# **COMPLETE PFAS SAMPLING RESULTS**

			Public Water System Source by Community													
Contaminant of Concern	ADEC Action Levels	Am	bler	Buckland	Deering	Ki	ana	Kivalina	Kobuk	Kotz	ebue	Noa	ntak	Noorvik	Selawik	Shungnak
(ng/L)		2002 Well	1982 Well	Buckland River	Inmachuk River	Upper Well		Wulik River	Main Well	Devils Lake	Vortac Lake	Well # 5	Well #6	Kobuk River	Selawik River	Kobuk River
РГОА	Combination of the analytes	0.31	0.36	ND	ND	ND	ND	ND	0.32	ND	ND	ND	ND	0.23	0.41	ND
PFOS	should not exceed 70 ng/L	ND	ND	ND	ND	ND	ND	ND	0.29	ND	ND	ND	ND	ND	0.43	ND
PFHpA		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PFNA	No	ND	ND	ND	0.21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PFHxS	Action Levels	0.34	0.39	ND	ND	ND	ND	ND	ND	5.43	ND	ND	ND	ND	ND	ND
PFBS		0.27	0.28	ND	0.38	ND	ND	ND	ND	ND	3.82	ND	ND	ND	ND	ND

## **Detectable Concentration**

**ND = Not Detected** Results are "Not Detected" when the concentration is lower than the Detection Limit.

## **Meansurement Equivalents**

1 ng/L = 1 ppt

One nanogram per liter equals one part per trillion

### **Contaminants Name and Acronym**

Perfluorooctanoic Acid (PFOA) Perfluorooctane Sulfonate (PFOS) Perfluoroheptanoic Acid (PFHpA) Perfluorononanoic Acid (PFNA) Perfluorohexane Sulfonate (PFHxS) Perfluorobutane Sulfonate (PFBS) Presented are the complete PFAS sampling results from each public water system source in the Northwest Arctic Borough (2019). The Department of Environmental Conservation (ADEC) recommends drinking water samples check for 6 different PFAS contaminants. On the left are all six of the PFAS contaminant acronyms that were analyzed. The second table column shows the ADEC Action Levels which mirror the EPA Health Advisory Limit of 70 ng/L for the sum of PFOA and PFOS concentrations (PFOA and PFOS results are outlined red in the table). 11 communities were investigated and 15 different water sources were sampled.

According to ADEC's current health guidelines, all public water system sources in the Northwest Arctic Borough have safe PFAS levels.



Generic Maniilaq Association

Work Order:	1195744
	Noorvik
Client:	Maniilaq Association
<b>Report Date:</b>	October 17, 2019

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

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

The following descriptors or qualifiers may be found in your report:

