AECOMCOD AECOM, INC.
Project: N6274223F0104 RH Fire Suppression System

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
S6Q240-IBLK	6Q16105.D	1	04/05/23	MV	n/a	n/a	S6Q240

The QC reported here applies to the following samples: **Method:** EPA DRAFT 1633

FC3825-1

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	
914637-49-3	5:3 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	100%	20-150%
	13C5-PFPeA	101%	20-150%
	13C5-PFHxA	109%	20-150%
	13C4-PFHpA	102%	20-150%
	13C8-PFOA	100%	20-150%
	13C9-PFNA	94%	20-150%
	13C6-PFDA	104%	20-150%
	13C7-PFUnDA	100%	20-150%
	13C2-PFDoDA	92%	20-150%
	13C2-PFTeDA	93%	20-150%
	13C3-PFBS	99%	20-150%
	13C3-PFHxS	103%	20-150%
	13C8-PFOS	93%	20-150%
	13C8-FOSA	93%	20-150%
	d3-MeFOSA	94%	20-150%
	d5-EtFOSA	92%	20-150%
	d3-MeFOSAA	98%	20-150%
	d5-EtFOSAA	99%	20-150%
	d7-MeFOSE	85%	20-150%
	d9-EtFOSE	83%	20-150%
	13C2-4:2FTS	125%	20-150%
	13C2-6:2FTS	114%	20-150%
	13C2-8:2FTS	113%	20-150%
	13C3-HFPO-DA	103%	20-150%

Continuing Calibration Blank

Job Number: FC3825
Account: AECOMCOD AECOM, INC.
Project: N6274223F0104 RH Fire Suppression System

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
S6Q240-ICCB	6Q16145.D	1	04/05/23	MV	n/a	n/a	S6Q240

The QC reported here applies to the following samples: **Method:** EPA DRAFT 1633

FC3825-1

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	
757124-72-4	4:2 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	
756426-58-1	9Cl-PF3ONS (F-53B Major)	ND	0.0080	0.0020	ug/l	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	ND	0.0080	0.0020	ug/l	

Continuing Calibration Blank

Job Number: FC3825
Account: AECOMCOD AECOM, INC.
Project: N6274223F0104 RH Fire Suppression System

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
S6Q240-ICCB	6Q16145.D	1	04/05/23	MV	n/a	n/a	S6Q240

The QC reported here applies to the following samples: **Method:** EPA DRAFT 1633

FC3825-1

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	
914637-49-3	5:3 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	101%	20-150%
	13C5-PFPeA	98%	20-150%
	13C5-PFHxA	101%	20-150%
	13C4-PFHpA	98%	20-150%
	13C8-PFOA	101%	20-150%
	13C9-PFNA	113%	20-150%
	13C6-PFDA	100%	20-150%
	13C7-PFUnDA	104%	20-150%
	13C2-PFDoDA	93%	20-150%
	13C2-PFTeDA	95%	20-150%
	13C3-PFBS	95%	20-150%
	13C3-PFHxS	96%	20-150%
	13C8-PFOS	93%	20-150%
	13C8-FOSA	95%	20-150%
	d3-MeFOSA	91%	20-150%
	d5-EtFOSA	88%	20-150%
	d3-MeFOSAA	99%	20-150%
	d5-EtFOSAA	101%	20-150%
	d7-MeFOSE	85%	20-150%
	d9-EtFOSE	82%	20-150%
	13C2-4:2FTS	113%	20-150%
	13C2-6:2FTS	113%	20-150%
	13C2-8:2FTS	94%	20-150%
	13C3-HFPO-DA	96%	20-150%

Method Blank Summary

Job Number: FC3825
Account: AECOMCOD AECOM, INC.
Project: N6274223F0104 RH Fire Suppression System

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP96191-MB	6Q16148.D	1	04/06/23	MV	03/31/23	OP96191	S6Q240

The QC reported here applies to the following samples: **Method:** EPA DRAFT 1633

