

January 31, 2023

Ryan Peasel Wentzville Water Reclamation Center 2455 Mette Road Wentzville, MO 63385

TEL: (636) 639-7541 FAX: (636) 639-2075

RE: Wentzville Quarterly PFAS

Dear Ryan Peasel:

TEKLAB, INC received 3 samples on 1/4/2023 1:18:00 PM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Patrick Riley

Project Manager

(618)344-1004 ex 44

patrickriley@teklabinc.com



Illinois 100226 Kansas E-10374 Louisiana 05002 Louisiana 05003 Oklahoma 9978

WorkOrder: 23010184



Report Contents

http://www.teklabinc.com/

Client: Wentzville Water Reclamation Center

Work Order: 23010184

Client Project: Wentzville Quarterly PFAS

Report Date: 31-Jan-23

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Definitions

http://www.teklabinc.com/

Client: Wentzville Water Reclamation Center Work Order: 23010184

Client Project: Wentzville Quarterly PFAS Report Date: 31-Jan-23

Abbr Definition

- * Analytes on report marked with an asterisk are not NELAP accredited
- CCV Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
- CRQL A Client Requested Quantitation Limit is a reporting limit that varies according to customer request. The CRQL may not be less than the MDL.
 - DF Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilution factors.
 - DNI Did not ignite
- DUP Laboratory duplicate is a replicate aliquot prepared under the same laboratory conditions and independently analyzed to obtain a measure of precision.
- ICV Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
- IDPH IL Dept. of Public Health
- LCS Laboratory control sample is a sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes and analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system.
- LCSD Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
- MBLK Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
- MDL "The method detection limit is defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results."
- MS Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
- MSD Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
- MW Molecular weight
- NC Data is not acceptable for compliance purposes
- ND Not Detected at the Reporting Limit
- NELAP NELAP Accredited
 - PQL Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions.
 - RL The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
 - RPD Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
 - SPK The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
 - Surr Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
 - TIC Tentatively identified compound: Analytes tentatively identified in the sample by using a library search. Only results not in the calibration standard will be reported as tentatively identified compounds. Results for tentatively identified compounds that are not present in the calibration standard, but are assigned a specific chemical name based upon the library search, are calculated using total peak areas from reconstructed ion chromatograms and a response factor of one. The nearest Internal Standard is used for the calculation. The results of any TICs must be considered estimated, and are flagged with a "T". If the estimated result is above the calibration range it is flagged "ET"
- TNTC Too numerous to count (> 200 CFU)



Definitions

http://www.teklabinc.com/

Client: Wentzville Water Reclamation Center Work Order: 23010184

Client Project: Wentzville Quarterly PFAS Report Date: 31-Jan-23

Qualifiers

- # Unknown hydrocarbon B - Analyte detected in associated Method Blank
 - E Value above quantitation range RL shown is a Client Requested Quantitation Limit
 - I Associated internal standard was outside method criteria
 - Manual Integration used to determine area response
 - R RPD outside accepted recovery limits
 - T TIC(Tentatively identified compound)

- H Holding times exceeded
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
 - Spike Recovery outside recovery limits
 - X Value exceeds Maximum Contaminant Level



Case Narrative

http://www.teklabinc.com/

Client: Wentzville Water Reclamation Center Work Order: 23010184

Client Project: Wentzville Quarterly PFAS Report Date: 31-Jan-23

Cooler Receipt Temp: 4.2 °C

Locations

	Collinsville		Springfield	Kansas City			
Address	5445 Horseshoe Lake Road	Address	3920 Pintail Dr	Address	8421 Nieman Road		
	Collinsville, IL 62234-7425		Springfield, IL 62711-9415		Lenexa, KS 66214		
Phone	(618) 344-1004	Phone	(217) 698-1004	Phone	(913) 541-1998		
Fax	(618) 344-1005	Fax	(217) 698-1005	Fax	(913) 541-1998		
Email	jhriley@teklabinc.com	Email	KKlostermann@teklabinc.com	Email	jhriley@teklabinc.com		
	Collinsville Air		Chicago				
Address	5445 Horseshoe Lake Road	Address	1319 Butterfield Rd.				
	Collinsville, IL 62234-7425		Downers Grove, IL 60515				
Phone	(618) 344-1004	Phone	(630) 324-6855				
Fax	(618) 344-1005	Fax					
Email	EHurley@teklabinc.com	Email	arenner@teklabinc.com				



