TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Tel: (253)922-2310

TestAmerica Job ID: 580-82900-1
Client Project/Site: PFAS, AK Drinking Water December

For:
Alaska Department of Env. Conservation
Post Office Box 1542
Haines, Alaska 99827

Attn: Anne Marie Palmieri

M. Elaine Walker

Authorized for release by:
1/16/2019 2:49:13 PM

Elaine Walker, Project Manager II
(253)248-4972
elaine.walker@testamericainc.com

Table of Contents

Job ID: 580-82900-1

Laboratory: TestAmerica Seattle

Narrative

Job Narrative
580-82900-1

Receipt
Twenty-one samples were received on 12/26/2018 11:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 5.0º C.

The samples were forwarded to Eurofins Lancaster Lab for Method 537 DW PSAS analysis. Their report is included here.

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)

Accreditation/Certification Summary

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

TestAmerica Job ID: 580-82900-1

Laboratory: TestAmerica Seattle

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Alaska (UST)	State Program	10	17-024	01-19-19
ANAB	DoD ELAP		L2236	01-19-22
ANAB	ISO/IEC 17025		L2236	01-19-19
California	State Program	9	2901	11-05-19
Montana (UST)	State Program	8	N/A	04-30-20
Nevada	State Program	9	WA000502019-1	07-31-19
Oregon	NELAP	10	WA100007	11-05-19
US Fish & Wildlife	Federal		LE058448-0	07-31-19
USDA	Federal		P330-14-00126	02-10-20
Washington	State Program	10	C553	02-17-19

Sample Summary

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

TestAmerica Job ID: 580-82900-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-82900-1	DIL-01	Water	12/17/18 09:40	12/26/18 11:00
580-82900-2	DIL-02	Water	12/17/18 10:40	12/26/18 11:00
580-82900-3	DIL-03	Water	12/17/18 11:10	12/26/18 11:00
580-82900-4	DIL-04	Water	12/17/18 11:20	12/26/18 11:00
580-82900-5	DIL-05	Water	12/17/18 11:50	12/26/18 11:00
580-82900-6	DIL-06	Water	12/17/18 11:50	12/26/18 11:00
580-82900-7	DIL-07	Water	12/17/18 13:30	12/26/18 11:00
580-82900-8	DIL-08	Water	12/17/18 14:00	12/26/18 11:00
580-82900-9	DIL-09	Water	12/17/18 14:20	12/26/18 11:00
580-82900-10	DIL-10	Water	12/17/18 15:15	12/26/18 11:00
580-82900-11	KIN-01	Water	12/18/18 14:50	12/26/18 11:00
580-82900-12	KIN-02 (field blank)	Water	12/18/18 14:50	12/26/18 11:00
580-82900-13	KIN-03	Water	12/18/18 15:10	12/26/18 11:00
580-82900-14	KIN-04	Water	12/18/18 15:10	12/26/18 11:00
580-82900-15	KIN-05	Water	12/18/18 15:50	12/26/18 11:00
580-82900-16	KIN-06	Water	12/18/18 16:10	12/26/18 11:00
580-82900-17	KIN-07	Water	12/18/18 16:40	12/26/18 11:00
580-82900-18	KIN-08	Water	12/18/18 16:45	12/26/18 11:00
580-82900-19	KIN-09	Water	12/18/18 17:00	12/26/18 11:00
580-82900-20	KIN-10	Water	12/18/18 17:30	12/26/18 11:00
580-82900-21	KIN-11	Water	12/19/18 10:15	12/26/18 11:00

eurofins | Lancaster Laboratories Environmental

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-6766 • www.EurofinsUS.com/LancLabsEnv

ANALYSIS REPORT

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

TestAmerica
880 Riverside Parkway
West Sacramento CA 95605

Report Date: January 14, 2019 11:17

Project: Alaska DEC

Account #: 01042
Group Number: 2021414
SDG: TAK30
State of Sample Origin: AK

Electronic Copy To TestAmerica Attn: Elaine Walker

Respectfully Submitted,

Kay Hower

(717) 556-7364

To view our laboratory's current scopes of accreditation please go to https://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/certifications-and-accreditations-eurofins-lancaster-laboratories-environmental/ . Historical copies may be requested through your project manager.

2426 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-6766 • www.EurofinsUS.com/LancLabsEnv

SAMPLE INFORMATION

Client Sample Description	Sample Collection Date/Time	ELLE#
DIL-01 Grab Water	12/17/2018 09:40	9953226
DIL-02 Grab Water	12/17/2018 10:40	9953227
DIL-03 Grab Water	12/17/2018 11:10	9953228
DIL-04 Grab Water	12/17/2018 11:20	9953229
DIL-05 Grab Water	12/17/2018 11:50	9953230
DIL-06 Grab Water	12/17/2018 11:50	9953231
DIL-07 Grab Water	12/17/2018 13:30	9953232
DIL-08 Grab Water	12/17/2018 14:00	9953233
DIL-09 Grab Water	12/17/2018 14:20	9953234
DIL-10 Grab Water	12/17/2018 15:15	9953235
KIN-01 Grab Water	12/18/2018 14:50	9953236
KIN-02 (field blank) Grab Water	12/18/2018 14:50	9953237
KIN-03 Grab Water	12/18/2018 15:10	9953238
KIN-04 Grab Water	12/18/2018 15:10	9953239
KIN-05 Grab Water	12/18/2018 15:50	9953240
KIN-06 Grab Water	12/18/2018 16:10	9953241
KIN-07 Grab Water	12/18/2018 16:40	9953242
KIN-08 Grab Water	12/18/2018 16:45	9953243
KIN-09 Grab Water	12/18/2018 17:00	9953244
KIN-10 Grab Water	12/18/2018 17:30	9953245
KIN-11 Grab Water	12/19/2018 10:15	9953246

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

2426 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-6766 • www.EurofinsUS.com/LancLabsEnv

Sample Description: DIL-01 Grab Water
Alaska DEC

Project Name: Alaska DEC

Submittal Date/Time: 12/21/2018 11:20
Collection Date/Time: 12/17/2018 09:40
SDG#: TAK30-01

TestAmerica
ELLE Sample #: WW 9953226
ELLE Group #: 2021414
Matrix: Water

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
LC/MS/MS Miscellaneous	**EPA 537 Version 1.1**		**ng/l**	**ng/l**	**ng/l**	
14070	NEtFOSAA	2991-50-6	N.D.	0.48	1.9	1
	NEtFOSAA is the acronym for N-ethyl perfluorooctanesulfonamidoacetic Acid.					
14070	NMeFOSAA	2355-31-9	N.D.	0.48	1.9	1
	NMeFOSAA is the acronym for N-methyl perfluorooctanesulfonamidoacetic Acid.					
14070	Perfluorobutanesulfonate	375-73-5	0.51 J	0.48	1.9	1
14070	Perfluorodecanoic acid	335-76-2	N.D.	0.48	1.9	1
14070	Perfluorododecanoic acid	307-55-1	N.D.	0.48	1.9	1
14070	Perfluoroheptanoic acid	375-85-9	3.9	0.48	1.9	1
14070	Perfluorohexanesulfonate	355-46-4	2.2	0.48	1.9	1
14070	Perfluorohexanoic acid	307-24-4	8.2	0.48	1.9	1
14070	Perfluorononanoic acid	375-95-1	N.D.	0.48	1.9	1
14070	Perfluoro-octanesulfonate	1763-23-1	N.D.	0.48	1.9	1
14070	Perfluorooctanoic acid	335-67-1	3.8	0.48	1.9	1
14070	Perfluorotetradecanoic acid	376-06-7	N.D.	0.48	1.9	1
14070	Perfluorotridecanoic acid	72629-94-8	N.D.	0.48	1.9	1
14070	Perfluoroundecanoic acid	2058-94-8	N.D.	0.48	1.9	1

Sample Comments

State of Alaska Lab Certification No. UST-061

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14070	14 PFAS PW Water	EPA 537 Version 1.1	1	18362013	01/05/2019 19:22	Marissa C Drexinger	1
14381	DW PFAS Prep	EPA 537 Version 1.1	1	18362013	12/29/2018 06:00	Robert Brown	1

*=This limit was used in the evaluation of the final result

2426 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-6766 • www.EurofinsUS.com/LancLabsEnv

Sample Description: DIL-02 Grab Water
Alaska DEC

Project Name: Alaska DEC

Submittal Date/Time: 12/21/2018 11:20
Collection Date/Time: 12/17/2018 10:40
SDG#: TAK30-02

