

ANALYTICAL REPORT

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Laboratory Job ID: 320-72932-1

Client Project/Site: Walled Lake and Novi WWTP PFAS
Sources

For:

OHM Advisors
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Authorized for release by:
5/11/2021 12:33:51 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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Definitions/Glossary

Client: OHM Advisors
Project/Site: Walled Lake and Novi WWTP PFAS Sources

Job ID: 320-72932-1

Qualifiers

LCMS

Qualifier	Qualifier Description
*5-	Isotope dilution analyte is outside acceptance limits, low biased.
*5+	Isotope dilution analyte is outside acceptance limits, high biased.
H	Sample was prepped or analyzed beyond the specified holding time
I	Value is EMPC (estimated maximum possible concentration).
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

Case Narrative

Client: OHM Advisors
Project/Site: Walled Lake and Novi WWTP PFAS Sources

Job ID: 320-72932-1

Job ID: 320-72932-1

Laboratory: Eurofins TestAmerica, Sacramento

Narrative

Job Narrative 320-72932-1

Comments

PFAS data is included in this report for Job 320-72932-1. TOPS data will be included in the report for Job 320-72932-2.

P3 (320-72932-3)

The sample contained unexpected sediments so per client request, the sample was centrifuged and the water phase was used for analysis.

P4 (320-72932-5) and P5 (320-72932-6)

These 2 samples were submitted in 3 x 1L poly containers. Contents were centrifuged and the liquid phase was analyzed as P4 (320-72932-5) and the solid phase as P5 (320-72932-6).

P6 (320-72932-7) and P7 (320-72932-8)

These 2 samples were submitted in 3 x 1L poly containers. Contents were centrifuged and the liquid phase was analyzed as P6 (320-72932-7) and the solid phase as P7 (320-72932-8).

P8 (320-72932-9)

This sample was centrifuged prior to prep and analysis based on a State of Michigan EGLE document provided by the client. EGLE document states that biosolid samples with high water content should be centrifuged and only the solid phase is to be analyzed.

Receipt

The samples were received on 4/27/2021 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.0° C.

LCMS

Method 537 (modified): Some Isotope Dilution Analyte (IDA) recoveries are below the method recommended limit in the following samples: P1-2 (320-72932-1), P4 (320-72932-5), P6 (320-72932-7) and P8 (320-72932-9). 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(s).

Method 537 (modified): The Isotope Dilution Analyte (IDA) recovery for 13C2 PFTeDA is below the method recommended limit in the following samples: P4 (320-72932-5) and P6 (320-72932-7). The samples were re-extracted (-RE) at a 10X dilution to reduce matrix interference; however, the -RE was performed outside of the holding time. The IDA recovery was within control limits in the -RE. Both sets of data for the affected analyte, PFTeA, have been reported.

Method 537 (modified): Some Isotope Dilution Analyte (IDA) recoveries are above the method recommended limit in the following samples: P1-2 (320-72932-1), P2 (320-72932-2), P3 (320-72932-3), P4 (320-72932-5), P6 (320-72932-7) and P7 (320-72932-8). Quantitation by isotope dilution generally precludes any adverse effect on data quality due to elevated IDA recoveries. The samples were re-extracted outside of holding time at a dilution with concurring results; therefore, the data have been reported.

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. P2 (320-72932-2), P3 (320-72932-3), P5 (320-72932-6), P7 (320-72932-8) and P8 (320-72932-9).

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 3535: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 320-485560.

Case Narrative

Client: OHM Advisors
Project/Site: Walled Lake and Novi WWTP PFAS Sources

Job ID: 320-72932-1

Job ID: 320-72932-1 (Continued)

Laboratory: Eurofins TestAmerica, Sacramento (Continued)

Method 3535: The following samples contain floating particulates in the sample bottle prior to extraction: P1-2 (320-72932-1), P3 (320-72932-3), P4 (320-72932-5) and P6 (320-72932-7).

Method 3535: During the solid phase extraction process, the following sample contained non-settable particulates which clogged the solid phase extraction column: P1-2 (320-72932-1).

Method 3535: The following samples were yellow prior to extraction: P3 (320-72932-3), P4 (320-72932-5) and P6 (320-72932-7).

Method 3535: The following samples were yellow after extraction/final volume: P1-2 (320-72932-1), P3 (320-72932-3), P4 (320-72932-5) and P6 (320-72932-7).

Method 3535: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 320-487507.

