

Report ID: S23831.01(01) Generated on 05/20/2021

Report to

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Report Summary

Lab Sample ID(s): S23831.01-S23831.11

Project: PFAS

Collected Date(s): 05/04/2021 - 05/05/2021 Submitted Date/Time: 05/05/2021 11:20

Sampled by: Unknown

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
р	Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.
x	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

MethodVersionASTM D7968-17MASTM Method D7968 - 17 Modified (Isotopic Dilution)ASTMD7979-19MASTM Method D7979 - 19 Modified (Isotopic Dilution)SM2540BStandard 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 (11 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S23831.01	Influent	Wastewater	05/04/21 11:42
S23831.02	Effluent	Wastewater	05/05/21 08:31
S23831.03	Centrate	Wastewater	05/04/21 09:45
S23831.04	Lime Stab. Sludge	Sludge	05/04/21 10:00
S23831.05	West Rock	Wastewater	05/04/21 09:50
S23831.06	Graphic Packaging	Wastewater	05/04/21 09:28
S23831.07	Bowers	Wastewater	05/04/21 10:17
S23831.08	Domestic #1	Wastewater	05/04/21 10:47
S23831.09	Domestic #2	Wastewater	05/04/21 11:15
S23831.10	Field Blank #1	Liquid	05/05/21 08:33
S23831.11	Field Blank #2	Liquid	05/04/21 10:24



Lab Sample ID: S23831.01

Sample Tag: Influent

Collected Date/Time: 05/04/2021 11:42

Matrix: Wastewater COC Reference: 137365

Sample Containers

Type Preservative(s) Refrigerated? Arrival Temp. (C) Thermometer # 1 15ml Centrifuge Tube None Yes 4.5 IR

Extraction / Prep.

 Parameter
 Result
 Method
 Run Date
 Analyst
 Flags

 Initial wt. (g) / Final wt. (g) / Volume (ml)*
 11.76/6.89/10
 ASTMD7979-19M
 05/06/21 17:00
 KCV

Organics

28 PFAs, Method: ASTMD7979-19M, Run Date: 05/07/21 00:43, Analyst: KCV

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PFBA*	Not detected	92		ng/L	2.05	375-22-4	Χ
PFPeA*	Not detected	4.1		ng/L	2.05	2706-90-3	
4:2 FTSA*	Not detected	2.1		ng/L	2.05	757124-72-4	1
PFHxA*	6.2	2.1		ng/L	2.05	307-24-4	
PFBS*	3.9	2.1		ng/L	2.05	375-73-5	
PFHpA*	Not detected	2.1		ng/L	2.05	375-85-9	
PFPeS*	Not detected	2.1		ng/L	2.05	2706-91-4	
6:2 FTSA*	4.6	2.1		ng/L	2.05	27619-97-2	1
PFOA*	5.4	2.1		ng/L	2.05	335-67-1	
PFHxS*	4.0	2.1		ng/L	2.05	355-46-4	
PFHxS-LN*	2.6	2.1		ng/L	2.05	355-46-4-LN	
PFHxS-BR*	Not detected	2.1		ng/L	2.05	355-46-4-BR	
PFNA*	2.1	2.1		ng/L	2.05	375-95-1	
8:2 FTSA*	Not detected	2.1		ng/L	2.05	39108-34-4	1
PFHpS*	Not detected	2.1		ng/L	2.05	375-92-8	
PFDA*	Not detected	2.1		ng/L	2.05	335-76-2	
N-MeFOSAA*	Not detected	2.1		ng/L	2.05	2355-31-9	
EtFOSAA*	Not detected	4.1		ng/L	2.05	2991-50-6	
PFOS*	7.6	2.1		ng/L	2.05	1763-23-1	
PFOS-LN*	2.4	2.1		ng/L	2.05	1763-23-1-LN	
PFOS-BR*	5.1	2.1		ng/L	2.05	1763-23-1-BR	
PFUnDA*	Not detected	2.1		ng/L	2.05	2058-94-8	
PFNS*	Not detected	2.1		ng/L	2.05	68259-12-1	
PFDoDA*	Not detected	2.1		ng/L	2.05	307-55-1	
PFDS*	Not detected	2.1		ng/L	2.05	335-77-3	
PFTrDA*	Not detected	2.1		ng/L	2.05	72629-94-8	
FOSA*	Not detected	2.1		ng/L	2.05	754-91-6	
PFTeDA*	Not detected	4.1		ng/L	2.05	376-06-7	
11CI-PF3OUdS*	Not detected	2.1		ng/L	2.05	763051-92-9	
9CI-PF3ONS*	Not detected	2.1		ng/L	2.05	756426-58-1	
ADONA*	Not detected	2.1		ng/L	2.05	919005-14-4	
HFPO-DA*	Not detected	10		ng/L	2.05	13252-13-6	

X-Elevated reporting limit due to matrix interference

I-Matrix interference with internal standard



Lab Sample ID: S23831.02

Sample Tag: Effluent

Collected Date/Time: 05/05/2021 08:31

Matrix: Wastewater COC Reference: 137365

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	15ml Centrifuge Tube	None	Yes	4.5	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags	
Initial wt. (g) / Final wt. (g) / Volume (ml)*	11.97/6.89/10	ASTMD7979-19M	05/06/21 17:00	KCV		

Organics

28 PFAs, Method: ASTMD7979-19M, Run Date: 05/07/21 01:03, Analyst: KCV

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PFBA*	Not detected	30		ng/L	1.97	375-22-4	Х
PFPeA*	8.9	3.9		ng/L	1.97	2706-90-3	
4:2 FTSA*	Not detected	2.0		ng/L	1.97	757124-72-4	
PFHxA*	17	2.0		ng/L	1.97	307-24-4	
PFBS*	Not detected	2.0		ng/L	1.97	375-73-5	
PFHpA*	2.4	2.0		ng/L	1.97	375-85-9	
PFPeS*	Not detected	2.0		ng/L	1.97	2706-91-4	
6:2 FTSA*	3.3	2.0		ng/L	1.97	27619-97-2	
PFOA*	5.4	2.0		ng/L	1.97	335-67-1	
PFHxS*	3.0	2.0		ng/L	1.97	355-46-4	
PFHxS-LN*	Not detected	2.0		ng/L	1.97	355-46-4-LN	
PFHxS-BR*	Not detected	2.0		ng/L	1.97	355-46-4-BR	
PFNA*	Not detected	2.0		ng/L	1.97	375-95-1	
8:2 FTSA*	Not detected	2.0		ng/L	1.97	39108-34-4	
PFHpS*	Not detected	2.0		ng/L	1.97	375-92-8	
PFDA*	Not detected	2.0		ng/L	1.97	335-76-2	
N-MeFOSAA*	Not detected	2.0		ng/L	1.97	2355-31-9	
EtFOSAA*	Not detected	3.9		ng/L	1.97	2991-50-6	
PFOS*	2.6	2.0		ng/L	1.97	1763-23-1	
PFOS-LN*	Not detected	2.0		ng/L	1.97	1763-23-1-LN	
PFOS-BR*	Not detected	2.0		ng/L	1.97	1763-23-1-BR	
PFUnDA*	Not detected	2.0		ng/L	1.97	2058-94-8	
PFNS*	Not detected	2.0		ng/L	1.97	68259-12-1	
PFDoDA*	Not detected	2.0		ng/L	1.97	307-55-1	
PFDS*	Not detected	2.0		ng/L	1.97	335-77-3	
PFTrDA*	Not detected	2.0		ng/L	1.97	72629-94-8	
FOSA*	Not detected	2.0		ng/L	1.97	754-91-6	
PFTeDA*	Not detected	3.9		ng/L	1.97	376-06-7	
11CI-PF3OUdS*	Not detected	2.0		ng/L	1.97	763051-92-9	
9CI-PF3ONS*	Not detected	2.0		ng/L	1.97	756426-58-1	
ADONA*	Not detected	2.0		ng/L	1.97	919005-14-4	
HFPO-DA*	Not detected	9.9		ng/L	1.97	13252-13-6	

X-Elevated reporting limit due to matrix interference



Lab Sample ID: S23831.03

Sample Tag: Centrate

Collected Date/Time: 05/04/2021 09:45

Matrix: Wastewater COC Reference: 137365

Sample Containers

Type Preservative(s) Refrigerated? Arrival Temp. (C) Thermometer # 1 15ml Centrifuge Tube None Yes 4.5 IR

Extraction / Prep.

