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Automated Report

Technical Report for

AECOM, INC.

N6274223F0104 RH Fire Suppression System

60697810

SGS Job Number: FC6278

Sampling Date: 05/22/23



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Total number of pages in report: 55



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
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Certifications: FL(E83510), LA(03051), KS(E-10327), NC(573), NJ(FL002), NY(12022), SC(96038001)
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Test results relate only to samples analyzed.

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Sample Summary

AECOM, INC.

Job No: FC6278

N6274223F0104 RH Fire Suppression System
Project No: 60697810

| Sample Number | Collected Date | Time By | Received | Matrix Code | Type | Client Sample ID |
|---------------|----------------|------------|----------|-------------|--------------|----------------------------|
| FC6278-1 | 05/22/23 | 09:40 RS | 05/23/23 | AQ | Ground Water | AF-RHMW12A-WGN01LF-2305W4 |
| FC6278-2 | 05/22/23 | 09:40 RS | 05/23/23 | AQ | Ground Water | AF-RHMW12A-WGFD01LF-2305W4 |
| FC6278-3 | 05/22/23 | 09:55 JVJV | 05/23/23 | AQ | Ground Water | AF-RHMW04-WGN01LF-2305W4 |
| FC6278-4 | 05/22/23 | 11:15 AY | 05/23/23 | AQ | Ground Water | AF-RHMW06-WGN01LF-2305W4 |
| FC6278-5 | 05/22/23 | 12:41 RSCP | 05/23/23 | AQ | Ground Water | AF-RHMW16-WGN01LF-2305W4 |

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: AECOM, INC.

Job No: FC6278

Site: N6274223F0104 RH Fire Suppression System

Report Date: 6/1/2023 5:56:36 PM

On 05/23/2023, 5 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 2.6 C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. - Orlando Job Number of FC6278 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: OP97070

Sample(s) FC6278-1MS, FC6278-3DUP were used as the QC samples indicated.

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: FC6278
Account: AECOM, INC.
Project: N6274223F0104 RH Fire Suppression System
Collected: 05/22/23



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

FC6278-1 **AF-RHMW12A-WGN01LF-2305W4**

| | | | | | |
|-------------------------|-------|-----|-----|------|----------------|
| Perfluoropentanoic acid | 3.4 J | 7.4 | 1.9 | ng/l | EPA DRAFT 1633 |
| Perfluorohexanoic acid | 1.0 J | 3.7 | 1.9 | ng/l | EPA DRAFT 1633 |

FC6278-2 **AF-RHMW12A-WGFD01LF-2305W4**

| | | | | | |
|-------------------------|--------|-----|-----|------|----------------|
| Perfluoropentanoic acid | 3.4 J | 7.0 | 1.8 | ng/l | EPA DRAFT 1633 |
| Perfluorohexanoic acid | 0.94 J | 3.5 | 1.8 | ng/l | EPA DRAFT 1633 |

FC6278-3 **AF-RHMW04-WGN01LF-2305W4**

No hits reported in this sample.

FC6278-4 **AF-RHMW06-WGN01LF-2305W4**

No hits reported in this sample.

FC6278-5 **AF-RHMW16-WGN01LF-2305W4**

No hits reported in this sample.

Sample Results

Report of Analysis

Report of Analysis

| | | | |
|-------------------|--|-----------------|----------|
| Client Sample ID: | AF-RHMW12A-WGN01LF-2305W4 | | |
| Lab Sample ID: | FC6278-1 | Date Sampled: | 05/22/23 |
| Matrix: | AQ - Ground Water | Date Received: | 05/23/23 |
| 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 | 6Q18602.D | 1 | 05/31/23 21:08 | MV | 05/25/23 13:00 | OP97070 | S6Q279 |
| Run #2 | | | | | | | |

| Run # | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 540 ml | 5.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | LOQ | LOD | DL | Units | Q |
|---------|----------|--------|-----|-----|----|-------|---|
|---------|----------|--------|-----|-----|----|-------|---|

PERFLUOROALKYL CARBOXYLIC ACIDS

| | | | | | | | |
|------------|-----------------------------|--------|-----|------|------|------|---|
| 375-22-4 | Perfluorobutanoic acid | 3.7 U | 15 | 3.7 | 1.8 | ng/l | |
| 2706-90-3 | Perfluoropentanoic acid | 3.4 | 7.4 | 1.9 | 0.87 | ng/l | J |
| 307-24-4 | Perfluorohexanoic acid | 1.0 | 3.7 | 1.9 | 0.46 | ng/l | J |
| 375-85-9 | Perfluoroheptanoic acid | 1.9 U | 3.7 | 1.9 | 0.46 | ng/l | |
| 335-67-1 | Perfluorooctanoic acid | 0.93 U | 3.7 | 0.93 | 0.46 | ng/l | |
| 375-95-1 | Perfluorononanoic acid | 1.9 U | 3.7 | 1.9 | 0.56 | ng/l | |
| 335-76-2 | Perfluorodecanoic acid | 1.9 U | 3.7 | 1.9 | 0.46 | ng/l | |
| 2058-94-8 | Perfluoroundecanoic acid | 1.9 U | 3.7 | 1.9 | 0.56 | ng/l | |
| 307-55-1 | Perfluorododecanoic acid | 1.9 U | 3.7 | 1.9 | 0.56 | ng/l | |
| 72629-94-8 | Perfluorotridecanoic acid | 1.9 U | 3.7 | 1.9 | 0.78 | ng/l | |
| 376-06-7 | Perfluorotetradecanoic acid | 1.9 U | 3.7 | 1.9 | 0.46 | ng/l | |

PERFLUOROALKYL SULFONIC ACIDS

| | | | | | | | |
|------------|-------------------------------|-------|-----|-----|------|------|--|
| 375-73-5 | Perfluorobutanesulfonic acid | 1.9 U | 3.7 | 1.9 | 0.46 | ng/l | |
| 2706-91-4 | Perfluoropentanesulfonic acid | 3.7 U | 4.6 | 3.7 | 1.0 | ng/l | |
| 355-46-4 | Perfluorohexanesulfonic acid | 1.9 U | 3.7 | 1.9 | 0.65 | ng/l | |
| 375-92-8 | Perfluoroheptanesulfonic acid | 1.9 U | 3.7 | 1.9 | 0.46 | ng/l | |
| 1763-23-1 | Perfluorooctanesulfonic acid | 1.9 U | 3.7 | 1.9 | 0.50 | ng/l | |
| 68259-12-1 | Perfluorononanesulfonic acid | 1.9 U | 3.7 | 1.9 | 0.53 | ng/l | |
| 335-77-3 | Perfluorodecanesulfonic acid | 1.9 U | 3.7 | 1.9 | 0.59 | ng/l | |
| 79780-39-5 | Perfluorododecanesulfonic aci | 3.7 U | 4.6 | 3.7 | 1.1 | ng/l | |

FLUOROTELOMER SULFONIC ACIDS

| | | | | | | | |
|-------------|-----------------------------|-------|----|-----|-----|------|--|
| 757124-72-4 | 4:2 Fluorotelomer sulfonate | 7.4 U | 19 | 7.4 | 3.0 | ng/l | |
| 27619-97-2 | 6:2 Fluorotelomer sulfonate | 7.4 U | 19 | 7.4 | 3.2 | ng/l | |
| 39108-34-4 | 8:2 Fluorotelomer sulfonate | 7.4 U | 19 | 7.4 | 3.8 | ng/l | |

PERFLUOROOCCTANE SULFONAMIDES

| | | | | | | | |
|------------|--------|-------|-----|-----|------|------|--|
| 754-91-6 | PFOSA | 1.9 U | 3.7 | 1.9 | 0.62 | ng/l | |
| 31506-32-8 | MeFOSA | 3.7 U | 7.4 | 3.7 | 0.93 | ng/l | |
| 4151-50-2 | EtFOSA | 3.7 U | 7.4 | 3.7 | 0.93 | 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

4.1
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Report of Analysis

| | | | |
|-------------------|--|-----------------|----------|
| Client Sample ID: | AF-RHMW12A-WGN01LF-2305W4 | | |
| Lab Sample ID: | FC6278-1 | Date Sampled: | 05/22/23 |
| Matrix: | AQ - Ground Water | Date Received: | 05/23/23 |
| 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 |
|---------|----------|--------|-----|-----|----|-------|---|
|---------|----------|--------|-----|-----|----|-------|---|

PERFLUOROOCCTANE SULFONAMIDOACETIC ACIDS

| | | | | | | | |
|-----------|---------|-------|-----|-----|------|------|--|
| 2355-31-9 | MeFOSAA | 3.7 U | 4.6 | 3.7 | 0.93 | ng/l | |
| 2991-50-6 | EtFOSAA | 3.7 U | 4.6 | 3.7 | 1.2 | ng/l | |

PERFLUOROOCCTANE SULFONAMIDO ETHANOLS

| | | | | | | | |
|------------|--------|------|----|----|-----|------|--|
| 24448-09-7 | MeFOSE | 19 U | 37 | 19 | 4.1 | ng/l | |
| 1691-99-2 | EtFOSE | 19 U | 37 | 19 | 6.9 | ng/l | |

PER and POLYFLUOROETHER CARBOXYLIC ACIDS

| | | | | | | | |
|-------------|----------------|-------|-----|-----|------|------|--|
| 13252-13-6 | HFPO-DA (GenX) | 1.9 U | 3.7 | 1.9 | 0.93 | ng/l | |
| 919005-14-4 | ADONA | 3.7 U | 7.4 | 3.7 | 1.7 | ng/l | |
| 377-73-1 | PFMPA | 1.9 U | 7.4 | 1.9 | 0.93 | ng/l | |
| 863090-89-5 | PFMBA | 3.7 U | 7.4 | 3.7 | 1.1 | ng/l | |
| 151772-58-6 | NFDHA | 3.7 U | 7.4 | 3.7 | 1.1 | ng/l | |

PER and POLYFLUOROETHER SULFONIC ACIDS

| | | | | | | | |
|-------------|----------------------------|-------|-----|-----|------|------|--|
| 756426-58-1 | 9Cl-PF3ONS (F-53B Major) | 3.7 U | 7.4 | 3.7 | 1.3 | ng/l | |
| 763051-92-9 | 11Cl-PF3OUdS (F-53B Minor) | 3.7 U | 7.4 | 3.7 | 1.6 | ng/l | |
| 113507-82-7 | PFEESA | 1.9 U | 7.4 | 1.9 | 0.72 | ng/l | |

FLUOROTELOMER CARBOXYLIC ACIDS

| | | | | | | | |
|-------------|-------------------------------|-------|----|-----|-----|------|--|
| 356-02-5 | 3:3 Fluorotelomer carboxylate | 9.3 U | 19 | 9.3 | 4.2 | ng/l | |
| 914637-49-3 | 5:3 Fluorotelomer carboxylate | 19 U | 93 | 19 | 8.1 | ng/l | |
| 812-70-4 | 7:3 Fluorotelomer carboxylate | 19 U | 93 | 19 | 7.3 | ng/l | |

| CAS No. | ID Standard Recoveries | Run# 1 | Run# 2 | Limits |
|---------|------------------------|--------|--------|---------|
| | 13C4-PFBA | 56% | | 20-150% |
| | 13C5-PFPeA | 104% | | 20-150% |
| | 13C5-PFHxA | 100% | | 20-150% |
| | 13C4-PFHpA | 106% | | 20-150% |
| | 13C8-PFOA | 107% | | 20-150% |
| | 13C9-PFNA | 103% | | 20-150% |
| | 13C6-PFDA | 99% | | 20-150% |
| | 13C7-PFUnDA | 98% | | 20-150% |
| | 13C2-PFDoDA | 93% | | 20-150% |
| | 13C2-PFTeDA | 85% | | 20-150% |
| | 13C3-PFBS | 106% | | 20-150% |
| | 13C3-PFHxS | 105% | | 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-RHMW12A-WGN01LF-2305W4 | | |
| Lab Sample ID: | FC6278-1 | Date Sampled: | 05/22/23 |
| Matrix: | AQ - Ground Water | Date Received: | 05/23/23 |
| 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 | 91% | | 20-150% |
| | 13C8-FOSA | 82% | | 20-150% |
| | d3-MeFOSA | 84% | | 20-150% |
| | d5-EtFOSA | 91% | | 20-150% |
| | d3-MeFOSAA | 98% | | 20-150% |
| | d5-EtFOSAA | 92% | | 20-150% |
| | d7-MeFOSE | 76% | | 20-150% |
| | d9-EtFOSE | 89% | | 20-150% |
| | 13C2-4:2FTS | 108% | | 20-180% |
| | 13C2-6:2FTS | 113% | | 20-180% |
| | 13C2-8:2FTS | 105% | | 20-180% |
| | 13C3-HFPO-DA | 105% | | 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-RHMW12A-WGFD01LF-2305W4 | | |
| Lab Sample ID: | FC6278-2 | Date Sampled: | 05/22/23 |
| Matrix: | AQ - Ground Water | Date Received: | 05/23/23 |
| 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 | 6Q18604.D | 1 | 05/31/23 21:37 | MV | 05/25/23 13:00 | OP97070 | S6Q279 |
| Run #2 | | | | | | | |

| Run # | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 570 ml | 5.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | LOQ | LOD | DL | Units | Q |
|---------|----------|--------|-----|-----|----|-------|---|
|---------|----------|--------|-----|-----|----|-------|---|

PERFLUOROALKYL CARBOXYLIC ACIDS

| | | | | | | | |
|------------|-----------------------------|--------|-----|------|------|------|---|
| 375-22-4 | Perfluorobutanoic acid | 3.5 U | 14 | 3.5 | 1.7 | ng/l | |
| 2706-90-3 | Perfluoropentanoic acid | 3.4 | 7.0 | 1.8 | 0.82 | ng/l | J |
| 307-24-4 | Perfluorohexanoic acid | 0.94 | 3.5 | 1.8 | 0.44 | ng/l | J |
| 375-85-9 | Perfluoroheptanoic acid | 1.8 U | 3.5 | 1.8 | 0.44 | ng/l | |
| 335-67-1 | Perfluorooctanoic acid | 0.88 U | 3.5 | 0.88 | 0.44 | ng/l | |
| 375-95-1 | Perfluorononanoic acid | 1.8 U | 3.5 | 1.8 | 0.54 | ng/l | |
| 335-76-2 | Perfluorodecanoic acid | 1.8 U | 3.5 | 1.8 | 0.44 | ng/l | |
| 2058-94-8 | Perfluoroundecanoic acid | 1.8 U | 3.5 | 1.8 | 0.53 | ng/l | |
| 307-55-1 | Perfluorododecanoic acid | 1.8 U | 3.5 | 1.8 | 0.53 | ng/l | |
| 72629-94-8 | Perfluorotridecanoic acid | 1.8 U | 3.5 | 1.8 | 0.74 | ng/l | |
| 376-06-7 | Perfluorotetradecanoic acid | 1.8 U | 3.5 | 1.8 | 0.44 | ng/l | |