TestAmerica
ELLE Sample #: WW 9953227
ELLE Group #: 2021414
Matrix: Water

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
LC/MS/MS Miscellaneous	**EPA 537 Version 1.1**		**ng/l**	**ng/l**	**ng/l**	
14070	NEtFOSAA	2991-50-6	N.D.	0.44	1.7	1
	NEtFOSAA is the acronym for N-ethyl perfluorooctanesulfonamidoacetic Acid.					
14070	NMeFOSAA	2355-31-9	N.D.	0.44	1.7	1
	NMeFOSAA is the acronym for N-methyl perfluorooctanesulfonamidoacetic Acid.					
14070	Perfluorobutanesulfonate	375-73-5	4.4	0.44	1.7	1
14070	Perfluorodecanoic acid	335-76-2	N.D.	0.44	1.7	1
14070	Perfluorododecanoic acid	307-55-1	N.D.	0.44	1.7	1
14070	Perfluoroheptanoic acid	375-85-9	3.6	0.44	1.7	1
14070	Perfluorohexanesulfonate	355-46-4	12	0.44	1.7	1
14070	Perfluorohexanoic acid	307-24-4	17	0.44	1.7	1
14070	Perfluorononanoic acid	375-95-1	N.D.	0.44	1.7	1
14070	Perfluoro-octanesulfonate	1763-23-1	3.4	0.44	1.7	1
14070	Perfluorooctanoic acid	335-67-1	2.5	0.44	1.7	1
14070	Perfluorotetradecanoic acid	376-06-7	N.D.	0.44	1.7	1
14070	Perfluorotridecanoic acid	72629-94-8	N.D.	0.44	1.7	1
14070	Perfluoroundecanoic acid	2058-94-8	N.D.	0.44	1.7	1

Sample Comments

State of Alaska Lab Certification No. UST-061

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14070	14 PFAS PW Water	EPA 537 Version 1.1	1	18362013	01/05/2019 19:34	Marissa C Drexinger	1
14381	DW PFAS Prep	EPA 537 Version 1.1	1	18362013	12/29/2018 06:00	Robert Brown	1

*=This limit was used in the evaluation of the final result

2426 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-6766 • www.EurofinsUS.com/LancLabsEnv

Sample Description: DIL-03 Grab Water
Alaska DEC

Project Name: Alaska DEC

Submittal Date/Time: 12/21/2018 11:20
Collection Date/Time: 12/17/2018 11:10
SDG#: TAK30-03

TestAmerica
ELLE Sample #: WW 9953228
ELLE Group #: 2021414
Matrix: Water

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
LC/MS/MS Miscellaneous	**EPA 537 Version 1.1**		**ng/l**	**ng/l**	**ng/l**	
14070	NEtFOSAA	2991-50-6	N.D.	0.45	1.8	1
	NEtFOSAA is the acronym for N-ethyl perfluorooctanesulfonamidoacetic Acid.					
14070	NMeFOSAA	2355-31-9	N.D.	0.45	1.8	1
	NMeFOSAA is the acronym for N-methyl perfluorooctanesulfonamidoacetic Acid.					
14070	Perfluorobutanesulfonate	375-73-5	3.0	0.45	1.8	1
14070	Perfluorodecanoic acid	335-76-2	N.D.	0.45	1.8	1
14070	Perfluorododecanoic acid	307-55-1	N.D.	0.45	1.8	1
14070	Perfluoroheptanoic acid	375-85-9	3.6	0.45	1.8	1
14070	Perfluorohexanesulfonate	355-46-4	10	0.45	1.8	1
14070	Perfluorohexanoic acid	307-24-4	12	0.45	1.8	1
14070	Perfluorononanoic acid	375-95-1	N.D.	0.45	1.8	1
14070	Perfluoro-octanesulfonate	1763-23-1	3.5	0.45	1.8	1
14070	Perfluorooctanoic acid	335-67-1	2.3	0.45	1.8	1
14070	Perfluorotetradecanoic acid	376-06-7	N.D.	0.45	1.8	1
14070	Perfluorotridecanoic acid	72629-94-8	N.D.	0.45	1.8	1
14070	Perfluoroundecanoic acid	2058-94-8	N.D.	0.45	1.8	1

Sample Comments

State of Alaska Lab Certification No. UST-061

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14070	14 PFAS PW Water	EPA 537 Version 1.1	1	18362013	01/08/2019 16:39	Joshua P Trost	1
14381	DW PFAS Prep	EPA 537 Version 1.1	1	18362013	12/29/2018 06:00	Robert Brown	1

*=This limit was used in the evaluation of the final result

Sample Description: DIL-04 Grab Water
Alaska DEC

Project Name: Alaska DEC

Submittal Date/Time: 12/21/2018 11:20
Collection Date/Time: 12/17/2018 11:20
SDG#: TAK30-04

TestAmerica
ELLE Sample #: WW 9953229
ELLE Group #: 2021414
Matrix: Water

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
LC/MS/MS Miscellaneous	**EPA 537 Version 1.1**		**ng/l**	**ng/l**	**ng/l**	
14070	NEtFOSAA	2991-50-6	N.D.	0.42	1.7	1
	NEtFOSAA is the acronym for N-ethyl perfluorooctanesulfonamidoacetic Acid.					
14070	NMeFOSAA	2355-31-9	N.D.	0.42	1.7	1
	NMeFOSAA is the acronym for N-methyl perfluorooctanesulfonamidoacetic Acid.					
14070	Perfluorobutanesulfonate	375-73-5	0.70 J	0.42	1.7	1
14070	Perfluorodecanoic acid	335-76-2	N.D.	0.42	1.7	1
14070	Perfluorododecanoic acid	307-55-1	N.D.	0.42	1.7	1
14070	Perfluoroheptanoic acid	375-85-9	N.D.	0.42	1.7	1
14070	Perfluorohexanesulfonate	355-46-4	0.62 J	0.42	1.7	1
14070	Perfluorohexanoic acid	307-24-4	5.0	0.42	1.7	1
14070	Perfluorononanoic acid	375-95-1	N.D.	0.42	1.7	1
14070	Perfluoro-octanesulfonate	1763-23-1	N.D.	0.42	1.7	1
14070	Perfluorooctanoic acid	335-67-1	0.49 J	0.42	1.7	1
14070	Perfluorotetradecanoic acid	376-06-7	N.D.	0.42	1.7	1
14070	Perfluorotridecanoic acid	72629-94-8	N.D.	0.42	1.7	1
14070	Perfluoroundecanoic acid	2058-94-8	N.D.	0.42	1.7	1

Sample Comments

State of Alaska Lab Certification No. UST-061

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14070	14 PFAS PW Water	EPA 537 Version 1.1	1	18362013	01/05/2019 19:57	Marissa C Drexinger	1
14381	DW PFAS Prep	EPA 537 Version 1.1	1	18362013	12/29/2018 06:00	Robert Brown	1

*=This limit was used in the evaluation of the final result

2426 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-6766 • www.EurofinsUS.com/LancLabsEnv

Sample Description: DIL-05 Grab Water
Alaska DEC

Project Name: Alaska DEC

Submittal Date/Time: 12/21/2018 11:20
Collection Date/Time: 12/17/2018 11:50
SDG#: TAK30-05

TestAmerica
ELLE Sample #: WW 9953230
ELLE Group #: 2021414
Matrix: Water

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
LC/MS/MS Miscellaneous	**EPA 537 Version 1.1**		**ng/l**	**ng/l**	**ng/l**	
14070	NEtFOSAA	2991-50-6	N.D.	0.44	1.8	1
	NEtFOSAA is the acronym for N-ethyl perfluorooctanesulfonamidoacetic Acid.					
14070	NMeFOSAA	2355-31-9	N.D.	0.44	1.8	1
	NMeFOSAA is the acronym for N-methyl perfluorooctanesulfonamidoacetic Acid.					
14070	Perfluorobutanesulfonate	375-73-5	51	0.44	1.8	1
14070	Perfluorodecanoic acid	335-76-2	N.D.	0.44	1.8	1
14070	Perfluorododecanoic acid	307-55-1	N.D.	0.44	1.8	1
14070	Perfluoroheptanoic acid	375-85-9	3.3	0.44	1.8	1
14070	Perfluorohexanesulfonate	355-46-4	140	4.4	18	10
14070	Perfluorohexanoic acid	307-24-4	39	0.44	1.8	1
14070	Perfluorononanoic acid	375-95-1	N.D.	0.44	1.8	1
14070	Perfluoro-octanesulfonate	1763-23-1	37	0.44	1.8	1
14070	Perfluorooctanoic acid	335-67-1	5.2	0.44	1.8	1
14070	Perfluorotetradecanoic acid	376-06-7	N.D.	0.44	1.8	1
14070	Perfluorotridecanoic acid	72629-94-8	N.D.	0.44	1.8	1
14070	Perfluoroundecanoic acid	2058-94-8	N.D.	0.44	1.8	1

Sample Comments

State of Alaska Lab Certification No. UST-061

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14070	14 PFAS PW Water	EPA 537 Version 1.1	1	18362013	01/05/2019 20:09	Marissa C Drexinger	1
14070	14 PFAS PW Water	EPA 537 Version 1.1	1	18362013	01/08/2019 16:51	Joshua P Trost	10
14381	DW PFAS Prep	EPA 537 Version 1.1	1	18362013	12/29/2018 06:00	Robert Brown	1

*=This limit was used in the evaluation of the final result

Sample Description: DIL-06 Grab Water
Alaska DEC

Project Name: Alaska DEC

Submittal Date/Time: 12/21/2018 11:20
Collection Date/Time: 12/17/2018 11:50
SDG#: TAK30-06