 Parameter
 Result
 Method
 Run Date
 Analyst
 Flags

 Initial wt. (g) / Final wt. (g) / Volume (ml)*
 11.97/7.01/10
 ASTMD7979-19M
 05/06/21 17:00
 KCV

Organics

28 PFAs, Method: ASTMD7979-19M, Run Date: 05/07/21 01:22, Analyst: KCV

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PFBA*	Not detected	40		ng/L	2.02	375-22-4	Χ
PFPeA*	7.3	4.0		ng/L	2.02	2706-90-3	
4:2 FTSA*	Not detected	2.0		ng/L	2.02	757124-72-4	1
PFHxA*	9.4	2.0		ng/L	2.02	307-24-4	
PFBS*	Not detected	2.0		ng/L	2.02	375-73-5	
PFHpA*	2.7	2.0		ng/L	2.02	375-85-9	
PFPeS*	Not detected	2.0		ng/L	2.02	2706-91-4	
6:2 FTSA*	4.7	2.0		ng/L	2.02	27619-97-2	1
PFOA*	6.1	2.0		ng/L	2.02	335-67-1	
PFHxS*	4.1	2.0		ng/L	2.02	355-46-4	
PFHxS-LN*	2.4	2.0		ng/L	2.02	355-46-4-LN	
PFHxS-BR*	Not detected	2.0		ng/L	2.02	355-46-4-BR	
PFNA*	2.5	2.0		ng/L	2.02	375-95-1	
8:2 FTSA*	Not detected	2.0		ng/L	2.02	39108-34-4	1
PFHpS*	Not detected	2.0		ng/L	2.02	375-92-8	
PFDA*	Not detected	2.0		ng/L	2.02	335-76-2	
N-MeFOSAA*	5.0	2.0		ng/L	2.02	2355-31-9	
EtFOSAA*	4.8	4.0		ng/L	2.02	2991-50-6	
PFOS*	11	2.0		ng/L	2.02	1763-23-1	
PFOS-LN*	5.5	2.0		ng/L	2.02	1763-23-1-LN	
PFOS-BR*	5.6	2.0		ng/L	2.02	1763-23-1-BR	
PFUnDA*	Not detected	2.0		ng/L	2.02	2058-94-8	
PFNS*	Not detected	2.0		ng/L	2.02	68259-12-1	
PFDoDA*	Not detected	2.0		ng/L	2.02	307-55-1	
PFDS*	Not detected	2.0		ng/L	2.02	335-77-3	
PFTrDA*	2.1	2.0		ng/L	2.02	72629-94-8	
FOSA*	Not detected	2.0		ng/L	2.02	754-91-6	
PFTeDA*	Not detected	4.0		ng/L	2.02	376-06-7	
11CI-PF3OUdS*	Not detected	2.0		ng/L	2.02	763051-92-9	
9CI-PF3ONS*	Not detected	2.0		ng/L	2.02	756426-58-1	
ADONA*	Not detected	2.0		ng/L	2.02	919005-14-4	
HFPO-DA*	Not detected	10		ng/L	2.02	13252-13-6	

X-Elevated reporting limit due to matrix interference

I-Matrix interference with internal standard



Lab Sample ID: S23831.04

Sample Tag: Lime Stab. Sludge Collected Date/Time: 05/04/2021 10:00

Matrix: Sludge

COC Reference: 137365

Sample Containers

#	Туре	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	15ml Centrifuge Tube	None	Yes	4.5	IR
1	250ml Plastic	None	Yes	4.5	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Initial wt. (g) / Final wt. (g) / Volume (ml)*	9.19/6.88/10	ASTM D7968-17M	05/13/21 12:45	KCV	
Initial wt. (g) / Final wt. (g) / Volume (ml) (F	Re 9 *33/6.91/10	ASTM D7968-17M	05/17/21 14:45	KCV	

Inorganics

Method: SM2540B, Run Date: 05/05/21 16:50, Analyst: ELR

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
Total Solids*	10	1		%	1		

Organics

28 PFAs, Method: ASTM D7968-17M, Run Date: 05/18/21 05:07, Analyst: KCV

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PFBA*	Not detected	1,000		ng/kg	41.3	375-22-4	IX
PFPeA*	Not detected	410		ng/kg	41.3	2706-90-3	
4:2 FTSA*	Not detected	410		ng/kg	41.3	757124-72-4	1
PFHxA*	870	410		ng/kg	41.3	307-24-4	
PFBS*	Not detected	410		ng/kg	41.3	375-73-5	
PFHpA*	Not detected	410		ng/kg	41.3	375-85-9	
PFPeS*	Not detected	410		ng/kg	41.3	2706-91-4	
6:2 FTSA*	Not detected	410		ng/kg	41.3	27619-97-2	1
PFOA*	Not detected	410		ng/kg	41.3	335-67-1	
PFHxS*	Not detected	620		ng/kg	41.3	355-46-4	X
PFHxS-LN*	Not detected	410		ng/kg	41.3	355-46-4-LN	
PFHxS-BR*	Not detected	410		ng/kg	41.3	355-46-4-BR	
PFNA*	Not detected	410		ng/kg	41.3	375-95-1	
8:2 FTSA*	Not detected	410		ng/kg	41.3	39108-34-4	1
PFHpS*	Not detected	410		ng/kg	41.3	375-92-8	
PFDA*	750	410		ng/kg	41.3	335-76-2	
N-MeFOSAA*	2,100	410		ng/kg	41.3	2355-31-9	
EtFOSAA*	1,900	410		ng/kg	41.3	2991-50-6	
PFOS*	2,200	410		ng/kg	41.3	1763-23-1	
PFOS-LN*	1,500	410		ng/kg	41.3	1763-23-1-LN	
PFOS-BR*	670	410		ng/kg	41.3	1763-23-1-BR	
PFUnDA*	690	410		ng/kg	41.3	2058-94-8	1
PFNS*	Not detected	410		ng/kg	41.3	68259-12-1	
PFDoDA*	790	410		ng/kg	41.3	307-55-1	1
PFDS*	Not detected	410		ng/kg	41.3	335-77-3	
PFTrDA*	Not detected	410		ng/kg	41.3	72629-94-8	1
FOSA*	Not detected	410		ng/kg	41.3	754-91-6	
PFTeDA*	Not detected	3,100		ng/kg	41.3	376-06-7	XI1

I-Matrix interference with internal standard X-Elevated reporting limit due to matrix interference 1-IS recovery <10%



Lab Sample ID: S23831.04 (continued)

Sample Tag: Lime Stab. Sludge

28 PFAs, Method: ASTM D7968-17M, Run Date: 05/18/21 05:07, Analyst: KCV (continued)

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags				
11CI-PF3OUdS*	Not detected	410		ng/kg	41.3	763051-92-9					
9CI-PF3ONS*	Not detected	410		ng/kg	41.3	756426-58-1					
ADONA*	Not detected	410		ng/kg	41.3	919005-14-4					
HFPO-DA*	Not detected	410		na/ka	41.3	13252-13-6					



Lab Sample ID: S23831.05

Sample Tag: West Rock

Collected Date/Time: 05/04/2021 09:50

Matrix: Wastewater COC Reference: 137365

Sample Containers

Type Preservative(s) Refrigerated? Arrival Temp. (C) Thermometer #

15ml Centrifuge Tube None Yes 4.5 IR

Extraction / Prep.

