

ANALYTICAL REPORT

Eurofins TestAmerica, Michigan
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Laboratory Job ID: 190-26098-1

Client Project/Site: Village of Romeo-PFAS - BIOSOLIDS

For:

Village of Romeo
121 W. St. Clair
Romeo, Michigan 48065

Attn: Al Lapeer

Sue Schafer

Authorized for release by:
6/16/2021 12:05:54 PM

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Results relate only to the items tested and the sample(s) as received by the laboratory.



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Sample Summary

Client: Village of Romeo
Project/Site: Village of Romeo-PFAS - BIOSOLIDS

Job ID: 190-26098-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
190-26098-1	PFAS	Solid	06/02/21 08:00	06/03/21 15:24	

Case Narrative

Client: Village of Romeo
Project/Site: Village of Romeo-PFAS - BIOSOLIDS

Job ID: 190-26098-1

Job ID: 190-26098-1

Laboratory: Eurofins TestAmerica, Michigan

Narrative

Job Narrative 190-26098-1

Comments

No additional comments.

Receipt

The sample was received on 6/3/2021 3:24 PM. Unless otherwise noted below, the sample arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.0° C.

LCMS

Method 537 (modified): The Isotope Dilution Analyte (IDA) recovery associated with the following sample is below the method recommended limit: PFAS (190-26098-1). Generally, data quality is not considered affected if the IDA signal-to-noise ratio is greater than 10:1, which is achieved for all IDA in the sample.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

Method SHAKE: The following sample was yellow after final volume/extraction: PFAS (190-26098-1).