TestAmerica
ELLE Sample #: WW 9953231
ELLE Group #: 2021414
Matrix: Water

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
LC/MS/MS Miscellaneous	**EPA 537 Version 1.1**		**ng/l**	**ng/l**	**ng/l**	
14070	NEtFOSAA	2991-50-6	N.D.	0.43	1.7	1
	NEtFOSAA is the acronym for N-ethyl perfluorooctanesulfonamidoacetic Acid.					
14070	NMeFOSAA	2355-31-9	N.D.	0.43	1.7	1
	NMeFOSAA is the acronym for N-methyl perfluorooctanesulfonamidoacetic Acid.					
14070	Perfluorobutanesulfonate	375-73-5	54	0.43	1.7	1
14070	Perfluorodecanoic acid	335-76-2	N.D.	0.43	1.7	1
14070	Perfluorododecanoic acid	307-55-1	N.D.	0.43	1.7	1
14070	Perfluoroheptanoic acid	375-85-9	3.3	0.43	1.7	1
14070	Perfluorohexanesulfonate	355-46-4	130	4.3	17	10
14070	Perfluorohexanoic acid	307-24-4	39	0.43	1.7	1
14070	Perfluorononanoic acid	375-95-1	N.D.	0.43	1.7	1
14070	Perfluoro-octanesulfonate	1763-23-1	36	0.43	1.7	1
14070	Perfluorooctanoic acid	335-67-1	4.8	0.43	1.7	1
14070	Perfluorotetradecanoic acid	376-06-7	N.D.	0.43	1.7	1
14070	Perfluorotridecanoic acid	72629-94-8	N.D.	0.43	1.7	1
14070	Perfluoroundecanoic acid	2058-94-8	N.D.	0.43	1.7	1

Sample Comments

State of Alaska Lab Certification No. UST-061

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14070	14 PFAS PW Water	EPA 537 Version 1.1	1	18362013	01/05/2019 20:20	Marissa C Drexinger	1
14070	14 PFAS PW Water	EPA 537 Version 1.1	1	18362013	01/08/2019 17:02	Joshua P Trost	10
14381	DW PFAS Prep	EPA 537 Version 1.1	1	18362013	12/29/2018 06:00	Robert Brown	1

*=This limit was used in the evaluation of the final result

Sample Description: DIL-07 Grab Water
Alaska DEC

Project Name: Alaska DEC

Submittal Date/Time: 12/21/2018 11:20
Collection Date/Time: 12/17/2018 13:30
SDG#: TAK30-07

TestAmerica
ELLE Sample #: WW 9953232
ELLE Group #: 2021414
Matrix: Water

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
LC/MS/MS Miscellaneous	**EPA 537 Version 1.1**		**ng/l**	**ng/l**	**ng/l**	
14070	NEtFOSAA	2991-50-6	N.D.	0.43	1.7	1
	NEtFOSAA is the acronym for N-ethyl perfluorooctanesulfonamidoacetic Acid.					
14070	NMeFOSAA	2355-31-9	N.D.	0.43	1.7	1
	NMeFOSAA is the acronym for N-methyl perfluorooctanesulfonamidoacetic Acid.					
14070	Perfluorobutanesulfonate	375-73-5	0.47 J	0.43	1.7	1
14070	Perfluorodecanoic acid	335-76-2	N.D.	0.43	1.7	1
14070	Perfluorododecanoic acid	307-55-1	N.D.	0.43	1.7	1
14070	Perfluoroheptanoic acid	375-85-9	N.D.	0.43	1.7	1
14070	Perfluorohexanesulfonate	355-46-4	N.D.	0.43	1.7	1
14070	Perfluorohexanoic acid	307-24-4	N.D.	0.43	1.7	1
14070	Perfluorononanoic acid	375-95-1	N.D.	0.43	1.7	1
14070	Perfluoro-octanesulfonate	1763-23-1	N.D.	0.43	1.7	1
14070	Perfluorooctanoic acid	335-67-1	N.D.	0.43	1.7	1
14070	Perfluorotetradecanoic acid	376-06-7	N.D.	0.43	1.7	1
14070	Perfluorotridecanoic acid	72629-94-8	N.D.	0.43	1.7	1
14070	Perfluoroundecanoic acid	2058-94-8	N.D.	0.43	1.7	1

Sample Comments

State of Alaska Lab Certification No. UST-061

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14070	14 PFAS PW Water	EPA 537 Version 1.1	1	18362013	01/05/2019 20:32	Marissa C Drexinger	1
14381	DW PFAS Prep	EPA 537 Version 1.1	1	18362013	12/29/2018 06:00	Robert Brown	1

*=This limit was used in the evaluation of the final result

Sample Description: **DIL-08 Grab Water**
Alaska DEC

Project Name: **Alaska DEC**

Submittal Date/Time: 12/21/2018 11:20
Collection Date/Time: 12/17/2018 14:00
SDG#: TAK30-08

TestAmerica
ELLE Sample #: **WW 9953233**
ELLE Group #: **2021414**
Matrix: Water

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
LC/MS/MS Miscellaneous	**EPA 537 Version 1.1**		**ng/l**	**ng/l**	**ng/l**	
14070	NEtFOSAA	2991-50-6	N.D.	0.43	1.7	1
	NEtFOSAA is the acronym for N-ethyl perfluorooctanesulfonamidoacetic Acid.					
14070	NMeFOSAA	2355-31-9	N.D.	0.43	1.7	1
	NMeFOSAA is the acronym for N-methyl perfluorooctanesulfonamidoacetic Acid.					
14070	Perfluorobutanesulfonate	375-73-5	4.2	0.43	1.7	1
14070	Perfluorodecanoic acid	335-76-2	N.D.	0.43	1.7	1
14070	Perfluorododecanoic acid	307-55-1	N.D.	0.43	1.7	1
14070	Perfluoroheptanoic acid	375-85-9	1.3 J	0.43	1.7	1
14070	Perfluorohexanesulfonate	355-46-4	2.4	0.43	1.7	1
14070	Perfluorohexanoic acid	307-24-4	9.4	0.43	1.7	1
14070	Perfluorononanoic acid	375-95-1	N.D.	0.43	1.7	1
14070	Perfluoro-octanesulfonate	1763-23-1	N.D.	0.43	1.7	1
14070	Perfluorooctanoic acid	335-67-1	1.2 J	0.43	1.7	1
14070	Perfluorotetradecanoic acid	376-06-7	N.D.	0.43	1.7	1
14070	Perfluorotridecanoic acid	72629-94-8	N.D.	0.43	1.7	1
14070	Perfluoroundecanoic acid	2058-94-8	N.D.	0.43	1.7	1

Sample Comments

State of Alaska Lab Certification No. UST-061

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14070	14 PFAS PW Water	EPA 537 Version 1.1	1	18362013	01/05/2019 20:55	Marissa C Drexinger	1
14381	DW PFAS Prep	EPA 537 Version 1.1	1	18362013	12/29/2018 06:00	Robert Brown	1

*=This limit was used in the evaluation of the final result

Sample Description: DIL-09 Grab Water
Alaska DEC

Project Name: Alaska DEC

Submittal Date/Time: 12/21/2018 11:20
Collection Date/Time: 12/17/2018 14:20
SDG#: TAK30-09

TestAmerica
ELLE Sample #: WW 9953234
ELLE Group #: 2021414
Matrix: Water

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
LC/MS/MS Miscellaneous	**EPA 537 Version 1.1**		**ng/l**	**ng/l**	**ng/l**	
14070	NEtFOSAA	2991-50-6	N.D.	0.42	1.7	1
	NEtFOSAA is the acronym for N-ethyl perfluorooctanesulfonamidoacetic Acid.					
14070	NMeFOSAA	2355-31-9	N.D.	0.42	1.7	1
	NMeFOSAA is the acronym for N-methyl perfluorooctanesulfonamidoacetic Acid.					
14070	Perfluorobutanesulfonate	375-73-5	2.5	0.42	1.7	1
14070	Perfluorodecanoic acid	335-76-2	N.D.	0.42	1.7	1
14070	Perfluorododecanoic acid	307-55-1	N.D.	0.42	1.7	1
14070	Perfluoroheptanoic acid	375-85-9	0.85 J	0.42	1.7	1
14070	Perfluorohexanesulfonate	355-46-4	12	0.42	1.7	1
14070	Perfluorohexanoic acid	307-24-4	4.0	0.42	1.7	1
14070	Perfluorononanoic acid	375-95-1	N.D.	0.42	1.7	1
14070	Perfluoro-octanesulfonate	1763-23-1	5.0	0.42	1.7	1
14070	Perfluorooctanoic acid	335-67-1	2.0	0.42	1.7	1
14070	Perfluorotetradecanoic acid	376-06-7	N.D.	0.42	1.7	1
14070	Perfluorotridecanoic acid	72629-94-8	N.D.	0.42	1.7	1
14070	Perfluoroundecanoic acid	2058-94-8	N.D.	0.42	1.7	1

Sample Comments

State of Alaska Lab Certification No. UST-061

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14070	14 PFAS PW Water	EPA 537 Version 1.1	1	18362013	01/05/2019 21:07	Marissa C Drexinger	1
14381	DW PFAS Prep	EPA 537 Version 1.1	1	18362013	12/29/2018 06:00	Robert Brown	1

*=This limit was used in the evaluation of the final result

2426 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-6766 • www.EurofinsUS.com/LancLabsEnv