Method 3535: The following samples were re-extracted (-RE) in preparation batch 320-487507 due to low IDA recovery of 13C2PFTeDA in the initial extraction: P4 (320-72932-5) and P6 (320-72932-7). The -RE was outside of preparation holding time. Due to the matrix, the initial volume used deviated from the standard procedure. A 10X dilution was made on the samples, then fortified with IDA and extracted. The reporting limits (RLs) have been adjusted proportionately.

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

Detection Summary

Client: OHM Advisors
Project/Site: Walled Lake and Novi WWTP PFAS Sources

Job ID: 320-72932-1

Client Sample ID: P1-2

Lab Sample ID: 320-72932-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Perfluoropentanoic acid (PFPeA)	6.9		2.0	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	5.6		2.0	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	2.5		2.0	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	2.7		2.0	ng/L	1		537 (modified)	Total/NA
6:2 FTS	7.9		4.9	ng/L	1		537 (modified)	Total/NA

Client Sample ID: P2

Lab Sample ID: 320-72932-2

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	5.9		4.8	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	17		1.9	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	23		1.9	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	3.1		1.9	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	9.7		1.9	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	5.5	I	1.9	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	2.1		1.9	ng/L	1		537 (modified)	Total/NA

Client Sample ID: P3

Lab Sample ID: 320-72932-3

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	5.9		5.0	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	20		2.0	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	30		2.0	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	4.5		2.0	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	30		2.0	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	2.0		2.0	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	3.5		2.0	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	4.9	I	2.0	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	2.0		2.0	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	4.9		2.0	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonamide (FOSA)	4.4		2.0	ng/L	1		537 (modified)	Total/NA

Client Sample ID: P3 FIELD BLANK

Lab Sample ID: 320-72932-4

No Detections.

Client Sample ID: P4

Lab Sample ID: 320-72932-5

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	11		4.9	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	57		1.9	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	67		1.9	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	9.3		1.9	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	28		1.9	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	3.3		1.9	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	8.3		1.9	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	11		1.9	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	14		1.9	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	27		1.9	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonamide (FOSA)	3.2		1.9	ng/L	1		537 (modified)	Total/NA
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	16		4.9	ng/L	1		537 (modified)	Total/NA
6:2 FTS	11		4.9	ng/L	1		537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Sacramento

Detection Summary

Client: OHM Advisors
Project/Site: Walled Lake and Novi WWTP PFAS Sources

Job ID: 320-72932-1

Client Sample ID: P5

Lab Sample ID: 320-72932-6

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	4.5	I	2.3	ug/Kg	1	✱	537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	2.5		2.3	ug/Kg	1	✱	537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	6.5		2.3	ug/Kg	1	✱	537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	2.6		2.3	ug/Kg	1	✱	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	27		5.8	ug/Kg	1	✱	537 (modified)	Total/NA
Perfluorooctanesulfonamide (FOSA)	2.8		2.3	ug/Kg	1	✱	537 (modified)	Total/NA

Client Sample ID: P6

Lab Sample ID: 320-72932-7

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	9.1		4.7	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	49		1.9	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	59		1.9	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	7.8		1.9	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	40		1.9	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	4.5		1.9	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	6.8		1.9	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	3.7		1.9	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	6.7		1.9	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	15		1.9	ng/L	1		537 (modified)	Total/NA
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	13		4.7	ng/L	1		537 (modified)	Total/NA
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	5.2		4.7	ng/L	1		537 (modified)	Total/NA
6:2 FTS	5.4		4.7	ng/L	1		537 (modified)	Total/NA

Client Sample ID: P7

Lab Sample ID: 320-72932-8

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanoic acid (PFOA)	2.5		1.9	ug/Kg	1	✱	537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	5.0		1.9	ug/Kg	1	✱	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	14	I	4.8	ug/Kg	1	✱	537 (modified)	Total/NA
Perfluorodecanesulfonic acid (PFDS)	2.6		1.9	ug/Kg	1	✱	537 (modified)	Total/NA

Client Sample ID: P8

Lab Sample ID: 320-72932-9

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanoic acid (PFOA)	3.2		2.1	ug/Kg	1	✱	537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	5.8		2.1	ug/Kg	1	✱	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	8.9	I	5.3	ug/Kg	1	✱	537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Sacramento