preparation batch 320-497937
Method: PFC_IDA/Shake_Bath_14D
Matrix: Solid

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Client Sample Results

Client: Village of Romeo
Project/Site: Village of Romeo-PFAS - BIOSOLIDS

Job ID: 190-26098-1

Client Sample ID: PFAS

Lab Sample ID: 190-26098-1

Date Collected: 06/02/21 08:00

Matrix: Solid

Date Received: 06/03/21 15:24

Percent Solids: 4.3

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<4.6		4.6	ug/Kg	✱	06/11/21 19:04	06/14/21 23:55	1
F-53B Major	<4.6		4.6	ug/Kg	✱	06/11/21 19:04	06/14/21 23:55	1
F-53B Minor	<4.6		4.6	ug/Kg	✱	06/11/21 19:04	06/14/21 23:55	1
4:2 FTS	<46		46	ug/Kg	✱	06/11/21 19:04	06/14/21 23:55	1
6:2 FTS	<46		46	ug/Kg	✱	06/11/21 19:04	06/14/21 23:55	1
8:2 FTS	<46		46	ug/Kg	✱	06/11/21 19:04	06/14/21 23:55	1
HFPO-DA (GenX)	<5.7		5.7	ug/Kg	✱	06/11/21 19:04	06/14/21 23:55	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<46		46	ug/Kg	✱	06/11/21 19:04	06/14/21 23:55	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<46		46	ug/Kg	✱	06/11/21 19:04	06/14/21 23:55	1
Perfluorobutanesulfonic acid (PFBS)	<4.6		4.6	ug/Kg	✱	06/11/21 19:04	06/14/21 23:55	1
Perfluorobutanoic acid (PFBA)	<4.6		4.6	ug/Kg	✱	06/11/21 19:04	06/14/21 23:55	1
Perfluorodecanesulfonic acid (PFDS)	<4.6		4.6	ug/Kg	✱	06/11/21 19:04	06/14/21 23:55	1
Perfluorodecanoic acid (PFDA)	<4.6		4.6	ug/Kg	✱	06/11/21 19:04	06/14/21 23:55	1
Perfluorododecanoic acid (PFDoA)	<4.6		4.6	ug/Kg	✱	06/11/21 19:04	06/14/21 23:55	1
Perfluoroheptanesulfonic Acid (PFHpS)	<4.6		4.6	ug/Kg	✱	06/11/21 19:04	06/14/21 23:55	1
Perfluoroheptanoic acid (PFHpA)	<4.6		4.6	ug/Kg	✱	06/11/21 19:04	06/14/21 23:55	1
Perfluorohexanesulfonic acid (PFHxS)	<4.6		4.6	ug/Kg	✱	06/11/21 19:04	06/14/21 23:55	1
Perfluorohexanoic acid (PFHxA)	<4.6		4.6	ug/Kg	✱	06/11/21 19:04	06/14/21 23:55	1
Perfluorononanesulfonic acid (PFNS)	<4.6		4.6	ug/Kg	✱	06/11/21 19:04	06/14/21 23:55	1
Perfluorononanoic acid (PFNA)	<4.6		4.6	ug/Kg	✱	06/11/21 19:04	06/14/21 23:55	1
Perfluorooctanesulfonamide (FOSA)	<4.6		4.6	ug/Kg	✱	06/11/21 19:04	06/14/21 23:55	1
Perfluorooctanesulfonic acid (PFOS)	<11		11	ug/Kg	✱	06/11/21 19:04	06/14/21 23:55	1
Perfluorooctanoic acid (PFOA)	<4.6		4.6	ug/Kg	✱	06/11/21 19:04	06/14/21 23:55	1
Perfluoropentanesulfonic acid (PFPeS)	<4.6		4.6	ug/Kg	✱	06/11/21 19:04	06/14/21 23:55	1
Perfluoropentanoic acid (PFPeA)	<4.6		4.6	ug/Kg	✱	06/11/21 19:04	06/14/21 23:55	1
Perfluorotetradecanoic acid (PFTeA)	<4.6		4.6	ug/Kg	✱	06/11/21 19:04	06/14/21 23:55	1
Perfluorotridecanoic acid (PFTriA)	<4.6		4.6	ug/Kg	✱	06/11/21 19:04	06/14/21 23:55	1
Perfluoroundecanoic acid (PFUnA)	<4.6		4.6	ug/Kg	✱	06/11/21 19:04	06/14/21 23:55	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 FOSA	85		25 - 150	06/11/21 19:04	06/14/21 23:55	1
13C3 HFPO-DA	93		25 - 150	06/11/21 19:04	06/14/21 23:55	1
13C4 PFBA	24	*5-	25 - 150	06/11/21 19:04	06/14/21 23:55	1
13C3 PFBS	109		25 - 150	06/11/21 19:04	06/14/21 23:55	1
13C2 PFDA	87		25 - 150	06/11/21 19:04	06/14/21 23:55	1
13C2 PFDoA	29		25 - 150	06/11/21 19:04	06/14/21 23:55	1
13C4 PFHpA	96		25 - 150	06/11/21 19:04	06/14/21 23:55	1
13C2 PFHxA	100		25 - 150	06/11/21 19:04	06/14/21 23:55	1
13C5 PFNA	92		25 - 150	06/11/21 19:04	06/14/21 23:55	1
13C4 PFOA	94		25 - 150	06/11/21 19:04	06/14/21 23:55	1
13C4 PFOS	86		25 - 150	06/11/21 19:04	06/14/21 23:55	1
13C5 PFPeA	88		25 - 150	06/11/21 19:04	06/14/21 23:55	1
13C2 PFTeA	30		25 - 150	06/11/21 19:04	06/14/21 23:55	1
13C2 PFUnA	62		25 - 150	06/11/21 19:04	06/14/21 23:55	1
d5-NEtFOSAA	33		25 - 150	06/11/21 19:04	06/14/21 23:55	1
d3-NMeFOSAA	58		25 - 150	06/11/21 19:04	06/14/21 23:55	1

Eurofins TestAmerica, Michigan

Client Sample Results

Client: Village of Romeo
Project/Site: Village of Romeo-PFAS - BIOSOLIDS

Job ID: 190-26098-1

Client Sample ID: PFAS

Date Collected: 06/02/21 08:00

Date Received: 06/03/21 15:24

Lab Sample ID: 190-26098-1

Matrix: Solid

Percent Solids: 4.3

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
M2-4:2 FTS	146		25 - 150	06/11/21 19:04	06/14/21 23:55	1
M2-6:2 FTS	124		25 - 150	06/11/21 19:04	06/14/21 23:55	1
M2-8:2 FTS	140		25 - 150	06/11/21 19:04	06/14/21 23:55	1
18O2 PFHxS	97		25 - 150	06/11/21 19:04	06/14/21 23:55	1

