

Laboratory Report of Analysis

To: AK DOT-PF Anch Intl Airport
4100 Aircraft Drive
Anchorage, AK 99502
(907)266-2832

Report Number: **1194022**

Client Project: **DOT- Ted Stevens**

Dear Kenton Curtis,

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

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

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

Sincerely,
SGS North America Inc.


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

Jillian Janssen

2019.09.06

15:37:04 -08'00'

Jillian Janssen
Project Manager
Jillian.Janssen@sgs.com

Date

Case Narrative

SGS Client: **AK DOT-PF Anch Intl Airport**

SGS Project: **1194022**

Project Name/Site: **DOT- Ted Stevens**

Project Contact: **Kenton Curtis**

Refer to sample receipt form for information on sample condition.

EPA 537 PFOA PFOS were analyzed by SGS of Wilmington, NC.

REVISED REPORT

Rev 1 - This report revised to included full PFAS list of compounds per original client request.

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

Print Date: 09/06/2019 11:14:28AM

Sample Summary

<u>Client Sample ID</u>	<u>Lab Sample ID</u>	<u>Collected</u>	<u>Received</u>	<u>Matrix</u>
██████████ TAP	1194022001	07/23/2019	07/23/2019	Drinking Water

<u>Method</u>	<u>Method Description</u>
---------------	---------------------------

Print Date: 09/06/2019 11:14:30AM



SGS NORTH AMERICA INC. CHAIN OF

Revised Report - 1

1194022



SGS Environmental Services
200 West Potter Road
Anchorage, AK 99518
(907) 562-2343
www.sgs.com/alaska

SECTION 1				INSTRUCTIONS: SECTIONS 1-5 MUST BE FILLED OUT. OMISSIONS MAY DELAY THE ONSET OF ANALYSIS.				Page ____ of ____			
CLIENT: Department of Transportation-Ted Stevens Anchorage International Airport				CONTACT: Kenton Curtis				PHONE #: 907-266-2832			
PROJECT NAME:				PROJECT/ PWSID/ PERMIT #:				SECTION 3			
REPORTS TO: Kenton Curtis				E-MAIL: Kenton.Curtis@Alaska.gov				PRESERVATIVE			
INVOICE TO: Kenton Curtis Kenton.Curtis@Alaska.gov				QUOTE #:				PFC (Perfluorinated Compounds) - Full List			
RESERVED FOR LAB USE TAP				SAMPLE IDENTIFICATION				DATE MM/DD/YY			
				TIME HH:MM				MATRIX/ MATRIX CODE			
				DATE				TIME			
				RECEIVED BY:				SECTION 4			
				RECEIVED BY:				DOD Project?			
				RECEIVED BY:				COC ID:			
				RECEIVED BY:				Cooler ID:			
				RECEIVED BY:				REQUESTED TURNAROUND TIME AND/OR SPECIAL INSTRUCTIONS			
				RECEIVED BY:				TEMP BLANK °C:			
				RECEIVED BY:				OR AMBIENT			
				RECEIVED BY:				CHAIN OF CUSTODY SEAL: (CIRCLE)			
				RECEIVED BY:				INTACT BROKEN ABSENT			
				RECEIVED BY:				(See attached Sample Receipt Form)			
				RECEIVED BY:				(See attached Sample Receipt Form)			

<http://www.sgs.com/terms-and-conditions>F101_eCOC_Revised_2015-8-28
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e-Sample Receipt Form

SGS Workorder #:

1194022



1 1 9 4 0 2 2

Review Criteria		Condition (Yes, No, N/A)	Exceptions Noted below				
Chain of Custody / Temperature Requirements			Yes	Exemption permitted if sampler hand carries/delivers.			
Were Custody Seals intact? Note # & location		N/A	HD				
COC accompanied samples?		Yes					
DOD: Were samples received in COC corresponding coolers?		N/A					
Yes**Exemption permitted if chilled & collected <8 hours ago, or for samples where chilling is not required							
Temperature blank compliant* (i.e., 0-6 °C after CF)?		N/A	Cooler ID: 1	@	Ambient	°C Therm. ID:	
If samples received without a temperature blank, the "cooler temperature" will be documented instead & "COOLER TEMP" will be noted to the right. "ambient" or "chilled" will be noted if neither is available.			Cooler ID:	@		°C Therm. ID:	
			Cooler ID:	@		°C Therm. ID:	
			Cooler ID:	@		°C Therm. ID:	
			Cooler ID:	@		°C Therm. ID:	
			Cooler ID:	@		°C Therm. ID:	
*If >6°C, were samples collected <8 hours ago?		Yes					
If <0°C, were sample containers ice free?		N/A					
Note: Identify containers received at non-compliant temperature . Use form FS-0029 if more space is needed.							
Holding Time / Documentation / Sample Condition Requirements			Note: Refer to form F-083 "Sample Guide" for specific holding times.				
Were samples received within holding time?		Yes					
Do samples match COC** (i.e., sample IDs, dates/times collected)?		Yes					
**Note: If times differ <1hr, record details & login per COC.							
***Note: If sample information on containers differs from COC, SGS will default to COC information							
Were analytical requests clear? (i.e., method is specified for analyses with multiple option for analysis (Ex: BTEX, Metals)		Yes					
Were proper containers (type/mass/volume/preservative***) used?		Yes	N/A	***Exemption permitted for metals (e.g. 200.8/6020A).			
Volatile / LL-Hg Requirements							
Were Trip Blanks (i.e., VOAs, LL-Hg) in cooler with samples?		N/A					
Were all water VOA vials free of headspace (i.e., bubbles ≤ 6mm)?		N/A					
Were all soil VOAs field extracted with MeOH+BFB?		N/A					
Note to Client: Any "No", answer above indicates non-compliance with standard procedures and may impact data quality.							
Additional notes (if applicable):							

Sample Containers and Preservatives

<u>Container Id</u>	<u>Preservative</u>	<u>Container Condition</u>	<u>Container Id</u>	<u>Preservative</u>	<u>Container Condition</u>
1194022001-A	Trizma	OK			
1194022001-B	Trizma	OK			

Container Condition Glossary

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

OK - The container was received at an acceptable pH for the analysis requested.

BU - The container was received with headspace greater than 6mm.

DM - The container was received damaged.

FR - The container was received frozen and not usable for Bacteria or BOD analyses.

IC - The container provided for microbiology analysis was not a laboratory-supplied, pre-sterilized container and therefore was not suitable for analysis.

NC- The container provided was not preserved or was under-preserved. The method does not allow for additional preservative added after collection.

PA - The container was received outside of the acceptable pH for the analysis requested. Preservative was added upon receipt and the container is now at the correct pH. See the Sample Receipt Form for details on the amount and lot # of the preservative added.

PH - The container was received outside of the acceptable pH for the analysis requested. Preservative was added upon receipt, but was insufficient to bring the container to the correct pH for the analysis requested. See the Sample Receipt Form for details on the amount and lot # of the preservative added.



Orlando, FL

09/06/19

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

e-Hardcopy 2.0
Automated Report

Technical Report for

SGS North America, Inc

1194022

SGS Job Number: FA67037

Sampling Date: 07/23/19

Report to:

andrea.colby@sgs.com

Total number of pages in report: 16



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

Caitlin Brice, M.S.
General Manager

Client Service contact: Andrea Colby 407-425-6700

Certifications: FL(E83510), LA(03051), KS(E-10327), IL(200063), NC(573), NJ(FL002), NY(12022), SC(96038001)
DoD ELAP(ANAB L2229), AZ(AZ0806), CA(2937), TX(T104704404), PA(68-03573), VA(460177),
AK, AR, IA, KY, MA, MS, ND, NH, NV, OK, OR, UT, WA, WV

This report shall not be reproduced, except in its entirety, without the written approval of SGS.
Test results relate only to samples analyzed.

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SGS North America Inc.

Sample Summary

SGS North America, Inc
1194022

Job No: FA67037

Sample Number	Collected		Matrix		Client Sample ID
	Date	Time By	Received	Code Type	

This report contains results reported as ND = Not detected. The following applies:
Organics ND = Not detected above the RL

FA67037-1	07/23/19	11:18	07/26/19	DW	Drinking Water		TAP/31901314001
-----------	----------	-------	----------	----	----------------	--	-----------------

SAMPLE DELIVERY GROUP CASE NARRATIVE**Client:** SGS North America, Inc**Job No:** FA67037**Site:** 1194022**Report Date** 8/21/2019 11:02:35

1 Sample was collected on 07/23/2019 and were received at SGS North America Inc - Orlando on 07/26/2019 properly preserved and intact. This Sample received an SGS Orlando job number of FA67037. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section. Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

MS Semi-volatiles By Method EPA 537.1 REV 1.0**Matrix:** DW**Batch ID:** OP76397

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

Sample(s) FA67040-1MS, FA67040-1MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

