

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: FC7490**

**Sampling Date: 07/03/23**



### 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: 34**



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.

**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: FC7490

N6274223F0104 RH Fire Suppression System  
Project No: 60697810

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
FC7490-1	07/03/23	14:15	HN	07/05/23	AQ Ground Water	AF-RHMW225401-WGN01B-2307

## SAMPLE DELIVERY GROUP CASE NARRATIVE

**Client:** AECOM, INC.

**Job No:** FC7490

**Site:** N6274223F0104 RH Fire Suppression System

**Report Date:** 7/17/2023 4:50:34 PM

On 07/05/2023, 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 4.4 C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. - Orlando Job Number of FC7490 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:** OP97799

Sample(s) FC7583-3MS, FC7583-4DUP were used as the QC samples indicated.

RPD(s) for Duplicate for Perfluorodecanoic acid, Perfluorononanoic acid are outside control limits for sample OP97799-DUP. Probable cause is due to sample non-homogeneity.

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:** FC7490  
**Account:** AECOM, INC.  
**Project:** N6274223F0104 RH Fire Suppression System  
**Collected:** 07/03/23



Lab Sample ID	Client Sample ID	Result/ Qual	LOQ	LOD	Units	Method
---------------	------------------	-----------------	-----	-----	-------	--------

FC7490-1      AF-RHMW225401-WGN01B-2307

Perfluorohexanoic acid	0.91 J	3.8	1.9	ng/l	EPA DRAFT 1633
Perfluoroheptanoic acid	0.68 J	3.8	1.9	ng/l	EPA DRAFT 1633
Perfluorooctanoic acid	0.97 J	3.8	0.96	ng/l	EPA DRAFT 1633
Perfluorobutanesulfonic acid	0.58 J	3.8	1.9	ng/l	EPA DRAFT 1633
Perfluorohexanesulfonic acid	1.1 J	3.8	1.9	ng/l	EPA DRAFT 1633
Perfluorooctanesulfonic acid	0.99 J	3.8	1.9	ng/l	EPA DRAFT 1633

**Sample Results**

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**Report of Analysis**

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# Report of Analysis

Client Sample ID:	AF-RHMW225401-WGN01B-2307		
Lab Sample ID:	FC7490-1	Date Sampled:	07/03/23
Matrix:	AQ - Ground Water	Date Received:	07/05/23
Method:	EPA DRAFT 1633 EPA 1633 DRAFT	Percent Solids:	n/a
Project:	N6274223F0104 RH Fire Suppression System		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	6Q20923.D	1	07/13/23 18:06	MV	07/12/23 11:45	OP97799	S6Q310
Run #2							

Run #	Initial Volume	Final Volume
Run #1	520 ml	5.0 ml
Run #2		

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
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**PERFLUOROALKYL CARBOXYLIC ACIDS**

375-22-4	Perfluorobutanoic acid	3.8 U	15	3.8	1.8	ng/l	
2706-90-3	Perfluoropentanoic acid	1.9 U	7.7	1.9	0.90	ng/l	
307-24-4	Perfluorohexanoic acid	0.91	3.8	1.9	0.48	ng/l	J
375-85-9	Perfluoroheptanoic acid	0.68	3.8	1.9	0.48	ng/l	J
335-67-1	Perfluorooctanoic acid	0.97	3.8	0.96	0.48	ng/l	J
375-95-1	Perfluorononanoic acid	1.9 U	3.8	1.9	0.59	ng/l	
335-76-2	Perfluorodecanoic acid	1.9 U	3.8	1.9	0.48	ng/l	
2058-94-8	Perfluoroundecanoic acid	1.9 U	3.8	1.9	0.58	ng/l	
307-55-1	Perfluorododecanoic acid	1.9 U	3.8	1.9	0.58	ng/l	
72629-94-8	Perfluorotridecanoic acid	1.9 U	3.8	1.9	0.81	ng/l	
376-06-7	Perfluorotetradecanoic acid	1.9 U	3.8	1.9	0.48	ng/l	

**PERFLUOROALKYL SULFONIC ACIDS**

375-73-5	Perfluorobutanesulfonic acid	0.58	3.8	1.9	0.48	ng/l	J
2706-91-4	Perfluoropentanesulfonic acid	3.8 U	4.8	3.8	1.1	ng/l	
355-46-4	Perfluorohexanesulfonic acid	1.1	3.8	1.9	0.67	ng/l	J
375-92-8	Perfluoroheptanesulfonic acid	1.9 U	3.8	1.9	0.48	ng/l	
1763-23-1	Perfluorooctanesulfonic acid	0.99	3.8	1.9	0.52	ng/l	J
68259-12-1	Perfluorononanesulfonic acid	1.9 U	3.8	1.9	0.55	ng/l	
335-77-3	Perfluorodecanesulfonic acid	1.9 U	3.8	1.9	0.62	ng/l	
79780-39-5	Perfluorododecanesulfonic aci	3.8 U	4.8	3.8	1.1	ng/l	

**FLUOROTELOMER SULFONIC ACIDS**

757124-72-4	4:2 Fluorotelomer sulfonate	7.7 U	19	7.7	3.1	ng/l	
27619-97-2	6:2 Fluorotelomer sulfonate	7.7 U	19	7.7	3.3	ng/l	
39108-34-4	8:2 Fluorotelomer sulfonate	7.7 U	19	7.7	4.0	ng/l	

**PERFLUOROOCCTANE SULFONAMIDES**

754-91-6	PFOSA	1.9 U	3.8	1.9	0.64	ng/l	
31506-32-8	MeFOSA	3.8 U	7.7	3.8	0.96	ng/l	
4151-50-2	EtFOSA	3.8 U	7.7	3.8	0.96	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-2307		
Lab Sample ID:	FC7490-1	Date Sampled:	07/03/23
Matrix:	AQ - Ground Water	Date Received:	07/05/23
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
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**PERFLUOROOCCTANE SULFONAMIDOACETIC ACIDS**

