From: Don Popma <dpopma@biotechag.com>

**Sent:** 7/21/2021 5:08:06 PM

To: "Randy Wurst" <randyw@charlevoixmi.gov>
Cc: "Sneller, Cindy (EGLE)" <SNELLERC@michigan.gov>

**Subject:** Charlevoix PFAS Results

Attachments: RPT.COC.S25812.01(01)\_CHARLEVOIX\_WWTP.pdf, QC-S25812-01.pdf

CAUTION: This is an External email. Please send suspicious emails to abuse@michigan.gov

## Randy,

Your PFAS results and the QC report is attached. Your PFOS result is 5.9 ppb. So that's great.

You'll need to upload both documents into MIWATERS and let Cindy Sneller w/ Biosolids EGLE know when that is done.

Thanks

# Don Popma

General Manager 1651 Beulah Hwy. Beulah MI 49617 Phone (616) 887-4211 Cell (616) 835-0100 Fax (616) 887-9511



# ATTACHMENT NAME:

RPT.COC.S25812.01(01)\_CHARLEVOIX\_WWTP.pdf

# **ATTACHMENT TYPE:**

Adobe Portable Document Format (PDF) compound image



Report ID: S25812.01(01) Generated on 07/20/2021

Report to

Attention: Don Popma Biotech Agronomics, Inc. 1651 Beulah Highway Beulah, MI 49617

Phone: 616-835-0100 FAX: Email: dpopma@biotechag.com Report produced by

Merit Laboratories, Inc. 2680 East Lansing Drive East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Contacts for report questions: John Laverty (johnlaverty@meritlabs.com) Barbara Ball (bball@meritlabs.com)

Report Summary

Lab Sample ID(s): S25812.01 Project: Charlevoix WWTP Collected Date(s): 06/29/2021

Submitted Date/Time: 06/30/2021 12:40

Sampled by: Don Popma

P.O. #:

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Maya Murshak Technical Director

Naya Mushah



#### **General Report Notes**

Analytical results relate only to the samples tested, in the condition received by the laboratory.

Methods may be modified for improved performance.

Results reported on a dry weight basis where applicable.

'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).

40 CFR Part 136 Table II Required Containers, Preservation Techniques and Holding Times for the Clean Water Act specify that samples

for acrolein and acrylonitrile need to be preserved at a pH in the range of 4 to 5 or if not preserved, analyzed within 3 days of sampling.

QA/QC corresponding to this analytical report is a separate document with the same Merit ID reference and is available upon request.

Full accreditation certificates are available upon request. Starred (\*) analytes are not NELAP accredited.

Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.

Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc.

Limits for drinking water samples, are listed as the MCL Limits (Maximum Contaminant Level Concentrations)

PFAS requirement: Section 9.3.8 of U.S. EPA Method 537.1 states "If the method analyte(s) found in the Field Sample is present in the

FRB at a concentration greater than 1/3 the MRL, then all samples collected with that FRB are invalid and must be recollected and reanalyzed."

Samples submitted without an accompanying FRB may not be acceptable for compliance purposes.

#### **Report Narrative**

There is no additional narrative for this analytical report



## **Laboratory Certifications**

Authority	Certification ID
Michigan DEQ	#9956
DOD ELAP/ISO 17025	#69699
WBENC	#2005110032
Ohio VAP	#CL0002
Indiana DOH	#C-MI-07
New York NELAC	#11814
North Carolina DENR	#680
North Carolina DOH	#26702
Alaska CSLAP	#17-001
Pennsylvania DEP	#68-05884

#### **Qualifier Descriptions**

Qualifier	Description
!	Result is outside of stated limit criteria
В	Compound also found in associated method blank
E	Concentration exceeds calibration range
F	Analysis run outside of holding time
G	Estimated result due to extraction run outside of holding time
Н	Sample submitted and run outside of holding time
1	Matrix interference with internal standard
J	Estimated value less than reporting limit, but greater than MDL
L	Elevated reporting limit due to low sample amount
M	Result reported to MDL not RDL
0	Analysis performed by outside laboratory. See attached report.
R	Preliminary result
S	Surrogate recovery outside of control limits
Т	No correction for total solids
X	Elevated reporting limit due to matrix interference
Υ	Elevated reporting limit due to high target concentration
b	Value detected less than reporting limit, but greater than MDL
е	Reported value estimated due to interference
j	Analyte also found in associated method blank
p	Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.
Х	Preserved from bulk sample

#### **Glossary of Abbreviations**

Abbreviation	Description
RL/RDL	Reporting Limit
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
SW	EPA SW 846 (Soil and Wastewater) Methods
E	EPA Methods
SM	Standard Methods
LN	Linear
BR	Branched



## **Method Summary**

Method Version

ASTM D7968-17M ASTM Method D7968 - 17 Modified (Isotopic Dilution)

