

Environment Testing America

ANALYTICAL REPORT

Eurofins TestAmerica, Michigan 10448 Citation Drive Suite 200 Brighton, MI 48116

Tel: (810)229-2763

Laboratory Job ID: 190-27009-1

Client Project/Site: IAI- MENOMINEE WWTP

For:

Infrastructure Alternatives, Inc. 7888 Childsale Ave Rockford, Michigan 49341

Attn: Mike Thorsen

Authorized for release by: 10/13/2021 8:03:35 AM

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

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

Client: Infrastructure Alternatives, Inc Project/Site: IAI- MENOMINEE WWTP Laboratory Job ID: 190-27009-1

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Sample Summary

Client: Infrastructure Alternatives, Inc Project/Site: IAI- MENOMINEE WWTP

Job ID: 190-27009-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
190-27009-1	biosolids (2 bottles)	Solid	09/30/21 09:45	10/04/21 12:23

Case Narrative

Client: Infrastructure Alternatives, Inc Project/Site: IAI- MENOMINEE WWTP Job ID: 190-27009-1

Job ID: 190-27009-1

Laboratory: Eurofins TestAmerica, Michigan

Narrative

Job Narrative 190-27009-1

Comments

No additional comments.

Receipt

The sample was received on 10/4/2021 @ 12:23 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 4.6° C.

Receipt Exceptions

The following sample had discoloration at receipt: (190-27009-1)

LCMS

Method 537 (modified): The "I" qualifier means the transition mass ratio for the indicated analyte was outside of the established ratio limits. The qualitative identification of the analyte has some degree of uncertainty, and the reported value may have some high bias. However, analyst judgment was used to positively identify the analyte. (190-27009-A-1-C MS) and (190-27009-A-1-D MSD)

Method 537 (modified): Isotope Dilution Analyte (IDA) recovery is above the method recommended limit for the following samples: biosolids (2 bottles) (190-27009-1), (190-27009-A-1-C MS) and (190-27009-A-1-D MSD). Quantitation by isotope dilution generally precludes any adverse effect on data quality due to elevated IDA recoveries.

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

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

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Client Sample Results

Client: Infrastructure Alternatives, Inc Project/Site: IAI- MENOMINEE WWTP

Client Sample ID: biosolids (2 bottles)

Lab Sample ID: 190-27009-1

Date Collected: 09/30/21 09:45

Date Received: 10/04/21 12:23

Matrix: Solid
Percent Solids: 4.2

Method: 537 (modified) - Fluor					_			 _
Analyte		Qualifier	RL	Unit	_ <u>D</u>	Prepared	Analyzed	Dil Fa
erfluorobutanoic acid (PFBA)	<4.6		4.6	ug/Kg	‡	10/08/21 04:45		
erfluoropentanoic acid (PFPeA)	<4.6		4.6	ug/Kg	₩		10/10/21 07:33	
erfluorohexanoic acid (PFHxA)	7.9		4.6	ug/Kg		10/08/21 04:45		
Perfluoroheptanoic acid (PFHpA)	<4.6		4.6	ug/Kg	₩		10/10/21 07:33	
Perfluorooctanoic acid (PFOA)	<4.6		4.6	ug/Kg	☆		10/10/21 07:33	
Perfluorononanoic acid (PFNA)	<4.6		4.6	ug/Kg			10/10/21 07:33	
Perfluorodecanoic acid (PFDA)	<4.6		4.6	ug/Kg	☆		10/10/21 07:33	
Perfluoroundecanoic acid (PFUnA)	<4.6		4.6	ug/Kg	☆		10/10/21 07:33	
Perfluorododecanoic acid (PFDoA)	<4.6		4.6	ug/Kg	.		10/10/21 07:33	
erfluorotridecanoic acid (PFTrDA)	<4.6		4.6	ug/Kg	₩	10/08/21 04:45	10/10/21 07:33	
Perfluorotetradecanoic acid (PFTeA)	<4.6		4.6	ug/Kg	≎	10/08/21 04:45	10/10/21 07:33	
Perfluorobutanesulfonic acid (PFBS)	<4.6		4.6	ug/Kg	₩	10/08/21 04:45	10/10/21 07:33	
Perfluoropentanesulfonic acid PFPeS)	<4.6		4.6	ug/Kg	₩	10/08/21 04:45	10/10/21 07:33	
Perfluorohexanesulfonic acid (PFHxS)	<4.6		4.6	ug/Kg	≎	10/08/21 04:45	10/10/21 07:33	
Perfluoroheptanesulfonic Acid PFHpS)	<4.6		4.6	ug/Kg	₩	10/08/21 04:45	10/10/21 07:33	
Perfluorooctanesulfonic acid PFOS)	19		4.6	ug/Kg	₩	10/08/21 04:45	10/10/21 07:33	
Perfluorononanesulfonic acid (PFNS)	<4.6		4.6	ug/Kg	≎	10/08/21 04:45	10/10/21 07:33	
erfluorodecanesulfonic acid (PFDS)	<4.6		4.6	ug/Kg	≎	10/08/21 04:45	10/10/21 07:33	
erfluorooctanesulfonamide (FOSA)	<4.6		4.6	ug/Kg	₩	10/08/21 04:45	10/10/21 07:33	
IMeFOSAA	21		4.6	ug/Kg	≎	10/08/21 04:45	10/10/21 07:33	
EtFOSAA	11		4.6	ug/Kg	≎	10/08/21 04:45	10/10/21 07:33	
:2 FTS	<4.6		4.6	ug/Kg	₩	10/08/21 04:45	10/10/21 07:33	
:2 FTS	<4.6		4.6	ug/Kg	₩	10/08/21 04:45	10/10/21 07:33	
2 FTS	<4.6		4.6	ug/Kg	☆	10/08/21 04:45	10/10/21 07:33	
,8-Dioxa-3H-perfluorononanoic acid ADONA)	<4.6		4.6	ug/Kg	₩	10/08/21 04:45	10/10/21 07:33	
IFPO-DA (GenX)	<4.6		4.6	ug/Kg	☆	10/08/21 04:45	10/10/21 07:33	
CI-PF3ONS	<4.6		4.6	ug/Kg	≎	10/08/21 04:45	10/10/21 07:33	
1CI-PF3OUdS	<4.6		4.6	ug/Kg		10/08/21 04:45	10/10/21 07:33	
sotope Dilution		Qualifier	Limits	3. 3		Prepared	Analyzed	Dil Fa
3C4 PFBA	90	Qualifier	25 - 150				10/10/21 07:33	
			25 - 150 25 - 150					
3C5 PFPeA 3C2 PFHxA	101						10/10/21 07:33 10/10/21 07:33	
	102		25 - 150					
3C4 PFHpA	111		25 - 150				10/10/21 07:33	
3C4 PFOA	110		25 - 150				10/10/21 07:33	
3C5 PFNA	109		25 - 150				10/10/21 07:33	
3C2 PFDA	112		25 - 150				10/10/21 07:33	
3C2 PFUnA	95		25 - 150				10/10/21 07:33	
3C2 PFDoA	64		25 - 150			10/08/21 04:45	10/10/21 07:33	
3C2 PFTeDA	55		25 - 150			10/08/21 04:45	10/10/21 07:33	
3C3 PFBS	106		25 - 150				10/10/21 07:33	
8O2 PFHxS	109		25 - 150				10/10/21 07:33	
3C4 PFOS	98		25 - 150			10/08/21 04:45	10/10/21 07:33	
3C8 FOSA	106		25 - 150			10/08/21 04:45	10/10/21 07:33	
I3-NMeFOSAA	90		25 - 150			10/08/21 04:45	10/10/21 07:33	
5-NEtFOSAA	77		25 - 150			10/08/21 04:45	10/10/21 07:33	
12-6:2 FTS	160	*5+	25 - 150			10/08/21 04:45	10/10/21 07:33	