PERFLUOROALKYL SULFONIC ACIDS

| | | | | | | | |
|------------|-------------------------------|-------|-----|-----|------|------|--|
| 375-73-5 | Perfluorobutanesulfonic acid | 1.8 U | 3.5 | 1.8 | 0.44 | ng/l | |
| 2706-91-4 | Perfluoropentanesulfonic acid | 3.5 U | 4.4 | 3.5 | 0.98 | ng/l | |
| 355-46-4 | Perfluorohexanesulfonic acid | 1.8 U | 3.5 | 1.8 | 0.61 | ng/l | |
| 375-92-8 | Perfluoroheptanesulfonic acid | 1.8 U | 3.5 | 1.8 | 0.44 | ng/l | |
| 1763-23-1 | Perfluorooctanesulfonic acid | 1.8 U | 3.5 | 1.8 | 0.47 | ng/l | |
| 68259-12-1 | Perfluorononanesulfonic acid | 1.8 U | 3.5 | 1.8 | 0.50 | ng/l | |
| 335-77-3 | Perfluorodecanesulfonic acid | 1.8 U | 3.5 | 1.8 | 0.56 | ng/l | |
| 79780-39-5 | Perfluorododecanesulfonic aci | 3.5 U | 4.4 | 3.5 | 1.0 | ng/l | |

FLUOROTELOMER SULFONIC ACIDS

| | | | | | | | |
|-------------|-----------------------------|-------|----|-----|-----|------|--|
| 757124-72-4 | 4:2 Fluorotelomer sulfonate | 7.0 U | 18 | 7.0 | 2.8 | ng/l | |
| 27619-97-2 | 6:2 Fluorotelomer sulfonate | 7.0 U | 18 | 7.0 | 3.0 | ng/l | |
| 39108-34-4 | 8:2 Fluorotelomer sulfonate | 7.0 U | 18 | 7.0 | 3.6 | ng/l | |

PERFLUOROOCCTANE SULFONAMIDES

| | | | | | | | |
|------------|--------|-------|-----|-----|------|------|--|
| 754-91-6 | PFOSA | 1.8 U | 3.5 | 1.8 | 0.59 | ng/l | |
| 31506-32-8 | MeFOSA | 3.5 U | 7.0 | 3.5 | 0.88 | ng/l | |
| 4151-50-2 | EtFOSA | 3.5 U | 7.0 | 3.5 | 0.88 | 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

4.2
4

Report of Analysis

| | | | |
|-------------------|--|-----------------|----------|
| Client Sample ID: | AF-RHMW12A-WGFD01LF-2305W4 | | |
| Lab Sample ID: | FC6278-2 | Date Sampled: | 05/22/23 |
| Matrix: | AQ - Ground Water | Date Received: | 05/23/23 |
| 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 |
|---------|----------|--------|-----|-----|----|-------|---|
|---------|----------|--------|-----|-----|----|-------|---|

PERFLUOROOCCTANE SULFONAMIDOACETIC ACIDS

| | | | | | | | |
|-----------|---------|-------|-----|-----|------|------|--|
| 2355-31-9 | MeFOSAA | 3.5 U | 4.4 | 3.5 | 0.88 | ng/l | |
| 2991-50-6 | EtFOSAA | 3.5 U | 4.4 | 3.5 | 1.2 | ng/l | |

PERFLUOROOCCTANE SULFONAMIDO ETHANOLS

| | | | | | | | |
|------------|--------|------|----|----|-----|------|--|
| 24448-09-7 | MeFOSE | 18 U | 35 | 18 | 3.8 | ng/l | |
| 1691-99-2 | EtFOSE | 18 U | 35 | 18 | 6.5 | ng/l | |

PER and POLYFLUOROETHER CARBOXYLIC ACIDS

| | | | | | | | |
|-------------|----------------|-------|-----|-----|------|------|--|
| 13252-13-6 | HFPO-DA (GenX) | 1.8 U | 3.5 | 1.8 | 0.88 | ng/l | |
| 919005-14-4 | ADONA | 3.5 U | 7.0 | 3.5 | 1.6 | ng/l | |
| 377-73-1 | PFMPA | 1.8 U | 7.0 | 1.8 | 0.88 | ng/l | |
| 863090-89-5 | PFMBA | 3.5 U | 7.0 | 3.5 | 1.0 | ng/l | |
| 151772-58-6 | NFDHA | 3.5 U | 7.0 | 3.5 | 1.1 | ng/l | |

PER and POLYFLUOROETHER SULFONIC ACIDS

| | | | | | | | |
|-------------|----------------------------|-------|-----|-----|------|------|--|
| 756426-58-1 | 9Cl-PF3ONS (F-53B Major) | 3.5 U | 7.0 | 3.5 | 1.2 | ng/l | |
| 763051-92-9 | 11Cl-PF3OUdS (F-53B Minor) | 3.5 U | 7.0 | 3.5 | 1.5 | ng/l | |
| 113507-82-7 | PFEESA | 1.8 U | 7.0 | 1.8 | 0.68 | ng/l | |

FLUOROTELOMER CARBOXYLIC ACIDS

| | | | | | | | |
|-------------|-------------------------------|-------|----|-----|-----|------|--|
| 356-02-5 | 3:3 Fluorotelomer carboxylate | 8.8 U | 18 | 8.8 | 4.0 | ng/l | |
| 914637-49-3 | 5:3 Fluorotelomer carboxylate | 18 U | 88 | 18 | 7.7 | ng/l | |
| 812-70-4 | 7:3 Fluorotelomer carboxylate | 18 U | 88 | 18 | 6.9 | ng/l | |

| CAS No. | ID Standard Recoveries | Run# 1 | Run# 2 | Limits |
|---------|------------------------|--------|--------|--------|
|---------|------------------------|--------|--------|--------|

| | | | | |
|--|-------------|------|--|---------|
| | 13C4-PFBA | 52% | | 20-150% |
| | 13C5-PFPeA | 108% | | 20-150% |
| | 13C5-PFHxA | 108% | | 20-150% |
| | 13C4-PFHpA | 105% | | 20-150% |
| | 13C8-PFOA | 106% | | 20-150% |
| | 13C9-PFNA | 100% | | 20-150% |
| | 13C6-PFDA | 105% | | 20-150% |
| | 13C7-PFUnDA | 99% | | 20-150% |
| | 13C2-PFDoDA | 93% | | 20-150% |
| | 13C2-PFTeDA | 91% | | 20-150% |
| | 13C3-PFBS | 106% | | 20-150% |
| | 13C3-PFHxS | 100% | | 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-RHMW12A-WGFD01LF-2305W4 | |
| Lab Sample ID: | FC6278-2 | Date Sampled: 05/22/23 |
| Matrix: | AQ - Ground Water | Date Received: 05/23/23 |
| 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 | 99% | | 20-150% |
| | 13C8-FOSA | 87% | | 20-150% |
| | d3-MeFOSA | 90% | | 20-150% |
| | d5-EtFOSA | 95% | | 20-150% |
| | d3-MeFOSAA | 99% | | 20-150% |
| | d5-EtFOSAA | 96% | | 20-150% |
| | d7-MeFOSE | 79% | | 20-150% |
| | d9-EtFOSE | 89% | | 20-150% |
| | 13C2-4:2FTS | 108% | | 20-180% |
| | 13C2-6:2FTS | 107% | | 20-180% |
| | 13C2-8:2FTS | 102% | | 20-180% |
| | 13C3-HFPO-DA | 106% | | 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-RHMW04-WGN01LF-2305W4 | | |
| Lab Sample ID: | FC6278-3 | Date Sampled: | 05/22/23 |
| Matrix: | AQ - Ground Water | Date Received: | 05/23/23 |
| 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 | 6Q18605.D | 1 | 05/31/23 21:51 | MV | 05/25/23 13:00 | OP97070 | S6Q279 |
| Run #2 | | | | | | | |

| Run # | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 540 ml | 5.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | LOQ | LOD | DL | Units | Q |
|---------|----------|--------|-----|-----|----|-------|---|
|---------|----------|--------|-----|-----|----|-------|---|

PERFLUOROALKYL CARBOXYLIC ACIDS

| | | | | | | | |
|------------|-----------------------------|--------|-----|------|------|------|--|
| 375-22-4 | Perfluorobutanoic acid | 3.7 U | 15 | 3.7 | 1.8 | ng/l | |
| 2706-90-3 | Perfluoropentanoic acid | 1.9 U | 7.4 | 1.9 | 0.87 | ng/l | |
| 307-24-4 | Perfluorohexanoic acid | 1.9 U | 3.7 | 1.9 | 0.46 | ng/l | |
| 375-85-9 | Perfluoroheptanoic acid | 1.9 U | 3.7 | 1.9 | 0.46 | ng/l | |
| 335-67-1 | Perfluorooctanoic acid | 0.93 U | 3.7 | 0.93 | 0.46 | ng/l | |
| 375-95-1 | Perfluorononanoic acid | 1.9 U | 3.7 | 1.9 | 0.56 | ng/l | |
| 335-76-2 | Perfluorodecanoic acid | 1.9 U | 3.7 | 1.9 | 0.46 | ng/l | |
| 2058-94-8 | Perfluoroundecanoic acid | 1.9 U | 3.7 | 1.9 | 0.56 | ng/l | |
| 307-55-1 | Perfluorododecanoic acid | 1.9 U | 3.7 | 1.9 | 0.56 | ng/l | |
| 72629-94-8 | Perfluorotridecanoic acid | 1.9 U | 3.7 | 1.9 | 0.78 | ng/l | |
| 376-06-7 | Perfluorotetradecanoic acid | 1.9 U | 3.7 | 1.9 | 0.46 | ng/l | |

PERFLUOROALKYL SULFONIC ACIDS

| | | | | | | | |
|------------|-------------------------------|-------|-----|-----|------|------|--|
| 375-73-5 | Perfluorobutanesulfonic acid | 1.9 U | 3.7 | 1.9 | 0.46 | ng/l | |
| 2706-91-4 | Perfluoropentanesulfonic acid | 3.7 U | 4.6 | 3.7 | 1.0 | ng/l | |
| 355-46-4 | Perfluorohexanesulfonic acid | 1.9 U | 3.7 | 1.9 | 0.65 | ng/l | |
| 375-92-8 | Perfluoroheptanesulfonic acid | 1.9 U | 3.7 | 1.9 | 0.46 | ng/l | |
| 1763-23-1 | Perfluorooctanesulfonic acid | 1.9 U | 3.7 | 1.9 | 0.50 | ng/l | |
| 68259-12-1 | Perfluorononanesulfonic acid | 1.9 U | 3.7 | 1.9 | 0.53 | ng/l | |
| 335-77-3 | Perfluorodecanesulfonic acid | 1.9 U | 3.7 | 1.9 | 0.59 | ng/l | |
| 79780-39-5 | Perfluorododecanesulfonic aci | 3.7 U | 4.6 | 3.7 | 1.1 | ng/l | |

FLUOROTELOMER SULFONIC ACIDS

| | | | | | | | |
|-------------|-----------------------------|-------|----|-----|-----|------|--|
| 757124-72-4 | 4:2 Fluorotelomer sulfonate | 7.4 U | 19 | 7.4 | 3.0 | ng/l | |
| 27619-97-2 | 6:2 Fluorotelomer sulfonate | 7.4 U | 19 | 7.4 | 3.2 | ng/l | |
| 39108-34-4 | 8:2 Fluorotelomer sulfonate | 7.4 U | 19 | 7.4 | 3.8 | ng/l | |

PERFLUOROOCCTANE SULFONAMIDES

| | | | | | | | |
|------------|--------|-------|-----|-----|------|------|--|
| 754-91-6 | PFOSA | 1.9 U | 3.7 | 1.9 | 0.62 | ng/l | |
| 31506-32-8 | MeFOSA | 3.7 U | 7.4 | 3.7 | 0.93 | ng/l | |
| 4151-50-2 | EtFOSA | 3.7 U | 7.4 | 3.7 | 0.93 | 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-RHMW04-WGN01LF-2305W4 | | |
| Lab Sample ID: | FC6278-3 | Date Sampled: | 05/22/23 |
| Matrix: | AQ - Ground Water | Date Received: | 05/23/23 |
| 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

PERFLUOROOCCTANE SULFONAMIDOACETIC ACIDS

| | | | | | | |
|-----------|---------|-------|-----|-----|------|------|
| 2355-31-9 | MeFOSAA | 3.7 U | 4.6 | 3.7 | 0.93 | ng/l |
| 2991-50-6 | EtFOSAA | 3.7 U | 4.6 | 3.7 | 1.2 | ng/l |

PERFLUOROOCCTANE SULFONAMIDO ETHANOLS

| | | | | | | |
|------------|--------|------|----|----|-----|------|
| 24448-09-7 | MeFOSE | 19 U | 37 | 19 | 4.1 | ng/l |
| 1691-99-2 | EtFOSE | 19 U | 37 | 19 | 6.9 | ng/l |

PER and POLYFLUOROETHER CARBOXYLIC ACIDS

| | | | | | | |
|-------------|----------------|-------|-----|-----|------|------|
| 13252-13-6 | HFPO-DA (GenX) | 1.9 U | 3.7 | 1.9 | 0.93 | ng/l |
| 919005-14-4 | ADONA | 3.7 U | 7.4 | 3.7 | 1.7 | ng/l |
| 377-73-1 | PFMPA | 1.9 U | 7.4 | 1.9 | 0.93 | ng/l |
| 863090-89-5 | PFMBA | 3.7 U | 7.4 | 3.7 | 1.1 | ng/l |
| 151772-58-6 | NFDHA | 3.7 U | 7.4 | 3.7 | 1.1 | ng/l |

