**Laboratory Report of Analysis**

To: ADEC Contaminated Sites
55 Cordova St
Anchorage, AK 99516
(907)269-8487

Report Number: **1222132**

Client Project: **PSG/WRG PFAS Sampling Event**

Dear Anne Palmieri,

Enclosed are the results of the analytical services performed under the referenced project for the received samples and associated QC as applicable. The samples are certified to meet the requirements of the National Environmental Laboratory Accreditation Conference Standards. Copies of this report and supporting data will be retained in our files for a period of ten years in the event they are required for future reference. All results are intended to be used in their entirety and SGS is not responsible for use of less than the complete report. Any samples submitted to our laboratory will be retained for a maximum of fourteen (14) days from the date of this report unless other archiving requirements were included in the quote.

If there are any questions about the report or services performed during this project, please call Alexandra at (907) 562-2343. We will be happy to answer any questions or concerns which you may have.

Thank you for using SGS North America Inc. for your analytical services. We look forward to working with you again on any additional analytical needs.

Sincerely,
SGS North America Inc.

Allie Lambe
2022.06.06 17:15:14 -08'00'

Alexandra Lambe Date
Project Manager
Alexandra.Lambe@sgs.com



SGS North America Inc. 200 West Potter Drive, Anchorage, AK 99518
t 907.562.2343 f 907.561.5301 www.us.sgs.com

## Case Narrative

SGS Client: **ADEC Contaminated Sites**
SGS Project: **1222132**
Project Name/Site: **PSG/WRG PFAS Sampling Event**
Project Contact: **Anne Palmieri**

Refer to sample receipt form for information on sample condition.

EPA 537 PFAS- 24 compound list were analyzed by SGS of Orlando, FL.

*QC comments may be associated with the field samples found in this report. When applicable, comments will be applied to associated field samples.



SGS North America Inc.
200 West Potter Drive, Anchorage, AK 99518
**t** 907.562.2343 **f** 907.561.5301 www.us.sgs.com

## Sample Summary

| Client Sample ID | Lab Sample ID | Collected | Received | Matrix |
|---|---|---|---|---|
| WRG-001-DW | 1222132001 | 05/04/2022 | 05/09/2022 | Drinking Water |
| WRG-002-DW | 1222132002 | 05/05/2022 | 05/09/2022 | Drinking Water |
| WRG-003-DW | 1222132003 | 05/05/2022 | 05/09/2022 | Drinking Water |
| WRG-004-DW | 1222132004 | 05/05/2022 | 05/09/2022 | Drinking Water |
| WRG-005-DW | 1222132005 | 05/05/2022 | 05/09/2022 | Drinking Water |

| Method | Method Description |
|---|---|

SGS

# SGS North America Inc.
# CHAIN OF CUSTODY RECORD

1222132

.com

Instructions: Sections 1 - 5 must be filled out.
Omissions may delay the onset of analysis.



**Section 1**

CLIENT: Alaska Dept. of Enviromental Conservation

CONTACT: Brandi Tolsma — PHONE #: 907-465-5378

PROJECT NAME: PSG/WRG PFAS Sampling Event — PROJECT/ PWSID/ PERMIT#: —

REPORTS TO: Marc Thomas — E-MAIL: marc.thomas@alaska.gov — Profile #: 384468

INVOICE TO: Alaska Dept. of Environmental Conservation — QUOTE #: — P.O. #:

**Section 2**

| RESERVED for lab use | SAMPLE IDENTIFICATION | DATE mm/dd/yy | TIME HH:MM | MATRIX/ MATRIX CODE | # CONTAINERS | Comp Grab MI (Multi-incremental) | Analysis* Trizma: PFAS 537.1 | REMARKS/LOC ID |
|---|---|---|---|---|---|---|---|---|
| OAB | WRG-001-DW | 5/4/22 | 18:15 | DW | 2 | G | X | |
| OAB | WRG-002-DW | 5/5/22 | 09:25 | DW | 2 | G | X | |
| OAB | WRG-003-DW | 5/5/22 | 11:08 | DW | 2 | G | X | |
| OAB | WRG-004-DW | 5/5/22 | 11:10 | DW | 2 | G | X | |
| OAB | WRG-005-DW | 5/5/22 | 11:12 | DW | 2 | G | X | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

NOTE: *The following analyses require specific method and/or compound list: BTEX, Metals, PFAS

**Section 5**

| | Date | Time | |
|---|---|---|---|
| Relinquished By: (1) Brandi Tolsma | 5/6/22 | 10:00 | Received By: |
| Relinquished By: (2) | Date | Time | Received By: |
| Relinquished By: (3) | Date | Time | Received By: |
| Relinquished By: (4) | 5/9/22 | 8:20 | Received For Laboratory By: COS |

**Section 4**

DOD Project? Yes No

Data Deliverable Requirements:

Cooler ID:

Requested Turnaround Time and/or Special Instructions:

Temp Blank °C: 0.9 0.3 or Ambient [ ]

Chain of Custody Seal: (Circle) INTACT BROKEN ABSENT

Delivery Method: Hand Delivery[ ] Commerical Delivery [X] Fed Ex

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

e-Sample Receipt Form

| SGS Workorder #: | 1222132 | 1222132 |
|---|---|---|

| Review Criteria | Condition (Yes, No, N/A) | Exceptions Noted below |
|---|---|---|
| **Chain of Custody / Temperature Requirements** | *Note:* Temperature and COC seal information is found on the chain of custody form | |
| DOD only: Did all sample coolers have a corresponding COC? | Yes | |
| If <0°C, were sample containers ice free? | N/A | |
| Note containers received with ice: | | |
| Identify any containers received at non-compliant temperature:<br>*(Use form FS-0029 if more space is needed)* | | |
| **Holding Time / Documentation / Sample Condition Requirements** | *Note:* Refer to form F-083 "Sample Guide" for specific holding times and sample containers. | |
| Were samples received within analytical holding time? | Yes | |
| Do sample labels match COC? Record discrepancies. | Yes | |
| ***Note:*** *If information on containers differs from COC, default to COC information for login. If times differ <1hr, record details & login per COC.* | | |
| Were analytical requests clear? | Yes | |
| *(i.e. method is specified for analyses with multiple option for method (Eg, BTEX 8021 vs 8260, Metals 6020 vs 200.8)* | | |
| Were proper containers (type/mass/volume/preservative)used? | Yes | |
| Note: Exemption for metals analysis by 200.8/6020 in water. | | |
| **Volatile Analysis Requirements (VOC, GRO, LL-Hg, etc.)** | | |
| Were all soil VOAs received with a corresponding % solids container? | N/A | |
| Were Trip Blanks (e.g., VOAs, LL-Hg) in cooler with samples? | N/A | |
| Were all water VOA vials free of headspace (e.g., bubbles ≤ 6mm)? | N/A | |
| Were all soil VOAs field extracted with Methanol+BFB? | N/A | |

**Note to Client:** Any "No", answer above indicates non-compliance with standard procedures and may impact data quality.

**Additional notes (if applicable):**

## Sample Containers and Preservatives

| Container Id | Preservative | Container Condition | Container Id | Preservative | Container Condition |
|---|---|---|---|---|---|
| 1222132001-A | Trizma | OK | | | |
| 1222132001-B | Trizma | OK | | | |
| 1222132002-A | Trizma | OK | | | |
| 1222132002-B | Trizma | OK | | | |
| 1222132003-A | Trizma | OK | | | |
| 1222132003-B | Trizma | OK | | | |
| 1222132004-A | Trizma | OK | | | |
| 1222132004-B | Trizma | OK | | | |
| 1222132005-A | Trizma | OK | | | |
| 1222132005-B | Trizma | OK | | | |

Container Condition Glossary

Containers for bacteriological, low level mercury and VOA vials are not opened prior to analysis and will be assigned condition code OK unless evidence indicates than an inappropriate container was submitted.

OK - The container was received at an acceptable pH for the analysis requested.
BU - The container was received with headspace greater than 6mm.
DM - The container was received damaged.
FR - The container was received frozen and not usable for Bacteria or BOD analyses.
IC - The container provided for microbiology analysis was not a laboratory-supplied, pre-sterilized container and therefore was not suitable for analysis.
NC- The container provided was not preserved or was under-preserved. The method does not allow for additional preservative added after collection.
PA - The container was received outside of the acceptable pH for the analysis requested. Preservative was added upon receipt and the container is now at the correct pH. See the Sample Receipt Form for details on the amount and lot # of the preservative added.
PH - The container was received outside of the acceptable pH for the analysis requested. Preservative was added upon receipt, but was insufficient to bring the container to the correct pH for the analysis requested. See the Sample Receipt Form for details on the amount and lot # of the preservative added.
QN - Insufficient sample quantity provided.

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

*e-Hardcopy 2.0*
*Automated Report*

## Technical Report for

SGS North America, Inc

1222132

SGS Job Number: FA95650

Sampling Dates: 05/04/22 - 05/05/22

Report to:

SGS North America, Inc
200 W Potter Dr
Anchorage, AK 99518
julie.shumway@sgs.com

ATTN: Julie Shumway

Total number of pages in report: 33

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Norm Farmer
Technical Director

Client Service contact: Andrea Colby 407-425-6700

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

Sections: 1 2 3 4 5 6

# Table of Contents

# Sample Summary

SGS North America, Inc

1222132

**Job No:** FA95650

| Sample Number | Collected Date | Time | By | Received | Matrix Code | Type | Client Sample ID |
|---|---|---|---|---|---|---|---|
| FA95650-1 | 05/04/22 | 18:15 | | 05/12/22 | AQ | Water | WRG-001-DW |
| FA95650-2 | 05/05/22 | 09:25 | | 05/12/22 | AQ | Water | WRG-002-DW |
| FA95650-3 | 05/05/22 | 11:08 | | 05/12/22 | AQ | Water | WRG-003-DW |
| FA95650-4 | 05/05/22 | 11:10 | | 05/12/22 | AQ | Water | WRG-004-DW |
| FA95650-5 | 05/05/22 | 11:12 | | 05/12/22 | AQ | Water | WRG-005-DW |

# SAMPLE DELIVERY GROUP CASE NARRATIVE

**Client:** SGS North America, Inc **Job No:** FA95650

**Site:** 1222132 **Report Date** 6/6/2022 11:08:20 AM

On 05/12/2022, 5 Samples were received at SGS North America Inc - Orlando. at a maximum corrected temperature of 5.4 C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. - Orlando Job Number of FA95650 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 537M QSM5.3 B-15

**Matrix:** AQ **Batch ID:** OP91346

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

Samples FA95635-11MS, FA95635-12DUP were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

Samples FA95650-3, FA95650-4 have surrogates outside control limits.

FA95650-3 for Perfluorotetradecanoic acid: Associated ID Standard outside control limits due to matrix interference. Confirmed by re-extraction and reanalysis.
FA95650-3 for 13C2-PFTeDA: Outside control limits.