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Job ID: 190-27009-1

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Client Sample Results

Client: Infrastructure Alternatives, Inc Job ID: 190-27009-1 Project/Site: IAI- MENOMINEE WWTP

Client Sample ID: biosolids (2 bottles)

Lab Sample ID: 190-27009-1

Matrix: Solid Percent Solids: 4.2

Date Collected: 09/30/21 09:45 Date Received: 10/04/21 12:23

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-8:2 FTS	163	*5+	25 - 150	10/08/21 04:45	10/10/21 07:33	1
M2-4:2 FTS	142		25 - 150	10/08/21 04:45	10/10/21 07:33	1
13C3 HFPO-DA	101		25 - 150	10/08/21 04:45	10/10/21 07:33	1

_								
General Chemistry								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	95.8		0.1	%			10/08/21 12:49	1
Percent Solids	4.2		0.1	%			10/08/21 12:49	1

QC Sample Results

Client: Infrastructure Alternatives, Inc
Project/Site: IAI- MENOMINEE WWTP

Job ID: 190-27009-1

Method: 537 (modified) - Fluorinated Alkyl Substances

Lab Sample ID: MB 320-532105/1-A
Matrix: Solid
Analysis Batch: 532798

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 532105

Matrix: Solid							Prep Type: 10	
Analysis Batch: 532798	MB	МВ					Prep Batch:	532105
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<0.20		0.20	ug/Kg		10/08/21 04:45	10/10/21 03:54	1
Perfluoropentanoic acid (PFPeA)	<0.20		0.20	ug/Kg		10/08/21 04:45	10/10/21 03:54	1
Perfluorohexanoic acid (PFHxA)	<0.20		0.20	ug/Kg		10/08/21 04:45	10/10/21 03:54	1
Perfluoroheptanoic acid (PFHpA)	<0.20		0.20	ug/Kg		10/08/21 04:45	10/10/21 03:54	1
Perfluorooctanoic acid (PFOA)	<0.20		0.20	ug/Kg		10/08/21 04:45	10/10/21 03:54	1
Perfluorononanoic acid (PFNA)	<0.20		0.20	ug/Kg		10/08/21 04:45	10/10/21 03:54	1
Perfluorodecanoic acid (PFDA)	<0.20		0.20	ug/Kg		10/08/21 04:45	10/10/21 03:54	1
Perfluoroundecanoic acid (PFUnA)	<0.20		0.20	ug/Kg		10/08/21 04:45	10/10/21 03:54	1
Perfluorododecanoic acid (PFDoA)	<0.20		0.20	ug/Kg		10/08/21 04:45	10/10/21 03:54	1
Perfluorotridecanoic acid (PFTrDA)	<0.20		0.20	ug/Kg		10/08/21 04:45	10/10/21 03:54	1
Perfluorotetradecanoic acid (PFTeA)	<0.20		0.20	ug/Kg		10/08/21 04:45	10/10/21 03:54	1
Perfluorobutanesulfonic acid (PFBS)	<0.20		0.20	ug/Kg		10/08/21 04:45	10/10/21 03:54	1
Perfluoropentanesulfonic acid (PFPeS)	<0.20		0.20	ug/Kg		10/08/21 04:45	10/10/21 03:54	1
Perfluorohexanesulfonic acid (PFHxS)	<0.20		0.20	ug/Kg		10/08/21 04:45	10/10/21 03:54	1
Perfluoroheptanesulfonic Acid (PFHpS)	<0.20		0.20	ug/Kg		10/08/21 04:45	10/10/21 03:54	1
Perfluorooctanesulfonic acid (PFOS)	<0.20		0.20	ug/Kg		10/08/21 04:45	10/10/21 03:54	1
Perfluorononanesulfonic acid (PFNS)	<0.20		0.20	ug/Kg		10/08/21 04:45	10/10/21 03:54	1
Perfluorodecanesulfonic acid (PFDS)	<0.20		0.20	ug/Kg		10/08/21 04:45	10/10/21 03:54	1
Perfluorooctanesulfonamide (FOSA)	<0.20		0.20	ug/Kg		10/08/21 04:45	10/10/21 03:54	1
NMeFOSAA	<0.20		0.20	ug/Kg		10/08/21 04:45	10/10/21 03:54	1
NEtFOSAA	<0.20		0.20	ug/Kg		10/08/21 04:45	10/10/21 03:54	1
4:2 FTS	<0.20		0.20	ug/Kg		10/08/21 04:45	10/10/21 03:54	1
6:2 FTS	<0.20		0.20	ug/Kg		10/08/21 04:45	10/10/21 03:54	1
8:2 FTS	<0.20		0.20	ug/Kg		10/08/21 04:45	10/10/21 03:54	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.20		0.20	ug/Kg		10/08/21 04:45	10/10/21 03:54	1
HFPO-DA (GenX)	<0.20		0.20	ug/Kg		10/08/21 04:45	10/10/21 03:54	1
9CI-PF3ONS	<0.20		0.20	ug/Kg		10/08/21 04:45	10/10/21 03:54	1
11CI-PF3OUdS	<0.20		0.20	ug/Kg		10/08/21 04:45	10/10/21 03:54	1
	MB	MB						
Isotope Dilution	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C4 PFBA	83		25 - 150			10/08/21 04:45	10/10/21 03:54	1
13C5 PFPeA	93		25 - 150			10/08/21 04:45	10/10/21 03:54	1
13C2 PFHxA	91		25 - 150			10/08/21 04:45	10/10/21 03:54	1
13C4 PFHpA	96		25 - 150			10/08/21 04:45	10/10/21 03:54	1
13C4 PFOA	97		25 - 150			10/08/21 04:45	10/10/21 03:54	1
13C5 PFNA	95		25 - 150			10/08/21 04:45	10/10/21 03:54	1
13C2 PFDA	98		25 - 150			10/08/21 04:45	10/10/21 03:54	1
13C2 PFUnA	97		25 - 150			10/08/21 04:45	10/10/21 03:54	1
13C2 PFDoA	94		25 - 150			10/08/21 04:45	10/10/21 03:54	1
13C2 PFTeDA	87		25 - 150			10/08/21 04:45	10/10/21 03:54	1
13C3 PFBS	95		25 - 150			10/08/21 04:45	10/10/21 03:54	1
1802 PFHxS	97		25 - 150			10/08/21 04:45	10/10/21 03:54	1
13C4 PFOS	84		25 - 150			10/08/21 04:45	10/10/21 03:54	1
13C8 FOSA	96		25 - 150				10/10/21 03:54	1
d3-NMeFOSAA	102		25 - 150				10/10/21 03:54	1
d5-NEtFOSAA	107		25 - 150				10/10/21 03:54	1