2355-31-9	MeFOSAA	3.8 U	4.8	3.8	0.96	ng/l	
2991-50-6	EtFOSAA	3.8 U	4.8	3.8	1.3	ng/l	

**PERFLUOROOCCTANE SULFONAMIDO ETHANOLS**

24448-09-7	MeFOSE	19 U	38	19	4.2	ng/l	
1691-99-2	EtFOSE	19 U	38	19	7.1	ng/l	

**PER and POLYFLUOROETHER CARBOXYLIC ACIDS**

13252-13-6	HFPO-DA (GenX)	1.9 U	3.8	1.9	0.96	ng/l	
919005-14-4	ADONA	3.8 U	7.7	3.8	1.8	ng/l	
377-73-1	PFMPA	1.9 U	7.7	1.9	0.96	ng/l	
863090-89-5	PFMBA	3.8 U	7.7	3.8	1.1	ng/l	
151772-58-6	NFDHA	3.8 U	7.7	3.8	1.2	ng/l	

**PER and POLYFLUOROETHER SULFONIC ACIDS**

756426-58-1	9Cl-PF3ONS (F-53B Major)	3.8 U	7.7	3.8	1.3	ng/l	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	3.8 U	7.7	3.8	1.7	ng/l	
113507-82-7	PFEESA	1.9 U	7.7	1.9	0.75	ng/l	

**FLUOROTELOMER CARBOXYLIC ACIDS**

356-02-5	3:3 Fluorotelomer carboxylate	9.6 U	19	9.6	4.3	ng/l	
914637-49-3	5:3 Fluorotelomer carboxylate	19 U	96	19	8.4	ng/l	
812-70-4	7:3 Fluorotelomer carboxylate	19 U	96	19	7.5	ng/l	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
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	13C4-PFBA	108%		20-150%
	13C5-PFPeA	113%		20-150%
	13C5-PFHxA	113%		20-150%
	13C4-PFHpA	113%		20-150%
	13C8-PFOA	119%		20-150%
	13C9-PFNA	110%		20-150%
	13C6-PFDA	128%		20-150%
	13C7-PFUnDA	126%		20-150%
	13C2-PFDoDA	106%		20-150%
	13C2-PFTeDA	100%		20-150%
	13C3-PFBS	122%		20-150%
	13C3-PFHxS	107%		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

<b>Client Sample ID:</b>	AF-RHMW225401-WGN01B-2307	
<b>Lab Sample ID:</b>	FC7490-1	<b>Date Sampled:</b> 07/03/23
<b>Matrix:</b>	AQ - Ground Water	<b>Date Received:</b> 07/05/23
<b>Method:</b>	EPA DRAFT 1633 EPA 1633 DRAFT	<b>Percent Solids:</b> n/a
<b>Project:</b>	N6274223F0104 RH Fire Suppression System	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C8-PFOS	112%		20-150%
	13C8-FOSA	92%		20-150%
	d3-MeFOSA	81%		20-150%
	d5-EtFOSA	92%		20-150%
	d3-MeFOSAA	115%		20-150%
	d5-EtFOSAA	113%		20-150%
	d7-MeFOSE	81%		20-150%
	d9-EtFOSE	98%		20-150%
	13C2-4:2FTS	141%		20-180%
	13C2-6:2FTS	129%		20-180%
	13C2-8:2FTS	131%		20-180%
	13C3-HFPO-DA	107%		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

**Misc. Forms**

**Custody Documents and Other Forms**

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**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

**FC7490**

COC #: 2307AFSG07

SGS - ORLANDO JOB #

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Client / Reporting Information		Project Information				Analytical Information										Matrix Codes	
Company Name: AECOM		Project Name: N6274223F0104 RH Fire Suppression System				<div style="border: 1px solid black; padding: 5px;"> <p>PFAS EPA Draft 1633</p> <p>07/03/23</p> </div>										DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL - Sludge OL - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Wipe	
Address: 1001 Bishop St. ste 1600		Street															
City: Honolulu State: HI Zip: 96813		City Honolulu State Hawaii															
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		Project # 60697810 Fax #															
Sampler(s) Name(s) (Printed) Sampler 1: <u>E. Womak</u> Sampler 2: <u>H. M. Kikawa</u>		Client Purchase Order #															
SGS Orlando Sample #	Field ID / Point of Collection	COLLECTION			CONTAINER INFORMATION										LAB USE ONLY		
		DATE	TIME	SAMPLED BY	MATRIX	TOTAL # OF BOTTLES	OTHER	NDRE	HCl	NH3	HNO3	H2SO4	NACH2ZAC	D.WATER		MECH	
1	AF-RHMW225401-WGN01B-2307	7/3/23	1415	HN	GW	3		X									X
<div style="display: flex; justify-content: space-between;"> <div style="text-align: center;"> <p>7/3/2023</p> <p><i>[Signature]</i></p> </div> <div style="text-align: center;"> <p>INITIAL ASSESSMENT</p> <p>LABEL VERIFICATION <i>SP</i></p> </div> </div>																	
Turnaround Time ( Business days)				Data Deliverable Information				Comments / Remarks									
10 Day (Business) Approved By: / Date: 7 Day <input checked="" type="checkbox"/> 5 Day 3 Day RUSH 2 Day RUSH 1 Day RUSH Other				<input type="checkbox"/> COMMERCIAL "A" (RESULTS ONLY) <input type="checkbox"/> COMMERCIAL "B" (RESULTS PLUS QC) <input type="checkbox"/> REDT1 (EPA LEVEL 3) <input checked="" type="checkbox"/> FULLT1 (EPA LEVEL 4) <input checked="" type="checkbox"/> EDD'S				EDMS upload database: JBPHE EDMS Coverage: AFFF Assessment Sampling GW <b>AIRWAY BILL UNITED:</b> <b>016-96832924</b>									
Rush T/A Data Available VIA Email or Lablink																	
Sample Custody must be documented below each time samples change possession, including courier delivery.																	
Relinquished by Sampler/Affiliation		Date Time:		Received By/Affiliation		Date Time:		Relinquished By/Affiliation		Date Time:		Received By/Affiliation					
1 J. Stone / AECOM		7/3/23 11:50		2 GABRIEL RIVERA / AECOM		7/3/23 16:55		3 GABRIEL RIVERA / AECOM		7/3/23 16:55		4 [Signature] / AECOM		7/5/23 8:00			
5				6				7				8					