FA95650-4: Dilution required due to matrix interference (ID recovery standard failure).

FA95650-4 for 13C2-PFTeDA: Outside control limits.

**Matrix:** AQ **Batch ID:** OP91441

Sample FA95650-3 has surrogates outside control limits.

FA95650-3: Confirmation run.

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:

_____

Gabriela Benitez, Quality Assurance Coordinator *(Signature on File)*

# Summary of Hits

**Job Number:** FA95650
**Account:** SGS North America, Inc
**Project:** 1222132
**Collected:** 05/04/22 thru 05/05/22



| Lab Sample ID / Analyte | Client Sample ID | Result/ Qual | LOQ | LOD | Units | Method |
|---|---|---|---|---|---|---|
| **FA95650-1** | **WRG-001-DW** | | | | | |
| No hits reported in this sample. | | | | | | |
| **FA95650-2** | **WRG-002-DW** | | | | | |
| No hits reported in this sample. | | | | | | |
| **FA95650-3** | **WRG-003-DW** | | | | | |
| Perfluorohexanesulfonic acid | | 0.0026 J | 0.0036 | 0.0018 | ug/l | EPA 537M QSM5.3 B-15 |
| **FA95650-4** | **WRG-004-DW** | | | | | |
| Perfluorohexanesulfonic acid | | 0.0024 J | 0.0036 | 0.0018 | ug/l | EPA 537M QSM5.3 B-15 |
| **FA95650-5** | **WRG-005-DW** | | | | | |
| No hits reported in this sample. | | | | | | |

## Sample Results

Report of Analysis

# Report of Analysis





**Client Sample ID:** WRG-001-DW
**Lab Sample ID:** FA95650-1
**Matrix:** AQ - Water
**Method:** EPA 537M QSM5.3 B-15 EPA 537 MOD
**Project:** 1222132

**Date Sampled:** 05/04/22
**Date Received:** 05/12/22
**Percent Solids:** n/a

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 4Q29302.D | 1 | 05/28/22 23:40 | MV | 05/24/22 09:00 | OP91346 | S4Q420 |
| Run #2 | | | | | | | |

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

| CAS No. | Compound | Result | LOQ | LOD | DL | Units | Q |
|---|---|---|---|---|---|---|---|
| **PERFLUOROALKYLCARBOXYLIC ACIDS** | | | | | | | |
| 375-22-4 | Perfluorobutanoic acid | 0.0036 U | 0.0071 | 0.0036 | 0.0018 | ug/l | |
| 2706-90-3 | Perfluoropentanoic acid | 0.0018 U | 0.0036 | 0.0018 | 0.00089 | ug/l | |
| 307-24-4 | Perfluorohexanoic acid | 0.0018 U | 0.0036 | 0.0018 | 0.00089 | ug/l | |
| 375-85-9 | Perfluoroheptanoic acid | 0.0018 U | 0.0036 | 0.0018 | 0.00089 | ug/l | |
| 335-67-1 | Perfluorooctanoic acid | 0.0018 U | 0.0036 | 0.0018 | 0.00089 | ug/l | |
| 375-95-1 | Perfluorononanoic acid | 0.0018 U | 0.0036 | 0.0018 | 0.00089 | ug/l | |
| 335-76-2 | Perfluorodecanoic acid | 0.0018 U | 0.0036 | 0.0018 | 0.00089 | ug/l | |
| 2058-94-8 | Perfluoroundecanoic acid | 0.0018 U | 0.0036 | 0.0018 | 0.00089 | ug/l | |
| 307-55-1 | Perfluorododecanoic acid | 0.0018 U | 0.0036 | 0.0018 | 0.00089 | ug/l | |
| 72629-94-8 | Perfluorotridecanoic acid | 0.0018 U | 0.0036 | 0.0018 | 0.00089 | ug/l | |
| 376-06-7 | Perfluorotetradecanoic acid | 0.0018 U | 0.0036 | 0.0018 | 0.00089 | ug/l | |
| **PERFLUOROALKYLSULFONIC ACIDS** | | | | | | | |
| 375-73-5 | Perfluorobutanesulfonic acid | 0.0018 U | 0.0036 | 0.0018 | 0.00089 | ug/l | |
| 2706-91-4 | Perfluoropentanesulfonic acid | 0.0018 U | 0.0036 | 0.0018 | 0.00089 | ug/l | |
| 355-46-4 | Perfluorohexanesulfonic acid | 0.0018 U | 0.0036 | 0.0018 | 0.00089 | ug/l | |
| 375-92-8 | Perfluoroheptanesulfonic acid | 0.0018 U | 0.0036 | 0.0018 | 0.00089 | ug/l | |
| 1763-23-1 | Perfluorooctanesulfonic acid | 0.0018 U | 0.0036 | 0.0018 | 0.00089 | ug/l | |
| 68259-12-1 | Perfluorononanesulfonic acid | 0.0018 U | 0.0036 | 0.0018 | 0.00089 | ug/l | |
| 335-77-3 | Perfluorodecanesulfonic acid | 0.0018 U | 0.0036 | 0.0018 | 0.00089 | ug/l | |
| **PERFLUOROOCTANESULFONAMIDES** | | | | | | | |
| 754-91-6 | PFOSA | 0.0018 U | 0.0036 | 0.0018 | 0.00089 | ug/l | |
| **PERFLUOROOCTANESULFONAMIDOACETIC ACIDS** | | | | | | | |
| 2355-31-9 | MeFOSAA | 0.0036 U | 0.0071 | 0.0036 | 0.0018 | ug/l | |
| 2991-50-6 | EtFOSAA | 0.0036 U | 0.0071 | 0.0036 | 0.0018 | ug/l | |
| **FLUOROTELOMER SULFONATES** | | | | | | | |
| 757124-72-4 | 4:2 Fluorotelomer sulfonate | 0.0036 U | 0.0071 | 0.0036 | 0.0018 | ug/l | |
| 27619-97-2 | 6:2 Fluorotelomer sulfonate | 0.0036 U | 0.0071 | 0.0036 | 0.0018 | ug/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:** WRG-001-DW
**Lab Sample ID:** FA95650-1
**Matrix:** AQ - Water
**Method:** EPA 537M QSM5.3 B-15 EPA 537 MOD
**Project:** 1222132

**Date Sampled:** 05/04/22
**Date Received:** 05/12/22
**Percent Solids:** n/a

| CAS No. | Compound | Result | LOQ | LOD | DL | Units | Q |
|---|---|---|---|---|---|---|---|
| 39108-34-4 | 8:2 Fluorotelomer sulfonate | 0.0036 U | 0.0071 | 0.0036 | 0.0018 | ug/l | |

| CAS No. | ID Standard Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| | 13C4-PFBA | 92% | | 50-150% |
| | 13C5-PFPeA | 105% | | 50-150% |
| | 13C5-PFHxA | 110% | | 50-150% |
| | 13C4-PFHpA | 113% | | 50-150% |
| | 13C8-PFOA | 121% | | 50-150% |
| | 13C9-PFNA | 119% | | 50-150% |
| | 13C6-PFDA | 121% | | 50-150% |
| | 13C7-PFUnDA | 111% | | 50-150% |
| | 13C2-PFDoDA | 105% | | 50-150% |
| | 13C2-PFTeDA | 89% | | 50-150% |
| | 13C3-PFBS | 105% | | 50-150% |
| | 13C3-PFHxS | 110% | | 50-150% |
| | 13C8-PFOS | 111% | | 50-150% |
| | 13C8-FOSA | 114% | | 50-150% |
| | d3-MeFOSAA | 119% | | 50-150% |
| | d5-EtFOSAA | 113% | | 50-150% |
| | 13C2-4:2FTS | 107% | | 50-150% |
| | 13C2-6:2FTS | 116% | | 50-150% |
| | 13C2-8:2FTS | 112% | | 50-150% |

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:** WRG-002-DW
**Lab Sample ID:** FA95650-2
**Matrix:** AQ - Water
**Method:** EPA 537M QSM5.3 B-15 EPA 537 MOD
**Project:** 1222132

**Date Sampled:** 05/05/22
**Date Received:** 05/12/22
**Percent Solids:** n/a

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 4Q29303.D | 1 | 05/28/22 23:57 | MV | 05/24/22 09:00 | OP91346 | S4Q420 |
| Run #2 | | | | | | | |

| | Initial Volume | Final Volume |
|---|---|---|
| Run #1 | 270 ml | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | LOQ | LOD | DL | Units | Q |
|---|---|---|---|---|---|---|---|
| **PERFLUOROALKYLCARBOXYLIC ACIDS** | | | | | | | |
| 375-22-4 | Perfluorobutanoic acid | 0.0037 U | 0.0074 | 0.0037 | 0.0019 | ug/l | |
| 2706-90-3 | Perfluoropentanoic acid | 0.0019 U | 0.0037 | 0.0019 | 0.00093 | ug/l | |
| 307-24-4 | Perfluorohexanoic acid | 0.0019 U | 0.0037 | 0.0019 | 0.00093 | ug/l | |
| 375-85-9 | Perfluoroheptanoic acid | 0.0019 U | 0.0037 | 0.0019 | 0.00093 | ug/l | |
| 335-67-1 | Perfluorooctanoic acid | 0.0019 U | 0.0037 | 0.0019 | 0.00093 | ug/l | |
| 375-95-1 | Perfluorononanoic acid | 0.0019 U | 0.0037 | 0.0019 | 0.00093 | ug/l | |
| 335-76-2 | Perfluorodecanoic acid | 0.0019 U | 0.0037 | 0.0019 | 0.00093 | ug/l | |
| 2058-94-8 | Perfluoroundecanoic acid | 0.0019 U | 0.0037 | 0.0019 | 0.00093 | ug/l | |
| 307-55-1 | Perfluorododecanoic acid | 0.0019 U | 0.0037 | 0.0019 | 0.00093 | ug/l | |
| 72629-94-8 | Perfluorotridecanoic acid | 0.0019 U | 0.0037 | 0.0019 | 0.00093 | ug/l | |
| 376-06-7 | Perfluorotetradecanoic acid | 0.0019 U | 0.0037 | 0.0019 | 0.00093 | ug/l | |
| **PERFLUOROALKYLSULFONIC ACIDS** | | | | | | | |
| 375-73-5 | Perfluorobutanesulfonic acid | 0.0019 U | 0.0037 | 0.0019 | 0.00093 | ug/l | |
| 2706-91-4 | Perfluoropentanesulfonic acid | 0.0019 U | 0.0037 | 0.0019 | 0.00093 | ug/l | |
| 355-46-4 | Perfluorohexanesulfonic acid | 0.0019 U | 0.0037 | 0.0019 | 0.00093 | ug/l | |
| 375-92-8 | Perfluoroheptanesulfonic acid | 0.0019 U | 0.0037 | 0.0019 | 0.00093 | ug/l | |
| 1763-23-1 | Perfluorooctanesulfonic acid | 0.0019 U | 0.0037 | 0.0019 | 0.00093 | ug/l | |
| 68259-12-1 | Perfluorononanesulfonic acid | 0.0019 U | 0.0037 | 0.0019 | 0.00093 | ug/l | |
| 335-77-3 | Perfluorodecanesulfonic acid | 0.0019 U | 0.0037 | 0.0019 | 0.00093 | ug/l | |
| **PERFLUOROOCTANESULFONAMIDES** | | | | | | | |
| 754-91-6 | PFOSA | 0.0019 U | 0.0037 | 0.0019 | 0.00093 | ug/l | |
| **PERFLUOROOCTANESULFONAMIDOACETIC ACIDS** | | | | | | | |
| 2355-31-9 | MeFOSAA | 0.0037 U | 0.0074 | 0.0037 | 0.0019 | ug/l | |
| 2991-50-6 | EtFOSAA | 0.0037 U | 0.0074 | 0.0037 | 0.0019 | ug/l | |
| **FLUOROTELOMER SULFONATES** | | | | | | | |
| 757124-72-4 | 4:2 Fluorotelomer sulfonate | 0.0037 U | 0.0074 | 0.0037 | 0.0019 | ug/l | |
| 27619-97-2 | 6:2 Fluorotelomer sulfonate | 0.0037 U | 0.0074 | 0.0037 | 0.0019 | ug/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:** WRG-002-DW
**Lab Sample ID:** FA95650-2 **Date Sampled:** 05/05/22
**Matrix:** AQ - Water **Date Received:** 05/12/22
**Method:** EPA 537M QSM5.3 B-15 EPA 537 MOD **Percent Solids:** n/a
**Project:** 1222132

