# COMPLETE PFAS SAMPLING RESULTS

	ADEC Action Levels					Pub	lic Wa	ater Syst	em Sou	irce b	y Com	mun	ity			
Contaminant of Concern (ng/L)				Buckland	d Deering Kiana		ana	Kivalina	Kobuk	Kotz	ebue	Noatak		Noorvik	Selawik	Shungnak
		2002 Well	1982 Well	Buckland River	Inmachuk River	Upper Well		Wulik River	Main Well	Devils Lake		Well #5	Well #6	Kobuk River	Selawik River	Kobuk River
PFOA	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)

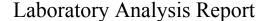
Perfluorononanoic Acid (PFNA)

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 Maniilag Association

Work Order: 1195213

Native Village of Selawik

Client: Maniilaq Association

Report Date: September 30, 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">http://www.sgs.com/en/Terms-and-Conditions.aspx</a>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS maintains a formal Quality Assurance/Quality Control (QA/QC) program. A copy of our Quality Assurance Plan (QAP), which outlines this program, is available at your request. The laboratory certification numbers are AK00971 (DW Chemistry & Microbiology) & 17-021 (CS) for ADEC and 2944.01 for DOD ELAP/ISO 17025 (RCRA methods: 1020B, 1311, 3010A, 3050B, 3520C, 3550C, 5030B, 5035A, 6020A, 7470A, 7471B, 8015C, 8021B, 8082A, 8260C, 8270D, 8270D-SIM, 9040C, 9045D, 9056A, 9060A, AK101 and AK102/103). 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.

B Indicates the analyte is found in a blank associated with the sample.

CCV/CVA/CVB Continuing Calibration Verification

CCCV/CVC/CVCA/CVCB Closing Continuing Calibration Verification

CL Control Limit

DF Analytical Dilution Factor

DL Detection Limit (i.e., maximum method detection limit)

E The analyte result is above the calibrated range.

GT Greater Than

ICV Initial Calibration Verification

J The quantitation is an estimation.

LCS(D) Laboratory Control Spike (Duplicate)

LLQC/LLIQC Low Level Quantitation Check

LOD Limit of Detection (i.e., 1/2 of the LOQ)

LOQ Limit of Quantitation (i.e., reporting or practical quantitation limit)

LT Less Than
MB Method Blank

MS(D) Matrix Spike (Duplicate)

ND Indicates the analyte is not detected.
RPD Relative Percent Difference

U Indicates the analyte was analyzed for but not detected.

Note: Sample summaries which include a result for "Total Solids" have already been adjusted for moisture content.

All DRO/RRO analyses are integrated per SOP.

#### Warner, Nicole (Anchorage)

From: Sean Peterson <speterson@zendergroup.org>
Sent: Wednesday, September 18, 2019 5:41 PM

**To:** Warner, Nicole (Anchorage) **Subject:** [EXTERNAL] Re: Maniilaq

**Follow Up Flag:** Follow up **Flag Status:** Flagged

\*\*\* WARNING: this message is from an EXTERNAL SENDER. Please be cautious, particularly with links and attachments.

\*\*\*

Yes they are paying for all of the samples

Sent from my iPhone

On Sep 18, 2019, at 5:35 PM, Warner, Nicole (Anchorage) < NICOLE.WARNER@sgs.com> wrote:

Good afternoon!

I wanted to verify something with you—it looks like for one of the workorders for PFCs that came back, Maniilaq Association was put as the company to invoice. Should this be the case for all the PFC's in this project event?

Thank you!

-Nicole

#### **Nicole Warner**

SGS North America, Inc

Project Manager 200 W Potter Dr Anchorage, AK 99518 Phone: 907-562-2343 Mobile: 550-3217

E-mail: Nicole.warner@sgs.com

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<1195121\_COC.pdf>

# SGS North America Inc. CHAIN OF CUSTODY RECORD



www.us.sds.com		Page of		NOTE:	analyses require specific method and/or	Metals, PFAS  REMARKS/LOC ID							Data Deliverable Requirements:		uctions:	s, PFHpA, and PFBS.	Chain of Custody Seal: (Circle)	CT BROKEN ABSENT	] Commerical Delivery [\]
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e-Sample Receipt Form

SGS Workorder #:

1195213



D 1 0 11 1	L				41	7 )		
Review Criteria	Condition (Yes,					oted bel		
Chain of Custody / Temperature Require	<u>ements</u>		N/A	Exemption perm	itted if sa	mpler hand	carries/deliv	ers.
Were Custody Seals intact? Note # & lo	ocation Yes	2S						
COC accompanied sar								
DOD: Were samples received in COC corresponding co								
		-11-0:				-1-111	-1	
N/A **Exemption permitted if c			_					,
Temperature blank compliant* (i.e., 0-6 °C after	r CF)? Yes	Cooler II	D:	1	@	<b>1.0</b> °C	Therm. ID:	D21
		Cooler II	D:		@	°C	Therm. ID:	
If samples received without a temperature blank, the "cooler temperature" will be		Cooler II	):		@	°C	Therm. ID:	
documented instead & "COOLER TEMP" will be noted to the right. "ambient" or "chill be noted if neither is available.	led" will	Cooler II	):		@	°C	Therm. ID:	
De Hoted il Heither is available.		Cooler II			@		Therm. ID:	
*If COC ware compiles callected to be use	2000	Coolei II	<i>)</i> .		w		THEIII. ID.	
*If >6°C, were samples collected <8 hours a	ago? N/A							
If <0°C, were sample containers ice	free? N/A							
		Ī						
Note: Identify containers received at non-compliant tempera	ature .							
Use form FS-0029 if more space is ne								
Holding Time / Documentation / Sample Condition Red	auiromonto	Note: Defe	. to fo		Ouidall for a	na sifia baldin	a timo o o	
Were samples received within holding		Note: Refe	1 10 10	om F-083 Sample C	Juide Ioi s	specific notain	ig times.	
were samples received within holding	unie : 165							
Do samples match COC** (i.e.,sample IDs,dates/times collections)	cted)? Yes							
**Note: If times differ <1hr, record details & login per CC	DC.							
***Note: If sample information on containers differs from COC, SGS will default to CO	OC information							
Were analytical requests clear? (i.e., method is specified for ana	alyses Yes							
with multiple option for analysis (Ex: BTEX, M	letals)							
			N/A	***Exemption pe	rmitted fo	r metals (e	a.200.8/602	0A).
Were proper containers (type/mass/volume/preservative***)	used? Ves						J,20010/002	<u></u>
11 510 propor containers (type/mass/volume/preservative )	100	1						
Volatile / LL-Hg Requ	iiramente							
Were Trip Blanks (i.e., VOAs, LL-Hg) in cooler with sam								
Were all water VOA vials free of headspace (i.e., bubbles ≤ 6								
Were all soil VOAs field extracted with MeOH+	RER SI N/Y							
Note to Client: Any "No", answer above indicates non-	-compliance	with stand	ard p	procedures and m	nay impac	t data quali	ty.	
Additional	notes (if a	nnlicabl	٥).					
Additional	HOLOS (II O	Philoani	<i>∪</i> ).					



#### **Sample Containers and Preservatives**

Container Id	<u>Preservative</u>	<u>Container</u>	Container Id	<u>Preservative</u>	<u>Container</u>
		<u>Condition</u>			<u>Condition</u>
1195213001-A	Trizma	OK			
1195213001-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. QN Insufficient sample quantity provided.





# FINAL LAB REPORT 1195213

31901571

30-Sep-2019

Prepared by

# **SGS NORTH AMERICA**

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

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Tamara Burkamper

tamara.morgan@sgs.com

Senior Project Manager

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Results reported relate only to the items tested.



#### **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
 Received
 Matrix

 Raw Water
 31901571001
 09/04/2019 13:20
 09/10/2019 10:15
 Drinking Water



Case Narrative
Raw Water Surrogate recovery for d5-NEtFOSAA is low due to probable matrix interference demonstrated by duplicate extraction and analysis of Matrix Spike.



#### Results of Raw Water

Client Sample ID: Raw Water Client Project ID: 1195213 Lab Sample ID: 31901571001-A Lab Project ID: 31901571 Collection Date: 09/04/2019 13:20 Received Date: 09/10/2019 10:15

Matrix: Drinking Water

Solids (%):

#### Results by EPA 537 v1.1

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>DL</u>	LOQ/CL	<u>Units</u>	<u>DF</u>	Date Analyzed
PFHpA	ND	U	0.208	2.08	ng/L	1	09/26/2019 17:58
PFOA	0.410	J	0.208	2.08	ng/L	1	09/26/2019 17:58
PFNA	ND	U	0.208	2.08	ng/L	1	09/26/2019 17:58
PFBS	ND	U	0.208	2.08	ng/L	1	09/26/2019 17:58
PFHxS	ND	U	0.208	2.08	ng/L	1	09/26/2019 17:58
PFOS	0.434	J	0.208	2.08	ng/L	1	09/26/2019 17:58
Surrogates							
13C2-PFHxA	88.4			70.0-130	%	1	09/26/2019 17:58
13C2-PFDA	72.4			70.0-130	%	1	09/26/2019 17:58
d5-NEtFOSAA	59.8*			70.0-130	%	1	09/26/2019 17:58