PFAS\_COCs\_ALL\_07032023.xls Rev 031318

4.6 FR #1

FC7490: Chain of Custody

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## SGS Sample Receipt Summary

Job Number: FC7490

Client: AECOM

Project: N6274223F0104 RH Fire Suppression System

Date / Time Received: 7/5/2023 10:00:00 AM

Delivery Method: United Cargo/Airspace

Airbill #'s: United Cargo AWB #: 016-96332924

Therm ID: IR 1;

Therm CF: -0.2;

# of Coolers: 1

Cooler Temps (Raw Measured) °C: Cooler 1: (4.6);

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 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 \_\_\_\_\_

Other: (Specify) pH 1.0 - 12.0 222221

Residual Chlorine Test Strip Lot #: \_\_\_\_\_

Comments

SM001  
Rev. Date 05/24/17

Technician: NATHANS

Date: 7/5/2023 10:00:00 AM

Reviewer: CD

Date: 7/9/2023

FC7490: Chain of Custody

Page 2 of 2

# QC Evaluation: DOD QSM5.x Limits

**Job Number:** FC7490  
**Account:** AECOM, INC.  
**Project:** N6274223F0104 RH Fire Suppression System  
**Collected:** 07/03/23

QC Sample ID	CAS#	Analyte	Sample Result Type	Result Type	Units	Limits
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No DOD QSM5.x Limits found for methods in this job.

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\* Sample used for QC is not from job FC7490

5.2  
5

## MS Semi-volatiles

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### QC Data Summaries

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#### Includes the following where applicable:

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

# Instrument Blank

Job Number: FC7490  
Account: AECOMCOD AECOM, INC.  
Project: N6274223F0104 RH Fire Suppression System

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
S6Q310-IBLK	6Q20892.D	1	07/13/23	MV	n/a	n/a	S6Q310

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

FC7490-1

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: FC7490  
 Account: AECOMCOD AECOM, INC.  
 Project: N6274223F0104 RH Fire Suppression System

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
S6Q310-IBLK	6Q20892.D	1	07/13/23	MV	n/a	n/a	S6Q310

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

FC7490-1

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	101% 20-150%
	13C5-PFHxA	96% 20-150%
	13C4-PFHpA	98% 20-150%
	13C8-PFOA	97% 20-150%
	13C9-PFNA	97% 20-150%
	13C6-PFDA	92% 20-150%
	13C7-PFUnDA	108% 20-150%
	13C2-PFDoDA	93% 20-150%
	13C2-PFTeDA	99% 20-150%
	13C3-PFBS	99% 20-150%
	13C3-PFHxS	104% 20-150%
	13C8-PFOS	104% 20-150%
	13C8-FOSA	104% 20-150%
	d3-MeFOSA	93% 20-150%
	d5-EtFOSA	99% 20-150%
	d3-MeFOSAA	104% 20-150%
	d5-EtFOSAA	105% 20-150%
	d7-MeFOSE	98% 20-150%
	d9-EtFOSE	104% 20-150%
	13C2-4:2FTS	112% 20-180%
	13C2-6:2FTS	105% 20-180%
	13C2-8:2FTS	114% 20-180%
	13C3-HFPO-DA	93% 20-150%



# Instrument Blank

Job Number: FC7490  
Account: AECOMCOD AECOM, INC.  
Project: N6274223F0104 RH Fire Suppression System

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
S6Q310-IBLK	6Q20984.D	1	07/14/23	MV	n/a	n/a	S6Q310

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

FC7490-1

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: FC7490  
 Account: AECOMCOD AECOM, INC.  
 Project: N6274223F0104 RH Fire Suppression System

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
S6Q310-IBLK	6Q20984.D	1	07/14/23	MV	n/a	n/a	S6Q310

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

FC7490-1

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	102% 20-150%
	13C5-PFHxA	98% 20-150%
	13C4-PFHpA	106% 20-150%
	13C8-PFOA	92% 20-150%
	13C9-PFNA	99% 20-150%
	13C6-PFDA	102% 20-150%
	13C7-PFUnDA	100% 20-150%
	13C2-PFDoDA	90% 20-150%
	13C2-PFTeDA	100% 20-150%
	13C3-PFBS	100% 20-150%
	13C3-PFHxS	104% 20-150%
	13C8-PFOS	112% 20-150%
	13C8-FOSA	112% 20-150%
	d3-MeFOSA	107% 20-150%
	d5-EtFOSA	116% 20-150%
	d3-MeFOSAA	115% 20-150%
	d5-EtFOSAA	113% 20-150%
	d7-MeFOSE	110% 20-150%
	d9-EtFOSE	124% 20-150%
	13C2-4:2FTS	121% 20-180%
	13C2-6:2FTS	120% 20-180%
	13C2-8:2FTS	129% 20-180%
	13C3-HFPO-DA	91% 20-150%

# Continuing Calibration Blank

Job Number: FC7490  
 Account: AECOMCOD AECOM, INC.  
 Project: N6274223F0104 RH Fire Suppression System

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
S6Q310-ICCB	6Q20918.D	1	07/13/23	MV	n/a	n/a	S6Q310

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

FC7490-1

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: FC7490  
 Account: AECOMCOD AECOM, INC.  
 Project: N6274223F0104 RH Fire Suppression System

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
S6Q310-ICCB	6Q20918.D	1	07/13/23	MV	n/a	n/a	S6Q310