Client Sample Results

Client: OHM Advisors
Project/Site: Walled Lake and Novi WWTP PFAS Sources

Job ID: 320-72932-1

Client Sample ID: P1-2

Lab Sample ID: 320-72932-1

Date Collected: 04/23/21 10:18

Matrix: Water

Date Received: 04/27/21 10:00

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<4.9		4.9	ng/L		05/04/21 04:48	05/06/21 05:22	1
Perfluoropentanoic acid (PFPeA)	6.9		2.0	ng/L		05/04/21 04:48	05/06/21 05:22	1
Perfluorohexanoic acid (PFHxA)	5.6		2.0	ng/L		05/04/21 04:48	05/06/21 05:22	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		05/04/21 04:48	05/06/21 05:22	1
Perfluorooctanoic acid (PFOA)	2.5		2.0	ng/L		05/04/21 04:48	05/06/21 05:22	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		05/04/21 04:48	05/06/21 05:22	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		05/04/21 04:48	05/06/21 05:22	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		05/04/21 04:48	05/06/21 05:22	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		05/04/21 04:48	05/06/21 05:22	1
Perfluorotridecanoic acid (PFTriA)	<2.0		2.0	ng/L		05/04/21 04:48	05/06/21 05:22	1
Perfluorotetradecanoic acid (PFTeA)	<2.0		2.0	ng/L		05/04/21 04:48	05/06/21 05:22	1
Perfluorobutanesulfonic acid (PFBS)	2.7		2.0	ng/L		05/04/21 04:48	05/06/21 05:22	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		05/04/21 04:48	05/06/21 05:22	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		05/04/21 04:48	05/06/21 05:22	1
Perfluoroheptanesulfonic Acid (PFHpS)	<2.0		2.0	ng/L		05/04/21 04:48	05/06/21 05:22	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		05/04/21 04:48	05/06/21 05:22	1
Perfluorononanesulfonic acid (PFNS)	<2.0		2.0	ng/L		05/04/21 04:48	05/06/21 05:22	1
Perfluorodecanesulfonic acid (PFDS)	<2.0		2.0	ng/L		05/04/21 04:48	05/06/21 05:22	1
Perfluorooctanesulfonamide (FOSA)	<2.0		2.0	ng/L		05/04/21 04:48	05/06/21 05:22	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<4.9		4.9	ng/L		05/04/21 04:48	05/06/21 05:22	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<4.9		4.9	ng/L		05/04/21 04:48	05/06/21 05:22	1
4:2 FTS	<2.0		2.0	ng/L		05/04/21 04:48	05/06/21 05:22	1
6:2 FTS	7.9		4.9	ng/L		05/04/21 04:48	05/06/21 05:22	1
8:2 FTS	<2.0		2.0	ng/L		05/04/21 04:48	05/06/21 05:22	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		05/04/21 04:48	05/06/21 05:22	1
HFPO-DA (GenX)	<3.9		3.9	ng/L		05/04/21 04:48	05/06/21 05:22	1
F-53B Major	<2.0		2.0	ng/L		05/04/21 04:48	05/06/21 05:22	1
F-53B Minor	<2.0		2.0	ng/L		05/04/21 04:48	05/06/21 05:22	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	58		25 - 150	05/04/21 04:48	05/06/21 05:22	1
13C5 PFPeA	74		25 - 150	05/04/21 04:48	05/06/21 05:22	1
13C2 PFHxA	81		25 - 150	05/04/21 04:48	05/06/21 05:22	1
13C4 PFHpA	84		25 - 150	05/04/21 04:48	05/06/21 05:22	1
13C4 PFOA	84		25 - 150	05/04/21 04:48	05/06/21 05:22	1
13C5 PFNA	76		25 - 150	05/04/21 04:48	05/06/21 05:22	1
13C2 PFDA	45		25 - 150	05/04/21 04:48	05/06/21 05:22	1
13C2 PFUnA	34		25 - 150	05/04/21 04:48	05/06/21 05:22	1
13C2 PFDoA	21	*5-	25 - 150	05/04/21 04:48	05/06/21 05:22	1
13C2 PFTeDA	25		25 - 150	05/04/21 04:48	05/06/21 05:22	1
18O2 PFHxS	89		25 - 150	05/04/21 04:48	05/06/21 05:22	1
13C4 PFOS	73		25 - 150	05/04/21 04:48	05/06/21 05:22	1
13C8 FOSA	43		25 - 150	05/04/21 04:48	05/06/21 05:22	1
13C3 PFBS	83		25 - 150	05/04/21 04:48	05/06/21 05:22	1
d3-NMeFOSAA	31		25 - 150	05/04/21 04:48	05/06/21 05:22	1
d5-NEtFOSAA	18	*5-	25 - 150	05/04/21 04:48	05/06/21 05:22	1