Parameter Result Method Run Date Analyst Flags
Initial wt. (g) / Final wt. (g) / Volume (ml)* 11.52/6.79/10 ASTMD7979-19M 05/06/21 17:00 KCV

Organics

28 PFAs, Method: ASTMD7979-19M, Run Date: 05/07/21 01:42, Analyst: KCV

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PFBA*	Not detected	1,700		ng/L	2.11	375-22-4	XI
PFPeA*	29	4.2		ng/L	2.11	2706-90-3	
4:2 FTSA*	Not detected	2.1		ng/L	2.11	757124-72-4	1
PFHxA*	72	2.1		ng/L	2.11	307-24-4	
PFBS*	Not detected	2.1		ng/L	2.11	375-73-5	
PFHpA*	15	2.1		ng/L	2.11	375-85-9	
PFPeS*	Not detected	2.1		ng/L	2.11	2706-91-4	
6:2 FTSA*	14	2.1		ng/L	2.11	27619-97-2	1
PFOA*	32	2.1		ng/L	2.11	335-67-1	
PFHxS*	2.6	2.1		ng/L	2.11	355-46-4	
PFHxS-LN*	2.2	2.1		ng/L	2.11	355-46-4-LN	
PFHxS-BR*	Not detected	2.1		ng/L	2.11	355-46-4-BR	
PFNA*	6.7	2.1		ng/L	2.11	375-95-1	
8:2 FTSA*	3.9	2.1		ng/L	2.11	39108-34-4	1
PFHpS*	Not detected	2.1		ng/L	2.11	375-92-8	
PFDA*	4.1	2.1		ng/L	2.11	335-76-2	
N-MeFOSAA*	Not detected	2.1		ng/L	2.11	2355-31-9	
EtFOSAA*	8.0	4.2		ng/L	2.11	2991-50-6	
PFOS*	17	2.1		ng/L	2.11	1763-23-1	
PFOS-LN*	9.0	2.1		ng/L	2.11	1763-23-1-LN	
PFOS-BR*	8.0	2.1		ng/L	2.11	1763-23-1-BR	
PFUnDA*	2.7	2.1		ng/L	2.11	2058-94-8	
PFNS*	Not detected	2.1		ng/L	2.11	68259-12-1	
PFDoDA*	Not detected	2.1		ng/L	2.11	307-55-1	
PFDS*	Not detected	2.1		ng/L	2.11	335-77-3	
PFTrDA*	Not detected	2.1		ng/L	2.11	72629-94-8	
FOSA*	Not detected	2.1		ng/L	2.11	754-91-6	
PFTeDA*	Not detected	4.2		ng/L	2.11	376-06-7	
11CI-PF3OUdS*	Not detected	2.1		ng/L	2.11	763051-92-9	
9CI-PF3ONS*	Not detected	2.1		ng/L	2.11	756426-58-1	
ADONA*	Not detected	2.1		ng/L	2.11	919005-14-4	
HFPO-DA*	Not detected	11		ng/L	2.11	13252-13-6	

X-Elevated reporting limit due to matrix interference I-Matrix interference with internal standard



Lab Sample ID: S23831.06

Sample Tag: Graphic Packaging Collected Date/Time: 05/04/2021 09:28

Matrix: Wastewater COC Reference: 137365

Sample Containers

Type Preservative(s) Refrigerated? Arrival Temp. (C) Thermometer # 1 15ml Centrifuge Tube None Yes 4.5 IR

Extraction / Prep.

Parameter Result Method Run Date Analyst Flags
Initial wt. (g) / Final wt. (g) / Volume (ml)* 11.97/6.87/10 ASTMD7979-19M 05/06/21 17:00 KCV

Organics

28 PFAs, Method: ASTMD7979-19M, Run Date: 05/07/21 02:01, Analyst: KCV

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PFBA*	Not detected	1,100		ng/L	1.96	375-22-4	XI
PFPeA*	35	3.9		ng/L	1.96	2706-90-3	
4:2 FTSA*	Not detected	2.0		ng/L	1.96	757124-72-4	1
PFHxA*	35	2.0		ng/L	1.96	307-24-4	1
PFBS*	Not detected	2.0		ng/L	1.96	375-73-5	
PFHpA*	28	2.0		ng/L	1.96	375-85-9	
PFPeS*	Not detected	2.0		ng/L	1.96	2706-91-4	
6:2 FTSA*	18	2.0		ng/L	1.96	27619-97-2	1
PFOA*	46	2.0		ng/L	1.96	335-67-1	
PFHxS*	3.0	2.0		ng/L	1.96	355-46-4	
PFHxS-LN*	3.0	2.0		ng/L	1.96	355-46-4-LN	
PFHxS-BR*	Not detected	2.0		ng/L	1.96	355-46-4-BR	
PFNA*	9.5	2.0		ng/L	1.96	375-95-1	
8:2 FTSA*	3.9	2.0		ng/L	1.96	39108-34-4	1
PFHpS*	Not detected	2.0		ng/L	1.96	375-92-8	
PFDA*	6.9	2.0		ng/L	1.96	335-76-2	
N-MeFOSAA*	Not detected	2.0		ng/L	1.96	2355-31-9	
EtFOSAA*	5.6	3.9		ng/L	1.96	2991-50-6	
PFOS*	15	2.0		ng/L	1.96	1763-23-1	
PFOS-LN*	8.3	2.0		ng/L	1.96	1763-23-1-LN	
PFOS-BR*	7.5	2.0		ng/L	1.96	1763-23-1-BR	
PFUnDA*	6.1	2.0		ng/L	1.96	2058-94-8	
PFNS*	Not detected	2.0		ng/L	1.96	68259-12-1	
PFDoDA*	5.0	2.0		ng/L	1.96	307-55-1	
PFDS*	Not detected	2.0		ng/L	1.96	335-77-3	
PFTrDA*	2.5	2.0		ng/L	1.96	72629-94-8	
FOSA*	Not detected	2.0		ng/L	1.96	754-91-6	
PFTeDA*	Not detected	3.9		ng/L	1.96	376-06-7	
11CI-PF3OUdS*	Not detected	2.0		ng/L	1.96	763051-92-9	
9CI-PF3ONS*	Not detected	2.0		ng/L	1.96	756426-58-1	
ADONA*	Not detected	2.0		ng/L	1.96	919005-14-4	
HFPO-DA*	Not detected	9.8		ng/L	1.96	13252-13-6	

X-Elevated reporting limit due to matrix interference I-Matrix interference with internal standard



Lab Sample ID: S23831.07

Sample Tag: Bowers

Collected Date/Time: 05/04/2021 10:17

Matrix: Wastewater COC Reference: 137365

Sample Containers

Type Preservative(s) Refrigerated? Arrival Temp. (C) Thermometer # 15ml Centrifuge Tube None Yes 4.5 IR

Extraction / Prep.

 Parameter
 Result
 Method
 Run Date
 Analyst
 Flags

 Initial wt. (g) / Final wt. (g) / Volume (ml)*
 12.00/6.93/10
 ASTMD7979-19M
 05/06/21 17:00
 KCV

Organics

28 PFAs, Method: ASTMD7979-19M, Run Date: 05/07/21 02:21, Analyst: KCV

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PFBA*	Not detected	9.9		ng/L	1.97	375-22-4	_
PFPeA*	Not detected	3.9		ng/L	1.97	2706-90-3	
4:2 FTSA*	Not detected	2.0		ng/L	1.97	757124-72-4	
PFHxA*	Not detected	2.0		ng/L	1.97	307-24-4	
PFBS*	Not detected	2.0		ng/L	1.97	375-73-5	
PFHpA*	Not detected	2.0		ng/L	1.97	375-85-9	
PFPeS*	Not detected	2.0		ng/L	1.97	2706-91-4	
6:2 FTSA*	Not detected	2.0		ng/L	1.97	27619-97-2	
PFOA*	Not detected	2.0		ng/L	1.97	335-67-1	
PFHxS*	Not detected	2.0		ng/L	1.97	355-46-4	
PFHxS-LN*	Not detected	2.0		ng/L	1.97	355-46-4-LN	
PFHxS-BR*	Not detected	2.0		ng/L	1.97	355-46-4-BR	
PFNA*	Not detected	2.0		ng/L	1.97	375-95-1	
8:2 FTSA*	Not detected	2.0		ng/L	1.97	39108-34-4	
PFHpS*	Not detected	2.0		ng/L	1.97	375-92-8	
PFDA*	Not detected	2.0		ng/L	1.97	335-76-2	
N-MeFOSAA*	Not detected	2.0		ng/L	1.97	2355-31-9	
EtFOSAA*	Not detected	3.9		ng/L	1.97	2991-50-6	
PFOS*	Not detected	2.0		ng/L	1.97	1763-23-1	
PFOS-LN*	Not detected	2.0		ng/L	1.97	1763-23-1-LN	
PFOS-BR*	Not detected	2.0		ng/L	1.97	1763-23-1-BR	
PFUnDA*	Not detected	2.0		ng/L	1.97	2058-94-8	
PFNS*	Not detected	2.0		ng/L	1.97	68259-12-1	
PFDoDA*	Not detected	2.0		ng/L	1.97	307-55-1	
PFDS*	Not detected	2.0		ng/L	1.97	335-77-3	
PFTrDA*	Not detected	2.0		ng/L	1.97	72629-94-8	
FOSA*	Not detected	2.0		ng/L	1.97	754-91-6	
PFTeDA*	Not detected	3.9		ng/L	1.97	376-06-7	
11CI-PF3OUdS*	Not detected	2.0		ng/L	1.97	763051-92-9	
9CI-PF3ONS*	Not detected	2.0		ng/L	1.97	756426-58-1	
ADONA*	Not detected	2.0		ng/L	1.97	919005-14-4	
HFPO-DA*	Not detected	9.9		ng/L	1.97	13252-13-6	