Accreditations

http://www.teklabinc.com/

Client: Wentzville Water Reclamation Center Work Order: 23010184

Client Project: Wentzville Quarterly PFAS Report Date: 31-Jan-23

State	Dept	Cert#	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2024	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2023	Collinsville
Louisiana	LDEQ	05002	NELAP	6/30/2023	Collinsville
Louisiana	LDEQ	05003	NELAP	6/30/2023	Collinsville
Oklahoma	ODEQ	9978	NELAP	8/31/2023	Collinsville
Arkansas	ADEQ	88-0966		3/14/2023	Collinsville
Illinois	IDPH	17584		5/31/2023	Collinsville
Iowa	IDNR	430		6/1/2024	Collinsville
Kentucky	UST	0073		1/31/2023	Collinsville
Missouri	MDNR	00930		5/31/2023	Collinsville
Missouri	MDNR	930		1/31/2025	Collinsville



Laboratory Results

http://www.teklabinc.com/

Client: Wentzville Water Reclamation Center Work Order: 23010184

Client Project: Wentzville Quarterly PFAS Report Date: 31-Jan-23

Lab ID: 23010184-001 Client Sample ID: COW-WRC-EFF C

Matrix: AQUEOUS Collection Date: 01/04/2023 9:00

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed Batch
MODIFIED 537.1							
PFBS	*	1.99		5.40	ng/L	1	01/10/2023 18:18 201685
PFHxA	*	1.99		9.94	ng/L	1	01/10/2023 18:18 201685
HFPO-DA	*	1.99		ND	ng/L	1	01/10/2023 18:18 201685
PFHpA	*	2.0	J	1.6	ng/L	1	01/10/2023 18:18 201685
PFHxS (Linear)	*	1.99		3.78	ng/L	1	01/10/2023 18:18 201685
ADONA	*	1.99		ND	ng/L	1	01/10/2023 18:18 201685
PFOA	*	1.99		8.12	ng/L	1	01/10/2023 18:18 201685
PFOS (Linear)	*	1.99	S	9.93	ng/L	1	01/10/2023 18:18 20168
PFNA	*	2.0	J	1.5	ng/L	1	01/10/2023 18:18 20168
9CI-PF3ONS	*	1.99		ND	ng/L	1	01/10/2023 18:18 20168
PFDA	*	1.99		2.29	ng/L	1	01/10/2023 18:18 20168
N-MeFOSAA (Linear)	*	2.0	J	0.50	ng/L	1	01/10/2023 18:18 20168
PFUdA	*	1.99		ND	ng/L	1	01/10/2023 18:18 20168
N-EtFOSAA (Linear)	*	1.99	S	ND	ng/L	1	01/10/2023 18:18 20168
11CI-PF3OUdS	*	1.99	S	ND	ng/L	1	01/10/2023 18:18 20168
PFDoA	*	1.99		ND	ng/L	1	01/10/2023 18:18 20168
PFTrDa	*	1.99	S	ND	ng/L	1	01/10/2023 18:18 20168
PFTA	*	1.99	S	ND	ng/L	1	01/10/2023 18:18 20168
Surr: M2-PFDA	*	70-130		90.8	%REC	1	01/10/2023 18:18 20168
Surr: M2-PFHxA	*	70-130		74.6	%REC	1	01/10/2023 18:18 20168
Surr: M3-HFPO-DA	*	70-130	S	59.5	%REC	1	01/10/2023 18:18 201685
Surr: M5-N-EtFOSAA	*	70-130	S	26.0	%REC	1	01/10/2023 18:18 201685

Matrix spike did not recover within control limits due to matrix interference.



Laboratory Results

http://www.teklabinc.com/

Client: Wentzville Water Reclamation Center Work Order: 23010184

Client Project: Wentzville Quarterly PFAS Report Date: 31-Jan-23

Lab ID: 23010184-002 Client Sample ID: COW-WRC-BIOSOLIDS G

Matrix: SOLID Collection Date: 01/04/2023 9:00

Analyses	Certification	RL (Qual	Result	Units	DF	Date Analyzed Batch
SEE ATTACHED FOR SUBO	CONTRACTING ANAL	YSIS					
Subcontracted Analysis	*	0	See	Attached		1	01/13/2023 0:00 R324189