FC3825-1

CAS No.	Compound	Result	RL	MDL	Units	Q
375-22-4	Perfluorobutanoic acid	ND	0.020	0.0019	ug/l	
2706-90-3	Perfluoropentanoic acid	ND	0.010	0.00094	ug/l	
307-24-4	Perfluorohexanoic acid	ND	0.0050	0.00050	ug/l	
375-85-9	Perfluoroheptanoic acid	ND	0.0050	0.00050	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0050	0.00050	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0050	0.00061	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0050	0.00050	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0050	0.00060	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0050	0.00060	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0050	0.00084	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0050	0.00050	ug/l	
375-73-5	Perfluorobutanesulfonic acid	ND	0.0050	0.00050	ug/l	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.0050	0.0011	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0050	0.00070	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0050	0.00050	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0050	0.00054	ug/l	
68259-12-1	Perfluorononanesulfonic acid	ND	0.0050	0.00057	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0050	0.00064	ug/l	
79780-39-5	Perfluorododecanesulfonic aci	ND	0.0050	0.0011	ug/l	
757124-72-4	4:2 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	0.0050	0.00067	ug/l	
31506-32-8	MeFOSA	ND	0.0050	0.0010	ug/l	
4151-50-2	EtFOSA	ND	0.0050	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	0.050	0.0044	ug/l	
1691-99-2	EtFOSE	ND	0.050	0.0074	ug/l	
13252-13-6	HFPO-DA (GenX)	ND	0.020	0.0010	ug/l	
919005-14-4	ADONA	ND	0.020	0.0019	ug/l	
377-73-1	PFMPA	ND	0.010	0.0010	ug/l	
863090-89-5	PFMBA	ND	0.010	0.0011	ug/l	
151772-58-6	NFDHA	ND	0.010	0.0012	ug/l	
756426-58-1	9Cl-PF3ONS (F-53B Major)	ND	0.020	0.0014	ug/l	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	ND	0.020	0.0018	ug/l	

Method Blank Summary

Job Number: FC3825
Account: AECOMCOD AECOM, INC.
Project: N6274223F0104 RH Fire Suppression System

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP96191-MB	6Q16148.D	1	04/06/23	MV	03/31/23	OP96191	S6Q240

The QC reported here applies to the following samples: **Method:** EPA DRAFT 1633

FC3825-1

CAS No.	Compound	Result	RL	MDL	Units	Q
113507-82-7	PFEESA	ND	0.010	0.00078	ug/l	
356-02-5	3:3 Fluorotelomer carboxylate	ND	0.025	0.0045	ug/l	
914637-49-3	5:3 Fluorotelomer carboxylate	ND	0.13	0.0087	ug/l	
812-70-4	7:3 Fluorotelomer carboxylate	ND	0.13	0.0079	ug/l	

CAS No.	ID Standard Recoveries		Limits
	13C4-PFBA	104%	20-150%
	13C5-PFPeA	101%	20-150%
	13C5-PFHxA	101%	20-150%
	13C4-PFHpA	106%	20-150%
	13C8-PFOA	104%	20-150%
	13C9-PFNA	105%	20-150%
	13C6-PFDA	91%	20-150%
	13C7-PFUnDA	94%	20-150%
	13C2-PFDoDA	80%	20-150%
	13C2-PFTeDA	70%	20-150%
	13C3-PFBS	96%	20-150%
	13C3-PFHxS	98%	20-150%
	13C8-PFOS	97%	20-150%
	13C8-FOSA	76%	20-150%
	d3-MeFOSA	73%	20-150%
	d5-EtFOSA	76%	20-150%
	d3-MeFOSAA	109%	20-150%
	d5-EtFOSAA	102%	20-150%
	d7-MeFOSE	66%	20-150%
	d9-EtFOSE	74%	20-150%
	13C2-4:2FTS	115%	20-150%
	13C2-6:2FTS	112%	20-150%
	13C2-8:2FTS	104%	20-150%
	13C3-HFPO-DA	105%	20-150%

Blank Spike Summary

Job Number: FC3825
Account: AECOMCOD AECOM, INC.
Project: N6274223F0104 RH Fire Suppression System

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP96191-LLBS	6Q16147.D	1	04/05/23	MV	03/31/23	OP96191	S6Q240

The QC reported here applies to the following samples: **Method:** EPA DRAFT 1633

