


Kenton Curtis
AK DOT-PF Anch Intl Airport
4100 Aircraft Drive
Anchorage, AK 99502

Results via Engage

| | | |
|---------------------|--|------------------------|
| Work Order: | 1191213 | Jillian Janssen |
| |  Drinking Water | 2019.04.03 |
| Client: | AK DOT-PF Anch Intl Airport | 16:27:22 |
| Report Date: | April 03, 2019 | -08'00' |


Jillian Janssen
SGS North America, Inc.
Environmental Services - Alaska Division
Project Manager

Enclosed are the analytical results associated with the above work order. The results apply to the samples as received. All results are intended to be used in their entirety and SGS is not responsible for use of less than the complete report. If you have any questions regarding this report, or if we can be of any other assistance, please contact your SGS Project Manager at 907-562-2343. This document is issued by the Company under its General Conditions of Service accessible at <<http://www.sgs.com/en/Terms-and-Conditions.aspx>>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS maintains a formal Quality Assurance/Quality Control (QA/QC) program. A copy of our Quality Assurance Plan (QAP), which outlines this program, is available at your request. The laboratory certification numbers are AK00971 (DW Chemistry & Microbiology) & 17-021 (CS) for ADEC and 2944.01 for DOD ELAP/ISO 17025 (RCRA methods: 1020B, 1311, 3010A, 3050B, 3520C, 3550C, 5030B, 5035A, 6020A, 7470A, 7471B, 8015C, 8021B, 8082A, 8260C, 8270D, 8270D-SIM, 9040C, 9045D, 9056A, 9060A, AK101 and AK102/103). Except as specifically noted, all statements and data in this report are in conformance to the provisions set forth by the SGS QAP and, when applicable, other regulatory authorities. The following descriptors or qualifiers may be found in your report:

| | |
|--------------------|---|
| * | The analyte has exceeded allowable regulatory or control limits. |
| ! | Surrogate out of control limits. |
| B | Indicates the analyte is found in a blank associated with the sample. |
| CCV/CVA/CVB | Continuing Calibration Verification |
| CCCV/CVC/CVCA/CVCB | Closing Continuing Calibration Verification |
| CL | Control Limit |
| DF | Analytical Dilution Factor |
| DL | Detection Limit (i.e., maximum method detection limit) |
| E | The analyte result is above the calibrated range. |
| GT | Greater Than |
| ICV | Initial Calibration Verification |
| J | The quantitation is an estimation. |
| LCS(D) | Laboratory Control Spike (Duplicate) |
| LLQC/LLIQC | Low Level Quantitation Check |
| LOD | Limit of Detection (i.e., 1/2 of the LOQ) |
| LOQ | Limit of Quantitation (i.e., reporting or practical quantitation limit) |
| LT | Less Than |
| MB | Method Blank |
| MS(D) | Matrix Spike (Duplicate) |
| ND | Indicates the analyte is not detected. |
| RPD | Relative Percent Difference |
| U | Indicates the analyte was analyzed for but not detected. |

Note: Sample summaries which include a result for "Total Solids" have already been adjusted for moisture content.
All DRO/RRO analyses are integrated per SOP.

