

ANALYTICAL REPORT

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Laboratory Job ID: 320-59495-1

Client Project/Site: PFAS, Alaska Drinking Water

For:

Alaska Department of Env. Conservation
Division of Water
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Attn: Grant Lidren



Authorized for release by:
3/25/2020 11:09:31 AM

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Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Alaska Department of Env. Conservation
Project/Site: PFAS, Alaska Drinking Water

Job ID: 320-59495-1

Qualifiers

LCMS

Qualifier	Qualifier Description
E	Result exceeded calibration range.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Alaska Department of Env. Conservation
Project/Site: PFAS, Alaska Drinking Water

Job ID: 320-59495-1

Job ID: 320-59495-1

Laboratory: Eurofins TestAmerica, Sacramento

Narrative

Job Narrative 320-59495-1

Receipt

Thirty-two samples were received on 3/14/2020 9:20 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 13.2° C.

Receipt Exceptions

The following samples were received at the laboratory outside the required temperature criteria at a verified temperature of 13.2c. AN-01-DW (320-59495-1), AN-02-DW (320-59495-2), AN-03-DW (320-59495-3), AN-04-DW (320-59495-4), AN-05-DW (320-59495-5), AN-06-DW (320-59495-6), AN-07-DW (320-59495-7), AN-08-DW (320-59495-8), AN-09-DW (320-59495-9), AN-10-DW (320-59495-10), AN-11-DW (320-59495-11), AN-12-DW (320-59495-12), AN-13-DW (320-59495-13), AN-14-DW (320-59495-14), AN-15-DW (320-59495-15), AN-16-DW (320-59495-16), AN-17-DW (320-59495-17), AN-18-DW (320-59495-18), AN-19-DW (320-59495-19), AN-20-DW (320-59495-20), AN-21-DW (320-59495-21), AN-22-DW (320-59495-22), AN-23-DW (320-59495-23), AN-24-DW (320-59495-24), AN-25-DW (320-59495-25), AN-26-DW (320-59495-26), AN-27-DW (320-59495-27), AN-28-DW (320-59495-28), AN-29-DW (320-59495-29), AN-30-DW (320-59495-30), AN-31-DW (320-59495-31) and AN-32-DW (320-59495-32). There was a thick layer of bubble wrap between the samples and the ice. The samples were at the bottom of the cooler and the ice was sitting on top of the bubble wrap. There was not temperature blank provided.

LCMS

Method 537.1 DW: The concentration of several analytes associated with the laboratory control sample/laboratory control sample duplicate (LCS/LCSD) samples are flagged with an E flag: (LCS 320-365571/2-A) and (LCSD 320-365571/3-A). The Level 7 standard was not used in the initial calibration due to internal standard issues. As a result, these samples were spiked at the upper limit of the calibration range.

Method 537.1 DW: Elevated reporting limits are provided for the following samples due to insufficient sample provided for preparation: AN-01-DW (320-59495-1), -11-DW (320-59495-11), AN-12-DW (320-59495-12), AN-20-DW (320-59495-20), and AN-28-DW (320-59495-28).

Method 537.1 DW: The following sample AN-20-DW (320-59495-20) in preparation batch 320-365491 was observed to be yellow prior to extraction.

Method 537.1 DW: Prior to extraction the following samples were light yellow in color. AN-04-DW (320-59495-4), AN-07-DW (320-59495-7), AN-08-DW (320-59495-8), and AN-21-DW (320-59495-21)

Method 537.1 DW: The following sample was yellow following extraction. AN-04-DW (320-59495-4)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Alaska Department of Env. Conservation
Project/Site: PFAS, Alaska Drinking Water

Job ID: 320-59495-1

Client Sample ID: AN-01-DW

Lab Sample ID: 320-59495-1

No Detections.

Client Sample ID: AN-02-DW

Lab Sample ID: 320-59495-2

No Detections.

Client Sample ID: AN-03-DW

Lab Sample ID: 320-59495-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid (PFBS)	0.0011	J	0.0019	0.00048	ug/L	1		537.1 DW	Total/NA

Client Sample ID: AN-04-DW

Lab Sample ID: 320-59495-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid (PFBS)	0.0012	J	0.0019	0.00047	ug/L	1		537.1 DW	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.00079	J	0.0019	0.00047	ug/L	1		537.1 DW	Total/NA

Client Sample ID: AN-05-DW

Lab Sample ID: 320-59495-5

No Detections.

Client Sample ID: AN-06-DW

Lab Sample ID: 320-59495-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	0.00050	J	0.0020	0.00050	ug/L	1		537.1 DW	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.00053	J	0.0020	0.00050	ug/L	1		537.1 DW	Total/NA

Client Sample ID: AN-07-DW

Lab Sample ID: 320-59495-7

No Detections.

Client Sample ID: AN-08-DW

Lab Sample ID: 320-59495-8

No Detections.

Client Sample ID: AN-09-DW

Lab Sample ID: 320-59495-9

No Detections.

Client Sample ID: AN-10-DW

Lab Sample ID: 320-59495-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid (PFBS)	0.0014	J	0.0020	0.00049	ug/L	1		537.1 DW	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.0031		0.0020	0.00049	ug/L	1		537.1 DW	Total/NA

Client Sample ID: AN-11-DW

Lab Sample ID: 320-59495-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	0.0012	J	0.0020	0.00051	ug/L	1		537.1 DW	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.0019	J	0.0020	0.00051	ug/L	1		537.1 DW	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.0039		0.0020	0.00051	ug/L	1		537.1 DW	Total/NA

Client Sample ID: AN-12-DW

Lab Sample ID: 320-59495-12

No Detections.

Client Sample ID: AN-13-DW

Lab Sample ID: 320-59495-13

No Detections.

This Detection Summary does not include radiochemical test results.

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Detection Summary

Client: Alaska Department of Env. Conservation
Project/Site: PFAS, Alaska Drinking Water

Job ID: 320-59495-1

Client Sample ID: AN-14-DW

Lab Sample ID: 320-59495-14

No Detections.

Client Sample ID: AN-15-DW

Lab Sample ID: 320-59495-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	0.0016	J	0.0020	0.00049	ug/L	1		537.1 DW	Total/NA

Client Sample ID: AN-16-DW

Lab Sample ID: 320-59495-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid (PFBS)	0.0021		0.0020	0.00049	ug/L	1		537.1 DW	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.0070		0.0020	0.00049	ug/L	1		537.1 DW	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.0022		0.0020	0.00049	ug/L	1		537.1 DW	Total/NA

Client Sample ID: AN-17-DW

Lab Sample ID: 320-59495-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid (PFBS)	0.0018	J	0.0020	0.00049	ug/L	1		537.1 DW	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.0022		0.0020	0.00049	ug/L	1		537.1 DW	Total/NA

Client Sample ID: AN-18-DW

Lab Sample ID: 320-59495-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid (PFBS)	0.0016	J	0.0019	0.00048	ug/L	1		537.1 DW	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.0044		0.0019	0.00048	ug/L	1		537.1 DW	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.0010	J	0.0019	0.00048	ug/L	1		537.1 DW	Total/NA

Client Sample ID: AN-19-DW

Lab Sample ID: 320-59495-19

No Detections.

Client Sample ID: AN-20-DW

Lab Sample ID: 320-59495-20

No Detections.

Client Sample ID: AN-21-DW

Lab Sample ID: 320-59495-21

No Detections.

Client Sample ID: AN-22-DW

Lab Sample ID: 320-59495-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid (PFBS)	0.0018	J	0.0019	0.00048	ug/L	1		537.1 DW	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.0033		0.0019	0.00048	ug/L	1		537.1 DW	Total/NA

Client Sample ID: AN-23-DW

Lab Sample ID: 320-59495-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	0.0012	J	0.0019	0.00049	ug/L	1		537.1 DW	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.0010	J	0.0019	0.00049	ug/L	1		537.1 DW	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.0055		0.0019	0.00049	ug/L	1		537.1 DW	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.00058	J	0.0019	0.00049	ug/L	1		537.1 DW	Total/NA

Client Sample ID: AN-24-DW

Lab Sample ID: 320-59495-24

No Detections.

This Detection Summary does not include radiochemical test results.

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Detection Summary

Client: Alaska Department of Env. Conservation
Project/Site: PFAS, Alaska Drinking Water

Job ID: 320-59495-1

Client Sample ID: AN-25-DW

Lab Sample ID: 320-59495-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanesulfonic acid (PFOS)	0.00051	J	0.0020	0.00050	ug/L	1		537.1 DW	Total/NA

Client Sample ID: AN-26-DW

Lab Sample ID: 320-59495-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	0.00056	J	0.0018	0.00046	ug/L	1		537.1 DW	Total/NA

Client Sample ID: AN-27-DW

Lab Sample ID: 320-59495-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid (PFBS)	0.0014	J	0.0020	0.00049	ug/L	1		537.1 DW	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.0017	J	0.0020	0.00049	ug/L	1		537.1 DW	Total/NA

Client Sample ID: AN-28-DW

Lab Sample ID: 320-59495-28

No Detections.

Client Sample ID: AN-29-DW

Lab Sample ID: 320-59495-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	0.00056	J	0.0019	0.00048	ug/L	1		537.1 DW	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.0018	J	0.0019	0.00048	ug/L	1		537.1 DW	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.0042		0.0019	0.00048	ug/L	1		537.1 DW	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.0011	J	0.0019	0.00048	ug/L	1		537.1 DW	Total/NA

Client Sample ID: AN-30-DW

Lab Sample ID: 320-59495-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	0.00088	J	0.0019	0.00047	ug/L	1		537.1 DW	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.0020		0.0019	0.00047	ug/L	1		537.1 DW	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.0037		0.0019	0.00047	ug/L	1		537.1 DW	Total/NA

Client Sample ID: AN-31-DW

Lab Sample ID: 320-59495-31

No Detections.

Client Sample ID: AN-32-DW

Lab Sample ID: 320-59495-32

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Sacramento

Client Sample Results

Client: Alaska Department of Env. Conservation
Project/Site: PFAS, Alaska Drinking Water

Job ID: 320-59495-1

Client Sample ID: AN-01-DW

Date Collected: 03/11/20 12:10

Date Received: 03/14/20 09:20

Lab Sample ID: 320-59495-1

Matrix: Water

Method: 537.1 DW - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	ND		0.0020	0.00050	ug/L		03/18/20 05:03	03/22/20 09:16	1
Perfluoroheptanoic acid (PFHpA)	ND		0.0020	0.00050	ug/L		03/18/20 05:03	03/22/20 09:16	1
Perfluorooctanoic acid (PFOA)	ND		0.0020	0.00050	ug/L		03/18/20 05:03	03/22/20 09:16	1
Perfluorononanoic acid (PFNA)	ND		0.0020	0.00050	ug/L		03/18/20 05:03	03/22/20 09:16	1
Perfluorodecanoic acid (PFDA)	ND		0.0020	0.00050	ug/L		03/18/20 05:03	03/22/20 09:16	1
Perfluoroundecanoic acid (PFUnA)	ND		0.0020	0.00050	ug/L		03/18/20 05:03	03/22/20 09:16	1
Perfluorododecanoic acid (PFDoA)	ND		0.0020	0.00050	ug/L		03/18/20 05:03	03/22/20 09:16	1
Perfluorotridecanoic acid (PFTriA)	ND		0.0020	0.00050	ug/L		03/18/20 05:03	03/22/20 09:16	1
Perfluorotetradecanoic acid (PFTeA)	ND		0.0020	0.00050	ug/L		03/18/20 05:03	03/22/20 09:16	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.0020	0.00050	ug/L		03/18/20 05:03	03/22/20 09:16	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.0020	0.00050	ug/L		03/18/20 05:03	03/22/20 09:16	1
Perfluorooctanesulfonic acid (PFOS)	ND		0.0020	0.00050	ug/L		03/18/20 05:03	03/22/20 09:16	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.0020	0.00050	ug/L		03/18/20 05:03	03/22/20 09:16	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.0020	0.00050	ug/L		03/18/20 05:03	03/22/20 09:16	1
F-53B Major	ND		0.0020	0.00050	ug/L		03/18/20 05:03	03/22/20 09:16	1
F-53B Minor	ND		0.0020	0.00050	ug/L		03/18/20 05:03	03/22/20 09:16	1
HFPO-DA (GenX)	ND		0.0020	0.00050	ug/L		03/18/20 05:03	03/22/20 09:16	1
DONA	ND		0.0020	0.00050	ug/L		03/18/20 05:03	03/22/20 09:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	101		70 - 130	03/18/20 05:03	03/22/20 09:16	1
13C2 PFDA	100		70 - 130	03/18/20 05:03	03/22/20 09:16	1
d5-NEtFOSAA	95		70 - 130	03/18/20 05:03	03/22/20 09:16	1
13C3 HFPO-DA	101		70 - 130	03/18/20 05:03	03/22/20 09:16	1

Client Sample ID: AN-02-DW

Date Collected: 03/11/20 12:50

Date Received: 03/14/20 09:20

Lab Sample ID: 320-59495-2

Matrix: Water

Method: 537.1 DW - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	ND		0.0019	0.00048	ug/L		03/18/20 05:03	03/22/20 09:24	1
Perfluoroheptanoic acid (PFHpA)	ND		0.0019	0.00048	ug/L		03/18/20 05:03	03/22/20 09:24	1
Perfluorooctanoic acid (PFOA)	ND		0.0019	0.00048	ug/L		03/18/20 05:03	03/22/20 09:24	1
Perfluorononanoic acid (PFNA)	ND		0.0019	0.00048	ug/L		03/18/20 05:03	03/22/20 09:24	1
Perfluorodecanoic acid (PFDA)	ND		0.0019	0.00048	ug/L		03/18/20 05:03	03/22/20 09:24	1
Perfluoroundecanoic acid (PFUnA)	ND		0.0019	0.00048	ug/L		03/18/20 05:03	03/22/20 09:24	1
Perfluorododecanoic acid (PFDoA)	ND		0.0019	0.00048	ug/L		03/18/20 05:03	03/22/20 09:24	1
Perfluorotridecanoic acid (PFTriA)	ND		0.0019	0.00048	ug/L		03/18/20 05:03	03/22/20 09:24	1
Perfluorotetradecanoic acid (PFTeA)	ND		0.0019	0.00048	ug/L		03/18/20 05:03	03/22/20 09:24	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.0019	0.00048	ug/L		03/18/20 05:03	03/22/20 09:24	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.0019	0.00048	ug/L		03/18/20 05:03	03/22/20 09:24	1
Perfluorooctanesulfonic acid (PFOS)	ND		0.0019	0.00048	ug/L		03/18/20 05:03	03/22/20 09:24	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.0019	0.00048	ug/L		03/18/20 05:03	03/22/20 09:24	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.0019	0.00048	ug/L		03/18/20 05:03	03/22/20 09:24	1
F-53B Major	ND		0.0019	0.00048	ug/L		03/18/20 05:03	03/22/20 09:24	1
F-53B Minor	ND		0.0019	0.00048	ug/L		03/18/20 05:03	03/22/20 09:24	1

Eurofins TestAmerica, Sacramento

Client Sample Results

Client: Alaska Department of Env. Conservation
Project/Site: PFAS, Alaska Drinking Water

Job ID: 320-59495-1

Client Sample ID: AN-02-DW

Date Collected: 03/11/20 12:50

Date Received: 03/14/20 09:20

Lab Sample ID: 320-59495-2

Matrix: Water

Method: 537.1 DW - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA (GenX)	ND		0.0019	0.00048	ug/L		03/18/20 05:03	03/22/20 09:24	1
DONA	ND		0.0019	0.00048	ug/L		03/18/20 05:03	03/22/20 09:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFHxA	97		70 - 130				03/18/20 05:03	03/22/20 09:24	1
13C2 PFDA	104		70 - 130				03/18/20 05:03	03/22/20 09:24	1
d5-NEtFOSAA	102		70 - 130				03/18/20 05:03	03/22/20 09:24	1
13C3 HFPO-DA	98		70 - 130				03/18/20 05:03	03/22/20 09:24	1

Client Sample ID: AN-03-DW

Date Collected: 03/11/20 13:12

Date Received: 03/14/20 09:20

Lab Sample ID: 320-59495-3

Matrix: Water

Method: 537.1 DW - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	ND		0.0019	0.00048	ug/L		03/18/20 05:03	03/22/20 09:31	1
Perfluoroheptanoic acid (PFHpA)	ND		0.0019	0.00048	ug/L		03/18/20 05:03	03/22/20 09:31	1
Perfluorooctanoic acid (PFOA)	ND		0.0019	0.00048	ug/L		03/18/20 05:03	03/22/20 09:31	1
Perfluorononanoic acid (PFNA)	ND		0.0019	0.00048	ug/L		03/18/20 05:03	03/22/20 09:31	1
Perfluorodecanoic acid (PFDA)	ND		0.0019	0.00048	ug/L		03/18/20 05:03	03/22/20 09:31	1
Perfluoroundecanoic acid (PFUnA)	ND		0.0019	0.00048	ug/L		03/18/20 05:03	03/22/20 09:31	1
Perfluorododecanoic acid (PFDoA)	ND		0.0019	0.00048	ug/L		03/18/20 05:03	03/22/20 09:31	1
Perfluorotridecanoic acid (PFTriA)	ND		0.0019	0.00048	ug/L		03/18/20 05:03	03/22/20 09:31	1
Perfluorotetradecanoic acid (PFTeA)	ND		0.0019	0.00048	ug/L		03/18/20 05:03	03/22/20 09:31	1
Perfluorobutanesulfonic acid (PFBS)	0.0011	J	0.0019	0.00048	ug/L		03/18/20 05:03	03/22/20 09:31	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.0019	0.00048	ug/L		03/18/20 05:03	03/22/20 09:31	1
Perfluorooctanesulfonic acid (PFOS)	ND		0.0019	0.00048	ug/L		03/18/20 05:03	03/22/20 09:31	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.0019	0.00048	ug/L		03/18/20 05:03	03/22/20 09:31	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.0019	0.00048	ug/L		03/18/20 05:03	03/22/20 09:31	1
F-53B Major	ND		0.0019	0.00048	ug/L		03/18/20 05:03	03/22/20 09:31	1
F-53B Minor	ND		0.0019	0.00048	ug/L		03/18/20 05:03	03/22/20 09:31	1
HFPO-DA (GenX)	ND		0.0019	0.00048	ug/L		03/18/20 05:03	03/22/20 09:31	1
DONA	ND		0.0019	0.00048	ug/L		03/18/20 05:03	03/22/20 09:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFHxA	100		70 - 130				03/18/20 05:03	03/22/20 09:31	1
13C2 PFDA	100		70 - 130				03/18/20 05:03	03/22/20 09:31	1
d5-NEtFOSAA	98		70 - 130				03/18/20 05:03	03/22/20 09:31	1
13C3 HFPO-DA	98		70 - 130				03/18/20 05:03	03/22/20 09:31	1

Client Sample ID: AN-04-DW

Date Collected: 03/11/20 13:40

Date Received: 03/14/20 09:20

Lab Sample ID: 320-59495-4

Matrix: Water

Method: 537.1 DW - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	ND		0.0019	0.00047	ug/L		03/18/20 05:03	03/22/20 09:39	1
Perfluoroheptanoic acid (PFHpA)	ND		0.0019	0.00047	ug/L		03/18/20 05:03	03/22/20 09:39	1
Perfluorooctanoic acid (PFOA)	ND		0.0019	0.00047	ug/L		03/18/20 05:03	03/22/20 09:39	1

Eurofins TestAmerica, Sacramento

Client Sample Results

Client: Alaska Department of Env. Conservation
Project/Site: PFAS, Alaska Drinking Water