FC3825-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
375-22-4	Perfluorobutanoic acid	0.04	0.0375	94	40-150
2706-90-3	Perfluoropentanoic acid	0.02	0.0199	100	40-150
307-24-4	Perfluorohexanoic acid	0.01	0.0107	107	40-150
375-85-9	Perfluoroheptanoic acid	0.01	0.0094	94	40-150
335-67-1	Perfluorooctanoic acid	0.01	0.0104	104	40-150
375-95-1	Perfluorononanoic acid	0.01	0.0094	94	40-150
335-76-2	Perfluorodecanoic acid	0.01	0.0103	103	40-150
2058-94-8	Perfluoroundecanoic acid	0.01	0.0085	85	40-150
307-55-1	Perfluorododecanoic acid	0.01	0.0100	100	40-150
72629-94-8	Perfluorotridecanoic acid	0.01	0.0098	98	40-150
376-06-7	Perfluorotetradecanoic acid	0.01	0.0096	96	40-150
375-73-5	Perfluorobutanesulfonic acid	0.00887	0.0085	96	40-150
2706-91-4	Perfluoropentanesulfonic acid	0.00941	0.0092	98	40-150
355-46-4	Perfluorohexanesulfonic acid	0.00914	0.0090	98	40-150
375-92-8	Perfluoroheptanesulfonic acid	0.00953	0.0093	98	40-150
1763-23-1	Perfluorooctanesulfonic acid	0.00928	0.0093	100	40-150
68259-12-1	Perfluorononanesulfonic acid	0.00962	0.0084	87	40-150
335-77-3	Perfluorodecanesulfonic acid	0.00965	0.0084	87	40-150
79780-39-5	Perfluorododecanesulfonic aci	0.0097	0.0090	93	40-150
757124-72-4	4:2 Fluorotelomer sulfonate	0.0375	0.0378	101	40-150
27619-97-2	6:2 Fluorotelomer sulfonate	0.038	0.0351	92	40-150
39108-34-4	8:2 Fluorotelomer sulfonate	0.0384	0.0409	107	40-150
754-91-6	PFOSA	0.01	0.0095	95	40-150
31506-32-8	MeFOSA	0.01	0.0099	99	40-150
4151-50-2	EtFOSA	0.01	0.0097	97	40-150
2355-31-9	MeFOSAA	0.01	0.0093	93	40-150
2991-50-6	EtFOSAA	0.01	0.0102	102	40-150
24448-09-7	MeFOSE	0.1	0.100	100	40-150
1691-99-2	EtFOSE	0.1	0.0982	98	40-150
13252-13-6	HFPO-DA (GenX)	0.04	0.0366	92	40-150
919005-14-4	ADONA	0.0378	0.0375	99	40-150
377-73-1	PFMPA	0.02	0.0193	97	40-150
863090-89-5	PFMBA	0.02	0.0184	92	40-150
151772-58-6	NFDHA	0.02	0.0204	102	40-150
756426-58-1	9Cl-PF3ONS (F-53B Major)	0.0374	0.0356	95	40-150
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	0.0378	0.0366	97	40-150

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FC3825
Account: AECOMCOD AECOM, INC.
Project: N6274223F0104 RH Fire Suppression System

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP96191-LLBS	6Q16147.D	1	04/05/23	MV	03/31/23	OP96191	S6Q240

The QC reported here applies to the following samples: **Method:** EPA DRAFT 1633

FC3825-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
113507-82-7	PFEESA	0.0178	0.0189	106	40-150
356-02-5	3:3 Fluorotelomer carboxylate	0.05	0.0329	66	40-150
914637-49-3	5:3 Fluorotelomer carboxylate	0.25	0.232	93	40-150
812-70-4	7:3 Fluorotelomer carboxylate	0.25	0.246	98	40-150