General Chemistry

<i>Analyte</i>	<i>Result</i>	<i>Qualifier</i>	<i>RL</i>	<i>Unit</i>	<i>D</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Percent Moisture	95.7		0.1	%			06/07/21 11:08	1
Percent Solids	4.3		0.1	%			06/07/21 11:08	1

QC Sample Results

Client: Village of Romeo
Project/Site: Village of Romeo-PFAS - BIOSOLIDS

Job ID: 190-26098-1

Method: 537 (modified) - Fluorinated Alkyl Substances

Lab Sample ID: MB 320-497937/1-A

Matrix: Solid

Analysis Batch: 497987

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 497937

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.20		0.20	ug/Kg		06/11/21 19:04	06/13/21 09:33	1
F-53B Major	<0.20		0.20	ug/Kg		06/11/21 19:04	06/13/21 09:33	1
F-53B Minor	<0.20		0.20	ug/Kg		06/11/21 19:04	06/13/21 09:33	1
4:2 FTS	<2.0		2.0	ug/Kg		06/11/21 19:04	06/13/21 09:33	1
6:2 FTS	<2.0		2.0	ug/Kg		06/11/21 19:04	06/13/21 09:33	1
8:2 FTS	<2.0		2.0	ug/Kg		06/11/21 19:04	06/13/21 09:33	1
HFPO-DA (GenX)	<0.25		0.25	ug/Kg		06/11/21 19:04	06/13/21 09:33	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		2.0	ug/Kg		06/11/21 19:04	06/13/21 09:33	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		2.0	ug/Kg		06/11/21 19:04	06/13/21 09:33	1
Perfluorobutanesulfonic acid (PFBS)	<0.20		0.20	ug/Kg		06/11/21 19:04	06/13/21 09:33	1
Perfluorobutanoic acid (PFBA)	<0.20		0.20	ug/Kg		06/11/21 19:04	06/13/21 09:33	1
Perfluorodecanesulfonic acid (PFDS)	<0.20		0.20	ug/Kg		06/11/21 19:04	06/13/21 09:33	1
Perfluorodecanoic acid (PFDA)	<0.20		0.20	ug/Kg		06/11/21 19:04	06/13/21 09:33	1
Perfluorododecanoic acid (PFDoA)	<0.20		0.20	ug/Kg		06/11/21 19:04	06/13/21 09:33	1
Perfluoroheptanesulfonic Acid (PFHpS)	<0.20		0.20	ug/Kg		06/11/21 19:04	06/13/21 09:33	1
Perfluoroheptanoic acid (PFHpA)	<0.20		0.20	ug/Kg		06/11/21 19:04	06/13/21 09:33	1
Perfluorohexanesulfonic acid (PFHxS)	<0.20		0.20	ug/Kg		06/11/21 19:04	06/13/21 09:33	1
Perfluorohexanoic acid (PFHxA)	<0.20		0.20	ug/Kg		06/11/21 19:04	06/13/21 09:33	1
Perfluorononanesulfonic acid (PFNS)	<0.20		0.20	ug/Kg		06/11/21 19:04	06/13/21 09:33	1
Perfluorononanoic acid (PFNA)	<0.20		0.20	ug/Kg		06/11/21 19:04	06/13/21 09:33	1
Perfluorooctanesulfonamide (FOSA)	<0.20		0.20	ug/Kg		06/11/21 19:04	06/13/21 09:33	1
Perfluorooctanesulfonic acid (PFOS)	<0.50		0.50	ug/Kg		06/11/21 19:04	06/13/21 09:33	1
Perfluorooctanoic acid (PFOA)	<0.20		0.20	ug/Kg		06/11/21 19:04	06/13/21 09:33	1
Perfluoropentanesulfonic acid (PFPeS)	<0.20		0.20	ug/Kg		06/11/21 19:04	06/13/21 09:33	1
Perfluoropentanoic acid (PFPeA)	<0.20		0.20	ug/Kg		06/11/21 19:04	06/13/21 09:33	1
Perfluorotetradecanoic acid (PFTeA)	<0.20		0.20	ug/Kg		06/11/21 19:04	06/13/21 09:33	1
Perfluorotridecanoic acid (PFTriA)	<0.20		0.20	ug/Kg		06/11/21 19:04	06/13/21 09:33	1
Perfluoroundecanoic acid (PFUnA)	<0.20		0.20	ug/Kg		06/11/21 19:04	06/13/21 09:33	1