SM2540B Standard Method 2540 B 2011

#### **Parameter Summary**

Parameter	Synonym	Cas #
PFBA	Perfluorobutanoic Acid	375-22-4
PFPeA	Perfluoropentanoic Acid	2706-90-3
4:2 FTSA	4:2 Fluorotelomer Sulfonic Acid	757124-72-4
PFHxA	Perfluorohexanoic Acid	307-24-4
PFBS	Perfluorobutane sulfonic Acid	375-73-5
PFHpA	Perfluoroheptanoic Acid	375-85-9
PFPeS	Perfluoropentane Sulfonic Acid	2706-91-4
6:2 FTSA	6:2 Fluorotelomer Sulfonic Acid	27619-97-2
PFOA	Perfluorooctanoic Acid	335-67-1
PFHxS	Perfluorohexane Sulfonic Acid	355-46-4
PFHxS-LN	Perfluorohexane Sulfonic Acid - LN	355-46-4-LN
PFHxS-BR	Perfluorohexane Sulfonic Acid - BR	355-46-4-BR
PFNA	Perfluorononanoic Acid	375-95-1
8:2 FTSA	8:2 Fluorotelomer Sulfonic Acid	39108-34-4
PFHpS	Perfluoroheptane Sulfonic Acid	375-92-8
PFDA	Perfluorodecanoic Acid	335-76-2
N-MeFOSAA	N-methyl perfluorooctanesulfonamidoacetic acid	2355-31-9
EtFOSAA	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	2991-50-6
PFOS	Perfluorooctane Sulfonic Acid	1763-23-1
PFOS-LN	Perfluorooctane Sulfonic Acid - LN	1763-23-1-LN
PFOS-BR	Perfluorooctane Sulfonic Acid - BR	1763-23-1-BR
PFUnDA	Perfluoroundecanoic Acid	2058-94-8
PFNS	Perfluorononane Sulfonic Acid	68259-12-1
PFDoDA	Perfluorododecanoic Acid	307-55-1
PFDS	Perfluorodecane Sulfonic Acid	335-77-3
PFTrDA	Perfluorotridecanoic Acid	72629-94-8
FOSA	Perfluorooctane Sulfonamide	754-91-6
PFTeDA	Perfluorotetradecanoic Acid	376-06-7
11CI-PF3OUdS	11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	763051-92-9
9CI-PF3ONS	9-chlorohexadecafluoro-3-oxanone1-sulfonic acid	756426-58-1
ADONA	4,8-dioxa-3H-perfluorononanoic acid	919005-14-4
HFPO-DA	Hexafluoropropylene oxide dimer	13252-13-6



Sample Summary (1 samples)

Sample ID Sample Tag Matrix Collected Date/Time

S25812.01 Biosolids Sludge 06/29/21 09:20



Lab Sample ID: S25812.01

Sample Tag: Biosolids

Collected Date/Time: 06/29/2021 09:20

Matrix: Sludge

COC Reference: 145922

#### Sample Containers

#	Туре	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	15ml Centrifuge Tube	None	Yes	5.5	IR
1	250ml Plastic	None	Yes	5.5	IR

#### Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Initial wt. (g) / Final wt. (g) / Volume (ml)*	11.85/6.97/10	ASTM D7968-17M	07/09/21 12:00	JGH	

#### Inorganics

Method: SM2540B, Run Date: 06/30/21 16:30, Analyst: ELR

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	3.7	1		%	1		

Dilution

#### Organics

28 PFAs, Method: ASTM D7968-17M, Run Date: 07/10/21 01:36, Analyst: JGH

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PFBA*	Not detected	1.1		ug/kg	55.4	375-22-4	
PFPeA*	Not detected	0.55		ug/kg	55.4	2706-90-3	
4:2 FTSA*	Not detected	0.55		ug/kg	55.4	757124-72-4	1
PFHxA*	2.1	0.55		ug/kg	55.4	307-24-4	
PFBS*	Not detected	0.55		ug/kg	55.4	375-73-5	
PFHpA*	Not detected	0.55		ug/kg	55.4	375-85-9	
PFPeS*	Not detected	0.55		ug/kg	55.4	2706-91-4	
6:2 FTSA*	Not detected	0.55		ug/kg	55.4	27619-97-2	1
PFOA*	Not detected	0.55		ug/kg	55.4	335-67-1	
PFHxS*	Not detected	0.55		ug/kg	55.4	355-46-4	
PFHxS-LN*	Not detected	0.55		ug/kg	55.4	355-46-4-LN	
PFHxS-BR*	Not detected	0.55		ug/kg	55.4	355-46-4-BR	
PFNA*	Not detected	0.55		ug/kg	55.4	375-95-1	
8:2 FTSA*	0.71	0.55		ug/kg	55.4	39108-34-4	1
PFHpS*	Not detected	0.55		ug/kg	55.4	375-92-8	
PFDA*	2.6	0.55		ug/kg	55.4	335-76-2	1
N-MeFOSAA*	19	0.55		ug/kg	55.4	2355-31-9	1
EtFOSAA*	8.2	0.55		ug/kg	55.4	2991-50-6	1
PFOS*	5.9	0.55		ug/kg	55.4	1763-23-1	1
PFOS-LN*	5	0.55		ug/kg	55.4	1763-23-1-LN	1
PFOS-BR*	0.8	0.55		ug/kg	55.4	1763-23-1-BR	1
PFUnDA*	1.8	0.55		ug/kg	55.4	2058-94-8	1
PFNS*	Not detected	0.55		ug/kg	55.4	68259-12-1	1
PFDoDA*	2.2	0.55		ug/kg	55.4	307-55-1	l1
PFDS*	Not detected	0.55		ug/kg	55.4	335-77-3	1
PFTrDA*	0.6	0.55		ug/kg	55.4	72629-94-8	l1
FOSA*	1.4	0.55		ug/kg	55.4	754-91-6	1
PFTeDA*	0.78	0.55		ug/kg	55.4	376-06-7	l1
11CI-PF3OUdS*	Not detected	0.55		ug/kg	55.4	763051-92-9	