CAS No.	ID Standard Recoveries	BSP	Limits
	13C4-PFBA	103%	20-150%
	13C5-PFPeA	102%	20-150%
	13C5-PFHxA	101%	20-150%
	13C4-PFHpA	105%	20-150%
	13C8-PFOA	100%	20-150%
	13C9-PFNA	97%	20-150%
	13C6-PFDA	98%	20-150%
	13C7-PFUnDA	111%	20-150%
	13C2-PFDoDA	90%	20-150%
	13C2-PFTeDA	86%	20-150%
	13C3-PFBS	89%	20-150%
	13C3-PFHxS	95%	20-150%
	13C8-PFOS	98%	20-150%
	13C8-FOSA	73%	20-150%
	d3-MeFOSA	74%	20-150%
	d5-EtFOSA	78%	20-150%
	d3-MeFOSAA	97%	20-150%
	d5-EtFOSAA	95%	20-150%
	d7-MeFOSE	61%	20-150%
	d9-EtFOSE	71%	20-150%
	13C2-4:2FTS	109%	20-150%
	13C2-6:2FTS	109%	20-150%
	13C2-8:2FTS	93%	20-150%
	13C3-HFPO-DA	99%	20-150%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FC3825
Account: AECOMCOD AECOM, INC.
Project: N6274223F0104 RH Fire Suppression System

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP96191-BS	6Q16146.D	1	04/05/23	MV	03/31/23	OP96191	S6Q240

The QC reported here applies to the following samples: **Method:** EPA DRAFT 1633

FC3825-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
375-22-4	Perfluorobutanoic acid	0.1	0.0981	98	40-150
2706-90-3	Perfluoropentanoic acid	0.05	0.0514	103	40-150
307-24-4	Perfluorohexanoic acid	0.025	0.0249	100	40-150
375-85-9	Perfluoroheptanoic acid	0.025	0.0264	106	40-150
335-67-1	Perfluorooctanoic acid	0.025	0.0249	100	40-150
375-95-1	Perfluorononanoic acid	0.025	0.0268	107	40-150
335-76-2	Perfluorodecanoic acid	0.025	0.0257	103	40-150
2058-94-8	Perfluoroundecanoic acid	0.025	0.0252	101	40-150
307-55-1	Perfluorododecanoic acid	0.025	0.0251	100	40-150
72629-94-8	Perfluorotridecanoic acid	0.025	0.0246	98	40-150
376-06-7	Perfluorotetradecanoic acid	0.025	0.0240	96	40-150
375-73-5	Perfluorobutanesulfonic acid	0.0222	0.0237	107	40-150
2706-91-4	Perfluoropentanesulfonic acid	0.0235	0.0233	99	40-150
355-46-4	Perfluorohexanesulfonic acid	0.0229	0.0225	98	40-150
375-92-8	Perfluoroheptanesulfonic acid	0.0238	0.0225	94	40-150
1763-23-1	Perfluorooctanesulfonic acid	0.0232	0.0214	92	40-150
68259-12-1	Perfluorononanesulfonic acid	0.0241	0.0231	96	40-150
335-77-3	Perfluorodecanesulfonic acid	0.0241	0.0214	89	40-150
79780-39-5	Perfluorododecanesulfonic aci	0.0243	0.0203	84	40-150
757124-72-4	4:2 Fluorotelomer sulfonate	0.0938	0.0965	103	40-150
27619-97-2	6:2 Fluorotelomer sulfonate	0.095	0.101	106	40-150
39108-34-4	8:2 Fluorotelomer sulfonate	0.096	0.100	104	40-150
754-91-6	PFOSA	0.025	0.0252	101	40-150
31506-32-8	MeFOSA	0.025	0.0258	103	40-150
4151-50-2	EtFOSA	0.025	0.0274	110	40-150
2355-31-9	MeFOSAA	0.025	0.0233	93	40-150
2991-50-6	EtFOSAA	0.025	0.0244	98	40-150
24448-09-7	MeFOSE	0.25	0.266	106	40-150
1691-99-2	EtFOSE	0.25	0.230	92	40-150
13252-13-6	HFPO-DA (GenX)	0.1	0.100	100	40-150
919005-14-4	ADONA	0.0945	0.105	111	40-150
377-73-1	PFMPA	0.05	0.0305	61	40-150
863090-89-5	PFMBA	0.05	0.0482	96	40-150
151772-58-6	NFDHA	0.05	0.0532	106	40-150
756426-58-1	9Cl-PF3ONS (F-53B Major)	0.0935	0.102	109	40-150
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	0.0945	0.0914	97	40-150

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FC3825
Account: AECOMCOD AECOM, INC.
Project: N6274223F0104 RH Fire Suppression System

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP96191-BS	6Q16146.D	1	04/05/23	MV	03/31/23	OP96191	S6Q240