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QC Sample Results

Client: Infrastructure Alternatives, Inc Job ID: 190-27009-1 Project/Site: IAI- MENOMINEE WWTP

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

Lab Sample ID: MB 320-532105/1-A

Lab Sample ID: LCS 320-532105/2-A

Matrix: Solid

Analysis Batch: 532798

Perfluoroheptanoic acid (PFHpA)

Perfluorooctanoic acid (PFOA)

Perfluorononanoic acid (PFNA)

Perfluorohexanesulfonic acid

11CI-PF3OUdS

(PFTrDA)

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 532105

	IVIB	IVIB				
Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-6:2 FTS	114		25 - 150	10/08/21 04:45	10/10/21 03:54	1
M2-8:2 FTS	102		25 - 150	10/08/21 04:45	10/10/21 03:54	1
M2-4:2 FTS	120		25 - 150	10/08/21 04:45	10/10/21 03:54	1
13C3 HFPO-DA	98		25 - 150	10/08/21 04:45	10/10/21 03:54	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Matrix: Solid Prep Batch: 532105 Analysis Batch: 532798 Spike LCS LCS %Rec. Analyte Added Result Qualifier D %Rec Limits Unit Perfluorobutanoic acid (PFBA) 2.00 1.97 98 76 - 136 ug/Kg 2.00 Perfluoropentanoic acid (PFPeA) 2.00 ug/Kg 100 69 - 129 Perfluorohexanoic acid (PFHxA) 2.00

1.96 ug/Kg 98 71 - 131 94 71 - 131 1.87 ug/Kg 2.05 ug/Kg 102 72 - 132 2.04 102 73 - 133 ug/Kg 1.85 ug/Kg 93 72 - 132

ug/Kg

ug/Kg

87

95

62 - 122

Perfluorodecanoic acid (PFDA) 2.00 Perfluoroundecanoic acid 2.00 1.69 84 66 - 126 ug/Kg (PFUnA) Perfluorododecanoic acid 2.00 2.04 ug/Kg 102 71 - 131 (PFDoA) Perfluorotridecanoic acid 2.00 1.88 94 71 - 131 ug/Kg

2.00

2.00

2.00

Perfluorotetradecanoic acid 2.00 1.95 ug/Kg 97 67 - 127 (PFTeA) 1.77 1.74 ug/Kg 99 69 - 129 Perfluorobutanesulfonic acid (PFBS) 1.88 1.84 98 66 - 126 Perfluoropentanesulfonic acid ug/Kg (PFPeS)

(PFHxS) Perfluoroheptanesulfonic Acid 1.90 2.02 ug/Kg 106 76 - 136 (PFHpS) 1.86 2.06 68 - 141 Perfluorooctanesulfonic acid ug/Kg 111 (PFOS) 1.92 Perfluorononanesulfonic acid 2.13 ug/Kg 111 72 - 132(PFNS)

1.82

1.58

1.79

ug/Kg 1.93 1.87 97 71 - 131 Perfluorodecanesulfonic acid (PFDS) 77 - 137 Perfluorooctanesulfonamide 2.00 1.93 ug/Kg 96 (FOSA) **NMeFOSAA** 2.00 1.73 ug/Kg 86 72 - 132 **NEtFOSAA** 2.00 87 72 - 132 1.74 ug/Kg 4:2 FTS 1.87 1.77 ug/Kg 95 68 - 143 6:2 FTS 1.90 1.71 ug/Kg 90 73 - 139