| CAS No. | Compound | Result | LOQ | LOD | DL | Units | Q |
|---|---|---|---|---|---|---|---|
| 39108-34-4 | 8:2 Fluorotelomer sulfonate | 0.0037 U | 0.0074 | 0.0037 | 0.0019 | ug/l | |

| CAS No. | ID Standard Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| | 13C4-PFBA | 89% | | 50-150% |
| | 13C5-PFPeA | 105% | | 50-150% |
| | 13C5-PFHxA | 105% | | 50-150% |
| | 13C4-PFHpA | 106% | | 50-150% |
| | 13C8-PFOA | 109% | | 50-150% |
| | 13C9-PFNA | 105% | | 50-150% |
| | 13C6-PFDA | 109% | | 50-150% |
| | 13C7-PFUnDA | 101% | | 50-150% |
| | 13C2-PFDoDA | 97% | | 50-150% |
| | 13C2-PFTeDA | 89% | | 50-150% |
| | 13C3-PFBS | 106% | | 50-150% |
| | 13C3-PFHxS | 103% | | 50-150% |
| | 13C8-PFOS | 98% | | 50-150% |
| | 13C8-FOSA | 101% | | 50-150% |
| | d3-MeFOSAA | 102% | | 50-150% |
| | d5-EtFOSAA | 101% | | 50-150% |
| | 13C2-4:2FTS | 100% | | 50-150% |
| | 13C2-6:2FTS | 104% | | 50-150% |
| | 13C2-8:2FTS | 99% | | 50-150% |

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:** | WRG-003-DW | | |
| **Lab Sample ID:** | FA95650-3 | **Date Sampled:** | 05/05/22 |
| **Matrix:** | AQ - Water | **Date Received:** | 05/12/22 |
| **Method:** | EPA 537M QSM5.3 B-15 EPA 537 MOD | **Percent Solids:** | n/a |
| **Project:** | 1222132 | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 4Q29304.D | 1 | 05/29/22 00:13 | MV | 05/24/22 09:00 | OP91346 | S4Q420 |
| Run #2 [a] | 6Q947.D | 1 | 06/02/22 19:37 | NG | 06/01/22 07:00 | OP91441 | S6Q16 |

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

| CAS No. | Compound | Result | LOQ | LOD | DL | Units | Q |
|---|---|---|---|---|---|---|---|
| **PERFLUOROALKYLCARBOXYLIC ACIDS** | | | | | | | |
| 375-22-4 | Perfluorobutanoic acid | 0.0036 U | 0.0071 | 0.0036 | 0.0018 | ug/l | |
| 2706-90-3 | Perfluoropentanoic acid | 0.0018 U | 0.0036 | 0.0018 | 0.00089 | ug/l | |
| 307-24-4 | Perfluorohexanoic acid | 0.0018 U | 0.0036 | 0.0018 | 0.00089 | ug/l | |
| 375-85-9 | Perfluoroheptanoic acid | 0.0018 U | 0.0036 | 0.0018 | 0.00089 | ug/l | |
| 335-67-1 | Perfluorooctanoic acid | 0.0018 U | 0.0036 | 0.0018 | 0.00089 | ug/l | |
| 375-95-1 | Perfluorononanoic acid | 0.0018 U | 0.0036 | 0.0018 | 0.00089 | ug/l | |
| 335-76-2 | Perfluorodecanoic acid | 0.0018 U | 0.0036 | 0.0018 | 0.00089 | ug/l | |
| 2058-94-8 | Perfluoroundecanoic acid | 0.0018 U | 0.0036 | 0.0018 | 0.00089 | ug/l | |
| 307-55-1 | Perfluorododecanoic acid | 0.0018 U | 0.0036 | 0.0018 | 0.00089 | ug/l | |
| 72629-94-8 | Perfluorotridecanoic acid | 0.0018 U | 0.0036 | 0.0018 | 0.00089 | ug/l | |
| 376-06-7 | Perfluorotetradecanoic acid [b] | 0.0018 U | 0.0036 | 0.0018 | 0.00089 | ug/l | |
| **PERFLUOROALKYLSULFONIC ACIDS** | | | | | | | |
| 375-73-5 | Perfluorobutanesulfonic acid | 0.0018 U | 0.0036 | 0.0018 | 0.00089 | ug/l | |
| 2706-91-4 | Perfluoropentanesulfonic acid | 0.0018 U | 0.0036 | 0.0018 | 0.00089 | ug/l | |
| 355-46-4 | Perfluorohexanesulfonic acid | 0.0026 | 0.0036 | 0.0018 | 0.00089 | ug/l | J |
| 375-92-8 | Perfluoroheptanesulfonic acid | 0.0018 U | 0.0036 | 0.0018 | 0.00089 | ug/l | |
| 1763-23-1 | Perfluorooctanesulfonic acid | 0.0018 U | 0.0036 | 0.0018 | 0.00089 | ug/l | |
| 68259-12-1 | Perfluorononanesulfonic acid | 0.0018 U | 0.0036 | 0.0018 | 0.00089 | ug/l | |
| 335-77-3 | Perfluorodecanesulfonic acid | 0.0018 U | 0.0036 | 0.0018 | 0.00089 | ug/l | |
| **PERFLUOROOCTANESULFONAMIDES** | | | | | | | |
| 754-91-6 | PFOSA | 0.0018 U | 0.0036 | 0.0018 | 0.00089 | ug/l | |
| **PERFLUOROOCTANESULFONAMIDOACETIC ACIDS** | | | | | | | |
| 2355-31-9 | MeFOSAA | 0.0036 U | 0.0071 | 0.0036 | 0.0018 | ug/l | |
| 2991-50-6 | EtFOSAA | 0.0036 U | 0.0071 | 0.0036 | 0.0018 | ug/l | |
| **FLUOROTELOMER SULFONATES** | | | | | | | |
| 757124-72-4 | 4:2 Fluorotelomer sulfonate | 0.0036 U | 0.0071 | 0.0036 | 0.0018 | ug/l | |
| 27619-97-2 | 6:2 Fluorotelomer sulfonate | 0.0036 U | 0.0071 | 0.0036 | 0.0018 | ug/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:** | WRG-003-DW | | |
| **Lab Sample ID:** | FA95650-3 | **Date Sampled:** | 05/05/22 |
| **Matrix:** | AQ - Water | **Date Received:** | 05/12/22 |
| **Method:** | EPA 537M QSM5.3 B-15 EPA 537 MOD | **Percent Solids:** | n/a |
| **Project:** | 1222132 | | |

| CAS No. | Compound | Result | LOQ | LOD | DL | Units | Q |
|---|---|---|---|---|---|---|---|
| 39108-34-4 | 8:2 Fluorotelomer sulfonate | 0.0036 U | 0.0071 | 0.0036 | 0.0018 | ug/l | |

| CAS No. | ID Standard Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| | 13C4-PFBA | 84% | 74% | 50-150% |
| | 13C5-PFPeA | 94% | 80% | 50-150% |
| | 13C5-PFHxA | 96% | 83% | 50-150% |
| | 13C4-PFHpA | 99% | 83% | 50-150% |
| | 13C8-PFOA | 105% | 80% | 50-150% |
| | 13C9-PFNA | 104% | 72% | 50-150% |
| | 13C6-PFDA | 101% | 65% | 50-150% |
| | 13C7-PFUnDA | 84% | 55% | 50-150% |
| | 13C2-PFDoDA | 69% | 50% | 50-150% |
| | 13C2-PFTeDA | 25% [c] | 38% [c] | 50-150% |
| | 13C3-PFBS | 95% | 81% | 50-150% |
| | 13C3-PFHxS | 98% | 80% | 50-150% |
| | 13C8-PFOS | 93% | 60% | 50-150% |
| | 13C8-FOSA | 54% | 48% [c] | 50-150% |
| | d3-MeFOSAA | 88% | 58% | 50-150% |
| | d5-EtFOSAA | 78% | 55% | 50-150% |
| | 13C2-4:2FTS | 93% | 77% | 50-150% |
| | 13C2-6:2FTS | 100% | 75% | 50-150% |
| | 13C2-8:2FTS | 94% | 55% | 50-150% |

(a) Confirmation run.
(b) Associated ID Standard outside control limits due to matrix interference. Confirmed by re-extraction and reanalysis.
(c) Outside control limits.