Job ID: 320-59495-1

Client Sample ID: AN-04-DW

Lab Sample ID: 320-59495-4

Date Collected: 03/11/20 13:40

Matrix: Water

Date Received: 03/14/20 09:20

Method: 537.1 DW - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorononanoic acid (PFNA)	ND		0.0019	0.00047	ug/L		03/18/20 05:03	03/22/20 09:39	1
Perfluorodecanoic acid (PFDA)	ND		0.0019	0.00047	ug/L		03/18/20 05:03	03/22/20 09:39	1
Perfluoroundecanoic acid (PFUnA)	ND		0.0019	0.00047	ug/L		03/18/20 05:03	03/22/20 09:39	1
Perfluorododecanoic acid (PFDoA)	ND		0.0019	0.00047	ug/L		03/18/20 05:03	03/22/20 09:39	1
Perfluorotridecanoic acid (PFTriA)	ND		0.0019	0.00047	ug/L		03/18/20 05:03	03/22/20 09:39	1
Perfluorotetradecanoic acid (PFTeA)	ND		0.0019	0.00047	ug/L		03/18/20 05:03	03/22/20 09:39	1
Perfluorobutanesulfonic acid (PFBS)	0.0012	J	0.0019	0.00047	ug/L		03/18/20 05:03	03/22/20 09:39	1
Perfluorohexanesulfonic acid (PFHxS)	0.00079	J	0.0019	0.00047	ug/L		03/18/20 05:03	03/22/20 09:39	1
Perfluorooctanesulfonic acid (PFOS)	ND		0.0019	0.00047	ug/L		03/18/20 05:03	03/22/20 09:39	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.0019	0.00047	ug/L		03/18/20 05:03	03/22/20 09:39	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.0019	0.00047	ug/L		03/18/20 05:03	03/22/20 09:39	1
F-53B Major	ND		0.0019	0.00047	ug/L		03/18/20 05:03	03/22/20 09:39	1
F-53B Minor	ND		0.0019	0.00047	ug/L		03/18/20 05:03	03/22/20 09:39	1
HFPO-DA (GenX)	ND		0.0019	0.00047	ug/L		03/18/20 05:03	03/22/20 09:39	1
DONA	ND		0.0019	0.00047	ug/L		03/18/20 05:03	03/22/20 09:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFHxA	101		70 - 130				03/18/20 05:03	03/22/20 09:39	1
13C2 PFDA	101		70 - 130				03/18/20 05:03	03/22/20 09:39	1
d5-NEtFOSAA	87		70 - 130				03/18/20 05:03	03/22/20 09:39	1
13C3 HFPO-DA	99		70 - 130				03/18/20 05:03	03/22/20 09:39	1

Client Sample ID: AN-05-DW

Lab Sample ID: 320-59495-5

Date Collected: 03/11/20 14:12

Matrix: Water

Date Received: 03/14/20 09:20

Method: 537.1 DW - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	ND		0.0019	0.00049	ug/L		03/18/20 05:03	03/22/20 09:47	1
Perfluoroheptanoic acid (PFHpA)	ND		0.0019	0.00049	ug/L		03/18/20 05:03	03/22/20 09:47	1
Perfluorooctanoic acid (PFOA)	ND		0.0019	0.00049	ug/L		03/18/20 05:03	03/22/20 09:47	1
Perfluorononanoic acid (PFNA)	ND		0.0019	0.00049	ug/L		03/18/20 05:03	03/22/20 09:47	1
Perfluorodecanoic acid (PFDA)	ND		0.0019	0.00049	ug/L		03/18/20 05:03	03/22/20 09:47	1
Perfluoroundecanoic acid (PFUnA)	ND		0.0019	0.00049	ug/L		03/18/20 05:03	03/22/20 09:47	1
Perfluorododecanoic acid (PFDoA)	ND		0.0019	0.00049	ug/L		03/18/20 05:03	03/22/20 09:47	1
Perfluorotridecanoic acid (PFTriA)	ND		0.0019	0.00049	ug/L		03/18/20 05:03	03/22/20 09:47	1
Perfluorotetradecanoic acid (PFTeA)	ND		0.0019	0.00049	ug/L		03/18/20 05:03	03/22/20 09:47	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.0019	0.00049	ug/L		03/18/20 05:03	03/22/20 09:47	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.0019	0.00049	ug/L		03/18/20 05:03	03/22/20 09:47	1
Perfluorooctanesulfonic acid (PFOS)	ND		0.0019	0.00049	ug/L		03/18/20 05:03	03/22/20 09:47	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.0019	0.00049	ug/L		03/18/20 05:03	03/22/20 09:47	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.0019	0.00049	ug/L		03/18/20 05:03	03/22/20 09:47	1
F-53B Major	ND		0.0019	0.00049	ug/L		03/18/20 05:03	03/22/20 09:47	1
F-53B Minor	ND		0.0019	0.00049	ug/L		03/18/20 05:03	03/22/20 09:47	1
HFPO-DA (GenX)	ND		0.0019	0.00049	ug/L		03/18/20 05:03	03/22/20 09:47	1
DONA	ND		0.0019	0.00049	ug/L		03/18/20 05:03	03/22/20 09:47	1

Eurofins TestAmerica, Sacramento

Client Sample Results

Client: Alaska Department of Env. Conservation
Project/Site: PFAS, Alaska Drinking Water

Job ID: 320-59495-1

Client Sample ID: AN-05-DW

Date Collected: 03/11/20 14:12

Date Received: 03/14/20 09:20

Lab Sample ID: 320-59495-5

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	106		70 - 130	03/18/20 05:03	03/22/20 09:47	1
13C2 PFDA	113		70 - 130	03/18/20 05:03	03/22/20 09:47	1
d5-NEtFOSAA	100		70 - 130	03/18/20 05:03	03/22/20 09:47	1
13C3 HFPO-DA	104		70 - 130	03/18/20 05:03	03/22/20 09:47	1

Client Sample ID: AN-06-DW

Date Collected: 03/11/20 14:39

Date Received: 03/14/20 09:20

Lab Sample ID: 320-59495-6

Matrix: Water

Method: 537.1 DW - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	0.00050	J	0.0020	0.00050	ug/L		03/18/20 05:03	03/22/20 09:55	1
Perfluoroheptanoic acid (PFHpA)	ND		0.0020	0.00050	ug/L		03/18/20 05:03	03/22/20 09:55	1
Perfluorooctanoic acid (PFOA)	ND		0.0020	0.00050	ug/L		03/18/20 05:03	03/22/20 09:55	1
Perfluorononanoic acid (PFNA)	ND		0.0020	0.00050	ug/L		03/18/20 05:03	03/22/20 09:55	1
Perfluorodecanoic acid (PFDA)	ND		0.0020	0.00050	ug/L		03/18/20 05:03	03/22/20 09:55	1
Perfluoroundecanoic acid (PFUnA)	ND		0.0020	0.00050	ug/L		03/18/20 05:03	03/22/20 09:55	1
Perfluorododecanoic acid (PFDoA)	ND		0.0020	0.00050	ug/L		03/18/20 05:03	03/22/20 09:55	1
Perfluorotridecanoic acid (PFTriA)	ND		0.0020	0.00050	ug/L		03/18/20 05:03	03/22/20 09:55	1
Perfluorotetradecanoic acid (PFTeA)	ND		0.0020	0.00050	ug/L		03/18/20 05:03	03/22/20 09:55	1
Perfluorobutanesulfonic acid (PFBS)	0.00053	J	0.0020	0.00050	ug/L		03/18/20 05:03	03/22/20 09:55	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.0020	0.00050	ug/L		03/18/20 05:03	03/22/20 09:55	1
Perfluorooctanesulfonic acid (PFOS)	ND		0.0020	0.00050	ug/L		03/18/20 05:03	03/22/20 09:55	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.0020	0.00050	ug/L		03/18/20 05:03	03/22/20 09:55	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.0020	0.00050	ug/L		03/18/20 05:03	03/22/20 09:55	1
F-53B Major	ND		0.0020	0.00050	ug/L		03/18/20 05:03	03/22/20 09:55	1
F-53B Minor	ND		0.0020	0.00050	ug/L		03/18/20 05:03	03/22/20 09:55	1
HFPO-DA (GenX)	ND		0.0020	0.00050	ug/L		03/18/20 05:03	03/22/20 09:55	1
DONA	ND		0.0020	0.00050	ug/L		03/18/20 05:03	03/22/20 09:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFHxA	107		70 - 130				03/18/20 05:03	03/22/20 09:55	1
13C2 PFDA	103		70 - 130				03/18/20 05:03	03/22/20 09:55	1
d5-NEtFOSAA	102		70 - 130				03/18/20 05:03	03/22/20 09:55	1
13C3 HFPO-DA	105		70 - 130				03/18/20 05:03	03/22/20 09:55	1

Client Sample ID: AN-07-DW

Date Collected: 03/11/20 15:03

Date Received: 03/14/20 09:20

Lab Sample ID: 320-59495-7

Matrix: Water

Method: 537.1 DW - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	ND		0.0020	0.00049	ug/L		03/18/20 05:03	03/22/20 10:02	1
Perfluoroheptanoic acid (PFHpA)	ND		0.0020	0.00049	ug/L		03/18/20 05:03	03/22/20 10:02	1
Perfluorooctanoic acid (PFOA)	ND		0.0020	0.00049	ug/L		03/18/20 05:03	03/22/20 10:02	1
Perfluorononanoic acid (PFNA)	ND		0.0020	0.00049	ug/L		03/18/20 05:03	03/22/20 10:02	1
Perfluorodecanoic acid (PFDA)	ND		0.0020	0.00049	ug/L		03/18/20 05:03	03/22/20 10:02	1
Perfluoroundecanoic acid (PFUnA)	ND		0.0020	0.00049	ug/L		03/18/20 05:03	03/22/20 10:02	1
Perfluorododecanoic acid (PFDoA)	ND		0.0020	0.00049	ug/L		03/18/20 05:03	03/22/20 10:02	1

Eurofins TestAmerica, Sacramento

Client Sample Results

Client: Alaska Department of Env. Conservation
Project/Site: PFAS, Alaska Drinking Water

Job ID: 320-59495-1

Client Sample ID: AN-07-DW

Date Collected: 03/11/20 15:03

Date Received: 03/14/20 09:20

Lab Sample ID: 320-59495-7

Matrix: Water

Method: 537.1 DW - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorotridecanoic acid (PFTriA)	ND		0.0020	0.00049	ug/L		03/18/20 05:03	03/22/20 10:02	1
Perfluorotetradecanoic acid (PFTeA)	ND		0.0020	0.00049	ug/L		03/18/20 05:03	03/22/20 10:02	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.0020	0.00049	ug/L		03/18/20 05:03	03/22/20 10:02	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.0020	0.00049	ug/L		03/18/20 05:03	03/22/20 10:02	1
Perfluorooctanesulfonic acid (PFOS)	ND		0.0020	0.00049	ug/L		03/18/20 05:03	03/22/20 10:02	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.0020	0.00049	ug/L		03/18/20 05:03	03/22/20 10:02	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.0020	0.00049	ug/L		03/18/20 05:03	03/22/20 10:02	1
F-53B Major	ND		0.0020	0.00049	ug/L		03/18/20 05:03	03/22/20 10:02	1
F-53B Minor	ND		0.0020	0.00049	ug/L		03/18/20 05:03	03/22/20 10:02	1
HFPO-DA (GenX)	ND		0.0020	0.00049	ug/L		03/18/20 05:03	03/22/20 10:02	1
DONA	ND		0.0020	0.00049	ug/L		03/18/20 05:03	03/22/20 10:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFHxA	101		70 - 130				03/18/20 05:03	03/22/20 10:02	1
13C2 PFDA	98		70 - 130				03/18/20 05:03	03/22/20 10:02	1
d5-NEtFOSAA	94		70 - 130				03/18/20 05:03	03/22/20 10:02	1
13C3 HFPO-DA	105		70 - 130				03/18/20 05:03	03/22/20 10:02	1

Client Sample ID: AN-08-DW

Date Collected: 03/11/20 15:03

Date Received: 03/14/20 09:20

Lab Sample ID: 320-59495-8

Matrix: Water

Method: 537.1 DW - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	ND		0.0019	0.00048	ug/L		03/18/20 05:03	03/22/20 10:48	1
Perfluoroheptanoic acid (PFHpA)	ND		0.0019	0.00048	ug/L		03/18/20 05:03	03/22/20 10:48	1
Perfluorooctanoic acid (PFOA)	ND		0.0019	0.00048	ug/L		03/18/20 05:03	03/22/20 10:48	1
Perfluorononanoic acid (PFNA)	ND		0.0019	0.00048	ug/L		03/18/20 05:03	03/22/20 10:48	1
Perfluorodecanoic acid (PFDA)	ND		0.0019	0.00048	ug/L		03/18/20 05:03	03/22/20 10:48	1
Perfluoroundecanoic acid (PFUnA)	ND		0.0019	0.00048	ug/L		03/18/20 05:03	03/22/20 10:48	1
Perfluorododecanoic acid (PFDoA)	ND		0.0019	0.00048	ug/L		03/18/20 05:03	03/22/20 10:48	1
Perfluorotridecanoic acid (PFTriA)	ND		0.0019	0.00048	ug/L		03/18/20 05:03	03/22/20 10:48	1
Perfluorotetradecanoic acid (PFTeA)	ND		0.0019	0.00048	ug/L		03/18/20 05:03	03/22/20 10:48	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.0019	0.00048	ug/L		03/18/20 05:03	03/22/20 10:48	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.0019	0.00048	ug/L		03/18/20 05:03	03/22/20 10:48	1
Perfluorooctanesulfonic acid (PFOS)	ND		0.0019	0.00048	ug/L		03/18/20 05:03	03/22/20 10:48	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.0019	0.00048	ug/L		03/18/20 05:03	03/22/20 10:48	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.0019	0.00048	ug/L		03/18/20 05:03	03/22/20 10:48	1
F-53B Major	ND		0.0019	0.00048	ug/L		03/18/20 05:03	03/22/20 10:48	1
F-53B Minor	ND		0.0019	0.00048	ug/L		03/18/20 05:03	03/22/20 10:48	1
HFPO-DA (GenX)	ND		0.0019	0.00048	ug/L		03/18/20 05:03	03/22/20 10:48	1
DONA	ND		0.0019	0.00048	ug/L		03/18/20 05:03	03/22/20 10:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFHxA	99		70 - 130				03/18/20 05:03	03/22/20 10:48	1
13C2 PFDA	102		70 - 130				03/18/20 05:03	03/22/20 10:48	1
d5-NEtFOSAA	89		70 - 130				03/18/20 05:03	03/22/20 10:48	1

Eurofins TestAmerica, Sacramento

Client Sample Results

Client: Alaska Department of Env. Conservation
Project/Site: PFAS, Alaska Drinking Water

Job ID: 320-59495-1

Client Sample ID: AN-08-DW

Date Collected: 03/11/20 15:03

Date Received: 03/14/20 09:20

Lab Sample ID: 320-59495-8

Matrix: Water

Method: 537.1 DW - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	97		70 - 130	03/18/20 05:03	03/22/20 10:48	1

Client Sample ID: AN-09-DW

Date Collected: 03/11/20 15:21

Date Received: 03/14/20 09:20

Lab Sample ID: 320-59495-9

Matrix: Water

Method: 537.1 DW - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	ND		0.0019	0.00049	ug/L		03/18/20 05:03	03/22/20 10:56	1
Perfluoroheptanoic acid (PFHpA)	ND		0.0019	0.00049	ug/L		03/18/20 05:03	03/22/20 10:56	1
Perfluorooctanoic acid (PFOA)	ND		0.0019	0.00049	ug/L		03/18/20 05:03	03/22/20 10:56	1
Perfluorononanoic acid (PFNA)	ND		0.0019	0.00049	ug/L		03/18/20 05:03	03/22/20 10:56	1
Perfluorodecanoic acid (PFDA)	ND		0.0019	0.00049	ug/L		03/18/20 05:03	03/22/20 10:56	1
Perfluoroundecanoic acid (PFUnA)	ND		0.0019	0.00049	ug/L		03/18/20 05:03	03/22/20 10:56	1
Perfluorododecanoic acid (PFDoA)	ND		0.0019	0.00049	ug/L		03/18/20 05:03	03/22/20 10:56	1
Perfluorotridecanoic acid (PFTriA)	ND		0.0019	0.00049	ug/L		03/18/20 05:03	03/22/20 10:56	1
Perfluorotetradecanoic acid (PFTeA)	ND		0.0019	0.00049	ug/L		03/18/20 05:03	03/22/20 10:56	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.0019	0.00049	ug/L		03/18/20 05:03	03/22/20 10:56	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.0019	0.00049	ug/L		03/18/20 05:03	03/22/20 10:56	1
Perfluorooctanesulfonic acid (PFOS)	ND		0.0019	0.00049	ug/L		03/18/20 05:03	03/22/20 10:56	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.0019	0.00049	ug/L		03/18/20 05:03	03/22/20 10:56	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.0019	0.00049	ug/L		03/18/20 05:03	03/22/20 10:56	1
F-53B Major	ND		0.0019	0.00049	ug/L		03/18/20 05:03	03/22/20 10:56	1
F-53B Minor	ND		0.0019	0.00049	ug/L		03/18/20 05:03	03/22/20 10:56	1
HFPO-DA (GenX)	ND		0.0019	0.00049	ug/L		03/18/20 05:03	03/22/20 10:56	1
DONA	ND		0.0019	0.00049	ug/L		03/18/20 05:03	03/22/20 10:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	108		70 - 130	03/18/20 05:03	03/22/20 10:56	1
13C2 PFDA	107		70 - 130	03/18/20 05:03	03/22/20 10:56	1
d5-NEtFOSAA	107		70 - 130	03/18/20 05:03	03/22/20 10:56	1
13C3 HFPO-DA	106		70 - 130	03/18/20 05:03	03/22/20 10:56	1

Client Sample ID: AN-10-DW

Date Collected: 03/11/20 15:55

Date Received: 03/14/20 09:20

Lab Sample ID: 320-59495-10

Matrix: Water

Method: 537.1 DW - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	ND		0.0020	0.00049	ug/L		03/18/20 05:03	03/22/20 11:04	1
Perfluoroheptanoic acid (PFHpA)	ND		0.0020	0.00049	ug/L		03/18/20 05:03	03/22/20 11:04	1
Perfluorooctanoic acid (PFOA)	ND		0.0020	0.00049	ug/L		03/18/20 05:03	03/22/20 11:04	1
Perfluorononanoic acid (PFNA)	ND		0.0020	0.00049	ug/L		03/18/20 05:03	03/22/20 11:04	1
Perfluorodecanoic acid (PFDA)	ND		0.0020	0.00049	ug/L		03/18/20 05:03	03/22/20 11:04	1
Perfluoroundecanoic acid (PFUnA)	ND		0.0020	0.00049	ug/L		03/18/20 05:03	03/22/20 11:04	1
Perfluorododecanoic acid (PFDoA)	ND		0.0020	0.00049	ug/L		03/18/20 05:03	03/22/20 11:04	1
Perfluorotridecanoic acid (PFTriA)	ND		0.0020	0.00049	ug/L		03/18/20 05:03	03/22/20 11:04	1
Perfluorotetradecanoic acid (PFTeA)	ND		0.0020	0.00049	ug/L		03/18/20 05:03	03/22/20 11:04	1

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Client Sample Results

Client: Alaska Department of Env. Conservation
Project/Site: PFAS, Alaska Drinking Water

Job ID: 320-59495-1

Client Sample ID: AN-10-DW

Date Collected: 03/11/20 15:55

Date Received: 03/14/20 09:20

Lab Sample ID: 320-59495-10

Matrix: Water

Method: 537.1 DW - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	0.0014	J	0.0020	0.00049	ug/L		03/18/20 05:03	03/22/20 11:04	1
Perfluorohexanesulfonic acid (PFHxS)	0.0031		0.0020	0.00049	ug/L		03/18/20 05:03	03/22/20 11:04	1
Perfluorooctanesulfonic acid (PFOS)	ND		0.0020	0.00049	ug/L		03/18/20 05:03	03/22/20 11:04	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.0020	0.00049	ug/L		03/18/20 05:03	03/22/20 11:04	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.0020	0.00049	ug/L		03/18/20 05:03	03/22/20 11:04	1
F-53B Major	ND		0.0020	0.00049	ug/L		03/18/20 05:03	03/22/20 11:04	1
F-53B Minor	ND		0.0020	0.00049	ug/L		03/18/20 05:03	03/22/20 11:04	1
HFPO-DA (GenX)	ND		0.0020	0.00049	ug/L		03/18/20 05:03	03/22/20 11:04	1
DONA	ND		0.0020	0.00049	ug/L		03/18/20 05:03	03/22/20 11:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFHxA	104		70 - 130				03/18/20 05:03	03/22/20 11:04	1
13C2 PFDA	105		70 - 130				03/18/20 05:03	03/22/20 11:04	1
d5-NEtFOSAA	102		70 - 130				03/18/20 05:03	03/22/20 11:04	1
13C3 HFPO-DA	100		70 - 130				03/18/20 05:03	03/22/20 11:04	1