I-Matrix interference with internal standard

1-IS recovery <10%



## Lab Sample ID: S25812.01 (continued)

Sample Tag: Biosolids

28 PFAs, Method: ASTM D7968-17M, Run Date: 07/10/21 01:36, Analyst: JGH (continued)

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Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
9CI-PF3ONS*	Not detected	0.55		ug/kg	55.4	756426-58-1	
ADONA*	Not detected	0.55		ug/kg	55.4	919005-14-4	
HFPO-DA*	Not detected	0.55		ua/ka	55.4	13252-13-6	

# Merit Laboratories Login Checklist

Lab Set ID:S25812

Client:BIOTECHAGRO (Biotech Agronomics, Inc.)

Project: Charlevoix WWTP

Submitted:06/30/2021 12:40 Login User: MMC

Attention: Don Popma

Address: Biotech Agronomics, Inc. 1651 Beulah Highway Beulah, MI 49617

Phone: 616-835-0100 FAX: Email: dpopma@biotechag.com

Selec	ction			Description	Note
Sam	ole Receiv	ving			
01.	X Yes	No	N/A	Samples are received at 4C +/- 2C Thermometer #	IR 5.5
02.	X Yes	No	N/A	Received on ice/ cooling process begun	
03.	Yes	X No	N/A	Samples shipped	
04.	Yes	X No	□ N/A	Samples left in 24 hr. drop box	
05.	Yes	No	X N/A	Are there custody seals/tape or is the drop box locked	
Chai	n of Custo	ody			
06.	X Yes	No	N/A	COC adequately filled out	
07.	<b>X</b> Yes	No	□ N/A	COC signed and relinquished to the lab	
08.	X Yes	No	N/A	Sample tag on bottles match COC	
09.	Yes	X No	N/A	Subcontracting needed? Subcontacted to:	
Pres	ervation				
10.	X Yes	No	N/A	Do sample have correct chemical preservation	
11.	Yes	No	X N/A	Completed pH checks on preserved samples? (no VOAs)	
12.	Yes	X No	N/A	Did any samples need to be preserved in the lab?	
Bottl	e Conditi	ons			
13.	X Yes	No	N/A	All bottles intact	
14.	X Yes	No	□ N/A	Appropriate analytical bottles are used	
15.	<b>X</b> Yes	No	□ N/A	Merit bottles used	
16.	X Yes	No	□ N/A	Sufficient sample volume received	
17.	Yes	X No	□ N/A	Samples require laboratory filtration	
18.	X Yes	No	□ N/A	Samples submitted within holding time	
19.	Yes	No	X N/A	Do water VOC or TOX bottles contain headspace	

Corrective action for all	exceptions is to call the c	lient and to notify the p	project manager.
Client Review By:		Date:	



Merit 2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-4034
www.meritlabs.com

c.o.c.	PAGE	# OF	1	4	5	9	2	2

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# ATTACHMENT NAME:

QC-S25812-01.pdf

# ATTACHMENT TYPE:

Adobe Portable Document Format (PDF) compound image



# **Quality Control Report**

Report ID: QC-S25812-01 Generated on 07/20/2021

Report to

Attention: Don Popma Biotech Agronomics, Inc. 1651 Beulah Highway Beulah, MI 49617

Phone: 616-835-0100 FAX:

Report Produced by

Merit Laboratories 2680 East Lansing Drive East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

#### Report Summary

Lab Sample ID(s): S25812.01 Project: Charlevoix WWTP

Submitted Date/Time: 06/30/2021 12:40

Sampled by: Don Popma

P.O. #:

#### **QC Report Sections**

Cover Page (Page 1)
Analysis Summary (Page 2)
Prep Batch Summary (Page 3)
Internal Standards per Lab Sample (Page 4)
Internal Standards per QC Sample (Pages 5-7)
Batch QC Results (Pages 8-13)

#### Report Flag Descriptions

\*: QC result is outside of indicated control limits

W: Surrogate result not applicable due to sample dilution

I certify that this data package is in compliance with the terms and conditions of the program, and project, and contractual requirements both technically and for completeness. Release of the data contained in this hardcopy data package and its computer-readable data submitted has been authorized by the Quality Assurance Manager and his/her designee, as verified by the following signature.