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:** | WRG-004-DW | | |
| **Lab Sample ID:** | FA95650-4 | **Date Sampled:** | 05/05/22 |
| **Matrix:** | AQ - Water | **Date Received:** | 05/12/22 |
| **Method:** | EPA 537M QSM5.3 B-15 EPA 537 MOD | **Percent Solids:** | n/a |
| **Project:** | 1222132 | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 4Q29305.D | 1 | 05/29/22 00:30 | MV | 05/24/22 09:00 | OP91346 | S4Q420 |
| Run #2 [a] | 4Q29390.D | 5 | 05/31/22 14:05 | MV | 05/24/22 09:00 | OP91346 | S4Q422 |

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

| CAS No. | Compound | Result | LOQ | LOD | DL | Units | Q |
|---|---|---|---|---|---|---|---|
| **PERFLUOROALKYLCARBOXYLIC ACIDS** | | | | | | | |
| 375-22-4 | Perfluorobutanoic acid | 0.0036 U | 0.0071 | 0.0036 | 0.0018 | ug/l | |
| 2706-90-3 | Perfluoropentanoic acid | 0.0018 U | 0.0036 | 0.0018 | 0.00089 | ug/l | |
| 307-24-4 | Perfluorohexanoic acid | 0.0018 U | 0.0036 | 0.0018 | 0.00089 | ug/l | |
| 375-85-9 | Perfluoroheptanoic acid | 0.0018 U | 0.0036 | 0.0018 | 0.00089 | ug/l | |
| 335-67-1 | Perfluorooctanoic acid | 0.0018 U | 0.0036 | 0.0018 | 0.00089 | ug/l | |
| 375-95-1 | Perfluorononanoic acid | 0.0018 U | 0.0036 | 0.0018 | 0.00089 | ug/l | |
| 335-76-2 | Perfluorodecanoic acid | 0.0018 U | 0.0036 | 0.0018 | 0.00089 | ug/l | |
| 2058-94-8 | Perfluoroundecanoic acid | 0.0018 U | 0.0036 | 0.0018 | 0.00089 | ug/l | |
| 307-55-1 | Perfluorododecanoic acid | 0.0018 U | 0.0036 | 0.0018 | 0.00089 | ug/l | |
| 72629-94-8 | Perfluorotridecanoic acid | 0.0018 U | 0.0036 | 0.0018 | 0.00089 | ug/l | |
| 376-06-7 | Perfluorotetradecanoic acid | 0.0089 U [b] | 0.018 | 0.0089 | 0.0045 | ug/l | |
| **PERFLUOROALKYLSULFONIC ACIDS** | | | | | | | |
| 375-73-5 | Perfluorobutanesulfonic acid | 0.0018 U | 0.0036 | 0.0018 | 0.00089 | ug/l | |
| 2706-91-4 | Perfluoropentanesulfonic acid | 0.0018 U | 0.0036 | 0.0018 | 0.00089 | ug/l | |
| 355-46-4 | Perfluorohexanesulfonic acid | 0.0024 | 0.0036 | 0.0018 | 0.00089 | ug/l | J |
| 375-92-8 | Perfluoroheptanesulfonic acid | 0.0018 U | 0.0036 | 0.0018 | 0.00089 | ug/l | |
| 1763-23-1 | Perfluorooctanesulfonic acid | 0.0018 U | 0.0036 | 0.0018 | 0.00089 | ug/l | |
| 68259-12-1 | Perfluorononanesulfonic acid | 0.0018 U | 0.0036 | 0.0018 | 0.00089 | ug/l | |
| 335-77-3 | Perfluorodecanesulfonic acid | 0.0018 U | 0.0036 | 0.0018 | 0.00089 | ug/l | |
| **PERFLUOROOCTANESULFONAMIDES** | | | | | | | |
| 754-91-6 | PFOSA | 0.0018 U | 0.0036 | 0.0018 | 0.00089 | ug/l | |
| **PERFLUOROOCTANESULFONAMIDOACETIC ACIDS** | | | | | | | |
| 2355-31-9 | MeFOSAA | 0.0036 U | 0.0071 | 0.0036 | 0.0018 | ug/l | |
| 2991-50-6 | EtFOSAA | 0.0036 U | 0.0071 | 0.0036 | 0.0018 | ug/l | |
| **FLUOROTELOMER SULFONATES** | | | | | | | |
| 757124-72-4 | 4:2 Fluorotelomer sulfonate | 0.0036 U | 0.0071 | 0.0036 | 0.0018 | ug/l | |
| 27619-97-2 | 6:2 Fluorotelomer sulfonate | 0.0036 U | 0.0071 | 0.0036 | 0.0018 | ug/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:** | WRG-004-DW | | |
| **Lab Sample ID:** | FA95650-4 | **Date Sampled:** | 05/05/22 |
| **Matrix:** | AQ - Water | **Date Received:** | 05/12/22 |
| **Method:** | EPA 537M QSM5.3 B-15 EPA 537 MOD | **Percent Solids:** | n/a |
| **Project:** | 1222132 | | |

| CAS No. | Compound | Result | LOQ | LOD | DL | Units | Q |
|---|---|---|---|---|---|---|---|
| 39108-34-4 | 8:2 Fluorotelomer sulfonate | 0.0036 U | 0.0071 | 0.0036 | 0.0018 | ug/l | |

| CAS No. | ID Standard Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| | 13C4-PFBA | 85% | 101% | 50-150% |
| | 13C5-PFPeA | 98% | 108% | 50-150% |
| | 13C5-PFHxA | 101% | 108% | 50-150% |
| | 13C4-PFHpA | 103% | 107% | 50-150% |
| | 13C8-PFOA | 108% | 112% | 50-150% |
| | 13C9-PFNA | 105% | 109% | 50-150% |
| | 13C6-PFDA | 96% | 108% | 50-150% |
| | 13C7-PFUnDA | 77% | 94% | 50-150% |
| | 13C2-PFDoDA | 58% | 82% | 50-150% |
| | 13C2-PFTeDA | 11% [c] | 59% | 50-150% |
| | 13C3-PFBS | 99% | 114% | 50-150% |
| | 13C3-PFHxS | 101% | 112% | 50-150% |
| | 13C8-PFOS | 89% | 110% | 50-150% |
| | 13C8-FOSA | 53% | 57% | 50-150% |
| | d3-MeFOSAA | 80% | 99% | 50-150% |
| | d5-EtFOSAA | 71% | 88% | 50-150% |
| | 13C2-4:2FTS | 96% | 101% | 50-150% |
| | 13C2-6:2FTS | 101% | 103% | 50-150% |
| | 13C2-8:2FTS | 91% | 99% | 50-150% |

(a) Dilution required due to matrix interference (ID recovery standard failure).
(b) Result is from Run# 2
(c) Outside control limits.

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:** WRG-005-DW
**Lab Sample ID:** FA95650-5
**Matrix:** AQ - Water
**Method:** EPA 537M QSM5.3 B-15 EPA 537 MOD
**Project:** 1222132

**Date Sampled:** 05/05/22
**Date Received:** 05/12/22
**Percent Solids:** n/a

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 4Q29306.D | 1 | 05/29/22 00:47 | MV | 05/24/22 09:00 | OP91346 | S4Q420 |
| Run #2 | | | | | | | |

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

| CAS No. | Compound | Result | LOQ | LOD | DL | Units | Q |
|---|---|---|---|---|---|---|---|
| **PERFLUOROALKYLCARBOXYLIC ACIDS** | | | | | | | |
| 375-22-4 | Perfluorobutanoic acid | 0.0036 U | 0.0071 | 0.0036 | 0.0018 | ug/l | |
| 2706-90-3 | Perfluoropentanoic acid | 0.0018 U | 0.0036 | 0.0018 | 0.00089 | ug/l | |
| 307-24-4 | Perfluorohexanoic acid | 0.0018 U | 0.0036 | 0.0018 | 0.00089 | ug/l | |
| 375-85-9 | Perfluoroheptanoic acid | 0.0018 U | 0.0036 | 0.0018 | 0.00089 | ug/l | |
| 335-67-1 | Perfluorooctanoic acid | 0.0018 U | 0.0036 | 0.0018 | 0.00089 | ug/l | |
| 375-95-1 | Perfluorononanoic acid | 0.0018 U | 0.0036 | 0.0018 | 0.00089 | ug/l | |
| 335-76-2 | Perfluorodecanoic acid | 0.0018 U | 0.0036 | 0.0018 | 0.00089 | ug/l | |
| 2058-94-8 | Perfluoroundecanoic acid | 0.0018 U | 0.0036 | 0.0018 | 0.00089 | ug/l | |
| 307-55-1 | Perfluorododecanoic acid | 0.0018 U | 0.0036 | 0.0018 | 0.00089 | ug/l | |
| 72629-94-8 | Perfluorotridecanoic acid | 0.0018 U | 0.0036 | 0.0018 | 0.00089 | ug/l | |
| 376-06-7 | Perfluorotetradecanoic acid | 0.0018 U | 0.0036 | 0.0018 | 0.00089 | ug/l | |
| **PERFLUOROALKYLSULFONIC ACIDS** | | | | | | | |
| 375-73-5 | Perfluorobutanesulfonic acid | 0.0018 U | 0.0036 | 0.0018 | 0.00089 | ug/l | |
| 2706-91-4 | Perfluoropentanesulfonic acid | 0.0018 U | 0.0036 | 0.0018 | 0.00089 | ug/l | |
| 355-46-4 | Perfluorohexanesulfonic acid | 0.0018 U | 0.0036 | 0.0018 | 0.00089 | ug/l | |
| 375-92-8 | Perfluoroheptanesulfonic acid | 0.0018 U | 0.0036 | 0.0018 | 0.00089 | ug/l | |
| 1763-23-1 | Perfluorooctanesulfonic acid | 0.0018 U | 0.0036 | 0.0018 | 0.00089 | ug/l | |
| 68259-12-1 | Perfluorononanesulfonic acid | 0.0018 U | 0.0036 | 0.0018 | 0.00089 | ug/l | |
| 335-77-3 | Perfluorodecanesulfonic acid | 0.0018 U | 0.0036 | 0.0018 | 0.00089 | ug/l | |
| **PERFLUOROOCTANESULFONAMIDES** | | | | | | | |
| 754-91-6 | PFOSA | 0.0018 U | 0.0036 | 0.0018 | 0.00089 | ug/l | |
| **PERFLUOROOCTANESULFONAMIDOACETIC ACIDS** | | | | | | | |
| 2355-31-9 | MeFOSAA | 0.0036 U | 0.0071 | 0.0036 | 0.0018 | ug/l | |
| 2991-50-6 | EtFOSAA | 0.0036 U | 0.0071 | 0.0036 | 0.0018 | ug/l | |
| **FLUOROTELOMER SULFONATES** | | | | | | | |
| 757124-72-4 | 4:2 Fluorotelomer sulfonate | 0.0036 U | 0.0071 | 0.0036 | 0.0018 | ug/l | |
| 27619-97-2 | 6:2 Fluorotelomer sulfonate | 0.0036 U | 0.0071 | 0.0036 | 0.0018 | ug/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:** | WRG-005-DW | | |
| **Lab Sample ID:** | FA95650-5 | **Date Sampled:** | 05/05/22 |
| **Matrix:** | AQ - Water | **Date Received:** | 05/12/22 |
| **Method:** | EPA 537M QSM5.3 B-15 EPA 537 MOD | **Percent Solids:** | n/a |
| **Project:** | 1222132 | | |

| CAS No. | Compound | Result | LOQ | LOD | DL | Units | Q |
|---|---|---|---|---|---|---|---|
| 39108-34-4 | 8:2 Fluorotelomer sulfonate | 0.0036 U | 0.0071 | 0.0036 | 0.0018 | ug/l | |

| CAS No. | ID Standard Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| | 13C4-PFBA | 98% | | 50-150% |
| | 13C5-PFPeA | 113% | | 50-150% |
| | 13C5-PFHxA | 114% | | 50-150% |
| | 13C4-PFHpA | 113% | | 50-150% |
| | 13C8-PFOA | 116% | | 50-150% |
| | 13C9-PFNA | 114% | | 50-150% |
| | 13C6-PFDA | 115% | | 50-150% |
| | 13C7-PFUnDA | 109% | | 50-150% |
| | 13C2-PFDoDA | 103% | | 50-150% |
| | 13C2-PFTeDA | 103% | | 50-150% |
| | 13C3-PFBS | 112% | | 50-150% |
| | 13C3-PFHxS | 114% | | 50-150% |
| | 13C8-PFOS | 106% | | 50-150% |
| | 13C8-FOSA | 113% | | 50-150% |
| | d3-MeFOSAA | 108% | | 50-150% |
| | d5-EtFOSAA | 107% | | 50-150% |
| | 13C2-4:2FTS | 104% | | 50-150% |
| | 13C2-6:2FTS | 109% | | 50-150% |
| | 13C2-8:2FTS | 107% | | 50-150% |