Client Sample ID: AN-11-DW

Date Collected: 03/11/20 16:12

Date Received: 03/14/20 09:20

Lab Sample ID: 320-59495-11

Matrix: Water

Method: 537.1 DW - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	0.0012	J	0.0020	0.00051	ug/L		03/18/20 04:10	03/22/20 04:08	1
Perfluoroheptanoic acid (PFHpA)	ND		0.0020	0.00051	ug/L		03/18/20 04:10	03/22/20 04:08	1
Perfluorooctanoic acid (PFOA)	ND		0.0020	0.00051	ug/L		03/18/20 04:10	03/22/20 04:08	1
Perfluorononanoic acid (PFNA)	ND		0.0020	0.00051	ug/L		03/18/20 04:10	03/22/20 04:08	1
Perfluorodecanoic acid (PFDA)	ND		0.0020	0.00051	ug/L		03/18/20 04:10	03/22/20 04:08	1
Perfluoroundecanoic acid (PFUnA)	ND		0.0020	0.00051	ug/L		03/18/20 04:10	03/22/20 04:08	1
Perfluorododecanoic acid (PFDoA)	ND		0.0020	0.00051	ug/L		03/18/20 04:10	03/22/20 04:08	1
Perfluorotridecanoic acid (PFTriA)	ND		0.0020	0.00051	ug/L		03/18/20 04:10	03/22/20 04:08	1
Perfluorotetradecanoic acid (PFTeA)	ND		0.0020	0.00051	ug/L		03/18/20 04:10	03/22/20 04:08	1
Perfluorobutanesulfonic acid (PFBS)	0.0019	J	0.0020	0.00051	ug/L		03/18/20 04:10	03/22/20 04:08	1
Perfluorohexanesulfonic acid (PFHxS)	0.0039		0.0020	0.00051	ug/L		03/18/20 04:10	03/22/20 04:08	1
Perfluorooctanesulfonic acid (PFOS)	ND		0.0020	0.00051	ug/L		03/18/20 04:10	03/22/20 04:08	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.0020	0.00051	ug/L		03/18/20 04:10	03/22/20 04:08	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.0020	0.00051	ug/L		03/18/20 04:10	03/22/20 04:08	1
F-53B Major	ND		0.0020	0.00051	ug/L		03/18/20 04:10	03/22/20 04:08	1
F-53B Minor	ND		0.0020	0.00051	ug/L		03/18/20 04:10	03/22/20 04:08	1
HFPO-DA (GenX)	ND		0.0020	0.00051	ug/L		03/18/20 04:10	03/22/20 04:08	1
DONA	ND		0.0020	0.00051	ug/L		03/18/20 04:10	03/22/20 04:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFHxA	115		70 - 130				03/18/20 04:10	03/22/20 04:08	1
13C2 PFDA	116		70 - 130				03/18/20 04:10	03/22/20 04:08	1

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Client Sample Results

Client: Alaska Department of Env. Conservation
Project/Site: PFAS, Alaska Drinking Water

Job ID: 320-59495-1

Client Sample ID: AN-11-DW

Date Collected: 03/11/20 16:12

Date Received: 03/14/20 09:20

Lab Sample ID: 320-59495-11

Matrix: Water

Method: 537.1 DW - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	101		70 - 130	03/18/20 04:10	03/22/20 04:08	1
13C3 HFPO-DA	113		70 - 130	03/18/20 04:10	03/22/20 04:08	1

Client Sample ID: AN-12-DW

Date Collected: 03/11/20 16:44

Date Received: 03/14/20 09:20

Lab Sample ID: 320-59495-12

Matrix: Water

Method: 537.1 DW - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	ND		0.0020	0.00050	ug/L		03/18/20 04:10	03/22/20 04:16	1
Perfluoroheptanoic acid (PFHpA)	ND		0.0020	0.00050	ug/L		03/18/20 04:10	03/22/20 04:16	1
Perfluorooctanoic acid (PFOA)	ND		0.0020	0.00050	ug/L		03/18/20 04:10	03/22/20 04:16	1
Perfluorononanoic acid (PFNA)	ND		0.0020	0.00050	ug/L		03/18/20 04:10	03/22/20 04:16	1
Perfluorodecanoic acid (PFDA)	ND		0.0020	0.00050	ug/L		03/18/20 04:10	03/22/20 04:16	1
Perfluoroundecanoic acid (PFUnA)	ND		0.0020	0.00050	ug/L		03/18/20 04:10	03/22/20 04:16	1
Perfluorododecanoic acid (PFDoA)	ND		0.0020	0.00050	ug/L		03/18/20 04:10	03/22/20 04:16	1
Perfluorotridecanoic acid (PFTriA)	ND		0.0020	0.00050	ug/L		03/18/20 04:10	03/22/20 04:16	1
Perfluorotetradecanoic acid (PFTeA)	ND		0.0020	0.00050	ug/L		03/18/20 04:10	03/22/20 04:16	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.0020	0.00050	ug/L		03/18/20 04:10	03/22/20 04:16	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.0020	0.00050	ug/L		03/18/20 04:10	03/22/20 04:16	1
Perfluorooctanesulfonic acid (PFOS)	ND		0.0020	0.00050	ug/L		03/18/20 04:10	03/22/20 04:16	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.0020	0.00050	ug/L		03/18/20 04:10	03/22/20 04:16	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.0020	0.00050	ug/L		03/18/20 04:10	03/22/20 04:16	1
F-53B Major	ND		0.0020	0.00050	ug/L		03/18/20 04:10	03/22/20 04:16	1
F-53B Minor	ND		0.0020	0.00050	ug/L		03/18/20 04:10	03/22/20 04:16	1
HFPO-DA (GenX)	ND		0.0020	0.00050	ug/L		03/18/20 04:10	03/22/20 04:16	1
DONA	ND		0.0020	0.00050	ug/L		03/18/20 04:10	03/22/20 04:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFHxA	104		70 - 130				03/18/20 04:10	03/22/20 04:16	1
13C2 PFDA	105		70 - 130				03/18/20 04:10	03/22/20 04:16	1
d5-NEtFOSAA	104		70 - 130				03/18/20 04:10	03/22/20 04:16	1
13C3 HFPO-DA	105		70 - 130				03/18/20 04:10	03/22/20 04:16	1

Client Sample ID: AN-13-DW

Date Collected: 03/11/20 17:00

Date Received: 03/14/20 09:20

Lab Sample ID: 320-59495-13

Matrix: Water

Method: 537.1 DW - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	ND		0.0020	0.00049	ug/L		03/18/20 04:10	03/22/20 04:23	1
Perfluoroheptanoic acid (PFHpA)	ND		0.0020	0.00049	ug/L		03/18/20 04:10	03/22/20 04:23	1
Perfluorooctanoic acid (PFOA)	ND		0.0020	0.00049	ug/L		03/18/20 04:10	03/22/20 04:23	1
Perfluorononanoic acid (PFNA)	ND		0.0020	0.00049	ug/L		03/18/20 04:10	03/22/20 04:23	1
Perfluorodecanoic acid (PFDA)	ND		0.0020	0.00049	ug/L		03/18/20 04:10	03/22/20 04:23	1
Perfluoroundecanoic acid (PFUnA)	ND		0.0020	0.00049	ug/L		03/18/20 04:10	03/22/20 04:23	1
Perfluorododecanoic acid (PFDoA)	ND		0.0020	0.00049	ug/L		03/18/20 04:10	03/22/20 04:23	1
Perfluorotridecanoic acid (PFTriA)	ND		0.0020	0.00049	ug/L		03/18/20 04:10	03/22/20 04:23	1
Perfluorotetradecanoic acid (PFTeA)	ND		0.0020	0.00049	ug/L		03/18/20 04:10	03/22/20 04:23	1

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Client Sample Results

Client: Alaska Department of Env. Conservation
Project/Site: PFAS, Alaska Drinking Water

Job ID: 320-59495-1

Client Sample ID: AN-13-DW

Date Collected: 03/11/20 17:00

Date Received: 03/14/20 09:20

Lab Sample ID: 320-59495-13

Matrix: Water

Method: 537.1 DW - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	ND		0.0020	0.00049	ug/L		03/18/20 04:10	03/22/20 04:23	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.0020	0.00049	ug/L		03/18/20 04:10	03/22/20 04:23	1
Perfluorooctanesulfonic acid (PFOS)	ND		0.0020	0.00049	ug/L		03/18/20 04:10	03/22/20 04:23	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.0020	0.00049	ug/L		03/18/20 04:10	03/22/20 04:23	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.0020	0.00049	ug/L		03/18/20 04:10	03/22/20 04:23	1
F-53B Major	ND		0.0020	0.00049	ug/L		03/18/20 04:10	03/22/20 04:23	1
F-53B Minor	ND		0.0020	0.00049	ug/L		03/18/20 04:10	03/22/20 04:23	1
HFPO-DA (GenX)	ND		0.0020	0.00049	ug/L		03/18/20 04:10	03/22/20 04:23	1
DONA	ND		0.0020	0.00049	ug/L		03/18/20 04:10	03/22/20 04:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFHxA	104		70 - 130				03/18/20 04:10	03/22/20 04:23	1
13C2 PFDA	100		70 - 130				03/18/20 04:10	03/22/20 04:23	1
d5-NEtFOSAA	96		70 - 130				03/18/20 04:10	03/22/20 04:23	1
13C3 HFPO-DA	103		70 - 130				03/18/20 04:10	03/22/20 04:23	1

Client Sample ID: AN-14-DW

Date Collected: 03/11/20 17:20

Date Received: 03/14/20 09:20

Lab Sample ID: 320-59495-14

Matrix: Water

Method: 537.1 DW - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	ND		0.0020	0.00050	ug/L		03/18/20 04:10	03/22/20 04:31	1
Perfluoroheptanoic acid (PFHpA)	ND		0.0020	0.00050	ug/L		03/18/20 04:10	03/22/20 04:31	1
Perfluorooctanoic acid (PFOA)	ND		0.0020	0.00050	ug/L		03/18/20 04:10	03/22/20 04:31	1
Perfluorononanoic acid (PFNA)	ND		0.0020	0.00050	ug/L		03/18/20 04:10	03/22/20 04:31	1
Perfluorodecanoic acid (PFDA)	ND		0.0020	0.00050	ug/L		03/18/20 04:10	03/22/20 04:31	1
Perfluoroundecanoic acid (PFUnA)	ND		0.0020	0.00050	ug/L		03/18/20 04:10	03/22/20 04:31	1
Perfluorododecanoic acid (PFDoA)	ND		0.0020	0.00050	ug/L		03/18/20 04:10	03/22/20 04:31	1
Perfluorotridecanoic acid (PFTriA)	ND		0.0020	0.00050	ug/L		03/18/20 04:10	03/22/20 04:31	1
Perfluorotetradecanoic acid (PFTeA)	ND		0.0020	0.00050	ug/L		03/18/20 04:10	03/22/20 04:31	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.0020	0.00050	ug/L		03/18/20 04:10	03/22/20 04:31	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.0020	0.00050	ug/L		03/18/20 04:10	03/22/20 04:31	1
Perfluorooctanesulfonic acid (PFOS)	ND		0.0020	0.00050	ug/L		03/18/20 04:10	03/22/20 04:31	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.0020	0.00050	ug/L		03/18/20 04:10	03/22/20 04:31	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.0020	0.00050	ug/L		03/18/20 04:10	03/22/20 04:31	1
F-53B Major	ND		0.0020	0.00050	ug/L		03/18/20 04:10	03/22/20 04:31	1
F-53B Minor	ND		0.0020	0.00050	ug/L		03/18/20 04:10	03/22/20 04:31	1
HFPO-DA (GenX)	ND		0.0020	0.00050	ug/L		03/18/20 04:10	03/22/20 04:31	1
DONA	ND		0.0020	0.00050	ug/L		03/18/20 04:10	03/22/20 04:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFHxA	106		70 - 130				03/18/20 04:10	03/22/20 04:31	1
13C2 PFDA	107		70 - 130				03/18/20 04:10	03/22/20 04:31	1
d5-NEtFOSAA	106		70 - 130				03/18/20 04:10	03/22/20 04:31	1
13C3 HFPO-DA	105		70 - 130				03/18/20 04:10	03/22/20 04:31	1

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Client Sample Results

Client: Alaska Department of Env. Conservation
Project/Site: PFAS, Alaska Drinking Water

Job ID: 320-59495-1

Client Sample ID: AN-15-DW

Lab Sample ID: 320-59495-15

Date Collected: 03/11/20 17:43

Matrix: Water

Date Received: 03/14/20 09:20

Method: 537.1 DW - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	0.0016	J	0.0020	0.00049	ug/L		03/18/20 04:10	03/22/20 04:39	1
Perfluoroheptanoic acid (PFHpA)	ND		0.0020	0.00049	ug/L		03/18/20 04:10	03/22/20 04:39	1
Perfluorooctanoic acid (PFOA)	ND		0.0020	0.00049	ug/L		03/18/20 04:10	03/22/20 04:39	1
Perfluorononanoic acid (PFNA)	ND		0.0020	0.00049	ug/L		03/18/20 04:10	03/22/20 04:39	1
Perfluorodecanoic acid (PFDA)	ND		0.0020	0.00049	ug/L		03/18/20 04:10	03/22/20 04:39	1
Perfluoroundecanoic acid (PFUnA)	ND		0.0020	0.00049	ug/L		03/18/20 04:10	03/22/20 04:39	1
Perfluorododecanoic acid (PFDoA)	ND		0.0020	0.00049	ug/L		03/18/20 04:10	03/22/20 04:39	1
Perfluorotridecanoic acid (PFTriA)	ND		0.0020	0.00049	ug/L		03/18/20 04:10	03/22/20 04:39	1
Perfluorotetradecanoic acid (PFTeA)	ND		0.0020	0.00049	ug/L		03/18/20 04:10	03/22/20 04:39	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.0020	0.00049	ug/L		03/18/20 04:10	03/22/20 04:39	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.0020	0.00049	ug/L		03/18/20 04:10	03/22/20 04:39	1
Perfluorooctanesulfonic acid (PFOS)	ND		0.0020	0.00049	ug/L		03/18/20 04:10	03/22/20 04:39	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.0020	0.00049	ug/L		03/18/20 04:10	03/22/20 04:39	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.0020	0.00049	ug/L		03/18/20 04:10	03/22/20 04:39	1
F-53B Major	ND		0.0020	0.00049	ug/L		03/18/20 04:10	03/22/20 04:39	1
F-53B Minor	ND		0.0020	0.00049	ug/L		03/18/20 04:10	03/22/20 04:39	1
HFPO-DA (GenX)	ND		0.0020	0.00049	ug/L		03/18/20 04:10	03/22/20 04:39	1
DONA	ND		0.0020	0.00049	ug/L		03/18/20 04:10	03/22/20 04:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	107		70 - 130	03/18/20 04:10	03/22/20 04:39	1
13C2 PFDA	107		70 - 130	03/18/20 04:10	03/22/20 04:39	1
d5-NEtFOSAA	98		70 - 130	03/18/20 04:10	03/22/20 04:39	1
13C3 HFPO-DA	107		70 - 130	03/18/20 04:10	03/22/20 04:39	1

Client Sample ID: AN-16-DW

Lab Sample ID: 320-59495-16

Date Collected: 03/11/20 18:02

Matrix: Water

Date Received: 03/14/20 09:20

Method: 537.1 DW - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	ND		0.0020	0.00049	ug/L		03/18/20 04:10	03/22/20 04:46	1
Perfluoroheptanoic acid (PFHpA)	ND		0.0020	0.00049	ug/L		03/18/20 04:10	03/22/20 04:46	1
Perfluorooctanoic acid (PFOA)	ND		0.0020	0.00049	ug/L		03/18/20 04:10	03/22/20 04:46	1
Perfluorononanoic acid (PFNA)	ND		0.0020	0.00049	ug/L		03/18/20 04:10	03/22/20 04:46	1
Perfluorodecanoic acid (PFDA)	ND		0.0020	0.00049	ug/L		03/18/20 04:10	03/22/20 04:46	1
Perfluoroundecanoic acid (PFUnA)	ND		0.0020	0.00049	ug/L		03/18/20 04:10	03/22/20 04:46	1
Perfluorododecanoic acid (PFDoA)	ND		0.0020	0.00049	ug/L		03/18/20 04:10	03/22/20 04:46	1
Perfluorotridecanoic acid (PFTriA)	ND		0.0020	0.00049	ug/L		03/18/20 04:10	03/22/20 04:46	1
Perfluorotetradecanoic acid (PFTeA)	ND		0.0020	0.00049	ug/L		03/18/20 04:10	03/22/20 04:46	1
Perfluorobutanesulfonic acid (PFBS)	0.0021		0.0020	0.00049	ug/L		03/18/20 04:10	03/22/20 04:46	1
Perfluorohexanesulfonic acid (PFHxS)	0.0070		0.0020	0.00049	ug/L		03/18/20 04:10	03/22/20 04:46	1
Perfluorooctanesulfonic acid (PFOS)	0.0022		0.0020	0.00049	ug/L		03/18/20 04:10	03/22/20 04:46	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.0020	0.00049	ug/L		03/18/20 04:10	03/22/20 04:46	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.0020	0.00049	ug/L		03/18/20 04:10	03/22/20 04:46	1

Eurofins TestAmerica, Sacramento

Client Sample Results

Client: Alaska Department of Env. Conservation
Project/Site: PFAS, Alaska Drinking Water

Job ID: 320-59495-1

Client Sample ID: AN-16-DW

Lab Sample ID: 320-59495-16

Date Collected: 03/11/20 18:02

Matrix: Water

Date Received: 03/14/20 09:20

Method: 537.1 DW - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
F-53B Major	ND		0.0020	0.00049	ug/L		03/18/20 04:10	03/22/20 04:46	1
F-53B Minor	ND		0.0020	0.00049	ug/L		03/18/20 04:10	03/22/20 04:46	1
HFPO-DA (GenX)	ND		0.0020	0.00049	ug/L		03/18/20 04:10	03/22/20 04:46	1
DONA	ND		0.0020	0.00049	ug/L		03/18/20 04:10	03/22/20 04:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFHxA	107		70 - 130				03/18/20 04:10	03/22/20 04:46	1
13C2 PFDA	110		70 - 130				03/18/20 04:10	03/22/20 04:46	1
d5-NEtFOSAA	106		70 - 130				03/18/20 04:10	03/22/20 04:46	1
13C3 HFPO-DA	107		70 - 130				03/18/20 04:10	03/22/20 04:46	1

Client Sample ID: AN-17-DW

Lab Sample ID: 320-59495-17

Date Collected: 03/11/20 18:21

Matrix: Water

Date Received: 03/14/20 09:20

Method: 537.1 DW - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	ND		0.0020	0.00049	ug/L		03/18/20 04:10	03/22/20 04:54	1
Perfluoroheptanoic acid (PFHpA)	ND		0.0020	0.00049	ug/L		03/18/20 04:10	03/22/20 04:54	1
Perfluorooctanoic acid (PFOA)	ND		0.0020	0.00049	ug/L		03/18/20 04:10	03/22/20 04:54	1
Perfluorononanoic acid (PFNA)	ND		0.0020	0.00049	ug/L		03/18/20 04:10	03/22/20 04:54	1
Perfluorodecanoic acid (PFDA)	ND		0.0020	0.00049	ug/L		03/18/20 04:10	03/22/20 04:54	1
Perfluoroundecanoic acid (PFUnA)	ND		0.0020	0.00049	ug/L		03/18/20 04:10	03/22/20 04:54	1
Perfluorododecanoic acid (PFDoA)	ND		0.0020	0.00049	ug/L		03/18/20 04:10	03/22/20 04:54	1
Perfluorotridecanoic acid (PFTriA)	ND		0.0020	0.00049	ug/L		03/18/20 04:10	03/22/20 04:54	1
Perfluorotetradecanoic acid (PFTeA)	ND		0.0020	0.00049	ug/L		03/18/20 04:10	03/22/20 04:54	1
Perfluorobutanesulfonic acid (PFBS)	0.0018	J	0.0020	0.00049	ug/L		03/18/20 04:10	03/22/20 04:54	1
Perfluorohexanesulfonic acid (PFHxS)	0.0022		0.0020	0.00049	ug/L		03/18/20 04:10	03/22/20 04:54	1
Perfluorooctanesulfonic acid (PFOS)	ND		0.0020	0.00049	ug/L		03/18/20 04:10	03/22/20 04:54	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.0020	0.00049	ug/L		03/18/20 04:10	03/22/20 04:54	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.0020	0.00049	ug/L		03/18/20 04:10	03/22/20 04:54	1
F-53B Major	ND		0.0020	0.00049	ug/L		03/18/20 04:10	03/22/20 04:54	1
F-53B Minor	ND		0.0020	0.00049	ug/L		03/18/20 04:10	03/22/20 04:54	1
HFPO-DA (GenX)	ND		0.0020	0.00049	ug/L		03/18/20 04:10	03/22/20 04:54	1
DONA	ND		0.0020	0.00049	ug/L		03/18/20 04:10	03/22/20 04:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFHxA	101		70 - 130				03/18/20 04:10	03/22/20 04:54	1
13C2 PFDA	106		70 - 130				03/18/20 04:10	03/22/20 04:54	1
d5-NEtFOSAA	104		70 - 130				03/18/20 04:10	03/22/20 04:54	1
13C3 HFPO-DA	103		70 - 130				03/18/20 04:10	03/22/20 04:54	1

Eurofins TestAmerica, Sacramento

Client Sample Results

Client: Alaska Department of Env. Conservation
Project/Site: PFAS, Alaska Drinking Water