Barbara Ball

**Quality Assurance Manager** 

Bartara Ball

# **QC Report - Analysis Summary**

Lab Sample ID: S25812.01

Sample Tag: Biosolids

Collected Date/Time: 06/29/2021 09:20

Matrix: Sludge

COC Reference: 145922

Analysis	Method	Run Date/Time	Batch ID	Prep ID	Surr	QC Types
Inorganics						
Total Solids	SM2540B	06/30/21 16:30	TS210630E	TS210630E	No	BLK/LCS/DUP
Organics - Volatiles						
28 PFAs	ASTM D7968-17M	07/10/21 01:36	AK210709	PF210709S1	Yes	BLK/LCS/LCSD/MS/DU

Page 2 of 13

# **QC Report - Prep Batch Summary**

## Inorganics, Prep Batch ID: TS210630E

Surrogates: No, QC Types: BLK/LCS/DUP

Sample ID	Analysis	Method	Run Date/Time Batch ID
S25812.01	Total Solids	SM2540B	06/30/21 16:30 TS210630E

## Organics - Volatiles, Prep Batch ID: PF210709S1

Surrogates: Yes, QC Types: BLK/LCS/LCSD/MS/DUP

Sample ID	Analysis	Method	Run Date/Time	Batch ID
S25812.01	28 PFAs	ASTM D7968-17M	07/10/21 01:36	AK210709

Page 3 of 13

# **QC Report - Internal Standards per Lab Sample**

Lab Sample ID: S25812.01

Sample Tag: Biosolids

Collected Date/Time: 06/29/2021 09:20

Matrix: Sludge

COC Reference: 145922

## Organics - Volatiles, Analysis: 28 PFAs

Run in Batch: AK210709, Run Date: 07/10/2021 01:36, Matrix: SO, Dilution: 55.4

Internal Standard	Flags	%Rec	LCL	UCL
M2-4:2FTSA	*	555.3	50.0	150.0
M2-6:2FTSA	*	954.9	50.0	150.0
M2-8:2FTSA	*	300.9	50.0	150.0
M2PFTeDA	*	7.5	12.0	218.0
M3PFBS		94.0	50.0	150.0
M3PFHxS		86.9	50.0	150.0
M4PFHpA		100.0	50.0	150.0
M5PFHxA		98.5	50.0	150.0
M5PFPeA		96.7	50.0	150.0
M6PFDA	*	34.9	50.0	150.0
M7PFUnDA	*	19.1	50.0	150.0
M8FOSA	*	43.5	50.0	150.0
M8PFOA		92.2	50.0	150.0
M8PFOS	*	42.4	50.0	150.0
M9-PFNA		94.5	50.0	150.0
MPFBA		69.2	50.0	150.0
MPFDoDA	*	9.9	50.0	150.0
d3N-MeFOSAA	*	23.3	50.0	150.0
d5EtFOSAA	*	31.1	50.0	150.0
MHFPO-DA		73.0	50.0	150.0

#### Organics - Volatiles, Prep Batch ID: PF210709S1

QC Types: BLK/LCS/LCSD/MS/DUP

#### Blank (BLK)

Lab Sample ID: AK210709.BLKS2107091

Run in Batch: AK210709, Run Date: 07/09/2021 19:06, Prep Date: 07/09/2021, Matrix: SO, Dilution: 1

Internal Standard	Flags	%Rec	LCL	UCL
M2-4:2FTSA		100.7	50.0	150.0
M2-6:2FTSA		118.6	50.0	150.0
M2-8:2FTSA		84.6	50.0	150.0
M2PFTeDA		174.2	12.0	218.0
M3PFBS		109.3	50.0	150.0
M3PFHxS		94.8	50.0	150.0
M4PFHpA		118.0	50.0	150.0
M5PFHxA		117.9	50.0	150.0
M5PFPeA		113.1	50.0	150.0
M6PFDA		111.3	50.0	150.0
M7PFUnDA		104.6	50.0	150.0
M8FOSA		118.6	50.0	150.0
M8PFOA		109.2	50.0	150.0
M8PFOS		105.2	50.0	150.0
M9-PFNA		128.3	50.0	150.0
MPFBA		114.5	50.0	150.0
MPFDoDA		125.9	50.0	150.0
d3N-MeFOSAA		119.3	50.0	150.0
d5EtFOSAA		111.2	50.0	150.0
MHFPO-DA		104.3	50.0	150.0

## Blank (BLK)

Lab Sample ID: AK210712B.BLKS2107091

Run in Batch: AK210712B, Run Date: 07/12/2021 17:33, Prep Date: 07/09/2021, Matrix: SO, Dilution: 1