Lab Sample ID: S23831.08

Sample Tag: Domestic #1

Collected Date/Time: 05/04/2021 10:47

Matrix: Wastewater COC Reference: 137365

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	I hermometer #
1	15ml Centrifuge Tube	None	Yes	4.5	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags	
Initial wt. (g) / Final wt. (g) / Volume (ml)*	11.63/6.98/10	ASTMD7979-19M	05/06/21 17:00	KCV		

Organics

28 PFAs, Method: ASTMD7979-19M, Run Date: 05/07/21 02:40, Analyst: KCV

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PFBA*	Not detected	11		ng/L	2.15	375-22-4	_
PFPeA*	Not detected	4.3		ng/L	2.15	2706-90-3	
4:2 FTSA*	Not detected	2.2		ng/L	2.15	757124-72-4	1
PFHxA*	2.8	2.2		ng/L	2.15	307-24-4	
PFBS*	Not detected	2.2		ng/L	2.15	375-73-5	
PFHpA*	Not detected	2.2		ng/L	2.15	375-85-9	
PFPeS*	Not detected	2.2		ng/L	2.15	2706-91-4	
6:2 FTSA*	Not detected	2.2		ng/L	2.15	27619-97-2	1
PFOA*	Not detected	2.2		ng/L	2.15	335-67-1	
PFHxS*	Not detected	11		ng/L	2.15	355-46-4	Χ
PFHxS-LN*	Not detected	2.2		ng/L	2.15	355-46-4-LN	
PFHxS-BR*	Not detected	8.6		ng/L	2.15	355-46-4-BR	Χ
PFNA*	Not detected	2.2		ng/L	2.15	375-95-1	
8:2 FTSA*	Not detected	2.2		ng/L	2.15	39108-34-4	1
PFHpS*	Not detected	2.2		ng/L	2.15	375-92-8	
PFDA*	Not detected	2.2		ng/L	2.15	335-76-2	
N-MeFOSAA*	Not detected	2.2		ng/L	2.15	2355-31-9	
EtFOSAA*	Not detected	4.3		ng/L	2.15	2991-50-6	
PFOS*	Not detected	11		ng/L	2.15	1763-23-1	Χ
PFOS-LN*	Not detected	2.2		ng/L	2.15	1763-23-1-LN	
PFOS-BR*	Not detected	8.6		ng/L	2.15	1763-23-1-BR	Χ
PFUnDA*	Not detected	2.2		ng/L	2.15	2058-94-8	
PFNS*	4.8	2.2		ng/L	2.15	68259-12-1	
PFDoDA*	Not detected	2.2		ng/L	2.15	307-55-1	1
PFDS*	Not detected	2.2		ng/L	2.15	335-77-3	
PFTrDA*	Not detected	2.2		ng/L	2.15	72629-94-8	1
FOSA*	Not detected	2.2		ng/L	2.15	754-91-6	
PFTeDA*	Not detected	4.3		ng/L	2.15	376-06-7	
11CI-PF3OUdS*	Not detected	2.2		ng/L	2.15	763051-92-9	
9CI-PF3ONS*	Not detected	2.2		ng/L	2.15	756426-58-1	
ADONA*	Not detected	2.2		ng/L	2.15	919005-14-4	
HFPO-DA*	Not detected	11		ng/L	2.15	13252-13-6	

I-Matrix interference with internal standard

X-Elevated reporting limit due to matrix interference



Lab Sample ID: S23831.09

Sample Tag: Domestic #2

Collected Date/Time: 05/04/2021 11:15

Matrix: Wastewater COC Reference: 137365

Sample Containers

Type Preservative(s) Refrigerated? Arrival Temp. (C) Thermometer # 1 15ml Centrifuge Tube None Yes 4.5 IR

Extraction / Prep.

 Parameter
 Result
 Method
 Run Date
 Analyst
 Flags

 Initial wt. (g) / Final wt. (g) / Volume (ml)*
 11.61/6.94/10
 ASTMD7979-19M
 05/06/21 17:00
 KCV

Organics

28 PFAs, Method: ASTMD7979-19M, Run Date: 05/07/21 03:00, Analyst: KCV

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PFBA*	Not detected	11		ng/L	2.14	375-22-4	_
PFPeA*	Not detected	4.3		ng/L	2.14	2706-90-3	
4:2 FTSA*	Not detected	2.1		ng/L	2.14	757124-72-4	
PFHxA*	Not detected	2.1		ng/L	2.14	307-24-4	
PFBS*	Not detected	2.1		ng/L	2.14	375-73-5	
PFHpA*	Not detected	2.1		ng/L	2.14	375-85-9	
PFPeS*	Not detected	2.1		ng/L	2.14	2706-91-4	
6:2 FTSA*	Not detected	2.1		ng/L	2.14	27619-97-2	
PFOA*	Not detected	2.1		ng/L	2.14	335-67-1	
PFHxS*	Not detected	3.2		ng/L	2.14	355-46-4	X
PFHxS-LN*	Not detected	2.1		ng/L	2.14	355-46-4-LN	
PFHxS-BR*	Not detected	2.1		ng/L	2.14	355-46-4-BR	
PFNA*	Not detected	2.1		ng/L	2.14	375-95-1	
8:2 FTSA*	Not detected	2.1		ng/L	2.14	39108-34-4	
PFHpS*	Not detected	2.1		ng/L	2.14	375-92-8	
PFDA*	Not detected	2.1		ng/L	2.14	335-76-2	
N-MeFOSAA*	Not detected	2.1		ng/L	2.14	2355-31-9	
EtFOSAA*	Not detected	4.3		ng/L	2.14	2991-50-6	
PFOS*	Not detected	5.4		ng/L	2.14	1763-23-1	Χ
PFOS-LN*	Not detected	2.1		ng/L	2.14	1763-23-1-LN	
PFOS-BR*	Not detected	4.3		ng/L	2.14	1763-23-1-BR	Χ
PFUnDA*	Not detected	2.1		ng/L	2.14	2058-94-8	
PFNS*	Not detected	2.1		ng/L	2.14	68259-12-1	
PFDoDA*	Not detected	2.1		ng/L	2.14	307-55-1	
PFDS*	Not detected	2.1		ng/L	2.14	335-77-3	
PFTrDA*	Not detected	2.1		ng/L	2.14	72629-94-8	
FOSA*	Not detected	2.1		ng/L	2.14	754-91-6	
PFTeDA*	Not detected	4.3		ng/L	2.14	376-06-7	1
11CI-PF3OUdS*	Not detected	2.1		ng/L	2.14	763051-92-9	
9CI-PF3ONS*	Not detected	2.1		ng/L	2.14	756426-58-1	
ADONA*	Not detected	2.1		ng/L	2.14	919005-14-4	
HFPO-DA*	Not detected	11		ng/L	2.14	13252-13-6	

X-Elevated reporting limit due to matrix interference

I-Matrix interference with internal standard



Lab Sample ID: S23831.10

Sample Tag: Field Blank #1

Collected Date/Time: 05/05/2021 08:33

Matrix: Liquid

COC Reference: 137365

Sample Containers

Type Preservative(s) Refrigerated? Arrival Temp. (C) Thermometer # 15ml Centrifuge Tube None Yes 4.5 IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags	
Initial wt. (g) / Final wt. (g) / Volume (ml)*	12.49/6.81/11	ASTMD7979-19M	05/06/21 17:00	KCV		