SGS Orlando certifies that this report meets the project requirements for analytical data produced for the samples as received at SGS Orlando and as stated on the COC. SGS Orlando certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the SGS Orlando Quality Manual except as noted above. This report is to be used in its entirety. SGS Orlando is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

Ariel Hartney, Client Services (*Signature on File*)

Summary of Hits

Job Number: FA67037
Account: SGS North America, Inc
Project: 1194022
Collected: 07/23/19



Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA67037-1		TAP/31901314001				
Perfluorohexanoic acid		0.0167	0.0019		ug/l	EPA 537.1 REV 1.0
Perfluoroheptanoic acid		0.00373	0.0019		ug/l	EPA 537.1 REV 1.0
Perfluorooctanoic acid		0.00613	0.0019		ug/l	EPA 537.1 REV 1.0
Perfluorobutanesulfonic acid ^a		0.00406	0.0019		ug/l	EPA 537.1 REV 1.0
Perfluorohexanesulfonic acid		0.00488	0.0019		ug/l	EPA 537.1 REV 1.0

(a) Associated BS recovery outside control limits.



Orlando, FL

Section 4

4

Sample Results

Report of Analysis

SGS North America Inc.

Report of Analysis

Page 1 of 1

Client Sample ID:	██████████ TAP/31901314001	Date Sampled:	07/23/19
Lab Sample ID:	FA67037-1	Date Received:	07/26/19
Matrix:	DW - Drinking Water	Percent Solids:	n/a
Method:	EPA 537.1 REV 1.0 EPA 537		
Project:	1194022		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q62496.D	1	08/16/19 05:45	MV	08/05/19 15:40	OP76397	SQ1414
Run #2							

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

Perfluorinated Alkyl Acids

CAS No.	Compound	Result	MCL	RL	Units	Q
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PERFLUOROALKYLCARBOXYLIC ACIDS

307-24-4	Perfluorohexanoic acid	0.0167		0.0019	ug/l	
375-85-9	Perfluoroheptanoic acid	0.00373		0.0019	ug/l	
335-67-1	Perfluorooctanoic acid	0.00613		0.0019	ug/l	
375-95-1	Perfluorononanoic acid	ND		0.0019	ug/l	
335-76-2	Perfluorodecanoic acid	ND		0.0019	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND		0.0037	ug/l	
307-55-1	Perfluorododecanoic acid	ND		0.0037	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND		0.0037	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND		0.0037	ug/l	

PERFLUOROALKYLSULFONATES

375-73-5	Perfluorobutanesulfonic acid ^a	0.00406		0.0019	ug/l	
355-46-4	Perfluorohexanesulfonic acid	0.00488		0.0019	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND		0.0019	ug/l	

PERFLUOROOCATANESULFONAMIDOACETIC ACIDS

2355-31-9	MeFOSAA	ND		0.0074	ug/l	
2991-50-6	EtFOSAA	ND		0.0074	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	90%		70-130%
	13C2-PFDA	111%		70-130%
	d5-EtFOSAA	98%		70-130%

(a) Associated BS recovery outside control limits.

ND = Not detected

MCL = Maximum Contamination Level (40 CFR 141)

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound



Orlando, FL

Section 5

Misc. Forms

5

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody



SGS North America Inc. Revised Report
CHAIN OF CUSTODY RECORD



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

FA67037

CLIENT: SGS North America Inc. - Alaska Division				SGS Reference: 31901314 SGS NC				Page 1 of 1		
CONTACT: Julie Shumway PHONE NO: (907) 562-2343				Additional Comments: All soils report out in dry weight unless						
PROJECT NAME: 1194022		PWSID#: NPD#:		CONTAINER	Preservative Used: Thiom	TYPE C = COMP G = GRAB MI = Multi Incremental Soils	EPA 537 PFOA PFOS	MS MSD	SGS lab #	Location ID
REPORTS TO: Julie Shumway		E-MAIL: Julie.Shumway@sgs.com								
INVOICE TO: SGS - Alaska		QUOTE #: 1194022								
RESERVED for lab use		P.O. #:								
SAMPLE IDENTIFICATION		DATE mm/dd/yy	TIME HHMM	MATRIX/MATRIX CODE						
TAP		7/23/2019	11:18:00	DW	2		X		1194022001	
Relinquished By: (1)		Date	Time	Received By:	DOD Project? NO		Data Deliverable Requirements: LEVEL 2			
Relinquished By: (2)		Date	Time	Received By:	Report to DL (J Flags)? NO		Requested Turnaround Time and-or Special Instructions:			
Relinquished By: (3)		Date	Time	Received By:	Cooler ID:		Temp Blank 'C': 0.8 (113)			
Relinquished By: (4)		Date	Time	Received For Laboratory By:	Chain of Custody Seal: (Circle)		or Ambient [] INTACT BROKEN ABSENT			

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

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

F088_COC_REF_LA8_20190411

FA67037: Chain of Custody
Page 1 of 4

SGS North America Inc.