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 FOSA	91		25 - 150	06/11/21 19:04	06/13/21 09:33	1
13C3 HFPO-DA	81		25 - 150	06/11/21 19:04	06/13/21 09:33	1
13C4 PFBA	80		25 - 150	06/11/21 19:04	06/13/21 09:33	1
13C3 PFBS	96		25 - 150	06/11/21 19:04	06/13/21 09:33	1
13C2 PFDA	77		25 - 150	06/11/21 19:04	06/13/21 09:33	1
13C2 PFDoA	91		25 - 150	06/11/21 19:04	06/13/21 09:33	1
13C4 PFHpA	87		25 - 150	06/11/21 19:04	06/13/21 09:33	1
13C2 PFHxA	86		25 - 150	06/11/21 19:04	06/13/21 09:33	1
13C5 PFNA	88		25 - 150	06/11/21 19:04	06/13/21 09:33	1
13C4 PFOA	87		25 - 150	06/11/21 19:04	06/13/21 09:33	1
13C4 PFOS	75		25 - 150	06/11/21 19:04	06/13/21 09:33	1
13C5 PFPeA	84		25 - 150	06/11/21 19:04	06/13/21 09:33	1
13C2 PFTeA	80		25 - 150	06/11/21 19:04	06/13/21 09:33	1
13C2 PFUnA	85		25 - 150	06/11/21 19:04	06/13/21 09:33	1
d5-NEtFOSAA	96		25 - 150	06/11/21 19:04	06/13/21 09:33	1

Eurofins TestAmerica, Michigan

QC Sample Results

Client: Village of Romeo
Project/Site: Village of Romeo-PFAS - BIOSOLIDS

Job ID: 190-26098-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: MB 320-497937/1-A

Matrix: Solid

Analysis Batch: 497987

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 497937

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
d3-NMeFOSAA	86		25 - 150	06/11/21 19:04	06/13/21 09:33	1
M2-4:2 FTS	87		25 - 150	06/11/21 19:04	06/13/21 09:33	1
M2-6:2 FTS	84		25 - 150	06/11/21 19:04	06/13/21 09:33	1
M2-8:2 FTS	94		25 - 150	06/11/21 19:04	06/13/21 09:33	1
18O2 PFHxS	84		25 - 150	06/11/21 19:04	06/13/21 09:33	1

Lab Sample ID: LCS 320-497937/2-A

Matrix: Solid

Analysis Batch: 497987

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 497937

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.88	2.23		ug/Kg		118	79 - 139
F-53B Major	1.86	2.04		ug/Kg		109	74 - 134
F-53B Minor	1.88	2.13		ug/Kg		113	66 - 136
4:2 FTS	1.87	1.92	J	ug/Kg		103	68 - 143
6:2 FTS	1.90	1.92	J	ug/Kg		101	73 - 139
8:2 FTS	1.92	1.83	J	ug/Kg		95	75 - 135
HFPO-DA (GenX)	2.00	2.16		ug/Kg		108	53 - 158
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.00	2.03		ug/Kg		101	72 - 132
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.00	1.96	J	ug/Kg		98	72 - 132
Perfluorobutanesulfonic acid (PFBS)	1.77	1.56		ug/Kg		88	69 - 129
Perfluorobutanoic acid (PFBA)	2.00	2.10		ug/Kg		105	76 - 136
Perfluorodecanesulfonic acid (PFDS)	1.93	2.05		ug/Kg		107	71 - 131
Perfluorodecanoic acid (PFDA)	2.00	1.83		ug/Kg		91	72 - 132
Perfluorododecanoic acid (PFDoA)	2.00	2.22		ug/Kg		111	71 - 131
Perfluoroheptanesulfonic Acid (PFHpS)	1.90	2.24		ug/Kg		117	76 - 136
Perfluoroheptanoic acid (PFHpA)	2.00	2.14		ug/Kg		107	71 - 131
Perfluorohexanesulfonic acid (PFHxS)	1.82	1.66		ug/Kg		91	62 - 122
Perfluorohexanoic acid (PFHxA)	2.00	1.93		ug/Kg		96	71 - 131
Perfluorononanesulfonic acid (PFNS)	1.92	2.22		ug/Kg		116	72 - 132
Perfluorononanoic acid (PFNA)	2.00	2.17		ug/Kg		108	73 - 133
Perfluorooctanesulfonamide (FOSA)	2.00	2.00		ug/Kg		100	77 - 137
Perfluorooctanesulfonic acid (PFOS)	1.86	2.14		ug/Kg		115	68 - 141
Perfluorooctanoic acid (PFOA)	2.00	2.11		ug/Kg		106	72 - 132
Perfluoropentanesulfonic acid (PFPeS)	1.88	1.64		ug/Kg		87	66 - 126
Perfluoropentanoic acid (PFPeA)	2.00	1.98		ug/Kg		99	69 - 129
Perfluorotetradecanoic acid (PFTeA)	2.00	2.20		ug/Kg		110	67 - 127
Perfluorotridecanoic acid (PFTriA)	2.00	2.18		ug/Kg		109	71 - 131