Organics

28 PFAs, Method: ASTMD7979-19M, Run Date: 05/07/21 03:19, Analyst: KCV

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PFBA*	Not detected	9.7		ng/L	1.94	375-22-4	
PFPeA*	Not detected	3.9		ng/L	1.94	2706-90-3	
4:2 FTSA*	Not detected	1.9		ng/L	1.94	757124-72-4	
PFHxA*	Not detected	1.9		ng/L	1.94	307-24-4	
PFBS*	Not detected	1.9		ng/L	1.94	375-73-5	
PFHpA*	Not detected	1.9		ng/L	1.94	375-85-9	
PFPeS*	Not detected	1.9		ng/L	1.94	2706-91-4	
6:2 FTSA*	Not detected	1.9		ng/L	1.94	27619-97-2	
PFOA*	Not detected	1.9		ng/L	1.94	335-67-1	
PFHxS*	Not detected	1.9		ng/L	1.94	355-46-4	
PFHxS-LN*	Not detected	1.9		ng/L	1.94	355-46-4-LN	
PFHxS-BR*	Not detected	1.9		ng/L	1.94	355-46-4-BR	
PFNA*	Not detected	1.9		ng/L	1.94	375-95-1	
8:2 FTSA*	Not detected	1.9		ng/L	1.94	39108-34-4	
PFHpS*	Not detected	1.9		ng/L	1.94	375-92-8	
PFDA*	Not detected	1.9		ng/L	1.94	335-76-2	
N-MeFOSAA*	Not detected	1.9		ng/L	1.94	2355-31-9	
EtFOSAA*	Not detected	3.9		ng/L	1.94	2991-50-6	
PFOS*	Not detected	1.9		ng/L	1.94	1763-23-1	
PFOS-LN*	Not detected	1.9		ng/L	1.94	1763-23-1-LN	
PFOS-BR*	Not detected	1.9		ng/L	1.94	1763-23-1-BR	
PFUnDA*	Not detected	1.9		ng/L	1.94	2058-94-8	
PFNS*	Not detected	1.9		ng/L	1.94	68259-12-1	
PFDoDA*	Not detected	1.9		ng/L	1.94	307-55-1	
PFDS*	Not detected	1.9		ng/L	1.94	335-77-3	
PFTrDA*	Not detected	1.9		ng/L	1.94	72629-94-8	
FOSA*	Not detected	1.9		ng/L	1.94	754-91-6	
PFTeDA*	Not detected	3.9		ng/L	1.94	376-06-7	
11CI-PF3OUdS*	Not detected	1.9		ng/L	1.94	763051-92-9	
9CI-PF3ONS*	Not detected	1.9		ng/L	1.94	756426-58-1	
ADONA*	Not detected	1.9		ng/L	1.94	919005-14-4	
HFPO-DA*	Not detected	9.7		ng/L	1.94	13252-13-6	



Lab Sample ID: S23831.11

Sample Tag: Field Blank #2

Collected Date/Time: 05/04/2021 10:24

Matrix: Liquid

COC Reference: 137365

Sample Containers

Type Preservative(s) Refrigerated? Arrival Temp. (C) Thermometer # 1 15ml Centrifuge Tube None Yes 4.5 IR

Extraction / Prep.

Parameter	Result Method			Analyst	Flags		
Initial wt. (g) / Final wt. (g) / Volume (ml)*	12.02/6.81/11	ASTMD7979-19M	05/06/21 17:00	KCV	•		