8:2 FTS 100 75 - 135 1.92 1.91 ug/Kg 4,8-Dioxa-3H-perfluorononanoic 1.88 2.11 112 79 - 139 ug/Kg acid (ADONA) HFPO-DA (GenX) 2.00 1.81 ug/Kg 91 53 - 158 9CI-PF3ONS 1.86 2.07 ug/Kg 111 74 - 134

1.88

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Client: Infrastructure Alternatives, Inc
Project/Site: IAI- MENOMINEE WWTP

Job ID: 190-27009-1

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

	LCS	LCS	
Isotope Dilution	%Recovery	Qualifier	Limits
13C4 PFBA	84		25 - 150
13C5 PFPeA	92		25 - 150
13C2 PFHxA	91		25 - 150
13C4 PFHpA	95		25 - 150
13C4 PFOA	96		25 - 150
13C5 PFNA	97		25 - 150
13C2 PFDA	99		25 - 150
13C2 PFUnA	98		25 - 150
13C2 PFDoA	94		25 - 150
13C2 PFTeDA	86		25 - 150
13C3 PFBS	91		25 - 150
1802 PFHxS	98		25 - 150
13C4 PFOS	86		25 - 150
13C8 FOSA	95		25 - 150
d3-NMeFOSAA	102		25 - 150
d5-NEtFOSAA	103		25 - 150
M2-6:2 FTS	115		25 - 150
M2-8:2 FTS	97		25 - 150
M2-4:2 FTS	119		25 - 150
13C3 HFPO-DA	99		25 - 150

Lab Sample ID: 190-27009-1 MS

Matrix: Solid

Analysis Batch: 532798

Client Sample ID: biosolids (2 bottles)

Prep Type: Total/NA Prep Batch: 532105

Analysis Batch: 532798	0	0	0						Prep Batch: 532105
Amalista	•	Sample Qualifier	Spike Added	MS	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Analyte	<4.6	Quaimer	169	177	Qualifier				76 - 136
Perfluorobutanoic acid (PFBA)						ug/Kg	‡	105	
Perfluoropentanoic acid (PFPeA)	<4.6		169	167		ug/Kg	≎	99	69 - 129
Perfluorohexanoic acid (PFHxA)	7.9		169	179		ug/Kg	.	100	71 - 131
Perfluoroheptanoic acid (PFHpA)	<4.6		169	160		ug/Kg	₩	95	71 - 131
Perfluorooctanoic acid (PFOA)	<4.6		169	181		ug/Kg	₩	107	72 - 132
Perfluorononanoic acid (PFNA)	<4.6		169	172		ug/Kg	≎	102	73 - 133
Perfluorodecanoic acid (PFDA)	<4.6		169	160		ug/Kg	₽	94	72 - 132
Perfluoroundecanoic acid (PFUnA)	<4.6		169	160		ug/Kg	₽	95	66 - 126
Perfluorododecanoic acid (PFDoA)	<4.6		169	164		ug/Kg	₩	97	71 - 131
Perfluorotridecanoic acid (PFTrDA)	<4.6		169	122		ug/Kg	☼	72	71 - 131
Perfluorotetradecanoic acid (PFTeA)	<4.6		169	168		ug/Kg	☼	99	67 - 127
Perfluorobutanesulfonic acid (PFBS)	<4.6		149	155		ug/Kg	*	104	69 - 129
Perfluoropentanesulfonic acid (PFPeS)	<4.6		159	160		ug/Kg	☼	101	66 - 126
Perfluorohexanesulfonic acid (PFHxS)	<4.6		154	147		ug/Kg	☼	95	62 - 122
Perfluoroheptanesulfonic Acid (PFHpS)	<4.6		161	175		ug/Kg	₩	109	76 - 136
Perfluorooctanesulfonic acid (PFOS)	19		157	188	I	ug/Kg	₽	111	68 - 141
Perfluorononanesulfonic acid (PFNS)	<4.6		162	169		ug/Kg	₽	104	72 - 132
Perfluorodecanesulfonic acid (PFDS)	<4.6		163	162		ug/Kg	☼	99	71 - 131

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Client: Infrastructure Alternatives, Inc Job ID: 190-27009-1 Project/Site: IAI- MENOMINEE WWTP

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

Lab Sample ID: 190-27009-1 MS

Matrix: Solid

Analysis Batch: 532798

Client Sample ID: biosolids (2 bottles) **Prep Type: Total/NA**

Prep Batch: 532105

			_	MS				%Rec.	
Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
<4.6		169	164		ug/Kg	*	97	77 - 137	
21		169	196		ug/Kg	₽	100	72 - 132	
11		169	178		ug/Kg	☼	98	72 - 132	
<4.6		158	158		ug/Kg	☼	100	68 - 143	
<4.6		160	152		ug/Kg	☼	95	73 - 139	
<4.6		162	162		ug/Kg	☼	100	75 - 135	
<4.6		159	178		ug/Kg	₽	112	79 - 139	
<4.6		169	161		ug/Kg	☼	95	53 - 158	
<4.6		158	174		ug/Kg	☼	110	74 - 134	
<4.6		159	144		ug/Kg	₩	90	66 - 136	
	<4.6 21 11 <4.6 <4.6 <4.6 <4.6 <4.6 <4.6 <4.6	21 11 <4.6 <4.6 <4.6 <4.6 <4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6

MS MS

	IVIS	IVIS	
Isotope Dilution	%Recovery	Qualifier	Limits
13C4 PFBA	59		25 - 150
13C5 PFPeA	105		25 - 150
13C2 PFHxA	109		25 - 150
13C4 PFHpA	115		25 - 150
13C4 PFOA	114		25 - 150
13C5 PFNA	116		25 - 150
13C2 PFDA	121		25 - 150
13C2 PFUnA	112		25 - 150
13C2 PFDoA	94		25 - 150
13C2 PFTeDA	79		25 - 150
13C3 PFBS	114		25 - 150
18O2 PFHxS	117		25 - 150
13C4 PFOS	105		25 - 150
13C8 FOSA	116		25 - 150
d3-NMeFOSAA	117		25 - 150
d5-NEtFOSAA	106		25 - 150
M2-6:2 FTS	168	*5+	25 - 150
M2-8:2 FTS	159	*5+	25 - 150
M2-4:2 FTS	167	*5+	25 - 150
13C3 HFPO-DA	111		25 - 150