Sample Receipt Checklist (SRC)

Client:	SGS-NA-AK	Work Order No.:	31901314
1.	<input checked="" type="checkbox"/> Shipped <input type="checkbox"/> Hand Delivered	Notes:	UPS Next Day Air: 1z A36 19W 01 6651 4033
2.	<input checked="" type="checkbox"/> COC Present on Receipt <input type="checkbox"/> No COC <input type="checkbox"/> Additional Transmittal Forms		
3.	<input checked="" type="checkbox"/> Custody Tape on Container <input type="checkbox"/> No Custody Tape		
4.	<input checked="" type="checkbox"/> Samples Intact <input type="checkbox"/> Samples Broken / Leaking		
5.	<input checked="" type="checkbox"/> Chilled on Receipt Actual Temp. (s) in °C: 0.8 Thermometer ID#: IR4-Probe <input type="checkbox"/> Ambient on Receipt <input type="checkbox"/> Walk-in on Ice, Coming down to temp. <input checked="" type="checkbox"/> Temperature Blank Present <input type="checkbox"/> WV samples-proxy not allowed		
6.	<input checked="" type="checkbox"/> Sufficient Sample Submitted <input type="checkbox"/> Insufficient Sample Submitted		
7.	<input type="checkbox"/> Chlorine absent <input type="checkbox"/> HNO3 < 2 <input type="checkbox"/> HCL < 2 <input checked="" type="checkbox"/> Additional Preservatives verified (see notes) Trizma		
8.	<input checked="" type="checkbox"/> Received Within Holding Time <input type="checkbox"/> Not Received Within Holding Time		
9.	<input checked="" type="checkbox"/> No Discrepancies Noted <input type="checkbox"/> Discrepancies Noted <input type="checkbox"/> NCDENR notified of Discrepancies*		
10.	<input type="checkbox"/> No Headspace present in VOC vials <input type="checkbox"/> Headspace present in VOC vials >6mm N/A		

Comments:

 Inspected and Logged in by: AMO
 Date: 7/26/2019

*NCDENR must be notified when collection, holding time or preservation requirements are not met.

ML_11.11

 FA67037: Chain of Custody
 Page 3 of 4

31901314

1 OF 1

33 LBS

JULIE SHURWAY
 (907) 582-2243
 SGS ENVIRONMENTAL SERVICES INC
 200 W. POTTER DR
 ANCHORAGE AK 99518-1605

7/20/19
 10:05
 08°C (R.B.)

SHIP TO:
 SAMPLE RECEIVING
 (910) 350-1903 309
 SGS NORTH AMERICA
 5500 BUSINESS DRIVE
 WILMINGTON NC 28405

NC 284 0-01



1

UPS NEXT DAY AIR

TRACKING #: 1Z A86 19W 01 6651 4033



BILLING: P/P

WEB 01 0 23 2:08pm 7P 460 16 0A 07/20/19

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FA67037: Chain of Custody
 Page 4 of 4

MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Page 1 of 1

Job Number: FA67037
Account: SGSAKA SGS North America, Inc
Project: 1194022

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP76397-MB	Q62492.D	1	08/16/19	MV	08/05/19	OP76397	SQ1414

The QC reported here applies to the following samples:

Method: EPA 537.1 REV 1.0

FA67037-1

CAS No.	Compound	Result	RL	Units	Q
307-24-4	Perfluorohexanoic acid	ND	0.0020	ug/l	
375-85-9	Perfluoroheptanoic acid	ND	0.0020	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0020	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0020	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0020	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0040	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0040	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0040	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0040	ug/l	
375-73-5	Perfluorobutanesulfonic acid	ND	0.0020	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0020	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0020	ug/l	
2355-31-9	MeFOSAA	ND	0.0080	ug/l	
2991-50-6	EtFOSAA	ND	0.0080	ug/l	

CAS No.	Surrogate Recoveries	Limits
	13C2-PFHxA	92% 70-130%
	13C2-PFDA	96% 70-130%
	d5-EtFOSAA	96% 70-130%