Eurofins TestAmerica, Michigan

QC Sample Results

Client: Village of Romeo
Project/Site: Village of Romeo-PFAS - BIOSOLIDS

Job ID: 190-26098-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LCS 320-497937/2-A

Matrix: Solid

Analysis Batch: 497987

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 497937

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluoroundecanoic acid (PFUnA)	2.00	1.67		ug/Kg		83	66 - 126
<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				
13C8 FOSA	90		25 - 150				
13C3 HFPO-DA	86		25 - 150				
13C4 PFBA	81		25 - 150				
13C3 PFBS	98		25 - 150				
13C2 PFDA	83		25 - 150				
13C2 PFDaA	79		25 - 150				
13C4 PFHpA	90		25 - 150				
13C2 PFHxA	91		25 - 150				
13C5 PFNA	88		25 - 150				
13C4 PFOA	87		25 - 150				
13C4 PFOS	75		25 - 150				
13C5 PFPeA	87		25 - 150				
13C2 PFTeDA	76		25 - 150				
13C2 PFUnA	93		25 - 150				
d5-NEtFOSAA	91		25 - 150				
d3-NMeFOSAA	87		25 - 150				
M2-4:2 FTS	91		25 - 150				
M2-6:2 FTS	89		25 - 150				
M2-8:2 FTS	94		25 - 150				
18O2 PFHxS	88		25 - 150				

Definitions/Glossary

Client: Village of Romeo
Project/Site: Village of Romeo-PFAS - BIOSOLIDS

Job ID: 190-26098-1

Qualifiers

LCMS

Qualifier	Qualifier Description
*5-	Isotope dilution analyte is outside acceptance limits, low biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

[illegible]

Eurofins

Environmental Testing
TestAmerica☐ SDS or Known Hazard Information Supplied by Client☐ DiscrepanciesClient ID: Village of Romeo☐ Short HoldWork Order #: 190-26098

Cooler / Sample Receipt

☐ Rush ☐ 24 Hr ☐ 2-Day ☐ 3-Day ☐ 5-Day ☐ Other: _____

After-hours receipt: complete gray

Receipt Evaluation Performed by: Initials: TEH Date: 6/3/21 Time: 1524

areas. Place cooler in walk-in, place

form in Receiving box. Date: _____ Time: _____

Method of Shipment:

☒ Walk-In ClientEurofins TA Field CourierOther Client / 3rd Party Courier: _____

Fed Ex Tracking #: _____

UPS Tracking #: _____

Other: _____

Shipping Container Type:

☒ Cooler ☐ Box☐ None ☐ Other: _____

Packing Materials:

☒ Plastic Bags ☐ Foam☐ Bubble Wrap ☐ Paper☐ Packing Peanuts ☐ None☐ Other: _____

Custody Seals Intact:

☐ Yes ☐ No☒ NA (not used or required)

Cooling Materials:

☒ Ice (Solid) ☐ Ice (Melted)☐ Blue Ice ☐ None☐ Other: _____

Bacteriological	Temp Corrected (°C)	Frozen?	Rec'd Within 2 Hrs?	Sample Flagged?
Samples		Yes No	Yes No	Yes No

Received on same day sampled? Yes NoAdditional Sheets Required? Yes No

Receipt Temperatures

Thermometer ID	Observed (°C)	Corrected (°C)	Temp Blank	Sample Temp	Acceptable	Cooler ID	Affected Samples
CP313207	3.0	3.0			<u>Y</u> <u>N</u>		
					<u>Y</u> <u>N</u>		
					<u>Y</u> <u>N</u>		