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

FA95650

**SGS North America Inc.**
**CHAIN OF CUSTODY RECORD**

Locations Nationwide
Alaska Florida
New Jersey Colorado
Texas North Carolina
Virginia Louisiana
www.us.sgs.com

| | | | |
|---|---|---|---|
| CLIENT: | SGS North America Inc. - Alaska Division | SGS Reference: | SGS Orlando, FL |
| CONTACT: | Julie Shumway | PHONE NO: | (907) 562-2343 |
| PROJECT NAME: | 1222132 | PWSID#: | |
| | | NPDL#: | |
| REPORTS TO: Julie Shumway | | E-MAIL: | Julie.Shumway@sgs.com; Env.Alaska.RefLabTeam@sgs.com |
| INVOICE TO: SGS - Alaska | | QUOTE #: | |
| env.alaska.accounting@sgs.com | | P.O. #: | 1222132 |

Additional Comments: All soils report out in dry weight unless

Page 1 of 1

| RESERVED for lab use | SAMPLE IDENTIFICATION | DATE mm/dd/yy | TIME HHMM | MATRIX/ MATRIX CODE | # CONTAINERS | Preservative Used: | Trizma | | | | MS | MSD | SGS lab # | Location ID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | TYPE C = COMP G = GRAB MI = Multi Incremental Solls | EPA 537 PFAS - 24 compound list | | | | | | | |
| 1 | WRG-001-DW | 5/4/2022 | 18:15:00 | DW | 1 | | X | | | | | | 1222132001 | |
| 2 | WRG-002-DW | 5/5/2022 | 09:25:00 | DW | 1 | | X | | | | | | 1222132002 | |
| 3 | WRG-003-DW | 5/5/2022 | 11:08:00 | DW | 1 | | X | | | | | | 1222132003 | |
| 4 | WRG-004-DW | 5/5/2022 | 11:10:00 | DW | 1 | | X | | | | | | 1222132004 | |
| 5 | WRG-005-DW | 5/5/2022 | 11:12:00 | DW | 1 | | X | | | | | | 1222132005 | |

| | Date | Time | Received By: |
|---|---|---|---|
| Relinquished By: (1) | 5/11/22 | 0908 | 5/12/22 1530 |
| Relinquished By: (2) | | | |
| Relinquished By: (3) | | | |
| Relinquished By: (4) | | | Received For Laboratory By: |

DOD Project? YES
Report to DL (J Flags)? YES
If J- Report as DL/LOD/LOQ.

Data Deliverable Requirements: Level 2 + SGS EDD

Cooler ID:

Requested Turnaround Time and-or Special Instructions:

Temp Blank °C: 5.0 CIRI
or Ambient [ ]

Chain of Custody Seal: (Circle)
INTACT BROKEN ABSENT

[X 200 W. Potter Drive Anchorage, AK 99518 Tel: (907) 562-2343 Fax: (907) 561-5301
[ ] 5500 Business Drive Wilmington, NC 28405 Tel: (910) 350-1903 Fax: (910) 350-1557

http://www.sgs.com/terms_and_conditions.htm

INITIAL ASSESSMENT NG

LABEL VERIFICATION cm

F088_COC_REF_LAB_20190411

**FA95650: Chain of Custody**
**Page 1 of 2**

# SGS Sample Receipt Summary

**Job Number:** FA95650 **Client:** SGS ALASKA **Project:** 1222132

**Date / Time Received:** 5/12/2022 3:30:00 PM **Delivery Method:** FEDEX **Airbill #'s:** 1483 4802 2726

**Therm ID:** IR 1; **Therm CF:** 0.4; **# of Coolers:** 1

**Cooler Temps (Raw Measured) °C:** Cooler 1: (5.0);

**Cooler Temps (Corrected) °C:** Cooler 1: (5.4);

| Cooler Information | Y | or | N |
|---|---|---|---|
| 1. Custody Seals Present | ☑ | | ☐ |
| 2. Custody Seals Intact | ☑ | | ☐ |
| 3. Temp criteria achieved | ☑ | | ☐ |
| 4. Cooler temp verification | IR Gun | | |
| 5. Cooler media | Ice (Bag) | | |

| Trip Blank Information | Y | or | N | N/A |
|---|---|---|---|---|
| 1. Trip Blank present / cooler | ☐ | | ☐ | ☑ |
| 2. Trip Blank listed on COC | ☐ | | ☐ | ☑ |

| | W | or | S | N/A |
|---|---|---|---|---|
| 3. Type Of TB Received | ☐ | | ☐ | ☑ |

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

**Misc. Information**

Number of Encores: 25-Gram _____ 5-Gram _____ Number of 5035 Field Kits: _____ Number of Lab Filtered Metals: _____

Test Strip Lot #s: pH 0-3 230315 pH 10-12 219813A Other: (Specify) _____ _____

Residual Chlorine Test Strip Lot #: _____

Comments

SM001
Rev. Date 05/24/17

Technician: SAMUELM Date: 5/12/2022 3:30:00 PM Reviewer: _____ Date: _____

**FA95650: Chain of Custody**
**Page 2 of 2**

# QC Evaluation: DOD QSM5.x Limits



**Job Number:** FA95650
**Account:** SGS North America, Inc
**Project:** 1222132
**Collected:** 05/04/22 thru 05/05/22

| QC Sample ID | CAS# | Analyte | Sample Type | Result Type | Result | Units | Limits |
|---|---|---|---|---|---|---|---|
| OP91346 | EPA 537M QSM5.3 B-15 | | | | | | |
| OP91346-BS | 375-22-4 | Perfluorobutanoic acid | BSP | REC | 88 | % | 73-129 |
| OP91346-BS | 2706-90-3 | Perfluoropentanoic acid | BSP | REC | 90 | % | 72-129 |
| OP91346-BS | 307-24-4 | Perfluorohexanoic acid | BSP | REC | 90 | % | 72-129 |
| OP91346-BS | 375-85-9 | Perfluoroheptanoic acid | BSP | REC | 89 | % | 72-130 |
| OP91346-BS | 335-67-1 | Perfluorooctanoic acid | BSP | REC | 88 | % | 71-133 |
| OP91346-BS | 375-95-1 | Perfluorononanoic acid | BSP | REC | 89 | % | 69-130 |
| OP91346-BS | 335-76-2 | Perfluorodecanoic acid | BSP | REC | 87 | % | 71-129 |
| OP91346-BS | 2058-94-8 | Perfluoroundecanoic acid | BSP | REC | 88 | % | 69-133 |
| OP91346-BS | 307-55-1 | Perfluorododecanoic acid | BSP | REC | 91 | % | 72-134 |
| OP91346-BS | 72629-94-8 | Perfluorotridecanoic acid | BSP | REC | 82 | % | 65-144 |
| OP91346-BS | 376-06-7 | Perfluorotetradecanoic acid | BSP | REC | 91 | % | 71-132 |
| OP91346-BS | 375-73-5 | Perfluorobutanesulfonic acid | BSP | REC | 89 | % | 72-130 |
| OP91346-BS | 2706-91-4 | Perfluoropentanesulfonic acid | BSP | REC | 89 | % | 71-127 |
| OP91346-BS | 355-46-4 | Perfluorohexanesulfonic acid | BSP | REC | 89 | % | 68-131 |
| OP91346-BS | 375-92-8 | Perfluoroheptanesulfonic acid | BSP | REC | 94 | % | 69-134 |
| OP91346-BS | 1763-23-1 | Perfluorooctanesulfonic acid | BSP | REC | 87 | % | 65-140 |
| OP91346-BS | 68259-12-1 | Perfluorononanesulfonic acid | BSP | REC | 89 | % | 69-127 |
| OP91346-BS | 335-77-3 | Perfluorodecanesulfonic acid | BSP | REC | 80 | % | 53-142 |
| OP91346-BS | 754-91-6 | PFOSA | BSP | REC | 90 | % | 67-137 |
| OP91346-BS | 2355-31-9 | MeFOSAA | BSP | REC | 90 | % | 65-136 |
| OP91346-BS | 2991-50-6 | EtFOSAA | BSP | REC | 90 | % | 61-135 |
| OP91346-BS | 757124-72-4 | 4:2 Fluorotelomer sulfonate | BSP | REC | 91 | % | 63-143 |
| OP91346-BS | 27619-97-2 | 6:2 Fluorotelomer sulfonate | BSP | REC | 91 | % | 64-140 |
| OP91346-BS | 39108-34-4 | 8:2 Fluorotelomer sulfonate | BSP | REC | 88 | % | 67-138 |
| OP91346-MS* | 375-22-4 | Perfluorobutanoic acid | MS | REC | 92 | % | 73-129 |
| OP91346-MS* | 2706-90-3 | Perfluoropentanoic acid | MS | REC | 95 | % | 72-129 |
| OP91346-MS* | 307-24-4 | Perfluorohexanoic acid | MS | REC | 92 | % | 72-129 |
| OP91346-MS* | 375-85-9 | Perfluoroheptanoic acid | MS | REC | 92 | % | 72-130 |
| OP91346-MS* | 335-67-1 | Perfluorooctanoic acid | MS | REC | 94 | % | 71-133 |
| OP91346-MS* | 375-95-1 | Perfluorononanoic acid | MS | REC | 95 | % | 69-130 |
| OP91346-MS* | 335-76-2 | Perfluorodecanoic acid | MS | REC | 90 | % | 71-129 |
| OP91346-MS* | 2058-94-8 | Perfluoroundecanoic acid | MS | REC | 91 | % | 69-133 |
| OP91346-MS* | 307-55-1 | Perfluorododecanoic acid | MS | REC | 95 | % | 72-134 |
| OP91346-MS* | 72629-94-8 | Perfluorotridecanoic acid | MS | REC | 90 | % | 65-144 |
| OP91346-MS* | 376-06-7 | Perfluorotetradecanoic acid | MS | REC | 94 | % | 71-132 |
| OP91346-MS* | 375-73-5 | Perfluorobutanesulfonic acid | MS | REC | 94 | % | 72-130 |
| OP91346-MS* | 2706-91-4 | Perfluoropentanesulfonic acid | MS | REC | 96 | % | 71-127 |
| OP91346-MS* | 355-46-4 | Perfluorohexanesulfonic acid | MS | REC | 95 | % | 68-131 |
| OP91346-MS* | 375-92-8 | Perfluoroheptanesulfonic acid | MS | REC | 101 | % | 69-134 |
| OP91346-MS* | 1763-23-1 | Perfluorooctanesulfonic acid | MS | REC | 92 | % | 65-140 |
| OP91346-MS* | 68259-12-1 | Perfluorononanesulfonic acid | MS | REC | 91 | % | 69-127 |
| OP91346-MS* | 335-77-3 | Perfluorodecanesulfonic acid | MS | REC | 84 | % | 53-142 |