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

FC7490-1

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	100% 20-150%
	13C5-PFHxA	97% 20-150%
	13C4-PFHpA	95% 20-150%
	13C8-PFOA	96% 20-150%
	13C9-PFNA	110% 20-150%
	13C6-PFDA	97% 20-150%
	13C7-PFUnDA	108% 20-150%
	13C2-PFDoDA	93% 20-150%
	13C2-PFTeDA	99% 20-150%
	13C3-PFBS	96% 20-150%
	13C3-PFHxS	111% 20-150%
	13C8-PFOS	96% 20-150%
	13C8-FOSA	103% 20-150%
	d3-MeFOSA	96% 20-150%
	d5-EtFOSA	99% 20-150%
	d3-MeFOSAA	107% 20-150%
	d5-EtFOSAA	111% 20-150%
	d7-MeFOSE	99% 20-150%
	d9-EtFOSE	112% 20-150%
	13C2-4:2FTS	122% 20-180%
	13C2-6:2FTS	119% 20-180%
	13C2-8:2FTS	119% 20-180%
	13C3-HFPO-DA	92% 20-150%

# Method Blank Summary

Job Number: FC7490  
 Account: AECOMCOD AECOM, INC.  
 Project: N6274223F0104 RH Fire Suppression System

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP97799-MB	6Q20912.D	1	07/13/23	MV	07/12/23	OP97799	S6Q310

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

FC7490-1

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	

# Method Blank Summary

Job Number: FC7490  
 Account: AECOMCOD AECOM, INC.  
 Project: N6274223F0104 RH Fire Suppression System

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP97799-MB	6Q20912.D	1	07/13/23	MV	07/12/23	OP97799	S6Q310

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

FC7490-1

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	115% 20-150%
	13C5-PFPeA	114% 20-150%
	13C5-PFHxA	118% 20-150%
	13C4-PFHpA	118% 20-150%
	13C8-PFOA	112% 20-150%
	13C9-PFNA	114% 20-150%
	13C6-PFDA	124% 20-150%
	13C7-PFUnDA	119% 20-150%
	13C2-PFDoDA	109% 20-150%
	13C2-PFTeDA	110% 20-150%
	13C3-PFBS	117% 20-150%
	13C3-PFHxS	114% 20-150%
	13C8-PFOS	123% 20-150%
	13C8-FOSA	78% 20-150%
	d3-MeFOSA	77% 20-150%
	d5-EtFOSA	83% 20-150%
	d3-MeFOSAA	128% 20-150%
	d5-EtFOSAA	120% 20-150%
	d7-MeFOSE	69% 20-150%
	d9-EtFOSE	90% 20-150%
	13C2-4:2FTS	132% 20-180%
	13C2-6:2FTS	129% 20-180%
	13C2-8:2FTS	136% 20-180%
	13C3-HFPO-DA	106% 20-150%

# Continuing Calibration Blank

Job Number: FC7490  
 Account: AECOMCOD AECOM, INC.  
 Project: N6274223F0104 RH Fire Suppression System

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
S6Q310-ICCB	6Q20906.D	1	07/13/23	MV	n/a	n/a	S6Q310

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

OP97799-BS, OP97799-LLBS, OP97799-MB, OP97799-MS

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: FC7490  
 Account: AECOMCOD AECOM, INC.  
 Project: N6274223F0104 RH Fire Suppression System

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
S6Q310-ICCB	6Q20906.D	1	07/13/23	MV	n/a	n/a	S6Q310

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

OP97799-BS, OP97799-LLBS, OP97799-MB, OP97799-MS

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	100%	20-150%
	13C5-PFPeA	105%	20-150%
	13C5-PFHxA	103%	20-150%
	13C4-PFHpA	105%	20-150%
	13C8-PFOA	105%	20-150%
	13C9-PFNA	102%	20-150%
	13C6-PFDA	106%	20-150%
	13C7-PFUnDA	117%	20-150%
	13C2-PFDoDA	98%	20-150%
	13C2-PFTeDA	104%	20-150%
	13C3-PFBS	103%	20-150%
	13C3-PFHxS	99%	20-150%
	13C8-PFOS	97%	20-150%
	13C8-FOSA	108%	20-150%
	d3-MeFOSA	94%	20-150%
	d5-EtFOSA	109%	20-150%
	d3-MeFOSAA	103%	20-150%
	d5-EtFOSAA	108%	20-150%
	d7-MeFOSE	100%	20-150%
	d9-EtFOSE	116%	20-150%
	13C2-4:2FTS	113%	20-180%
	13C2-6:2FTS	114%	20-180%
	13C2-8:2FTS	124%	20-180%
	13C3-HFPO-DA	100%	20-150%



# Continuing Calibration Blank

Job Number: FC7490  
 Account: AECOMCOD AECOM, INC.  
 Project: N6274223F0104 RH Fire Suppression System

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
S6Q310-ICCB	6Q20978.D	1	07/14/23	MV	n/a	n/a	S6Q310

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

S6Q310-IBLK

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: FC7490  
 Account: AECOMCOD AECOM, INC.  
 Project: N6274223F0104 RH Fire Suppression System

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
S6Q310-ICCB	6Q20978.D	1	07/14/23	MV	n/a	n/a	S6Q310

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

S6Q310-IBLK

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	99% 20-150%
	13C5-PFHxA	102% 20-150%
	13C4-PFHpA	96% 20-150%
	13C8-PFOA	105% 20-150%
	13C9-PFNA	84% 20-150%
	13C6-PFDA	97% 20-150%
	13C7-PFUnDA	106% 20-150%
	13C2-PFDoDA	91% 20-150%
	13C2-PFTeDA	97% 20-150%
	13C3-PFBS	101% 20-150%
	13C3-PFHxS	107% 20-150%
	13C8-PFOS	108% 20-150%
	13C8-FOSA	115% 20-150%
	d3-MeFOSA	103% 20-150%
	d5-EtFOSA	112% 20-150%
	d3-MeFOSAA	106% 20-150%
	d5-EtFOSAA	116% 20-150%
	d7-MeFOSE	103% 20-150%
	d9-EtFOSE	116% 20-150%
	13C2-4:2FTS	121% 20-180%
	13C2-6:2FTS	119% 20-180%
	13C2-8:2FTS	129% 20-180%
	13C3-HFPO-DA	95% 20-150%