Internal Standard	Flags	%Rec	LCL	UCL
M2-4:2FTSA		94.4	50.0	150.0
M2-6:2FTSA		110.7	50.0	150.0
M2-8:2FTSA		98.5	50.0	150.0
M2PFTeDA		137.6	12.0	218.0
M3PFBS		110.1	50.0	150.0
M3PFHxS		95.6	50.0	150.0
M4PFHpA		100.4	50.0	150.0
M5PFHxA		113.9	50.0	150.0
M5PFPeA		106.5	50.0	150.0
M6PFDA		112.5	50.0	150.0
M7PFUnDA		123.4	50.0	150.0
M8FOSA		111.1	50.0	150.0
M8PFOA		112.4	50.0	150.0
M8PFOS		110.1	50.0	150.0
M9-PFNA		114.2	50.0	150.0
MPFBA		107.0	50.0	150.0
MPFDoDA		123.2	50.0	150.0
d3N-MeFOSAA		109.9	50.0	150.0
d5EtFOSAA		117.0	50.0	150.0
MHFPO-DA		111.1	50.0	150.0

#### **Laboratory Control Sample (LCS)**

Lab Sample ID: AK210712B.LCSS2107091

Run in Batch: AK210712B, Run Date: 07/12/2021 16:54, Prep Date: 07/09/2021, Matrix: SO, Dilution: 1

	,			,
Internal Standard	Flags	%Rec	LCL	UCL
M2-4:2FTSA		95.7	50.0	150.0
M2-6:2FTSA		114.6	50.0	150.0
M2-8:2FTSA		109.5	50.0	150.0
M2PFTeDA		127.9	12.0	218.0
M3PFBS		105.7	50.0	150.0
M3PFHxS		100.9	50.0	150.0
M4PFHpA		108.0	50.0	150.0
M5PFHxA		105.7	50.0	150.0
M5PFPeA		100.7	50.0	150.0
M6PFDA		102.7	50.0	150.0
M7PFUnDA		117.1	50.0	150.0
M8FOSA		98.7	50.0	150.0
M8PFOA		117.9	50.0	150.0
M8PFOS		102.5	50.0	150.0
M9-PFNA		107.7	50.0	150.0
MPFBA		104.4	50.0	150.0
MPFDoDA		107.7	50.0	150.0
d3N-MeFOSAA		108.0	50.0	150.0
d5EtFOSAA		111.7	50.0	150.0
MHFPO-DA		112.4	50.0	150.0

#### Laboratory Control Sample Duplicate (LCSD)

Lab Sample ID: AK210712B.LCSDS2107091, Parent Sample ID: AK210712B.LCSS2107091

Run in Batch: AK210712B, Run Date: 07/12/2021 17:14, Prep Date: 07/09/2021, Matrix: SO, Dilution: 1

nternal Standard	Flags	%Rec	LCL	UCL
M2-4:2FTSA		95.2	50.0	150.0
M2-6:2FTSA		112.7	50.0	150.0
M2-8:2FTSA		104.6	50.0	150.0
M2PFTeDA		135.6	12.0	218.0
M3PFBS		109.3	50.0	150.0
M3PFHxS		98.6	50.0	150.0
И4PFHpA		106.5	50.0	150.0
M5PFHxA		105.1	50.0	150.0
M5PFPeA		104.1	50.0	150.0
M6PFDA		115.3	50.0	150.0
M7PFUnDA		116.2	50.0	150.0
M8FOSA		99.3	50.0	150.0
M8PFOA		108.5	50.0	150.0
M8PFOS		112.3	50.0	150.0
И9-PFNA		116.9	50.0	150.0
MPFBA		104.7	50.0	150.0
MPFDoDA		117.6	50.0	150.0
3N-MeFOSAA		117.3	50.0	150.0
15EtFOSAA		109.6	50.0	150.0
MHFPO-DA		122.6	50.0	150.0

#### Matrix Spike (MS)

Lab Sample ID: AK210709.2583209M, Parent Sample ID: S25832.09

Run in Batch: AK210709, Run Date: 07/10/2021 01:16, Prep Date: 07/09/2021, Matrix: SO, Dilution: 5.66

Internal Standard	Flags	%Rec	LCL	UCL
M2-4:2FTSA		142.3	50.0	150.0
M2-6:2FTSA	*	167.1	50.0	150.0
M2-8:2FTSA		140.8	50.0	150.0
M2PFTeDA		206.9	12.0	218.0
M3PFBS		118.8	50.0	150.0
M3PFHxS		113.3	50.0	150.0
M4PFHpA		112.9	50.0	150.0
M5PFHxA		114.5	50.0	150.0
M5PFPeA		106.3	50.0	150.0
M6PFDA		113.8	50.0	150.0
M7PFUnDA		130.5	50.0	150.0
M8FOSA		112.7	50.0	150.0
M8PFOA		118.6	50.0	150.0
M8PFOS		115.2	50.0	150.0
M9-PFNA		133.0	50.0	150.0
MPFBA		110.1	50.0	150.0
MPFDoDA		149.9	50.0	150.0
d3N-MeFOSAA		103.2	50.0	150.0
d5EtFOSAA		110.3	50.0	150.0
MHFPO-DA		90.4	50.0	150.0

#### **Duplicate (DUP)**

Lab Sample ID: AK210712B.2583208D, Parent Sample ID: S25832.08

Run in Batch: AK210712B, Run Date: 07/12/2021 19:50, Prep Date: 07/09/2021, Matrix: SO, Dilution: 5.19