Laboratory Results

http://www.teklabinc.com/

Client: Wentzville Water Reclamation Center Work Order: 23010184

Client Project: Wentzville Quarterly PFAS Report Date: 31-Jan-23

Lab ID: 23010184-003 Client Sample ID: COW-WRC-DIWATER

Matrix: AQUEOUS Collection Date: 01/04/2023 9:00

Analyses	Certification	RL Qual	Result	Units	DF	Date Analyzed Batch
MODIFIED 537.1						
PFBS	*	1.99	ND	ng/L	1	01/10/2023 19:19 201685
PFHxA	*	1.99	ND	ng/L	1	01/10/2023 19:19 201685
HFPO-DA	*	1.99	ND	ng/L	1	01/10/2023 19:19 201685
PFHpA	*	1.99	ND	ng/L	1	01/10/2023 19:19 201685
PFHxS (Linear)	*	1.99	ND	ng/L	1	01/10/2023 19:19 201685
ADONA	*	1.99	ND	ng/L	1	01/10/2023 19:19 201685
PFOA	*	1.99	ND	ng/L	1	01/10/2023 19:19 201685
PFOS (Linear)	*	1.99	ND	ng/L	1	01/10/2023 19:19 201685
PFNA	*	1.99	ND	ng/L	1	01/10/2023 19:19 201685
9CI-PF3ONS	*	1.99	ND	ng/L	1	01/10/2023 19:19 201685
PFDA	*	1.99	ND	ng/L	1	01/10/2023 19:19 201685
N-MeFOSAA (Linear)	*	1.99	ND	ng/L	1	01/10/2023 19:19 201685
PFUdA	*	1.99	ND	ng/L	1	01/10/2023 19:19 201685
N-EtFOSAA (Linear)	*	1.99	ND	ng/L	1	01/10/2023 19:19 201685
11CI-PF3OUdS	*	1.99	ND	ng/L	1	01/10/2023 19:19 201685
PFDoA	*	1.99	ND	ng/L	1	01/10/2023 19:19 201685
PFTrDa	*	1.99	ND	ng/L	1	01/10/2023 19:19 201685
PFTA	*	1.99	ND	ng/L	1	01/10/2023 19:19 201685
Surr: M2-PFDA	*	70-130	91.6	%REC	1	01/10/2023 19:19 201685
Surr: M2-PFHxA	*	70-130	98.8	%REC	1	01/10/2023 19:19 201685
Surr: M3-HFPO-DA	*	70-130	93.7	%REC	1	01/10/2023 19:19 201685
Surr: M5-N-EtFOSAA	*	70-130	87.3	%REC	1	01/10/2023 19:19 201685



Water - pH acceptable upon receipt?

NPDES/CWA TCN interferences checked/treated in the field?

Receiving Check List

http://www.teklabinc.com/

Work Order: 23010184 Client: Wentzville Water Reclamation Center Client Project: Wentzville Quarterly PFAS Report Date: 31-Jan-23 Received By: ANC Carrier: Justin Colp Elizabeth a thurley Reviewed by: Completed by: On: On: 04-Jan-23 04-Jan-23 Lindsey Maddox Elizabeth A. Hurley Extra pages included 0 Pages to follow: Chain of custody Shipping container/cooler in good condition? Yes 🗸 No 🗔 Not Present Temp °C 4.2 Type of thermal preservation? Ice 🗹 Blue Ice None Dry Ice Chain of custody present? **~** No 🗌 Yes Chain of custody signed when relinquished and received? **~** Yes No L **~** Chain of custody agrees with sample labels? No 🗀 Yes **~** Samples in proper container/bottle? Yes No 🗀 **V** Sample containers intact? Yes No L Sufficient sample volume for indicated test? **~** No Yes **✓** No \square All samples received within holding time? Yes NA 🗸 Field Lab \square Reported field parameters measured: Yes 🗹 No 🗌 Container/Temp Blank temperature in compliance? When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected. No VOA vials 🗸 Water - at least one vial per sample has zero headspace? Yes 🗌 No 🗀 No TOX containers Water - TOX containers have zero headspace? Yes No 🗌 Yes 🗹 No 🗌