Sample Description: **DIL-10 Grab Water**
Alaska DEC

Project Name: **Alaska DEC**

Submittal Date/Time: 12/21/2018 11:20
Collection Date/Time: 12/17/2018 15:15
SDG#: TAK30-10

TestAmerica
ELLE Sample #: **WW 9953235**
ELLE Group #: **2021414**
Matrix: Water

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
LC/MS/MS Miscellaneous	**EPA 537 Version 1.1**		**ng/l**	**ng/l**	**ng/l**	
14070	NEtFOSAA	2991-50-6	N.D.	0.45	1.8	1
	NEtFOSAA is the acronym for N-ethyl perfluorooctanesulfonamidoacetic Acid.					
14070	NMeFOSAA	2355-31-9	N.D.	0.45	1.8	1
	NMeFOSAA is the acronym for N-methyl perfluorooctanesulfonamidoacetic Acid.					
14070	Perfluorobutanesulfonate	375-73-5	11	0.45	1.8	1
14070	Perfluorodecanoic acid	335-76-2	N.D.	0.45	1.8	1
14070	Perfluorododecanoic acid	307-55-1	N.D.	0.45	1.8	1
14070	Perfluoroheptanoic acid	375-85-9	9.7	0.45	1.8	1
14070	Perfluorohexanesulfonate	355-46-4	7.0	0.45	1.8	1
14070	Perfluorohexanoic acid	307-24-4	44	0.45	1.8	1
14070	Perfluorononanoic acid	375-95-1	N.D.	0.45	1.8	1
14070	Perfluoro-octanesulfonate	1763-23-1	N.D.	0.45	1.8	1
14070	Perfluorooctanoic acid	335-67-1	1.9	0.45	1.8	1
14070	Perfluorotetradecanoic acid	376-06-7	N.D.	0.45	1.8	1
14070	Perfluorotridecanoic acid	72629-94-8	N.D.	0.45	1.8	1
14070	Perfluoroundecanoic acid	2058-94-8	N.D.	0.45	1.8	1

Sample Comments

State of Alaska Lab Certification No. UST-061

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14070	14 PFAS PW Water	EPA 537 Version 1.1	1	18362013	01/05/2019 21:18	Marissa C Drexinger	1
14381	DW PFAS Prep	EPA 537 Version 1.1	1	18362013	12/29/2018 06:00	Robert Brown	1

*=This limit was used in the evaluation of the final result

Sample Description: KIN-01 Grab Water
Alaska DEC

Project Name: Alaska DEC

Submittal Date/Time: 12/21/2018 11:20
Collection Date/Time: 12/18/2018 14:50
SDG#: TAK30-11

TestAmerica
ELLE Sample #: WW 9953236
ELLE Group #: 2021414
Matrix: Water

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
LC/MS/MS Miscellaneous	**EPA 537 Version 1.1**		**ng/l**	**ng/l**	**ng/l**	
14070	NEtFOSAA	2991-50-6	N.D.	0.42	1.7	1
	NEtFOSAA is the acronym for N-ethyl perfluorooctanesulfonamidoacetic Acid.					
14070	NMeFOSAA	2355-31-9	N.D.	0.42	1.7	1
	NMeFOSAA is the acronym for N-methyl perfluorooctanesulfonamidoacetic Acid.					
14070	Perfluorobutanesulfonate	375-73-5	3.4	0.42	1.7	1
14070	Perfluorodecanoic acid	335-76-2	N.D.	0.42	1.7	1
14070	Perfluorododecanoic acid	307-55-1	N.D.	0.42	1.7	1
14070	Perfluoroheptanoic acid	375-85-9	0.87 J	0.42	1.7	1
14070	Perfluorohexanesulfonate	355-46-4	1.2 J	0.42	1.7	1
14070	Perfluorohexanoic acid	307-24-4	7.5	0.42	1.7	1
14070	Perfluorononanoic acid	375-95-1	N.D.	0.42	1.7	1
14070	Perfluoro-octanesulfonate	1763-23-1	N.D.	0.42	1.7	1
14070	Perfluorooctanoic acid	335-67-1	2.4	0.42	1.7	1
14070	Perfluorotetradecanoic acid	376-06-7	N.D.	0.42	1.7	1
14070	Perfluorotridecanoic acid	72629-94-8	N.D.	0.42	1.7	1
14070	Perfluoroundecanoic acid	2058-94-8	N.D.	0.42	1.7	1

Sample Comments

State of Alaska Lab Certification No. UST-061

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14070	14 PFAS PW Water	EPA 537 Version 1.1	1	18362013	01/05/2019 21:30	Marissa C Drexinger	1
14381	DW PFAS Prep	EPA 537 Version 1.1	1	18362013	12/29/2018 06:00	Robert Brown	1

*=This limit was used in the evaluation of the final result

Sample Description: KIN-02 (field blank) Grab Water
Alaska DEC

Project Name: Alaska DEC

TestAmerica
ELLE Sample #: WW 9953237
ELLE Group #: 2021414
Matrix: Water

Submittal Date/Time: 12/21/2018 11:20
Collection Date/Time: 12/18/2018 14:50
SDG#: TAK30-12FB

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
LC/MS/MS Miscellaneous	**EPA 537 Version 1.1**		**ng/l**	**ng/l**	**ng/l**	
14070	NEtFOSAA	2991-50-6	N.D.	0.42	1.7	1
	NEtFOSAA is the acronym for N-ethyl perfluorooctanesulfonamidoacetic Acid.					
14070	NMeFOSAA	2355-31-9	N.D.	0.42	1.7	1
	NMeFOSAA is the acronym for N-methyl perfluorooctanesulfonamidoacetic Acid.					
14070	Perfluorobutanesulfonate	375-73-5	N.D.	0.42	1.7	1
14070	Perfluorodecanoic acid	335-76-2	N.D.	0.42	1.7	1
14070	Perfluorododecanoic acid	307-55-1	N.D.	0.42	1.7	1
14070	Perfluoroheptanoic acid	375-85-9	N.D.	0.42	1.7	1
14070	Perfluorohexanesulfonate	355-46-4	N.D.	0.42	1.7	1
14070	Perfluorohexanoic acid	307-24-4	N.D.	0.42	1.7	1
14070	Perfluorononanoic acid	375-95-1	N.D.	0.42	1.7	1
14070	Perfluoro-octanesulfonate	1763-23-1	N.D.	0.42	1.7	1
14070	Perfluorooctanoic acid	335-67-1	N.D.	0.42	1.7	1
14070	Perfluorotetradecanoic acid	376-06-7	N.D.	0.42	1.7	1
14070	Perfluorotridecanoic acid	72629-94-8	N.D.	0.42	1.7	1
14070	Perfluoroundecanoic acid	2058-94-8	N.D.	0.42	1.7	1

Sample Comments

State of Alaska Lab Certification No. UST-061

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14070	14 PFAS PW Water	EPA 537 Version 1.1	1	18362013	01/05/2019 21:41	Marissa C Drexinger	1
14381	DW PFAS Prep	EPA 537 Version 1.1	1	18362013	12/29/2018 06:00	Robert Brown	1

*=This limit was used in the evaluation of the final result

2426 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-6766 • www.EurofinsUS.com/LancLabsEnv

Sample Description: KIN-03 Grab Water
Alaska DEC

Project Name: Alaska DEC

Submittal Date/Time: 12/21/2018 11:20
Collection Date/Time: 12/18/2018 15:10
SDG#: TAK30-13

TestAmerica
ELLE Sample #: WW 9953238
ELLE Group #: 2021414
Matrix: Water

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
LC/MS/MS Miscellaneous	**EPA 537 Version 1.1**		**ng/l**	**ng/l**	**ng/l**	
14070	NEtFOSAA	2991-50-6	N.D.	0.43	1.7	1
	NEtFOSAA is the acronym for N-ethyl perfluorooctanesulfonamidoacetic Acid.					
14070	NMeFOSAA	2355-31-9	N.D.	0.43	1.7	1
	NMeFOSAA is the acronym for N-methyl perfluorooctanesulfonamidoacetic Acid.					
14070	Perfluorobutanesulfonate	375-73-5	56	0.43	1.7	1
14070	Perfluorodecanoic acid	335-76-2	N.D.	0.43	1.7	1
14070	Perfluorododecanoic acid	307-55-1	N.D.	0.43	1.7	1
14070	Perfluoroheptanoic acid	375-85-9	17	0.43	1.7	1
14070	Perfluorohexanesulfonate	355-46-4	75	4.3	17	10
14070	Perfluorohexanoic acid	307-24-4	110	4.3	17	10
14070	Perfluorononanoic acid	375-95-1	N.D.	0.43	1.7	1
14070	Perfluoro-octanesulfonate	1763-23-1	1.2 J	0.43	1.7	1
14070	Perfluorooctanoic acid	335-67-1	62	4.3	17	10
14070	Perfluorotetradecanoic acid	376-06-7	N.D.	0.43	1.7	1
14070	Perfluorotridecanoic acid	72629-94-8	N.D.	0.43	1.7	1
14070	Perfluoroundecanoic acid	2058-94-8	N.D.	0.43	1.7	1