Job ID: 320-59495-1

Client Sample ID: AN-18-DW

Lab Sample ID: 320-59495-18

Date Collected: 03/11/20 18:47

Matrix: Water

Date Received: 03/14/20 09:20

Method: 537.1 DW - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	ND		0.0019	0.00048	ug/L		03/18/20 04:10	03/22/20 05:40	1
Perfluoroheptanoic acid (PFHpA)	ND		0.0019	0.00048	ug/L		03/18/20 04:10	03/22/20 05:40	1
Perfluorooctanoic acid (PFOA)	ND		0.0019	0.00048	ug/L		03/18/20 04:10	03/22/20 05:40	1
Perfluorononanoic acid (PFNA)	ND		0.0019	0.00048	ug/L		03/18/20 04:10	03/22/20 05:40	1
Perfluorodecanoic acid (PFDA)	ND		0.0019	0.00048	ug/L		03/18/20 04:10	03/22/20 05:40	1
Perfluoroundecanoic acid (PFUnA)	ND		0.0019	0.00048	ug/L		03/18/20 04:10	03/22/20 05:40	1
Perfluorododecanoic acid (PFDoA)	ND		0.0019	0.00048	ug/L		03/18/20 04:10	03/22/20 05:40	1
Perfluorotridecanoic acid (PFTriA)	ND		0.0019	0.00048	ug/L		03/18/20 04:10	03/22/20 05:40	1
Perfluorotetradecanoic acid (PFTeA)	ND		0.0019	0.00048	ug/L		03/18/20 04:10	03/22/20 05:40	1
Perfluorobutanesulfonic acid (PFBS)	0.0016	J	0.0019	0.00048	ug/L		03/18/20 04:10	03/22/20 05:40	1
Perfluorohexanesulfonic acid (PFHxS)	0.0044		0.0019	0.00048	ug/L		03/18/20 04:10	03/22/20 05:40	1
Perfluorooctanesulfonic acid (PFOS)	0.0010	J	0.0019	0.00048	ug/L		03/18/20 04:10	03/22/20 05:40	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.0019	0.00048	ug/L		03/18/20 04:10	03/22/20 05:40	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.0019	0.00048	ug/L		03/18/20 04:10	03/22/20 05:40	1
F-53B Major	ND		0.0019	0.00048	ug/L		03/18/20 04:10	03/22/20 05:40	1
F-53B Minor	ND		0.0019	0.00048	ug/L		03/18/20 04:10	03/22/20 05:40	1
HFPO-DA (GenX)	ND		0.0019	0.00048	ug/L		03/18/20 04:10	03/22/20 05:40	1
DONA	ND		0.0019	0.00048	ug/L		03/18/20 04:10	03/22/20 05:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFHxA	95		70 - 130				03/18/20 04:10	03/22/20 05:40	1
13C2 PFDA	101		70 - 130				03/18/20 04:10	03/22/20 05:40	1
d5-NEtFOSAA	97		70 - 130				03/18/20 04:10	03/22/20 05:40	1
13C3 HFPO-DA	97		70 - 130				03/18/20 04:10	03/22/20 05:40	1

Client Sample ID: AN-19-DW

Lab Sample ID: 320-59495-19

Date Collected: 03/11/20 19:04

Matrix: Water

Date Received: 03/14/20 09:20

Method: 537.1 DW - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	ND		0.0019	0.00048	ug/L		03/18/20 04:10	03/22/20 05:48	1
Perfluoroheptanoic acid (PFHpA)	ND		0.0019	0.00048	ug/L		03/18/20 04:10	03/22/20 05:48	1
Perfluorooctanoic acid (PFOA)	ND		0.0019	0.00048	ug/L		03/18/20 04:10	03/22/20 05:48	1
Perfluorononanoic acid (PFNA)	ND		0.0019	0.00048	ug/L		03/18/20 04:10	03/22/20 05:48	1
Perfluorodecanoic acid (PFDA)	ND		0.0019	0.00048	ug/L		03/18/20 04:10	03/22/20 05:48	1
Perfluoroundecanoic acid (PFUnA)	ND		0.0019	0.00048	ug/L		03/18/20 04:10	03/22/20 05:48	1
Perfluorododecanoic acid (PFDoA)	ND		0.0019	0.00048	ug/L		03/18/20 04:10	03/22/20 05:48	1
Perfluorotridecanoic acid (PFTriA)	ND		0.0019	0.00048	ug/L		03/18/20 04:10	03/22/20 05:48	1
Perfluorotetradecanoic acid (PFTeA)	ND		0.0019	0.00048	ug/L		03/18/20 04:10	03/22/20 05:48	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.0019	0.00048	ug/L		03/18/20 04:10	03/22/20 05:48	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.0019	0.00048	ug/L		03/18/20 04:10	03/22/20 05:48	1
Perfluorooctanesulfonic acid (PFOS)	ND		0.0019	0.00048	ug/L		03/18/20 04:10	03/22/20 05:48	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.0019	0.00048	ug/L		03/18/20 04:10	03/22/20 05:48	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.0019	0.00048	ug/L		03/18/20 04:10	03/22/20 05:48	1

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Client Sample Results

Client: Alaska Department of Env. Conservation
Project/Site: PFAS, Alaska Drinking Water

Job ID: 320-59495-1

Client Sample ID: AN-19-DW

Lab Sample ID: 320-59495-19

Date Collected: 03/11/20 19:04

Matrix: Water

Date Received: 03/14/20 09:20

Method: 537.1 DW - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
F-53B Major	ND		0.0019	0.00048	ug/L		03/18/20 04:10	03/22/20 05:48	1
F-53B Minor	ND		0.0019	0.00048	ug/L		03/18/20 04:10	03/22/20 05:48	1
HFPO-DA (GenX)	ND		0.0019	0.00048	ug/L		03/18/20 04:10	03/22/20 05:48	1
DONA	ND		0.0019	0.00048	ug/L		03/18/20 04:10	03/22/20 05:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFHxA	103		70 - 130				03/18/20 04:10	03/22/20 05:48	1
13C2 PFDA	104		70 - 130				03/18/20 04:10	03/22/20 05:48	1
d5-NEtFOSAA	96		70 - 130				03/18/20 04:10	03/22/20 05:48	1
13C3 HFPO-DA	104		70 - 130				03/18/20 04:10	03/22/20 05:48	1

Client Sample ID: AN-20-DW

Lab Sample ID: 320-59495-20

Date Collected: 03/12/20 08:15

Matrix: Water

Date Received: 03/14/20 09:20

Method: 537.1 DW - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	ND		0.0020	0.00050	ug/L		03/18/20 04:10	03/22/20 05:56	1
Perfluoroheptanoic acid (PFHpA)	ND		0.0020	0.00050	ug/L		03/18/20 04:10	03/22/20 05:56	1
Perfluorooctanoic acid (PFOA)	ND		0.0020	0.00050	ug/L		03/18/20 04:10	03/22/20 05:56	1
Perfluorononanoic acid (PFNA)	ND		0.0020	0.00050	ug/L		03/18/20 04:10	03/22/20 05:56	1
Perfluorodecanoic acid (PFDA)	ND		0.0020	0.00050	ug/L		03/18/20 04:10	03/22/20 05:56	1
Perfluoroundecanoic acid (PFUnA)	ND		0.0020	0.00050	ug/L		03/18/20 04:10	03/22/20 05:56	1
Perfluorododecanoic acid (PFDoA)	ND		0.0020	0.00050	ug/L		03/18/20 04:10	03/22/20 05:56	1
Perfluorotridecanoic acid (PFTriA)	ND		0.0020	0.00050	ug/L		03/18/20 04:10	03/22/20 05:56	1
Perfluorotetradecanoic acid (PFTeA)	ND		0.0020	0.00050	ug/L		03/18/20 04:10	03/22/20 05:56	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.0020	0.00050	ug/L		03/18/20 04:10	03/22/20 05:56	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.0020	0.00050	ug/L		03/18/20 04:10	03/22/20 05:56	1
Perfluorooctanesulfonic acid (PFOS)	ND		0.0020	0.00050	ug/L		03/18/20 04:10	03/22/20 05:56	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.0020	0.00050	ug/L		03/18/20 04:10	03/22/20 05:56	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.0020	0.00050	ug/L		03/18/20 04:10	03/22/20 05:56	1
F-53B Major	ND		0.0020	0.00050	ug/L		03/18/20 04:10	03/22/20 05:56	1
F-53B Minor	ND		0.0020	0.00050	ug/L		03/18/20 04:10	03/22/20 05:56	1
HFPO-DA (GenX)	ND		0.0020	0.00050	ug/L		03/18/20 04:10	03/22/20 05:56	1
DONA	ND		0.0020	0.00050	ug/L		03/18/20 04:10	03/22/20 05:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFHxA	106		70 - 130				03/18/20 04:10	03/22/20 05:56	1
13C2 PFDA	104		70 - 130				03/18/20 04:10	03/22/20 05:56	1
d5-NEtFOSAA	96		70 - 130				03/18/20 04:10	03/22/20 05:56	1
13C3 HFPO-DA	106		70 - 130				03/18/20 04:10	03/22/20 05:56	1

Client Sample ID: AN-21-DW

Lab Sample ID: 320-59495-21

Date Collected: 03/12/20 08:15

Matrix: Water

Date Received: 03/14/20 09:20

Method: 537.1 DW - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	ND		0.0019	0.00048	ug/L		03/18/20 04:47	03/22/20 06:34	1

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Client Sample Results

Client: Alaska Department of Env. Conservation
Project/Site: PFAS, Alaska Drinking Water

Job ID: 320-59495-1

Client Sample ID: AN-21-DW

Lab Sample ID: 320-59495-21

Date Collected: 03/12/20 08:15

Matrix: Water

Date Received: 03/14/20 09:20

Method: 537.1 DW - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoroheptanoic acid (PFHpA)	ND		0.0019	0.00048	ug/L		03/18/20 04:47	03/22/20 06:34	1
Perfluorooctanoic acid (PFOA)	ND		0.0019	0.00048	ug/L		03/18/20 04:47	03/22/20 06:34	1
Perfluorononanoic acid (PFNA)	ND		0.0019	0.00048	ug/L		03/18/20 04:47	03/22/20 06:34	1
Perfluorodecanoic acid (PFDA)	ND		0.0019	0.00048	ug/L		03/18/20 04:47	03/22/20 06:34	1
Perfluoroundecanoic acid (PFUnA)	ND		0.0019	0.00048	ug/L		03/18/20 04:47	03/22/20 06:34	1
Perfluorododecanoic acid (PFDoA)	ND		0.0019	0.00048	ug/L		03/18/20 04:47	03/22/20 06:34	1
Perfluorotridecanoic acid (PFTriA)	ND		0.0019	0.00048	ug/L		03/18/20 04:47	03/22/20 06:34	1
Perfluorotetradecanoic acid (PFTeA)	ND		0.0019	0.00048	ug/L		03/18/20 04:47	03/22/20 06:34	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.0019	0.00048	ug/L		03/18/20 04:47	03/22/20 06:34	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.0019	0.00048	ug/L		03/18/20 04:47	03/22/20 06:34	1
Perfluorooctanesulfonic acid (PFOS)	ND		0.0019	0.00048	ug/L		03/18/20 04:47	03/22/20 06:34	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.0019	0.00048	ug/L		03/18/20 04:47	03/22/20 06:34	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.0019	0.00048	ug/L		03/18/20 04:47	03/22/20 06:34	1
F-53B Major	ND		0.0019	0.00048	ug/L		03/18/20 04:47	03/22/20 06:34	1
F-53B Minor	ND		0.0019	0.00048	ug/L		03/18/20 04:47	03/22/20 06:34	1
HFPO-DA (GenX)	ND		0.0019	0.00048	ug/L		03/18/20 04:47	03/22/20 06:34	1
DONA	ND		0.0019	0.00048	ug/L		03/18/20 04:47	03/22/20 06:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFHxA	97		70 - 130				03/18/20 04:47	03/22/20 06:34	1
13C2 PFDA	98		70 - 130				03/18/20 04:47	03/22/20 06:34	1
d5-NEtFOSAA	83		70 - 130				03/18/20 04:47	03/22/20 06:34	1
13C3 HFPO-DA	99		70 - 130				03/18/20 04:47	03/22/20 06:34	1

Client Sample ID: AN-22-DW

Lab Sample ID: 320-59495-22

Date Collected: 03/12/20 08:33

Matrix: Water

Date Received: 03/14/20 09:20

Method: 537.1 DW - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	ND		0.0019	0.00048	ug/L		03/18/20 04:47	03/22/20 06:42	1
Perfluoroheptanoic acid (PFHpA)	ND		0.0019	0.00048	ug/L		03/18/20 04:47	03/22/20 06:42	1
Perfluorooctanoic acid (PFOA)	ND		0.0019	0.00048	ug/L		03/18/20 04:47	03/22/20 06:42	1
Perfluorononanoic acid (PFNA)	ND		0.0019	0.00048	ug/L		03/18/20 04:47	03/22/20 06:42	1
Perfluorodecanoic acid (PFDA)	ND		0.0019	0.00048	ug/L		03/18/20 04:47	03/22/20 06:42	1
Perfluoroundecanoic acid (PFUnA)	ND		0.0019	0.00048	ug/L		03/18/20 04:47	03/22/20 06:42	1
Perfluorododecanoic acid (PFDoA)	ND		0.0019	0.00048	ug/L		03/18/20 04:47	03/22/20 06:42	1
Perfluorotridecanoic acid (PFTriA)	ND		0.0019	0.00048	ug/L		03/18/20 04:47	03/22/20 06:42	1
Perfluorotetradecanoic acid (PFTeA)	ND		0.0019	0.00048	ug/L		03/18/20 04:47	03/22/20 06:42	1
Perfluorobutanesulfonic acid (PFBS)	0.0018	J	0.0019	0.00048	ug/L		03/18/20 04:47	03/22/20 06:42	1
Perfluorohexanesulfonic acid (PFHxS)	0.0033		0.0019	0.00048	ug/L		03/18/20 04:47	03/22/20 06:42	1
Perfluorooctanesulfonic acid (PFOS)	ND		0.0019	0.00048	ug/L		03/18/20 04:47	03/22/20 06:42	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.0019	0.00048	ug/L		03/18/20 04:47	03/22/20 06:42	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.0019	0.00048	ug/L		03/18/20 04:47	03/22/20 06:42	1
F-53B Major	ND		0.0019	0.00048	ug/L		03/18/20 04:47	03/22/20 06:42	1
F-53B Minor	ND		0.0019	0.00048	ug/L		03/18/20 04:47	03/22/20 06:42	1

Eurofins TestAmerica, Sacramento

Client Sample Results

Client: Alaska Department of Env. Conservation
Project/Site: PFAS, Alaska Drinking Water

Job ID: 320-59495-1

Client Sample ID: AN-22-DW

Date Collected: 03/12/20 08:33

Date Received: 03/14/20 09:20

Lab Sample ID: 320-59495-22

Matrix: Water

Method: 537.1 DW - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA (GenX)	ND		0.0019	0.00048	ug/L		03/18/20 04:47	03/22/20 06:42	1
DONA	ND		0.0019	0.00048	ug/L		03/18/20 04:47	03/22/20 06:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFHxA	97		70 - 130				03/18/20 04:47	03/22/20 06:42	1
13C2 PFDA	103		70 - 130				03/18/20 04:47	03/22/20 06:42	1
d5-NEtFOSAA	100		70 - 130				03/18/20 04:47	03/22/20 06:42	1
13C3 HFPO-DA	96		70 - 130				03/18/20 04:47	03/22/20 06:42	1

Client Sample ID: AN-23-DW

Date Collected: 03/12/20 08:52

Date Received: 03/14/20 09:20

Lab Sample ID: 320-59495-23

Matrix: Water

Method: 537.1 DW - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	0.0012	J	0.0019	0.00049	ug/L		03/18/20 04:47	03/22/20 06:50	1
Perfluoroheptanoic acid (PFHpA)	ND		0.0019	0.00049	ug/L		03/18/20 04:47	03/22/20 06:50	1
Perfluorooctanoic acid (PFOA)	ND		0.0019	0.00049	ug/L		03/18/20 04:47	03/22/20 06:50	1
Perfluorononanoic acid (PFNA)	ND		0.0019	0.00049	ug/L		03/18/20 04:47	03/22/20 06:50	1
Perfluorodecanoic acid (PFDA)	ND		0.0019	0.00049	ug/L		03/18/20 04:47	03/22/20 06:50	1
Perfluoroundecanoic acid (PFUnA)	ND		0.0019	0.00049	ug/L		03/18/20 04:47	03/22/20 06:50	1
Perfluorododecanoic acid (PFDoA)	ND		0.0019	0.00049	ug/L		03/18/20 04:47	03/22/20 06:50	1
Perfluorotridecanoic acid (PFTriA)	ND		0.0019	0.00049	ug/L		03/18/20 04:47	03/22/20 06:50	1
Perfluorotetradecanoic acid (PFTeA)	ND		0.0019	0.00049	ug/L		03/18/20 04:47	03/22/20 06:50	1
Perfluorobutanesulfonic acid (PFBS)	0.0010	J	0.0019	0.00049	ug/L		03/18/20 04:47	03/22/20 06:50	1
Perfluorohexanesulfonic acid (PFHxS)	0.0055		0.0019	0.00049	ug/L		03/18/20 04:47	03/22/20 06:50	1
Perfluorooctanesulfonic acid (PFOS)	0.00058	J	0.0019	0.00049	ug/L		03/18/20 04:47	03/22/20 06:50	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.0019	0.00049	ug/L		03/18/20 04:47	03/22/20 06:50	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.0019	0.00049	ug/L		03/18/20 04:47	03/22/20 06:50	1
F-53B Major	ND		0.0019	0.00049	ug/L		03/18/20 04:47	03/22/20 06:50	1
F-53B Minor	ND		0.0019	0.00049	ug/L		03/18/20 04:47	03/22/20 06:50	1
HFPO-DA (GenX)	ND		0.0019	0.00049	ug/L		03/18/20 04:47	03/22/20 06:50	1
DONA	ND		0.0019	0.00049	ug/L		03/18/20 04:47	03/22/20 06:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFHxA	97		70 - 130				03/18/20 04:47	03/22/20 06:50	1
13C2 PFDA	90		70 - 130				03/18/20 04:47	03/22/20 06:50	1
d5-NEtFOSAA	83		70 - 130				03/18/20 04:47	03/22/20 06:50	1
13C3 HFPO-DA	96		70 - 130				03/18/20 04:47	03/22/20 06:50	1

Client Sample ID: AN-24-DW

Date Collected: 03/12/20 09:10

Date Received: 03/14/20 09:20

Lab Sample ID: 320-59495-24

Matrix: Water

Method: 537.1 DW - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	ND		0.0018	0.00046	ug/L		03/18/20 04:47	03/22/20 06:57	1

Eurofins TestAmerica, Sacramento

Client Sample Results

Client: Alaska Department of Env. Conservation
Project/Site: PFAS, Alaska Drinking Water

Job ID: 320-59495-1

Client Sample ID: AN-24-DW

Lab Sample ID: 320-59495-24

Date Collected: 03/12/20 09:10

Matrix: Water

Date Received: 03/14/20 09:20

Method: 537.1 DW - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoroheptanoic acid (PFHpA)	ND		0.0018	0.00046	ug/L		03/18/20 04:47	03/22/20 06:57	1
Perfluorooctanoic acid (PFOA)	ND		0.0018	0.00046	ug/L		03/18/20 04:47	03/22/20 06:57	1
Perfluorononanoic acid (PFNA)	ND		0.0018	0.00046	ug/L		03/18/20 04:47	03/22/20 06:57	1
Perfluorodecanoic acid (PFDA)	ND		0.0018	0.00046	ug/L		03/18/20 04:47	03/22/20 06:57	1
Perfluoroundecanoic acid (PFUnA)	ND		0.0018	0.00046	ug/L		03/18/20 04:47	03/22/20 06:57	1
Perfluorododecanoic acid (PFDoA)	ND		0.0018	0.00046	ug/L		03/18/20 04:47	03/22/20 06:57	1
Perfluorotridecanoic acid (PFTriA)	ND		0.0018	0.00046	ug/L		03/18/20 04:47	03/22/20 06:57	1
Perfluorotetradecanoic acid (PFTeA)	ND		0.0018	0.00046	ug/L		03/18/20 04:47	03/22/20 06:57	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.0018	0.00046	ug/L		03/18/20 04:47	03/22/20 06:57	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.0018	0.00046	ug/L		03/18/20 04:47	03/22/20 06:57	1
Perfluorooctanesulfonic acid (PFOS)	ND		0.0018	0.00046	ug/L		03/18/20 04:47	03/22/20 06:57	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.0018	0.00046	ug/L		03/18/20 04:47	03/22/20 06:57	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.0018	0.00046	ug/L		03/18/20 04:47	03/22/20 06:57	1
F-53B Major	ND		0.0018	0.00046	ug/L		03/18/20 04:47	03/22/20 06:57	1
F-53B Minor	ND		0.0018	0.00046	ug/L		03/18/20 04:47	03/22/20 06:57	1
HFPO-DA (GenX)	ND		0.0018	0.00046	ug/L		03/18/20 04:47	03/22/20 06:57	1
DONA	ND		0.0018	0.00046	ug/L		03/18/20 04:47	03/22/20 06:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	94		70 - 130	03/18/20 04:47	03/22/20 06:57	1
13C2 PFDA	97		70 - 130	03/18/20 04:47	03/22/20 06:57	1
d5-NEtFOSAA	91		70 - 130	03/18/20 04:47	03/22/20 06:57	1
13C3 HFPO-DA	92		70 - 130	03/18/20 04:47	03/22/20 06:57	1