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| CLIENT: DEPARTMENT OF TRANSPORTATION ANCHORAGE AIRPORT | | | | Instructions: Sections 1 - 5 must be filled out. Omissions may delay the onset of analysis. | | | | | | | | | | | | Page ____ of ____ | | | | | | | | | | | | | |
|---|--|--|--|--|--|---------------|--|--|--|---|--|---------------|--|-------------------------------------|--|-------------------|--|--|--|--|--|--------------------|--|------------------------------------|--|---|--|--------------------------------|--|
| CONTACT: KENTON CURTIS | | | | PHONE NO: 907-266-2P32 | | | | Section 3 | | Preservative | | | | | | | | | | | | | | | | | | | |
| PROJECT NAME: CANDIDATE FOR ALASKA FCC DRINKING WATER | | | | PROJECT/ PWSID/ PERMIT#: | | | | # C O N T A I N E R S Type C = COMP G = GRAB MI = Multi Incremental Soils | | <div style="position: relative; height: 100px;"> TURNAROUND FULL LIST <div style="position: absolute; bottom: 0; right: 0; background-color: #f0f0f0; padding: 5px; font-size: x-small;"> EPA 534 (PFAS) </div> </div> | | | | | | | | | | | | REMARKS/ LOC ID | | | | | | | |
| REPORTS TO: KENTON CURTIS | | | | E-MAIL: KENTON.CURTIS@ALASKA.GOV | | | | | | | | | | | | | | | | | | | | | | | | | |
| INVOICE TO: KENTON CURTIS | | | | QUOTE #: P.O. #: | | | | | | | | | | | | | | | | | | | | | | | | | |
| RESERVED for lab use | | SAMPLE IDENTIFICATION | | DATE mm/dd/yy | | TIME HH:MM | | MATRIX/ MATRIX CODE | | | | | | | | | | | | | | | | | | | | | |
| (1) AB | | <div style="background-color: black; width: 50px; height: 15px;"></div> PFAS | | 3/20/2019 | | 12:20 | | AG | | 2 GRAB X | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Relinquished By: (1) | | | | | | | | | | Date 3/20/2019 | | Time 12:48 | | Received By: | | | | | | | | | | Section 4 | | DOD Project? Yes No | | Data Deliverable Requirements: | |
| Relinquished By: (2) | | | | | | | | | | Date | | Time | | Received By: | | | | | | | | | | Cooler ID: | | Requested Turnaround Time and/or Special Instructions: | | | |
| Relinquished By: (3) | | | | | | | | | | Date | | Time | | Received By: | | | | | | | | | | | | | | | |
| Relinquished By: (4) | | | | | | | | | | Date 3-26-19 | | Time 12:50 | | Received For Laboratory By: E-17 | | | | | | | | | | Temp Blank °C: _____ or Ambient | | Chain of Custody Seal: (Circle) INTACT BROKEN <u>ABSENT</u> | | | |
| (See attached Sample Receipt Form) | | | | | | | | | | | | | | (See attached Sample Receipt Form) | | | | | | | | | | | | | | | |



| Review Criteria | | Condition (Yes, No, N/A) | Exceptions Noted below | |
|--|------------|--|------------------------|---|
| Chain of Custody / Temperature Requirements | | | Yes | Exemption permitted if sampler hand carries/delivers. |
| Were Custody Seals intact? Note # & location | | N/A | | |
| COC accompanied samples? | | Yes | | |
| <div>N/A</div> **Exemption permitted if chilled & collected <8 hours ago, or for samples where chilling is not required | | | | |
| Temperature blank compliant* (i.e., 0-6 °C after CF)? | Cooler ID: | 1 | @ | Ambient °C Therm. ID: |
| | Cooler ID: | | @ | °C Therm. ID: |
| | Cooler ID: | | @ | °C Therm. ID: |
| | Cooler ID: | | @ | °C Therm. ID: |
| | Cooler ID: | | @ | °C Therm. ID: |
| *If >6°C, were samples collected <8 hours ago? | | N/A | | |
| If <0°C, were sample containers ice free? | | N/A | | |
| If samples received <u>without</u> a temperature blank, the "cooler temperature" will be documented in lieu of the temperature blank & "COOLER TEMP" will be noted to the right. In cases where neither a temp blank nor cooler temp can be obtained, note "ambient" or "chilled". | | | | |
| Note: Identify containers received at non-compliant temperature . 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. | | |
| Were samples received within holding time? | | Yes | | |
| Do samples match COC ** (i.e., sample IDs, dates/times collected)? | | Yes | | |
| **Note: If times differ <1hr, record details & login per COC. | | | | |
| Were analyses requested unambiguous? (i.e., method is specified for analyses with >1 option for analysis) | | Yes | | |
| Were proper containers (type/mass/volume/preservative***) used? | | Yes | | |
| Volatile / LL-Hg Requirements | | | | |
| Were Trip Blanks (i.e., VOAs, LL-Hg) in cooler with samples? | | N/A | | |
| Were all water VOA vials free of headspace (i.e., bubbles ≤ 6mm)? | | N/A | | |
| Were all soil VOAs field extracted with MeOH+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

| <u>Container Id</u> | <u>Preservative</u> | <u>Container Condition</u> | <u>Container Id</u> | <u>Preservative</u> | <u>Container Condition</u> |
|---------------------|--------------------------|----------------------------|---------------------|---------------------|----------------------------|
| 1191213001-A | No Preservative Required | OK | | | |
| 1191213001-B | No Preservative Required | 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.