Internal Standard	Flags	%Rec	LCL	UCL	
M2-4:2FTSA		108.0	50.0	150.0	
M2-6:2FTSA		125.2	50.0	150.0	
M2-8:2FTSA		116.8	50.0	150.0	
M2PFTeDA		133.0	12.0	218.0	
M3PFBS		104.2	50.0	150.0	
M3PFHxS		102.3	50.0	150.0	
M4PFHpA		103.6	50.0	150.0	
M5PFHxA		103.8	50.0	150.0	
M5PFPeA		100.4	50.0	150.0	
M6PFDA		116.4	50.0	150.0	
M7PFUnDA		121.7	50.0	150.0	
M8FOSA		101.4	50.0	150.0	
M8PFOA		112.6	50.0	150.0	
M8PFOS		100.7	50.0	150.0	
M9-PFNA		104.6	50.0	150.0	
MPFBA		102.1	50.0	150.0	
MPFDoDA		124.7	50.0	150.0	
d3N-MeFOSAA		106.6	50.0	150.0	
d5EtFOSAA		104.0	50.0	150.0	
MHFPO-DA		103.6	50.0	150.0	

#### Inorganics, Prep Batch ID: TS210630E

Surrogates: No, QC Types: BLK/LCS/DUP

#### Blank (BLK)

Lab Sample ID: TS210630E.LRB1

Run in Batch: TS210630E, Run Date: 06/30/2021 16:30, Prep Date: 06/30/2021, Matrix: Liquid, Dilution: 1

Analyte	Flags Conc	RDL	Units
Total Solids	ND	1	%

#### **Laboratory Control Sample (LCS)**

Lab Sample ID: TS210630E.LCS1

Run in Batch: TS210630E, Run Date: 06/30/2021 16:30, Prep Date: 06/30/2021, Matrix: Liquid, Dilution: 1

Analyte	Flags % Rec	LCL	UCL	
Total Solids	100	90	110	

#### **Duplicate (DUP)**

Lab Sample ID: TS210630E.DP1, Parent Sample ID: S25806.04

Run in Batch: TS210630E, Run Date: 06/30/2021 16:30, Prep Date: 06/30/2021, Matrix: Soil, Dilution: 1

Analyte	Flags RPD	RPD CL		
Total Solids	0	5		

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Report ID: QC-S25812-01 Generated on 07/20/2021

#### Organics - Volatiles, Prep Batch ID: PF210709S1

Surrogates: Yes, QC Types: BLK/LCS/LCSD/MS/DUP

#### Blank (BLK)

Lab Sample ID: AK210709.BLKS2107091

Run in Batch: AK210709, Run Date: 07/09/2021 19:06, Prep Date: 07/09/2021, Matrix: SO, Dilution: 1

Analyte	Flags	Conc	RDL	Units
PFBA		ND	20	ng/kg
PFPeA		ND	10	ng/kg
4:2 FTSA		ND	10	ng/kg
PFHxA		ND	10	ng/kg
PFBS		ND	10	ng/kg
HFPO-DA		ND	10	ng/kg
PFHpA		ND	10	ng/kg
PFPeS		ND	10	ng/kg
ADONA		ND	10	ng/kg
6:2 FTSA		ND	10	ng/kg
PFOA		ND	10	ng/kg
PFHxS-BR		ND	10	ng/kg
PFHxS		ND	10	ng/kg
PFHxS-LN		ND	10	ng/kg
PFNA		ND	10	ng/kg
8:2 FTSA		ND	10	ng/kg
PFHpS		ND	10	ng/kg
N-MeFOSAA		ND	10	ng/kg
PFDA		ND	10	ng/kg
PFOS-BR		ND	10	ng/kg
EtFOSAA		ND	10	ng/kg
PFOS		ND	10	ng/kg
PFOS-LN		ND	10	ng/kg
PFUnDA		ND	10	ng/kg
9CL-PF3ONS		ND	10	ng/kg
PFNS		ND	10	ng/kg
PFDoDA		ND	10	ng/kg
PFDS		ND	10	ng/kg
PFTrDA		ND	10	ng/kg
11CL-PF3OUdS		ND	10	ng/kg
FOSA		ND	10	ng/kg
PFTeDA		ND	10	ng/kg
1				

## Blank (BLK)

Lab Sample ID: AK210712B.BLKS2107091

Run in Batch: AK210712B, Run Date: 07/12/2021 17:33, Prep Date: 07/09/2021, Matrix: SO, Dilution: 1

Analyte	Flags	Conc	RDL	Units
PFBA		ND	20	ng/kg
PFPeA		ND	10	ng/kg
4:2 FTSA		ND	10	ng/kg
PFHxA		ND	10	ng/kg
PFBS		ND	10	ng/kg
HFPO-DA		ND	10	ng/kg
PFHpA		ND	10	ng/kg
PFPeS		ND	10	ng/kg
ADONA		ND	10	ng/kg

#### Organics - Volatiles, Prep Batch ID: PF210709S1 (continued)

Surrogates: Yes, QC Types: BLK/LCS/LCSD/MS/DUP

#### Blank (BLK) (continued)

Lab Sample ID: AK210712B.BLKS2107091

Run in Batch: AK210712B, Run Date: 07/12/2021 17:33, Prep Date: 07/09/2021, Matrix: SO, Dilution: 1