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

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

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M www.us.sqs.com		Page of		NOTE:	analyses require specific method and/or compound list: BTEX,	Metals, PFAS REMARKS/LOC ID				Data Deliverable Requirements:	ecial Instructions: VA, PFHxS, PFHpA, and PFBS.	Chain of Custody Seal: (Circle)	UITACE BROKEN ABSENT	ry, I commerican perverex.
Profile ! 364493 NM Apterly www.us.sgs.com	<pre>structions: Sections 1 - 5 must be filled out. Omissions may delay the onset of analysis.</pre>	Preservative		Analysis*						Section 4 DOD Project? Yes No Cooler ID:	Requested Turnaround Time and/or Special Instructions: Please report PFOS, PFOA, PFNA, PFHxS, PFHpA, and PFBS.	Tamn Riank °C. V 2.0 D6	or Ambient [ ]	http://www.sgs.com/terms-and-conditions
1195744	Instructions: Omissions r	Section 3			∢ - z	R mental) S	2			BY R.	By:	By:	Received For Laboratory By:	
S CHAI	al /	107-854-0505		E-MAIL: GREFERSON C ZEN Sav Profile #:		DATE TIME MAIRIX mm/dd/yy HH:MM CODE	0)/24/19 2:14 DW			Date Time Received By: april 12! (CLGA	Date Time Received By: $q/25/i c_{fa}$ $3:20_{fa}$	Date Time Received By:	Date Time Received	
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* Z E Z E Z E Z E Z E Z E Z E Z E Z E Z	Client pickup Date: Time: Be sure to ask if client will ship by ground (D07) or air carrier (IATA)	<ul> <li>Deliver to client:</li> <li>Ship by/Air Carrier: AK Air Cargo</li> </ul>		Date to ship by: <u>8/22/2019</u>	Kit request taken by: JAN Date: August 19, 2019	Date:	Kit (including lid tightness for pres'd bottles) checked by: R.V. Date: Kit has been been been been been been been bee		tive Hold # QC		2 0 0					Attention Client/Sampler:	1. Do <u>not</u> rinse container; be aware of any acid preservative in container.	<ol><li>Fill container, but do not overfill (except volatile waters).</li><li>3. Label the container with your sample ID as well as the date/time of collection.</li></ol>	<ol> <li>Fill out the Chain of Custody.</li> <li>Add frozen gel packs or ice to your cooler &amp; pack to prevent breakage.</li> <li>Charges may be invoiced for bottles which are unused or improperly used.</li> <li>If you have any questions concerning this sample kit, please contact your Project Manager for assistance. Thank you.</li> </ol>	*This will email a copy of this form for confirmation to the client email and save the form to the network. This should not be used outside of SGS.
195744	Sample Kit Re	lf not, please send a request for new profile build. ender Environmental	Phone #:	B	Profile #:			*Required Items			2 x 250 mL Tetton Free HUPE Inzma					□ Total # includes bottles for % Solids □ Track all I or#? (Benuired for DOD)		Other Notes/Reminders for Kit Prep:		Labels Custody Seals SGS COCs - <i>Circle req'd forma</i> Blank COC  DW COC  COC initiated by PM (attached) Send additional instructions/documents ( <i>Note to PM: Be sure to attach copy of requested form.</i> )
<b>~~</b>	SGS Nort 200 W. Potter E. Anchorage, AK 995-14 (pn) 190, Faurains, An 907-562-2343, (fax) 907-561-99709 (pn) 907-474 5301	Does a Profile exist in LIMS? If not, please send a red tt Name: Zender Environmental	Sean Peterson	speterson@zenc	NOOIVIK	Kotzebue, Alaska (OTZ)	c/o Zender Environmental	SKIT_Zender Environmental_Noorvik_2019-08-19 *F			EPA 537 - PFAS					TA)	one: 120-ml OR 500-ml)	K - Lot#: ank - Lot#:	k - Lot#: · Trip Blank- Lot#:	Labels Custody Seals SGS COCs - <i>Circle req'd forma</i> Blank COC  SGS COCs - <i>Circle req'd forma</i> Blank COC  Send additional instructions/documents ( <i>Note to PM: B</i> )
	U U U	Does a Pro Client Name:	Ordered By:	Email:	Project Name:		Delivery Address:	Filename: SKIT		Samples Matrix	1 DW					<ul> <li>Pack for Shipping via ground (DOT)</li> <li>Pack for Shinning via air carrier (IA)</li> </ul>		<ul> <li>Soil VOA Trip Blank - Lot#:</li> <li>Water VOA Trip Blank - Lot#:</li> </ul>		3