# Blank Spike Summary

Job Number: FC7490  
 Account: AECOMCOD AECOM, INC.  
 Project: N6274223F0104 RH Fire Suppression System

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP97799-LLBS	6Q20911.D	1	07/13/23	MV	07/12/23	OP97799	S6Q310

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

FC7490-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
375-22-4	Perfluorobutanoic acid	0.03	0.0248	83	40-150
2706-90-3	Perfluoropentanoic acid	0.015	0.0124	83	40-150
307-24-4	Perfluorohexanoic acid	0.0075	0.0065	87	40-150
375-85-9	Perfluoroheptanoic acid	0.0075	0.0058	77	40-150
335-67-1	Perfluorooctanoic acid	0.0075	0.0063	84	40-150
375-95-1	Perfluorononanoic acid	0.0075	0.0062	83	40-150
335-76-2	Perfluorodecanoic acid	0.0075	0.0059	79	40-150
2058-94-8	Perfluoroundecanoic acid	0.0075	0.0058	77	40-150
307-55-1	Perfluorododecanoic acid	0.0075	0.0062	83	40-150
72629-94-8	Perfluorotridecanoic acid	0.0075	0.0063	84	40-150
376-06-7	Perfluorotetradecanoic acid	0.0075	0.0061	81	40-150
375-73-5	Perfluorobutanesulfonic acid	0.00665	0.0053	80	40-150
2706-91-4	Perfluoropentanesulfonic acid	0.00706	0.0058	82	40-150
355-46-4	Perfluorohexanesulfonic acid	0.00686	0.0055	80	40-150
375-92-8	Perfluoroheptanesulfonic acid	0.00715	0.0058	81	40-150
1763-23-1	Perfluorooctanesulfonic acid	0.00696	0.0063	91	40-150
68259-12-1	Perfluorononanesulfonic acid	0.00722	0.0057	79	40-150
335-77-3	Perfluorodecanesulfonic acid	0.00724	0.0057	79	40-150
79780-39-5	Perfluorododecanesulfonic aci	0.00728	0.0057	78	40-150
757124-72-44:2	Fluorotelomer sulfonate	0.0281	0.0223	79	40-150
27619-97-2	6:2 Fluorotelomer sulfonate	0.0285	0.0223	78	40-150
39108-34-4	8:2 Fluorotelomer sulfonate	0.0288	0.0279	97	40-150
754-91-6	PFOSA	0.0075	0.0060	80	40-150
31506-32-8	MeFOSA	0.015	0.0130	87	40-150
4151-50-2	EtFOSA	0.015	0.0127	85	40-150
2355-31-9	MeFOSAA	0.0075	0.0063	84	40-150
2991-50-6	EtFOSAA	0.0075	0.0065	87	40-150
24448-09-7	MeFOSE	0.0375	0.0335	89	40-150
1691-99-2	EtFOSE	0.0375	0.0274	73	40-150
13252-13-6	HFPO-DA (GenX)	0.015	0.0134	89	40-150
919005-14-4	ADONA	0.0142	0.0132	93	40-150
377-73-1	PFMPA	0.015	0.0128	85	40-150
863090-89-5	PFMBA	0.015	0.0128	85	40-150
151772-58-6	NFDHA	0.015	0.0129	86	40-150
756426-58-19	Cl-PF3ONS (F-53B Major)	0.014	0.0126	90	40-150
763051-92-91	Cl-PF3OUdS (F-53B Minor)	0.0142	0.0120	85	40-150

\* = Outside of Control Limits.

# Blank Spike Summary

Job Number: FC7490  
 Account: AECOMCOD AECOM, INC.  
 Project: N6274223F0104 RH Fire Suppression System

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP97799-LLBS	6Q20911.D	1	07/13/23	MV	07/12/23	OP97799	S6Q310

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

FC7490-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
113507-82-7	PFEESA	0.0134	0.0109	82	40-150
356-02-5	3:3 Fluorotelomer carboxylate	0.0375	0.0223	59	40-150
914637-49-35:3	Fluorotelomer carboxylate	0.188	0.148	79	40-150
812-70-4	7:3 Fluorotelomer carboxylate	0.188	0.159	85	40-150

CAS No.	ID Standard Recoveries	BSP	Limits
	13C4-PFBA	118%	20-150%
	13C5-PFPeA	117%	20-150%
	13C5-PFHxA	116%	20-150%
	13C4-PFHpA	122%	20-150%
	13C8-PFOA	116%	20-150%
	13C9-PFNA	108%	20-150%
	13C6-PFDA	129%	20-150%
	13C7-PFUnDA	127%	20-150%
	13C2-PFDoDA	116%	20-150%
	13C2-PFTeDA	113%	20-150%
	13C3-PFBS	123%	20-150%
	13C3-PFHxS	122%	20-150%
	13C8-PFOS	127%	20-150%
	13C8-FOSA	93%	20-150%
	d3-MeFOSA	89%	20-150%
	d5-EtFOSA	98%	20-150%
	d3-MeFOSAA	127%	20-150%
	d5-EtFOSAA	129%	20-150%
	d7-MeFOSE	79%	20-150%
	d9-EtFOSE	104%	20-150%
	13C2-4:2FTS	144%	20-180%
	13C2-6:2FTS	146%	20-180%
	13C2-8:2FTS	134%	20-180%
	13C3-HFPO-DA	106%	20-150%

\* = Outside of Control Limits.