* Sample used for QC is not from job FA95650

# QC Evaluation: DOD QSM5.x Limits



**Job Number:** FA95650
**Account:** SGS North America, Inc
**Project:** 1222132
**Collected:** 05/04/22 thru 05/05/22

| QC Sample ID | CAS# | Analyte | Sample Type | Result Type | Result | Units | Limits |
|---|---|---|---|---|---|---|---|
| OP91346-MS* | 754-91-6 | PFOSA | MS | REC | 94 | % | 67-137 |
| OP91346-MS* | 2355-31-9 | MeFOSAA | MS | REC | 95 | % | 65-136 |
| OP91346-MS* | 2991-50-6 | EtFOSAA | MS | REC | 97 | % | 61-135 |
| OP91346-MS* | 757124-72-4 | 4:2 Fluorotelomer sulfonate | MS | REC | 96 | % | 63-143 |
| OP91346-MS* | 27619-97-2 | 6:2 Fluorotelomer sulfonate | MS | REC | 96 | % | 64-140 |
| OP91346-MS* | 39108-34-4 | 8:2 Fluorotelomer sulfonate | MS | REC | 94 | % | 67-138 |
| OP91346-DUP* | 375-22-4 | Perfluorobutanoic acid | DUP | RPD | 6 | % | 30 |
| OP91346-DUP* | 2706-90-3 | Perfluoropentanoic acid | DUP | RPD | 3 | % | 30 |
| OP91346-DUP* | 307-24-4 | Perfluorohexanoic acid | DUP | RPD | 6 | % | 30 |
| OP91346-DUP* | 375-85-9 | Perfluoroheptanoic acid | DUP | RPD | 4 | % | 30 |
| OP91346-DUP* | 335-67-1 | Perfluorooctanoic acid | DUP | RPD | 6 | % | 30 |
| OP91346-DUP* | 375-95-1 | Perfluorononanoic acid | DUP | RPD | 0 | % | 30 |
| OP91346-DUP* | 335-76-2 | Perfluorodecanoic acid | DUP | RPD | 0 | % | 30 |
| OP91346-DUP* | 2058-94-8 | Perfluoroundecanoic acid | DUP | RPD | 0 | % | 30 |
| OP91346-DUP* | 307-55-1 | Perfluorododecanoic acid | DUP | RPD | 0 | % | 30 |
| OP91346-DUP* | 72629-94-8 | Perfluorotridecanoic acid | DUP | RPD | 0 | % | 30 |
| OP91346-DUP* | 376-06-7 | Perfluorotetradecanoic acid | DUP | RPD | 0 | % | 30 |
| OP91346-DUP* | 375-73-5 | Perfluorobutanesulfonic acid | DUP | RPD | 8 | % | 30 |
| OP91346-DUP* | 2706-91-4 | Perfluoropentanesulfonic acid | DUP | RPD | 7 | % | 30 |
| OP91346-DUP* | 355-46-4 | Perfluorohexanesulfonic acid | DUP | RPD | 4 | % | 30 |
| OP91346-DUP* | 375-92-8 | Perfluoroheptanesulfonic acid | DUP | RPD | 4 | % | 30 |
| OP91346-DUP* | 1763-23-1 | Perfluorooctanesulfonic acid | DUP | RPD | 0 | % | 30 |
| OP91346-DUP* | 68259-12-1 | Perfluorononanesulfonic acid | DUP | RPD | 0 | % | 30 |
| OP91346-DUP* | 335-77-3 | Perfluorodecanesulfonic acid | DUP | RPD | 0 | % | 30 |
| OP91346-DUP* | 754-91-6 | PFOSA | DUP | RPD | 0 | % | 30 |
| OP91346-DUP* | 2355-31-9 | MeFOSAA | DUP | RPD | 0 | % | 30 |
| OP91346-DUP* | 2991-50-6 | EtFOSAA | DUP | RPD | 0 | % | 30 |
| OP91346-DUP* | 757124-72-4 | 4:2 Fluorotelomer sulfonate | DUP | RPD | 0 | % | 30 |
| OP91346-DUP* | 27619-97-2 | 6:2 Fluorotelomer sulfonate | DUP | RPD | 0 | % | 30 |
| OP91346-DUP* | 39108-34-4 | 8:2 Fluorotelomer sulfonate | DUP | RPD | 0 | % | 30 |

* Sample used for QC is not from job FA95650

## 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:** FA95650
**Account:** SGSAKA SGS North America, Inc
**Project:** 1222132

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| S4Q420-IBLK | 4Q29246.D | 1 | 05/28/22 | MV | n/a | n/a | S4Q420 |



**The QC reported here applies to the following samples:** **Method:** EPA 537M QSM5.3 B-15

FA95650-1, FA95650-2, FA95650-3, FA95650-4, FA95650-5

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

| CAS No. | ID Standard Recoveries | | Limits |
|---|---|---|---|
| | 13C4-PFBA | 103% | 50-150% |
| | 13C5-PFPeA | 103% | 50-150% |
| | 13C5-PFHxA | 105% | 50-150% |
| | 13C4-PFHpA | 106% | 50-150% |
| | 13C8-PFOA | 109% | 50-150% |
| | 13C9-PFNA | 108% | 50-150% |
| | 13C6-PFDA | 114% | 50-150% |
| | 13C7-PFUnDA | 109% | 50-150% |

# Instrument Blank

**Job Number:** FA95650
**Account:** SGSAKA SGS North America, Inc
**Project:** 1222132

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| S4Q420-IBLK | 4Q29246.D | 1 | 05/28/22 | MV | n/a | n/a | S4Q420 |

**The QC reported here applies to the following samples:** **Method:** EPA 537M QSM5.3 B-15

FA95650-1, FA95650-2, FA95650-3, FA95650-4, FA95650-5

| CAS No. | ID Standard Recoveries | | Limits |
|---|---|---|---|
| | 13C2-PFDoDA | 107% | 50-150% |
| | 13C2-PFTeDA | 102% | 50-150% |
| | 13C3-PFBS | 103% | 50-150% |
| | 13C3-PFHxS | 106% | 50-150% |
| | 13C8-PFOS | 105% | 50-150% |
| | 13C8-FOSA | 112% | 50-150% |
| | d3-MeFOSA | 114% | 50-150% |
| | d3-MeFOSAA | 110% | 50-150% |
| | d5-EtFOSAA | 109% | 50-150% |
| | 13C2-4:2FTS | 97% | 50-150% |
| | 13C2-6:2FTS | 104% | 50-150% |
| | 13C2-8:2FTS | 106% | 50-150% |
| | 13C3-HFPO-DA | 99% | 50-150% |

# Instrument Blank

**Job Number:** FA95650
**Account:** SGSAKA SGS North America, Inc
**Project:** 1222132

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| S4Q422-IBLK | 4Q29378.D | 1 | 05/31/22 | MV | n/a | n/a | S4Q422 |

**The QC reported here applies to the following samples:** **Method:** EPA 537M QSM5.3 B-15

FA95650-4

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 376-06-7 | Perfluorotetradecanoic acid | ND | 0.0040 | 0.0010 | ug/l | |

| CAS No. | ID Standard Recoveries | | Limits |
|---|---|---|---|
| | 13C4-PFBA | 105% | 50-150% |
| | 13C5-PFPeA | 108% | 50-150% |
| | 13C5-PFHxA | 110% | 50-150% |
| | 13C4-PFHpA | 109% | 50-150% |
| | 13C8-PFOA | 111% | 50-150% |
| | 13C9-PFNA | 108% | 50-150% |
| | 13C6-PFDA | 113% | 50-150% |
| | 13C7-PFUnDA | 110% | 50-150% |
| | 13C2-PFDoDA | 107% | 50-150% |
| | 13C2-PFTeDA | 99% | 50-150% |
| | 13C3-PFBS | 107% | 50-150% |
| | 13C3-PFHxS | 108% | 50-150% |
| | 13C8-PFOS | 108% | 50-150% |
| | 13C8-FOSA | 98% | 50-150% |
| | d3-MeFOSA | 87% | 50-150% |
| | d3-MeFOSAA | 106% | 50-150% |
| | d5-EtFOSAA | 105% | 50-150% |
| | 13C2-4:2FTS | 98% | 50-150% |
| | 13C2-6:2FTS | 99% | 50-150% |
| | 13C2-8:2FTS | 101% | 50-150% |
| | 13C3-HFPO-DA | 116% | 50-150% |

# Method Blank Summary



**Job Number:** FA95650
**Account:** SGSAKA SGS North America, Inc
**Project:** 1222132

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| OP91346-MB | 4Q29280.D | 1 | 05/28/22 | MV | 05/24/22 | OP91346 | S4Q420 |

**The QC reported here applies to the following samples:** **Method:** EPA 537M QSM5.3 B-15

FA95650-1, FA95650-2, FA95650-3, FA95650-4, FA95650-5

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

| CAS No. | ID Standard Recoveries | | Limits |
|---|---|---|---|
| | 13C4-PFBA | 101% | 50-150% |
| | 13C5-PFPeA | 102% | 50-150% |
| | 13C5-PFHxA | 103% | 50-150% |
| | 13C4-PFHpA | 102% | 50-150% |
| | 13C8-PFOA | 107% | 50-150% |
| | 13C9-PFNA | 106% | 50-150% |
| | 13C6-PFDA | 111% | 50-150% |
| | 13C7-PFUnDA | 106% | 50-150% |

# Method Blank Summary



**Job Number:** FA95650
**Account:** SGSAKA SGS North America, Inc
**Project:** 1222132

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| OP91346-MB | 4Q29280.D | 1 | 05/28/22 | MV | 05/24/22 | OP91346 | S4Q420 |