Lab Sample ID: 190-27009-1 MSD

Analysis Batch: 532798

Matrix: Solid

Client Sample ID: biosolids (2 bottles)

Prep Type: Total/NA Prep Batch: 532105

_	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Perfluorobutanoic acid (PFBA)	<4.6		167	177		ug/Kg	<u></u>	106	76 - 136	0	30
Perfluoropentanoic acid (PFPeA)	<4.6		167	175		ug/Kg	₩	105	69 - 129	4	30
Perfluorohexanoic acid (PFHxA)	7.9		167	174		ug/Kg	₩	99	71 - 131	3	30
Perfluoroheptanoic acid (PFHpA)	<4.6		167	161		ug/Kg	☼	97	71 - 131	1	30
Perfluorooctanoic acid (PFOA)	<4.6		167	177		ug/Kg	₩	106	72 - 132	2	30
Perfluorononanoic acid (PFNA)	<4.6		167	169		ug/Kg	₩	102	73 - 133	1	30
Perfluorodecanoic acid (PFDA)	<4.6		167	158		ug/Kg	₩	95	72 - 132	1	30
Perfluoroundecanoic acid	<4.6		167	159		ug/Kg	₩	95	66 - 126	1	30

Eurofins TestAmerica, Michigan

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QC Sample Results

Client: Infrastructure Alternatives, Inc Job ID: 190-27009-1 Project/Site: IAI- MENOMINEE WWTP

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

Lab Sample ID: 190-27009 Matrix: Solid Analysis Batch: 532798	0-1 MSD					Clie	nt Saı	nple ID	: biosolid Prep Ty Prep Ba	pe: Tot	al/NA
,,	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limi
Perfluorododecanoic acid (PFDoA)	<4.6		167	159		ug/Kg	<u></u>	95	71 - 131	3	30
Perfluorotridecanoic acid	<4.6		167	120		ug/Kg		72	71 - 131	2	30
(PFTrDA) Perfluorotetradecanoic acid	<4.6		167	163		ug/Kg	₽	98	67 - 127	3	30
(PFTeA) Perfluorobutanesulfonic acid	<4.6		147	150		ug/Kg	₩	102	69 - 129	3	30
(PFBS) Perfluoropentanesulfonic acid	<4.6		156	155		ug/Kg	₩	99	66 - 126	4	30
(PFPeS) Perfluorohexanesulfonic acid	<4.6		152	138		ug/Kg	₩	91	62 - 122	7	30
(PFHxS) Perfluoroheptanesulfonic Acid (PFHpS)	<4.6		159	168		ug/Kg	☼	106	76 - 136	4	30
Perfluorooctanesulfonic acid (PFOS)	19		155	190	Ī	ug/Kg		113	68 - 141	1	30
Perfluorononanesulfonic acid (PFNS)	<4.6		160	166		ug/Kg	₽	104	72 - 132	2	30
Perfluorodecanesulfonic acid (PFDS)	<4.6		161	153		ug/Kg	₩	95	71 - 131	5	30
Perfluorooctanesulfonamide (FOSA)	<4.6		167	162		ug/Kg	☼	97	77 - 137	2	30
NMeFOSAA	21		167	190		ug/Kg	☼	98	72 - 132	3	30
NEtFOSAA	11		167	163		ug/Kg	₽	91	72 - 132	9	30
4:2 FTS	<4.6		156	153		ug/Kg		98	68 - 143	3	30
6:2 FTS	<4.6		158	138		ug/Kg	₩	87	73 - 139	10	30
8:2 FTS	<4.6		160	162		ug/Kg	₩	101	75 - 135	0	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<4.6		157	186		ug/Kg		118	79 - 139	4	30
HFPO-DA (GenX)	<4.6		167	157		ug/Kg	₩	94	53 - 158	3	30
9CI-PF3ONS	<4.6		155	171		ug/Kg	₩	110	74 - 134	2	30
11CI-PF3OUdS	<4.6		157	140		ug/Kg		89	66 - 136	3	30
		MSD				0 0					
Isotope Dilution	%Recovery		Limits								
13C4 PFBA	52		25 - 150								
13C5 PFPeA	94		25 - 150								
13C2 PFHxA	101		25 ₋ 150								
13C4 PFHpA	106		25 ₋ 150								
13C4 PFOA	107		25 - 150								
13C5 PFNA	111		25 - 150 25 - 150								
13C2 PFDA	113		25 - 150								
13C2 PFUnA	104		25 - 150 25 - 150								
13C2 PFDoA	88		25 - 150 25 - 150								
13C2 PFTeDA	73		25 - 150 25 - 150								
	73 102		25 - 150 25 - 150								
13C3 PFBS											
1802 PFHxS	106		25 - 150 25 - 150								
13C4 PFOS	94		25 ₋ 150								
13C8 FOSA	106		25 - 150								

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25 - 150

25 - 150

25 - 150

25 - 150

105

104

148

154 *5+

d3-NMeFOSAA

d5-NEtFOSAA

M2-6:2 FTS

M2-8:2 FTS

QC Sample Results

Client: Infrastructure Alternatives, Inc Job ID: 190-27009-1 Project/Site: IAI- MENOMINEE WWTP

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

Lab Sample ID: 190-27009-1 MSD Client Sample ID: biosolids (2 bottles) Prep Type: Total/NA Matrix: Solid **Analysis Batch: 532798**

Prep Batch: 532105

	-	MSD	MSD	
Iso	otope Dilution	%Recovery	Qualifier	Limits
M2	?-4:2 FTS	147		25 - 150
130	C3 HFPO-DA	106		25 - 150