Eurofins TestAmerica, Sacramento

Client Sample Results

Client: OHM Advisors

Job ID: 320-72932-1

Project/Site: Walled Lake and Novi WWTP PFAS Sources

Client Sample ID: P1-2

Lab Sample ID: 320-72932-1

Date Collected: 04/23/21 10:18

Matrix: Water

Date Received: 04/27/21 10:00

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>
M2-6:2 FTS	169	*5+	25 - 150	05/04/21 04:48	05/06/21 05:22	1
M2-8:2 FTS	62		25 - 150	05/04/21 04:48	05/06/21 05:22	1
M2-4:2 FTS	190	*5+	25 - 150	05/04/21 04:48	05/06/21 05:22	1
13C3 HFPO-DA	70		25 - 150	05/04/21 04:48	05/06/21 05:22	1

Client Sample Results

Client: OHM Advisors
Project/Site: Walled Lake and Novi WWTP PFAS Sources

Job ID: 320-72932-1

Client Sample ID: P2

Lab Sample ID: 320-72932-2

Date Collected: 04/23/21 10:32

Matrix: Water

Date Received: 04/27/21 10:00

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	5.9		4.8	ng/L		05/04/21 04:48	05/06/21 05:31	1
Perfluoropentanoic acid (PFPeA)	17		1.9	ng/L		05/04/21 04:48	05/06/21 05:31	1
Perfluorohexanoic acid (PFHxA)	23		1.9	ng/L		05/04/21 04:48	05/06/21 05:31	1
Perfluoroheptanoic acid (PFHpA)	3.1		1.9	ng/L		05/04/21 04:48	05/06/21 05:31	1
Perfluorooctanoic acid (PFOA)	9.7		1.9	ng/L		05/04/21 04:48	05/06/21 05:31	1
Perfluorononanoic acid (PFNA)	<1.9		1.9	ng/L		05/04/21 04:48	05/06/21 05:31	1
Perfluorodecanoic acid (PFDA)	<1.9		1.9	ng/L		05/04/21 04:48	05/06/21 05:31	1
Perfluoroundecanoic acid (PFUnA)	<1.9		1.9	ng/L		05/04/21 04:48	05/06/21 05:31	1
Perfluorododecanoic acid (PFDoA)	<1.9		1.9	ng/L		05/04/21 04:48	05/06/21 05:31	1
Perfluorotridecanoic acid (PFTriA)	<1.9		1.9	ng/L		05/04/21 04:48	05/06/21 05:31	1
Perfluorotetradecanoic acid (PFTeA)	<1.9		1.9	ng/L		05/04/21 04:48	05/06/21 05:31	1
Perfluorobutanesulfonic acid (PFBS)	5.5	I	1.9	ng/L		05/04/21 04:48	05/06/21 05:31	1
Perfluoropentanesulfonic acid (PFPeS)	<1.9		1.9	ng/L		05/04/21 04:48	05/06/21 05:31	1
Perfluorohexanesulfonic acid (PFHxS)	<1.9		1.9	ng/L		05/04/21 04:48	05/06/21 05:31	1
Perfluoroheptanesulfonic Acid (PFHpS)	<1.9		1.9	ng/L		05/04/21 04:48	05/06/21 05:31	1
Perfluorooctanesulfonic acid (PFOS)	2.1		1.9	ng/L		05/04/21 04:48	05/06/21 05:31	1
Perfluorononanesulfonic acid (PFNS)	<1.9		1.9	ng/L		05/04/21 04:48	05/06/21 05:31	1
Perfluorodecanesulfonic acid (PFDS)	<1.9		1.9	ng/L		05/04/21 04:48	05/06/21 05:31	1
Perfluorooctanesulfonamide (FOSA)	<1.9		1.9	ng/L		05/04/21 04:48	05/06/21 05:31	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<4.8		4.8	ng/L		05/04/21 04:48	05/06/21 05:31	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<4.8		4.8	ng/L		05/04/21 04:48	05/06/21 05:31	1
4:2 FTS	<1.9		1.9	ng/L		05/04/21 04:48	05/06/21 05:31	1
6:2 FTS	<4.8		4.8	ng/L		05/04/21 04:48	05/06/21 05:31	1
8:2 FTS	<1.9		1.9	ng/L		05/04/21 04:48	05/06/21 05:31	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9		1.9	ng/L		05/04/21 04:48	05/06/21 05:31	1
HFPO-DA (GenX)	<3.8		3.8	ng/L		05/04/21 04:48	05/06/21 05:31	1
F-53B Major	<1.9		1.9	ng/L		05/04/21 04:48	05/06/21 05:31	1
F-53B Minor	<1.9		1.9	ng/L		05/04/21 04:48	05/06/21 05:31	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	71		25 - 150	05/04/21 04:48	05/06/21 05:31	1
13C5 PFPeA	91		25 - 150	05/04/21 04:48	05/06/21 05:31	1
13C2 PFHxA	98		25 - 150	05/04/21 04:48	05/06/21 05:31	1
13C4 PFHpA	102		25 - 150	05/04/21 04:48	05/06/21 05:31	1
13C4 PFOA	102		25 - 150	05/04/21 04:48	05/06/21 05:31	1
13C5 PFNA	95		25 - 150	05/04/21 04:48	05/06/21 05:31	1
13C2 PFDA	92		25 - 150	05/04/21 04:48	05/06/21 05:31	1
13C2 PFUnA	101		25 - 150	05/04/21 04:48	05/06/21 05:31	1
13C2 PFDoA	82		25 - 150	05/04/21 04:48	05/06/21 05:31	1
13C2 PFTeDA	58		25 - 150	05/04/21 04:48	05/06/21 05:31	1
18O2 PFHxS	99		25 - 150	05/04/21 04:48	05/06/21 05:31	1
13C4 PFOS	102		25 - 150	05/04/21 04:48	05/06/21 05:31	1
13C8 FOSA	100		25 - 150	05/04/21 04:48	05/06/21 05:31	1
13C3 PFBS	93		25 - 150	05/04/21 04:48	05/06/21 05:31	1
d3-NMeFOSAA	92		25 - 150	05/04/21 04:48	05/06/21 05:31	1