# Blank Spike Summary

Job Number: FC7490  
 Account: AECOMCOD AECOM, INC.  
 Project: N6274223F0104 RH Fire Suppression System

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP97799-BS	6Q20910.D	1	07/13/23	MV	07/12/23	OP97799	S6Q310

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

FC7490-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
375-22-4	Perfluorobutanoic acid	0.1	0.0831	83	40-150
2706-90-3	Perfluoropentanoic acid	0.05	0.0424	85	40-150
307-24-4	Perfluorohexanoic acid	0.025	0.0212	85	40-150
375-85-9	Perfluoroheptanoic acid	0.025	0.0223	89	40-150
335-67-1	Perfluorooctanoic acid	0.025	0.0209	84	40-150
375-95-1	Perfluorononanoic acid	0.025	0.0224	90	40-150
335-76-2	Perfluorodecanoic acid	0.025	0.0239	96	40-150
2058-94-8	Perfluoroundecanoic acid	0.025	0.0234	94	40-150
307-55-1	Perfluorododecanoic acid	0.025	0.0219	88	40-150
72629-94-8	Perfluorotridecanoic acid	0.025	0.0220	88	40-150
376-06-7	Perfluorotetradecanoic acid	0.025	0.0246	98	40-150
375-73-5	Perfluorobutanesulfonic acid	0.0222	0.0195	88	40-150
2706-91-4	Perfluoropentanesulfonic acid	0.0235	0.0191	81	40-150
355-46-4	Perfluorohexanesulfonic acid	0.0229	0.0195	85	40-150
375-92-8	Perfluoroheptanesulfonic acid	0.0238	0.0195	82	40-150
1763-23-1	Perfluorooctanesulfonic acid	0.0232	0.0190	82	40-150
68259-12-1	Perfluorononanesulfonic acid	0.0241	0.0196	81	40-150
335-77-3	Perfluorodecanesulfonic acid	0.0241	0.0187	78	40-150
79780-39-5	Perfluorododecanesulfonic aci	0.0243	0.0189	78	40-150
757124-72-44:2	Fluorotelomer sulfonate	0.0938	0.0789	84	40-150
27619-97-2	6:2 Fluorotelomer sulfonate	0.095	0.0851	90	40-150
39108-34-4	8:2 Fluorotelomer sulfonate	0.096	0.0788	82	40-150
754-91-6	PFOSA	0.025	0.0202	81	40-150
31506-32-8	MeFOSA	0.05	0.0444	89	40-150
4151-50-2	EtFOSA	0.05	0.0414	83	40-150
2355-31-9	MeFOSAA	0.025	0.0207	83	40-150
2991-50-6	EtFOSAA	0.025	0.0227	91	40-150
24448-09-7	MeFOSE	0.125	0.107	86	40-150
1691-99-2	EtFOSE	0.125	0.0926	74	40-150
13252-13-6	HFPO-DA (GenX)	0.05	0.0444	89	40-150
919005-14-4	ADONA	0.0473	0.0475	101	40-150
377-73-1	PFMPA	0.05	0.0432	86	40-150
863090-89-5	PFMBA	0.05	0.0436	87	40-150
151772-58-6	NFDHA	0.05	0.0421	84	40-150
756426-58-19	Cl-PF3ONS (F-53B Major)	0.0468	0.0424	91	40-150
763051-92-91	Cl-PF3OUdS (F-53B Minor)	0.0473	0.0433	92	40-150

\* = Outside of Control Limits.

# Blank Spike Summary

Job Number: FC7490  
 Account: AECOMCOD AECOM, INC.  
 Project: N6274223F0104 RH Fire Suppression System

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP97799-BS	6Q20910.D	1	07/13/23	MV	07/12/23	OP97799	S6Q310

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

FC7490-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
113507-82-7	PFEESA	0.0445	0.0382	86	40-150
356-02-5	3:3 Fluorotelomer carboxylate	0.125	0.0734	59	40-150
914637-49-35:3	Fluorotelomer carboxylate	0.625	0.481	77	40-150
812-70-4	7:3 Fluorotelomer carboxylate	0.625	0.496	79	40-150

CAS No.	ID Standard Recoveries	BSP	Limits
	13C4-PFBA	118%	20-150%
	13C5-PFPeA	115%	20-150%
	13C5-PFHxA	116%	20-150%
	13C4-PFHpA	115%	20-150%
	13C8-PFOA	110%	20-150%
	13C9-PFNA	109%	20-150%
	13C6-PFDA	105%	20-150%
	13C7-PFUnDA	114%	20-150%
	13C2-PFDoDA	102%	20-150%
	13C2-PFTeDA	97%	20-150%
	13C3-PFBS	119%	20-150%
	13C3-PFHxS	126%	20-150%
	13C8-PFOS	122%	20-150%
	13C8-FOSA	80%	20-150%
	d3-MeFOSA	73%	20-150%
	d5-EtFOSA	82%	20-150%
	d3-MeFOSAA	115%	20-150%
	d5-EtFOSAA	116%	20-150%
	d7-MeFOSE	66%	20-150%
	d9-EtFOSE	85%	20-150%
	13C2-4:2FTS	138%	20-180%
	13C2-6:2FTS	137%	20-180%
	13C2-8:2FTS	144%	20-180%
	13C3-HFPO-DA	104%	20-150%

\* = Outside of Control Limits.