Sample Comments

State of Alaska Lab Certification No. UST-061

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14070	14 PFAS PW Water	EPA 537 Version 1.1	1	18362013	01/05/2019 21:53	Marissa C Drexinger	1
14070	14 PFAS PW Water	EPA 537 Version 1.1	1	18362013	01/08/2019 17:14	Joshua P Trost	10
14381	DW PFAS Prep	EPA 537 Version 1.1	1	18362013	12/29/2018 06:00	Robert Brown	1

*=This limit was used in the evaluation of the final result

2426 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-6766 • www.EurofinsUS.com/LancLabsEnv

Sample Description: KIN-04 Grab Water
Alaska DEC

Project Name: Alaska DEC

Submittal Date/Time: 12/21/2018 11:20
Collection Date/Time: 12/18/2018 15:10
SDG#: TAK30-14

TestAmerica
ELLE Sample #: WW 9953239
ELLE Group #: 2021414
Matrix: Water

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
LC/MS/MS Miscellaneous	**EPA 537 Version 1.1**		**ng/l**	**ng/l**	**ng/l**	
14070	NEtFOSAA	2991-50-6	N.D.	0.44	1.7	1
	NEtFOSAA is the acronym for N-ethyl perfluorooctanesulfonamidoacetic Acid.					
14070	NMeFOSAA	2355-31-9	N.D.	0.44	1.7	1
	NMeFOSAA is the acronym for N-methyl perfluorooctanesulfonamidoacetic Acid.					
14070	Perfluorobutanesulfonate	375-73-5	51	4.4	17	10
14070	Perfluorodecanoic acid	335-76-2	N.D.	0.44	1.7	1
14070	Perfluorododecanoic acid	307-55-1	N.D.	0.44	1.7	1
14070	Perfluoroheptanoic acid	375-85-9	17	0.44	1.7	1
14070	Perfluorohexanesulfonate	355-46-4	72	4.4	17	10
14070	Perfluorohexanoic acid	307-24-4	99	4.4	17	10
14070	Perfluorononanoic acid	375-95-1	N.D.	0.44	1.7	1
14070	Perfluoro-octanesulfonate	1763-23-1	1.4 J	0.44	1.7	1
14070	Perfluorooctanoic acid	335-67-1	62	4.4	17	10
14070	Perfluorotetradecanoic acid	376-06-7	N.D.	0.44	1.7	1
14070	Perfluorotridecanoic acid	72629-94-8	N.D.	0.44	1.7	1
14070	Perfluoroundecanoic acid	2058-94-8	N.D.	0.44	1.7	1

Sample Comments

State of Alaska Lab Certification No. UST-061

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14070	14 PFAS PW Water	EPA 537 Version 1.1	1	18362013	01/05/2019 22:05	Marissa C Drexinger	1
14070	14 PFAS PW Water	EPA 537 Version 1.1	1	18362013	01/08/2019 17:26	Joshua P Trost	10
14381	DW PFAS Prep	EPA 537 Version 1.1	1	18362013	12/29/2018 06:00	Robert Brown	1

*=This limit was used in the evaluation of the final result

Sample Description: KIN-05 Grab Water
Alaska DEC

Project Name: Alaska DEC

Submittal Date/Time: 12/21/2018 11:20
Collection Date/Time: 12/18/2018 15:50
SDG#: TAK30-15

TestAmerica
ELLE Sample #: WW 9953240
ELLE Group #: 2021414
Matrix: Water

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
LC/MS/MS Miscellaneous	**EPA 537 Version 1.1**		**ng/l**	**ng/l**	**ng/l**	
14070	NEtFOSAA	2991-50-6	N.D.	0.43	1.7	1
	NEtFOSAA is the acronym for N-ethyl perfluorooctanesulfonamidoacetic Acid.					
14070	NMeFOSAA	2355-31-9	N.D.	0.43	1.7	1
	NMeFOSAA is the acronym for N-methyl perfluorooctanesulfonamidoacetic Acid.					
14070	Perfluorobutanesulfonate	375-73-5	0.96 J	0.43	1.7	1
14070	Perfluorodecanoic acid	335-76-2	N.D.	0.43	1.7	1
14070	Perfluorododecanoic acid	307-55-1	N.D.	0.43	1.7	1
14070	Perfluoroheptanoic acid	375-85-9	0.77 J	0.43	1.7	1
14070	Perfluorohexanesulfonate	355-46-4	1.8	0.43	1.7	1
14070	Perfluorohexanoic acid	307-24-4	2.1	0.43	1.7	1
14070	Perfluorononanoic acid	375-95-1	N.D.	0.43	1.7	1
14070	Perfluoro-octanesulfonate	1763-23-1	N.D.	0.43	1.7	1
14070	Perfluorooctanoic acid	335-67-1	2.0	0.43	1.7	1
14070	Perfluorotetradecanoic acid	376-06-7	N.D.	0.43	1.7	1
14070	Perfluorotridecanoic acid	72629-94-8	N.D.	0.43	1.7	1
14070	Perfluoroundecanoic acid	2058-94-8	N.D.	0.43	1.7	1

Sample Comments

State of Alaska Lab Certification No. UST-061

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14070	14 PFAS PW Water	EPA 537 Version 1.1	1	18362013	01/05/2019 22:16	Marissa C Drexinger	1
14381	DW PFAS Prep	EPA 537 Version 1.1	1	18362013	12/29/2018 06:00	Robert Brown	1

*=This limit was used in the evaluation of the final result

Sample Description: KIN-06 Grab Water
Alaska DEC

Project Name: Alaska DEC

Submittal Date/Time: 12/21/2018 11:20
Collection Date/Time: 12/18/2018 16:10
SDG#: TAK30-16

TestAmerica
ELLE Sample #: WW 9953241
ELLE Group #: 2021414
Matrix: Water

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
LC/MS/MS Miscellaneous	**EPA 537 Version 1.1**		**ng/l**	**ng/l**	**ng/l**	
14070	NEtFOSAA	2991-50-6	N.D.	0.43	1.7	1
	NEtFOSAA is the acronym for N-ethyl perfluorooctanesulfonamidoacetic Acid.					
14070	NMeFOSAA	2355-31-9	N.D.	0.43	1.7	1
	NMeFOSAA is the acronym for N-methyl perfluorooctanesulfonamidoacetic Acid.					
14070	Perfluorobutanesulfonate	375-73-5	N.D.	0.43	1.7	1
14070	Perfluorodecanoic acid	335-76-2	N.D.	0.43	1.7	1
14070	Perfluorododecanoic acid	307-55-1	N.D.	0.43	1.7	1
14070	Perfluoroheptanoic acid	375-85-9	N.D.	0.43	1.7	1
14070	Perfluorohexanesulfonate	355-46-4	N.D.	0.43	1.7	1
14070	Perfluorohexanoic acid	307-24-4	1.6 J	0.43	1.7	1
14070	Perfluorononanoic acid	375-95-1	N.D.	0.43	1.7	1
14070	Perfluoro-octanesulfonate	1763-23-1	N.D.	0.43	1.7	1
14070	Perfluorooctanoic acid	335-67-1	2.0	0.43	1.7	1
14070	Perfluorotetradecanoic acid	376-06-7	N.D.	0.43	1.7	1
14070	Perfluorotridecanoic acid	72629-94-8	N.D.	0.43	1.7	1
14070	Perfluoroundecanoic acid	2058-94-8	N.D.	0.43	1.7	1

Sample Comments

State of Alaska Lab Certification No. UST-061

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14070	14 PFAS PW Water	EPA 537 Version 1.1	1	18362013	01/05/2019 22:28	Marissa C Drexinger	1
14381	DW PFAS Prep	EPA 537 Version 1.1	1	18362013	12/29/2018 06:00	Robert Brown	1

*=This limit was used in the evaluation of the final result

Sample Description: KIN-07 Grab Water
Alaska DEC

Project Name: Alaska DEC

Submittal Date/Time: 12/21/2018 11:20
Collection Date/Time: 12/18/2018 16:40
SDG#: TAK30-17

TestAmerica
ELLE Sample #: WW 9953242
ELLE Group #: 2021414
Matrix: Water

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
LC/MS/MS Miscellaneous	**EPA 537 Version 1.1**		**ng/l**	**ng/l**	**ng/l**	
14070	NEtFOSAA	2991-50-6	N.D.	0.42	1.7	1
	NEtFOSAA is the acronym for N-ethyl perfluorooctanesulfonamidoacetic Acid.					
14070	NMeFOSAA	2355-31-9	N.D.	0.42	1.7	1
	NMeFOSAA is the acronym for N-methyl perfluorooctanesulfonamidoacetic Acid.					
14070	Perfluorobutanesulfonate	375-73-5	0.55 J	0.42	1.7	1
14070	Perfluorodecanoic acid	335-76-2	N.D.	0.42	1.7	1
14070	Perfluorododecanoic acid	307-55-1	N.D.	0.42	1.7	1
14070	Perfluoroheptanoic acid	375-85-9	3.3	0.42	1.7	1
14070	Perfluorohexanesulfonate	355-46-4	2.1	0.42	1.7	1
14070	Perfluorohexanoic acid	307-24-4	3.1	0.42	1.7	1
14070	Perfluorononanoic acid	375-95-1	N.D.	0.42	1.7	1
14070	Perfluoro-octanesulfonate	1763-23-1	N.D.	0.42	1.7	1
14070	Perfluorooctanoic acid	335-67-1	2.9	0.42	1.7	1
14070	Perfluorotetradecanoic acid	376-06-7	N.D.	0.42	1.7	1
14070	Perfluorotridecanoic acid	72629-94-8	N.D.	0.42	1.7	1
14070	Perfluoroundecanoic acid	2058-94-8	N.D.	0.42	1.7	1