Client Sample ID: AN-25-DW

Lab Sample ID: 320-59495-25

Date Collected: 03/12/20 09:36

Matrix: Water

Date Received: 03/14/20 09:20

Method: 537.1 DW - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	ND		0.0020	0.00050	ug/L		03/18/20 04:47	03/22/20 07:05	1
Perfluoroheptanoic acid (PFHpA)	ND		0.0020	0.00050	ug/L		03/18/20 04:47	03/22/20 07:05	1
Perfluorooctanoic acid (PFOA)	ND		0.0020	0.00050	ug/L		03/18/20 04:47	03/22/20 07:05	1
Perfluorononanoic acid (PFNA)	ND		0.0020	0.00050	ug/L		03/18/20 04:47	03/22/20 07:05	1
Perfluorodecanoic acid (PFDA)	ND		0.0020	0.00050	ug/L		03/18/20 04:47	03/22/20 07:05	1
Perfluoroundecanoic acid (PFUnA)	ND		0.0020	0.00050	ug/L		03/18/20 04:47	03/22/20 07:05	1
Perfluorododecanoic acid (PFDoA)	ND		0.0020	0.00050	ug/L		03/18/20 04:47	03/22/20 07:05	1
Perfluorotridecanoic acid (PFTriA)	ND		0.0020	0.00050	ug/L		03/18/20 04:47	03/22/20 07:05	1
Perfluorotetradecanoic acid (PFTeA)	ND		0.0020	0.00050	ug/L		03/18/20 04:47	03/22/20 07:05	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.0020	0.00050	ug/L		03/18/20 04:47	03/22/20 07:05	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.0020	0.00050	ug/L		03/18/20 04:47	03/22/20 07:05	1
Perfluorooctanesulfonic acid (PFOS)	0.00051	J	0.0020	0.00050	ug/L		03/18/20 04:47	03/22/20 07:05	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.0020	0.00050	ug/L		03/18/20 04:47	03/22/20 07:05	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.0020	0.00050	ug/L		03/18/20 04:47	03/22/20 07:05	1
F-53B Major	ND		0.0020	0.00050	ug/L		03/18/20 04:47	03/22/20 07:05	1
F-53B Minor	ND		0.0020	0.00050	ug/L		03/18/20 04:47	03/22/20 07:05	1

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Client Sample Results

Client: Alaska Department of Env. Conservation
Project/Site: PFAS, Alaska Drinking Water

Job ID: 320-59495-1

Client Sample ID: AN-25-DW

Date Collected: 03/12/20 09:36

Date Received: 03/14/20 09:20

Lab Sample ID: 320-59495-25

Matrix: Water

Method: 537.1 DW - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA (GenX)	ND		0.0020	0.00050	ug/L		03/18/20 04:47	03/22/20 07:05	1
DONA	ND		0.0020	0.00050	ug/L		03/18/20 04:47	03/22/20 07:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFHxA	98		70 - 130				03/18/20 04:47	03/22/20 07:05	1
13C2 PFDA	98		70 - 130				03/18/20 04:47	03/22/20 07:05	1
d5-NEtFOSAA	92		70 - 130				03/18/20 04:47	03/22/20 07:05	1
13C3 HFPO-DA	94		70 - 130				03/18/20 04:47	03/22/20 07:05	1

Client Sample ID: AN-26-DW

Date Collected: 03/12/20 09:50

Date Received: 03/14/20 09:20

Lab Sample ID: 320-59495-26

Matrix: Water

Method: 537.1 DW - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	0.00056	J	0.0018	0.00046	ug/L		03/18/20 04:47	03/22/20 07:13	1
Perfluoroheptanoic acid (PFHpA)	ND		0.0018	0.00046	ug/L		03/18/20 04:47	03/22/20 07:13	1
Perfluorooctanoic acid (PFOA)	ND		0.0018	0.00046	ug/L		03/18/20 04:47	03/22/20 07:13	1
Perfluorononanoic acid (PFNA)	ND		0.0018	0.00046	ug/L		03/18/20 04:47	03/22/20 07:13	1
Perfluorodecanoic acid (PFDA)	ND		0.0018	0.00046	ug/L		03/18/20 04:47	03/22/20 07:13	1
Perfluoroundecanoic acid (PFUnA)	ND		0.0018	0.00046	ug/L		03/18/20 04:47	03/22/20 07:13	1
Perfluorododecanoic acid (PFDoA)	ND		0.0018	0.00046	ug/L		03/18/20 04:47	03/22/20 07:13	1
Perfluorotridecanoic acid (PFTriA)	ND		0.0018	0.00046	ug/L		03/18/20 04:47	03/22/20 07:13	1
Perfluorotetradecanoic acid (PFTeA)	ND		0.0018	0.00046	ug/L		03/18/20 04:47	03/22/20 07:13	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.0018	0.00046	ug/L		03/18/20 04:47	03/22/20 07:13	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.0018	0.00046	ug/L		03/18/20 04:47	03/22/20 07:13	1
Perfluorooctanesulfonic acid (PFOS)	ND		0.0018	0.00046	ug/L		03/18/20 04:47	03/22/20 07:13	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.0018	0.00046	ug/L		03/18/20 04:47	03/22/20 07:13	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.0018	0.00046	ug/L		03/18/20 04:47	03/22/20 07:13	1
F-53B Major	ND		0.0018	0.00046	ug/L		03/18/20 04:47	03/22/20 07:13	1
F-53B Minor	ND		0.0018	0.00046	ug/L		03/18/20 04:47	03/22/20 07:13	1
HFPO-DA (GenX)	ND		0.0018	0.00046	ug/L		03/18/20 04:47	03/22/20 07:13	1
DONA	ND		0.0018	0.00046	ug/L		03/18/20 04:47	03/22/20 07:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFHxA	95		70 - 130				03/18/20 04:47	03/22/20 07:13	1
13C2 PFDA	100		70 - 130				03/18/20 04:47	03/22/20 07:13	1
d5-NEtFOSAA	94		70 - 130				03/18/20 04:47	03/22/20 07:13	1
13C3 HFPO-DA	98		70 - 130				03/18/20 04:47	03/22/20 07:13	1

Client Sample ID: AN-27-DW

Date Collected: 03/12/20 10:14

Date Received: 03/14/20 09:20

Lab Sample ID: 320-59495-27

Matrix: Water

Method: 537.1 DW - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	ND		0.0020	0.00049	ug/L		03/18/20 04:47	03/22/20 07:21	1
Perfluoroheptanoic acid (PFHpA)	ND		0.0020	0.00049	ug/L		03/18/20 04:47	03/22/20 07:21	1
Perfluorooctanoic acid (PFOA)	ND		0.0020	0.00049	ug/L		03/18/20 04:47	03/22/20 07:21	1

Eurofins TestAmerica, Sacramento

Client Sample Results

Client: Alaska Department of Env. Conservation
Project/Site: PFAS, Alaska Drinking Water

Job ID: 320-59495-1

Client Sample ID: AN-27-DW

Date Collected: 03/12/20 10:14

Date Received: 03/14/20 09:20

Lab Sample ID: 320-59495-27

Matrix: Water

Method: 537.1 DW - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorononanoic acid (PFNA)	ND		0.0020	0.00049	ug/L		03/18/20 04:47	03/22/20 07:21	1
Perfluorodecanoic acid (PFDA)	ND		0.0020	0.00049	ug/L		03/18/20 04:47	03/22/20 07:21	1
Perfluoroundecanoic acid (PFUnA)	ND		0.0020	0.00049	ug/L		03/18/20 04:47	03/22/20 07:21	1
Perfluorododecanoic acid (PFDoA)	ND		0.0020	0.00049	ug/L		03/18/20 04:47	03/22/20 07:21	1
Perfluorotridecanoic acid (PFTriA)	ND		0.0020	0.00049	ug/L		03/18/20 04:47	03/22/20 07:21	1
Perfluorotetradecanoic acid (PFTeA)	ND		0.0020	0.00049	ug/L		03/18/20 04:47	03/22/20 07:21	1
Perfluorobutanesulfonic acid (PFBS)	0.0014	J	0.0020	0.00049	ug/L		03/18/20 04:47	03/22/20 07:21	1
Perfluorohexanesulfonic acid (PFHxS)	0.0017	J	0.0020	0.00049	ug/L		03/18/20 04:47	03/22/20 07:21	1
Perfluorooctanesulfonic acid (PFOS)	ND		0.0020	0.00049	ug/L		03/18/20 04:47	03/22/20 07:21	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.0020	0.00049	ug/L		03/18/20 04:47	03/22/20 07:21	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.0020	0.00049	ug/L		03/18/20 04:47	03/22/20 07:21	1
F-53B Major	ND		0.0020	0.00049	ug/L		03/18/20 04:47	03/22/20 07:21	1
F-53B Minor	ND		0.0020	0.00049	ug/L		03/18/20 04:47	03/22/20 07:21	1
HFPO-DA (GenX)	ND		0.0020	0.00049	ug/L		03/18/20 04:47	03/22/20 07:21	1
DONA	ND		0.0020	0.00049	ug/L		03/18/20 04:47	03/22/20 07:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFHxA	103		70 - 130				03/18/20 04:47	03/22/20 07:21	1
13C2 PFDA	103		70 - 130				03/18/20 04:47	03/22/20 07:21	1
d5-NEtFOSAA	89		70 - 130				03/18/20 04:47	03/22/20 07:21	1
13C3 HFPO-DA	99		70 - 130				03/18/20 04:47	03/22/20 07:21	1

Client Sample ID: AN-28-DW

Date Collected: 03/12/20 10:29

Date Received: 03/14/20 09:20

Lab Sample ID: 320-59495-28

Matrix: Water

Method: 537.1 DW - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	ND		0.0020	0.00050	ug/L		03/18/20 04:47	03/22/20 08:07	1
Perfluoroheptanoic acid (PFHpA)	ND		0.0020	0.00050	ug/L		03/18/20 04:47	03/22/20 08:07	1
Perfluorooctanoic acid (PFOA)	ND		0.0020	0.00050	ug/L		03/18/20 04:47	03/22/20 08:07	1
Perfluorononanoic acid (PFNA)	ND		0.0020	0.00050	ug/L		03/18/20 04:47	03/22/20 08:07	1
Perfluorodecanoic acid (PFDA)	ND		0.0020	0.00050	ug/L		03/18/20 04:47	03/22/20 08:07	1
Perfluoroundecanoic acid (PFUnA)	ND		0.0020	0.00050	ug/L		03/18/20 04:47	03/22/20 08:07	1
Perfluorododecanoic acid (PFDoA)	ND		0.0020	0.00050	ug/L		03/18/20 04:47	03/22/20 08:07	1
Perfluorotridecanoic acid (PFTriA)	ND		0.0020	0.00050	ug/L		03/18/20 04:47	03/22/20 08:07	1
Perfluorotetradecanoic acid (PFTeA)	ND		0.0020	0.00050	ug/L		03/18/20 04:47	03/22/20 08:07	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.0020	0.00050	ug/L		03/18/20 04:47	03/22/20 08:07	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.0020	0.00050	ug/L		03/18/20 04:47	03/22/20 08:07	1
Perfluorooctanesulfonic acid (PFOS)	ND		0.0020	0.00050	ug/L		03/18/20 04:47	03/22/20 08:07	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.0020	0.00050	ug/L		03/18/20 04:47	03/22/20 08:07	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.0020	0.00050	ug/L		03/18/20 04:47	03/22/20 08:07	1
F-53B Major	ND		0.0020	0.00050	ug/L		03/18/20 04:47	03/22/20 08:07	1
F-53B Minor	ND		0.0020	0.00050	ug/L		03/18/20 04:47	03/22/20 08:07	1
HFPO-DA (GenX)	ND		0.0020	0.00050	ug/L		03/18/20 04:47	03/22/20 08:07	1
DONA	ND		0.0020	0.00050	ug/L		03/18/20 04:47	03/22/20 08:07	1

Eurofins TestAmerica, Sacramento

Client Sample Results

Client: Alaska Department of Env. Conservation
Project/Site: PFAS, Alaska Drinking Water

Job ID: 320-59495-1

Client Sample ID: AN-28-DW

Date Collected: 03/12/20 10:29

Date Received: 03/14/20 09:20

Lab Sample ID: 320-59495-28

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	97		70 - 130	03/18/20 04:47	03/22/20 08:07	1
13C2 PFDA	97		70 - 130	03/18/20 04:47	03/22/20 08:07	1
d5-NEtFOSAA	93		70 - 130	03/18/20 04:47	03/22/20 08:07	1
13C3 HFPO-DA	98		70 - 130	03/18/20 04:47	03/22/20 08:07	1

Client Sample ID: AN-29-DW

Date Collected: 03/12/20 10:59

Date Received: 03/14/20 09:20

Lab Sample ID: 320-59495-29

Matrix: Water

Method: 537.1 DW - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	0.00056	J	0.0019	0.00048	ug/L		03/18/20 04:47	03/22/20 08:14	1
Perfluoroheptanoic acid (PFHpA)	ND		0.0019	0.00048	ug/L		03/18/20 04:47	03/22/20 08:14	1
Perfluorooctanoic acid (PFOA)	ND		0.0019	0.00048	ug/L		03/18/20 04:47	03/22/20 08:14	1
Perfluorononanoic acid (PFNA)	ND		0.0019	0.00048	ug/L		03/18/20 04:47	03/22/20 08:14	1
Perfluorodecanoic acid (PFDA)	ND		0.0019	0.00048	ug/L		03/18/20 04:47	03/22/20 08:14	1
Perfluoroundecanoic acid (PFUnA)	ND		0.0019	0.00048	ug/L		03/18/20 04:47	03/22/20 08:14	1
Perfluorododecanoic acid (PFDoA)	ND		0.0019	0.00048	ug/L		03/18/20 04:47	03/22/20 08:14	1
Perfluorotridecanoic acid (PFTriA)	ND		0.0019	0.00048	ug/L		03/18/20 04:47	03/22/20 08:14	1
Perfluorotetradecanoic acid (PFTeA)	ND		0.0019	0.00048	ug/L		03/18/20 04:47	03/22/20 08:14	1
Perfluorobutanesulfonic acid (PFBS)	0.0018	J	0.0019	0.00048	ug/L		03/18/20 04:47	03/22/20 08:14	1
Perfluorohexanesulfonic acid (PFHxS)	0.0042		0.0019	0.00048	ug/L		03/18/20 04:47	03/22/20 08:14	1
Perfluorooctanesulfonic acid (PFOS)	0.0011	J	0.0019	0.00048	ug/L		03/18/20 04:47	03/22/20 08:14	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.0019	0.00048	ug/L		03/18/20 04:47	03/22/20 08:14	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.0019	0.00048	ug/L		03/18/20 04:47	03/22/20 08:14	1
F-53B Major	ND		0.0019	0.00048	ug/L		03/18/20 04:47	03/22/20 08:14	1
F-53B Minor	ND		0.0019	0.00048	ug/L		03/18/20 04:47	03/22/20 08:14	1
HFPO-DA (GenX)	ND		0.0019	0.00048	ug/L		03/18/20 04:47	03/22/20 08:14	1
DONA	ND		0.0019	0.00048	ug/L		03/18/20 04:47	03/22/20 08:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	91		70 - 130	03/18/20 04:47	03/22/20 08:14	1
13C2 PFDA	95		70 - 130	03/18/20 04:47	03/22/20 08:14	1
d5-NEtFOSAA	98		70 - 130	03/18/20 04:47	03/22/20 08:14	1
13C3 HFPO-DA	93		70 - 130	03/18/20 04:47	03/22/20 08:14	1

Client Sample ID: AN-30-DW

Date Collected: 03/12/20 11:30

Date Received: 03/14/20 09:20

Lab Sample ID: 320-59495-30

Matrix: Water

Method: 537.1 DW - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	0.00088	J	0.0019	0.00047	ug/L		03/18/20 04:47	03/22/20 08:22	1
Perfluoroheptanoic acid (PFHpA)	ND		0.0019	0.00047	ug/L		03/18/20 04:47	03/22/20 08:22	1
Perfluorooctanoic acid (PFOA)	ND		0.0019	0.00047	ug/L		03/18/20 04:47	03/22/20 08:22	1
Perfluorononanoic acid (PFNA)	ND		0.0019	0.00047	ug/L		03/18/20 04:47	03/22/20 08:22	1
Perfluorodecanoic acid (PFDA)	ND		0.0019	0.00047	ug/L		03/18/20 04:47	03/22/20 08:22	1

Eurofins TestAmerica, Sacramento

Client Sample Results

Client: Alaska Department of Env. Conservation
Project/Site: PFAS, Alaska Drinking Water

Job ID: 320-59495-1

Client Sample ID: AN-30-DW

Lab Sample ID: 320-59495-30

Date Collected: 03/12/20 11:30

Matrix: Water

Date Received: 03/14/20 09:20

Method: 537.1 DW - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoroundecanoic acid (PFUnA)	ND		0.0019	0.00047	ug/L		03/18/20 04:47	03/22/20 08:22	1
Perfluorododecanoic acid (PFDoA)	ND		0.0019	0.00047	ug/L		03/18/20 04:47	03/22/20 08:22	1
Perfluorotridecanoic acid (PFTriA)	ND		0.0019	0.00047	ug/L		03/18/20 04:47	03/22/20 08:22	1
Perfluorotetradecanoic acid (PFTeA)	ND		0.0019	0.00047	ug/L		03/18/20 04:47	03/22/20 08:22	1
Perfluorobutanesulfonic acid (PFBS)	0.0020		0.0019	0.00047	ug/L		03/18/20 04:47	03/22/20 08:22	1
Perfluorohexanesulfonic acid (PFHxS)	0.0037		0.0019	0.00047	ug/L		03/18/20 04:47	03/22/20 08:22	1
Perfluorooctanesulfonic acid (PFOS)	ND		0.0019	0.00047	ug/L		03/18/20 04:47	03/22/20 08:22	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.0019	0.00047	ug/L		03/18/20 04:47	03/22/20 08:22	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.0019	0.00047	ug/L		03/18/20 04:47	03/22/20 08:22	1
F-53B Major	ND		0.0019	0.00047	ug/L		03/18/20 04:47	03/22/20 08:22	1
F-53B Minor	ND		0.0019	0.00047	ug/L		03/18/20 04:47	03/22/20 08:22	1
HFPO-DA (GenX)	ND		0.0019	0.00047	ug/L		03/18/20 04:47	03/22/20 08:22	1
DONA	ND		0.0019	0.00047	ug/L		03/18/20 04:47	03/22/20 08:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	98		70 - 130	03/18/20 04:47	03/22/20 08:22	1
13C2 PFDA	103		70 - 130	03/18/20 04:47	03/22/20 08:22	1
d5-NEtFOSAA	96		70 - 130	03/18/20 04:47	03/22/20 08:22	1
13C3 HFPO-DA	98		70 - 130	03/18/20 04:47	03/22/20 08:22	1

Client Sample ID: AN-31-DW

Lab Sample ID: 320-59495-31

Date Collected: 03/12/20 14:30

Matrix: Water

Date Received: 03/14/20 09:20

Method: 537.1 DW - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	ND		0.0019	0.00048	ug/L		03/18/20 04:47	03/22/20 08:30	1
Perfluoroheptanoic acid (PFHpA)	ND		0.0019	0.00048	ug/L		03/18/20 04:47	03/22/20 08:30	1
Perfluorooctanoic acid (PFOA)	ND		0.0019	0.00048	ug/L		03/18/20 04:47	03/22/20 08:30	1
Perfluorononanoic acid (PFNA)	ND		0.0019	0.00048	ug/L		03/18/20 04:47	03/22/20 08:30	1
Perfluorodecanoic acid (PFDA)	ND		0.0019	0.00048	ug/L		03/18/20 04:47	03/22/20 08:30	1
Perfluoroundecanoic acid (PFUnA)	ND		0.0019	0.00048	ug/L		03/18/20 04:47	03/22/20 08:30	1
Perfluorododecanoic acid (PFDoA)	ND		0.0019	0.00048	ug/L		03/18/20 04:47	03/22/20 08:30	1
Perfluorotridecanoic acid (PFTriA)	ND		0.0019	0.00048	ug/L		03/18/20 04:47	03/22/20 08:30	1
Perfluorotetradecanoic acid (PFTeA)	ND		0.0019	0.00048	ug/L		03/18/20 04:47	03/22/20 08:30	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.0019	0.00048	ug/L		03/18/20 04:47	03/22/20 08:30	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.0019	0.00048	ug/L		03/18/20 04:47	03/22/20 08:30	1
Perfluorooctanesulfonic acid (PFOS)	ND		0.0019	0.00048	ug/L		03/18/20 04:47	03/22/20 08:30	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.0019	0.00048	ug/L		03/18/20 04:47	03/22/20 08:30	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.0019	0.00048	ug/L		03/18/20 04:47	03/22/20 08:30	1
F-53B Major	ND		0.0019	0.00048	ug/L		03/18/20 04:47	03/22/20 08:30	1
F-53B Minor	ND		0.0019	0.00048	ug/L		03/18/20 04:47	03/22/20 08:30	1
HFPO-DA (GenX)	ND		0.0019	0.00048	ug/L		03/18/20 04:47	03/22/20 08:30	1
DONA	ND		0.0019	0.00048	ug/L		03/18/20 04:47	03/22/20 08:30	1