Organics

28 PFAs, Method: ASTMD7979-19M, Run Date: 05/07/21 03:39, Analyst: KCV

PFPeA* Not detected 4.2 ng/L 2.11 2706-90-3 4:2 FTSA* Not detected 2.1 ng/L 2.11 757124-72-4 PFBA* Not detected 2.1 ng/L 2.11 307-24-4 PFBS* Not detected 2.1 ng/L 2.11 375-35-5 PFHA* Not detected 2.1 ng/L 2.11 375-85-9 PFPeS* Not detected 2.1 ng/L 2.11 2766-91-4 6:2 FTSA* Not detected 2.1 ng/L 2.11 2766-91-2 PFOA* Not detected 2.1 ng/L 2.11 335-61-1 PFHXS-BR* Not detected 2.1 ng/L 2.11 355-46-4 PFHXS-BR* Not detected 2.1 ng/L 2.11 355-46-4LN PFHAS-BR* Not detected 2.1 ng/L 2.11 355-46-4LN PFHXS-BR* Not detected 2.1 ng/L 2.11 375-95-1 St2 FTSA* Not	Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
4:2 FTSA* Not detected 2.1 ng/L 2.11 757124-72-4 PFHxA* Not detected 2.1 ng/L 2.11 307-24-4 PFBS' Not detected 2.1 ng/L 2.11 375-73-5 PFHpA* Not detected 2.1 ng/L 2.11 375-85-9 PFHpA* Not detected 2.1 ng/L 2.11 376-85-9 PFPBS' Not detected 2.1 ng/L 2.11 27619-97-2 PFPBS' Not detected 2.1 ng/L 2.11 27619-97-2 PFOA* Not detected 2.1 ng/L 2.11 355-46-4 PFHxS* Not detected 2.1 ng/L 2.11 355-46-4 PFHxS* Not detected 2.1 ng/L 2.11 355-46-4 PFHxS*BR* Not detected 2.1 ng/L 2.11 355-46-4 PFHxS-BR* Not detected 2.1 ng/L 2.11 355-46-4-BR PFNA* Not detected 2.1 ng/L 2.11 375-95-1 8:2 FTSA* Not detected 2.1 ng/L 2.11 375-95-1 8:2 FTSA* Not detected 2.1 ng/L 2.11 375-92-8 PFDA* Not detected 2.1 ng/L 2.11 2991-50-6 PFDA* Not detected 2.1 ng/L 2.11 2991-50-6 PFOS* Not detected 2.1 ng/L 2.11 1763-23-1-BR PFOS-LN* Not detected 2.1 ng/L 2.11 1763-23-1-BR PFOS-BR* Not detected 2.1 ng/L 2.11 375-92-1-BR PFOS-BR* Not detected 2.1 ng/L 2.11 375-92-1-BR PFOS-BR* Not detected 2.1 ng/L 2.11 763-23-1-BR PFOS-BR* Not detected 2.1 ng/L 2.11 375-92-1-BR PFOS-BR* Not detected 2.1 ng/L 2.11 375-92-1-BR PFOS-BR* Not detected 2.1 ng/L 2.11 763-23-1-BR PFOS-BR* Not detected 2.1 ng/L 2.11 763-29-1-BR PFOS-BR* Not detected 2.1 ng/L 2.11 763-9-9 PFOS-BR* Not detecte	PFBA*	Not detected	11		ng/L	2.11	375-22-4	
PFHXA* Not detected 2.1 ng/L 2.11 307-24-4 PFBS* Not detected 2.1 ng/L 2.11 375-73-5 PFPBA* Not detected 2.1 ng/L 2.11 375-85-9 PFPBS* Not detected 2.1 ng/L 2.11 2760-91-4 6:2 FTSA* Not detected 2.1 ng/L 2.11 355-46-4 PFDA* Not detected 2.1 ng/L 2.11 355-46-4 PFHXS* Not detected 2.1 ng/L 2.11 355-46-4 LN PFHXS-BR* Not detected 2.1 ng/L 2.11 355-46-4 LN PFNA* Not detected 2.1 ng/L 2.11 375-95-1 8:2 FTSA* Not detected 2.1 ng/L 2.11 375-92-8 PFDA* Not detected 2.1 ng/L 2.11 395-36-92-8 PFDA* Not detected 2.1 ng/L 2.11 395-37-92-8 PFDA* Not detected <td>PFPeA*</td> <td>Not detected</td> <td>4.2</td> <td></td> <td>ng/L</td> <td>2.11</td> <td>2706-90-3</td> <td></td>	PFPeA*	Not detected	4.2		ng/L	2.11	2706-90-3	
PFBS* Not detected 2.1 ng/L 2.11 375-73-5 PFHpA* Not detected 2.1 ng/L 2.11 375-85-9 PFPPS* Not detected 2.1 ng/L 2.11 2769-91-4 6:2 FTSA* Not detected 2.1 ng/L 2.11 27619-97-2 PFOA* Not detected 2.1 ng/L 2.11 335-67-1 PFHXS-W Not detected 2.1 ng/L 2.11 355-46-4 PFHXS-BR* Not detected 2.1 ng/L 2.11 355-46-4-BR PFNA* Not detected 2.1 ng/L 2.11 355-46-4-BR PFNA* Not detected 2.1 ng/L 2.11 375-95-1 8:2 FTSA* Not detected 2.1 ng/L 2.11 375-95-1 8:2 FTSA* Not detected 2.1 ng/L 2.11 375-92-8 PFDA* Not detected 2.1 ng/L 2.11 375-92-8 PFDA* Not detected <td>4:2 FTSA*</td> <td>Not detected</td> <td>2.1</td> <td></td> <td>ng/L</td> <td>2.11</td> <td>757124-72-4</td> <td></td>	4:2 FTSA*	Not detected	2.1		ng/L	2.11	757124-72-4	
PFHpA* Not detected 2.1 ng/L 2.11 375-85-9 PFPeS* Not detected 2.1 ng/L 2.11 2706-91-4 6:2 FTSA* Not detected 2.1 ng/L 2.11 27619-97-2 PFOA* Not detected 2.1 ng/L 2.11 355-46-4 PFHxS* Not detected 2.1 ng/L 2.11 355-46-4 PFHxS-LN* Not detected 2.1 ng/L 2.11 355-46-4 LN PFHxS-BR* Not detected 2.1 ng/L 2.11 355-46-4 LN PFNA* Not detected 2.1 ng/L 2.11 355-46-4 LN PFNA* Not detected 2.1 ng/L 2.11 355-46-4 LN PFNA* Not detected 2.1 ng/L 2.11 375-95-1 82 FTSA* Not detected 2.1 ng/L 2.11 375-92-8 PFDA* Not detected 2.1 ng/L 2.11 355-76-2 NMEPOSA* Not dete	PFHxA*	Not detected	2.1		ng/L	2.11	307-24-4	
PFPeS* Not detected 2.1 ng/L 2.11 2706-91-4 6:2 FTSA* Not detected 2.1 ng/L 2.11 27619-97-2 PFOA* Not detected 2.1 ng/L 2.11 355-46-4 PFHXS* Not detected 2.1 ng/L 2.11 355-46-4-LN PFHXS-BR* Not detected 2.1 ng/L 2.11 355-46-4-BR PFNA* Not detected 2.1 ng/L 2.11 375-95-1 8:2 FTSA* Not detected 2.1 ng/L 2.11 375-95-1 8:2 FTSA* Not detected 2.1 ng/L 2.11 375-95-1 8:2 FTSA* Not detected 2.1 ng/L 2.11 375-92-8 PFDA* Not detected 2.1 ng/L 2.11 375-92-8 PFDA* Not detected 2.1 ng/L 2.11 375-92-8 PFDA* Not detected 2.1 ng/L 2.11 291-0-6 PFOS* Not detected </td <td>PFBS*</td> <td>Not detected</td> <td>2.1</td> <td></td> <td>ng/L</td> <td>2.11</td> <td>375-73-5</td> <td></td>	PFBS*	Not detected	2.1		ng/L	2.11	375-73-5	
6:2 FTSA* Not detected 2.1 ng/L 2.11 27619-97-2 PFOA* Not detected 2.1 ng/L 2.11 335-67-1 PFHXS* Not detected 2.1 ng/L 2.11 355-46-4 PFHXS*LN* Not detected 2.1 ng/L 2.11 355-46-4 LN PFHXS*BR* Not detected 2.1 ng/L 2.11 355-46-4 LN PFNA* Not detected 2.1 ng/L 2.11 355-46-4 LN PFNA* Not detected 2.1 ng/L 2.11 355-46-4 LN PFNA* Not detected 2.1 ng/L 2.11 375-95-1 8:2 FTSA* Not detected 2.1 ng/L 2.11 375-92-8 PFDA* Not detected 2.1 ng/L 2.11 335-76-2 N-MeFOSAA* Not detected 2.1 ng/L 2.11 2355-31-9 EiFOSAA* Not detected 2.1 ng/L 2.11 1763-23-1 PFOS*-IN* <td< td=""><td>PFHpA*</td><td>Not detected</td><td>2.1</td><td></td><td>ng/L</td><td>2.11</td><td>375-85-9</td><td></td></td<>	PFHpA*	Not detected	2.1		ng/L	2.11	375-85-9	
PFOA* Not detected 2.1 ng/L 2.11 335-67-1 PFHxS* Not detected 2.1 ng/L 2.11 355-46-4 PFHxS-LN* Not detected 2.1 ng/L 2.11 355-46-4-LN PFHxS-BR* Not detected 2.1 ng/L 2.11 355-46-4-BR PFNA* Not detected 2.1 ng/L 2.11 375-95-1 8:2 FTSA* Not detected 2.1 ng/L 2.11 375-92-8 PFDA* Not detected 2.1 ng/L 2.11 763-23-1 PFOS* Not detected	PFPeS*	Not detected	2.1		ng/L	2.11	2706-91-4	
PFHxS* Not detected 2.1 ng/L 2.11 355-46-4 PFHxS-LN* Not detected 2.1 ng/L 2.11 355-46-4-LN PFHxS-BR* Not detected 2.1 ng/L 2.11 355-46-4-LN PFNA* Not detected 2.1 ng/L 2.11 355-46-4-BR PFNA* Not detected 2.1 ng/L 2.11 39108-34-4 PFDA* Not detected 2.1 ng/L 2.11 375-92-8 PFDA* Not detected 2.1 ng/L 2.11 335-76-2 N-MeFOSAA* Not detected 2.1 ng/L 2.11 2355-31-9 EIFOSAA* Not detected 2.1 ng/L 2.11 2991-50-6 PFOS* Not detected 2.1 ng/L 2.11 1763-23-1-BR PFOS-LN* Not detected 2.1 ng/L 2.11 1763-23-1-LN PFOS-BR* Not detected 2.1 ng/L 2.11 1763-23-1-BR PFUDDA*	6:2 FTSA*	Not detected	2.1		ng/L	2.11	27619-97-2	
PFHxS-LN* Not detected 2.1 ng/L 2.11 355-46-4-LN PFHxS-BR* Not detected 2.1 ng/L 2.11 355-46-4-BR PFNA* Not detected 2.1 ng/L 2.11 375-95-1 8:2 FTSA* Not detected 2.1 ng/L 2.11 39108-34-4 PFDS* Not detected 2.1 ng/L 2.11 375-92-8 PFDA* Not detected 2.1 ng/L 2.11 335-76-2 N-MeFOSAA* Not detected 2.1 ng/L 2.11 2355-31-9 EtFOSAA* Not detected 2.1 ng/L 2.11 2991-50-6 PFOS* Not detected 2.1 ng/L 2.11 1763-23-1-B PFOS-LN* Not detected 2.1 ng/L 2.11 1763-23-1-LN PFOS-BR* Not detected 2.1 ng/L 2.11 1763-23-1-LN PFNS* Not detected 2.1 ng/L 2.11 1763-23-1-LN PFDDA*	PFOA*	Not detected	2.1		ng/L	2.11	335-67-1	
PFHxS-BR* Not detected 2.1 ng/L 2.11 355-46-4-BR PFNA* Not detected 2.1 ng/L 2.11 375-95-1 8:2 FTSA* Not detected 2.1 ng/L 2.11 39108-34-4 PFDA* Not detected 2.1 ng/L 2.11 375-92-8 PFDA* Not detected 2.1 ng/L 2.11 335-76-2 N-MeFOSAA* Not detected 2.1 ng/L 2.11 2355-31-9 EIFOSAA* Not detected 4.2 ng/L 2.11 2991-50-6 PFOS* Not detected 2.1 ng/L 2.11 1763-23-1 PFOS-LN* Not detected 2.1 ng/L 2.11 1763-23-1-LN PFOS-BR* Not detected 2.1 ng/L 2.11 1763-23-1-BR PFUnDA* Not detected 2.1 ng/L 2.11 307-55-1 PFDS* Not detected 2.1 ng/L 2.11 307-55-1 PFDS* Not	PFHxS*	Not detected	2.1		ng/L	2.11	355-46-4	
PFNA* Not detected 2.1 ng/L 2.11 375-95-1 8:2 FTSA* Not detected 2.1 ng/L 2.11 39108-34-4 PFDA* Not detected 2.1 ng/L 2.11 375-92-8 PFDA* Not detected 2.1 ng/L 2.11 335-76-2 N-MeFOSAA* Not detected 2.1 ng/L 2.11 2991-50-6 PFOS* Not detected 2.1 ng/L 2.11 1763-23-1 PFOS*-LN* Not detected 2.1 ng/L 2.11 1763-23-1-LN PFOS-BR* Not detected 2.1 ng/L 2.11 1763-23-1-BR PFUnDA* Not detected 2.1 ng/L 2.11 1763-23-1-BR PFDS** Not detected 2.1 ng/L 2.11 307-55-1 PFDs* Not detected 2.1 ng/L 2.11 307-55-1 PFDs* Not detected 2.1 ng/L 2.11 7629-94-8 FOSA* Not dete	PFHxS-LN*	Not detected	2.1		ng/L	2.11	355-46-4-LN	