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.



FINAL LAB REPORT

1191213

31900469

03-Apr-2019

Prepared by

SGS NORTH AMERICA

Prepared for

SGS North America Inc.

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This report is approved by

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Senior Project Manager

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SGS CERTIFICATIONS

| | |
|--|--|
| Alaska | 17-012 |
| Arkansas | 18-042-0 |
| California (ELAP) | ELAP Cert #2914 |
| CLIA | 34D1013708 |
| Connecticut | PH-0258 |
| USDA Soil Permit | P330-17-00055 |
| American Association for Laboratory Accreditation (A2LA) | 2726.01 (ISO 17025:2005, 2009 TNI, DoD ELAP QSM 5.1) |
| Florida DOH | E87634 |
| Louisiana DEQ | 4115 |
| Louisiana DOH | LA031 |
| Maine | 2018018 |
| Massachusetts | M-NC919 |
| Minnesota (Primary NELAP For Method 23) | 1535636 |
| Mississippi | Reciprocity |
| Montana | 0106 |
| New Hampshire | 208318 & 208518 |
| New Jersey | NC100 |
| New York | 11685 |
| North Carolina DEQ | 481 |
| North Dakota | R-197 |
| Oregon | NC200002 |
| Pennsylvania | 68-03675 |
| South Carolina | 99029002 |
| Texas | T104704260 |
| US Coast Guard | 16714/159.317/SGS |
| Vermont | VT-87634 |
| Virginia | 10101 |
| Washington | C913 |
| West Virginia | 293 |

Rev. 06-Mar-2019

Laboratory Qualifiers

Report Definitions

| | |
|--------|--|
| DL | Method, Instrument, or Estimated Detection Limit per Analytical Method |
| CL | Control Limits for the recovery result of a parameter |
| LOQ | Reporting Limit |
| DF | Dilution Factor |
| RPD | Relative Percent Difference |
| LCS(D) | Laboratory Control Spike (Duplicate) |
| MS(D) | Matrix Spike (Duplicate) |
| MB | Method Blank |

Qualifier Definitions

| | |
|-----|---|
| * | Recovery or RPD outside of control limits |
| B | Analyte was detected in the Lab Method Blank at a level above the LOQ |
| U | Undetected (Reported as ND or < DL) |
| J | Estimated Concentration. |
| E | Amount detected is greater than the Upper Calibration Limit |
| TIC | Tentatively Identified Compound |
| ND | Not Detected |
| P | RPD > 40% between results of dual columns |
| D | Spike or surrogate was diluted out in order to achieve a parameter result within instrument calibration range |

Samples requiring manual integrations for various congeners and/or standards are marked and dated by the analyst. A code definition is provided below:

| | |
|----|--|
| M1 | Mis-identified peak |
| M2 | Software did not integrate peak |
| M3 | Incorrect baseline construction (i.e. not all of peak included; two peaks integrated as one) |
| M4 | Pattern integration required (i.e. DRO, GRO, PCB, Toxaphene and Technical Chlordane) |
| M5 | Other - Explained in case narrative |

Note Results pages that include a value for "Solids (%)" have been adjusted for moisture content.

Sample Summary

| <u>Client Sample ID</u> | <u>Lab Sample ID</u> | <u>Collected</u> | <u>Received</u> | <u>Matrix</u> |
|-------------------------|----------------------|------------------|------------------|----------------|
| PFAS | 31900469001 | 03/20/2019 12:20 | 03/22/2019 10:04 | Drinking Water |



Detectable Results Summary

*** No Detectable Results ***

Parameter Cross Reference

SURROGATE

| <u>PARAMETER</u> | <u>CASNO</u> | <u>FULL NAME</u> |
|------------------|--------------|--|
| 13C2-PFHxA | 13CPFHXA | 13C2-Perfluoro-n-hexanoic Acid |
| 13C2-PFDA | 13CPFDA | 13C2-PerFluorodecanoic Acid |
| d5-NEtFOSAA | 1265205-97-7 | d5-N-ethyl-perfluoro-1-octanesulfonamidoacetic |