Analyte	Flags	Conc	RDL	Units
6:2 FTSA		ND	10	ng/kg
PFOA		ND	10	ng/kg
PFHxS-BR		ND	10	ng/kg
PFHxS-LN		ND	10	ng/kg
PFHxS		ND	10	ng/kg
PFNA		ND	10	ng/kg
8:2 FTSA		ND	10	ng/kg
PFHpS		ND	10	ng/kg
PFDA		ND	10	ng/kg
N-MeFOSAA		ND	10	ng/kg
PFOS-BR		ND	10	ng/kg
EtFOSAA		ND	10	ng/kg
PFOS		ND	10	ng/kg
PFOS-LN		ND	10	ng/kg
PFUnDA		ND	10	ng/kg
9CL-PF3ONS		ND	10	ng/kg
PFNS		ND	10	ng/kg
PFDoDA		ND	10	ng/kg
PFDS		ND	10	ng/kg
PFTrDA		ND	10	ng/kg
FOSA		ND	10	ng/kg
11CL-PF3OUdS		ND	10	ng/kg
PFTeDA		ND	10	ng/kg

#### **Laboratory Control Sample (LCS)**

Lab Sample ID: AK210712B.LCSS2107091

Run in Batch: AK210712B, Run Date: 07/12/2021 16:54, Prep Date: 07/09/2021, Matrix: SO, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
PFBA		106.0	70.0	130.0
PFPeA		103.0	70.0	130.0
4:2 FTSA		112.0	70.0	130.0
PFHxA		100.0	70.0	130.0
PFBS		113.0	70.0	130.0
HFPO-DA		104.0	70.0	130.0
PFHpA		93.8	70.0	130.0
PFPeS		112.0	70.0	130.0
ADONA		90.5	70.0	130.0
6:2 FTSA		105.0	70.0	130.0
PFOA		92.5	70.0	130.0
PFHxS		107.0	70.0	130.0
PFNA		93.9	70.0	130.0
8:2 FTSA		115.0	70.0	130.0
PFHpS		87.9	70.0	130.0
PFDA		111.0	70.0	130.0
N-MeFOSAA		112.0	70.0	130.0
EtFOSAA		103.0	70.0	130.0

#### Organics - Volatiles, Prep Batch ID: PF210709S1 (continued)

Surrogates: Yes, QC Types: BLK/LCS/LCSD/MS/DUP

#### Laboratory Control Sample (LCS) (continued)

Lab Sample ID: AK210712B.LCSS2107091

Run in Batch: AK210712B, Run Date: 07/12/2021 16:54, Prep Date: 07/09/2021, Matrix: SO, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL
PFOS		81.4	70.0	130.0
PFUnDA		97.0	70.0	130.0
9CL-PF3ONS		97.3	70.0	130.0
PFNS		98.1	70.0	130.0
PFDoDA		100.0	70.0	130.0
PFDS		94.0	70.0	130.0
PFTrDA		113.0	70.0	130.0
FOSA		106.0	70.0	130.0
11CL-PF3OUdS		118.0	70.0	130.0
PFTeDA		94.8	70.0	130.0

## **Laboratory Control Sample Duplicate (LCSD)**

Lab Sample ID: AK210712B.LCSDS2107091, Parent Sample ID: AK210712B.LCSS2107091

Run in Batch: AK210712B, Run Date: 07/12/2021 17:14, Prep Date: 07/09/2021, Matrix: SO, Dilution: 1

Analyte	Flags	% Rec	LCL	UCL	RPD	RPD CL
PFBA		103.0	70.0	130.0	2.9	30.0
PFPeA		97.2	70.0	130.0	5.8	30.0
4:2 FTSA		113.0	70.0	130.0	0.9	30.0
PFHxA		96.1	70.0	130.0	4.0	30.0
PFBS		111.0	70.0	130.0	1.8	30.0
HFPO-DA		106.0	70.0	130.0	1.9	30.0
PFHpA		93.9	70.0	130.0	0.1	30.0
PFPeS		96.3	70.0	130.0	15.1	30.0
ADONA		111.0	70.0	130.0	20.3	30.0
6:2 FTSA		100.0	70.0	130.0	4.9	30.0
PFOA		98.8	70.0	130.0	6.6	30.0
PFHxS		111.0	70.0	130.0	3.7	30.0
PFNA		80.9	70.0	130.0	14.9	30.0
8:2 FTSA		101.0	70.0	130.0	13.0	30.0
PFHpS		97.4	70.0	130.0	10.3	30.0
PFDA		96.7	70.0	130.0	13.8	30.0
N-MeFOSAA		114.0	70.0	130.0	1.8	30.0
EtFOSAA		112.0	70.0	130.0	8.4	30.0
PFOS		73.5	70.0	130.0	10.2	30.0
PFUnDA		98.6	70.0	130.0	1.6	30.0
9CL-PF3ONS		92.8	70.0	130.0	4.7	30.0
PFNS		82.1	70.0	130.0	17.8	30.0
PFDoDA		105.0	70.0	130.0	4.9	30.0
PFDS		84.7	70.0	130.0	10.4	30.0
PFTrDA		102.0	70.0	130.0	10.2	30.0
FOSA		104.0	70.0	130.0	1.9	30.0
11CL-PF3OUdS		106.0	70.0	130.0	10.7	30.0
PFTeDA		84.0	70.0	130.0	12.1	30.0