PER and POLYFLUOROETHER SULFONIC ACIDS

| | | | | | | |
|-------------|----------------------------|-------|-----|-----|------|------|
| 756426-58-1 | 9Cl-PF3ONS (F-53B Major) | 3.7 U | 7.4 | 3.7 | 1.3 | ng/l |
| 763051-92-9 | 11Cl-PF3OUdS (F-53B Minor) | 3.7 U | 7.4 | 3.7 | 1.6 | ng/l |
| 113507-82-7 | PFEESA | 1.9 U | 7.4 | 1.9 | 0.72 | ng/l |

FLUOROTELOMER CARBOXYLIC ACIDS

| | | | | | | |
|-------------|-------------------------------|-------|----|-----|-----|------|
| 356-02-5 | 3:3 Fluorotelomer carboxylate | 9.3 U | 19 | 9.3 | 4.2 | ng/l |
| 914637-49-3 | 5:3 Fluorotelomer carboxylate | 19 U | 93 | 19 | 8.1 | ng/l |
| 812-70-4 | 7:3 Fluorotelomer carboxylate | 19 U | 93 | 19 | 7.3 | ng/l |

CAS No. ID Standard Recoveries Run# 1 Run# 2 Limits

| | | |
|-------------|------|---------|
| 13C4-PFBA | 101% | 20-150% |
| 13C5-PFPeA | 102% | 20-150% |
| 13C5-PFHxA | 101% | 20-150% |
| 13C4-PFHpA | 99% | 20-150% |
| 13C8-PFOA | 109% | 20-150% |
| 13C9-PFNA | 103% | 20-150% |
| 13C6-PFDA | 98% | 20-150% |
| 13C7-PFUnDA | 98% | 20-150% |
| 13C2-PFDoDA | 88% | 20-150% |
| 13C2-PFTeDA | 87% | 20-150% |
| 13C3-PFBS | 99% | 20-150% |
| 13C3-PFHxS | 102% | 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-RHMW04-WGN01LF-2305W4 | | Date Sampled: | 05/22/23 |
| Lab Sample ID: | FC6278-3 | | Date Received: | 05/23/23 |
| Matrix: | AQ - Ground Water | | Percent Solids: | n/a |
| Method: | EPA DRAFT 1633 EPA 1633 DRAFT | | | |
| Project: | N6274223F0104 RH Fire Suppression System | | | |

| CAS No. | ID Standard Recoveries | Run# 1 | Run# 2 | Limits |
|---------|------------------------|--------|--------|---------|
| | 13C8-PFOS | 108% | | 20-150% |
| | 13C8-FOSA | 89% | | 20-150% |
| | d3-MeFOSA | 91% | | 20-150% |
| | d5-EtFOSA | 98% | | 20-150% |
| | d3-MeFOSAA | 103% | | 20-150% |
| | d5-EtFOSAA | 97% | | 20-150% |
| | d7-MeFOSE | 83% | | 20-150% |
| | d9-EtFOSE | 93% | | 20-150% |
| | 13C2-4:2FTS | 104% | | 20-180% |
| | 13C2-6:2FTS | 105% | | 20-180% |
| | 13C2-8:2FTS | 97% | | 20-180% |
| | 13C3-HFPO-DA | 101% | | 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-RHMW06-WGN01LF-2305W4 | | |
| Lab Sample ID: | FC6278-4 | Date Sampled: | 05/22/23 |
| Matrix: | AQ - Ground Water | Date Received: | 05/23/23 |
| 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 | 6Q18607.D | 1 | 05/31/23 22:20 | MV | 05/25/23 13:00 | OP97070 | S6Q279 |
| Run #2 | | | | | | | |

| Run # | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 570 ml | 5.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | LOQ | LOD | DL | Units | Q |
|---------|----------|--------|-----|-----|----|-------|---|
|---------|----------|--------|-----|-----|----|-------|---|

PERFLUOROALKYL CARBOXYLIC ACIDS

| | | | | | | | |
|------------|-----------------------------|--------|-----|------|------|------|--|
| 375-22-4 | Perfluorobutanoic acid | 3.5 U | 14 | 3.5 | 1.7 | ng/l | |
| 2706-90-3 | Perfluoropentanoic acid | 1.8 U | 7.0 | 1.8 | 0.82 | ng/l | |
| 307-24-4 | Perfluorohexanoic acid | 1.8 U | 3.5 | 1.8 | 0.44 | ng/l | |
| 375-85-9 | Perfluoroheptanoic acid | 1.8 U | 3.5 | 1.8 | 0.44 | ng/l | |
| 335-67-1 | Perfluorooctanoic acid | 0.88 U | 3.5 | 0.88 | 0.44 | ng/l | |
| 375-95-1 | Perfluorononanoic acid | 1.8 U | 3.5 | 1.8 | 0.54 | ng/l | |
| 335-76-2 | Perfluorodecanoic acid | 1.8 U | 3.5 | 1.8 | 0.44 | ng/l | |
| 2058-94-8 | Perfluoroundecanoic acid | 1.8 U | 3.5 | 1.8 | 0.53 | ng/l | |
| 307-55-1 | Perfluorododecanoic acid | 1.8 U | 3.5 | 1.8 | 0.53 | ng/l | |
| 72629-94-8 | Perfluorotridecanoic acid | 1.8 U | 3.5 | 1.8 | 0.74 | ng/l | |
| 376-06-7 | Perfluorotetradecanoic acid | 1.8 U | 3.5 | 1.8 | 0.44 | ng/l | |

PERFLUOROALKYL SULFONIC ACIDS

| | | | | | | | |
|------------|-------------------------------|-------|-----|-----|------|------|--|
| 375-73-5 | Perfluorobutanesulfonic acid | 1.8 U | 3.5 | 1.8 | 0.44 | ng/l | |
| 2706-91-4 | Perfluoropentanesulfonic acid | 3.5 U | 4.4 | 3.5 | 0.98 | ng/l | |
| 355-46-4 | Perfluorohexanesulfonic acid | 1.8 U | 3.5 | 1.8 | 0.61 | ng/l | |
| 375-92-8 | Perfluoroheptanesulfonic acid | 1.8 U | 3.5 | 1.8 | 0.44 | ng/l | |
| 1763-23-1 | Perfluorooctanesulfonic acid | 1.8 U | 3.5 | 1.8 | 0.47 | ng/l | |
| 68259-12-1 | Perfluorononanesulfonic acid | 1.8 U | 3.5 | 1.8 | 0.50 | ng/l | |
| 335-77-3 | Perfluorodecanesulfonic acid | 1.8 U | 3.5 | 1.8 | 0.56 | ng/l | |
| 79780-39-5 | Perfluorododecanesulfonic aci | 3.5 U | 4.4 | 3.5 | 1.0 | ng/l | |

FLUOROTELOMER SULFONIC ACIDS

| | | | | | | | |
|-------------|-----------------------------|-------|----|-----|-----|------|--|
| 757124-72-4 | 4:2 Fluorotelomer sulfonate | 7.0 U | 18 | 7.0 | 2.8 | ng/l | |
| 27619-97-2 | 6:2 Fluorotelomer sulfonate | 7.0 U | 18 | 7.0 | 3.0 | ng/l | |
| 39108-34-4 | 8:2 Fluorotelomer sulfonate | 7.0 U | 18 | 7.0 | 3.6 | ng/l | |

PERFLUOROOCCTANE SULFONAMIDES

| | | | | | | | |
|------------|--------|-------|-----|-----|------|------|--|
| 754-91-6 | PFOSA | 1.8 U | 3.5 | 1.8 | 0.59 | ng/l | |
| 31506-32-8 | MeFOSA | 3.5 U | 7.0 | 3.5 | 0.88 | ng/l | |
| 4151-50-2 | EtFOSA | 3.5 U | 7.0 | 3.5 | 0.88 | 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

4.4
4

Report of Analysis

| | | | |
|-------------------|--|-----------------|----------|
| Client Sample ID: | AF-RHMW06-WGN01LF-2305W4 | | |
| Lab Sample ID: | FC6278-4 | Date Sampled: | 05/22/23 |
| Matrix: | AQ - Ground Water | Date Received: | 05/23/23 |
| 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 |
|---------|----------|--------|-----|-----|----|-------|---|
|---------|----------|--------|-----|-----|----|-------|---|

PERFLUOROOCCTANE SULFONAMIDOACETIC ACIDS

| | | | | | | | |
|-----------|---------|-------|-----|-----|------|------|--|
| 2355-31-9 | MeFOSAA | 3.5 U | 4.4 | 3.5 | 0.88 | ng/l | |
| 2991-50-6 | EtFOSAA | 3.5 U | 4.4 | 3.5 | 1.2 | ng/l | |

PERFLUOROOCCTANE SULFONAMIDO ETHANOLS

| | | | | | | | |
|------------|--------|------|----|----|-----|------|--|
| 24448-09-7 | MeFOSE | 18 U | 35 | 18 | 3.8 | ng/l | |
| 1691-99-2 | EtFOSE | 18 U | 35 | 18 | 6.5 | ng/l | |

PER and POLYFLUOROETHER CARBOXYLIC ACIDS

| | | | | | | | |
|-------------|----------------|-------|-----|-----|------|------|--|
| 13252-13-6 | HFPO-DA (GenX) | 1.8 U | 3.5 | 1.8 | 0.88 | ng/l | |
| 919005-14-4 | ADONA | 3.5 U | 7.0 | 3.5 | 1.6 | ng/l | |
| 377-73-1 | PFMPA | 1.8 U | 7.0 | 1.8 | 0.88 | ng/l | |
| 863090-89-5 | PFMBA | 3.5 U | 7.0 | 3.5 | 1.0 | ng/l | |
| 151772-58-6 | NFDHA | 3.5 U | 7.0 | 3.5 | 1.1 | ng/l | |

PER and POLYFLUOROETHER SULFONIC ACIDS

| | | | | | | | |
|-------------|----------------------------|-------|-----|-----|------|------|--|
| 756426-58-1 | 9Cl-PF3ONS (F-53B Major) | 3.5 U | 7.0 | 3.5 | 1.2 | ng/l | |
| 763051-92-9 | 11Cl-PF3OUdS (F-53B Minor) | 3.5 U | 7.0 | 3.5 | 1.5 | ng/l | |
| 113507-82-7 | PFEESA | 1.8 U | 7.0 | 1.8 | 0.68 | ng/l | |

FLUOROTELOMER CARBOXYLIC ACIDS

| | | | | | | | |
|-------------|-------------------------------|-------|----|-----|-----|------|--|
| 356-02-5 | 3:3 Fluorotelomer carboxylate | 8.8 U | 18 | 8.8 | 4.0 | ng/l | |
| 914637-49-3 | 5:3 Fluorotelomer carboxylate | 18 U | 88 | 18 | 7.7 | ng/l | |
| 812-70-4 | 7:3 Fluorotelomer carboxylate | 18 U | 88 | 18 | 6.9 | ng/l | |

| CAS No. | ID Standard Recoveries | Run# 1 | Run# 2 | Limits |
|---------|------------------------|--------|--------|--------|
|---------|------------------------|--------|--------|--------|

| | | | | |
|--|-------------|------|--|---------|
| | 13C4-PFBA | 99% | | 20-150% |
| | 13C5-PFPeA | 101% | | 20-150% |
| | 13C5-PFHxA | 99% | | 20-150% |
| | 13C4-PFHpA | 101% | | 20-150% |
| | 13C8-PFOA | 102% | | 20-150% |
| | 13C9-PFNA | 98% | | 20-150% |
| | 13C6-PFDA | 102% | | 20-150% |
| | 13C7-PFUnDA | 100% | | 20-150% |
| | 13C2-PFDoDA | 97% | | 20-150% |
| | 13C2-PFTeDA | 89% | | 20-150% |
| | 13C3-PFBS | 104% | | 20-150% |
| | 13C3-PFHxS | 95% | | 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

4.4
4

Report of Analysis

| | | | |
|--------------------------|--|------------------------|----------|
| Client Sample ID: | AF-RHMW06-WGN01LF-2305W4 | | |
| Lab Sample ID: | FC6278-4 | Date Sampled: | 05/22/23 |
| Matrix: | AQ - Ground Water | Date Received: | 05/23/23 |
| 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 | 93% | | 20-150% |
| | 13C8-FOSA | 88% | | 20-150% |
| | d3-MeFOSA | 80% | | 20-150% |
| | d5-EtFOSA | 87% | | 20-150% |
| | d3-MeFOSAA | 94% | | 20-150% |
| | d5-EtFOSAA | 90% | | 20-150% |
| | d7-MeFOSE | 85% | | 20-150% |
| | d9-EtFOSE | 92% | | 20-150% |
| | 13C2-4:2FTS | 101% | | 20-180% |
| | 13C2-6:2FTS | 103% | | 20-180% |
| | 13C2-8:2FTS | 97% | | 20-180% |
| | 13C3-HFPO-DA | 102% | | 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-RHMW16-WGN01LF-2305W4 | | |
| Lab Sample ID: | FC6278-5 | Date Sampled: | 05/22/23 |
| Matrix: | AQ - Ground Water | Date Received: | 05/23/23 |
| 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 | 6Q18611.D | 1 | 05/31/23 23:18 | MV | 05/25/23 13:00 | OP97070 | S6Q279 |
| Run #2 | | | | | | | |

| Run # | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 540 ml | 5.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | LOQ | LOD | DL | Units | Q |
|---------|----------|--------|-----|-----|----|-------|---|
|---------|----------|--------|-----|-----|----|-------|---|