REGULAR

| <u>PARAMETER</u> | <u>CASNO</u> | <u>FULL NAME</u> |
|------------------|--------------|--|
| PFHxA | 307-24-4 | Perfluoro-n-hexanoic Acid |
| PFHpA | 375-85-9 | Perfluoro-n-heptanoic Acid |
| PFOA | 335-67-1 | Perfluoro-n-octanoic Acid |
| PFNA | 375-95-1 | Perfluoro-n-nonanoic Acid |
| PFDA | 335-76-2 | Perfluoro-n-decanoic Acid |
| PFuNA | 2058-94-8 | Perfluoro-n-undecanoic Acid |
| PFDaA | 307-55-1 | Perfluoro-n-dodecanoic Acid |
| PFTriA | 72629-94-8 | Perfluoro-n-tridecanoic Acid |
| PFTreA | 376-06-7 | Perfluoro-n-tetradecanoic Acid |
| PFBS | 375-73-5 | Perfluorobutanesulfonic Acid |
| PFHxS | 355-46-4 | Perfluorohexanesulfonic Acid |
| PFOS | 1763-23-1 | Perfluorooctanesulfonic Acid |
| NMeFOSAA | 2355-31-9 | N-methyl perfluoro-1-octanesulfoamidoacetic Acid |
| NetFOSAA | 2991-50-6 | N-ethyl perfluoro-1-octanesulfoamidoacetic |

Results of FCC PFAS

Client Sample ID: XXXXXXXXXX PFAS
 Client Project ID: 1191213
 Lab Sample ID: 31900469001-A
 Lab Project ID: 31900469

Collection Date: 03/20/2019 12:20
 Received Date: 03/22/2019 10:04
 Matrix: Drinking Water
 Solids (%):

Results by EPA 537 v1.1

| Parameter | Result | Qual | DL | LOQ/CL | Units | DF | Date Analyzed |
|-------------------|--------|------|-------|----------|-------|----|------------------|
| PFHxA | ND | U | 0.204 | 2.04 | ng/L | 1 | 03/29/2019 10:37 |
| PFHpA | ND | U | 0.204 | 2.04 | ng/L | 1 | 03/29/2019 10:37 |
| PFOA | ND | U | 0.204 | 2.04 | ng/L | 1 | 03/29/2019 10:37 |
| PFNA | ND | U | 0.204 | 2.04 | ng/L | 1 | 03/29/2019 10:37 |
| PFDA | ND | U | 0.204 | 2.04 | ng/L | 1 | 03/29/2019 10:37 |
| PFuNA | ND | U | 0.204 | 2.04 | ng/L | 1 | 03/29/2019 10:37 |
| PFDoA | ND | U | 0.204 | 2.04 | ng/L | 1 | 03/29/2019 10:37 |
| PFTriA | ND | U | 0.204 | 2.04 | ng/L | 1 | 03/29/2019 10:37 |
| PFTreA | ND | U | 0.204 | 2.04 | ng/L | 1 | 03/29/2019 10:37 |
| PFBS | ND | U | 0.204 | 2.04 | ng/L | 1 | 03/29/2019 10:37 |
| PFHxS | ND | U | 0.204 | 2.04 | ng/L | 1 | 03/29/2019 10:37 |
| PFOS | ND | U | 0.204 | 2.04 | ng/L | 1 | 03/29/2019 10:37 |
| NMeFOSAA | ND | U | 0.510 | 2.04 | ng/L | 1 | 03/29/2019 10:37 |
| NetFOSAA | ND | U | 0.510 | 2.04 | ng/L | 1 | 03/29/2019 10:37 |
| Surrogates | | | | | | | |
| 13C2-PFHxA | 112 | | | 70.0-130 | % | 1 | 03/29/2019 10:37 |
| 13C2-PFDA | 103 | | | 70.0-130 | % | 1 | 03/29/2019 10:37 |
| d5-NEtFOSAA | 95.2 | | | 70.0-130 | % | 1 | 03/29/2019 10:37 |

Batch Information

Analytical Batch: XLC1302
 Analytical Method: EPA 537 v1.1
 Instrument: TQS1
 Analyst: MC

Prep Batch: HXX2330
 Prep Method: EPA 537 v1.1 Prep
 Prep Date/Time: 03/28/2019 15:00
 Prep Initial Wt./Vol.: 245 mL
 Prep Extract Vol: 1 mL