Yes

No 🗀

NA 🗸

CHAIN OF CUSTODY pg. of Work order # 23010184

TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004 - Fax: (618) 344-1005

Client:	<u> </u>	Wentzville Water	Recla	mation	Cente	r							-		Sa	mp	les	on	S	Į (CE		В	UE I	CE	■ N	O ICE		9	2	0,	c	LTG#	5	
Address:		2455 Mette Road														30 (2 TV)						FI								M. S. H. SA	ONL	Alexander de		
City / State	/ Zip	Wentzville, MO 6	3385												La	b N	ote	s																
Contact:	Ryan F					Phon	one:		636) 639	9-20	71																						
E-Mail:	ryan.pe	easel@wentzvillem		Fax:		(636	639	9-20	75		_	Client Comments:																					
Are these sample Are there any requ	s knowr uired rei	n to be involved in lint to be hazardous? porting limits to be retion.	ا [] net or	Yes _	W	•						s 🔏		Ο																			Same Same	or Language Language
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The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions.

BottleOrder:





Report ID: S44069.01(01) Generated on 01/31/2023

Report to

Attention: Partick Riley

Teklab Inc.

5445 Horseshoe Lake Road

Collinsville, IL 62234

Phone: 618-344-1004 FAX:

Email: patrickriley@teklabinc.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): S44069.01

Project: 23010184

Collected Date(s): 01/04/2023

Submitted Date/Time: 01/06/2023 14:30

Sampled by: Unknown

P.O. #: 33814

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Maya Murshak Technical Director



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).

When MDL results are provided, then 'Not detected' indicates that parameter was not found at a level equal to or greater than the MDL.

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, and 2-chloroethylvinyl ether 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.

Wisconsin PFAs analysis: MDL = LOD; RL = LOQ. LOD and LOQ are adjusted for dilution.

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
Wisconsin DNR	FID# 399147320

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
р	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
BP	Branched



Method Summary

Method Version

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

SM2540B Standard Method 2540 B 2015

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

S44069.01 23010184-002 Soil 01/04/23 09:00

 Report to Teklab Inc.
 Page 5 of 7
 Generated on 01/31/2023

 Project: 23010184
 Report ID: S44069.01(01)



Lab Sample ID: S44069.01

Sample Tag: 23010184-002

Collected Date/Time: 01/04/2023 09:00

Matrix: Soil COC Reference:

Sample Containers

#	Туре	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	250ml Plastic	None	Yes	4.9	IR
1	15ml Centrifuge Tube	None	Yes	4.9	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Initial wt. (g) / Final wt. (g) / Volume (ml)*	11.89/6.38/10	ASTM D7968-17M	01/12/23 14:00	PTW	

Inorganics

Method: SM2540B, Run Date: 01/09/23 15:20, Analyst: MAM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	
Total Solids*	1.8	1		%	1			

Organics

28 PFAs, Method: ASTM D7968-17M, Run Date: 01/13/23 20:39, Analyst: KCV

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PFBA*	2,500	2,000		ng/kg	101	375-22-4	I
PFPeA*	12,000	1,000		ng/kg	101	2706-90-3	
4:2 FTSA*	Not detected	1,000		ng/kg	101	757124-72-4	1
PFHxA*	6,000	1,000		ng/kg	101	307-24-4	
PFBS*	8,800	1,000		ng/kg	101	375-73-5	
PFHpA*	1,300	1,000		ng/kg	101	375-85-9	
PFPeS*	Not detected	1,000		ng/kg	101	2706-91-4	
6:2 FTSA*	Not detected	1,000		ng/kg	101	27619-97-2	1
PFOA*	16,000	1,000		ng/kg	101	335-67-1	
PFHxS*	1,600	1,000		ng/kg	101	355-46-4	
PFHxS-LN*	1,200	1,000		ng/kg	101	355-46-4-LN	
PFHxS-BR*	Not detected	1,000		ng/kg	101	355-46-4-BR	
PFNA*	4,500	1,000		ng/kg	101	375-95-1	
8:2 FTSA*	Not detected	1,000		ng/kg	101	39108-34-4	1
PFHpS*	Not detected	1,000		ng/kg	101	375-92-8	
PFDA*	22,000	1,000		ng/kg	101	335-76-2	
N-MeFOSAA*	2,500	1,000		ng/kg	101	2355-31-9	
EtFOSAA*	1,700	1,000		ng/kg	101	2991-50-6	
PFOS*	34,000	1,000		ng/kg	101	1763-23-1	
PFOS-LN*	31,000	1,000		ng/kg	101	1763-23-1-LN	
PFOS-BR*	3,000	1,000		ng/kg	101	1763-23-1-BR	
PFUnDA*	3,500	1,000		ng/kg	101	2058-94-8	
PFNS*	Not detected	1,000		ng/kg	101	68259-12-1	
PFDoDA*	5,400	1,000		ng/kg	101	307-55-1	
PFDS*	Not detected	1,000		ng/kg	101	335-77-3	
PFTrDA*	Not detected	1,000		ng/kg	101	72629-94-8	
FOSA*	Not detected	1,000		ng/kg	101	754-91-6	
PFTeDA*	1,400	1,000		ng/kg	101	376-06-7	
11CI-PF3OUdS*	Not detected	1,000		ng/kg	101	763051-92-9	
9CI-PF3ONS*	Not detected	1,000		ng/kg	101	756426-58-1	