Job ID: 190-27009-1

Client: Infrastructure Alternatives, Inc Project/Site: IAI- MENOMINEE WWTP

Method: 537 (modified) - Fluorinated Alkyl Substances

Matrix: Solid Prep Type: Total/NA

			Perc	ent Isotope	Dilution Re	covery (Ac	ceptance L	.imits)	
		PFBA	PFPeA	PFHxA	C4PFHA	PFOA	PFNA	PFDA	PFUnA
Lab Sample ID	Client Sample ID	(25-150)	(25-150)	(25-150)	(25-150)	(25-150)	(25-150)	(25-150)	(25-150)
190-27009-1	biosolids (2 bottles)	90	101	102	111	110	109	112	95
190-27009-1 MS	biosolids (2 bottles)	59	105	109	115	114	116	121	112
190-27009-1 MSD	biosolids (2 bottles)	52	94	101	106	107	111	113	104
LCS 320-532105/2-A	Lab Control Sample	84	92	91	95	96	97	99	98
MB 320-532105/1-A	Method Blank	83	93	91	96	97	95	98	97
			Perc	ent Isotope	Dilution Re	covery (Ac	ceptance L	.imits)	
		PFDoA	PFTDA	C3PFBS	PFHxS	PFOS	PFOSA	d3NMFOS	d5NEFOS
Lab Sample ID	Client Sample ID	(25-150)	(25-150)	(25-150)	(25-150)	(25-150)	(25-150)	(25-150)	(25-150)
190-27009-1	biosolids (2 bottles)	64	55	106	109	98	106	90	77
190-27009-1 MS	biosolids (2 bottles)	94	79	114	117	105	116	117	106
190-27009-1 MSD	biosolids (2 bottles)	88	73	102	106	94	106	105	104
LCS 320-532105/2-A	Lab Control Sample	94	86	91	98	86	95	102	103
MB 320-532105/1-A	Method Blank	94	87	95	97	84	96	102	107
			Perc	ent Isotope	Dilution Re	covery (Ac	ceptance L	.imits)	
		M262FTS	M282FTS	M242FTS	HFPODA				
Lab Sample ID	Client Sample ID	(25-150)	(25-150)	(25-150)	(25-150)				
190-27009-1	biosolids (2 bottles)	160 *5+	163 *5+	142	101				
190-27009-1 MS	biosolids (2 bottles)	168 *5+	159 *5+	167 *5+	111				
190-27009-1 MSD	biosolids (2 bottles)	154 *5+	148	147	106				
LCS 320-532105/2-A	Lab Control Sample	115	97	119	99				
MB 320-532105/1-A	Method Blank	114	102	120	98				

Surrogate Legend

PFBA = 13C4 PFBA

PFPeA = 13C5 PFPeA

PFHxA = 13C2 PFHxA

C4PFHA = 13C4 PFHpA

PFOA = 13C4 PFOA

PFNA = 13C5 PFNA

PFDA = 13C2 PFDA

PFUnA = 13C2 PFUnA

PFDoA = 13C2 PFDoA

PFTDA = 13C2 PFTeDA

C3PFBS = 13C3 PFBS

PFHxS = 18O2 PFHxS PFOS = 13C4 PFOS

PFOSA = 13C8 FOSA

d3NMFOS = d3-NMeFOSAA

d5NEFOS = d5-NEtFOSAA

M262FTS = M2-6:2 FTS

M282FTS = M2-8:2 FTS

M242FTS = M2-4:2 FTS

HFPODA = 13C3 HFPO-DA

Eurofins TestAmerica, Michigan

Definitions/Glossary

Client: Infrastructure Alternatives, Inc Job ID: 190-27009-1

Project/Site: IAI- MENOMINEE WWTP

Qualifiers

LCMS

Qualifier Qualifier Description

*5+ Isotope dilution analyte is outside acceptance limits, high biased.

Value is EMPC (estimated maximum possible concentration).

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

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

3

Δ

7

8

4.6

11

12

13

14

QC Association Summary

Client: Infrastructure Alternatives, Inc Job ID: 190-27009-1 Project/Site: IAI- MENOMINEE WWTP

LCMS

Prep Batch: 532105

Lab Sample ID 190-27009-1	Client Sample ID biosolids (2 bottles)	Prep Type Total/NA	Matrix Solid	Method SHAKE	Prep Batch
MB 320-532105/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 320-532105/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	
190-27009-1 MS	biosolids (2 bottles)	Total/NA	Solid	SHAKE	
190-27009-1 MSD	biosolids (2 bottles)	Total/NA	Solid	SHAKE	

Analysis Batch: 532798

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
190-27009-1	biosolids (2 bottles)	Total/NA	Solid	537 (modified)	532105
MB 320-532105/1-A	Method Blank	Total/NA	Solid	537 (modified)	532105
LCS 320-532105/2-A	Lab Control Sample	Total/NA	Solid	537 (modified)	532105
190-27009-1 MS	biosolids (2 bottles)	Total/NA	Solid	537 (modified)	532105
190-27009-1 MSD	biosolids (2 bottles)	Total/NA	Solid	537 (modified)	532105

General Chemistry

Analysis Batch: 532237

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
190-27009-1	biosolids (2 bottles)	Total/NA	Solid	D 2216	

Lab Chronicle

Client: Infrastructure Alternatives, Inc Job ID: 190-27009-1

Project/Site: IAI- MENOMINEE WWTP

Client Sample ID: biosolids (2 bottles) Lab Sample ID: 190-27009-1

Date Collected: 09/30/21 09:45 **Matrix: Solid**

Date Received: 10/04/21 12:23

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1	532237	10/08/21 12:49	TCS	TAL SAC

Client Sample ID: biosolids (2 bottles) Lab Sample ID: 190-27009-1

Date Collected: 09/30/21 09:45 **Matrix: Solid** Date Received: 10/04/21 12:23 Percent Solids: 4.2

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	SHAKE			532105	10/08/21 04:45	HK	TAL SAC
Total/NA	Analysis	537 (modified)		1	532798	10/10/21 07:33	K1S	TAL SAC

Laboratory References:

TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Analyst References:

Lab: TAL SAC

Batch Type: Prep

HK = Harmandeep Kaur

Batch Type: Analysis

K1S = Kotechakon Sorndee

TCS = Tammy Saechao

Accreditation/Certification Summary

Client: Infrastructure Alternatives, Inc Job ID: 190-27009-1 Project/Site: IAI- MENOMINEE WWTP