Eurofins TestAmerica, Sacramento

Client Sample Results

Client: Alaska Department of Env. Conservation
Project/Site: PFAS, Alaska Drinking Water

Job ID: 320-59495-1

Client Sample ID: AN-31-DW

Date Collected: 03/12/20 14:30

Date Received: 03/14/20 09:20

Lab Sample ID: 320-59495-31

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	96		70 - 130	03/18/20 04:47	03/22/20 08:30	1
13C2 PFDA	95		70 - 130	03/18/20 04:47	03/22/20 08:30	1
d5-NEtFOSAA	94		70 - 130	03/18/20 04:47	03/22/20 08:30	1
13C3 HFPO-DA	93		70 - 130	03/18/20 04:47	03/22/20 08:30	1

Client Sample ID: AN-32-DW

Date Collected: 03/12/20 14:30

Date Received: 03/14/20 09:20

Lab Sample ID: 320-59495-32

Matrix: Water

Method: 537.1 DW - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	ND		0.0018	0.00046	ug/L		03/18/20 04:47	03/22/20 08:38	1
Perfluoroheptanoic acid (PFHpA)	ND		0.0018	0.00046	ug/L		03/18/20 04:47	03/22/20 08:38	1
Perfluorooctanoic acid (PFOA)	ND		0.0018	0.00046	ug/L		03/18/20 04:47	03/22/20 08:38	1
Perfluorononanoic acid (PFNA)	ND		0.0018	0.00046	ug/L		03/18/20 04:47	03/22/20 08:38	1
Perfluorodecanoic acid (PFDA)	ND		0.0018	0.00046	ug/L		03/18/20 04:47	03/22/20 08:38	1
Perfluoroundecanoic acid (PFUnA)	ND		0.0018	0.00046	ug/L		03/18/20 04:47	03/22/20 08:38	1
Perfluorododecanoic acid (PFDoA)	ND		0.0018	0.00046	ug/L		03/18/20 04:47	03/22/20 08:38	1
Perfluorotridecanoic acid (PFTriA)	ND		0.0018	0.00046	ug/L		03/18/20 04:47	03/22/20 08:38	1
Perfluorotetradecanoic acid (PFTeA)	ND		0.0018	0.00046	ug/L		03/18/20 04:47	03/22/20 08:38	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.0018	0.00046	ug/L		03/18/20 04:47	03/22/20 08:38	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.0018	0.00046	ug/L		03/18/20 04:47	03/22/20 08:38	1
Perfluorooctanesulfonic acid (PFOS)	ND		0.0018	0.00046	ug/L		03/18/20 04:47	03/22/20 08:38	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.0018	0.00046	ug/L		03/18/20 04:47	03/22/20 08:38	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.0018	0.00046	ug/L		03/18/20 04:47	03/22/20 08:38	1
F-53B Major	ND		0.0018	0.00046	ug/L		03/18/20 04:47	03/22/20 08:38	1
F-53B Minor	ND		0.0018	0.00046	ug/L		03/18/20 04:47	03/22/20 08:38	1
HFPO-DA (GenX)	ND		0.0018	0.00046	ug/L		03/18/20 04:47	03/22/20 08:38	1
DONA	ND		0.0018	0.00046	ug/L		03/18/20 04:47	03/22/20 08:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	97		70 - 130	03/18/20 04:47	03/22/20 08:38	1
13C2 PFDA	95		70 - 130	03/18/20 04:47	03/22/20 08:38	1
d5-NEtFOSAA	92		70 - 130	03/18/20 04:47	03/22/20 08:38	1
13C3 HFPO-DA	92		70 - 130	03/18/20 04:47	03/22/20 08:38	1

Surrogate Summary

Client: Alaska Department of Env. Conservation
Project/Site: PFAS, Alaska Drinking Water

Job ID: 320-59495-1

Method: 537.1 DW - Perfluorinated Alkyl Acids (LC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		PFHxA (70-130)	PFDA (70-130)	-NEtFOS/ (70-130)	HFPODA (70-130)
320-59495-1	AN-01-DW	101	100	95	101
320-59495-2	AN-02-DW	97	104	102	98
320-59495-3	AN-03-DW	100	100	98	98
320-59495-4	AN-04-DW	101	101	87	99
320-59495-5	AN-05-DW	106	113	100	104
320-59495-6	AN-06-DW	107	103	102	105
320-59495-7	AN-07-DW	101	98	94	105
320-59495-8	AN-08-DW	99	102	89	97
320-59495-9	AN-09-DW	108	107	107	106
320-59495-10	AN-10-DW	104	105	102	100
320-59495-11	AN-11-DW	115	116	101	113
320-59495-12	AN-12-DW	104	105	104	105
320-59495-13	AN-13-DW	104	100	96	103
320-59495-14	AN-14-DW	106	107	106	105
320-59495-15	AN-15-DW	107	107	98	107
320-59495-16	AN-16-DW	107	110	106	107
320-59495-17	AN-17-DW	101	106	104	103
320-59495-18	AN-18-DW	95	101	97	97
320-59495-19	AN-19-DW	103	104	96	104
320-59495-20	AN-20-DW	106	104	96	106
320-59495-21	AN-21-DW	97	98	83	99
320-59495-22	AN-22-DW	97	103	100	96
320-59495-23	AN-23-DW	97	90	83	96
320-59495-24	AN-24-DW	94	97	91	92
320-59495-25	AN-25-DW	98	98	92	94
320-59495-26	AN-26-DW	95	100	94	98
320-59495-27	AN-27-DW	103	103	89	99
320-59495-28	AN-28-DW	97	97	93	98
320-59495-29	AN-29-DW	91	95	98	93
320-59495-30	AN-30-DW	98	103	96	98
320-59495-31	AN-31-DW	96	95	94	93
320-59495-32	AN-32-DW	97	95	92	92
LCS 320-365491/2-A	Lab Control Sample	101	102	94	103
LCS 320-365571/2-A	Lab Control Sample	96	90	92	91
LCSD 320-365491/3-A	Lab Control Sample Dup	101	104	100	105
LCSD 320-365571/3-A	Lab Control Sample Dup	94	97	93	96
LLCS 320-365500/2-A	Lab Control Sample	106	109	103	103
LLCSD 320-365500/3-A	Lab Control Sample Dup	96	104	96	101
MB 320-365491/1-A	Method Blank	101	103	104	101
MB 320-365500/1-A	Method Blank	100	107	102	100
MB 320-365571/1-A	Method Blank	96	97	97	94

Surrogate Legend

PFHxA = 13C2 PFHxA

PFDA = 13C2 PFDA

d5-NEtFOSAA = d5-NEtFOSAA

HFPODA = 13C3 HFPO-DA

QC Sample Results

Client: Alaska Department of Env. Conservation
Project/Site: PFAS, Alaska Drinking Water

Job ID: 320-59495-1

Method: 537.1 DW - Perfluorinated Alkyl Acids (LC/MS)

Lab Sample ID: MB 320-365491/1-A

Matrix: Water

Analysis Batch: 366616

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 365491

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	ND		0.0020	0.00050	ug/L		03/18/20 04:10	03/22/20 04:00	1
Perfluoroheptanoic acid (PFHpA)	ND		0.0020	0.00050	ug/L		03/18/20 04:10	03/22/20 04:00	1
Perfluorooctanoic acid (PFOA)	ND		0.0020	0.00050	ug/L		03/18/20 04:10	03/22/20 04:00	1
Perfluorononanoic acid (PFNA)	ND		0.0020	0.00050	ug/L		03/18/20 04:10	03/22/20 04:00	1
Perfluorodecanoic acid (PFDA)	ND		0.0020	0.00050	ug/L		03/18/20 04:10	03/22/20 04:00	1
Perfluoroundecanoic acid (PFUnA)	ND		0.0020	0.00050	ug/L		03/18/20 04:10	03/22/20 04:00	1
Perfluorododecanoic acid (PFDoA)	ND		0.0020	0.00050	ug/L		03/18/20 04:10	03/22/20 04:00	1
Perfluorotridecanoic acid (PFTriA)	ND		0.0020	0.00050	ug/L		03/18/20 04:10	03/22/20 04:00	1
Perfluorotetradecanoic acid (PFTeA)	ND		0.0020	0.00050	ug/L		03/18/20 04:10	03/22/20 04:00	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.0020	0.00050	ug/L		03/18/20 04:10	03/22/20 04:00	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.0020	0.00050	ug/L		03/18/20 04:10	03/22/20 04:00	1
Perfluorooctanesulfonic acid (PFOS)	ND		0.0020	0.00050	ug/L		03/18/20 04:10	03/22/20 04:00	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.0020	0.00050	ug/L		03/18/20 04:10	03/22/20 04:00	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.0020	0.00050	ug/L		03/18/20 04:10	03/22/20 04:00	1
F-53B Major	ND		0.0020	0.00050	ug/L		03/18/20 04:10	03/22/20 04:00	1
F-53B Minor	ND		0.0020	0.00050	ug/L		03/18/20 04:10	03/22/20 04:00	1
HFPO-DA (GenX)	ND		0.0020	0.00050	ug/L		03/18/20 04:10	03/22/20 04:00	1
DONA	ND		0.0020	0.00050	ug/L		03/18/20 04:10	03/22/20 04:00	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	101		70 - 130	03/18/20 04:10	03/22/20 04:00	1
13C2 PFDA	103		70 - 130	03/18/20 04:10	03/22/20 04:00	1
d5-NEtFOSAA	104		70 - 130	03/18/20 04:10	03/22/20 04:00	1
13C3 HFPO-DA	101		70 - 130	03/18/20 04:10	03/22/20 04:00	1

Lab Sample ID: LCS 320-365491/2-A

Matrix: Water

Analysis Batch: 366616

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 365491

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorohexanoic acid (PFHxA)	0.100	0.0969		ug/L		97	70 - 130
Perfluoroheptanoic acid (PFHpA)	0.100	0.106		ug/L		106	70 - 130
Perfluorooctanoic acid (PFOA)	0.100	0.0991		ug/L		99	70 - 130
Perfluorononanoic acid (PFNA)	0.100	0.0993		ug/L		99	70 - 130
Perfluorodecanoic acid (PFDA)	0.100	0.108		ug/L		108	70 - 130
Perfluoroundecanoic acid (PFUnA)	0.100	0.0967		ug/L		97	70 - 130
Perfluorododecanoic acid (PFDoA)	0.100	0.0964		ug/L		96	70 - 130
Perfluorotridecanoic acid (PFTriA)	0.100	0.0957		ug/L		96	70 - 130
Perfluorotetradecanoic acid (PFTeA)	0.100	0.0977		ug/L		98	70 - 130
Perfluorobutanesulfonic acid (PFBS)	0.0884	0.0880		ug/L		99	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	0.0910	0.0925		ug/L		102	70 - 130

Eurofins TestAmerica, Sacramento

QC Sample Results

Client: Alaska Department of Env. Conservation
Project/Site: PFAS, Alaska Drinking Water

Job ID: 320-59495-1

Method: 537.1 DW - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Lab Sample ID: LCS 320-365491/2-A

Matrix: Water

Analysis Batch: 366616

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 365491

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorooctanesulfonic acid (PFOS)	0.0928	0.0888		ug/L		96	70 - 130
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.100	0.0918		ug/L		92	70 - 130
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.100	0.0937		ug/L		94	70 - 130
F-53B Major	0.0932	0.0948		ug/L		102	70 - 130
F-53B Minor	0.0942	0.0914		ug/L		97	70 - 130
HFPO-DA (GenX)	0.100	0.105		ug/L		105	70 - 130
DONA	0.0942	0.0971		ug/L		103	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
13C2 PFHxA	101		70 - 130
13C2 PFDA	102		70 - 130
d5-NEtFOSAA	94		70 - 130
13C3 HFPO-DA	103		70 - 130

Lab Sample ID: LCSD 320-365491/3-A

Matrix: Water

Analysis Batch: 366616

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 365491

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Perfluorohexanoic acid (PFHxA)	0.100	0.0977		ug/L		98	70 - 130	1	30
Perfluoroheptanoic acid (PFHpA)	0.100	0.105		ug/L		105	70 - 130	1	30
Perfluorooctanoic acid (PFOA)	0.100	0.0991		ug/L		99	70 - 130	0	30
Perfluorononanoic acid (PFNA)	0.100	0.0986		ug/L		99	70 - 130	1	30
Perfluorodecanoic acid (PFDA)	0.100	0.111		ug/L		111	70 - 130	2	30
Perfluoroundecanoic acid (PFUnA)	0.100	0.0982		ug/L		98	70 - 130	2	30
Perfluorododecanoic acid (PFDoA)	0.100	0.0962		ug/L		96	70 - 130	0	30
Perfluorotridecanoic acid (PFTriA)	0.100	0.0970		ug/L		97	70 - 130	1	30
Perfluorotetradecanoic acid (PFTeA)	0.100	0.0996		ug/L		100	70 - 130	2	30
Perfluorobutanesulfonic acid (PFBS)	0.0884	0.0909		ug/L		103	70 - 130	3	30
Perfluorohexanesulfonic acid (PFHxS)	0.0910	0.0919		ug/L		101	70 - 130	1	30
Perfluorooctanesulfonic acid (PFOS)	0.0928	0.0900		ug/L		97	70 - 130	1	30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.100	0.0946		ug/L		95	70 - 130	3	30
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.100	0.0934		ug/L		93	70 - 130	0	30
F-53B Major	0.0932	0.0987		ug/L		106	70 - 130	4	30
F-53B Minor	0.0942	0.0947		ug/L		100	70 - 130	3	30
HFPO-DA (GenX)	0.100	0.104		ug/L		104	70 - 130	1	30
DONA	0.0942	0.0968		ug/L		103	70 - 130	0	30

Eurofins TestAmerica, Sacramento

QC Sample Results

Client: Alaska Department of Env. Conservation
Project/Site: PFAS, Alaska Drinking Water

Job ID: 320-59495-1

Method: 537.1 DW - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Lab Sample ID: LCSD 320-365491/3-A

Matrix: Water

Analysis Batch: 366616

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 365491

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
13C2 PFHxA	101		70 - 130
13C2 PFDA	104		70 - 130
d5-NEtFOSAA	100		70 - 130
13C3 HFPO-DA	105		70 - 130

Lab Sample ID: MB 320-365500/1-A

Matrix: Water

Analysis Batch: 366636

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 365500

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	ND		0.0020	0.00050	ug/L		03/18/20 05:03	03/22/20 09:08	1
Perfluoroheptanoic acid (PFHpA)	ND		0.0020	0.00050	ug/L		03/18/20 05:03	03/22/20 09:08	1
Perfluorooctanoic acid (PFOA)	ND		0.0020	0.00050	ug/L		03/18/20 05:03	03/22/20 09:08	1
Perfluorononanoic acid (PFNA)	ND		0.0020	0.00050	ug/L		03/18/20 05:03	03/22/20 09:08	1
Perfluorodecanoic acid (PFDA)	ND		0.0020	0.00050	ug/L		03/18/20 05:03	03/22/20 09:08	1
Perfluoroundecanoic acid (PFUnA)	ND		0.0020	0.00050	ug/L		03/18/20 05:03	03/22/20 09:08	1
Perfluorododecanoic acid (PFDoA)	ND		0.0020	0.00050	ug/L		03/18/20 05:03	03/22/20 09:08	1
Perfluorotridecanoic acid (PFTriA)	ND		0.0020	0.00050	ug/L		03/18/20 05:03	03/22/20 09:08	1
Perfluorotetradecanoic acid (PFTeA)	ND		0.0020	0.00050	ug/L		03/18/20 05:03	03/22/20 09:08	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.0020	0.00050	ug/L		03/18/20 05:03	03/22/20 09:08	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.0020	0.00050	ug/L		03/18/20 05:03	03/22/20 09:08	1
Perfluorooctanesulfonic acid (PFOS)	ND		0.0020	0.00050	ug/L		03/18/20 05:03	03/22/20 09:08	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.0020	0.00050	ug/L		03/18/20 05:03	03/22/20 09:08	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.0020	0.00050	ug/L		03/18/20 05:03	03/22/20 09:08	1
F-53B Major	ND		0.0020	0.00050	ug/L		03/18/20 05:03	03/22/20 09:08	1
F-53B Minor	ND		0.0020	0.00050	ug/L		03/18/20 05:03	03/22/20 09:08	1
HFPO-DA (GenX)	ND		0.0020	0.00050	ug/L		03/18/20 05:03	03/22/20 09:08	1
DONA	ND		0.0020	0.00050	ug/L		03/18/20 05:03	03/22/20 09:08	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	100		70 - 130	03/18/20 05:03	03/22/20 09:08	1
13C2 PFDA	107		70 - 130	03/18/20 05:03	03/22/20 09:08	1
d5-NEtFOSAA	102		70 - 130	03/18/20 05:03	03/22/20 09:08	1
13C3 HFPO-DA	100		70 - 130	03/18/20 05:03	03/22/20 09:08	1

Lab Sample ID: LLCS 320-365500/2-A

Matrix: Water

Analysis Batch: 366636

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 365500

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorohexanoic acid (PFHxA)	0.00400	0.00426		ug/L		107	50 - 150
Perfluoroheptanoic acid (PFHpA)	0.00400	0.00422		ug/L		106	50 - 150
Perfluorooctanoic acid (PFOA)	0.00400	0.00426		ug/L		106	50 - 150
Perfluorononanoic acid (PFNA)	0.00400	0.00404		ug/L		101	50 - 150
Perfluorodecanoic acid (PFDA)	0.00400	0.00435		ug/L		109	50 - 150
Perfluoroundecanoic acid (PFUnA)	0.00400	0.00428		ug/L		107	50 - 150

Eurofins TestAmerica, Sacramento

QC Sample Results

Client: Alaska Department of Env. Conservation
Project/Site: PFAS, Alaska Drinking Water

Job ID: 320-59495-1

Method: 537.1 DW - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Lab Sample ID: LLCS 320-365500/2-A

Matrix: Water

Analysis Batch: 366636

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 365500

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorododecanoic acid (PFDoA)	0.00400	0.00422		ug/L		106	50 - 150
Perfluorotridecanoic acid (PFTriA)	0.00400	0.00434		ug/L		109	50 - 150
Perfluorotetradecanoic acid (PFTeA)	0.00400	0.00438		ug/L		110	50 - 150
Perfluorobutanesulfonic acid (PFBS)	0.00354	0.00356		ug/L		101	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	0.00364	0.00428		ug/L		118	50 - 150
Perfluorooctanesulfonic acid (PFOS)	0.00371	0.00540		ug/L		146	50 - 150
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.00400	0.00416		ug/L		104	50 - 150
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.00400	0.00410		ug/L		103	50 - 150
F-53B Major	0.00373	0.00394		ug/L		106	50 - 150
F-53B Minor	0.00377	0.00383		ug/L		102	50 - 150
HFPO-DA (GenX)	0.00400	0.00414		ug/L		103	50 - 150
DONA	0.00377	0.00406		ug/L		108	50 - 150

Surrogate	LLCS %Recovery	LLCS Qualifier	Limits
13C2 PFHxA	106		70 - 130
13C2 PFDA	109		70 - 130
d5-NEtFOSAA	103		70 - 130
13C3 HFPO-DA	103		70 - 130