# Matrix Spike Summary

Job Number: FC7490  
 Account: AECOMCOD AECOM, INC.  
 Project: N6274223F0104 RH Fire Suppression System

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP97799-MS	6Q20916.D	1	07/13/23	MV	07/12/23	OP97799	S6Q310
FC7583-3	6Q20915.D	1	07/13/23	MV	07/12/23	OP97799	S6Q310

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

FC7490-1

CAS No.	Compound	FC7583-3 ug/l	Spike Q	MS ug/l	MS %	Limits	
375-22-4	Perfluorobutanoic acid	0.015 U		0.0943	0.0868	92	40-150
2706-90-3	Perfluoropentanoic acid	0.0029 J		0.0472	0.0460	91	40-150
307-24-4	Perfluorohexanoic acid	0.0014 J		0.0236	0.0218	86	40-150
375-85-9	Perfluoroheptanoic acid	0.0015 J		0.0236	0.0220	87	40-150
335-67-1	Perfluorooctanoic acid	0.0037 U		0.0236	0.0214	91	40-150
375-95-1	Perfluorononanoic acid	0.0037 U		0.0236	0.0241	102	40-150
335-76-2	Perfluorodecanoic acid	0.0037 U		0.0236	0.0205	87	40-150
2058-94-8	Perfluoroundecanoic acid	0.0037 U		0.0236	0.0198	84	40-150
307-55-1	Perfluorododecanoic acid	0.0037 U		0.0236	0.0252	107	40-150
72629-94-8	Perfluorotridecanoic acid	0.0037 U		0.0236	0.0231	98	40-150
376-06-7	Perfluorotetradecanoic acid	0.0037 U		0.0236	0.0254	108	40-150
375-73-5	Perfluorobutanesulfonic acid	0.0037 U		0.0209	0.0190	91	40-150
2706-91-4	Perfluoropentanesulfonic acid	0.0046 U		0.0222	0.0193	87	40-150
355-46-4	Perfluorohexanesulfonic acid	0.0037 U		0.0216	0.0179	83	40-150
375-92-8	Perfluoroheptanesulfonic acid	0.0037 U		0.0225	0.0216	96	40-150
1763-23-1	Perfluorooctanesulfonic acid	0.0037 U		0.0219	0.0208	95	40-150
68259-12-1	Perfluorononanesulfonic acid	0.0037 U		0.0227	0.0189	83	40-150
335-77-3	Perfluorodecanesulfonic acid	0.0037 U		0.0228	0.0202	89	40-150
79780-39-5	Perfluorododecanesulfonic aci	0.0046 U		0.0229	0.0187	82	40-150
757124-72-44:2	Fluorotelomer sulfonate	0.018 U		0.0884	0.0856	97	40-150
27619-97-2	6:2 Fluorotelomer sulfonate	0.0047 J		0.0896	0.0870	92	40-150
39108-34-4	8:2 Fluorotelomer sulfonate	0.018 U		0.0906	0.0923	102	40-150
754-91-6	PFOSA	0.0037 U		0.0236	0.0222	94	40-150
31506-32-8	MeFOSA	0.0074 U		0.0472	0.0453	96	40-150
4151-50-2	EtFOSA	0.0074 U		0.0472	0.0437	93	40-150
2355-31-9	MeFOSAA	0.0046 U		0.0236	0.0231	98	40-150
2991-50-6	EtFOSAA	0.0046 U		0.0236	0.0212	90	40-150
24448-09-7	MeFOSE	0.037 U		0.118	0.109	92	40-150
1691-99-2	EtFOSE	0.037 U		0.118	0.106	90	40-150
13252-13-6	HFPO-DA (GenX)	0.0037 U		0.0472	0.0428	91	40-150
919005-14-4	ADONA	0.0074 U		0.0446	0.0487	109	40-150
377-73-1	PFMPA	0.0074 U		0.0472	0.0431	91	40-150
863090-89-5	PFMBA	0.0074 U		0.0472	0.0429	91	40-150
151772-58-6	NFDHA	0.0074 U		0.0472	0.0408	86	40-150
756426-58-19	Cl-PF3ONS (F-53B Major)	0.0074 U		0.0441	0.0420	95	40-150
763051-92-91	Cl-PF3OUdS (F-53B Minor)	0.0074 U		0.0446	0.0380	85	40-150

\* = Outside of Control Limits.

# Matrix Spike Summary

Job Number: FC7490  
 Account: AECOMCOD AECOM, INC.  
 Project: N6274223F0104 RH Fire Suppression System

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP97799-MS	6Q20916.D	1	07/13/23	MV	07/12/23	OP97799	S6Q310
FC7583-3	6Q20915.D	1	07/13/23	MV	07/12/23	OP97799	S6Q310

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

FC7490-1

CAS No.	Compound	FC7583-3 ug/l	Spike Q	MS ug/l	MS %	Limits
113507-82-7PFEESA		0.0074 U	0.042	0.0364	87	40-150
356-02-5	3:3 Fluorotelomer carboxylate	0.018 U	0.118	0.0773	66	40-150
914637-49-35:3	Fluorotelomer carboxylate	0.092 U	0.59	0.477	81	40-150
812-70-4	7:3 Fluorotelomer carboxylate	0.092 U	0.59	0.508	86	40-150

CAS No.	ID Standard Recoveries	MS	FC7583-3	Limits
	13C4-PFBA	96%	101%	20-150%
	13C5-PFPeA	108%	107%	20-150%
	13C5-PFHxA	113%	109%	20-150%
	13C4-PFHpA	122%	110%	20-150%
	13C8-PFOA	113%	110%	20-150%
	13C9-PFNA	96%	108%	20-150%
	13C6-PFDA	110%	123%	20-150%
	13C7-PFUnDA	111%	106%	20-150%
	13C2-PFDoDA	87%	93%	20-150%
	13C2-PFTeDA	81%	84%	20-150%
	13C3-PFBS	108%	108%	20-150%
	13C3-PFHxS	114%	115%	20-150%
	13C8-PFOS	100%	111%	20-150%
	13C8-FOSA	73%	93%	20-150%
	d3-MeFOSA	74%	85%	20-150%
	d5-EtFOSA	84%	88%	20-150%
	d3-MeFOSAA	101%	113%	20-150%
	d5-EtFOSAA	106%	110%	20-150%
	d7-MeFOSE	72%	85%	20-150%
	d9-EtFOSE	84%	97%	20-150%
	13C2-4:2FTS	106%	106%	20-180%
	13C2-6:2FTS	115%	122%	20-180%
	13C2-8:2FTS	111%	127%	20-180%
	13C3-HFPO-DA	100%	96%	20-150%

\* = Outside of Control Limits.