Sample Comments

State of Alaska Lab Certification No. UST-061

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14070	14 PFAS PW Water	EPA 537 Version 1.1	1	18362013	01/05/2019 22:39	Marissa C Drexinger	1
14381	DW PFAS Prep	EPA 537 Version 1.1	1	18362013	12/29/2018 06:00	Robert Brown	1

*=This limit was used in the evaluation of the final result

2426 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-6766 • www.EurofinsUS.com/LancLabsEnv

Sample Description: KIN-08 Grab Water
Alaska DEC

Project Name: Alaska DEC

Submittal Date/Time: 12/21/2018 11:20
Collection Date/Time: 12/18/2018 16:45
SDG#: TAK30-18

TestAmerica
ELLE Sample #: WW 9953243
ELLE Group #: 2021414
Matrix: Water

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
LC/MS/MS Miscellaneous	**EPA 537 Version 1.1**		**ng/l**	**ng/l**	**ng/l**	
14070	NEtFOSAA	2991-50-6	N.D.	0.44	1.8	1
	NEtFOSAA is the acronym for N-ethyl perfluorooctanesulfonamidoacetic Acid.					
14070	NMeFOSAA	2355-31-9	N.D.	0.44	1.8	1
	NMeFOSAA is the acronym for N-methyl perfluorooctanesulfonamidoacetic Acid.					
14070	Perfluorobutanesulfonate	375-73-5	1.5 J	0.44	1.8	1
14070	Perfluorodecanoic acid	335-76-2	N.D.	0.44	1.8	1
14070	Perfluorododecanoic acid	307-55-1	N.D.	0.44	1.8	1
14070	Perfluoroheptanoic acid	375-85-9	1.1 J	0.44	1.8	1
14070	Perfluorohexanesulfonate	355-46-4	2.4	0.44	1.8	1
14070	Perfluorohexanoic acid	307-24-4	5.3	0.44	1.8	1
14070	Perfluorononanoic acid	375-95-1	N.D.	0.44	1.8	1
14070	Perfluoro-octanesulfonate	1763-23-1	N.D.	0.44	1.8	1
14070	Perfluorooctanoic acid	335-67-1	5.0	0.44	1.8	1
14070	Perfluorotetradecanoic acid	376-06-7	N.D.	0.44	1.8	1
14070	Perfluorotridecanoic acid	72629-94-8	N.D.	0.44	1.8	1
14070	Perfluoroundecanoic acid	2058-94-8	N.D.	0.44	1.8	1

Sample Comments

State of Alaska Lab Certification No. UST-061

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14070	14 PFAS PW Water	EPA 537 Version 1.1	1	18362013	01/05/2019 23:03	Marissa C Drexinger	1
14381	DW PFAS Prep	EPA 537 Version 1.1	1	18362013	12/29/2018 06:00	Robert Brown	1

*=This limit was used in the evaluation of the final result

Sample Description: KIN-09 Grab Water
Alaska DEC

Project Name: Alaska DEC

Submittal Date/Time: 12/21/2018 11:20
Collection Date/Time: 12/18/2018 17:00
SDG#: TAK30-19

TestAmerica
ELLE Sample #: WW 9953244
ELLE Group #: 2021414
Matrix: Water

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
LC/MS/MS Miscellaneous	**EPA 537 Version 1.1**		**ng/l**	**ng/l**	**ng/l**	
14070	NEtFOSAA	2991-50-6	N.D.	0.44	1.8	1
	NEtFOSAA is the acronym for N-ethyl perfluorooctanesulfonamidoacetic Acid.					
14070	NMeFOSAA	2355-31-9	N.D.	0.44	1.8	1
	NMeFOSAA is the acronym for N-methyl perfluorooctanesulfonamidoacetic Acid.					
14070	Perfluorobutanesulfonate	375-73-5	0.73 J	0.44	1.8	1
14070	Perfluorodecanoic acid	335-76-2	N.D.	0.44	1.8	1
14070	Perfluorododecanoic acid	307-55-1	N.D.	0.44	1.8	1
14070	Perfluoroheptanoic acid	375-85-9	0.99 J	0.44	1.8	1
14070	Perfluorohexanesulfonate	355-46-4	2.0	0.44	1.8	1
14070	Perfluorohexanoic acid	307-24-4	4.6	0.44	1.8	1
14070	Perfluorononanoic acid	375-95-1	N.D.	0.44	1.8	1
14070	Perfluoro-octanesulfonate	1763-23-1	N.D.	0.44	1.8	1
14070	Perfluorooctanoic acid	335-67-1	5.7	0.44	1.8	1
14070	Perfluorotetradecanoic acid	376-06-7	N.D.	0.44	1.8	1
14070	Perfluorotridecanoic acid	72629-94-8	N.D.	0.44	1.8	1
14070	Perfluoroundecanoic acid	2058-94-8	N.D.	0.44	1.8	1

Sample Comments

State of Alaska Lab Certification No. UST-061

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14070	14 PFAS PW Water	EPA 537 Version 1.1	1	18362013	01/05/2019 23:14	Marissa C Drexinger	1
14381	DW PFAS Prep	EPA 537 Version 1.1	1	18362013	12/29/2018 06:00	Robert Brown	1

*=This limit was used in the evaluation of the final result

Sample Description: KIN-10 Grab Water
Alaska DEC

Project Name: Alaska DEC

Submittal Date/Time: 12/21/2018 11:20
Collection Date/Time: 12/18/2018 17:30
SDG#: TAK30-20

TestAmerica
ELLE Sample #: WW 9953245
ELLE Group #: 2021414
Matrix: Water

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
LC/MS/MS Miscellaneous	**EPA 537 Version 1.1**		**ng/l**	**ng/l**	**ng/l**	
14070	NEtFOSAA	2991-50-6	N.D.	0.42	1.7	1
	NEtFOSAA is the acronym for N-ethyl perfluorooctanesulfonamidoacetic Acid.					
14070	NMeFOSAA	2355-31-9	N.D.	0.42	1.7	1
	NMeFOSAA is the acronym for N-methyl perfluorooctanesulfonamidoacetic Acid.					
14070	Perfluorobutanesulfonate	375-73-5	N.D.	0.42	1.7	1
14070	Perfluorodecanoic acid	335-76-2	N.D.	0.42	1.7	1
14070	Perfluorododecanoic acid	307-55-1	N.D.	0.42	1.7	1
14070	Perfluoroheptanoic acid	375-85-9	N.D.	0.42	1.7	1
14070	Perfluorohexanesulfonate	355-46-4	N.D.	0.42	1.7	1
14070	Perfluorohexanoic acid	307-24-4	0.50 J	0.42	1.7	1
14070	Perfluorononanoic acid	375-95-1	N.D.	0.42	1.7	1
14070	Perfluoro-octanesulfonate	1763-23-1	N.D.	0.42	1.7	1
14070	Perfluorooctanoic acid	335-67-1	0.55 J	0.42	1.7	1
14070	Perfluorotetradecanoic acid	376-06-7	N.D.	0.42	1.7	1
14070	Perfluorotridecanoic acid	72629-94-8	N.D.	0.42	1.7	1
14070	Perfluoroundecanoic acid	2058-94-8	N.D.	0.42	1.7	1

Sample Comments

State of Alaska Lab Certification No. UST-061

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14070	14 PFAS PW Water	EPA 537 Version 1.1	1	18362013	01/05/2019 23:26	Marissa C Drexinger	1
14381	DW PFAS Prep	EPA 537 Version 1.1	1	18362013	12/29/2018 06:00	Robert Brown	1

*=This limit was used in the evaluation of the final result

Sample Description: KIN-11 Grab Water
Alaska DEC

Project Name: Alaska DEC

Submittal Date/Time: 12/21/2018 11:20
Collection Date/Time: 12/19/2018 10:15
SDG#: TAK30-21

TestAmerica
ELLE Sample #: WW 9953246
ELLE Group #: 2021414
Matrix: Water

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
LC/MS/MS Miscellaneous	**EPA 537 Version 1.1**		**ng/l**	**ng/l**	**ng/l**	
14070	NEtFOSAA	2991-50-6	N.D.	0.46	1.8	1
	NEtFOSAA is the acronym for N-ethyl perfluorooctanesulfonamidoacetic Acid.					
14070	NMeFOSAA	2355-31-9	N.D.	0.46	1.8	1
	NMeFOSAA is the acronym for N-methyl perfluorooctanesulfonamidoacetic Acid.					
14070	Perfluorobutanesulfonate	375-73-5	0.76 J	0.46	1.8	1
14070	Perfluorodecanoic acid	335-76-2	N.D.	0.46	1.8	1
14070	Perfluorododecanoic acid	307-55-1	N.D.	0.46	1.8	1
14070	Perfluoroheptanoic acid	375-85-9	0.87 J	0.46	1.8	1
14070	Perfluorohexanesulfonate	355-46-4	2.3	0.46	1.8	1
14070	Perfluorohexanoic acid	307-24-4	4.9	0.46	1.8	1
14070	Perfluorononanoic acid	375-95-1	N.D.	0.46	1.8	1
14070	Perfluoro-octanesulfonate	1763-23-1	N.D.	0.46	1.8	1
14070	Perfluorooctanoic acid	335-67-1	6.0	0.46	1.8	1
14070	Perfluorotetradecanoic acid	376-06-7	N.D.	0.46	1.8	1
14070	Perfluorotridecanoic acid	72629-94-8	N.D.	0.46	1.8	1
14070	Perfluoroundecanoic acid	2058-94-8	N.D.	0.46	1.8	1