PERFLUOROALKYL CARBOXYLIC ACIDS

| | | | | | | | |
|------------|-----------------------------|--------|-----|------|------|------|--|
| 375-22-4 | Perfluorobutanoic acid | 3.7 U | 15 | 3.7 | 1.8 | ng/l | |
| 2706-90-3 | Perfluoropentanoic acid | 1.9 U | 7.4 | 1.9 | 0.87 | ng/l | |
| 307-24-4 | Perfluorohexanoic acid | 1.9 U | 3.7 | 1.9 | 0.46 | ng/l | |
| 375-85-9 | Perfluoroheptanoic acid | 1.9 U | 3.7 | 1.9 | 0.46 | ng/l | |
| 335-67-1 | Perfluorooctanoic acid | 0.93 U | 3.7 | 0.93 | 0.46 | ng/l | |
| 375-95-1 | Perfluorononanoic acid | 1.9 U | 3.7 | 1.9 | 0.56 | ng/l | |
| 335-76-2 | Perfluorodecanoic acid | 1.9 U | 3.7 | 1.9 | 0.46 | ng/l | |
| 2058-94-8 | Perfluoroundecanoic acid | 1.9 U | 3.7 | 1.9 | 0.56 | ng/l | |
| 307-55-1 | Perfluorododecanoic acid | 1.9 U | 3.7 | 1.9 | 0.56 | ng/l | |
| 72629-94-8 | Perfluorotridecanoic acid | 1.9 U | 3.7 | 1.9 | 0.78 | ng/l | |
| 376-06-7 | Perfluorotetradecanoic acid | 1.9 U | 3.7 | 1.9 | 0.46 | ng/l | |

PERFLUOROALKYL SULFONIC ACIDS

| | | | | | | | |
|------------|-------------------------------|-------|-----|-----|------|------|--|
| 375-73-5 | Perfluorobutanesulfonic acid | 1.9 U | 3.7 | 1.9 | 0.46 | ng/l | |
| 2706-91-4 | Perfluoropentanesulfonic acid | 3.7 U | 4.6 | 3.7 | 1.0 | ng/l | |
| 355-46-4 | Perfluorohexanesulfonic acid | 1.9 U | 3.7 | 1.9 | 0.65 | ng/l | |
| 375-92-8 | Perfluoroheptanesulfonic acid | 1.9 U | 3.7 | 1.9 | 0.46 | ng/l | |
| 1763-23-1 | Perfluorooctanesulfonic acid | 1.9 U | 3.7 | 1.9 | 0.50 | ng/l | |
| 68259-12-1 | Perfluorononanesulfonic acid | 1.9 U | 3.7 | 1.9 | 0.53 | ng/l | |
| 335-77-3 | Perfluorodecanesulfonic acid | 1.9 U | 3.7 | 1.9 | 0.59 | ng/l | |
| 79780-39-5 | Perfluorododecanesulfonic aci | 3.7 U | 4.6 | 3.7 | 1.1 | ng/l | |

FLUOROTELOMER SULFONIC ACIDS

| | | | | | | | |
|-------------|-----------------------------|-------|----|-----|-----|------|--|
| 757124-72-4 | 4:2 Fluorotelomer sulfonate | 7.4 U | 19 | 7.4 | 3.0 | ng/l | |
| 27619-97-2 | 6:2 Fluorotelomer sulfonate | 7.4 U | 19 | 7.4 | 3.2 | ng/l | |
| 39108-34-4 | 8:2 Fluorotelomer sulfonate | 7.4 U | 19 | 7.4 | 3.8 | ng/l | |

PERFLUOROOCCTANE SULFONAMIDES

| | | | | | | | |
|------------|--------|-------|-----|-----|------|------|--|
| 754-91-6 | PFOSA | 1.9 U | 3.7 | 1.9 | 0.62 | ng/l | |
| 31506-32-8 | MeFOSA | 3.7 U | 7.4 | 3.7 | 0.93 | ng/l | |
| 4151-50-2 | EtFOSA | 3.7 U | 7.4 | 3.7 | 0.93 | 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

4.5
4

Report of Analysis

| | | | |
|-------------------|--|-----------------|----------|
| Client Sample ID: | AF-RHMW16-WGN01LF-2305W4 | | |
| Lab Sample ID: | FC6278-5 | Date Sampled: | 05/22/23 |
| Matrix: | AQ - Ground Water | Date Received: | 05/23/23 |
| 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 |
|---------|----------|--------|-----|-----|----|-------|---|
|---------|----------|--------|-----|-----|----|-------|---|

PERFLUOROOCCTANE SULFONAMIDOACETIC ACIDS

| | | | | | | | |
|-----------|---------|-------|-----|-----|------|------|--|
| 2355-31-9 | MeFOSAA | 3.7 U | 4.6 | 3.7 | 0.93 | ng/l | |
| 2991-50-6 | EtFOSAA | 3.7 U | 4.6 | 3.7 | 1.2 | ng/l | |

PERFLUOROOCCTANE SULFONAMIDO ETHANOLS

| | | | | | | | |
|------------|--------|------|----|----|-----|------|--|
| 24448-09-7 | MeFOSE | 19 U | 37 | 19 | 4.1 | ng/l | |
| 1691-99-2 | EtFOSE | 19 U | 37 | 19 | 6.9 | ng/l | |

PER and POLYFLUOROETHER CARBOXYLIC ACIDS

| | | | | | | | |
|-------------|----------------|-------|-----|-----|------|------|--|
| 13252-13-6 | HFPO-DA (GenX) | 1.9 U | 3.7 | 1.9 | 0.93 | ng/l | |
| 919005-14-4 | ADONA | 3.7 U | 7.4 | 3.7 | 1.7 | ng/l | |
| 377-73-1 | PFMPA | 1.9 U | 7.4 | 1.9 | 0.93 | ng/l | |
| 863090-89-5 | PFMBA | 3.7 U | 7.4 | 3.7 | 1.1 | ng/l | |
| 151772-58-6 | NFDHA | 3.7 U | 7.4 | 3.7 | 1.1 | ng/l | |

PER and POLYFLUOROETHER SULFONIC ACIDS

| | | | | | | | |
|-------------|----------------------------|-------|-----|-----|------|------|--|
| 756426-58-1 | 9Cl-PF3ONS (F-53B Major) | 3.7 U | 7.4 | 3.7 | 1.3 | ng/l | |
| 763051-92-9 | 11Cl-PF3OUdS (F-53B Minor) | 3.7 U | 7.4 | 3.7 | 1.6 | ng/l | |
| 113507-82-7 | PFEESA | 1.9 U | 7.4 | 1.9 | 0.72 | ng/l | |

FLUOROTELOMER CARBOXYLIC ACIDS

| | | | | | | | |
|-------------|-------------------------------|-------|----|-----|-----|------|--|
| 356-02-5 | 3:3 Fluorotelomer carboxylate | 9.3 U | 19 | 9.3 | 4.2 | ng/l | |
| 914637-49-3 | 5:3 Fluorotelomer carboxylate | 19 U | 93 | 19 | 8.1 | ng/l | |
| 812-70-4 | 7:3 Fluorotelomer carboxylate | 19 U | 93 | 19 | 7.3 | ng/l | |

| CAS No. | ID Standard Recoveries | Run# 1 | Run# 2 | Limits |
|---------|------------------------|--------|--------|--------|
|---------|------------------------|--------|--------|--------|

| | | |
|-------------|------|---------|
| 13C4-PFBA | 87% | 20-150% |
| 13C5-PFPeA | 110% | 20-150% |
| 13C5-PFHxA | 110% | 20-150% |
| 13C4-PFHpA | 109% | 20-150% |
| 13C8-PFOA | 107% | 20-150% |
| 13C9-PFNA | 111% | 20-150% |
| 13C6-PFDA | 113% | 20-150% |
| 13C7-PFUnDA | 104% | 20-150% |
| 13C2-PFDoDA | 96% | 20-150% |
| 13C2-PFTeDA | 96% | 20-150% |
| 13C3-PFBS | 111% | 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

| | | |
|-------------------|--|-------------------------|
| Client Sample ID: | AF-RHMW16-WGN01LF-2305W4 | |
| Lab Sample ID: | FC6278-5 | Date Sampled: 05/22/23 |
| Matrix: | AQ - Ground Water | Date Received: 05/23/23 |
| 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 | 102% | | 20-150% |
| | 13C8-FOSA | 84% | | 20-150% |
| | d3-MeFOSA | 78% | | 20-150% |
| | d5-EtFOSA | 84% | | 20-150% |
| | d3-MeFOSAA | 103% | | 20-150% |
| | d5-EtFOSAA | 101% | | 20-150% |
| | d7-MeFOSE | 78% | | 20-150% |
| | d9-EtFOSE | 90% | | 20-150% |
| | 13C2-4:2FTS | 112% | | 20-180% |
| | 13C2-6:2FTS | 116% | | 20-180% |
| | 13C2-8:2FTS | 110% | | 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

Includes the following where applicable:

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

SGS Sample Receipt Summary

Job Number: FC6278

Client: AECOM

Project: N6274223F0104 RH Fire Suppression System

Date / Time Received: 5/23/2023 2:00:00 PM

Delivery Method: United Cargo/Airspace

Airbill #'s: United Cargo AWB #: 016-94667591

Therm ID: IR 1;

Therm CF: -0.1;

of Coolers: 1

Cooler Temps (Raw Measured) °C: Cooler 1: (2.7);

Cooler Temps (Corrected) °C: Cooler 1: (2.6);

Cooler Information

Y or N

- | | | |
|-----------------------------|-------------------------------------|--------------------------|
| 1. Custody Seals Present | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Custody Seals Intact | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Temp criteria achieved | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 4. Cooler temp verification | IR Gun | |
| 5. Cooler media | Ice (Bag) | |

Trip Blank Information

Y or N

N/A

- | | | | |
|--------------------------------|--------------------------|--------------------------|-------------------------------------|
| 1. Trip Blank present / cooler | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 2. Trip Blank listed on COC | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| | <u>W or S</u> | | <u>N/A</u> |
| 3. Type Of TB Received | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Sample Information

Y or N

N/A

- | | | | |
|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 1. Sample labels present on bottles | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 2. Samples preserved properly | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 3. Sufficient volume/containers recvd for analysis: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4. Condition of sample | Intact | | |
| 5. Sample recvd within HT | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 6. Dates/Times/IDs on COC match Sample Label | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 7. VOCs have headspace | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 8. Bottles received for unspecified tests | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 9. Compositing instructions clear | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 10. Voa Soil Kits/Jars received past 48hrs? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 11. % Solids Jar received? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 12. Residual Chlorine Present? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Misc. Information

Number of Encores: 25-Gram _____ 5-Gram _____ Number of 5035 Field Kits: _____ Number of Lab Filtered Metals: _____
 Test Strip Lot #: 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: SHAYLAP

Date: 5/23/2023 2:00:00 PM

Reviewer: SP

Date: 5/25/2023

FC6278: Chain of Custody

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5.1
5

QC Evaluation: DOD QSM5.x Limits

Job Number: FC6278
Account: AECOM, INC.
Project: N6274223F0104 RH Fire Suppression System
Collected: 05/22/23

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

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

* Sample used for QC is not from job FC6278

5.2
5

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: FC6278
 Account: AECOMCOD AECOM, INC.
 Project: N6274223F0104 RH Fire Suppression System

| | | | | | | | |
|-------------|-----------|----|----------|----|-----------|------------|------------------|
| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
| S6Q279-IBLK | 6Q18594.D | 1 | 05/31/23 | MV | n/a | n/a | S6Q279 |

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

FC6278-1, FC6278-2, FC6278-3, FC6278-4, FC6278-5

| 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 | |

Instrument Blank

Job Number: FC6278
 Account: AECOMCOD AECOM, INC.
 Project: N6274223F0104 RH Fire Suppression System

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-------------|-----------|----|----------|----|-----------|------------|------------------|
| S6Q279-IBLK | 6Q18594.D | 1 | 05/31/23 | MV | n/a | n/a | S6Q279 |

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

FC6278-1, FC6278-2, FC6278-3, FC6278-4, FC6278-5

| 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 | 103% 20-150% |
| | 13C5-PFHxA | 103% 20-150% |
| | 13C4-PFHpA | 102% 20-150% |
| | 13C8-PFOA | 98% 20-150% |
| | 13C9-PFNA | 92% 20-150% |
| | 13C6-PFDA | 89% 20-150% |
| | 13C7-PFUnDA | 97% 20-150% |
| | 13C2-PFDoDA | 97% 20-150% |
| | 13C2-PFTeDA | 89% 20-150% |
| | 13C3-PFBS | 103% 20-150% |
| | 13C3-PFHxS | 103% 20-150% |
| | 13C8-PFOS | 96% 20-150% |
| | 13C8-FOSA | 105% 20-150% |
| | d3-MeFOSA | 100% 20-150% |
| | d5-EtFOSA | 102% 20-150% |
| | d3-MeFOSAA | 99% 20-150% |
| | d5-EtFOSAA | 102% 20-150% |
| | d7-MeFOSE | 102% 20-150% |
| | d9-EtFOSE | 103% 20-150% |
| | 13C2-4:2FTS | 107% 20-180% |
| | 13C2-6:2FTS | 104% 20-180% |
| | 13C2-8:2FTS | 111% 20-180% |
| | 13C3-HFPO-DA | 100% 20-150% |

6.1.1
6

Continuing Calibration Blank

Job Number: FC6278
 Account: AECOMCOD AECOM, INC.
 Project: N6274223F0104 RH Fire Suppression System

| | | | | | | | |
|-------------|-----------|----|----------|----|-----------|------------|------------------|
| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
| S6Q279-ICCB | 6Q18610.D | 1 | 05/31/23 | MV | n/a | n/a | S6Q279 |

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

FC6278-5

| 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: FC6278
 Account: AECOMCOD AECOM, INC.
 Project: N6274223F0104 RH Fire Suppression System

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-------------|-----------|----|----------|----|-----------|------------|------------------|
| S6Q279-ICCB | 6Q18610.D | 1 | 05/31/23 | MV | n/a | n/a | S6Q279 |

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

FC6278-5

| 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 | 104% 20-150% |
| | 13C5-PFHxA | 100% 20-150% |
| | 13C4-PFHpA | 107% 20-150% |
| | 13C8-PFOA | 97% 20-150% |
| | 13C9-PFNA | 93% 20-150% |
| | 13C6-PFDA | 99% 20-150% |
| | 13C7-PFUnDA | 102% 20-150% |
| | 13C2-PFDoDA | 98% 20-150% |
| | 13C2-PFTeDA | 103% 20-150% |
| | 13C3-PFBS | 96% 20-150% |
| | 13C3-PFHxS | 94% 20-150% |
| | 13C8-PFOS | 94% 20-150% |
| | 13C8-FOSA | 97% 20-150% |
| | d3-MeFOSA | 95% 20-150% |
| | d5-EtFOSA | 101% 20-150% |
| | d3-MeFOSAA | 102% 20-150% |
| | d5-EtFOSAA | 95% 20-150% |
| | d7-MeFOSE | 101% 20-150% |
| | d9-EtFOSE | 101% 20-150% |
| | 13C2-4:2FTS | 107% 20-180% |
| | 13C2-6:2FTS | 100% 20-180% |
| | 13C2-8:2FTS | 103% 20-180% |
| | 13C3-HFPO-DA | 103% 20-150% |