Eurofins TestAmerica, Sacramento

Client Sample Results

Client: OHM Advisors

Job ID: 320-72932-1

Project/Site: Walled Lake and Novi WWTP PFAS Sources

Client Sample ID: P2

Lab Sample ID: 320-72932-2

Date Collected: 04/23/21 10:32

Matrix: Water

Date Received: 04/27/21 10:00

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>
d5-NEtFOSAA	93		25 - 150	05/04/21 04:48	05/06/21 05:31	1
M2-6:2 FTS	152	*5+	25 - 150	05/04/21 04:48	05/06/21 05:31	1
M2-8:2 FTS	106		25 - 150	05/04/21 04:48	05/06/21 05:31	1
M2-4:2 FTS	180	*5+	25 - 150	05/04/21 04:48	05/06/21 05:31	1
13C3 HFPO-DA	84		25 - 150	05/04/21 04:48	05/06/21 05:31	1

Client Sample Results

Client: OHM Advisors
Project/Site: Walled Lake and Novi WWTP PFAS Sources

Job ID: 320-72932-1

Client Sample ID: P3

Lab Sample ID: 320-72932-3

Date Collected: 04/23/21 10:47

Matrix: Water

Date Received: 04/27/21 10:00

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	5.9		5.0	ng/L		05/04/21 04:48	05/06/21 05:40	1
Perfluoropentanoic acid (PFPeA)	20		2.0	ng/L		05/04/21 04:48	05/06/21 05:40	1
Perfluorohexanoic acid (PFHxA)	30		2.0	ng/L		05/04/21 04:48	05/06/21 05:40	1
Perfluoroheptanoic acid (PFHpA)	4.5		2.0	ng/L		05/04/21 04:48	05/06/21 05:40	1
Perfluorooctanoic acid (PFOA)	30		2.0	ng/L		05/04/21 04:48	05/06/21 05:40	1
Perfluorononanoic acid (PFNA)	2.0		2.0	ng/L		05/04/21 04:48	05/06/21 05:40	1
Perfluorodecanoic acid (PFDA)	3.5		2.0	ng/L		05/04/21 04:48	05/06/21 05:40	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		05/04/21 04:48	05/06/21 05:40	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		05/04/21 04:48	05/06/21 05:40	1
Perfluorotridecanoic acid (PFTriA)	<2.0		2.0	ng/L		05/04/21 04:48	05/06/21 05:40	1
Perfluorotetradecanoic acid (PFTeA)	<2.0		2.0	ng/L		05/04/21 04:48	05/06/21 05:40	1
Perfluorobutanesulfonic acid (PFBS)	4.9	I	2.0	ng/L		05/04/21 04:48	05/06/21 05:40	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		05/04/21 04:48	05/06/21 05:40	1
Perfluorohexanesulfonic acid (PFHxS)	2.0		2.0	ng/L		05/04/21 04:48	05/06/21 05:40	1
Perfluoroheptanesulfonic Acid (PFHpS)	<2.0		2.0	ng/L		05/04/21 04:48	05/06/21 05:40	1
Perfluorooctanesulfonic acid (PFOS)	4.9		2.0	ng/L		05/04/21 04:48	05/06/21 05:40	1
Perfluorononanesulfonic acid (PFNS)	<2.0		2.0	ng/L		05/04/21 04:48	05/06/21 05:40	1