Blank Spike Summary

Page 1 of 1

Job Number: FA67037**Account:** SGSAKA SGS North America, Inc**Project:** 1194022

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP76397-BS	Q62491.D	1	08/16/19	MV	08/05/19	OP76397	SQ1414

The QC reported here applies to the following samples:**Method:** EPA 537.1 REV 1.0

FA67037-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
307-24-4	Perfluorohexanoic acid	0.1	0.0918	92	70-130
375-85-9	Perfluoroheptanoic acid	0.1	0.0963	96	70-130
335-67-1	Perfluorooctanoic acid	0.1	0.0907	91	70-130
375-95-1	Perfluorononanoic acid	0.1	0.0914	91	70-130
335-76-2	Perfluorodecanoic acid	0.1	0.0868	87	70-130
2058-94-8	Perfluoroundecanoic acid	0.1	0.0912	91	70-130
307-55-1	Perfluorododecanoic acid	0.1	0.0849	85	70-130
72629-94-8	Perfluorotridecanoic acid	0.1	0.0934	93	70-130
376-06-7	Perfluorotetradecanoic acid	0.1	0.0784	78	70-130
375-73-5	Perfluorobutanesulfonic acid	0.1	0.0684	68* a	70-130
355-46-4	Perfluorohexanesulfonic acid	0.1	0.0757	76	70-130
1763-23-1	Perfluorooctanesulfonic acid	0.1	0.0854	85	70-130
2355-31-9	MeFOSAA	0.1	0.0864	86	70-130
2991-50-6	EtFOSAA	0.1	0.0814	81	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
	13C2-PFHxA	98%	70-130%
	13C2-PFDA	96%	70-130%
	d5-EtFOSAA	93%	70-130%

(a) Outside control limits.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 1

Job Number: FA67037**Account:** SGSAKA SGS North America, Inc**Project:** 1194022

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP76397-MS	Q62499.D	1	08/16/19	MV	08/05/19	OP76397	SQ1414
OP76397-MSD	Q62500.D	1	08/16/19	MV	08/05/19	OP76397	SQ1414
FA67040-1	Q62498.D	1	08/16/19	MV	08/05/19	OP76397	SQ1414

The QC reported here applies to the following samples:**Method:** EPA 537.1 REV 1.0

FA67037-1

CAS No.	Compound	FA67040-1 ug/l	Spike Q ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
307-24-4	Perfluorohexanoic acid	ND	0.106	0.102	96	0.102	0.101	99	1	70-130/30
375-85-9	Perfluoroheptanoic acid	ND	0.106	0.106	100	0.102	0.102	100	4	70-130/30
335-67-1	Perfluorooctanoic acid	ND	0.106	0.0986	93	0.102	0.0969	95	2	70-130/30
375-95-1	Perfluorononanoic acid	ND	0.106	0.0994	93	0.102	0.0939	92	6	70-130/30
335-76-2	Perfluorodecanoic acid	ND	0.106	0.0965	91	0.102	0.0976	96	1	70-130/30
2058-94-8	Perfluoroundecanoic acid	ND	0.106	0.104	98	0.102	0.102	100	2	70-130/30
307-55-1	Perfluorododecanoic acid	ND	0.106	0.0959	90	0.102	0.0963	94	0	70-130/30
72629-94-8	Perfluorotridecanoic acid	ND	0.106	0.100	94	0.102	0.0993	97	1	70-130/30
376-06-7	Perfluorotetradecanoic acid	ND	0.106	0.0848	80	0.102	0.0837	82	1	70-130/30
375-73-5	Perfluorobutanesulfonic acid	ND	0.106	0.0725	68*	0.102	0.0671	66*	8	70-130/30
355-46-4	Perfluorohexanesulfonic acid	ND	0.106	0.0787	74	0.102	0.0776	76	1	70-130/30
1763-23-1	Perfluorooctanesulfonic acid	ND	0.106	0.0920	86	0.102	0.0961	94	4	70-130/30
2355-31-9	MeFOSAA	ND	0.106	0.0968	91	0.102	0.0982	96	1	70-130/30
2991-50-6	EtFOSAA	ND	0.106	0.0905	85	0.102	0.0937	92	3	70-130/30

CAS No.	Surrogate Recoveries	MS	MSD	FA67040-1	Limits
	13C2-PFHxA	111%	113%	103%	70-130%
	13C2-PFDA	107%	110%	117%	70-130%
	d5-EtFOSAA	105%	116%	94%	70-130%

* = Outside of Control Limits.