The QC reported here applies to the following samples: **Method:** EPA DRAFT 1633

FC3825-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
113507-82-7	PFEESA	0.0445	0.0496	111	40-150
356-02-5	3:3 Fluorotelomer carboxylate	0.125	0.0525	42	40-150
914637-49-3	5:3 Fluorotelomer carboxylate	0.625	0.577	92	40-150
812-70-4	7:3 Fluorotelomer carboxylate	0.625	0.594	95	40-150

CAS No.	ID Standard Recoveries	BSP	Limits
	13C4-PFBA	34%	20-150%
	13C5-PFPeA	100%	20-150%
	13C5-PFHxA	103%	20-150%
	13C4-PFHpA	105%	20-150%
	13C8-PFOA	106%	20-150%
	13C9-PFNA	106%	20-150%
	13C6-PFDA	95%	20-150%
	13C7-PFUnDA	98%	20-150%
	13C2-PFDoDA	87%	20-150%
	13C2-PFTeDA	76%	20-150%
	13C3-PFBS	97%	20-150%
	13C3-PFHxS	101%	20-150%
	13C8-PFOS	116%	20-150%
	13C8-FOSA	77%	20-150%
	d3-MeFOSA	80%	20-150%
	d5-EtFOSA	75%	20-150%
	d3-MeFOSAA	112%	20-150%
	d5-EtFOSAA	111%	20-150%
	d7-MeFOSE	56%	20-150%
	d9-EtFOSE	67%	20-150%
	13C2-4:2FTS	114%	20-150%
	13C2-6:2FTS	109%	20-150%
	13C2-8:2FTS	106%	20-150%
	13C3-HFPO-DA	96%	20-150%

* = Outside of Control Limits.

Matrix Spike Summary

Job Number: FC3825
Account: AECOMCOD AECOM, INC.
Project: N6274223F0104 RH Fire Suppression System

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP96191-MS	6Q16150.D	1	04/06/23	MV	03/31/23	OP96191	S6Q240
FC3825-1	6Q16149.D	1	04/06/23	MV	03/31/23	OP96191	S6Q240

The QC reported here applies to the following samples: **Method:** EPA DRAFT 1633

FC3825-1

CAS No.	Compound	FC3825-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Limits
375-22-4	Perfluorobutanoic acid	0.019	U	0.0943	0.0925	98	40-150
2706-90-3	Perfluoropentanoic acid	0.0014	J	0.0472	0.0487	100	40-150
307-24-4	Perfluorohexanoic acid	0.0011	J	0.0236	0.0251	102	40-150
375-85-9	Perfluoroheptanoic acid	0.00092	J	0.0236	0.0253	103	40-150
335-67-1	Perfluorooctanoic acid	0.0013	J	0.0236	0.0251	101	40-150
375-95-1	Perfluorononanoic acid	0.0047	U	0.0236	0.0239	101	40-150
335-76-2	Perfluorodecanoic acid	0.0047	U	0.0236	0.0245	104	40-150
2058-94-8	Perfluoroundecanoic acid	0.0047	U	0.0236	0.0225	95	40-150
307-55-1	Perfluorododecanoic acid	0.0047	U	0.0236	0.0256	109	40-150
72629-94-8	Perfluorotridecanoic acid	0.0047	U	0.0236	0.0252	107	40-150
376-06-7	Perfluorotetradecanoic acid	0.0047	U	0.0236	0.0241	102	40-150
375-73-5	Perfluorobutanesulfonic acid	0.00075	J	0.0209	0.0221	102	40-150
2706-91-4	Perfluoropentanesulfonic acid	0.0047	U	0.0222	0.0228	103	40-150
355-46-4	Perfluorohexanesulfonic acid	0.0012	J	0.0216	0.0224	98	40-150
375-92-8	Perfluoroheptanesulfonic acid	0.0047	U	0.0225	0.0225	100	40-150
1763-23-1	Perfluorooctanesulfonic acid	0.0016	J	0.0219	0.0231	98	40-150
68259-12-1	Perfluorononanesulfonic acid	0.0047	U	0.0227	0.0211	93	40-150
335-77-3	Perfluorodecanesulfonic acid	0.0047	U	0.0228	0.0205	90	40-150
79780-39-5	Perfluorododecanesulfonic aci	0.0047	U	0.0229	0.0184	80	40-150
757124-72-4	4:2 Fluorotelomer sulfonate	0.019	U	0.0884	0.0908	103	40-150
27619-97-2	6:2 Fluorotelomer sulfonate	0.019	U	0.0896	0.0968	108	40-150
39108-34-4	8:2 Fluorotelomer sulfonate	0.019	U	0.0906	0.0982	108	40-150
754-91-6	PFOSA	0.0047	U	0.0236	0.0238	101	40-150
31506-32-8	MeFOSA	0.0047	U	0.0236	0.0249	106	40-150
4151-50-2	EtFOSA	0.0047	U	0.0236	0.0261	111	40-150
2355-31-9	MeFOSAA	0.0047	U	0.0236	0.0251	106	40-150
2991-50-6	EtFOSAA	0.0047	U	0.0236	0.0229	97	40-150
24448-09-7	MeFOSE	0.047	U	0.236	0.261	111	40-150
1691-99-2	EtFOSE	0.047	U	0.236	0.246	104	40-150
13252-13-6	HFPO-DA (GenX)	0.019	U	0.0943	0.0877	93	40-150
919005-14-4	ADONA	0.019	U	0.0892	0.0897	101	40-150
377-73-1	PFMPA	0.0094	U	0.0472	0.0460	98	40-150
863090-89-5	PFMBA	0.0094	U	0.0472	0.0439	93	40-150
151772-58-6	NFDHA	0.0094	U	0.0472	0.0483	102	40-150
756426-58-1	9Cl-PF3ONS (F-53B Major)	0.019	U	0.0882	0.0813	92	40-150
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	0.019	U	0.0892	0.0718	81	40-150