8:2 FTSA* Not detected 2.1 ng/L 2.11 39108-34-4 PFHpS* Not detected 2.1 ng/L 2.11 375-92-8 PFDA* Not detected 2.1 ng/L 2.11 335-76-2 N-MeFOSAA* Not detected 2.1 ng/L 2.11 2355-31-9 EtFOSAA* Not detected 4.2 ng/L 2.11 2991-50-6 PFOS* Not detected 2.1 ng/L 2.11 1763-23-1 PFOS-LN* Not detected 2.1 ng/L 2.11 1763-23-1-LN PFOS-BR* Not detected 2.1 ng/L 2.11 1763-23-1-ER PFUNDA* Not detected 2.1 ng/L 2.11 2058-94-8 PFNS** Not detected 2.1 ng/L 2.11 68259-12-1 PFDDDA* Not detected 2.1 ng/L 2.11 307-55-1 PFTDA* Not detected 2.1 ng/L 2.11 72629-94-8 FOSA* Not detected 2.1 ng/L 2.11 754-91-6 PFTEDA* </td <td>PFHxS-BR*</td> <td>Not detected</td> <td>2.1</td> <td></td> <td>ng/L</td> <td>2.11</td> <td>355-46-4-BR</td> <td></td>	PFHxS-BR*	Not detected	2.1		ng/L	2.11	355-46-4-BR	
PFHpS* Not detected 2.1 ng/L 2.11 375-92-8 PFDA* Not detected 2.1 ng/L 2.11 335-76-2 N-MeFOSAA* Not detected 2.1 ng/L 2.11 2355-31-9 EtFOSAA* Not detected 4.2 ng/L 2.11 2991-50-6 PFOS* Not detected 2.1 ng/L 2.11 1763-23-1 PFOS-LN* Not detected 2.1 ng/L 2.11 1763-23-1-LN PFOS-BR* Not detected 2.1 ng/L 2.11 1763-23-1-LN PFUnDA* Not detected 2.1 ng/L 2.11 1763-23-1-LN PFNS** Not detected 2.1 ng/L 2.11 2058-94-8 PFNS** Not detected 2.1 ng/L 2.11 307-55-1 PFDDDA* Not detected 2.1 ng/L 2.11 335-77-3 PFTDDA* Not detected 2.1 ng/L 2.11 754-91-6 PFTDA* Not	PFNA*	Not detected	2.1		ng/L	2.11	375-95-1	
PFDA* Not detected 2.1 ng/L 2.11 335-76-2 N-MeFOSAA* Not detected 2.1 ng/L 2.11 2355-31-9 EtFOSAA* Not detected 4.2 ng/L 2.11 2991-50-6 PFOS* Not detected 2.1 ng/L 2.11 1763-23-1 PFOS-LN* Not detected 2.1 ng/L 2.11 1763-23-1-LN PFOS-BR* Not detected 2.1 ng/L 2.11 1763-23-1-BR PFUnDA* Not detected 2.1 ng/L 2.11 2058-94-8 PFNS* Not detected 2.1 ng/L 2.11 68259-12-1 PFDS* Not detected 2.1 ng/L 2.11 307-55-1 PFDS* Not detected 2.1 ng/L 2.11 756-99-94-8 FOSA* Not detected 2.1 ng/L 2.11 754-91-6 PFTEDA* Not detected 2.1 ng/L 2.11 763051-92-9 9CI-PF3ONS*	8:2 FTSA*	Not detected	2.1		ng/L	2.11	39108-34-4	
N-MeFOSAA* Not detected 2.1 ng/L 2.11 2355-31-9 EtFOSAA* Not detected 4.2 ng/L 2.11 2991-50-6 PFOS* Not detected 2.1 ng/L 2.11 1763-23-1 PFOS-LN* Not detected 2.1 ng/L 2.11 1763-23-1-LN PFOS-BR* Not detected 2.1 ng/L 2.11 1763-23-1-BR PFUnDA* Not detected 2.1 ng/L 2.11 2058-94-8 PFNS* Not detected 2.1 ng/L 2.11 68259-12-1 PFDoDA* Not detected 2.1 ng/L 2.11 307-55-1 PFDS* Not detected 2.1 ng/L 2.11 335-77-3 PFTrDA* Not detected 2.1 ng/L 2.11 754-91-6 PFTeDA* Not detected 2.1 ng/L 2.11 754-91-6 PFTeDA* Not detected 2.1 ng/L 2.11 763051-92-9 9CI-PF3ONS* <	PFHpS*	Not detected	2.1		ng/L	2.11	375-92-8	
EtFOSAA* Not detected 4.2 ng/L 2.11 2991-50-6 PFOS* Not detected 2.1 ng/L 2.11 1763-23-1 PFOS-LN* Not detected 2.1 ng/L 2.11 1763-23-1-LN PFOS-BR* Not detected 2.1 ng/L 2.11 1763-23-1-BR PFUNDA* Not detected 2.1 ng/L 2.11 2058-94-8 PFNS* Not detected 2.1 ng/L 2.11 68259-12-1 PFDoDA* Not detected 2.1 ng/L 2.11 307-55-1 PFDS* Not detected 2.1 ng/L 2.11 335-77-3 PFTrDA* Not detected 2.1 ng/L 2.11 72629-94-8 FOSA* Not detected 2.1 ng/L 2.11 754-91-6 PFTeDA* Not detected 4.2 ng/L 2.11 376-06-7 11CI-PF3OUdS* Not detected 2.1 ng/L 2.11 756426-58-1 ADONA* Not detected 2.1 ng/L 2.11 756426-58-1 ADONA*	PFDA*	Not detected	2.1		ng/L	2.11	335-76-2	
PFOS* Not detected 2.1 ng/L 2.11 1763-23-1 PFOS-LN* Not detected 2.1 ng/L 2.11 1763-23-1-LN PFOS-BR* Not detected 2.1 ng/L 2.11 1763-23-1-BR PFUnDA* Not detected 2.1 ng/L 2.11 2058-94-8 PFNS* Not detected 2.1 ng/L 2.11 68259-12-1 PFDOA* Not detected 2.1 ng/L 2.11 307-55-1 PFDS* Not detected 2.1 ng/L 2.11 335-77-3 PFTrDA* Not detected 2.1 ng/L 2.11 72629-94-8 FOSA* Not detected 2.1 ng/L 2.11 754-91-6 PFTeDA* Not detected 2.1 ng/L 2.11 376-06-7 11CI-PF3OUdS* Not detected 2.1 ng/L 2.11 756426-58-1 ADONA* Not detected 2.1 ng/L 2.11 919005-14-4	N-MeFOSAA*	Not detected	2.1		ng/L	2.11	2355-31-9	
PFOS-LN* Not detected 2.1 ng/L 2.11 1763-23-1-LN PFOS-BR* Not detected 2.1 ng/L 2.11 1763-23-1-BR PFUnDA* Not detected 2.1 ng/L 2.11 2058-94-8 PFNS* Not detected 2.1 ng/L 2.11 68259-12-1 PFDoDA* Not detected 2.1 ng/L 2.11 307-55-1 PFDS* Not detected 2.1 ng/L 2.11 335-77-3 PFTrDA* Not detected 2.1 ng/L 2.11 72629-94-8 FOSA* Not detected 2.1 ng/L 2.11 754-91-6 PFTeDA* Not detected 4.2 ng/L 2.11 376-06-7 11CI-PF3OUdS* Not detected 2.1 ng/L 2.11 763051-92-9 9CI-PF3ONS* Not detected 2.1 ng/L 2.11 756426-58-1 ADONA* Not detected 2.1 ng/L 2.11 919005-14-4	EtFOSAA*	Not detected	4.2		ng/L	2.11	2991-50-6	
PFOS-BR* Not detected 2.1 ng/L 2.11 1763-23-1-BR PFUnDA* Not detected 2.1 ng/L 2.11 2058-94-8 PFNS* Not detected 2.1 ng/L 2.11 68259-12-1 PFDODA* Not detected 2.1 ng/L 2.11 307-55-1 PFDS* Not detected 2.1 ng/L 2.11 335-77-3 PFTrDA* Not detected 2.1 ng/L 2.11 72629-94-8 FOSA* Not detected 2.1 ng/L 2.11 754-91-6 PFTeDA* Not detected 4.2 ng/L 2.11 376-06-7 11CI-PF3OUdS* Not detected 2.1 ng/L 2.11 763051-92-9 9CI-PF3ONS* Not detected 2.1 ng/L 2.11 756426-58-1 ADONA* Not detected 2.1 ng/L 2.11 919005-14-4	PFOS*	Not detected	2.1		ng/L	2.11	1763-23-1	
PFUnDA* Not detected 2.1 ng/L 2.11 2058-94-8 PFNS* Not detected 2.1 ng/L 2.11 68259-12-1 PFDoDA* Not detected 2.1 ng/L 2.11 307-55-1 PFDS* Not detected 2.1 ng/L 2.11 335-77-3 PFTrDA* Not detected 2.1 ng/L 2.11 72629-94-8 FOSA* Not detected 2.1 ng/L 2.11 754-91-6 PFTeDA* Not detected 4.2 ng/L 2.11 376-06-7 11CI-PF3OUdS* Not detected 2.1 ng/L 2.11 763051-92-9 9CI-PF3ONS* Not detected 2.1 ng/L 2.11 756426-58-1 ADONA* Not detected 2.1 ng/L 2.11 919005-14-4	PFOS-LN*	Not detected	2.1		ng/L	2.11	1763-23-1-LN	
PFNS* Not detected 2.1 ng/L 2.11 68259-12-1 PFDoDA* Not detected 2.1 ng/L 2.11 307-55-1 PFDS* Not detected 2.1 ng/L 2.11 335-77-3 PFTrDA* Not detected 2.1 ng/L 2.11 72629-94-8 FOSA* Not detected 2.1 ng/L 2.11 754-91-6 PFTeDA* Not detected 4.2 ng/L 2.11 376-06-7 11CI-PF3OUdS* Not detected 2.1 ng/L 2.11 763051-92-9 9CI-PF3ONS* Not detected 2.1 ng/L 2.11 756426-58-1 ADONA* Not detected 2.1 ng/L 2.11 919005-14-4	PFOS-BR*	Not detected	2.1		ng/L	2.11	1763-23-1-BR	
PFDoDA* Not detected 2.1 ng/L 2.11 307-55-1 PFDS* Not detected 2.1 ng/L 2.11 335-77-3 PFTrDA* Not detected 2.1 ng/L 2.11 72629-94-8 FOSA* Not detected 2.1 ng/L 2.11 754-91-6 PFTeDA* Not detected 4.2 ng/L 2.11 376-06-7 11CI-PF3OUdS* Not detected 2.1 ng/L 2.11 763051-92-9 9CI-PF3ONS* Not detected 2.1 ng/L 2.11 756426-58-1 ADONA* Not detected 2.1 ng/L 2.11 919005-14-4	PFUnDA*	Not detected	2.1		ng/L	2.11	2058-94-8	
PFDS* Not detected 2.1 ng/L 2.11 335-77-3 PFTrDA* Not detected 2.1 ng/L 2.11 72629-94-8 FOSA* Not detected 2.1 ng/L 2.11 754-91-6 PFTeDA* Not detected 4.2 ng/L 2.11 376-06-7 11CI-PF3OUdS* Not detected 2.1 ng/L 2.11 763051-92-9 9CI-PF3ONS* Not detected 2.1 ng/L 2.11 756426-58-1 ADONA* Not detected 2.1 ng/L 2.11 919005-14-4	PFNS*	Not detected	2.1		ng/L	2.11	68259-12-1	
PFTrDA* Not detected 2.1 ng/L 2.11 72629-94-8 FOSA* Not detected 2.1 ng/L 2.11 754-91-6 PFTeDA* Not detected 4.2 ng/L 2.11 376-06-7 11Cl-PF3OUdS* Not detected 2.1 ng/L 2.11 763051-92-9 9Cl-PF3ONS* Not detected 2.1 ng/L 2.11 756426-58-1 ADONA* Not detected 2.1 ng/L 2.11 919005-14-4	PFDoDA*	Not detected	2.1		ng/L	2.11	307-55-1	
FOSA* Not detected 2.1 ng/L 2.11 754-91-6 PFTeDA* Not detected 4.2 ng/L 2.11 376-06-7 11CI-PF3OUdS* Not detected 2.1 ng/L 2.11 763051-92-9 9CI-PF3ONS* Not detected 2.1 ng/L 2.11 756426-58-1 ADONA* Not detected 2.1 ng/L 2.11 919005-14-4	PFDS*	Not detected	2.1		ng/L	2.11	335-77-3	
PFTeDA* Not detected 4.2 ng/L 2.11 376-06-7 11Cl-PF3OUdS* Not detected 2.1 ng/L 2.11 763051-92-9 9Cl-PF3ONS* Not detected 2.1 ng/L 2.11 756426-58-1 ADONA* Not detected 2.1 ng/L 2.11 919005-14-4	PFTrDA*	Not detected	2.1		ng/L	2.11	72629-94-8	
11CI-PF3OUdS* Not detected 2.1 ng/L 2.11 763051-92-9 9CI-PF3ONS* Not detected 2.1 ng/L 2.11 756426-58-1 ADONA* Not detected 2.1 ng/L 2.11 919005-14-4	FOSA*	Not detected	2.1		ng/L	2.11	754-91-6	
9CI-PF3ONS* Not detected 2.1 ng/L 2.11 756426-58-1 ADONA* Not detected 2.1 ng/L 2.11 919005-14-4	PFTeDA*	Not detected	4.2		ng/L	2.11	376-06-7	
9CI-PF3ONS* Not detected 2.1 ng/L 2.11 756426-58-1 ADONA* Not detected 2.1 ng/L 2.11 919005-14-4	11CI-PF3OUdS*	Not detected	2.1		ng/L	2.11	763051-92-9	
ADONA* Not detected 2.1 ng/L 2.11 919005-14-4	9CI-PF3ONS*	Not detected	2.1			2.11	756426-58-1	
HFPO-DA* Not detected 11 ng/L 2.11 13252-13-6	ADONA*	Not detected	2.1			2.11	919005-14-4	
	HFPO-DA*	Not detected	11		ng/L	2.11	13252-13-6	