**The QC reported here applies to the following samples:** **Method:** EPA 537M QSM5.3 B-15

FA95650-1, FA95650-2, FA95650-3, FA95650-4, FA95650-5

| CAS No. | ID Standard Recoveries | | Limits |
|---|---|---|---|
| | 13C2-PFDoDA | 101% | 50-150% |
| | 13C2-PFTeDA | 94% | 50-150% |
| | 13C3-PFBS | 102% | 50-150% |
| | 13C3-PFHxS | 104% | 50-150% |
| | 13C8-PFOS | 102% | 50-150% |
| | 13C8-FOSA | 102% | 50-150% |
| | d3-MeFOSAA | 106% | 50-150% |
| | d5-EtFOSAA | 104% | 50-150% |
| | 13C2-4:2FTS | 97% | 50-150% |
| | 13C2-6:2FTS | 102% | 50-150% |
| | 13C2-8:2FTS | 102% | 50-150% |
| | 13C3-HFPO-DA | 88% | 50-150% |

# Blank Spike Summary



**Job Number:** FA95650
**Account:** SGSAKA SGS North America, Inc
**Project:** 1222132

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| OP91346-BS | 4Q29279.D | 1 | 05/28/22 | MV | 05/24/22 | OP91346 | S4Q420 |



**The QC reported here applies to the following samples:** **Method:** EPA 537M QSM5.3 B-15

FA95650-1, FA95650-2, FA95650-3, FA95650-4, FA95650-5

| CAS No. | Compound | Spike ug/l | BSP ug/l | BSP % | Limits |
|---|---|---|---|---|---|
| 375-22-4 | Perfluorobutanoic acid | 0.08 | 0.0705 | 88 | 73-129 |
| 2706-90-3 | Perfluoropentanoic acid | 0.08 | 0.0719 | 90 | 72-129 |
| 307-24-4 | Perfluorohexanoic acid | 0.08 | 0.0718 | 90 | 72-129 |
| 375-85-9 | Perfluoroheptanoic acid | 0.08 | 0.0708 | 89 | 72-130 |
| 335-67-1 | Perfluorooctanoic acid | 0.08 | 0.0705 | 88 | 71-133 |
| 375-95-1 | Perfluorononanoic acid | 0.08 | 0.0710 | 89 | 69-130 |
| 335-76-2 | Perfluorodecanoic acid | 0.08 | 0.0693 | 87 | 71-129 |
| 2058-94-8 | Perfluoroundecanoic acid | 0.08 | 0.0705 | 88 | 69-133 |
| 307-55-1 | Perfluorododecanoic acid | 0.08 | 0.0725 | 91 | 72-134 |
| 72629-94-8 | Perfluorotridecanoic acid | 0.08 | 0.0655 | 82 | 65-144 |
| 376-06-7 | Perfluorotetradecanoic acid | 0.08 | 0.0724 | 91 | 71-132 |
| 375-73-5 | Perfluorobutanesulfonic acid | 0.08 | 0.0713 | 89 | 72-130 |
| 2706-91-4 | Perfluoropentanesulfonic acid | 0.08 | 0.0710 | 89 | 71-127 |
| 355-46-4 | Perfluorohexanesulfonic acid | 0.08 | 0.0713 | 89 | 68-131 |
| 375-92-8 | Perfluoroheptanesulfonic acid | 0.08 | 0.0751 | 94 | 69-134 |
| 1763-23-1 | Perfluorooctanesulfonic acid | 0.08 | 0.0699 | 87 | 65-140 |
| 68259-12-1 | Perfluorononanesulfonic acid | 0.08 | 0.0711 | 89 | 69-127 |
| 335-77-3 | Perfluorodecanesulfonic acid | 0.08 | 0.0642 | 80 | 53-142 |
| 754-91-6 | PFOSA | 0.08 | 0.0722 | 90 | 67-137 |
| 2355-31-9 | MeFOSAA | 0.08 | 0.0719 | 90 | 65-136 |
| 2991-50-6 | EtFOSAA | 0.08 | 0.0721 | 90 | 61-135 |
| 757124-72-4 | 4:2 Fluorotelomer sulfonate | 0.08 | 0.0731 | 91 | 63-143 |
| 27619-97-2 | 6:2 Fluorotelomer sulfonate | 0.08 | 0.0725 | 91 | 64-140 |
| 39108-34-4 | 8:2 Fluorotelomer sulfonate | 0.08 | 0.0705 | 88 | 67-138 |

| CAS No. | ID Standard Recoveries | BSP | Limits |
|---|---|---|---|
| | 13C4-PFBA | 110% | 50-150% |
| | 13C5-PFPeA | 112% | 50-150% |
| | 13C5-PFHxA | 112% | 50-150% |
| | 13C4-PFHpA | 112% | 50-150% |
| | 13C8-PFOA | 114% | 50-150% |
| | 13C9-PFNA | 114% | 50-150% |
| | 13C6-PFDA | 115% | 50-150% |
| | 13C7-PFUnDA | 113% | 50-150% |

* = Outside of Control Limits.

# Blank Spike Summary



**Job Number:** FA95650
**Account:** SGSAKA SGS North America, Inc
**Project:** 1222132

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| OP91346-BS | 4Q29279.D | 1 | 05/28/22 | MV | 05/24/22 | OP91346 | S4Q420 |

**The QC reported here applies to the following samples:** **Method:** EPA 537M QSM5.3 B-15

FA95650-1, FA95650-2, FA95650-3, FA95650-4, FA95650-5

| CAS No. | ID Standard Recoveries | BSP | Limits |
|---|---|---|---|
| | 13C2-PFDoDA | 107% | 50-150% |
| | 13C2-PFTeDA | 98% | 50-150% |
| | 13C3-PFBS | 111% | 50-150% |
| | 13C3-PFHxS | 114% | 50-150% |
| | 13C8-PFOS | 110% | 50-150% |
| | 13C8-FOSA | 102% | 50-150% |
| | d3-MeFOSAA | 112% | 50-150% |
| | d5-EtFOSAA | 109% | 50-150% |
| | 13C2-4:2FTS | 112% | 50-150% |
| | 13C2-6:2FTS | 114% | 50-150% |
| | 13C2-8:2FTS | 115% | 50-150% |
| | 13C3-HFPO-DA | 96% | 50-150% |

* = Outside of Control Limits.

# Matrix Spike Summary



**Job Number:** FA95650
**Account:** SGSAKA SGS North America, Inc
**Project:** 1222132

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| OP91346-MS | 4Q29295.D | 1 | 05/28/22 | MV | 05/24/22 | OP91346 | S4Q420 |
| FA95635-11 | 4Q29294.D | 1 | 05/28/22 | MV | 05/24/22 | OP91346 | S4Q420 |

**The QC reported here applies to the following samples:** **Method:** EPA 537M QSM5.3 B-15

FA95650-1, FA95650-2, FA95650-3, FA95650-4, FA95650-5

| CAS No. | Compound | FA95635-11 ug/l | Q | Spike ug/l | MS ug/l | MS % | Limits |
|---|---|---|---|---|---|---|---|
| 375-22-4 | Perfluorobutanoic acid | 0.0042 | J | 0.16 | 0.152 | 92 | 73-129 |
| 2706-90-3 | Perfluoropentanoic acid | 0.0103 | | 0.16 | 0.163 | 95 | 72-129 |
| 307-24-4 | Perfluorohexanoic acid | 0.0106 | | 0.16 | 0.158 | 92 | 72-129 |
| 375-85-9 | Perfluoroheptanoic acid | 0.0064 | J | 0.16 | 0.154 | 92 | 72-130 |
| 335-67-1 | Perfluorooctanoic acid | 0.0103 | | 0.16 | 0.160 | 94 | 71-133 |
| 375-95-1 | Perfluorononanoic acid | 0.0080 | U | 0.16 | 0.152 | 95 | 69-130 |
| 335-76-2 | Perfluorodecanoic acid | 0.0080 | U | 0.16 | 0.144 | 90 | 71-129 |
| 2058-94-8 | Perfluoroundecanoic acid | 0.0080 | U | 0.16 | 0.146 | 91 | 69-133 |
| 307-55-1 | Perfluorododecanoic acid | 0.0080 | U | 0.16 | 0.152 | 95 | 72-134 |
| 72629-94-8 | Perfluorotridecanoic acid | 0.0080 | U | 0.16 | 0.144 | 90 | 65-144 |
| 376-06-7 | Perfluorotetradecanoic acid | 0.0080 | U | 0.16 | 0.151 | 94 | 71-132 |
| 375-73-5 | Perfluorobutanesulfonic acid | 0.0041 | J | 0.16 | 0.154 | 94 | 72-130 |
| 2706-91-4 | Perfluoropentanesulfonic acid | 0.0080 | U | 0.16 | 0.153 | 96 | 71-127 |
| 355-46-4 | Perfluorohexanesulfonic acid | 0.0393 | | 0.16 | 0.191 | 95 | 68-131 |
| 375-92-8 | Perfluoroheptanesulfonic acid | 0.0080 | U | 0.16 | 0.161 | 101 | 69-134 |
| 1763-23-1 | Perfluorooctanesulfonic acid | 0.0034 | J | 0.16 | 0.151 | 92 | 65-140 |
| 68259-12-1 | Perfluorononanesulfonic acid | 0.0080 | U | 0.16 | 0.146 | 91 | 69-127 |
| 335-77-3 | Perfluorodecanesulfonic acid | 0.0080 | U | 0.16 | 0.134 | 84 | 53-142 |
| 754-91-6 | PFOSA | 0.0080 | U | 0.16 | 0.151 | 94 | 67-137 |
| 2355-31-9 | MeFOSAA | 0.016 | U | 0.16 | 0.152 | 95 | 65-136 |
| 2991-50-6 | EtFOSAA | 0.016 | U | 0.16 | 0.155 | 97 | 61-135 |
| 757124-72-4 | 4:2 Fluorotelomer sulfonate | 0.016 | U | 0.16 | 0.153 | 96 | 63-143 |
| 27619-97-2 | 6:2 Fluorotelomer sulfonate | 0.016 | U | 0.16 | 0.154 | 96 | 64-140 |
| 39108-34-4 | 8:2 Fluorotelomer sulfonate | 0.016 | U | 0.16 | 0.151 | 94 | 67-138 |

| CAS No. | ID Standard Recoveries | MS | FA95635-11 | Limits |
|---|---|---|---|---|
| | 13C4-PFBA | 111% | 108% | 50-150% |
| | 13C5-PFPeA | 115% | 112% | 50-150% |
| | 13C5-PFHxA | 117% | 113% | 50-150% |
| | 13C4-PFHpA | 117% | 116% | 50-150% |
| | 13C8-PFOA | 118% | 118% | 50-150% |
| | 13C9-PFNA | 117% | 117% | 50-150% |
| | 13C6-PFDA | 117% | 118% | 50-150% |
| | 13C7-PFUnDA | 115% | 111% | 50-150% |

* = Outside of Control Limits.