#### Organics - Volatiles, Prep Batch ID: PF210709S1 (continued)

Surrogates: Yes, QC Types: BLK/LCS/LCSD/MS/DUP

#### Matrix Spike (MS)

Lab Sample ID: AK210709.2583209M, Parent Sample ID: S25832.09

Run in Batch: AK210709, Run Date: 07/10/2021 01:16, Prep Date: 07/09/2021, Matrix: SO, Dilution: 5.66

Analyte	Flags	% Rec	LCL	UCL		 
PFBA	*	130.7	70.0	130.0		
PFPeA		116.6	70.0	130.0		
4:2 FTSA		120.1	70.0	130.0		
PFHxA	*	130.7	70.0	130.0		
PFBS		116.6	70.0	130.0		
PFHpA		123.7	70.0	130.0		
PFPeS		109.5	70.0	130.0		
6:2 FTSA		98.9	70.0	130.0		
PFOA	*	134.3	70.0	130.0		
PFHxS		127.2	70.0	130.0		
PFNA		116.6	70.0	130.0		
8:2 FTSA		106.0	70.0	130.0		
PFHpS		95.4	70.0	130.0		
PFDA	*	144.9	70.0	130.0		
N-MeFOSAA		127.2	70.0	130.0		
EtFOSAA		91.9	70.0	130.0		
PFOS	*	10.6	70.0	130.0		
PFUnDA		114.1	70.0	130.0		
PFNS		109.5	70.0	130.0		
PFDoDA		98.9	70.0	130.0		
PFDS	*	-70.7	70.0	130.0		
PFTrDA		116.6	70.0	130.0		
FOSA		120.1	70.0	130.0		
PFTeDA		95.4	70.0	130.0		
11CL-PF3OUdS		116.6	70.0	130.0		
9CL-PF3ONS		102.5	70.0	130.0		
ADONA		106.0	70.0	130.0		
HFPO-DA		116.6	70.0	130.0		

#### **Duplicate (DUP)**

Lab Sample ID: AK210712B.2583208D, Parent Sample ID: S25832.08

Run in Batch: AK210712B, Run Date: 07/12/2021 19:50, Prep Date: 07/09/2021, Matrix: SO, Dilution: 5.19

Analyte	Flags	RPD	RPD CL
PFBA		NC	30.0
PFPeA		NC	30.0
4:2 FTSA		NC	30.0
PFHxA		NC	30.0
PFBS		NC	30.0
PFHpA		NC	30.0
PFPeS		NC	30.0
6:2 FTSA		NC	30.0
PFOA		NC	30.0
PFHxS		NC	30.0
PFHxS-LN		NC	30.0
PFHxS-BR		NC	30.0
PFNA		NC	30.0

#### Organics - Volatiles, Prep Batch ID: PF210709S1 (continued)

Surrogates: Yes, QC Types: BLK/LCS/LCSD/MS/DUP

#### **Duplicate (DUP) (continued)**

Lab Sample ID: AK210712B.2583208D, Parent Sample ID: S25832.08

Run in Batch: AK210712B, Run Date: 07/12/2021 19:50, Prep Date: 07/09/2021, Matrix: SO, Dilution: 5.19

8:2 FTSA       NC       30.0         PFHpS       NC       30.0         PFDA       NC       30.0         N-MeFOSAA       NC       30.0         EtFOSAA       NC       30.0	
PFDA         NC         30.0           N-MeFOSAA         NC         30.0           EtFOSAA         NC         30.0	
N-MeFOSAA NC 30.0 EtFOSAA NC 30.0	
EtFOSAA NC 30.0	
DEGG NG 20.0	
PFOS NC 30.0	
PFOS-LN NC 30.0	
PFOS-BR NC 30.0	
PFUnDA NC 30.0	
PFNS NC 30.0	
PFDoDA NC 30.0	
PFDS NC 30.0	
PFTrDA NC 30.0	
FOSA NC 30.0	
PFTeDA NC 30.0	
11CL-PF3OUdS NC 30.0	
9CL-PF3ONS NC 30.0	
ADONA NC 30.0	
HFPO-DA NC 30.0	



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MERIT LAB NO.		AR 21	SAMPLE IDENTIFICATION-DE	TAG SCRIPTION	Ì	# OF	NONE	HO N	H <sub>2</sub> SO <sub>4</sub>	MeOH	PIHER	PF									Other Special Instructions		
FOR LAB USE ONLY	DATE	-	FINE FLEE WILLIAM STATES				-	_ =	I Z	2 2	7	}	+					53	7		Special instructions		
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