Batch Summary

Analytical Method: EPA 537 v1.1

Prep Method: EPA 537 v1.1 Prep

Prep Batch: HXX2330

Prep Date: 03/28/2019 15:00

| <u>Client Sample ID</u> | <u>Lab Sample ID</u> | <u>Analysis Date</u> | <u>Analytical Batch</u> | <u>Instrument</u> | <u>Analyst</u> |
|-------------------------------|----------------------|----------------------|-------------------------|-------------------|----------------|
| MB for HBN 146514 [HXX/2330] | 226024 | 03/29/2019 09:35 | XLC1302 | TQS1 | MC |
| LCS for HBN 146514 [HXX/2330] | 226025 | 03/29/2019 10:06 | XLC1302 | TQS1 | MC |
| FCC PFAS(225920MS) | 226026 | 03/29/2019 11:09 | XLC1302 | TQS1 | MC |
| EWA-120-325-P(226013DUP) | 226027 | 03/29/2019 12:11 | XLC1302 | TQS1 | MC |
| FCC PFAS | 31900469001 | 03/29/2019 10:37 | XLC1302 | TQS1 | MC |

Method Blank

Blank ID: MB for HBN 146514 [HXX/2330]

Blank Lab ID: 226024

QC for Samples:

31900469001

Matrix: Water

Results by EPA 537 v1.1

| <u>Parameter</u> | <u>Result</u> | <u>Qual</u> | <u>DL</u> | <u>LOQ/CL</u> | <u>Units</u> | <u>DF</u> |
|-------------------|---------------|-------------|-----------|---------------|--------------|-----------|
| PFHxA | ND | U | 0.200 | 2.00 | ng/L | 1 |
| PFHpA | ND | U | 0.200 | 2.00 | ng/L | 1 |
| PFOA | ND | U | 0.200 | 2.00 | ng/L | 1 |
| PFNA | ND | U | 0.200 | 2.00 | ng/L | 1 |
| PFDA | ND | U | 0.200 | 2.00 | ng/L | 1 |
| PFuNA | ND | U | 0.200 | 2.00 | ng/L | 1 |
| PFDoA | ND | U | 0.200 | 2.00 | ng/L | 1 |
| PFTriA | ND | U | 0.200 | 2.00 | ng/L | 1 |
| PFTreA | ND | U | 0.200 | 2.00 | ng/L | 1 |
| PFBS | ND | U | 0.200 | 2.00 | ng/L | 1 |
| PFHxS | ND | U | 0.200 | 2.00 | ng/L | 1 |
| PFOS | ND | U | 0.200 | 2.00 | ng/L | 1 |
| NMeFOSAA | ND | U | 0.500 | 2.00 | ng/L | 1 |
| NetFOSAA | ND | U | 0.500 | 2.00 | ng/L | 1 |
| Surrogates | | | | | | |
| 13C2-PFHxA | 112 | | | 70.0-130 | % | 1 |
| 13C2-PFDA | 106 | | | 70.0-130 | % | 1 |
| d5-NEtFOSAA | 102 | | | 70.0-130 | % | 1 |

Batch Information

Analytical Batch: XLC1302

Analytical Method: EPA 537 v1.1

Instrument: TQS1

Analyst: MC

Prep Batch: HXX2330

Prep Method: EPA 537 v1.1 Prep

Prep Date/Time: 3/28/2019 3:00:59PM

Prep Initial Wt./Vol.: 250 mL

Prep Extract Vol: 1 mL

Blank Spike Summary

Blank Spike ID: LCS for HBN 146514 [HXX/2330]

Blank Spike Lab ID: 226025

Date Analyzed: 03/29/2019 10:06

Matrix: Water

QC for Samples: 31900469001

Results by EPA 537 v1.1

| Parameter | Blank Spike (ng/L) | | | CL |
|-------------------|--------------------|--------|---------|----------|
| | Spike | Result | Rec (%) | |
| PFHxA | 100 | 89.6 | 89.6 | 70.0-130 |
| PFHpA | 100 | 92.1 | 92.1 | 70.0-130 |
| PFOA | 100 | 86.0 | 86 | 70.0-130 |
| PFNA | 100 | 94.6 | 94.6 | 70.0-130 |
| PFDA | 100 | 91.5 | 91.5 | 70.0-130 |
| PFuNA | 100 | 93.7 | 93.7 | 70.0-130 |
| PFDoA | 100 | 87.9 | 87.9 | 70.0-130 |
| PFTriA | 100 | 92.6 | 92.6 | 70.0-130 |
| PFTreA | 100 | 86.0 | 86 | 70.0-130 |
| PFBS | 88.6 | 82.5 | 93.1 | 70.0-130 |
| PFHxS | 91.2 | 82.9 | 90.9 | 70.0-130 |
| PFOS | 92.6 | 87.6 | 94.6 | 70.0-130 |
| NMeFOSAA | 100 | 93.0 | 93 | 70.0-130 |
| NetFOSAA | 100 | 93.1 | 93.1 | 70.0-130 |
| Surrogates | | | | |
| 13C2-PFHxA | | | 109 | 70.0-130 |
| 13C2-PFDA | | | 106 | 70.0-130 |
| d5-NEtFOSAA | | | 101 | 70.0-130 |