Merit Laboratories Login Checklist

Lab Set ID:S23831

Client: MISCPFC (City of Battle Creek - WWTP)

Project: PFAS

Submitted: 05/05/2021 11:20 Login User: MMC

Attention: Sarah Newton-Peacock Address: City of Battle Creek - WWTP 2000 W. River Road Battle Creek, MI 49037

Phone: 269-966-3513 FAX: Email: sanewton@battlecreekmi.gov

Selection	Description	Note
Sample Receiving		
01. X Yes No N/	A Samples are received at 4C +/- 2C Thermometer #	IR 4.5
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	A Are there custody seals/tape or is the drop box locked	
Chain of Custody		
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:	
Preservation		
10. X Yes No N/	A Do sample have correct chemical preservation	
11. Yes No X N/A	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 Conditions		
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	A Do water VOC or TOX bottles contain headspace	

Corrective action for all	exceptions is to call the	client and to notify	the project manager
Client Review By:		Date	<u>:</u>



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

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REPOR	т то	7	Laboratories, Inc.	CH	AIN OF C	JS	TOI	DY F	RECO	RD								INVO	ICE	TO
CONTACT NAME Sarah Nawton-Peacock City of Battle Creak - WWTP ADDRESS ADDRES					CONTACT NAME															
COMPANY City of Bottle Creak - WWTP					COMPANY															
ADDRESS Q J Character Q J						ADDRESS														
Battle Creek STATE ZIP CODE 49037					18	CITY STATE ZIP CODE										u 5				
IPHONE NO. I FAX NO. I P.O. NO.					PHONE NO. E-MAIL ADDRESS															
269-966 E-MAIL ADDRESS	-35 13	115	- 1	QUOTE NO.							ANALYS	IS (ATTA)	CHIIS	TIEM	IORE	SPAC	E IS REQU	IRED)		16,466
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PROJECT NO./NAM			AT 26	1							AS P						Service Service	VAP [Drinking	Water
TURNAROUNI	TIME REC	UIRED	□ 1 DAY □ 2 DAYS □ 3 DAY	YS XSTANDA	RD OTHER				-		28 Analytes						□ DoD		NPDES	
DELIVERABLE	S REQUIRE	ED □ST	D D LEVEL II D LEVEL III	□ LEVEL IV □		ER _					28			Fau	191		Project	Location	S	1
MATRIX CODE:	GW=GROUN SL=SLUDGI		WW=WASTEWATER S=SOI DRINKING WATER O=OIL W	L L=LIQUID 'P=WIPE A=AI	SD=SOLID R W=WASTE	1	# Containers & Preservatives										□ Detroi		New Yo	rk
MERIT	YE	AR	SAMPLE TO IDENTIFICATION-DES	AG	XIX	LES H	4 5	000	H H		EGE			-1309	12:00	Serie in	☐ Other			
LAB NO. FOR LAB USE ONLY	DATE	TIME	IDENTIFICATION-DES	SCRIPTION	MATRIX # OF	BOTTL	를 포	HNO ₃	NaOH						_		Special	Instruction	ons	
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