Method Blank Summary

Job Number: FC6278
 Account: AECOMCOD AECOM, INC.
 Project: N6274223F0104 RH Fire Suppression System

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|------------|-----------|----|----------|----|-----------|------------|------------------|
| OP97070-MB | 6Q18544.D | 1 | 05/30/23 | MV | 05/25/23 | OP97070 | S6Q278 |

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

FC6278-1, FC6278-2, FC6278-3, FC6278-4, FC6278-5

| 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: FC6278
 Account: AECOMCOD AECOM, INC.
 Project: N6274223F0104 RH Fire Suppression System

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|------------|-----------|----|----------|----|-----------|------------|------------------|
| OP97070-MB | 6Q18544.D | 1 | 05/30/23 | MV | 05/25/23 | OP97070 | S6Q278 |

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

FC6278-1, FC6278-2, FC6278-3, FC6278-4, FC6278-5

| 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 | 102% 20-150% |
| | 13C5-PFPeA | 98% 20-150% |
| | 13C5-PFHxA | 102% 20-150% |
| | 13C4-PFHpA | 100% 20-150% |
| | 13C8-PFOA | 102% 20-150% |
| | 13C9-PFNA | 102% 20-150% |
| | 13C6-PFDA | 100% 20-150% |
| | 13C7-PFUnDA | 105% 20-150% |
| | 13C2-PFDoDA | 100% 20-150% |
| | 13C2-PFTeDA | 94% 20-150% |
| | 13C3-PFBS | 99% 20-150% |
| | 13C3-PFHxS | 101% 20-150% |
| | 13C8-PFOS | 96% 20-150% |
| | 13C8-FOSA | 75% 20-150% |
| | d3-MeFOSA | 77% 20-150% |
| | d5-EtFOSA | 84% 20-150% |
| | d3-MeFOSAA | 116% 20-150% |
| | d5-EtFOSAA | 103% 20-150% |
| | d7-MeFOSE | 70% 20-150% |
| | d9-EtFOSE | 77% 20-150% |
| | 13C2-4:2FTS | 117% 20-180% |
| | 13C2-6:2FTS | 116% 20-180% |
| | 13C2-8:2FTS | 114% 20-180% |
| | 13C3-HFPO-DA | 97% 20-150% |

Method Blank Summary

Job Number: FC6278
 Account: AECOMCOD AECOM, INC.
 Project: N6274223F0104 RH Fire Suppression System

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|------------|-----------|----|----------|----|-----------|------------|------------------|
| OP97070-MB | 6Q18601.D | 1 | 05/31/23 | MV | 05/25/23 | OP97070 | S6Q279 |

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

FC6278-1, FC6278-2, FC6278-3, FC6278-4, FC6278-5

| 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: FC6278
 Account: AECOMCOD AECOM, INC.
 Project: N6274223F0104 RH Fire Suppression System

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|------------|-----------|----|----------|----|-----------|------------|------------------|
| OP97070-MB | 6Q18601.D | 1 | 05/31/23 | MV | 05/25/23 | OP97070 | S6Q279 |

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

FC6278-1, FC6278-2, FC6278-3, FC6278-4, FC6278-5

| 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 | 103% 20-150% |
| | 13C5-PFPeA | 103% 20-150% |
| | 13C5-PFHxA | 102% 20-150% |
| | 13C4-PFHpA | 107% 20-150% |
| | 13C8-PFOA | 103% 20-150% |
| | 13C9-PFNA | 98% 20-150% |
| | 13C6-PFDA | 104% 20-150% |
| | 13C7-PFUnDA | 100% 20-150% |
| | 13C2-PFDoDA | 97% 20-150% |
| | 13C2-PFTeDA | 102% 20-150% |
| | 13C3-PFBS | 98% 20-150% |
| | 13C3-PFHxS | 94% 20-150% |
| | 13C8-PFOS | 90% 20-150% |
| | 13C8-FOSA | 75% 20-150% |
| | d3-MeFOSA | 75% 20-150% |
| | d5-EtFOSA | 83% 20-150% |
| | d3-MeFOSAA | 96% 20-150% |
| | d5-EtFOSAA | 88% 20-150% |
| | d7-MeFOSE | 68% 20-150% |
| | d9-EtFOSE | 80% 20-150% |
| | 13C2-4:2FTS | 109% 20-180% |
| | 13C2-6:2FTS | 105% 20-180% |
| | 13C2-8:2FTS | 102% 20-180% |
| | 13C3-HFPO-DA | 101% 20-150% |

Instrument Blank

Job Number: FC6278
 Account: AECOMCOD AECOM, INC.
 Project: N6274223F0104 RH Fire Suppression System

| | | | | | | | |
|-------------|-----------|----|----------|----|-----------|------------|------------------|
| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
| S6Q278-IBLK | 6Q18522.D | 1 | 05/30/23 | MV | n/a | n/a | S6Q278 |

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

OP97070-BS, OP97070-LLBS

| 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 | |

Instrument Blank

Job Number: FC6278
 Account: AECOMCOD AECOM, INC.
 Project: N6274223F0104 RH Fire Suppression System

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-------------|-----------|----|----------|----|-----------|------------|------------------|
| S6Q278-IBLK | 6Q18522.D | 1 | 05/30/23 | MV | n/a | n/a | S6Q278 |

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

OP97070-BS, OP97070-LLBS

| 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 | 99% 20-150% |
| | 13C5-PFHxA | 100% 20-150% |
| | 13C4-PFHpA | 98% 20-150% |
| | 13C8-PFOA | 99% 20-150% |
| | 13C9-PFNA | 109% 20-150% |
| | 13C6-PFDA | 102% 20-150% |
| | 13C7-PFUnDA | 95% 20-150% |
| | 13C2-PFDoDA | 97% 20-150% |
| | 13C2-PFTeDA | 98% 20-150% |
| | 13C3-PFBS | 103% 20-150% |
| | 13C3-PFHxS | 105% 20-150% |
| | 13C8-PFOS | 98% 20-150% |
| | 13C8-FOSA | 101% 20-150% |
| | d3-MeFOSA | 97% 20-150% |
| | d5-EtFOSA | 103% 20-150% |
| | d3-MeFOSAA | 109% 20-150% |
| | d5-EtFOSAA | 104% 20-150% |
| | d7-MeFOSE | 104% 20-150% |
| | d9-EtFOSE | 101% 20-150% |
| | 13C2-4:2FTS | 104% 20-180% |
| | 13C2-6:2FTS | 102% 20-180% |
| | 13C2-8:2FTS | 100% 20-180% |
| | 13C3-HFPO-DA | 98% 20-150% |

6.1.5
6

Continuing Calibration Blank

Job Number: FC6278
 Account: AECOMCOD AECOM, INC.
 Project: N6274223F0104 RH Fire Suppression System

| | | | | | | | |
|-------------|-----------|----|----------|----|-----------|------------|------------------|
| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
| S6Q278-ICCB | 6Q18536.D | 1 | 05/30/23 | MV | n/a | n/a | S6Q278 |

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

OP97070-BS, OP97070-LLBS, OP97070-MB

| 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: FC6278
 Account: AECOMCOD AECOM, INC.
 Project: N6274223F0104 RH Fire Suppression System

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-------------|-----------|----|----------|----|-----------|------------|------------------|
| S6Q278-ICCB | 6Q18536.D | 1 | 05/30/23 | MV | n/a | n/a | S6Q278 |

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

OP97070-BS, OP97070-LLBS, OP97070-MB

| 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 | 99% 20-150% |
| | 13C5-PFHxA | 98% 20-150% |
| | 13C4-PFHpA | 100% 20-150% |
| | 13C8-PFOA | 102% 20-150% |
| | 13C9-PFNA | 102% 20-150% |
| | 13C6-PFDA | 100% 20-150% |
| | 13C7-PFUnDA | 99% 20-150% |
| | 13C2-PFDoDA | 101% 20-150% |
| | 13C2-PFTeDA | 96% 20-150% |
| | 13C3-PFBS | 101% 20-150% |
| | 13C3-PFHxS | 101% 20-150% |
| | 13C8-PFOS | 104% 20-150% |
| | 13C8-FOSA | 109% 20-150% |
| | d3-MeFOSA | 102% 20-150% |
| | d5-EtFOSA | 101% 20-150% |
| | d3-MeFOSAA | 103% 20-150% |
| | d5-EtFOSAA | 105% 20-150% |
| | d7-MeFOSE | 103% 20-150% |
| | d9-EtFOSE | 91% 20-150% |
| | 13C2-4:2FTS | 111% 20-180% |
| | 13C2-6:2FTS | 114% 20-180% |
| | 13C2-8:2FTS | 121% 20-180% |
| | 13C3-HFPO-DA | 92% 20-150% |

Continuing Calibration Blank

Job Number: FC6278
 Account: AECOMCOD AECOM, INC.
 Project: N6274223F0104 RH Fire Suppression System

| | | | | | | | |
|-------------|-----------|----|----------|----|-----------|------------|------------------|
| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
| S6Q278-ICCB | 6Q18547.D | 1 | 05/30/23 | MV | n/a | n/a | S6Q278 |

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

OP97070-BS, OP97070-LLBS, OP97070-MB

| 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: FC6278
 Account: AECOMCOD AECOM, INC.
 Project: N6274223F0104 RH Fire Suppression System

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-------------|-----------|----|----------|----|-----------|------------|------------------|
| S6Q278-ICCB | 6Q18547.D | 1 | 05/30/23 | MV | n/a | n/a | S6Q278 |

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

OP97070-BS, OP97070-LLBS, OP97070-MB

| 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 | 100% 20-150% |
| | 13C5-PFHxA | 101% 20-150% |
| | 13C4-PFHpA | 102% 20-150% |
| | 13C8-PFOA | 95% 20-150% |
| | 13C9-PFNA | 101% 20-150% |
| | 13C6-PFDA | 100% 20-150% |
| | 13C7-PFUnDA | 106% 20-150% |
| | 13C2-PFDoDA | 101% 20-150% |
| | 13C2-PFTeDA | 100% 20-150% |
| | 13C3-PFBS | 102% 20-150% |
| | 13C3-PFHxS | 101% 20-150% |
| | 13C8-PFOS | 102% 20-150% |
| | 13C8-FOSA | 101% 20-150% |
| | d3-MeFOSA | 93% 20-150% |
| | d5-EtFOSA | 99% 20-150% |
| | d3-MeFOSAA | 104% 20-150% |
| | d5-EtFOSAA | 109% 20-150% |
| | d7-MeFOSE | 93% 20-150% |
| | d9-EtFOSE | 92% 20-150% |
| | 13C2-4:2FTS | 124% 20-180% |
| | 13C2-6:2FTS | 126% 20-180% |
| | 13C2-8:2FTS | 132% 20-180% |
| | 13C3-HFPO-DA | 100% 20-150% |

Blank Spike Summary

Job Number: FC6278
 Account: AECOMCOD AECOM, INC.
 Project: N6274223F0104 RH Fire Suppression System

| | | | | | | | |
|--------------|-----------|----|----------|----|-----------|------------|------------------|
| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
| OP97070-LLBS | 6Q18543.D | 1 | 05/30/23 | MV | 05/25/23 | OP97070 | S6Q278 |

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

FC6278-1, FC6278-2, FC6278-3, FC6278-4, FC6278-5

| CAS No. | Compound | Spike ug/l | BSP ug/l | BSP % | Limits |
|----------------|-------------------------------|---------------|-------------|----------|--------|
| 375-22-4 | Perfluorobutanoic acid | 0.03 | 0.0315 | 105 | 40-150 |
| 2706-90-3 | Perfluoropentanoic acid | 0.015 | 0.0154 | 103 | 40-150 |
| 307-24-4 | Perfluorohexanoic acid | 0.0075 | 0.0076 | 101 | 40-150 |
| 375-85-9 | Perfluoroheptanoic acid | 0.0075 | 0.0074 | 99 | 40-150 |
| 335-67-1 | Perfluorooctanoic acid | 0.0075 | 0.0078 | 104 | 40-150 |
| 375-95-1 | Perfluorononanoic acid | 0.0075 | 0.0081 | 108 | 40-150 |
| 335-76-2 | Perfluorodecanoic acid | 0.0075 | 0.0078 | 104 | 40-150 |
| 2058-94-8 | Perfluoroundecanoic acid | 0.0075 | 0.0081 | 108 | 40-150 |
| 307-55-1 | Perfluorododecanoic acid | 0.0075 | 0.0080 | 107 | 40-150 |
| 72629-94-8 | Perfluorotridecanoic acid | 0.0075 | 0.0082 | 109 | 40-150 |
| 376-06-7 | Perfluorotetradecanoic acid | 0.0075 | 0.0078 | 104 | 40-150 |
| 375-73-5 | Perfluorobutanesulfonic acid | 0.00665 | 0.0068 | 102 | 40-150 |
| 2706-91-4 | Perfluoropentanesulfonic acid | 0.00706 | 0.0074 | 105 | 40-150 |
| 355-46-4 | Perfluorohexanesulfonic acid | 0.00686 | 0.0069 | 101 | 40-150 |
| 375-92-8 | Perfluoroheptanesulfonic acid | 0.00715 | 0.0081 | 113 | 40-150 |
| 1763-23-1 | Perfluorooctanesulfonic acid | 0.00696 | 0.0076 | 109 | 40-150 |
| 68259-12-1 | Perfluorononanesulfonic acid | 0.00722 | 0.0078 | 108 | 40-150 |
| 335-77-3 | Perfluorodecanesulfonic acid | 0.00724 | 0.0079 | 109 | 40-150 |
| 79780-39-5 | Perfluorododecanesulfonic aci | 0.00728 | 0.0077 | 106 | 40-150 |
| 757124-72-44:2 | Fluorotelomer sulfonate | 0.0281 | 0.0298 | 106 | 40-150 |
| 27619-97-2 | 6:2 Fluorotelomer sulfonate | 0.0285 | 0.0313 | 110 | 40-150 |
| 39108-34-4 | 8:2 Fluorotelomer sulfonate | 0.0288 | 0.0308 | 107 | 40-150 |
| 754-91-6 | PFOSA | 0.0075 | 0.0076 | 101 | 40-150 |
| 31506-32-8 | MeFOSA | 0.015 | 0.0150 | 100 | 40-150 |
| 4151-50-2 | EtFOSA | 0.015 | 0.0143 | 95 | 40-150 |
| 2355-31-9 | MeFOSAA | 0.0075 | 0.0089 | 119 | 40-150 |
| 2991-50-6 | EtFOSAA | 0.0075 | 0.0080 | 107 | 40-150 |
| 24448-09-7 | MeFOSE | 0.0375 | 0.0360 | 96 | 40-150 |
| 1691-99-2 | EtFOSE | 0.0375 | 0.0374 | 100 | 40-150 |
| 13252-13-6 | HFPO-DA (GenX) | 0.015 | 0.0159 | 106 | 40-150 |
| 919005-14-4 | ADONA | 0.0142 | 0.0156 | 110 | 40-150 |
| 377-73-1 | PFMPA | 0.015 | 0.0152 | 101 | 40-150 |
| 863090-89-5 | PFMBA | 0.015 | 0.0156 | 104 | 40-150 |
| 151772-58-6 | NFDHA | 0.015 | 0.0156 | 104 | 40-150 |
| 756426-58-19 | Cl-PF3ONS (F-53B Major) | 0.014 | 0.0151 | 108 | 40-150 |
| 763051-92-91 | Cl-PF3OUdS (F-53B Minor) | 0.0142 | 0.0149 | 105 | 40-150 |