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Ancho USA	orage, AK 99518								ARGO	
J3A		Tel: 907-	562-23/3						8900 SEATTLE, WA 98168 752 ALASKACARGO.COM	
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Alert Expeditors Inc.	#396448
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e-Sample Receipt Form
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000	e-Sam	ple Receip <sup>.</sup>	t Form				
<b>SGS</b>	SGS Workorder #:	1	1957	744		9 5 7 4	4
Rev	view Criteria	Condition (Yes,	No, N/A	Exc	eptions No	ted below	
Chain of	f Custody / Temperature Requi	irements		N/A Exemption pe	rmitted if sam	pler hand carries/deliv	ers.
	Were Custody Seals intact? Note # &	location Yes	1L 1R				
	COC accompanied sa	amples? Yes					
DOD: Were s	amples received in COC corresponding of	coolers? N/A					
	N/A **Exemption permitted if	chilled & colle	cted <8 ho	ours ago, or for sam	ples where ch		
Temperate	ure blank compliant* (i.e., 0-6 °C afte	er CF)? Yes	Cooler ID	<mark>):</mark> 1	@	2.4 °C Therm. ID:	D61
			Cooler ID	<mark>):</mark>	@	°C Therm. ID:	
	temperature blank, the "cooler temperature" will EMP" will be noted to the right. "ambient" or "ch		Cooler ID	<mark>):</mark>	@	°C Therm. ID:	
	oted if neither is available.		Cooler ID	<mark>):</mark>	@	°C Therm. ID:	
			Cooler ID	<mark>):</mark>	@	°C Therm. ID:	
*lf >6	°C, were samples collected <8 hours	s ago? N/A					
	If <0°C, were sample containers ice	e free? N/A					
	ers received at non-compliant tempe Jse form FS-0029 if more space is n						
Holding Time / D	ocumentation / Sample Condition Re	equirements	Note: Refer	r to form F-083 "Samp	le Guide" for spe	ecific holding times.	
v	Vere samples received within holding	g time? Yes					
Do samples match CO	C** (i.e.,sample IDs,dates/times colle	ected)? Yes					
**Note: If times diff	fer <1hr, record details & login per C	OC.					
***Note: If sample information on co	ontainers differs from COC, SGS will default to 0	COC information					
	lear? (i.e., method is specified for ar Itiple option for analysis (Ex: BTEX, I						
				N/A ***Exemption	permitted for I	metals (e.g,200.8/6020	0A).
Were proper container	s (type/mass/volume/preservative***	*)used? Yes					
	Volatile / LL-Hg Reg	uirements	1				
Were Trip Blanks	(i.e., VOAs, LL-Hg) in cooler with sa						
Were all water VOA vial	s free of headspace (i.e., bubbles ≤ soil VOAs field extracted with MeOH	6mm)? N/A					
Note to Clie	nt: Any "No", answer above indicates no				a may impact o	uala quality.	
	Additiona	<mark>al notes (if a</mark>	ippiicable	e):			



### Sample Containers and Preservatives

Container Id	<u>Preservative</u>	Container Condition	<u>Container Id</u>	<u>Preservative</u>	<u>Container</u> Condition
1195744001-A 1195744001-B	Trizma Trizma	ок ок			

#### Container Condition Glossary

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

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

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

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

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

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

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

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

QN - Insufficient sample quantity provided.

## **FINAL LAB REPORT**

1195744 31901683

16-Oct-2019

**Prepared for** 

## SGS North America Inc.

Julie Shumway

200 W. Potter Dr. Anchorage, AK 99518 Phone: 907-562-2343 Email: julie.shumway@sgs.com

This report is approved by

**Prepared by** 

Tamara Burkamper

tamara.morgan@sgs.com

Senior Project Manager

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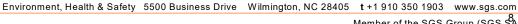
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SGS NORTH AMERICA



#### Laboratory Qualifiers

#### **Report Definitions**

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

#### **Qualifier Definitions**

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

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

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

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



		Sample Summary		
Client Sample ID	Lab Sample ID	Collected	<u>Received</u>	<u>Matrix</u>
EPA 537 - PFAS	31901683001	09/24/2019 12:14	10/01/2019 10:00	Drinking Water



#### Results of EPA 537 - PFAS

Client Sample ID: **EPA 537 - PFAS** Client Project ID: **1195744** Lab Sample ID: 31901683001-A Lab Project ID: 31901683

#### Collection Date: 09/24/2019 12:14 Received Date: 10/01/2019 10:00 Matrix: Drinking Water Solids (%):

## Results by EPA 537 v1.1

Parameter	Result	Qual	DL	LOQ/CL	<u>Units</u>	DF	Date Analyzed
PFHpA	ND	U	0.227	2.27	ng/L	1	10/15/2019 18:08
PFOA	0.230	J	0.227	2.27	ng/L	1	10/15/2019 18:08
PFNA	ND	U	0.227	2.27	ng/L	1	10/15/2019 18:08
PFBS	ND	U	0.227	2.27	ng/L	1	10/15/2019 18:08
PFHxS	ND	U	0.227	2.27	ng/L	1	10/15/2019 18:08
PFOS	ND	U	0.227	2.27	ng/L	1	10/15/2019 18:08
Surrogates							
13C2-PFHxA	87.3			70.0-130	%	1	10/15/2019 18:08
13C2-PFDA	92.1			70.0-130	%	1	10/15/2019 18:08
d5-NEtFOSAA	77.8			70.0-130	%	1	10/15/2019 18:08