Sample Comments

State of Alaska Lab Certification No. UST-061

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14070	14 PFAS PW Water	EPA 537 Version 1.1	1	18363006	01/04/2019 02:39	Marissa C Drexinger	1
14381	DW PFAS Prep	EPA 537 Version 1.1	1	18363006	12/30/2018 16:00	Anthony C Polaski	1

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: TestAmerica
Reported: 01/14/2019 11:17

Group Number: 2021414

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Method Blank

Analysis Name	Result	MDL**	LOQ
	ng/l	ng/l	ng/l
Batch number: 18362013	Sample number(s): 9953226-9953245		
NEtFOSAA	N.D.	0.50	2.0
NMeFOSAA	N.D.	0.50	2.0
Perfluorobutanesulfonate	N.D.	0.50	2.0
Perfluorodecanoic acid	N.D.	0.50	2.0
Perfluorododecanoic acid	N.D.	0.50	2.0
Perfluoroheptanoic acid	N.D.	0.50	2.0
Perfluorohexanesulfonate	N.D.	0.50	2.0
Perfluorohexanoic acid	N.D.	0.50	2.0
Perfluorononanoic acid	N.D.	0.50	2.0
Perfluoro-octanesulfonate	N.D.	0.50	2.0
Perfluorooctanoic acid	N.D.	0.50	2.0
Perfluorotetradecanoic acid	N.D.	0.50	2.0
Perfluorotridecanoic acid	N.D.	0.50	2.0
Perfluoroundecanoic acid	N.D.	0.50	2.0
Batch number: 18363006	Sample number(s): 9953246		
NEtFOSAA	N.D.	0.50	2.0
NMeFOSAA	N.D.	0.50	2.0
Perfluorobutanesulfonate	N.D.	0.50	2.0
Perfluorodecanoic acid	N.D.	0.50	2.0
Perfluorododecanoic acid	N.D.	0.50	2.0
Perfluoroheptanoic acid	N.D.	0.50	2.0
Perfluorohexanesulfonate	N.D.	0.50	2.0
Perfluorohexanoic acid	N.D.	0.50	2.0
Perfluorononanoic acid	N.D.	0.50	2.0
Perfluoro-octanesulfonate	N.D.	0.50	2.0
Perfluorooctanoic acid	N.D.	0.50	2.0
Perfluorotetradecanoic acid	N.D.	0.50	2.0
Perfluorotridecanoic acid	N.D.	0.50	2.0
Perfluoroundecanoic acid	N.D.	0.50	2.0

LCS/LCSD

Analysis Name	LCS Spike Added ng/l	LCS Conc ng/l	LCSD Spike Added ng/l	LCSD Conc ng/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: TestAmerica
Reported: 01/14/2019 11:17

Group Number: 2021414

LCS/LCSD

Analysis Name	LCS Spike Added ng/l	LCS Conc ng/l	LCSD Spike Added ng/l	LCSD Conc ng/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 18362013	Sample number(s): 9953226-9953245								
NEtFOSAA	80	96.93	80	88.19	121	110	70-130	9	30
NMeFOSAA	80	92.21	80	89.91	115	112	70-130	3	30
Perfluorobutanesulfonate	70.76	74.25	70.76	72.25	105	102	70-130	3	30
Perfluorodecanoic acid	80	88.68	80	83.54	111	104	70-130	6	30
Perfluorododecanoic acid	80	89.81	80	82.37	112	103	70-130	9	30
Perfluoroheptanoic acid	80	84.18	80	83.65	105	105	70-130	1	30
Perfluorohexanesulfonate	75.64	81.12	75.64	85.31	107	113	70-130	5	30
Perfluorohexanoic acid	80	82.76	80	83.45	103	104	70-130	1	30
Perfluorononanoic acid	80	83.17	80	83.37	104	104	70-130	0	30
Perfluoro-octanesulfonate	76.48	74.5	76.48	74.69	97	98	70-130	0	30
Perfluorooctanoic acid	80	87	80	82.61	109	103	70-130	5	30
Perfluorotetradecanoic acid	80	83.32	80	81.06	104	101	70-130	3	30
Perfluorotridecanoic acid	80	93.25	80	91.1	117	114	70-130	2	30
Perfluoroundecanoic acid	80	90.07	80	90.46	113	113	70-130	0	30
Batch number: 18363006	Sample number(s): 9953246								
NEtFOSAA	20	22.44			112		70-130		
NMeFOSAA	20	21.28			106		70-130		
Perfluorobutanesulfonate	18.12	17.2			95		70-130		
Perfluorodecanoic acid	20.48	21.08			103		70-130		
Perfluorododecanoic acid	20.48	20.88			102		70-130		
Perfluoroheptanoic acid	20.48	20.01			98		70-130		
Perfluorohexanesulfonate	19.36	19.37			100		70-130		
Perfluorohexanoic acid	20.48	19.61			96		70-130		
Perfluorononanoic acid	20.48	20.32			99		70-130		
Perfluoro-octanesulfonate	19.58	18.29			93		70-130		
Perfluorooctanoic acid	20.48	20.21			99		70-130		
Perfluorotetradecanoic acid	20.48	21.29			104		70-130		
Perfluorotridecanoic acid	20.48	20.5			100		70-130		
Perfluoroundecanoic acid	20.48	21.86			107		70-130		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

2426 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-6766 • www.EurofinsUS.com/LancLabsEnv

Quality Control Summary

Client Name: TestAmerica
Reported: 01/14/2019 11:17

Group Number: 2021414

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 14 PFAS PW Water
Batch number: 18362013

	13C2-PFHxA	13C2-PFDA	D5-NetFOSAA
9953226	103	104	95
9953227	99	105	105
9953228	96	94	96
9953229	98	102	91
9953230	100	102	106
9953231	100	103	102
9953232	100	107	104
9953233	92	93	100
9953234	115	113	114
9953235	87	108	112
9953236	99	102	95
9953237	114	113	112
9953238	91	96	89
9953239	104	108	115
9953240	103	109	105
9953241	109	118	120
9953242	117	125	116
9953243	125	123	130
9953244	114	107	127
9953245	102	98	97
Blank	101	102	100
LCS	95	101	103
LCSD	102	99	95
Limits:	70-130	70-130	70-130

Analysis Name: 14 PFAS PW Water
Batch number: 18363006

	13C2-PFHxA	13C2-PFDA	D5-NetFOSAA
9953246	93	93	88
Blank	95	100	97
LCS	97	107	94
Limits:	70-130	70-130	70-130

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

TestAmerica Sacramento
880 Riverside Parkway
West Sacramento, CA 95605
Phone: 916.373.5600 Fax:

30939 2071414 9953226-46 214965

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other: CERCLA

Client Contact	Project Manager: Annemarie Palmieri	Site Contact:	Date:	COC No:
Company Name: Alaska DEC	Tel/Fax: 907-746-3184	Lab Contact:	Carrier:	1 of 2 COCs
Address: 410 Willoughby Ave	Analysis Turnaround Time			Sampler:
City/State/Zip: Juneau, AK 99801	☐ CALENDAR DAYS 10 ☒ WORKING DAYS			For Lab Use Only:
Phone: 907-746-3184	TAT if different from Below _____			Walk-in Client:
Fax: 907-746-3185	☐ 2 weeks			Lab Sampling:
Project Name:	☐ 1 week			
Site:	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Method 537	Sample Specific Notes:
DIL-01	12-17-18	0940	G	WA	1	N		X	
DIL-02	12-17-18	1140	G	WA	1	N		X	
DIL-03	12-17-18	1110	G	WA	1	N		X	
DIL-04	12-17-18	1120	G	WA	1	N		X	
DIL-05	12-17-18	1150	G	WA	1	N		X	
DIL-06	12-17-18	1150	G	WA	1	N		X	
DIL-07	12-17-18	1330	G	WA	1	N		X	
DIL-08	12-17-18	1400	G	WA	1	N		X	
DIL-09	12-17-18	1420	G	WA	1	N		X	
DIL-10	12-17-18	1515	G	WA	1	N		X	
KIN-01	12-18-18	1450	G	WA	1	N		X	
KIN-02 (field blank)	12-18-18	1450	G	WA	1	N		X	

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

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

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

Special Instructions/QC Requirements & Comments:
email results to: annemarie.palmieri@alaska.gov

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temp. (°C): Obs'd: 5.0	Corr'd: _____	Therm ID No.: _____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	DEC	12/20/18 0900			
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:
			[signature]	ELLE	12-21-18 1120