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FC6278
 Account: AECOMCOD AECOM, INC.
 Project: N6274223F0104 RH Fire Suppression System

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------------|-----------|----|----------|----|-----------|------------|------------------|
| OP97070-LLBS | 6Q18543.D | 1 | 05/30/23 | MV | 05/25/23 | OP97070 | S6Q278 |

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

FC6278-1, FC6278-2, FC6278-3, FC6278-4, FC6278-5

| CAS No. | Compound | Spike ug/l | BSP ug/l | BSP % | Limits |
|----------------|-------------------------------|------------|----------|-------|--------|
| 113507-82-7 | PFEESA | 0.0134 | 0.0133 | 100 | 40-150 |
| 356-02-5 | 3:3 Fluorotelomer carboxylate | 0.0375 | 0.0310 | 83 | 40-150 |
| 914637-49-35:3 | Fluorotelomer carboxylate | 0.188 | 0.176 | 94 | 40-150 |
| 812-70-4 | 7:3 Fluorotelomer carboxylate | 0.188 | 0.189 | 101 | 40-150 |

| CAS No. | ID Standard Recoveries | BSP | Limits |
|---------|------------------------|------|---------|
| | 13C4-PFBA | 111% | 20-150% |
| | 13C5-PFPeA | 114% | 20-150% |
| | 13C5-PFHxA | 115% | 20-150% |
| | 13C4-PFHpA | 116% | 20-150% |
| | 13C8-PFOA | 117% | 20-150% |
| | 13C9-PFNA | 109% | 20-150% |
| | 13C6-PFDA | 104% | 20-150% |
| | 13C7-PFUnDA | 103% | 20-150% |
| | 13C2-PFDoDA | 101% | 20-150% |
| | 13C2-PFTeDA | 97% | 20-150% |
| | 13C3-PFBS | 110% | 20-150% |
| | 13C3-PFHxS | 110% | 20-150% |
| | 13C8-PFOS | 113% | 20-150% |
| | 13C8-FOSA | 105% | 20-150% |
| | d3-MeFOSA | 101% | 20-150% |
| | d5-EtFOSA | 105% | 20-150% |
| | d3-MeFOSAA | 123% | 20-150% |
| | d5-EtFOSAA | 121% | 20-150% |
| | d7-MeFOSE | 90% | 20-150% |
| | d9-EtFOSE | 98% | 20-150% |
| | 13C2-4:2FTS | 129% | 20-180% |
| | 13C2-6:2FTS | 128% | 20-180% |
| | 13C2-8:2FTS | 131% | 20-180% |
| | 13C3-HFPO-DA | 107% | 20-150% |

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FC6278
 Account: AECOMCOD AECOM, INC.
 Project: N6274223F0104 RH Fire Suppression System

| | | | | | | | |
|--------------|-----------|----|----------|----|-----------|------------|------------------|
| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
| OP97070-LLBS | 6Q18600.D | 1 | 05/31/23 | MV | 05/25/23 | OP97070 | S6Q279 |

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

FC6278-1, FC6278-2, FC6278-3, FC6278-4, FC6278-5

| CAS No. | Compound | Spike ug/l | BSP ug/l | BSP % | Limits |
|----------------|-------------------------------|---------------|-------------|----------|--------|
| 375-22-4 | Perfluorobutanoic acid | 0.03 | 0.0312 | 104 | 40-150 |
| 2706-90-3 | Perfluoropentanoic acid | 0.015 | 0.0160 | 107 | 40-150 |
| 307-24-4 | Perfluorohexanoic acid | 0.0075 | 0.0074 | 99 | 40-150 |
| 375-85-9 | Perfluoroheptanoic acid | 0.0075 | 0.0080 | 107 | 40-150 |
| 335-67-1 | Perfluorooctanoic acid | 0.0075 | 0.0079 | 105 | 40-150 |
| 375-95-1 | Perfluorononanoic acid | 0.0075 | 0.0076 | 101 | 40-150 |
| 335-76-2 | Perfluorodecanoic acid | 0.0075 | 0.0080 | 107 | 40-150 |
| 2058-94-8 | Perfluoroundecanoic acid | 0.0075 | 0.0073 | 97 | 40-150 |
| 307-55-1 | Perfluorododecanoic acid | 0.0075 | 0.0081 | 108 | 40-150 |
| 72629-94-8 | Perfluorotridecanoic acid | 0.0075 | 0.0077 | 103 | 40-150 |
| 376-06-7 | Perfluorotetradecanoic acid | 0.0075 | 0.0084 | 112 | 40-150 |
| 375-73-5 | Perfluorobutanesulfonic acid | 0.00665 | 0.0069 | 104 | 40-150 |
| 2706-91-4 | Perfluoropentanesulfonic acid | 0.00706 | 0.0071 | 101 | 40-150 |
| 355-46-4 | Perfluorohexanesulfonic acid | 0.00686 | 0.0071 | 104 | 40-150 |
| 375-92-8 | Perfluoroheptanesulfonic acid | 0.00715 | 0.0075 | 105 | 40-150 |
| 1763-23-1 | Perfluorooctanesulfonic acid | 0.00696 | 0.0074 | 106 | 40-150 |
| 68259-12-1 | Perfluorononanesulfonic acid | 0.00722 | 0.0073 | 101 | 40-150 |
| 335-77-3 | Perfluorodecanesulfonic acid | 0.00724 | 0.0070 | 97 | 40-150 |
| 79780-39-5 | Perfluorododecanesulfonic aci | 0.00728 | 0.0066 | 91 | 40-150 |
| 757124-72-44:2 | Fluorotelomer sulfonate | 0.0281 | 0.0284 | 101 | 40-150 |
| 27619-97-2 | 6:2 Fluorotelomer sulfonate | 0.0285 | 0.0314 | 110 | 40-150 |
| 39108-34-4 | 8:2 Fluorotelomer sulfonate | 0.0288 | 0.0319 | 111 | 40-150 |
| 754-91-6 | PFOSA | 0.0075 | 0.0077 | 103 | 40-150 |
| 31506-32-8 | MeFOSA | 0.015 | 0.0155 | 103 | 40-150 |
| 4151-50-2 | EtFOSA | 0.015 | 0.0136 | 91 | 40-150 |
| 2355-31-9 | MeFOSAA | 0.0075 | 0.0086 | 115 | 40-150 |
| 2991-50-6 | EtFOSAA | 0.0075 | 0.0082 | 109 | 40-150 |
| 24448-09-7 | MeFOSE | 0.0375 | 0.0369 | 98 | 40-150 |
| 1691-99-2 | EtFOSE | 0.0375 | 0.0376 | 100 | 40-150 |
| 13252-13-6 | HFPO-DA (GenX) | 0.015 | 0.0158 | 105 | 40-150 |
| 919005-14-4 | ADONA | 0.0142 | 0.0149 | 105 | 40-150 |
| 377-73-1 | PFMPA | 0.015 | 0.0156 | 104 | 40-150 |
| 863090-89-5 | PFMBA | 0.015 | 0.0156 | 104 | 40-150 |
| 151772-58-6 | NFDHA | 0.015 | 0.0152 | 101 | 40-150 |
| 756426-58-19 | Cl-PF3ONS (F-53B Major) | 0.014 | 0.0145 | 103 | 40-150 |
| 763051-92-91 | Cl-PF3OUdS (F-53B Minor) | 0.0142 | 0.0142 | 100 | 40-150 |

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FC6278
 Account: AECOMCOD AECOM, INC.
 Project: N6274223F0104 RH Fire Suppression System

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------------|-----------|----|----------|----|-----------|------------|------------------|
| OP97070-LLBS | 6Q18600.D | 1 | 05/31/23 | MV | 05/25/23 | OP97070 | S6Q279 |

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

FC6278-1, FC6278-2, FC6278-3, FC6278-4, FC6278-5

| CAS No. | Compound | Spike ug/l | BSP ug/l | BSP % | Limits |
|----------------|-------------------------------|------------|----------|-------|--------|
| 113507-82-7 | PFEESA | 0.0134 | 0.0136 | 102 | 40-150 |
| 356-02-5 | 3:3 Fluorotelomer carboxylate | 0.0375 | 0.0317 | 85 | 40-150 |
| 914637-49-35:3 | Fluorotelomer carboxylate | 0.188 | 0.180 | 96 | 40-150 |
| 812-70-4 | 7:3 Fluorotelomer carboxylate | 0.188 | 0.191 | 102 | 40-150 |

| CAS No. | ID Standard Recoveries | BSP | Limits |
|---------|------------------------|------|---------|
| | 13C4-PFBA | 112% | 20-150% |
| | 13C5-PFPeA | 117% | 20-150% |
| | 13C5-PFHxA | 121% | 20-150% |
| | 13C4-PFHpA | 116% | 20-150% |
| | 13C8-PFOA | 117% | 20-150% |
| | 13C9-PFNA | 114% | 20-150% |
| | 13C6-PFDA | 113% | 20-150% |
| | 13C7-PFUnDA | 116% | 20-150% |
| | 13C2-PFDoDA | 113% | 20-150% |
| | 13C2-PFTeDA | 103% | 20-150% |
| | 13C3-PFBS | 109% | 20-150% |
| | 13C3-PFHxS | 111% | 20-150% |
| | 13C8-PFOS | 111% | 20-150% |
| | 13C8-FOSA | 94% | 20-150% |
| | d3-MeFOSA | 93% | 20-150% |
| | d5-EtFOSA | 104% | 20-150% |
| | d3-MeFOSAA | 113% | 20-150% |
| | d5-EtFOSAA | 108% | 20-150% |
| | d7-MeFOSE | 90% | 20-150% |
| | d9-EtFOSE | 96% | 20-150% |
| | 13C2-4:2FTS | 116% | 20-180% |
| | 13C2-6:2FTS | 116% | 20-180% |
| | 13C2-8:2FTS | 112% | 20-180% |
| | 13C3-HFPO-DA | 115% | 20-150% |

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FC6278
 Account: AECOMCOD AECOM, INC.
 Project: N6274223F0104 RH Fire Suppression System

| | | | | | | | |
|------------|-----------|----|----------|----|-----------|------------|------------------|
| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
| OP97070-BS | 6Q18542.D | 1 | 05/30/23 | MV | 05/25/23 | OP97070 | S6Q278 |