* = Outside of Control Limits.

Matrix Spike Summary

Job Number: FC3825
Account: AECOMCOD AECOM, INC.
Project: N6274223F0104 RH Fire Suppression System

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP96191-MS	6Q16150.D	1	04/06/23	MV	03/31/23	OP96191	S6Q240
FC3825-1	6Q16149.D	1	04/06/23	MV	03/31/23	OP96191	S6Q240

The QC reported here applies to the following samples: **Method:** EPA DRAFT 1633

FC3825-1

CAS No.	Compound	FC3825-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Limits
113507-82-7	PFEESA	0.0094	U	0.042	0.0433	103	40-150
356-02-5	3:3 Fluorotelomer carboxylate	0.024	U	0.118	0.0835	71	40-150
914637-49-3	5:3 Fluorotelomer carboxylate	0.12	U	0.59	0.529	90	40-150
812-70-4	7:3 Fluorotelomer carboxylate	0.12	U	0.59	0.562	95	40-150

CAS No.	ID Standard Recoveries	MS	FC3825-1	Limits
	13C4-PFBA	99%	103%	20-150%
	13C5-PFPeA	107%	106%	20-150%
	13C5-PFHxA	107%	114%	20-150%
	13C4-PFHpA	105%	106%	20-150%
	13C8-PFOA	103%	101%	20-150%
	13C9-PFNA	107%	92%	20-150%
	13C6-PFDA	110%	102%	20-150%
	13C7-PFUnDA	108%	100%	20-150%
	13C2-PFDoDA	85%	86%	20-150%
	13C2-PFTeDA	75%	76%	20-150%
	13C3-PFBS	99%	97%	20-150%
	13C3-PFHxS	100%	96%	20-150%
	13C8-PFOS	113%	101%	20-150%
	13C8-FOSA	90%	81%	20-150%
	d3-MeFOSA	80%	74%	20-150%
	d5-EtFOSA	75%	77%	20-150%
	d3-MeFOSAA	109%	107%	20-150%
	d5-EtFOSAA	107%	101%	20-150%
	d7-MeFOSE	66%	66%	20-150%
	d9-EtFOSE	71%	75%	20-150%
	13C2-4:2FTS	109%	115%	20-150%
	13C2-6:2FTS	109%	108%	20-150%
	13C2-8:2FTS	99%	94%	20-150%
	13C3-HFPO-DA	105%	100%	20-150%

* = Outside of Control Limits.