# Duplicate Summary

Job Number: FC7490  
 Account: AECOMCOD AECOM, INC.  
 Project: N6274223F0104 RH Fire Suppression System

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP97799-DUP	6Q20919.D	1	07/13/23	MV	07/12/23	OP97799	S6Q310
FC7583-4	6Q20920.D	1	07/13/23	MV	07/12/23	OP97799	S6Q310

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

FC7490-1

CAS No.	Compound	FC7583-4 ug/l	DUP Q ug/l	Q	RPD	Limits
375-22-4	Perfluorobutanoic acid	0.014 U	ND		nc	30
2706-90-3	Perfluoropentanoic acid	0.0070 U	ND		nc	30
307-24-4	Perfluorohexanoic acid	0.0035 U	ND		nc	30
375-85-9	Perfluoroheptanoic acid	0.0035 U	ND		nc	30
335-67-1	Perfluorooctanoic acid	0.0035 U	ND		nc	30
375-95-1	Perfluorononanoic acid	0.0035 U	0.00065 J		200*	30
335-76-2	Perfluorodecanoic acid	0.0035 U	0.00093 J		200*	30
2058-94-8	Perfluoroundecanoic acid	0.0035 U	ND		nc	30
307-55-1	Perfluorododecanoic acid	0.0035 U	ND		nc	30
72629-94-8	Perfluorotridecanoic acid	0.0035 U	ND		nc	30
376-06-7	Perfluorotetradecanoic acid	0.0035 U	ND		nc	30
375-73-5	Perfluorobutanesulfonic acid	0.0035 U	ND		nc	30
2706-91-4	Perfluoropentanesulfonic acid	0.0044 U	ND		nc	30
355-46-4	Perfluorohexanesulfonic acid	0.0035 U	ND		nc	30
375-92-8	Perfluoroheptanesulfonic acid	0.0035 U	ND		nc	30
1763-23-1	Perfluorooctanesulfonic acid	0.0035 U	ND		nc	30
68259-12-1	Perfluorononanesulfonic acid	0.0035 U	ND		nc	30
335-77-3	Perfluorodecanesulfonic acid	0.0035 U	ND		nc	30
79780-39-5	Perfluorododecanesulfonic aci	0.0044 U	ND		nc	30
757124-72-44:2	Fluorotelomer sulfonate	0.018 U	ND		nc	30
27619-97-2	6:2 Fluorotelomer sulfonate	0.018 U	ND		nc	30
39108-34-4	8:2 Fluorotelomer sulfonate	0.018 U	ND		nc	30
754-91-6	PFOSA	0.0035 U	ND		nc	30
31506-32-8	MeFOSA	0.0070 U	ND		nc	30
4151-50-2	EtFOSA	0.0070 U	ND		nc	30
2355-31-9	MeFOSAA	0.0044 U	ND		nc	30
2991-50-6	EtFOSAA	0.0044 U	ND		nc	30
24448-09-7	MeFOSE	0.035 U	ND		nc	30
1691-99-2	EtFOSE	0.035 U	ND		nc	30
13252-13-6	HFPO-DA (GenX)	0.0035 U	ND		nc	30
919005-14-4	ADONA	0.0070 U	ND		nc	30
377-73-1	PFMPA	0.0070 U	ND		nc	30
863090-89-5	PFMBA	0.0070 U	ND		nc	30
151772-58-6	NFDHA	0.0070 U	ND		nc	30
756426-58-19	Cl-PF3ONS (F-53B Major)	0.0070 U	ND		nc	30
763051-92-91	Cl-PF3OUdS (F-53B Minor)	0.0070 U	ND		nc	30

\* = Outside of Control Limits.

# Duplicate Summary

Job Number: FC7490  
 Account: AECOMCOD AECOM, INC.  
 Project: N6274223F0104 RH Fire Suppression System

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP97799-DUP	6Q20919.D	1	07/13/23	MV	07/12/23	OP97799	S6Q310
FC7583-4	6Q20920.D	1	07/13/23	MV	07/12/23	OP97799	S6Q310

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

FC7490-1

CAS No.	Compound	FC7583-4 ug/l	DUP Q ug/l	Q RPD	Limits
113507-82-7PFEESA		0.0070 U	ND	nc	30
356-02-5	3:3 Fluorotelomer carboxylate	0.018 U	ND	nc	30
914637-49-35:3	Fluorotelomer carboxylate	0.088 U	ND	nc	30
812-70-4	7:3 Fluorotelomer carboxylate	0.088 U	ND	nc	30

CAS No.	ID Standard Recoveries	DUP	FC7583-4	Limits
	13C4-PFBA	112%	105%	20-150%
	13C5-PFPeA	116%	103%	20-150%
	13C5-PFHxA	115%	106%	20-150%
	13C4-PFHpA	123%	108%	20-150%
	13C8-PFOA	117%	111%	20-150%
	13C9-PFNA	108%	106%	20-150%
	13C6-PFDA	121%	97%	20-150%
	13C7-PFUnDA	118%	98%	20-150%
	13C2-PFDoDA	100%	82%	20-150%
	13C2-PFTeDA	104%	77%	20-150%
	13C3-PFBS	124%	113%	20-150%
	13C3-PFHxS	125%	115%	20-150%
	13C8-PFOS	119%	111%	20-150%
	13C8-FOSA	98%	89%	20-150%
	d3-MeFOSA	91%	82%	20-150%
	d5-EtFOSA	97%	90%	20-150%
	d3-MeFOSAA	96%	104%	20-150%
	d5-EtFOSAA	119%	111%	20-150%
	d7-MeFOSE	80%	79%	20-150%
	d9-EtFOSE	101%	95%	20-150%
	13C2-4:2FTS	142%	135%	20-180%
	13C2-6:2FTS	140%	129%	20-180%
	13C2-8:2FTS	137%	128%	20-180%
	13C3-HFPO-DA	102%	91%	20-150%

\* = Outside of Control Limits.