Lab Sample ID: LLCSD 320-365500/3-A

Matrix: Water

Analysis Batch: 366636

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 365500

Analyte	Spike Added	LLCSD Result	LLCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorohexanoic acid (PFHxA)	0.00400	0.00405		ug/L		101	50 - 150	5	50
Perfluoroheptanoic acid (PFHpA)	0.00400	0.00431		ug/L		108	50 - 150	2	50
Perfluorooctanoic acid (PFOA)	0.00400	0.00401		ug/L		100	50 - 150	6	50
Perfluorononanoic acid (PFNA)	0.00400	0.00404		ug/L		101	50 - 150	0.1	50
Perfluorodecanoic acid (PFDA)	0.00400	0.00409		ug/L		102	50 - 150	6	50
Perfluoroundecanoic acid (PFUnA)	0.00400	0.00416		ug/L		104	50 - 150	3	50
Perfluorododecanoic acid (PFDoA)	0.00400	0.00439		ug/L		110	50 - 150	4	50
Perfluorotridecanoic acid (PFTriA)	0.00400	0.00430		ug/L		107	50 - 150	1	50
Perfluorotetradecanoic acid (PFTeA)	0.00400	0.00417		ug/L		104	50 - 150	5	50
Perfluorobutanesulfonic acid (PFBS)	0.00354	0.00330		ug/L		93	50 - 150	7	50
Perfluorohexanesulfonic acid (PFHxS)	0.00364	0.00342		ug/L		94	50 - 150	22	50
Perfluorooctanesulfonic acid (PFOS)	0.00371	0.00361		ug/L		97	50 - 150	40	50

Eurofins TestAmerica, Sacramento

QC Sample Results

Client: Alaska Department of Env. Conservation
Project/Site: PFAS, Alaska Drinking Water

Job ID: 320-59495-1

Method: 537.1 DW - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Lab Sample ID: LLCSD 320-365500/3-A

Matrix: Water

Analysis Batch: 366636

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 365500

Analyte	Spike Added	LLCSD Result	LLCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.00400	0.00419		ug/L		105	50 - 150	0.7	50
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.00400	0.00401		ug/L		100	50 - 150	2	50
F-53B Major	0.00373	0.00374		ug/L		100	50 - 150	5	50
F-53B Minor	0.00377	0.00361		ug/L		96	50 - 150	6	50
HFPO-DA (GenX)	0.00400	0.00447		ug/L		112	50 - 150	8	50
DONA	0.00377	0.00386		ug/L		103	50 - 150	5	50

Surrogate	LLCSD %Recovery	LLCSD Qualifier	LLCSD Limits
13C2 PFHxA	96		70 - 130
13C2 PFDA	104		70 - 130
d5-NEtFOSAA	96		70 - 130
13C3 HFPO-DA	101		70 - 130

Lab Sample ID: MB 320-365571/1-A

Matrix: Water

Analysis Batch: 366632

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 365571

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	ND		0.0020	0.00050	ug/L		03/18/20 04:47	03/22/20 06:27	1
Perfluoroheptanoic acid (PFHpA)	ND		0.0020	0.00050	ug/L		03/18/20 04:47	03/22/20 06:27	1
Perfluorooctanoic acid (PFOA)	ND		0.0020	0.00050	ug/L		03/18/20 04:47	03/22/20 06:27	1
Perfluorononanoic acid (PFNA)	ND		0.0020	0.00050	ug/L		03/18/20 04:47	03/22/20 06:27	1
Perfluorodecanoic acid (PFDA)	ND		0.0020	0.00050	ug/L		03/18/20 04:47	03/22/20 06:27	1
Perfluoroundecanoic acid (PFUnA)	ND		0.0020	0.00050	ug/L		03/18/20 04:47	03/22/20 06:27	1
Perfluorododecanoic acid (PFDoA)	ND		0.0020	0.00050	ug/L		03/18/20 04:47	03/22/20 06:27	1
Perfluorotridecanoic acid (PFTriA)	ND		0.0020	0.00050	ug/L		03/18/20 04:47	03/22/20 06:27	1
Perfluorotetradecanoic acid (PFTeA)	ND		0.0020	0.00050	ug/L		03/18/20 04:47	03/22/20 06:27	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.0020	0.00050	ug/L		03/18/20 04:47	03/22/20 06:27	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.0020	0.00050	ug/L		03/18/20 04:47	03/22/20 06:27	1
Perfluorooctanesulfonic acid (PFOS)	ND		0.0020	0.00050	ug/L		03/18/20 04:47	03/22/20 06:27	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.0020	0.00050	ug/L		03/18/20 04:47	03/22/20 06:27	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.0020	0.00050	ug/L		03/18/20 04:47	03/22/20 06:27	1
F-53B Major	ND		0.0020	0.00050	ug/L		03/18/20 04:47	03/22/20 06:27	1
F-53B Minor	ND		0.0020	0.00050	ug/L		03/18/20 04:47	03/22/20 06:27	1
HFPO-DA (GenX)	ND		0.0020	0.00050	ug/L		03/18/20 04:47	03/22/20 06:27	1
DONA	ND		0.0020	0.00050	ug/L		03/18/20 04:47	03/22/20 06:27	1

Surrogate	MB %Recovery	MB Qualifier	MB Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	96		70 - 130	03/18/20 04:47	03/22/20 06:27	1
13C2 PFDA	97		70 - 130	03/18/20 04:47	03/22/20 06:27	1
d5-NEtFOSAA	97		70 - 130	03/18/20 04:47	03/22/20 06:27	1
13C3 HFPO-DA	94		70 - 130	03/18/20 04:47	03/22/20 06:27	1

Eurofins TestAmerica, Sacramento

QC Sample Results

Client: Alaska Department of Env. Conservation
Project/Site: PFAS, Alaska Drinking Water

Job ID: 320-59495-1

Method: 537.1 DW - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Lab Sample ID: LCS 320-365571/2-A

Matrix: Water

Analysis Batch: 366632

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 365571

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorohexanoic acid (PFHxA)	0.200	0.176		ug/L		88	70 - 130
Perfluoroheptanoic acid (PFHpA)	0.200	0.189		ug/L		94	70 - 130
Perfluorooctanoic acid (PFOA)	0.200	0.187		ug/L		93	70 - 130
Perfluorononanoic acid (PFNA)	0.200	0.178		ug/L		89	70 - 130
Perfluorodecanoic acid (PFDA)	0.200	0.186		ug/L		93	70 - 130
Perfluoroundecanoic acid (PFUnA)	0.200	0.174		ug/L		87	70 - 130
Perfluorododecanoic acid (PFDoA)	0.200	0.179		ug/L		90	70 - 130
Perfluorotridecanoic acid (PFTriA)	0.200	0.176		ug/L		88	70 - 130
Perfluorotetradecanoic acid (PFTeA)	0.200	0.176		ug/L		88	70 - 130
Perfluorobutanesulfonic acid (PFBS)	0.177	0.178	E	ug/L		101	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	0.182	0.191	E	ug/L		105	70 - 130
Perfluorooctanesulfonic acid (PFOS)	0.186	0.182		ug/L		98	70 - 130
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.200	0.189		ug/L		94	70 - 130
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.200	0.184		ug/L		92	70 - 130
F-53B Major	0.186	0.194	E	ug/L		104	70 - 130
F-53B Minor	0.188	0.185		ug/L		98	70 - 130
HFPO-DA (GenX)	0.200	0.191		ug/L		96	70 - 130
DONA	0.188	0.167		ug/L		89	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
13C2 PFHxA	96		70 - 130
13C2 PFDA	90		70 - 130
d5-NEtFOSAA	92		70 - 130
13C3 HFPO-DA	91		70 - 130

Lab Sample ID: LCSD 320-365571/3-A

Matrix: Water

Analysis Batch: 366632

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 365571

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorohexanoic acid (PFHxA)	0.200	0.187		ug/L		93	70 - 130	6	30
Perfluoroheptanoic acid (PFHpA)	0.200	0.203	E	ug/L		101	70 - 130	7	30
Perfluorooctanoic acid (PFOA)	0.200	0.193		ug/L		96	70 - 130	3	30
Perfluorononanoic acid (PFNA)	0.200	0.191		ug/L		96	70 - 130	7	30
Perfluorodecanoic acid (PFDA)	0.200	0.216	E	ug/L		108	70 - 130	15	30
Perfluoroundecanoic acid (PFUnA)	0.200	0.185		ug/L		92	70 - 130	6	30
Perfluorododecanoic acid (PFDoA)	0.200	0.192		ug/L		96	70 - 130	7	30
Perfluorotridecanoic acid (PFTriA)	0.200	0.193		ug/L		96	70 - 130	9	30

Eurofins TestAmerica, Sacramento

QC Sample Results

Client: Alaska Department of Env. Conservation
Project/Site: PFAS, Alaska Drinking Water

Job ID: 320-59495-1

Method: 537.1 DW - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Lab Sample ID: LCSD 320-365571/3-A

Matrix: Water

Analysis Batch: 366632

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 365571

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorotetradecanoic acid (PFTeA)	0.200	0.195		ug/L		98	70 - 130	10	30
Perfluorobutanesulfonic acid (PFBS)	0.177	0.176		ug/L		99	70 - 130	1	30
Perfluorohexanesulfonic acid (PFHxS)	0.182	0.189	E	ug/L		104	70 - 130	1	30
Perfluorooctanesulfonic acid (PFOS)	0.186	0.185		ug/L		100	70 - 130	2	30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.200	0.191		ug/L		95	70 - 130	1	30
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.200	0.188		ug/L		94	70 - 130	2	30
F-53B Major	0.186	0.199	E	ug/L		107	70 - 130	3	30
F-53B Minor	0.188	0.188		ug/L		100	70 - 130	1	30
HFPO-DA (GenX)	0.200	0.206	E	ug/L		103	70 - 130	7	30
DONA	0.188	0.180		ug/L		95	70 - 130	7	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
13C2 PFHxA	94		70 - 130
13C2 PFDA	97		70 - 130
d5-NEtFOSAA	93		70 - 130
13C3 HFPO-DA	96		70 - 130

QC Association Summary

Client: Alaska Department of Env. Conservation
Project/Site: PFAS, Alaska Drinking Water

Job ID: 320-59495-1

LCMS

Prep Batch: 365491

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-59495-11	AN-11-DW	Total/NA	Water	537.1 DW	
320-59495-12	AN-12-DW	Total/NA	Water	537.1 DW	
320-59495-13	AN-13-DW	Total/NA	Water	537.1 DW	
320-59495-14	AN-14-DW	Total/NA	Water	537.1 DW	
320-59495-15	AN-15-DW	Total/NA	Water	537.1 DW	
320-59495-16	AN-16-DW	Total/NA	Water	537.1 DW	
320-59495-17	AN-17-DW	Total/NA	Water	537.1 DW	
320-59495-18	AN-18-DW	Total/NA	Water	537.1 DW	
320-59495-19	AN-19-DW	Total/NA	Water	537.1 DW	
320-59495-20	AN-20-DW	Total/NA	Water	537.1 DW	
MB 320-365491/1-A	Method Blank	Total/NA	Water	537.1 DW	
LCS 320-365491/2-A	Lab Control Sample	Total/NA	Water	537.1 DW	
LCSD 320-365491/3-A	Lab Control Sample Dup	Total/NA	Water	537.1 DW	

Prep Batch: 365500

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-59495-1	AN-01-DW	Total/NA	Water	537.1 DW	
320-59495-2	AN-02-DW	Total/NA	Water	537.1 DW	
320-59495-3	AN-03-DW	Total/NA	Water	537.1 DW	
320-59495-4	AN-04-DW	Total/NA	Water	537.1 DW	
320-59495-5	AN-05-DW	Total/NA	Water	537.1 DW	
320-59495-6	AN-06-DW	Total/NA	Water	537.1 DW	
320-59495-7	AN-07-DW	Total/NA	Water	537.1 DW	
320-59495-8	AN-08-DW	Total/NA	Water	537.1 DW	
320-59495-9	AN-09-DW	Total/NA	Water	537.1 DW	
320-59495-10	AN-10-DW	Total/NA	Water	537.1 DW	
MB 320-365500/1-A	Method Blank	Total/NA	Water	537.1 DW	
LLCS 320-365500/2-A	Lab Control Sample	Total/NA	Water	537.1 DW	
LLCSD 320-365500/3-A	Lab Control Sample Dup	Total/NA	Water	537.1 DW	

Prep Batch: 365571

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-59495-21	AN-21-DW	Total/NA	Water	537.1 DW	
320-59495-22	AN-22-DW	Total/NA	Water	537.1 DW	
320-59495-23	AN-23-DW	Total/NA	Water	537.1 DW	
320-59495-24	AN-24-DW	Total/NA	Water	537.1 DW	
320-59495-25	AN-25-DW	Total/NA	Water	537.1 DW	
320-59495-26	AN-26-DW	Total/NA	Water	537.1 DW	
320-59495-27	AN-27-DW	Total/NA	Water	537.1 DW	
320-59495-28	AN-28-DW	Total/NA	Water	537.1 DW	
320-59495-29	AN-29-DW	Total/NA	Water	537.1 DW	
320-59495-30	AN-30-DW	Total/NA	Water	537.1 DW	
320-59495-31	AN-31-DW	Total/NA	Water	537.1 DW	
320-59495-32	AN-32-DW	Total/NA	Water	537.1 DW	
MB 320-365571/1-A	Method Blank	Total/NA	Water	537.1 DW	
LCS 320-365571/2-A	Lab Control Sample	Total/NA	Water	537.1 DW	
LCSD 320-365571/3-A	Lab Control Sample Dup	Total/NA	Water	537.1 DW	

Analysis Batch: 366616

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-59495-11	AN-11-DW	Total/NA	Water	537.1 DW	365491

Eurofins TestAmerica, Sacramento

QC Association Summary

Client: Alaska Department of Env. Conservation
Project/Site: PFAS, Alaska Drinking Water

Job ID: 320-59495-1

LCMS (Continued)

Analysis Batch: 366616 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-59495-12	AN-12-DW	Total/NA	Water	537.1 DW	365491
320-59495-13	AN-13-DW	Total/NA	Water	537.1 DW	365491
320-59495-14	AN-14-DW	Total/NA	Water	537.1 DW	365491
320-59495-15	AN-15-DW	Total/NA	Water	537.1 DW	365491
320-59495-16	AN-16-DW	Total/NA	Water	537.1 DW	365491
320-59495-17	AN-17-DW	Total/NA	Water	537.1 DW	365491
MB 320-365491/1-A	Method Blank	Total/NA	Water	537.1 DW	365491
LCS 320-365491/2-A	Lab Control Sample	Total/NA	Water	537.1 DW	365491
LCSD 320-365491/3-A	Lab Control Sample Dup	Total/NA	Water	537.1 DW	365491

Analysis Batch: 366618

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-59495-18	AN-18-DW	Total/NA	Water	537.1 DW	365491
320-59495-19	AN-19-DW	Total/NA	Water	537.1 DW	365491
320-59495-20	AN-20-DW	Total/NA	Water	537.1 DW	365491

Analysis Batch: 366632

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-59495-21	AN-21-DW	Total/NA	Water	537.1 DW	365571
320-59495-22	AN-22-DW	Total/NA	Water	537.1 DW	365571
320-59495-23	AN-23-DW	Total/NA	Water	537.1 DW	365571
320-59495-24	AN-24-DW	Total/NA	Water	537.1 DW	365571
320-59495-25	AN-25-DW	Total/NA	Water	537.1 DW	365571
320-59495-26	AN-26-DW	Total/NA	Water	537.1 DW	365571
320-59495-27	AN-27-DW	Total/NA	Water	537.1 DW	365571
MB 320-365571/1-A	Method Blank	Total/NA	Water	537.1 DW	365571
LCS 320-365571/2-A	Lab Control Sample	Total/NA	Water	537.1 DW	365571
LCSD 320-365571/3-A	Lab Control Sample Dup	Total/NA	Water	537.1 DW	365571

Analysis Batch: 366634

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-59495-28	AN-28-DW	Total/NA	Water	537.1 DW	365571
320-59495-29	AN-29-DW	Total/NA	Water	537.1 DW	365571
320-59495-30	AN-30-DW	Total/NA	Water	537.1 DW	365571
320-59495-31	AN-31-DW	Total/NA	Water	537.1 DW	365571
320-59495-32	AN-32-DW	Total/NA	Water	537.1 DW	365571

Analysis Batch: 366636

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-59495-1	AN-01-DW	Total/NA	Water	537.1 DW	365500
320-59495-2	AN-02-DW	Total/NA	Water	537.1 DW	365500
320-59495-3	AN-03-DW	Total/NA	Water	537.1 DW	365500
320-59495-4	AN-04-DW	Total/NA	Water	537.1 DW	365500
320-59495-5	AN-05-DW	Total/NA	Water	537.1 DW	365500
320-59495-6	AN-06-DW	Total/NA	Water	537.1 DW	365500
320-59495-7	AN-07-DW	Total/NA	Water	537.1 DW	365500
MB 320-365500/1-A	Method Blank	Total/NA	Water	537.1 DW	365500
LLCS 320-365500/2-A	Lab Control Sample	Total/NA	Water	537.1 DW	365500
LLCSD 320-365500/3-A	Lab Control Sample Dup	Total/NA	Water	537.1 DW	365500

Eurofins TestAmerica, Sacramento

QC Association Summary

Client: Alaska Department of Env. Conservation
Project/Site: PFAS, Alaska Drinking Water

Job ID: 320-59495-1

LCMS

Analysis Batch: 366638

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-59495-8	AN-08-DW	Total/NA	Water	537.1 DW	365500
320-59495-9	AN-09-DW	Total/NA	Water	537.1 DW	365500
320-59495-10	AN-10-DW	Total/NA	Water	537.1 DW	365500

Lab Chronicle

Client: Alaska Department of Env. Conservation
Project/Site: PFAS, Alaska Drinking Water

Job ID: 320-59495-1

Client Sample ID: AN-01-DW

Date Collected: 03/11/20 12:10

Date Received: 03/14/20 09:20

Lab Sample ID: 320-59495-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537.1 DW			248.3 mL	1.00 mL	365500	03/18/20 05:03	AEC	TAL SAC
Total/NA	Analysis	537.1 DW		1			366636	03/22/20 09:16	P1N	TAL SAC

Client Sample ID: AN-02-DW

Date Collected: 03/11/20 12:50

Date Received: 03/14/20 09:20

Lab Sample ID: 320-59495-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537.1 DW			258.5 mL	1.00 mL	365500	03/18/20 05:03	AEC	TAL SAC
Total/NA	Analysis	537.1 DW		1			366636	03/22/20 09:24	P1N	TAL SAC

Client Sample ID: AN-03-DW

Date Collected: 03/11/20 13:12

Date Received: 03/14/20 09:20

Lab Sample ID: 320-59495-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537.1 DW			260.2 mL	1.00 mL	365500	03/18/20 05:03	AEC	TAL SAC
Total/NA	Analysis	537.1 DW		1			366636	03/22/20 09:31	P1N	TAL SAC

Client Sample ID: AN-04-DW

Date Collected: 03/11/20 13:40

Date Received: 03/14/20 09:20

Lab Sample ID: 320-59495-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537.1 DW			263.5 mL	1.00 mL	365500	03/18/20 05:03	AEC	TAL SAC
Total/NA	Analysis	537.1 DW		1			366636	03/22/20 09:39	P1N	TAL SAC

Client Sample ID: AN-05-DW

Date Collected: 03/11/20 14:12

Date Received: 03/14/20 09:20

Lab Sample ID: 320-59495-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537.1 DW			257.6 mL	1.00 mL	365500	03/18/20 05:03	AEC	TAL SAC
Total/NA	Analysis	537.1 DW		1			366636	03/22/20 09:47	P1N	TAL SAC

Client Sample ID: AN-06-DW

Date Collected: 03/11/20 14:39

Date Received: 03/14/20 09:20

Lab Sample ID: 320-59495-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537.1 DW			252.5 mL	1.00 mL	365500	03/18/20 05:03	AEC	TAL SAC
Total/NA	Analysis	537.1 DW		1			366636	03/22/20 09:55	P1N	TAL SAC

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Lab Chronicle

Client: Alaska Department of Env. Conservation
Project/Site: PFAS, Alaska Drinking Water

Job ID: 320-59495-1

Client Sample ID: AN-07-DW

Date Collected: 03/11/20 15:03

Date Received: 03/14/20 09:20

Lab Sample ID: 320-59495-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537.1 DW			254.8 mL	1.00 mL	365500	03/18/20 05:03	AEC	TAL SAC
Total/NA	Analysis	537.1 DW		1			366636	03/22/20 10:02	P1N	TAL SAC

Client Sample ID: AN-08-DW

Date Collected: 03/11/20 15:03

Date Received: 03/14/20 09:20

Lab Sample ID: 320-59495-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537.1 DW			262 mL	1.00 mL	365500	03/18/20 05:03	AEC	TAL SAC
Total/NA	Analysis	537.1 DW		1			366638	03/22/20 10:48	P1N	TAL SAC

Client Sample ID: AN-09-DW

Date Collected: 03/11/20 15:21

Date Received: 03/14/20 09:20

Lab Sample ID: 320-59495-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537.1 DW			257.5 mL	1.00 mL	365500	03/18/20 05:03	AEC	TAL SAC
Total/NA	Analysis	537.1 DW		1			366638	03/22/20 10:56	P1N	TAL SAC