Laboratory: Eurofins TestAmerica, Sacramento

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	17-020	02-20-24
ANAB	Dept. of Defense ELAP	L2468	01-20-24
ANAB	Dept. of Energy	L2468.01	01-20-24
ANAB	ISO/IEC 17025	L2468	01-20-24
Arizona	State	AZ0708	08-11-22
Arkansas DEQ	State	88-0691	06-17-21 *
California	State	2897	01-31-22
Colorado	State	CA0004	08-31-21 *
Florida	NELAP	E87570	06-30-22
Georgia	State	4040	01-29-22
Hawaii	State	<cert no.=""></cert>	01-29-22
Illinois	NELAP	200060	03-18-22
Kansas	NELAP	E-10375	10-31-21
Louisiana	NELAP	01944	06-30-22
Maine	State	CA00004	04-14-22
Michigan	State	9947	01-29-22
Nevada	State	CA00044	08-31-22
New Hampshire	NELAP	2997	04-18-22
New Jersey	NELAP	CA005	06-30-22
New York	NELAP	11666	04-01-22
Ohio	State	41252	01-29-22
Oregon	NELAP	4040	01-30-23
Texas	NELAP	T104704399-19-13	05-31-22
US Fish & Wildlife	US Federal Programs	58448	07-31-22
Utah	NELAP	CA000442021-12	03-01-22
Virginia	NELAP	460278	03-14-22
Washington	State	C581	05-05-22
West Virginia (DW)	State	9930C	12-31-21
Wisconsin	State	998204680	08-31-22
Wyoming	State Program	8TMS-L	01-28-19 *

 $^{^{\}star} \ \text{Accreditation/Certification renewal pending - accreditation/certification considered valid}.$

Method Summary

Client: Infrastructure Alternatives, Inc Project/Site: IAI- MENOMINEE WWTP Job ID: 190-27009-1

Method	Method Description	Protocol	Laboratory
537 (modified)	Fluorinated Alkyl Substances	EPA	TAL SAC
D 2216	Percent Moisture	ASTM	TAL SAC
SHAKE	Shake Extraction with Ultrasonic Bath Extraction	SW846	TAL SAC

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

- 0

7

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11

16

Client: Infrastructure Alternatives, Inc

Job Number: 190-27009-1

Login Number: 27009 List Number: 2

: 27009 List Source: Eurofins TestAmerica, Sacramento

List Creation: 10/07/21 03:46 PM

Creator: Oropeza, Salvador

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	True	
The cooler's custody seal, if present, is intact.	True	1435987
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.2c
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

The Control	Client Contact	Regulatory program:	MQ _	NPDES NPDES	RCRA	Other was tewater permit	rmit	Testament est
According to better According to be a standard of the control	Company Name: Infrastructure Atternatives	Client Project Manager:		Site Contact:		Lab Contact:		Ž
Secretary Company Co	Address: 7888 Childsale Ave.	Mike Thorsen Telephone:		Mike Thorsen Telephone:		Sue Schafer Telephone:	4 400	-
Note that Note	City/State/Zip: Rockford, MI 49341	Email:		Analysis Turnarou	ınd Time	017-077-010	Analyses	-
Protect Name	Phone: 906-630-1016 Project Name:	mthorsen miawater.com		TAT if different from below				Walk-in client
Surply that it is contained by the conta	Project Number:	Method of Shipment/Carrier:		7 2 w.				Lab sampling
Sample bear Sample Described by Sample Then Sample Described by Sa				2 da				
Sumple Based the effection of Sumple Date Sample Date	PO # MEN 301	Shipping/Tracking No:		1 dz				Job/SDG No:
Sample Base (Sample Date Sample Time & 1900 11 11 11 11 11 11 11 11 11 11 11 11 1			Matrix	Containers & Press	es es			
Possible Hazard Mentitation San Integer Sea And	Sample Identification	Sample Time	Aqueous Sediment Solid	ZºYº\ 'NºOH HCI HNO3	Unpres			Sample Specific Notes / Special Instructions:
Pounds Harred Mentification Now-leaved Themselve Company Stand Harred Mentification Now-leaved Themselve Company Stand Harred Mentification Now-leaved Themselve Company Stand Harred Mentification Stand Harred Mentificat	biosolids (2 bottles)					9		report in ug/kg dry Were
Penaltie Hazard Identification Founds: Hazard Identification								
Possible Heard Learning Comments: Non-Heard Finanche Fain Indian Posion B Unknown Seminated by Scart Free at After Comment Sample Deposit A fear to be assessed if number a relative larger than 1 month)								
Possible Haard Identification Non-thrand Second Control of State Invited to the State Invited Control of State Invited to the State In								
Pacitive Hazard Identification The state of								
Possible Hazard Identification Non-Hazard Non-Hazard Non-Hazard Non-Hazard Non-Hazard Non-Hazard See A See A See A Feature of Company: Cost-ocky See A Feature of Company: Com								
Possible Heard Identification Note-Hazard Identification Note-Hazard Sample Beyosal (A fer may be assessed if samples are retained longer than 1 month) Return to Client Special Instructionary Cost-Angle Septembries of Sample Beyosal By Lab Archive For Months And Sec. At Fau Abs Received by Received by Received to Laboratory by: Company: Company: Company: Company: Date Time:								
Possible Hazard Identification Non-Hazard Identified Information Non-Hazard								
Possible Heard Identification Non-Heard Identification Non-Heard Identification Non-Heard Identification Non-Heard Identification Non-Heard Identification Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Return to Client of Disposal By Lab Archive For Months Scarpful By: Company: Company: Company: Company: Company: Company: Company: Company: Date/Time: Company: Company:								
Possible Hazard Identification Non-Hazard							190-27009 Chain of	Custody
Search of Secretary Secretary Company: Cost-ody Secretary Company: Cost-ody Secretary Company: Company:	L	L	Unknown	Sample Disposal (A	r fee may be assesse ent Dispos	d if samples are retained al By Lab Az	l longer than 1 month) chive For Months	
Received by: Company: Co	Special Instructions/QC Requirements & Comments: CUS tooky Sea/ # 1432		: 49 !	cott faucite				
Colf Standard to THACLE. Company: Date Time: Received in Laboratory by: Company: Transformers of Page Management of Page Manag	est tenuble	617	~	Q 5	u Hele.	3	Company:	121 122
Second, repropriete Legoratories, Inc. All rights reserved.	Cold Stange to 1400 Cm				d in Laboratory by		Company:	Date/Time:
	2 2008. Teaching to Lagorabore, Inc., All (gitts resorved, 100-100-100-100-100-100-100-100-100-100			,				