#### **Batch Information**

Analytical Batch: XLC1404 Analytical Method: EPA 537 v1.1 Instrument: TQS2 Analyst: FNS Prep Batch: HXX2427 Prep Method: EPA 537 v1.1 Prep Prep Date/Time: 10/04/2019 14:26 Prep Initial Wt./Vol.: 220 mL Prep Extract Vol: 1 mL SGS North America Inc. CHAIN OF CUSTODY RECORD 1195744

#### Locations Nationwide

Alaska

Texas

## Florida

New Jersey Colorado

North Carolina

Louisiana

Virginia Louisi

CLIENT:	SGS North America Inc Alaska Division					SGS Reference: 31901083 SGS NC Page 1 of 1									
CONTACT:	Julie Shumway	PHONE NO:	(907) 56	2-2343	Addi	tional	Comn	nents	s: All	soils	repo	rt out	t in dry weigh		
PROJECT	4405744	PWSID#:			#	Preserv- ative									
NAME:	1195744	NPDL#:			с	Used:	Tittma								
REPORTS TO: Julie Shumway		E-MAIL: Julie.Shumway@sgs.con			O N	TYPE									
		Env.Alaska.RefLabTeam@sgs.com			Т	C = COMP									
INVOICE TO:		QUOTE #:			A	G = GRAB									
	SGS - Alaska	P.O. #:	1195	744	N	MI = Multi	PFC								
RESERVED for lab use	SAMPLE IDENTIFICATION	DATE mm/dd/yy	ТІМЕ ННММ	MATRIX/ MATRIX CODE	E R S	Incre- mental Soils	EPA 537				MS	MSD	SGS lab #	Location ID	
	EPA 537 - PFAS	09/24/2019	12:14:00	DW	2	GRA	X						1195744001		
Relinquished By: (1)		Date	Time	Received		By:			DOD Project?				NO	Data Deliverable Requirements:	
									Report to DL (J Flags)? YE				YES		
									If J- Re	port as	DL/LOD	LOQ.	120	Level 1	
Relinquished By: (2)		Date	Time	Received		By:			Cooler ID: Requested Turnaround Time and-or Special Instructions:						
Delinguished	B. <i>n.</i> (2)	Date	Time	Received	By					lease	repo	on Pr	DS, PFDA, P	FNA, PFHxS, PFHpA, and	
Relinquished By: (3)		Dale							Temp Blank °C:					Chain of Custody Seal: (Circle)	
Relinquished By: (4)		Date	Time	Received					or Ambient [ ]				t[]	INTACT BROKEN ABSENT	
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	tter Drive Anchorage, AK 995 ness Drive Wilmington, NC 2					,			nttp://	www.	<u>595.60</u>	milleri	na anu conult	ions.nun	

## SGS North America Inc.

Sample Receipt Checklist (SRC)

Client:	SGS-NA-AK	Work	Order No.:	31901683
1.		Notes:	UPS Next Day A 1z A86 19W 01	Air: 6843 9308
2.	_x COC Present on Receipt No COC Additional Transmittal Forms			
3.	x Custody Tape on Container No Custody Tape			
4.	x Samples Intact Samples Broken / Leaking			
5.	x       Chilled on Receipt       Actual Temp.(s) in °C:         Ambient on Receipt       Walk-in on Ice; Coming down to temp.         x       Temperature Blank Present         WV samples-proxy not allowed	1.1	Therr	mometer ID#: IR4-Probe
6.	x Sufficient Sample Submitted			
7.	Chlorine absent HNO3 < 2 HCL < 2 X Additional Preservatives verified (see notes)	Trizma		
8.	<u>x</u> Received Within Holding Time Not Received Within Holding Time			
9.	No Discrepancies Noted <u>x</u> Discrepancies Noted NCDENR notified of Discrepancies*	*		
10.	No Headspace present in VOC vials Headspace present in VOC vials >6mm	N/A		
Comments:				
* = Sample	e ID label placed on ziplock bag, not actual sample	bottles.		
	Insj	bected and	Logged in by: <u>AN</u> Date:	

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