I-Matrix interference with internal standard



Lab Sample ID: S44069.01 (continued)

Sample Tag: 23010184-002

28 PFAs, Method: ASTM D7968-17M, Run Date: 01/13/23 20:39, Analyst: KCV (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
ADONA*	Not detected	1,000		ng/kg	101	919005-14-4	
HFPO-DA*	Not detected	1,000		ng/kg	101	13252-13-6	

Merit Laboratories Login Checklist

Lab Set ID:S44069

Client: TEKLAB (Teklab Inc.)

Project: 23010184

Submitted: 01/06/2023 14:30 Login User: MMC

Attention: Partick Riley

Address: Teklab Inc. 5445 Horseshoe Lake Road Collinsville, IL 62234

Phone: 618-344-1004 FAX: Email: patrickriley@teklabinc.com

Selec	tion			Description	Note
Samp	ole Receiv	/ing			
01.	X Yes	No	□ N/A	Samples are received at 4C +/- 2C Thermometer #	IR 4.9
02.	X Yes	No	□ N/A	Received on ice/ cooling process begun	
03.	X Yes	No	□ N/A	Samples shipped	FedEx
04.	Yes	X No	□ N/A	Samples left in 24 hr. drop box	
05.	X Yes	No	□ N/A	Are there custody seals/tape or is the drop box locked	
Chair	of Custo	ody			
06.	X Yes	No	N/A	COC adequately filled out	
07.	X 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:	
Prese	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?	
Bottle	e Conditi	ons			
13.	X Yes	No	N/A	All bottles intact	
14.	X Yes	No	N/A	Appropriate analytical bottles are used	
15.	X 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	
_					
Corre	ective acti	on for all	exceptions	is to call the client and to notify the project manager.	
Clien	t Review	Ву:		Date:	

Pq	of	
ry		

TEKLAB, INC. Chain of Custody

5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

	ake Road 234	Cooler Temp:	S	Comments: Please Issue reports and invoices via email only Please analyze for PFAS using the method below and your Std TAT
Project#	23010184			Any changes to analysis/methods must be approved by Teklab, Inc.
5 0 EX- E-51			•	Please run method 1633 PR
Contac Requested Due Dat		Email: priley@Tek Billing/PO: 33814	LabInc.com	Phone: (618) 344-1004
your laboratory do ease contact Tekla	es not currently hold a NEL b immediately. If your labor	ed analytes and must be doc AP accreditation for the requ ratory loses accreditation or	ested method is suspended f	d and/or analytes,
nalyte/method durir	ng the life of the contract, yo	ou must contact Teklab imme	ediately.	
Lab Use	Sample ID	Sample Date/Time	Preservati	tive Matrix
Lab Use 44069.01	Sample ID 23010184-002	Sample Date/Time	Preservati Unpres	tive Matrix Sludge I I I I I I I I I I I I I I I I I I
Lab Use 44069.01	- Commission of the same			tive Matrix
	- Commission of the same		Unpres	Aqueous Aqueous Aqueous
	- Commission of the same		Unpres Other	Sludge
	- Commission of the same		Unpres Other Other	Sludge
	- Commission of the same		Other Other Other Other Other Other	Sludge V
THE PROPERTY OF THE PERSON NAMED IN COLUMN NAM	- Commission of the same		Other Other Other Other Other	Sludge V
	- Commission of the same		Other	Sludge V
	- Commission of the same		Other	Sludge V
	- Commission of the same		Other	Sludge
	- Commission of the same		Other	Sludge V
	- Commission of the same		Other	Sludge