Perfluorodecanesulfonic acid (PFDS)	<2.0		2.0	ng/L		05/04/21 04:48	05/06/21 05:40	1
Perfluorooctanesulfonamide (FOSA)	4.4		2.0	ng/L		05/04/21 04:48	05/06/21 05:40	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<5.0		5.0	ng/L		05/04/21 04:48	05/06/21 05:40	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<5.0		5.0	ng/L		05/04/21 04:48	05/06/21 05:40	1
4:2 FTS	<2.0		2.0	ng/L		05/04/21 04:48	05/06/21 05:40	1
6:2 FTS	<5.0		5.0	ng/L		05/04/21 04:48	05/06/21 05:40	1
8:2 FTS	<2.0		2.0	ng/L		05/04/21 04:48	05/06/21 05:40	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		05/04/21 04:48	05/06/21 05:40	1
HFPO-DA (GenX)	<4.0		4.0	ng/L		05/04/21 04:48	05/06/21 05:40	1
F-53B Major	<2.0		2.0	ng/L		05/04/21 04:48	05/06/21 05:40	1
F-53B Minor	<2.0		2.0	ng/L		05/04/21 04:48	05/06/21 05:40	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	77		25 - 150	05/04/21 04:48	05/06/21 05:40	1
13C5 PFPeA	88		25 - 150	05/04/21 04:48	05/06/21 05:40	1
13C2 PFHxA	71		25 - 150	05/04/21 04:48	05/06/21 05:40	1
13C4 PFHpA	97		25 - 150	05/04/21 04:48	05/06/21 05:40	1
13C4 PFOA	93		25 - 150	05/04/21 04:48	05/06/21 05:40	1
13C5 PFNA	102		25 - 150	05/04/21 04:48	05/06/21 05:40	1
13C2 PFDA	94		25 - 150	05/04/21 04:48	05/06/21 05:40	1
13C2 PFUnA	92		25 - 150	05/04/21 04:48	05/06/21 05:40	1
13C2 PFDoA	71		25 - 150	05/04/21 04:48	05/06/21 05:40	1
13C2 PFTeDA	55		25 - 150	05/04/21 04:48	05/06/21 05:40	1
18O2 PFHxS	105		25 - 150	05/04/21 04:48	05/06/21 05:40	1
13C4 PFOS	99		25 - 150	05/04/21 04:48	05/06/21 05:40	1
13C8 FOSA	94		25 - 150	05/04/21 04:48	05/06/21 05:40	1

Eurofins TestAmerica, Sacramento

Client Sample Results

Client: OHM Advisors
Project/Site: Walled Lake and Novi WWTP PFAS Sources

Job ID: 320-72932-1

Client Sample ID: P3

Date Collected: 04/23/21 10:47

Date Received: 04/27/21 10:00

Lab Sample ID: 320-72932-3

Matrix: Water

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>
13C3 PFBS	98		25 - 150	05/04/21 04:48	05/06/21 05:40	1
d3-NMeFOSAA	87		25 - 150	05/04/21 04:48	05/06/21 05:40	1
d5-NEtFOSAA	92		25 - 150	05/04/21 04:48	05/06/21 05:40	1
M2-6:2 FTS	150		25 - 150	05/04/21 04:48	05/06/21 05:40	1
M2-8:2 FTS	133		25 - 150	05/04/21 04:48	05/06/21 05:40	1
M2-4:2 FTS	200	*5+	25 - 150	05/04/21 04:48	05/06/21 05:40	1
13C3 HFPO-DA	87		25 - 150	05/04/21 04:48	05/06/21 05:40	1