# Matrix Spike Summary



**Job Number:** FA95650
**Account:** SGSAKA SGS North America, Inc
**Project:** 1222132

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| OP91346-MS | 4Q29295.D | 1 | 05/28/22 | MV | 05/24/22 | OP91346 | S4Q420 |
| FA95635-11 | 4Q29294.D | 1 | 05/28/22 | MV | 05/24/22 | OP91346 | S4Q420 |

**The QC reported here applies to the following samples:** **Method:** EPA 537M QSM5.3 B-15

FA95650-1, FA95650-2, FA95650-3, FA95650-4, FA95650-5

| CAS No. | ID Standard Recoveries | MS | FA95635-11 | Limits |
|---|---|---|---|---|
| | 13C2-PFDoDA | 114% | 109% | 50-150% |
| | 13C2-PFTeDA | 112% | 106% | 50-150% |
| | 13C3-PFBS | 114% | 110% | 50-150% |
| | 13C3-PFHxS | 113% | 114% | 50-150% |
| | 13C8-PFOS | 112% | 107% | 50-150% |
| | 13C8-FOSA | 118% | 120% | 50-150% |
| | d3-MeFOSAA | 117% | 114% | 50-150% |
| | d5-EtFOSAA | 116% | 109% | 50-150% |
| | 13C2-4:2FTS | 118% | 108% | 50-150% |
| | 13C2-6:2FTS | 118% | 113% | 50-150% |
| | 13C2-8:2FTS | 118% | 110% | 50-150% |
| | 13C3-HFPO-DA | 98% | | 50-150% |

* = Outside of Control Limits.

# Duplicate Summary



**Job Number:** FA95650
**Account:** SGSAKA SGS North America, Inc
**Project:** 1222132

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| OP91346-DUP | 4Q29300.D | 1 | 05/28/22 | MV | 05/24/22 | OP91346 | S4Q420 |
| FA95635-12 | 4Q29299.D | 1 | 05/28/22 | MV | 05/24/22 | OP91346 | S4Q420 |

**The QC reported here applies to the following samples:** **Method:** EPA 537M QSM5.3 B-15

FA95650-1, FA95650-2, FA95650-3, FA95650-4, FA95650-5

| CAS No. | Compound | FA95635-12 ug/l | Q | DUP ug/l | Q | RPD | Limits |
|---|---|---|---|---|---|---|---|
| 375-22-4 | Perfluorobutanoic acid | 0.0112 | J | 0.0106 | J | 6 | 30 |
| 2706-90-3 | Perfluoropentanoic acid | 0.0331 | | 0.0321 | | 3 | 30 |
| 307-24-4 | Perfluorohexanoic acid | 0.0250 | | 0.0236 | | 6 | 30 |
| 375-85-9 | Perfluoroheptanoic acid | 0.0167 | | 0.0161 | | 4 | 30 |
| 335-67-1 | Perfluorooctanoic acid | 0.0167 | | 0.0158 | | 6 | 30 |
| 375-95-1 | Perfluorononanoic acid | 0.0080 | U | ND | | nc | 30 |
| 335-76-2 | Perfluorodecanoic acid | 0.0080 | U | ND | | nc | 30 |
| 2058-94-8 | Perfluoroundecanoic acid | 0.0080 | U | ND | | nc | 30 |
| 307-55-1 | Perfluorododecanoic acid | 0.0080 | U | ND | | nc | 30 |
| 72629-94-8 | Perfluorotridecanoic acid | 0.0080 | U | ND | | nc | 30 |
| 376-06-7 | Perfluorotetradecanoic acid | 0.0080 | U | ND | | nc | 30 |
| 375-73-5 | Perfluorobutanesulfonic acid | 0.0027 | J | 0.0025 | J | 8 | 30 |
| 2706-91-4 | Perfluoropentanesulfonic acid | 0.0042 | J | 0.0039 | J | 7 | 30 |
| 355-46-4 | Perfluorohexanesulfonic acid | 0.0859 | | 0.0827 | | 4 | 30 |
| 375-92-8 | Perfluoroheptanesulfonic acid | 0.0024 | J | 0.0025 | J | 4 | 30 |
| 1763-23-1 | Perfluorooctanesulfonic acid | 0.0080 | U | ND | | nc | 30 |
| 68259-12-1 | Perfluorononanesulfonic acid | 0.0080 | U | ND | | nc | 30 |
| 335-77-3 | Perfluorodecanesulfonic acid | 0.0080 | U | ND | | nc | 30 |
| 754-91-6 | PFOSA | 0.0080 | U | ND | | nc | 30 |
| 2355-31-9 | MeFOSAA | 0.016 | U | ND | | nc | 30 |
| 2991-50-6 | EtFOSAA | 0.016 | U | ND | | nc | 30 |
| 757124-72-4 | 4:2 Fluorotelomer sulfonate | 0.016 | U | ND | | nc | 30 |
| 27619-97-2 | 6:2 Fluorotelomer sulfonate | 0.016 | U | ND | | nc | 30 |
| 39108-34-4 | 8:2 Fluorotelomer sulfonate | 0.016 | U | ND | | nc | 30 |

| CAS No. | ID Standard Recoveries | DUP | FA95635-12 | Limits |
|---|---|---|---|---|
| | 13C4-PFBA | 103% | 96% | 50-150% |
| | 13C5-PFPeA | 111% | 104% | 50-150% |
| | 13C5-PFHxA | 113% | 105% | 50-150% |
| | 13C4-PFHpA | 113% | 106% | 50-150% |
| | 13C8-PFOA | 116% | 110% | 50-150% |
| | 13C9-PFNA | 115% | 107% | 50-150% |
| | 13C6-PFDA | 115% | 110% | 50-150% |
| | 13C7-PFUnDA | 112% | 105% | 50-150% |

* = Outside of Control Limits.

# Duplicate Summary



**Job Number:** FA95650
**Account:** SGSAKA SGS North America, Inc
**Project:** 1222132

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| OP91346-DUP | 4Q29300.D | 1 | 05/28/22 | MV | 05/24/22 | OP91346 | S4Q420 |
| FA95635-12 | 4Q29299.D | 1 | 05/28/22 | MV | 05/24/22 | OP91346 | S4Q420 |

**The QC reported here applies to the following samples:** **Method:** EPA 537M QSM5.3 B-15

FA95650-1, FA95650-2, FA95650-3, FA95650-4, FA95650-5

| CAS No. | ID Standard Recoveries | DUP | FA95635-12 | Limits |
|---|---|---|---|---|
| | 13C2-PFDoDA | 109% | 103% | 50-150% |
| | 13C2-PFTeDA | 107% | 98% | 50-150% |
| | 13C3-PFBS | 111% | 102% | 50-150% |
| | 13C3-PFHxS | 111% | 104% | 50-150% |
| | 13C8-PFOS | 107% | 103% | 50-150% |
| | 13C8-FOSA | 114% | 112% | 50-150% |
| | d3-MeFOSAA | 114% | 109% | 50-150% |
| | d5-EtFOSAA | 115% | 108% | 50-150% |
| | 13C2-4:2FTS | 108% | 101% | 50-150% |
| | 13C2-6:2FTS | 111% | 105% | 50-150% |
| | 13C2-8:2FTS | 108% | 104% | 50-150% |
| | 13C3-HFPO-DA | 98% | | 50-150% |

* = Outside of Control Limits.

## SGS DW Chemistry Certified Analyses
## Applicable to PWSID Samples

ADEC DW-Chemical Certificate AK00971, expires 6-30-2022

| Method/ Test Name | Reference | Analyte | Method/ Test Name | Reference | Analyte |
|---|---|---|---|---|---|
| 200.8 | EPA | Aluminum | 524.2 | EPA | Benzene-R |
| 200.8 | EPA | Antimony | 524.2 | EPA | Bromodichloromethane-T |
| 200.8 | EPA | Arsenic | 524.2 | EPA | Bromoform-T |
| 200.8 | EPA | Barium | 524.2 | EPA | Carbon Tetrachloride-R |
| 200.8 | EPA | Beryllium | 524.2 | EPA | Chlorobenzene-R |
| 200.8 | EPA | Cadmium | 524.2 | EPA | Chloroform-T |
| 200.8 | EPA | Chromium | 524.2 | EPA | cis-1,2-Dichloroethylene-R |
| 200.8 | EPA | Copper | 524.2 | EPA | Dibromochloromethane-T |
| 200.8 | EPA | Lead | 524.2 | EPA | Dichloromethane (Methylene Chloride)-R |
| 200.8 | EPA | Manganese | 524.2 | EPA | Ethylbenzene-R |
| 200.8 | EPA | Mercury | 524.2 | EPA | Styrene-R |
| 200.8 | EPA | Nickel | 524.2 | EPA | Tetrachloroethylene-R |
| 200.8 | EPA | Selenium | 524.2 | EPA | Toluene-R |
| 200.8 | EPA | Silver | 524.2 | EPA | Total THM-T |
| 200.8 | EPA | Thallium | 524.2 | EPA | Total Xylenes-R |
| 200.8 | EPA | Zinc | 524.2 | EPA | trans-1,2 Dichloroethylene |
| 300.0 | EPA | Chloride | 524.2 | EPA | Trichloroethylene-R |
| 300.0 | EPA | Fluoride | 524.2 | EPA | Vinyl Chloride-R |
| 300.0 | EPA | Nitrate-N | 2120B | SM 21st ed | Color |
| 300.0 | EPA | Nitrate-Nitrite as N | 2130B | SM 21st ed | Turbidity |
| 300.0 | EPA | Nitrite-N | 2320B | SM 21st ed | Alkalinity |
| 300.0 | EPA | Sulfate | 2510B | SM 21st ed | Conductivity |
| 524.2 | EPA | 1,1,1-Trichloroethane-R | 2540C | SM 21st ed | TDS |
| 524.2 | EPA | 1,1,2-Trichloroethane-R | 4500-CN-C,E | SM 21st ed | Cyanide |
| 524.2 | EPA | 1,1-Dichloroethylene-R | 4500-H-B | SM 21st ed | pH |
| 524.2 | EPA | 1,2,4-Trichlorobenzene-R | 4500-NO3-F | SM 21st ed | Nitrate-N |
| 524.2 | EPA | 1,2-Dichlorobenzene-R | 4500-NO3-F | SM 21st ed | Nitrite-N |
| 524.2 | EPA | 1,2-Dichloroethane-R | 4500-P-E | SM 21st ed | Ortho-phosphate |
| 524.2 | EPA | 1,2-Dichloropropane-R | 5310B | SM 21st ed | Dissolved Organic Carbon (DOC) |
| 524.2 | EPA | 1,4-Dichlorobenzene-R | 5310B | SM 21st ed | Total Organic Carbon (TOC) |

ADEC DW-Micro Certificate AK00971, expires 6-30-2022

| Method/ Test Name | Reference | Analyte | Method/ Test Name | Reference | Analyte |
|---|---|---|---|---|---|
| 9215 B HPC Pour Plate | SM | Heterotrophic | 9223 B Colilert-18 MPN | SM | E. coli |
| 9223 B Colilert MPN | SM | E. coli | 9223 B Colilert-18 PA | SM | E. coli |
| 9223 B Colilert PA | SM | E. coli | 9223 B Colilert-18 PA | SM | Total Coliform |
| 9223 B Colilert PA | SM | Total Coliform | | | |