1/16/2019

TestAmerica Sacramento
880 Riverside Parkway

West Sacramento, CA 95605
Phone: 916.373.5600 Fax:

30939 2021414 9953226 - 46

Chain of Custody Record

214966

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other: LEVELA

Client Contact	Project Manager: AnneMarie Palmieri	Site Contact:	Date:	COC No:
Company Name: Alaska Dept. of Env. Cons.	Tel/Fax: 907-7666-3184	Lab Contact:	Carrier:	2 of 2 COCs
Address: 410 Willoughby Ave.	Analysis Turnaround Time			Sampler:
City/State/Zip: Juneau, AK 99801	☐ CALENDAR DAYS 10 ☒ WORKING DAYS			For Lab Use Only:
Phone: 907-7666-3184	TAT if different from Below _____			Walk-in Client:
Fax: 907-7666-3185	☐ 2 weeks			Lab Sampling:
Project Name:	☐ 1 week			
Site:	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	537 / PFAS	Sample Specific Notes:
KIN-03	12/18/18	1510	G	WA	1	N		X	
KIN-04	12/18/18	1510	G	WA	1	N		X	
KIN-05	12/18/18	1550	G	WA	1	N		X	
KIN-06	12/18/18	1610	G	WA	1	N		X	
KIN-07	12/18/18	1640	G	WA	1	N		X	
KIN-08	12/18/18	1645	G	WA	1	N		X	
KIN-09 (Wrong Container AMP)	12/18/18	1700	G	WA	1	N		X	
KIN-10	12/18/18	1730	G	WA	1	N		X	
KIN-11	12/19/18	0815	G	WA	1	N		X	

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

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

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

Special Instructions/QC Requirements & Comments:
email results to: annemarie.palmieri@alaska.gov

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temp. (°C): Obs'd: 5.0	Corr'd: _____	Therm ID No.: _____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	DEC	12/20/18 0900	[signature]		
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]					
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:
			[signature]	ELE	12-21-18 1120

1/16/2019

Delivery and Receipt Information

Delivery Method:	Fed Ex	Arrival Timestamp:	12/21/2018 11:20
Number of Packages:	1	Number of Projects:	1
State/Province of Origin:	AK		

Arrival Condition Summary

Shipping Container Sealed:	Yes	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	Yes	Sample Date/Times match COC:	Yes
Custody Seal Intact:	Yes	VOA Vial Headspace ≥ 6mm:	N/A
Samples Chilled:	Yes	Total Trip Blank Qty:	0
Paperwork Enclosed:	Yes	Air Quality Samples Present:	No
Samples Intact:	Yes		
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Unpacked by Cory Jeremiah (10469) at 17:44 on 12/21/2018

Samples Chilled Details

Thermometer Types: DT = Digital (Temp. Bottle) IR = Infrared (Surface Temp) All Temperature

Cooler #	Thermometer ID	Corrected Temp	Therm. Type	Ice Type	Ice Present?	Ice Container	Elevated Temp?
1	DT42-02	5.0	DT	Wet	Y	Loose	N

2425 New Holland Pike
Lancaster, PA 17605-2425

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

BMQL	Below Minimum Quantitation Level	**mL**	milliliter(s)
C	degrees Celsius	**MPN**	Most Probable Number
cfu	colony forming units	**N.D.**	non-detect
CP Units	cobalt-chloroplatinate units	**ng**	nanogram(s)
F	degrees Fahrenheit	**NTU**	nephelometric turbidity units
g	gram(s)	**pg/L**	picogram/liter
IU	International Units	**RL**	Reporting Limit
kg	kilogram(s)	**TNTC**	Too Numerous To Count
L	liter(s)	**µg**	microgram(s)
lb.	pound(s)	**µL**	microliter(s)
m3	cubic meter(s)	**umhos/cm**	micromhos/cm
meq	milliequivalents	**MCL**	Maximum Contamination Limit
mg	milligram(s)		

<	less than
>	greater than
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.
ppb	parts per billion
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as “analyze immediately” are not performed within 15 minutes.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Data Qualifiers

Qualifier	Definition
C	Result confirmed by reanalysis
D1	Indicates for dual column analyses that the result is reported from column 1
D2	Indicates for dual column analyses that the result is reported from column 2
E	Concentration exceeds the calibration range
K1	Initial Calibration Blank is above the QC limit and the sample result is ND
K2	Continuing Calibration Blank is above the QC limit and the sample result is ND
K3	Initial Calibration Verification is above the QC limit and the sample result is ND
K4	Continuing Calibration Verification is above the QC limit and the sample result is ND
J (or G, I, X)	Estimated value >= the Method Detection Limit (MDL or DL) and < the Limit of Quantitation (LOQ or RL)
P	Concentration difference between the primary and confirmation column >40%. The lower result is reported.
P^	Concentration difference between the primary and confirmation column > 40%. The higher result is reported.
U	Analyte was not detected at the value indicated
V	Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to this disparity and evident interference.
W	The dissolved oxygen uptake for the unseeded blank is greater than 0.20 mg/L.
Z	Laboratory Defined - see analysis report

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods.
Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

TestAmerica Sacramento
880 Riverside Parkway

West Sacramento, CA 95605
Phone: 916.373.5600 Fax:

30434 207144 TDS226-46 214965

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

82900

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other: CERCLA

Client Contact	Project Manager: Annemarie Palmieri	Site Contact:	Date:	COC No:
Company Name: Alaska DEC	Tel/Fax: 907-746-3184	Lab Contact:	Carrier:	1 of 2 COCs
Address: 410 Willoughby Ave	Analysis Turnaround Time			Sampler:
City/State/Zip: Juneau, AK 99801	☐ CALENDAR DAYS 10 ☒ WORKING DAYS			For Lab Use Only:
Phone: 907-746-3184	TAT if different from Below _____			Walk-in Client:
Fax: 907-746-3185	☐ 2 weeks			Lab Sampling:
Project Name:	☐ 1 week			
Site:	☐ 2 days			Job / SDG No.:
PO #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Method 537	Sample Specific Notes:
1 DIL-01	12-17-18	0940	G	WA	1	N		X	
DIL-02	12-17-18	1040	G	WA	1	N		X	
3 DIL-03	12-17-18	1110	G	WA	1	N		X	
DIL-04	12-17-18	1120	G	WA	1	N		X	
5 DIL-05	12-17-18	1150	G	WA	1	N		X	
DIL-06	12-17-18	1150	G	WA	1	N		X	
7 DIL-07	12-17-18	1330	G	WA	1	N		X	
DIL-08	12-17-18	1400	G	WA	1	N		X	
9 DIL-09	12-17-18	1420	G	WA	1	N		X	
DIL-10	12-17-18	1515	G	WA	1	N		X	
11 KIN-01	12-18-18	1450	G	WA	1	N		X	
KIN-02 (field blank)	12-18-18	1450	G	WA	1	N		X	

580-82900 Chain of Custody

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

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

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

Special Instructions/QC Requirements & Comments:
email results to: annemarie.palmieri@alaska.gov

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: 5.0 Corr'd: _____ | Therm ID No.: _____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
H Cinclair	DEC	12/20/18 0900			
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: ELLE	Date/Time: 12-21-18 1120

TestAmerica Sacramento
880 Riverside Parkway

West Sacramento, CA 95605
Phone: 916.373.5600 Fax:

30934 2021414 4953226-46

Chain of Custody Record

214966

82900

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other: CERCLA

Client Contact	
Company Name: Alaska Dept. of Env. Cons.	Project Manager: AnneMarie Palmieri
Address: 410 Willoughby Ave	Tel/Fax: 907-766-3184
City/State/Zip: Juneau AK 99801	Analysis Turnaround Time: ☐ CALENDAR DAYS 10 ☒ WORKING DAYS
Phone: 907-766-3184	TAT if different from Below ___
Fax: 907-766-3185	☐ 2 weeks
Project Name:	☐ 1 week
Site:	☐ 2 days
P O #	☐ 1 day

Site Contact: | Date: | COC No: 2 of 2 COCs
Lab Contact: | Carrier: | Sampler:

For Lab Use Only:
Walk-in Client:
Lab Sampling:
Job / SDG No.:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	537 / PFAS	Sample Specific Notes
13	KIN-03	12/18/18	1510	G	WA	1	N		X	
	KIN-04	12/18/18	1510	G	WA	1	N		X	
15	KIN-05	12/18/18	1550	G	WA	1	N		X	
	KIN-06	12/18/18	1610	G	WA	1	N		X	
17	KIN-07	12/18/18	1640	G	WA	1	N		X	
	KIN-08	12/18/18	1645	G	WA	1	N		X	
19	KIN-09 (AMP)	12/18/18	1700	G	WA	1	N		X	
	KIN-10	12/18/18	1730	G	WA	1	N		X	
21	KIN-11	12-19-18	10:15	G	WA	1	N		X	

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

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☒ Disposal by Lab ☐ Archive for ___ Months

Special Instructions/QC Requirements & Comments:
email results to: annemarie.palmieri@alaska.gov

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: 5.0 Corr'd: ___ Therm ID No.: ___

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	DEC	12/20/18 0900			
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by: [signature]	Company: EUC	Date/Time: 12-21-18 1120