Client Sample Results

Client: OHM Advisors
Project/Site: Walled Lake and Novi WWTP PFAS Sources

Job ID: 320-72932-1

Client Sample ID: P3 FIELD BLANK

Lab Sample ID: 320-72932-4

Date Collected: 04/23/21 10:44

Matrix: Water

Date Received: 04/27/21 10:00

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<4.7		4.7	ng/L		05/04/21 04:48	05/06/21 05:49	1
Perfluoropentanoic acid (PFPeA)	<1.9		1.9	ng/L		05/04/21 04:48	05/06/21 05:49	1
Perfluorohexanoic acid (PFHxA)	<1.9		1.9	ng/L		05/04/21 04:48	05/06/21 05:49	1
Perfluoroheptanoic acid (PFHpA)	<1.9		1.9	ng/L		05/04/21 04:48	05/06/21 05:49	1
Perfluorooctanoic acid (PFOA)	<1.9		1.9	ng/L		05/04/21 04:48	05/06/21 05:49	1
Perfluorononanoic acid (PFNA)	<1.9		1.9	ng/L		05/04/21 04:48	05/06/21 05:49	1
Perfluorodecanoic acid (PFDA)	<1.9		1.9	ng/L		05/04/21 04:48	05/06/21 05:49	1
Perfluoroundecanoic acid (PFUnA)	<1.9		1.9	ng/L		05/04/21 04:48	05/06/21 05:49	1
Perfluorododecanoic acid (PFDoA)	<1.9		1.9	ng/L		05/04/21 04:48	05/06/21 05:49	1
Perfluorotridecanoic acid (PFTriA)	<1.9		1.9	ng/L		05/04/21 04:48	05/06/21 05:49	1
Perfluorotetradecanoic acid (PFTeA)	<1.9		1.9	ng/L		05/04/21 04:48	05/06/21 05:49	1
Perfluorobutanesulfonic acid (PFBS)	<1.9		1.9	ng/L		05/04/21 04:48	05/06/21 05:49	1
Perfluoropentanesulfonic acid (PFPeS)	<1.9		1.9	ng/L		05/04/21 04:48	05/06/21 05:49	1
Perfluorohexanesulfonic acid (PFHxS)	<1.9		1.9	ng/L		05/04/21 04:48	05/06/21 05:49	1
Perfluoroheptanesulfonic Acid (PFHpS)	<1.9		1.9	ng/L		05/04/21 04:48	05/06/21 05:49	1
Perfluorooctanesulfonic acid (PFOS)	<1.9		1.9	ng/L		05/04/21 04:48	05/06/21 05:49	1
Perfluorononanesulfonic acid (PFNS)	<1.9		1.9	ng/L		05/04/21 04:48	05/06/21 05:49	1
Perfluorodecanesulfonic acid (PFDS)	<1.9		1.9	ng/L		05/04/21 04:48	05/06/21 05:49	1
Perfluorooctanesulfonamide (FOSA)	<1.9		1.9	ng/L		05/04/21 04:48	05/06/21 05:49	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<4.7		4.7	ng/L		05/04/21 04:48	05/06/21 05:49	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<4.7		4.7	ng/L		05/04/21 04:48	05/06/21 05:49	1
4:2 FTS	<1.9		1.9	ng/L		05/04/21 04:48	05/06/21 05:49	1
6:2 FTS	<4.7		4.7	ng/L		05/04/21 04:48	05/06/21 05:49	1
8:2 FTS	<1.9		1.9	ng/L		05/04/21 04:48	05/06/21 05:49	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9		1.9	ng/L		05/04/21 04:48	05/06/21 05:49	1
HFPO-DA (GenX)	<3.8		3.8	ng/L		05/04/21 04:48	05/06/21 05:49	1
F-53B Major	<1.9		1.9	ng/L		05/04/21 04:48	05/06/21 05:49	1
F-53B Minor	<1.9		1.9	ng/L		05/04/21 04:48	05/06/21 05:49	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	96		25 - 150	05/04/21 04:48	05/06/21 05:49	1
13C5 PFPeA	108		25 - 150	05/04/21 04:48	05/06/21 05:49	1
13C2 PFHxA	97		25 - 150	05/04/21 04:48	05/06/21 05:49	1
13C4 PFHpA	98		25 - 150	05/04/21 04:48	05/06/21 05:49	1
13C4 PFOA	98		25 - 150	05/04/21 04:48	05/06/21 05:49	1
13C5 PFNA	99		25 - 150	05/04/21 04:48	05/06/21 05:49	1
13C2 PFDA	101		25 - 150	05/04/21 04:48	05/06/21 05:49	1
13C2 PFUnA	106		25 - 150	05/04/21 04:48	05/06/21 05:49	1
13C2 PFDoA	99		25 - 150	05/04/21 04:48	05/06/21 05:49	1
13C2 PFTeDA	97		25 - 150	05/04/21 04:48	05/06/21 05:49	1
18O2 PFHxS	102		25 - 150	05/04/21 04:48	05/06/21 05:49	1
13C4 PFOS	101		25 - 150	05/04/21 04:48	05/06/21 05:49	1
13C8 FOSA	105		25 - 150	05/04/21 04:48	05/06/21 05:49	1
13C3 PFBS	94		25 - 150	05/04/21 04:48	05/06/21 05:49	1
d3-NMeFOSAA	95		25 - 150	05/04/21 04:48	05/06/21 05:49	1
d5-NEtFOSAA	109		25 - 150	05/04/21 04:48	05/06/21 05:49	1