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

FC6278-1, FC6278-2, FC6278-3, FC6278-4, FC6278-5

| CAS No. | Compound | Spike ug/l | BSP ug/l | BSP % | Limits |
|----------------|-------------------------------|---------------|-------------|----------|--------|
| 375-22-4 | Perfluorobutanoic acid | 0.1 | 0.105 | 105 | 40-150 |
| 2706-90-3 | Perfluoropentanoic acid | 0.05 | 0.0525 | 105 | 40-150 |
| 307-24-4 | Perfluorohexanoic acid | 0.025 | 0.0261 | 104 | 40-150 |
| 375-85-9 | Perfluoroheptanoic acid | 0.025 | 0.0265 | 106 | 40-150 |
| 335-67-1 | Perfluorooctanoic acid | 0.025 | 0.0257 | 103 | 40-150 |
| 375-95-1 | Perfluorononanoic acid | 0.025 | 0.0255 | 102 | 40-150 |
| 335-76-2 | Perfluorodecanoic acid | 0.025 | 0.0274 | 110 | 40-150 |
| 2058-94-8 | Perfluoroundecanoic acid | 0.025 | 0.0236 | 94 | 40-150 |
| 307-55-1 | Perfluorododecanoic acid | 0.025 | 0.0272 | 109 | 40-150 |
| 72629-94-8 | Perfluorotridecanoic acid | 0.025 | 0.0260 | 104 | 40-150 |
| 376-06-7 | Perfluorotetradecanoic acid | 0.025 | 0.0256 | 102 | 40-150 |
| 375-73-5 | Perfluorobutanesulfonic acid | 0.0222 | 0.0223 | 101 | 40-150 |
| 2706-91-4 | Perfluoropentanesulfonic acid | 0.0235 | 0.0262 | 111 | 40-150 |
| 355-46-4 | Perfluorohexanesulfonic acid | 0.0229 | 0.0260 | 114 | 40-150 |
| 375-92-8 | Perfluoroheptanesulfonic acid | 0.0238 | 0.0235 | 99 | 40-150 |
| 1763-23-1 | Perfluorooctanesulfonic acid | 0.0232 | 0.0231 | 100 | 40-150 |
| 68259-12-1 | Perfluorononanesulfonic acid | 0.0241 | 0.0234 | 97 | 40-150 |
| 335-77-3 | Perfluorodecanesulfonic acid | 0.0241 | 0.0231 | 96 | 40-150 |
| 79780-39-5 | Perfluorododecanesulfonic aci | 0.0243 | 0.0236 | 97 | 40-150 |
| 757124-72-44:2 | Fluorotelomer sulfonate | 0.0938 | 0.102 | 109 | 40-150 |
| 27619-97-2 | 6:2 Fluorotelomer sulfonate | 0.095 | 0.0985 | 104 | 40-150 |
| 39108-34-4 | 8:2 Fluorotelomer sulfonate | 0.096 | 0.100 | 104 | 40-150 |
| 754-91-6 | PFOSA | 0.025 | 0.0256 | 102 | 40-150 |
| 31506-32-8 | MeFOSA | 0.05 | 0.0505 | 101 | 40-150 |
| 4151-50-2 | EtFOSA | 0.05 | 0.0481 | 96 | 40-150 |
| 2355-31-9 | MeFOSAA | 0.025 | 0.0254 | 102 | 40-150 |
| 2991-50-6 | EtFOSAA | 0.025 | 0.0265 | 106 | 40-150 |
| 24448-09-7 | MeFOSE | 0.125 | 0.121 | 97 | 40-150 |
| 1691-99-2 | EtFOSE | 0.125 | 0.122 | 98 | 40-150 |
| 13252-13-6 | HFPO-DA (GenX) | 0.05 | 0.0532 | 106 | 40-150 |
| 919005-14-4 | ADONA | 0.0473 | 0.0510 | 108 | 40-150 |
| 377-73-1 | PFMPA | 0.05 | 0.0242 | 48 | 40-150 |
| 863090-89-5 | PFMBA | 0.05 | 0.0550 | 110 | 40-150 |
| 151772-58-6 | NFDHA | 0.05 | 0.0512 | 102 | 40-150 |
| 756426-58-19 | Cl-PF3ONS (F-53B Major) | 0.0468 | 0.0503 | 108 | 40-150 |
| 763051-92-91 | Cl-PF3OUdS (F-53B Minor) | 0.0473 | 0.0491 | 104 | 40-150 |

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FC6278
 Account: AECOMCOD AECOM, INC.
 Project: N6274223F0104 RH Fire Suppression System

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|------------|-----------|----|----------|----|-----------|------------|------------------|
| OP97070-BS | 6Q18542.D | 1 | 05/30/23 | MV | 05/25/23 | OP97070 | S6Q278 |

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

FC6278-1, FC6278-2, FC6278-3, FC6278-4, FC6278-5

| CAS No. | Compound | Spike ug/l | BSP ug/l | BSP % | Limits |
|----------------|-------------------------------|------------|----------|-------|--------|
| 113507-82-7 | PFEESA | 0.0445 | 0.0456 | 102 | 40-150 |
| 356-02-5 | 3:3 Fluorotelomer carboxylate | 0.125 | 0.0560 | 45 | 40-150 |
| 914637-49-35:3 | Fluorotelomer carboxylate | 0.625 | 0.584 | 93 | 40-150 |
| 812-70-4 | 7:3 Fluorotelomer carboxylate | 0.625 | 0.592 | 95 | 40-150 |

| CAS No. | ID Standard Recoveries | BSP | Limits |
|---------|------------------------|------|---------|
| | 13C4-PFBA | 24% | 20-150% |
| | 13C5-PFPeA | 96% | 20-150% |
| | 13C5-PFHxA | 106% | 20-150% |
| | 13C4-PFHpA | 99% | 20-150% |
| | 13C8-PFOA | 110% | 20-150% |
| | 13C9-PFNA | 107% | 20-150% |
| | 13C6-PFDA | 102% | 20-150% |
| | 13C7-PFUnDA | 106% | 20-150% |
| | 13C2-PFDoDA | 95% | 20-150% |
| | 13C2-PFTeDA | 93% | 20-150% |
| | 13C3-PFBS | 108% | 20-150% |
| | 13C3-PFHxS | 102% | 20-150% |
| | 13C8-PFOS | 119% | 20-150% |
| | 13C8-FOSA | 104% | 20-150% |
| | d3-MeFOSA | 100% | 20-150% |
| | d5-EtFOSA | 106% | 20-150% |
| | d3-MeFOSAA | 125% | 20-150% |
| | d5-EtFOSAA | 120% | 20-150% |
| | d7-MeFOSE | 87% | 20-150% |
| | d9-EtFOSE | 98% | 20-150% |
| | 13C2-4:2FTS | 119% | 20-180% |
| | 13C2-6:2FTS | 129% | 20-180% |
| | 13C2-8:2FTS | 134% | 20-180% |
| | 13C3-HFPO-DA | 99% | 20-150% |

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FC6278
 Account: AECOMCOD AECOM, INC.
 Project: N6274223F0104 RH Fire Suppression System

| | | | | | | | |
|------------|-----------|----|----------|----|-----------|------------|------------------|
| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
| OP97070-BS | 6Q18599.D | 1 | 05/31/23 | MV | 05/25/23 | OP97070 | S6Q279 |

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

FC6278-1, FC6278-2, FC6278-3, FC6278-4, FC6278-5

| CAS No. | Compound | Spike ug/l | BSP ug/l | BSP % | Limits |
|----------------|-------------------------------|---------------|-------------|----------|--------|
| 375-22-4 | Perfluorobutanoic acid | 0.1 | 0.106 | 106 | 40-150 |
| 2706-90-3 | Perfluoropentanoic acid | 0.05 | 0.0531 | 106 | 40-150 |
| 307-24-4 | Perfluorohexanoic acid | 0.025 | 0.0244 | 98 | 40-150 |
| 375-85-9 | Perfluoroheptanoic acid | 0.025 | 0.0255 | 102 | 40-150 |
| 335-67-1 | Perfluorooctanoic acid | 0.025 | 0.0259 | 104 | 40-150 |
| 375-95-1 | Perfluorononanoic acid | 0.025 | 0.0259 | 104 | 40-150 |
| 335-76-2 | Perfluorodecanoic acid | 0.025 | 0.0256 | 102 | 40-150 |
| 2058-94-8 | Perfluoroundecanoic acid | 0.025 | 0.0238 | 95 | 40-150 |
| 307-55-1 | Perfluorododecanoic acid | 0.025 | 0.0258 | 103 | 40-150 |
| 72629-94-8 | Perfluorotridecanoic acid | 0.025 | 0.0258 | 103 | 40-150 |
| 376-06-7 | Perfluorotetradecanoic acid | 0.025 | 0.0271 | 108 | 40-150 |
| 375-73-5 | Perfluorobutanesulfonic acid | 0.0222 | 0.0233 | 105 | 40-150 |
| 2706-91-4 | Perfluoropentanesulfonic acid | 0.0235 | 0.0248 | 105 | 40-150 |
| 355-46-4 | Perfluorohexanesulfonic acid | 0.0229 | 0.0241 | 105 | 40-150 |
| 375-92-8 | Perfluoroheptanesulfonic acid | 0.0238 | 0.0246 | 103 | 40-150 |
| 1763-23-1 | Perfluorooctanesulfonic acid | 0.0232 | 0.0247 | 106 | 40-150 |
| 68259-12-1 | Perfluorononanesulfonic acid | 0.0241 | 0.0253 | 105 | 40-150 |
| 335-77-3 | Perfluorodecanesulfonic acid | 0.0241 | 0.0253 | 105 | 40-150 |
| 79780-39-5 | Perfluorododecanesulfonic aci | 0.0243 | 0.0251 | 104 | 40-150 |
| 757124-72-44:2 | Fluorotelomer sulfonate | 0.0938 | 0.0981 | 105 | 40-150 |
| 27619-97-2 | 6:2 Fluorotelomer sulfonate | 0.095 | 0.107 | 113 | 40-150 |
| 39108-34-4 | 8:2 Fluorotelomer sulfonate | 0.096 | 0.109 | 114 | 40-150 |
| 754-91-6 | PFOSA | 0.025 | 0.0261 | 104 | 40-150 |
| 31506-32-8 | MeFOSA | 0.05 | 0.0486 | 97 | 40-150 |
| 4151-50-2 | EtFOSA | 0.05 | 0.0457 | 91 | 40-150 |
| 2355-31-9 | MeFOSAA | 0.025 | 0.0288 | 115 | 40-150 |
| 2991-50-6 | EtFOSAA | 0.025 | 0.0270 | 108 | 40-150 |
| 24448-09-7 | MeFOSE | 0.125 | 0.123 | 98 | 40-150 |
| 1691-99-2 | EtFOSE | 0.125 | 0.118 | 94 | 40-150 |
| 13252-13-6 | HFPO-DA (GenX) | 0.05 | 0.0501 | 100 | 40-150 |
| 919005-14-4 | ADONA | 0.0473 | 0.0497 | 105 | 40-150 |
| 377-73-1 | PFMPA | 0.05 | 0.0241 | 48 | 40-150 |
| 863090-89-5 | PFMBA | 0.05 | 0.0555 | 111 | 40-150 |
| 151772-58-6 | NFDHA | 0.05 | 0.0505 | 101 | 40-150 |
| 756426-58-19 | Cl-PF3ONS (F-53B Major) | 0.0468 | 0.0466 | 100 | 40-150 |
| 763051-92-91 | Cl-PF3OUdS (F-53B Minor) | 0.0473 | 0.0464 | 98 | 40-150 |

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FC6278
 Account: AECOMCOD AECOM, INC.
 Project: N6274223F0104 RH Fire Suppression System

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|------------|-----------|----|----------|----|-----------|------------|------------------|
| OP97070-BS | 6Q18599.D | 1 | 05/31/23 | MV | 05/25/23 | OP97070 | S6Q279 |

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

FC6278-1, FC6278-2, FC6278-3, FC6278-4, FC6278-5

| CAS No. | Compound | Spike ug/l | BSP ug/l | BSP % | Limits |
|----------------|-------------------------------|------------|----------|-------|--------|
| 113507-82-7 | PFEESA | 0.0445 | 0.0454 | 102 | 40-150 |
| 356-02-5 | 3:3 Fluorotelomer carboxylate | 0.125 | 0.0562 | 45 | 40-150 |
| 914637-49-35:3 | Fluorotelomer carboxylate | 0.625 | 0.600 | 96 | 40-150 |
| 812-70-4 | 7:3 Fluorotelomer carboxylate | 0.625 | 0.614 | 98 | 40-150 |

| CAS No. | ID Standard Recoveries | BSP | Limits |
|---------|------------------------|------|---------|
| | 13C4-PFBA | 24% | 20-150% |
| | 13C5-PFPeA | 99% | 20-150% |
| | 13C5-PFHxA | 109% | 20-150% |
| | 13C4-PFHpA | 104% | 20-150% |
| | 13C8-PFOA | 102% | 20-150% |
| | 13C9-PFNA | 103% | 20-150% |
| | 13C6-PFDA | 109% | 20-150% |
| | 13C7-PFUnDA | 114% | 20-150% |
| | 13C2-PFDoDA | 105% | 20-150% |
| | 13C2-PFTeDA | 100% | 20-150% |
| | 13C3-PFBS | 105% | 20-150% |
| | 13C3-PFHxS | 103% | 20-150% |
| | 13C8-PFOS | 100% | 20-150% |
| | 13C8-FOSA | 89% | 20-150% |
| | d3-MeFOSA | 95% | 20-150% |
| | d5-EtFOSA | 103% | 20-150% |
| | d3-MeFOSAA | 101% | 20-150% |
| | d5-EtFOSAA | 103% | 20-150% |
| | d7-MeFOSE | 84% | 20-150% |
| | d9-EtFOSE | 93% | 20-150% |
| | 13C2-4:2FTS | 105% | 20-180% |
| | 13C2-6:2FTS | 107% | 20-180% |
| | 13C2-8:2FTS | 106% | 20-180% |
| | 13C3-HFPO-DA | 106% | 20-150% |

* = Outside of Control Limits.

Matrix Spike Summary

Job Number: FC6278
 Account: AECOMCOD AECOM, INC.
 Project: N6274223F0104 RH Fire Suppression System

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|------------|-----------|----|----------|----|-----------|------------|------------------|
| OP97070-MS | 6Q18603.D | 1 | 05/31/23 | MV | 05/25/23 | OP97070 | S6Q279 |
| FC6278-1 | 6Q18602.D | 1 | 05/31/23 | MV | 05/25/23 | OP97070 | S6Q279 |