Batch Information

Analytical Batch: **XLC1302**

Analytical Method: **EPA 537 v1.1**

Instrument: **TQS1**

Analyst: **MC**

Prep Batch: **HXX2330**

Prep Method: **EPA 537 v1.1 Prep**

Prep Date/Time: **03/28/2019 15:00**

Spike Init Wt./Vol.: **250 mL** Extract Vol: **1 mL**

Dupe Init Wt./Vol.: Extract Vol:

Matrix Spike Summary

Original Sample ID: 31900469001 (FCC PFAS)
MS Sample ID: 226026
MSD Sample ID:

QC for Samples: 31900469001

Analysis Date: 03/29/2019 10:37
Analysis Date: 03/29/2019 11:09
Analysis Date:
Matrix: Drinking Water

Results by EPA 537 v1.1

| Parameter | Sample | Matrix Spike (ng/L) | | | Spike Duplicate (ng/L) | | | CL | RPD (%) | RPD CL |
|-------------------|--------|---------------------|--------|---------|------------------------|--------|---------|----------|---------|--------|
| | | Spike | Result | Rec (%) | Spike | Result | Rec (%) | | | |
| PFHxA | ND | 102 | 93.1 | 91.3 | | | | 70.0-130 | | |
| PFHpA | ND | 102 | 93.7 | 91.8 | | | | 70.0-130 | | |
| PFOA | ND | 102 | 87.1 | 85.4 | | | | 70.0-130 | | |
| PFNA | ND | 102 | 102 | 99.8 | | | | 70.0-130 | | |
| PFDA | ND | 102 | 94.7 | 92.8 | | | | 70.0-130 | | |
| PFuNA | ND | 102 | 101 | 99.4 | | | | 70.0-130 | | |
| PFDaA | ND | 102 | 83.5 | 81.9 | | | | 70.0-130 | | |
| PFTriA | ND | 102 | 94.1 | 92.3 | | | | 70.0-130 | | |
| PFTreA | ND | 102 | 89.8 | 88 | | | | 70.0-130 | | |
| PFBS | ND | 90.4 | 87.7 | 97 | | | | 70.0-130 | | |
| PFHxS | ND | 93.1 | 88.9 | 95.6 | | | | 70.0-130 | | |
| PFOS | ND | 94.5 | 94.4 | 100 | | | | 70.0-130 | | |
| NMeFOSAA | ND | 102 | 98.1 | 96.1 | | | | 70.0-130 | | |
| NetFOSAA | ND | 102 | 92.4 | 90.6 | | | | 70.0-130 | | |
| Surrogates | | | | | | | | | | |
| 13C2-PFHxA | | | | 112 | | | | 70.0-130 | | |
| 13C2-PFDA | | | | 98.5 | | | | 70.0-130 | | |
| d5-NetFOSAA | | | | 93.4 | | | | 70.0-130 | | |

Batch Information

Analytical Batch: **XLC1302**
Analytical Method: **EPA 537 v1.1**
Instrument: **TQS1**
Analyst: **MC**

Prep Batch: **HXX2330**
Prep Method: **EPA 537 v1.1 Prep**
Prep Date/Time: **03/28/2019 15:00**
MS Init Wt./Vol.: **245 mL** Extract Vol.: **1 mL**
MSD Init Wt./Vol.: **Extract Vol.:**

SGS North America Inc.
CHAIN OF CUSTODY RECORD



Locations Nationwide

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www.us.sgs.com

[illegible]

[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

REVIEWED JKJ

Sample Receipt Checklist (SRC)

Work Order No.: **31900469**

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| Comments: | | |
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Date: 3/22/2019