Receipt Questions**	Y	N	NA	"No" answers require additional comment
CoC present and ETA receipt signature, date, and time properly documented?				
Containers and Labels in good condition? (unbroken, not leaking, appropriately filled, labels legible & attached)	<u>✓</u>			
Appropriate containers used and adequate volume provided?	<u>✓</u>			Preserved bottles checked for pH? * Yes No
Number of sample containers match CoC?	<u>✓</u>			pH strip lot # _____
Samples received within hold?	<u>✓</u>			
Samples submitted for GRO and Volatiles analysis (8260, 624, 524) received without headspace?			<u>✓</u>	
Was a Trip Blank received with VOA samples?			<u>✓</u>	
Were the samples free of any questionable physical conformities? (i.e.: field duplicates or multiple bottles of the same sample do not significantly vary in appearance - color, solid proportions, etc.)	<u>✓</u>			
Were the CoC bottle labels and all other items free of all other discrepancies or issues that would need to be addressed with the Project Manager and/or Client?	<u>✓</u>			
**May not be applicable if samples are not for compliance testing				*Excludes FOG, VOAs, TOC Vials, HEM

Client Contact Record

Contact Via: ☐ Phone ☐ Email ☐ Other: _____ Person Contacted: _____ Date/Time: _____☐ Discrepancy allowance agreement is on record in the client project file

Discussion / Resolution

Any additional documentation and clarification from the client must be noted in the narrative and/or scanned into the CoC directory.

Reviewed by L. Hall Date: 6/3/21

WI-MI-010_020720



Chain of Custody Record

Eurofins TestAmerica, Michigan

10448 Citation Drive Suite 200

Brighton, MI 48116

Phone: 810-229-2763 Fax: 810-229-0000

[illegible]

Isotope Dilution Summary

Client: Village of Romeo
Project/Site: Village of Romeo-PFAS - BIOSOLIDS

Job ID: 190-26098-1

Method: 537 (modified) - Fluorinated Alkyl Substances

Matrix: Solid

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	PFOSA (25-150)	HFPODA (25-150)	PFBA (25-150)	C3PFBS (25-150)	PFDA (25-150)	PFDoA (25-150)	C4PFHA (25-150)	PFHxA (25-150)
190-26098-1	PFAS	85	93	24 *5-	109	87	29	96	100
LCS 320-497937/2-A	Lab Control Sample	90	86	81	98	83	79	90	91
MB 320-497937/1-A	Method Blank	91	81	80	96	77	91	87	86

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	PFNA (25-150)	PFOA (25-150)	PFOS (25-150)	PFPeA (25-150)	PFTDA (25-150)	PFUnA (25-150)	d5NEFOS (25-150)	d3NMFOS (25-150)
190-26098-1	PFAS	92	94	86	88	30	62	33	58
LCS 320-497937/2-A	Lab Control Sample	88	87	75	87	76	93	91	87
MB 320-497937/1-A	Method Blank	88	87	75	84	80	85	96	86

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	M242FTS (25-150)	M262FTS (25-150)	M282FTS (25-150)	PFHxS (25-150)				
190-26098-1	PFAS	146	124	140	97				
LCS 320-497937/2-A	Lab Control Sample	91	89	94	88				
MB 320-497937/1-A	Method Blank	87	84	94	84				

Surrogate Legend

PFOSA = 13C8 FOSA
HFPODA = 13C3 HFPO-DA
PFBA = 13C4 PFBA
C3PFBS = 13C3 PFBS
PFDA = 13C2 PFDA
PFDoA = 13C2 PFDoA
C4PFHA = 13C4 PFHpA
PFHxA = 13C2 PFHxA
PFNA = 13C5 PFNA
PFOA = 13C4 PFOA
PFOS = 13C4 PFOS
PFPeA = 13C5 PFPeA
PFTDA = 13C2 PFTeDA
PFUnA = 13C2 PFUnA
d5NEFOS = d5-NEtFOSAA
d3NMFOS = d3-NMeFOSAA
M242FTS = M2-4:2 FTS
M262FTS = M2-6:2 FTS
M282FTS = M2-8:2 FTS
PFHxS = 18O2 PFHxS