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

FC6278-1, FC6278-2, FC6278-3, FC6278-4, FC6278-5

| CAS No. | Compound | FC6278-1 ug/l | Spike Q | MS ug/l | MS % | Limits | |
|----------------|-------------------------------|------------------|------------|------------|---------|--------|--------|
| 375-22-4 | Perfluorobutanoic acid | 0.015 U | | 0.0943 | 0.101 | 107 | 40-150 |
| 2706-90-3 | Perfluoropentanoic acid | 0.0034 J | | 0.0472 | 0.0527 | 105 | 40-150 |
| 307-24-4 | Perfluorohexanoic acid | 0.0010 J | | 0.0236 | 0.0237 | 96 | 40-150 |
| 375-85-9 | Perfluoroheptanoic acid | 0.0037 U | | 0.0236 | 0.0246 | 104 | 40-150 |
| 335-67-1 | Perfluorooctanoic acid | 0.0037 U | | 0.0236 | 0.0252 | 107 | 40-150 |
| 375-95-1 | Perfluorononanoic acid | 0.0037 U | | 0.0236 | 0.0256 | 109 | 40-150 |
| 335-76-2 | Perfluorodecanoic acid | 0.0037 U | | 0.0236 | 0.0251 | 106 | 40-150 |
| 2058-94-8 | Perfluoroundecanoic acid | 0.0037 U | | 0.0236 | 0.0246 | 104 | 40-150 |
| 307-55-1 | Perfluorododecanoic acid | 0.0037 U | | 0.0236 | 0.0258 | 109 | 40-150 |
| 72629-94-8 | Perfluorotridecanoic acid | 0.0037 U | | 0.0236 | 0.0248 | 105 | 40-150 |
| 376-06-7 | Perfluorotetradecanoic acid | 0.0037 U | | 0.0236 | 0.0267 | 113 | 40-150 |
| 375-73-5 | Perfluorobutanesulfonic acid | 0.0037 U | | 0.0209 | 0.0209 | 100 | 40-150 |
| 2706-91-4 | Perfluoropentanesulfonic acid | 0.0046 U | | 0.0222 | 0.0238 | 107 | 40-150 |
| 355-46-4 | Perfluorohexanesulfonic acid | 0.0037 U | | 0.0216 | 0.0227 | 105 | 40-150 |
| 375-92-8 | Perfluoroheptanesulfonic acid | 0.0037 U | | 0.0225 | 0.0243 | 108 | 40-150 |
| 1763-23-1 | Perfluorooctanesulfonic acid | 0.0037 U | | 0.0219 | 0.0238 | 109 | 40-150 |
| 68259-12-1 | Perfluorononanesulfonic acid | 0.0037 U | | 0.0227 | 0.0219 | 97 | 40-150 |
| 335-77-3 | Perfluorodecanesulfonic acid | 0.0037 U | | 0.0228 | 0.0210 | 92 | 40-150 |
| 79780-39-5 | Perfluorododecanesulfonic aci | 0.0046 U | | 0.0229 | 0.0212 | 93 | 40-150 |
| 757124-72-44:2 | Fluorotelomer sulfonate | 0.019 U | | 0.0884 | 0.0957 | 108 | 40-150 |
| 27619-97-2 | 6:2 Fluorotelomer sulfonate | 0.019 U | | 0.0896 | 0.0992 | 111 | 40-150 |
| 39108-34-4 | 8:2 Fluorotelomer sulfonate | 0.019 U | | 0.0906 | 0.0920 | 102 | 40-150 |
| 754-91-6 | PFOSA | 0.0037 U | | 0.0236 | 0.0236 | 100 | 40-150 |
| 31506-32-8 | MeFOSA | 0.0074 U | | 0.0472 | 0.0475 | 101 | 40-150 |
| 4151-50-2 | EtFOSA | 0.0074 U | | 0.0472 | 0.0434 | 92 | 40-150 |
| 2355-31-9 | MeFOSAA | 0.0046 U | | 0.0236 | 0.0254 | 108 | 40-150 |
| 2991-50-6 | EtFOSAA | 0.0046 U | | 0.0236 | 0.0266 | 113 | 40-150 |
| 24448-09-7 | MeFOSE | 0.037 U | | 0.118 | 0.114 | 97 | 40-150 |
| 1691-99-2 | EtFOSE | 0.037 U | | 0.118 | 0.111 | 94 | 40-150 |
| 13252-13-6 | HFPO-DA (GenX) | 0.0037 U | | 0.0472 | 0.0510 | 108 | 40-150 |
| 919005-14-4 | ADONA | 0.0074 U | | 0.0446 | 0.0497 | 111 | 40-150 |
| 377-73-1 | PFMPA | 0.0074 U | | 0.0472 | 0.0308 | 65 | 40-150 |
| 863090-89-5 | PFMBA | 0.0074 U | | 0.0472 | 0.0503 | 107 | 40-150 |
| 151772-58-6 | NFDHA | 0.0074 U | | 0.0472 | 0.0479 | 102 | 40-150 |
| 756426-58-19 | Cl-PF3ONS (F-53B Major) | 0.0074 U | | 0.0441 | 0.0459 | 104 | 40-150 |
| 763051-92-91 | Cl-PF3OUdS (F-53B Minor) | 0.0074 U | | 0.0446 | 0.0413 | 93 | 40-150 |

* = Outside of Control Limits.

Matrix Spike Summary

Job Number: FC6278
 Account: AECOMCOD AECOM, INC.
 Project: N6274223F0104 RH Fire Suppression System

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|------------|-----------|----|----------|----|-----------|------------|------------------|
| OP97070-MS | 6Q18603.D | 1 | 05/31/23 | MV | 05/25/23 | OP97070 | S6Q279 |
| FC6278-1 | 6Q18602.D | 1 | 05/31/23 | MV | 05/25/23 | OP97070 | S6Q279 |

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

FC6278-1, FC6278-2, FC6278-3, FC6278-4, FC6278-5

| CAS No. | Compound | FC6278-1 ug/l | Spike Q | MS ug/l | MS % | Limits |
|----------------|-------------------------------|------------------|------------|------------|---------|--------|
| 113507-82-7 | PFEESA | 0.0074 U | 0.042 | 0.0428 | 102 | 40-150 |
| 356-02-5 | 3:3 Fluorotelomer carboxylate | 0.019 U | 0.118 | 0.0658 | 56 | 40-150 |
| 914637-49-35:3 | Fluorotelomer carboxylate | 0.093 U | 0.59 | 0.534 | 91 | 40-150 |
| 812-70-4 | 7:3 Fluorotelomer carboxylate | 0.093 U | 0.59 | 0.570 | 97 | 40-150 |

| CAS No. | ID Standard Recoveries | MS | FC6278-1 | Limits |
|---------|------------------------|------|----------|---------|
| | 13C4-PFBA | 31% | 56% | 20-150% |
| | 13C5-PFPeA | 106% | 104% | 20-150% |
| | 13C5-PFHxA | 114% | 100% | 20-150% |
| | 13C4-PFHpA | 109% | 106% | 20-150% |
| | 13C8-PFOA | 111% | 107% | 20-150% |
| | 13C9-PFNA | 105% | 103% | 20-150% |
| | 13C6-PFDA | 105% | 99% | 20-150% |
| | 13C7-PFUnDA | 100% | 98% | 20-150% |
| | 13C2-PFDoDA | 91% | 93% | 20-150% |
| | 13C2-PFTeDA | 85% | 85% | 20-150% |
| | 13C3-PFBS | 111% | 106% | 20-150% |
| | 13C3-PFHxS | 104% | 105% | 20-150% |
| | 13C8-PFOS | 107% | 91% | 20-150% |
| | 13C8-FOSA | 90% | 82% | 20-150% |
| | d3-MeFOSA | 92% | 84% | 20-150% |
| | d5-EtFOSA | 101% | 91% | 20-150% |
| | d3-MeFOSAA | 109% | 98% | 20-150% |
| | d5-EtFOSAA | 100% | 92% | 20-150% |
| | d7-MeFOSE | 83% | 76% | 20-150% |
| | d9-EtFOSE | 95% | 89% | 20-150% |
| | 13C2-4:2FTS | 110% | 108% | 20-180% |
| | 13C2-6:2FTS | 107% | 113% | 20-180% |
| | 13C2-8:2FTS | 106% | 105% | 20-180% |
| | 13C3-HFPO-DA | 104% | 105% | 20-150% |

* = Outside of Control Limits.

Duplicate Summary

Job Number: FC6278
 Account: AECOMCOD AECOM, INC.
 Project: N6274223F0104 RH Fire Suppression System

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-------------|-----------|----|----------|----|-----------|------------|------------------|
| OP97070-DUP | 6Q18606.D | 1 | 05/31/23 | MV | 05/25/23 | OP97070 | S6Q279 |
| FC6278-3 | 6Q18605.D | 1 | 05/31/23 | MV | 05/25/23 | OP97070 | S6Q279 |

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

FC6278-1, FC6278-2, FC6278-3, FC6278-4, FC6278-5

| CAS No. | Compound | FC6278-3 ug/l | DUP Q ug/l | Q | RPD | Limits |
|----------------|-------------------------------|------------------|---------------|---|-----|--------|
| 375-22-4 | Perfluorobutanoic acid | 0.015 U | ND | | nc | 30 |
| 2706-90-3 | Perfluoropentanoic acid | 0.0074 U | ND | | nc | 30 |
| 307-24-4 | Perfluorohexanoic acid | 0.0037 U | ND | | nc | 30 |
| 375-85-9 | Perfluoroheptanoic acid | 0.0037 U | ND | | nc | 30 |
| 335-67-1 | Perfluorooctanoic acid | 0.0037 U | ND | | nc | 30 |
| 375-95-1 | Perfluorononanoic acid | 0.0037 U | ND | | nc | 30 |
| 335-76-2 | Perfluorodecanoic acid | 0.0037 U | ND | | nc | 30 |
| 2058-94-8 | Perfluoroundecanoic acid | 0.0037 U | ND | | nc | 30 |
| 307-55-1 | Perfluorododecanoic acid | 0.0037 U | ND | | nc | 30 |
| 72629-94-8 | Perfluorotridecanoic acid | 0.0037 U | ND | | nc | 30 |
| 376-06-7 | Perfluorotetradecanoic acid | 0.0037 U | ND | | nc | 30 |
| 375-73-5 | Perfluorobutanesulfonic acid | 0.0037 U | ND | | nc | 30 |
| 2706-91-4 | Perfluoropentanesulfonic acid | 0.0046 U | ND | | nc | 30 |
| 355-46-4 | Perfluorohexanesulfonic acid | 0.0037 U | ND | | nc | 30 |
| 375-92-8 | Perfluoroheptanesulfonic acid | 0.0037 U | ND | | nc | 30 |
| 1763-23-1 | Perfluorooctanesulfonic acid | 0.0037 U | ND | | nc | 30 |
| 68259-12-1 | Perfluorononanesulfonic acid | 0.0037 U | ND | | nc | 30 |
| 335-77-3 | Perfluorodecanesulfonic acid | 0.0037 U | ND | | nc | 30 |
| 79780-39-5 | Perfluorododecanesulfonic aci | 0.0046 U | ND | | nc | 30 |
| 757124-72-44:2 | Fluorotelomer sulfonate | 0.019 U | ND | | nc | 30 |
| 27619-97-2 | 6:2 Fluorotelomer sulfonate | 0.019 U | ND | | nc | 30 |
| 39108-34-4 | 8:2 Fluorotelomer sulfonate | 0.019 U | ND | | nc | 30 |
| 754-91-6 | PFOSA | 0.0037 U | ND | | nc | 30 |
| 31506-32-8 | MeFOSA | 0.0074 U | ND | | nc | 30 |
| 4151-50-2 | EtFOSA | 0.0074 U | ND | | nc | 30 |
| 2355-31-9 | MeFOSAA | 0.0046 U | ND | | nc | 30 |
| 2991-50-6 | EtFOSAA | 0.0046 U | ND | | nc | 30 |
| 24448-09-7 | MeFOSE | 0.037 U | ND | | nc | 30 |
| 1691-99-2 | EtFOSE | 0.037 U | ND | | nc | 30 |
| 13252-13-6 | HFPO-DA (GenX) | 0.0037 U | ND | | nc | 30 |
| 919005-14-4 | ADONA | 0.0074 U | ND | | nc | 30 |
| 377-73-1 | PFMPA | 0.0074 U | ND | | nc | 30 |
| 863090-89-5 | PFMBA | 0.0074 U | ND | | nc | 30 |
| 151772-58-6 | NFDHA | 0.0074 U | ND | | nc | 30 |
| 756426-58-19 | Cl-PF3ONS (F-53B Major) | 0.0074 U | ND | | nc | 30 |
| 763051-92-91 | Cl-PF3OUdS (F-53B Minor) | 0.0074 U | ND | | nc | 30 |

* = Outside of Control Limits.

Duplicate Summary

Job Number: FC6278
 Account: AECOMCOD AECOM, INC.
 Project: N6274223F0104 RH Fire Suppression System

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-------------|-----------|----|----------|----|-----------|------------|------------------|
| OP97070-DUP | 6Q18606.D | 1 | 05/31/23 | MV | 05/25/23 | OP97070 | S6Q279 |
| FC6278-3 | 6Q18605.D | 1 | 05/31/23 | MV | 05/25/23 | OP97070 | S6Q279 |

The QC reported here applies to the following samples:

Method: EPA DRAFT 1633

FC6278-1, FC6278-2, FC6278-3, FC6278-4, FC6278-5

| CAS No. | Compound | FC6278-3 ug/l | DUP Q ug/l | Q | RPD | Limits |
|----------------|-------------------------------|------------------|---------------|---|-----|--------|
| 113507-82-7 | PFEESA | 0.0074 U | ND | | nc | 30 |
| 356-02-5 | 3:3 Fluorotelomer carboxylate | 0.019 U | ND | | nc | 30 |
| 914637-49-35:3 | Fluorotelomer carboxylate | 0.093 U | ND | | nc | 30 |
| 812-70-4 | 7:3 Fluorotelomer carboxylate | 0.093 U | ND | | nc | 30 |

| CAS No. | ID Standard Recoveries | DUP | FC6278-3 | Limits |
|---------|------------------------|------|----------|---------|
| | 13C4-PFBA | 94% | 101% | 20-150% |
| | 13C5-PFPeA | 99% | 102% | 20-150% |
| | 13C5-PFHxA | 99% | 101% | 20-150% |
| | 13C4-PFHpA | 99% | 99% | 20-150% |
| | 13C8-PFOA | 97% | 109% | 20-150% |
| | 13C9-PFNA | 98% | 103% | 20-150% |
| | 13C6-PFDA | 100% | 98% | 20-150% |
| | 13C7-PFUnDA | 97% | 98% | 20-150% |
| | 13C2-PFDoDA | 92% | 88% | 20-150% |
| | 13C2-PFTeDA | 84% | 87% | 20-150% |
| | 13C3-PFBS | 102% | 99% | 20-150% |
| | 13C3-PFHxS | 98% | 102% | 20-150% |
| | 13C8-PFOS | 99% | 108% | 20-150% |
| | 13C8-FOSA | 75% | 89% | 20-150% |
| | d3-MeFOSA | 84% | 91% | 20-150% |
| | d5-EtFOSA | 90% | 98% | 20-150% |
| | d3-MeFOSAA | 94% | 103% | 20-150% |
| | d5-EtFOSAA | 103% | 97% | 20-150% |
| | d7-MeFOSE | 70% | 83% | 20-150% |
| | d9-EtFOSE | 83% | 93% | 20-150% |
| | 13C2-4:2FTS | 108% | 104% | 20-180% |
| | 13C2-6:2FTS | 102% | 105% | 20-180% |
| | 13C2-8:2FTS | 109% | 97% | 20-180% |
| | 13C3-HFPO-DA | 98% | 101% | 20-150% |

* = Outside of Control Limits.