#### **Batch Information**

Analytical Batch: XLC1391
Analytical Method: EPA 537 v1.1

Instrument: TQS2
Analyst: FNS

Prep Batch: HXX2414

Prep Method: EPA 537 v1.1 Prep
Prep Date/Time: 09/17/2019 17:48
Prep Initial Wt./Vol.: 240 mL
Prep Extract Vol: 1 mL

# SGS North America Inc. CHAIN OF CUSTODY RECORD

[ 5500 Business Drive Wilmington, NC 28405 Tel: (910) 350-1903 Fax: (910) 350-1557



#### Locations Nationwide

Alaska

Florida

New Jersey

Colorado

Texas Virginia North Carolina Louisiana

www.us.sgs.com

CLIENT:	SGS North Am	erica Inc Ala	ska Division		SG	S Refere	nce: 31	901	571		SGS	NC		Page 1 of 1
CONTACT:	Julie Shumway	PHONE NO:	(907) 5	62-2343	Addi	itional (	Comme	nts:	All so	ls repo	ort ou	t in dry weig	ht unless	Page 1 01 1
PROJECT NAME:	1195213	PWSID#:			# C	Preserv- ative Used:	Tikha							
REPORTS TO:	: Julie Shumway	E-MAIL: Julie.Shumway@sgs.com Env.Alaska.RefLabTeam@sgs.com			-	N C=					13			
INVOICE TO:	SGS - Alaska	QUOTE #: P.O. #:	1198	5213	A I N	G = GRAB MI = Multi	PFAS*							
RESERVED for lab use	SAMPLE IDENTIFICATION	DATE mm/dd/yy	TIME HHMM	MATRIX/ MATRIX CODE	E R S	Incre- mental Soils	EPA 537			MS	MSD	SGS lab #	L	ocation ID
	Raw Water	09/04/2019	13:20:00	DW	2	GRA	Х					1195213001		
Relinquished E	By: (1)	Date	Time	Received I	By:			Re	DD Proj	DL (J F	lags)?	NO	Data Deliver	able Requirements:
								lt J	Report	is DL/LOI	D/LOQ.			Level 1
Relinquished E	By: (2)	Date	Time	Received I	ву:				oler ID Reque		urnar	ound Time a	nd-or Spec	ial Instructions:
Relinquished By: (3)  Date  Time  Received		Ву:				Pleasemp Bla	-	·Oº	S,PFOA,PFN		FHpA,and PFBS ustody Seal: (Circle)			
Relinquished By: (4)  Date  Time  Received  1002  [X/200 W. Potter Drive Anchorage, AK 99518 Tel: (907) 562-2343 Fax: (907) 56		Received F	y gru	ooratory 2001	By: 10:1	5		or A	mbien	111 (	INTACT I	BROKEN ABSENT		

F088\_COC\_REF\_LAB\_20190411

# SGS North America Inc.

# Sample Receipt Checklist (SRC)

Client:	SGS-NA-AK	_ Wo	rk Order No.:	31901571	
1.	x Shipped	Notes:	UPS Next Day		
	Hand Delivered		1z A86 19W 0	1 6767 8178	
2.	x COC Present on Receipt				
2.	No COC				
	Additional Transmittal Forms				
	Additional Transmittal Forms				
3.	x Custody Tape on Container				
	No Custody Tape				
4.	x Samples Intact				
4.					
	Samples Broken / Leaking				
5.	x Chilled on Receipt Actual Temp.(s) in °C:	1.0	Ther	mometer ID#: IR4-	-Probe
	Ambient on Receipt				
	Walk-in on Ice; Coming down to temp.				
	x Temperature Blank Present				
	WV samples-proxy not allowed				
6.	x Sufficient Sample Submitted				
	Insufficient Sample Submitted				
7.	Chlorine absent				
7.	HNO3 < 2				
	HCL < 2				
		<del></del>			
	X Additional Preservatives verified (see notes)	Trizma			
8.	x Received Within Holding Time				
	Not Received Within Holding Time				
0	No Discourse in Note I				
9.	x No Discrepancies Noted				
	Discrepancies Noted				
	NCDENR notified of Discrepancies*				
10.	No Headspace present in VOC vials	N/A			
	Headspace present in VOC vials >6mm				
Comments: _					
-		***************************************			
	Inspe	cted and	Logged in by: AM		
			Date:	9/10/2019	