Client Sample ID: AN-10-DW

Date Collected: 03/11/20 15:55

Date Received: 03/14/20 09:20

Lab Sample ID: 320-59495-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537.1 DW			252.6 mL	1.00 mL	365500	03/18/20 05:03	AEC	TAL SAC
Total/NA	Analysis	537.1 DW		1			366638	03/22/20 11:04	P1N	TAL SAC

Client Sample ID: AN-11-DW

Date Collected: 03/11/20 16:12

Date Received: 03/14/20 09:20

Lab Sample ID: 320-59495-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537.1 DW			244.7 mL	1.00 mL	365491	03/18/20 04:10	MM	TAL SAC
Total/NA	Analysis	537.1 DW		1			366616	03/22/20 04:08	P1N	TAL SAC

Client Sample ID: AN-12-DW

Date Collected: 03/11/20 16:44

Date Received: 03/14/20 09:20

Lab Sample ID: 320-59495-12

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537.1 DW			249.2 mL	1.00 mL	365491	03/18/20 04:10	MM	TAL SAC
Total/NA	Analysis	537.1 DW		1			366616	03/22/20 04:16	P1N	TAL SAC

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Lab Chronicle

Client: Alaska Department of Env. Conservation
Project/Site: PFAS, Alaska Drinking Water

Job ID: 320-59495-1

Client Sample ID: AN-13-DW

Date Collected: 03/11/20 17:00

Date Received: 03/14/20 09:20

Lab Sample ID: 320-59495-13

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537.1 DW			254.4 mL	1.00 mL	365491	03/18/20 04:10	MM	TAL SAC
Total/NA	Analysis	537.1 DW		1			366616	03/22/20 04:23	P1N	TAL SAC

Client Sample ID: AN-14-DW

Date Collected: 03/11/20 17:20

Date Received: 03/14/20 09:20

Lab Sample ID: 320-59495-14

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537.1 DW			251.1 mL	1.00 mL	365491	03/18/20 04:10	MM	TAL SAC
Total/NA	Analysis	537.1 DW		1			366616	03/22/20 04:31	P1N	TAL SAC

Client Sample ID: AN-15-DW

Date Collected: 03/11/20 17:43

Date Received: 03/14/20 09:20

Lab Sample ID: 320-59495-15

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537.1 DW			254.9 mL	1.00 mL	365491	03/18/20 04:10	MM	TAL SAC
Total/NA	Analysis	537.1 DW		1			366616	03/22/20 04:39	P1N	TAL SAC

Client Sample ID: AN-16-DW

Date Collected: 03/11/20 18:02

Date Received: 03/14/20 09:20

Lab Sample ID: 320-59495-16

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537.1 DW			252.7 mL	1.00 mL	365491	03/18/20 04:10	MM	TAL SAC
Total/NA	Analysis	537.1 DW		1			366616	03/22/20 04:46	P1N	TAL SAC

Client Sample ID: AN-17-DW

Date Collected: 03/11/20 18:21

Date Received: 03/14/20 09:20

Lab Sample ID: 320-59495-17

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537.1 DW			252.8 mL	1.00 mL	365491	03/18/20 04:10	MM	TAL SAC
Total/NA	Analysis	537.1 DW		1			366616	03/22/20 04:54	P1N	TAL SAC

Client Sample ID: AN-18-DW

Date Collected: 03/11/20 18:47

Date Received: 03/14/20 09:20

Lab Sample ID: 320-59495-18

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537.1 DW			262.8 mL	1.00 mL	365491	03/18/20 04:10	MM	TAL SAC
Total/NA	Analysis	537.1 DW		1			366618	03/22/20 05:40	P1N	TAL SAC

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Lab Chronicle

Client: Alaska Department of Env. Conservation
Project/Site: PFAS, Alaska Drinking Water

Job ID: 320-59495-1

Client Sample ID: AN-19-DW

Lab Sample ID: 320-59495-19

Date Collected: 03/11/20 19:04

Matrix: Water

Date Received: 03/14/20 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537.1 DW			260.4 mL	1.00 mL	365491	03/18/20 04:10	MM	TAL SAC
Total/NA	Analysis	537.1 DW		1			366618	03/22/20 05:48	P1N	TAL SAC

Client Sample ID: AN-20-DW

Lab Sample ID: 320-59495-20

Date Collected: 03/12/20 08:15

Matrix: Water

Date Received: 03/14/20 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537.1 DW			248.8 mL	1.00 mL	365491	03/18/20 04:10	MM	TAL SAC
Total/NA	Analysis	537.1 DW		1			366618	03/22/20 05:56	P1N	TAL SAC

Client Sample ID: AN-21-DW

Lab Sample ID: 320-59495-21

Date Collected: 03/12/20 08:15

Matrix: Water

Date Received: 03/14/20 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537.1 DW			261.3 mL	1 mL	365571	03/18/20 04:47	MBB	TAL SAC
Total/NA	Analysis	537.1 DW		1			366632	03/22/20 06:34	P1N	TAL SAC

Client Sample ID: AN-22-DW

Lab Sample ID: 320-59495-22

Date Collected: 03/12/20 08:33

Matrix: Water

Date Received: 03/14/20 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537.1 DW			259.9 mL	1 mL	365571	03/18/20 04:47	MBB	TAL SAC
Total/NA	Analysis	537.1 DW		1			366632	03/22/20 06:42	P1N	TAL SAC

Client Sample ID: AN-23-DW

Lab Sample ID: 320-59495-23

Date Collected: 03/12/20 08:52

Matrix: Water

Date Received: 03/14/20 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537.1 DW			256.7 mL	1 mL	365571	03/18/20 04:47	MBB	TAL SAC
Total/NA	Analysis	537.1 DW		1			366632	03/22/20 06:50	P1N	TAL SAC

Client Sample ID: AN-24-DW

Lab Sample ID: 320-59495-24

Date Collected: 03/12/20 09:10

Matrix: Water

Date Received: 03/14/20 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537.1 DW			272.1 mL	1 mL	365571	03/18/20 04:47	MBB	TAL SAC
Total/NA	Analysis	537.1 DW		1			366632	03/22/20 06:57	P1N	TAL SAC

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Lab Chronicle

Client: Alaska Department of Env. Conservation
Project/Site: PFAS, Alaska Drinking Water

Job ID: 320-59495-1

Client Sample ID: AN-25-DW

Lab Sample ID: 320-59495-25

Date Collected: 03/12/20 09:36

Matrix: Water

Date Received: 03/14/20 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537.1 DW			251.3 mL	1 mL	365571	03/18/20 04:47	MBB	TAL SAC
Total/NA	Analysis	537.1 DW		1			366632	03/22/20 07:05	P1N	TAL SAC

Client Sample ID: AN-26-DW

Lab Sample ID: 320-59495-26

Date Collected: 03/12/20 09:50

Matrix: Water

Date Received: 03/14/20 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537.1 DW			271.7 mL	1 mL	365571	03/18/20 04:47	MBB	TAL SAC
Total/NA	Analysis	537.1 DW		1			366632	03/22/20 07:13	P1N	TAL SAC

Client Sample ID: AN-27-DW

Lab Sample ID: 320-59495-27

Date Collected: 03/12/20 10:14

Matrix: Water

Date Received: 03/14/20 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537.1 DW			254.8 mL	1 mL	365571	03/18/20 04:47	MBB	TAL SAC
Total/NA	Analysis	537.1 DW		1			366632	03/22/20 07:21	P1N	TAL SAC

Client Sample ID: AN-28-DW

Lab Sample ID: 320-59495-28

Date Collected: 03/12/20 10:29

Matrix: Water

Date Received: 03/14/20 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537.1 DW			249.5 mL	1 mL	365571	03/18/20 04:47	MBB	TAL SAC
Total/NA	Analysis	537.1 DW		1			366634	03/22/20 08:07	P1N	TAL SAC

Client Sample ID: AN-29-DW

Lab Sample ID: 320-59495-29

Date Collected: 03/12/20 10:59

Matrix: Water

Date Received: 03/14/20 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537.1 DW			261.8 mL	1 mL	365571	03/18/20 04:47	MBB	TAL SAC
Total/NA	Analysis	537.1 DW		1			366634	03/22/20 08:14	P1N	TAL SAC

Client Sample ID: AN-30-DW

Lab Sample ID: 320-59495-30

Date Collected: 03/12/20 11:30

Matrix: Water

Date Received: 03/14/20 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537.1 DW			264.8 mL	1 mL	365571	03/18/20 04:47	MBB	TAL SAC
Total/NA	Analysis	537.1 DW		1			366634	03/22/20 08:22	P1N	TAL SAC

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Lab Chronicle

Client: Alaska Department of Env. Conservation
Project/Site: PFAS, Alaska Drinking Water

Job ID: 320-59495-1

Client Sample ID: AN-31-DW

Date Collected: 03/12/20 14:30

Date Received: 03/14/20 09:20

Lab Sample ID: 320-59495-31

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537.1 DW			258 mL	1 mL	365571	03/18/20 04:47	MBB	TAL SAC
Total/NA	Analysis	537.1 DW		1			366634	03/22/20 08:30	P1N	TAL SAC

Client Sample ID: AN-32-DW

Date Collected: 03/12/20 14:30

Date Received: 03/14/20 09:20

Lab Sample ID: 320-59495-32

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537.1 DW			273.6 mL	1 mL	365571	03/18/20 04:47	MBB	TAL SAC
Total/NA	Analysis	537.1 DW		1			366634	03/22/20 08:38	P1N	TAL SAC

Laboratory References:

TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Accreditation/Certification Summary

Client: Alaska Department of Env. Conservation
Project/Site: PFAS, Alaska Drinking Water

Job ID: 320-59495-1

Laboratory: Eurofins TestAmerica, Sacramento

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	17-020	01-20-21

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
537.1 DW	537.1 DW	Water	DONA
537.1 DW	537.1 DW	Water	F-53B Major
537.1 DW	537.1 DW	Water	F-53B Minor
537.1 DW	537.1 DW	Water	HFPO-DA (GenX)
537.1 DW	537.1 DW	Water	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)
537.1 DW	537.1 DW	Water	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)
537.1 DW	537.1 DW	Water	Perfluorobutanesulfonic acid (PFBS)
537.1 DW	537.1 DW	Water	Perfluorodecanoic acid (PFDA)
537.1 DW	537.1 DW	Water	Perfluorododecanoic acid (PFDoA)
537.1 DW	537.1 DW	Water	Perfluoroheptanoic acid (PFHpA)
537.1 DW	537.1 DW	Water	Perfluorohexanesulfonic acid (PFHxS)
537.1 DW	537.1 DW	Water	Perfluorohexanoic acid (PFHxA)
537.1 DW	537.1 DW	Water	Perfluorononanoic acid (PFNA)
537.1 DW	537.1 DW	Water	Perfluorooctanesulfonic acid (PFOS)
537.1 DW	537.1 DW	Water	Perfluorooctanoic acid (PFOA)
537.1 DW	537.1 DW	Water	Perfluorotetradecanoic acid (PFTeA)
537.1 DW	537.1 DW	Water	Perfluorotridecanoic acid (PFTriA)
537.1 DW	537.1 DW	Water	Perfluoroundecanoic acid (PFUnA)

Method Summary

Client: Alaska Department of Env. Conservation
Project/Site: PFAS, Alaska Drinking Water

Job ID: 320-59495-1

Method	Method Description	Protocol	Laboratory
537.1 DW	Perfluorinated Alkyl Acids (LC/MS)	EPA	TAL SAC
537.1 DW	Extraction of Perfluorinated Alkyl Acids	EPA	TAL SAC

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Sample Summary

Client: Alaska Department of Env. Conservation
Project/Site: PFAS, Alaska Drinking Water

Job ID: 320-59495-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
320-59495-1	AN-01-DW	Water	03/11/20 12:10	03/14/20 09:20	
320-59495-2	AN-02-DW	Water	03/11/20 12:50	03/14/20 09:20	
320-59495-3	AN-03-DW	Water	03/11/20 13:12	03/14/20 09:20	
320-59495-4	AN-04-DW	Water	03/11/20 13:40	03/14/20 09:20	
320-59495-5	AN-05-DW	Water	03/11/20 14:12	03/14/20 09:20	
320-59495-6	AN-06-DW	Water	03/11/20 14:39	03/14/20 09:20	
320-59495-7	AN-07-DW	Water	03/11/20 15:03	03/14/20 09:20	
320-59495-8	AN-08-DW	Water	03/11/20 15:03	03/14/20 09:20	
320-59495-9	AN-09-DW	Water	03/11/20 15:21	03/14/20 09:20	
320-59495-10	AN-10-DW	Water	03/11/20 15:55	03/14/20 09:20	
320-59495-11	AN-11-DW	Water	03/11/20 16:12	03/14/20 09:20	
320-59495-12	AN-12-DW	Water	03/11/20 16:44	03/14/20 09:20	
320-59495-13	AN-13-DW	Water	03/11/20 17:00	03/14/20 09:20	
320-59495-14	AN-14-DW	Water	03/11/20 17:20	03/14/20 09:20	
320-59495-15	AN-15-DW	Water	03/11/20 17:43	03/14/20 09:20	
320-59495-16	AN-16-DW	Water	03/11/20 18:02	03/14/20 09:20	
320-59495-17	AN-17-DW	Water	03/11/20 18:21	03/14/20 09:20	
320-59495-18	AN-18-DW	Water	03/11/20 18:47	03/14/20 09:20	
320-59495-19	AN-19-DW	Water	03/11/20 19:04	03/14/20 09:20	
320-59495-20	AN-20-DW	Water	03/12/20 08:15	03/14/20 09:20	
320-59495-21	AN-21-DW	Water	03/12/20 08:15	03/14/20 09:20	
320-59495-22	AN-22-DW	Water	03/12/20 08:33	03/14/20 09:20	
320-59495-23	AN-23-DW	Water	03/12/20 08:52	03/14/20 09:20	
320-59495-24	AN-24-DW	Water	03/12/20 09:10	03/14/20 09:20	
320-59495-25	AN-25-DW	Water	03/12/20 09:36	03/14/20 09:20	
320-59495-26	AN-26-DW	Water	03/12/20 09:50	03/14/20 09:20	
320-59495-27	AN-27-DW	Water	03/12/20 10:14	03/14/20 09:20	
320-59495-28	AN-28-DW	Water	03/12/20 10:29	03/14/20 09:20	
320-59495-29	AN-29-DW	Water	03/12/20 10:59	03/14/20 09:20	
320-59495-30	AN-30-DW	Water	03/12/20 11:30	03/14/20 09:20	
320-59495-31	AN-31-DW	Water	03/12/20 14:30	03/14/20 09:20	
320-59495-32	AN-32-DW	Water	03/12/20 14:30	03/14/20 09:20	

Company Name: ADEC		Client Contact		Project Manager: Grant Liden		Site Contact: Grant Liden		Date: 3-12-20		COC No: 1 of 3	
Address: 555 Cordova St				Tel/Email: grant.liden@alaska.gov		Lab Contact:		Carrier:		Sampler:	
City/State/Zip: Anchorage, AK 99501				Analysis Turnaround Time						For Lab Use Only:	
Phone: 907-269-2885				☒ CALENDAR DAYS ☐ WORKING DAYS						Walk-in Client:	
Fax:				TAT if different from Below						Lab Sampling:	
Project Name: Aniak PFAS				☒ 2 weeks						Job / SDG No.:	
Site:				☐ 1 week							
PO #				☐ 2 days							
				☐ 1 day							
Sample Identification		Sample Date		Sample Time		Sample Type (C=Comp, G=Grab)		Matrix		# of Cont.	
AN-01-DW		3/11/20		1210		G		W		Z	
AN-02-DW		3/11/20		1250		G		W		Z	
AN-03-DW		3/11/20		1312		G		W		Z	
AN-04-DW		3/11/20		1340		G		W		Z	
AN-05-DW		3/11/20		1412		G		W		Z	
AN-06-DW		3/11/20		1439		G		W		Z	
AN-07-DW		3/11/20		1503		G		W		Z	
AN-08-DW		3/11/20		1503		G		W		1	
AN-09-DW		3/11/20		1521		G		W		Z	
AN-10-DW		3/11/20		1555		G		W		Z	
AN-11-DW		3/11/20		1612		G		W		Z	
AN-12-DW		3/11/20		1644		G		W		Z	
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other											
Possible Hazard Identification:											
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.											
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown											
Special Instructions/QC Requirements & Comments:											
Custody Seals Intact: ☒ Yes ☐ No		Custody Seal No.: 1084620		Cooler Temp. (°C): Obs'd: 12.6		Corr'd: 13.2		Therm ID No.: A411			
Relinquished by: <u>Grant Liden</u>		Company: ADEC		Received by: <u>Sally</u>		Company: <u>ES&E</u>		Date/Time: 3/11/20		Date/Time: 3/11/20	
Relinquished by:		Company:		Received by:		Company:		Date/Time:		Date/Time:	
Relinquished by:		Company:		Received in Laboratory by:		Company:		Date/Time:		Date/Time:	

Chain of Custody Record

412056



Environment TestAmerica

Address: 555 Cordova St.
Anch, AK 99501

TAL-8210

Regulatory Program:

☐ DW ☐ NPDES ☐ RCRA ☒ Other: CSP

ADEC

Other: CSP

Client Contact

Company Name: ADEC

Address: 555 Cordova St

City/State/Zip: Anchorage AK 99501

Phone: 907-269-8685

Fax:

Project Name: Aniak PFAS

Site:

PO #

Project Manager: Grant Lidren

Tel/Email: (907) 269-8685

Site Contact: Grant Lidren

Lab Contact:

COC No:

2 of 3 COCs

Date: 3-12-20

Carrier:

Sampler:

For Lab Use Only:

Walk-in Client:

Lab Sampling:

Job / SDG No.:

Sample Specific Notes:

Analysis Turnaround Time

☐ CALENDAR DAYS ☐ WORKING DAYS

TAT if different from Below

☒ 2 weeks
☐ 1 week
☐ 2 days
☐ 1 day

Sample Date

Sample Time

Sample Type (C=Comp, G=Grab)

Matrix

of Cont.

Filtered Sample (Y/N)

Perform MS / MSD (Y/N)

Sample Identification

AN-13-DW

AN-14-DW

AN-15-DW

AN-16-DW

AN-17-DW

AN-18-DW

AN-19-DW

AN-20-DW

AN-21-DW

AN-22-DW

AN-23-DW

AN-24-DW

AN-25-DW

AN-26-DW

AN-27-DW

AN-28-DW

AN-29-DW

AN-30-DW

AN-31-DW

AN-32-DW

AN-33-DW

AN-34-DW

AN-35-DW

AN-36-DW

AN-37-DW

AN-38-DW

AN-39-DW

AN-40-DW

AN-41-DW

AN-42-DW

AN-43-DW

AN-44-DW

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other

Possible Hazard Identification:

Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Unknown

☐ Poison B ☐ Unknown

☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Cooler Temp. (°C): Obs'd: 12.2

Corr'd: 12.2

Therm ID No.: 0644

Date/Time: 3/14/20 8:15

Company: EAS

Received by: [Signature]

Received in Laboratory by: [Signature]

Date/Time: [Blank]

Date/Time: [Blank]

Date/Time: [Blank]

Chain of Custody Record

412057

Environment Testing
TestAmerica

TAL-3210

Address: 555 Cordova St.
Anchorage, AK 99501Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other: ADEC CSPProject Manager: Grant Lidren
Tel/Email: grant.lidren@alaska.gov
Analysis Turnaround TimeSite Contact: Grant Lidren
Lab Contact: Grant Lidren

COC No: 3 of 3 COCs

Sampler: For Lab Use Only:

Walk-in Client: Lab Sampling:

Job / SDG No.:

Sample Specific Notes:

Filtered Sample (Y/N)

Perform MS / MSD (Y/N)

Matrix

of Cont.

Sample Date

Sample Time

Sample Type (G=Comp, G=Grab)

AN-25-DW

AN-26-DW

AN-27-DW

AN-28-DW

AN-29-DW

AN-30-DW

AN-31-DW

AN-32-DW

Preservation Used: 1= Ice, 2= HCl, 3= H2SO4, 4= HNO3, 5= NaOH, 6= Other

Possible Hazard Identification:

Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the

Comments Section if the lab is to dispose of the sample.

☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seal No.: 1084620

Company: ADEC

Relinquished by: Grant Lidren

Relinquished by:

Relinquished by:

Cooler Temp. (°C): 12.6

Obs'd: 13.2

Corr'd: 13.2

Therm ID No.: 424

Date/Time: 3/14/20

Company: 818

Date/Time:

Date/Time:

Date/Time:

Date/Time:

Date/Time:

Date/Time:

Date/Time:

Date/Time:

Date/Time:

Login Sample Receipt Checklist

Client: Alaska Department of Env. Conservation

Job Number: 320-59495-1

Login Number: 59495

List Source: Eurofins TestAmerica, Sacramento

List Number: 1

Creator: Thompson, Sarah W

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	1084620
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	False	Refer to Job Narrative for details.
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	