Chain of Custody Record

eurofins Environment Testing TestAmerica	☐ SDS or h☐ Discrepa	ncies		ızard	Information Supplied by Client Client ID: In frastructure Alternatives Work Oder #: 190-27009
Cooler / Sample Receipt			lr 🗀	2-Da	ıy ☐ 3-Day ☐ 5-Day ☐ Other:
After hours receipt: complete gray	Receipt Evalu	uation	n Perl	forme	d by: Initials: 12th Date: 10th Time: 1223
areas. Place cooler in walk-in, place					10/4/21
form in Receiving box. Date: Time:					<i>(9)</i>
Method of Shipment: Walk-In Client Eurofins TA Field/Co Other Client / 3 rd Party Courier: Fed Ex Tracking #: UPS Tracking #: Other:	ourier OX	cooler lone lone lastic ubble ackin other:	g Ma Bag Wra g Pea	Box Other ateria s F p F anuts	Foam
Bacteriological Temp Corrected (°C)	Frozen		F		Within 2 Hrs? Sample Flagged?
Samples	Yes	No		Yes	s No Yes No
Received on same day sampled? Yes Receipt Temperatures Thermometer ID Observed (°C) Corrected (°C CP313267 4.6 4.6 4.6) Temp Blank	Sam	ple T	emp	Acceptable Cooler ID Affected Samples Y _ N
Receipt Questions**		Υ	N	NA	"No" answers require additional comment
CoC present and ETA receipt signature, date, and documented?		V			
Containers and Labels in good condition? (unbrok appropriately filled, labels legible & attached)	en, not leaking,	/			
Appropriate containers used and adequate volume	e provided?	V			Preserved bottles checked for pH?* Yes No
Number of sample containers match CoC?		/			pH strip lot #
Samples received within hold?		1			
Samples submitted for GRO and Volatiles analysis	s (8260, 624,			1	
524) received without headspace?			-		
Was a Trip Blank received with VOA samples? Were the samples free of any questionable physic conformities? (i.e.; field duplicates or multiple bottl sample do not significantly vary in appearance – or proportions, etc.) Were the CoC bottle labels and all other items free	es of the same olor, solid	/			
discrepancies or issues that would need to be add the Project Manager and/or Client?	ressed with				
**May not be applicable if samples are not for com	pliance testing				*Excludes FOG, VOAs, TOC Vials, HEM
Client Contact Record Contact Via: Phone Email Other: Discrepancy allowance agree Discussion / Resolution	Persement is on rec	on Co	ontac i the	ted: _ client	project file
Any additional documentation and clarificatio directory. Reviewed by	n from the clier				

Eurofins TestAmerica, Michigan 10448 Citation Drive Suite 200 Brighton, MI 48116 Phone: 810-229-2763 Fax: 810-229-0000

Chain of Custody Record

eurofins Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Schafe	Lab PM: Schafer, Sue	Camer Tracking No(s):	COC No:
	Phone:	E-Mail:		State of Origin:	Page:
Shipping/Receiving		Sue.S	Sue.Schafer@Eurofinset.com	Michigan	Page 1 of 1
Company: TestAmerica Laboratories, Inc.		4	Accreditations Required (See note):		Job #: 190-27009-1
Address: 880 Riverside Parkway, ,	Due Date Requested: 10/24/2021		Analysis Requested	uested	l go
City. West Sacramento	TAT Requested (days):				
State, Zip: CA, 95605			uepueș		D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3
Phone: 916-373-5600(Tel) 916-372-1059(Fax)	PO#:		No.		F - MeOH R - Na2S203 G - Amchlor S - H2SO4 H - Ascorbio Acid T - TSD Dodocobudents
Email:	WO#:		(oN	su	
Project Name: IAI- MENOMINEE WWTP	Project #: 19001705		10 29	ıənistr	
Site:	SSOW#:		ISD (Y	01 00	Other:
Sample Identification - Client ID (Lab ID)	Sample Date Time G:	Sample (W=water, Type O=wate/oil, G=comp, BT=Tissue, G=grab)	Field Filtered Perform MS/N Molsture PFC_IDA/Shake List (24 Analyte	Total Number	Special Instructions/Note:
	X	ation		×	
biosolids (2 bottles) (190-27009-1)	9/30/21 09:45 Eastern	Solid	×	2	
Note: Since laboratory accreditations are subject to change. Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratory accreditations. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/lests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica aboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica.	America places the ownership of method, analy matrix being analyzed, the samples must be shent to date, return the signed Chain of Custody	te & accreditation compliar ipped back to the Eurofins attesting to said complicar	ce upon out subcontract laboratories. This sa festAmerica laboratory or other instructions wi ice to Eurofins TestAmerica.	nple shipment is forwarded under chain- be provided. Any changes to accredita	of-custody. If the laboratory does not currently ation status should be brought to Eurofins
Possible Hazard Identification			Sample Disposal (A fee may be assessed if samples are retained longer than 1 month	ssessed if samples are retain	ed longer than 1 month)
Unconfirmed			Return To Client	Disposal By Lab	Archive For Months
Deliverable Requested: I, II, III, IV, Other (specify)	Primary Deliverable Rank: 2		Special Instructions/QC Requirements:	nts:	
Empty Kit Relinquished by:	Date:		Time:	Method of Shipment:	
	Date/Time: / 700	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by	Date/Time:	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Custody Seal No.: Custody Seal	5 987		Cooler Temperature(s) °C and Other Remarks:	marks:	
			1: 1: 1:	9	1 2 3 4 5
			3		