Eurofins TestAmerica, Sacramento

Client Sample Results

Client: OHM Advisors

Job ID: 320-72932-1

Project/Site: Walled Lake and Novi WWTP PFAS Sources

Client Sample ID: P3 FIELD BLANK

Lab Sample ID: 320-72932-4

Date Collected: 04/23/21 10:44

Matrix: Water

Date Received: 04/27/21 10:00

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>
M2-6:2 FTS	113		25 - 150	05/04/21 04:48	05/06/21 05:49	1
M2-8:2 FTS	114		25 - 150	05/04/21 04:48	05/06/21 05:49	1
M2-4:2 FTS	118		25 - 150	05/04/21 04:48	05/06/21 05:49	1
13C3 HFPO-DA	87		25 - 150	05/04/21 04:48	05/06/21 05:49	1

Client Sample Results

Client: OHM Advisors
Project/Site: Walled Lake and Novi WWTP PFAS Sources

Job ID: 320-72932-1

Client Sample ID: P4

Lab Sample ID: 320-72932-5

Date Collected: 04/23/21 11:10

Matrix: Water

Date Received: 04/27/21 10:00

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	11		4.9	ng/L		05/04/21 04:48	05/06/21 05:58	1
Perfluoropentanoic acid (PFPeA)	57		1.9	ng/L		05/04/21 04:48	05/06/21 05:58	1
Perfluorohexanoic acid (PFHxA)	67		1.9	ng/L		05/04/21 04:48	05/06/21 05:58	1
Perfluoroheptanoic acid (PFHpA)	9.3		1.9	ng/L		05/04/21 04:48	05/06/21 05:58	1
Perfluorooctanoic acid (PFOA)	28		1.9	ng/L		05/04/21 04:48	05/06/21 05:58	1
Perfluorononanoic acid (PFNA)	3.3		1.9	ng/L		05/04/21 04:48	05/06/21 05:58	1
Perfluorodecanoic acid (PFDA)	8.3		1.9	ng/L		05/04/21 04:48	05/06/21 05:58	1
Perfluoroundecanoic acid (PFUnA)	<1.9		1.9	ng/L		05/04/21 04:48	05/06/21 05:58	1
Perfluorododecanoic acid (PFDoA)	<1.9		1.9	ng/L		05/04/21 04:48	05/06/21 05:58	1
Perfluorotridecanoic acid (PFTriA)	<1.9		1.9	ng/L		05/04/21 04:48	05/06/21 05:58	1
Perfluorotetradecanoic acid (PFTeA)	<1.9		1.9	ng/L		05/04/21 04:48	05/06/21 05:58	1
Perfluorobutanesulfonic acid (PFBS)	11		1.9	ng/L		05/04/21 04:48	05/06/21 05:58	1
Perfluoropentanesulfonic acid (PFPeS)	<1.9		1.9	ng/L		05/04/21 04:48	05/06/21 05:58	1
Perfluorohexanesulfonic acid (PFHxS)	14		1.9	ng/L		05/04/21 04:48	05/06/21 05:58	1
Perfluoroheptanesulfonic Acid (PFHpS)	<1.9		1.9	ng/L		05/04/21 04:48	05/06/21 05:58	1
Perfluorooctanesulfonic acid (PFOS)	27		1.9	ng/L		05/04/21 04:48	05/06/21 05:58	1
Perfluorononanesulfonic acid (PFNS)	<1.9		1.9	ng/L		05/04/21 04:48	05/06/21 05:58	1
Perfluorodecanesulfonic acid (PFDS)	<1.9		1.9	ng/L		05/04/21 04:48	05/06/21 05:58	1
Perfluorooctanesulfonamide (FOSA)	3.2		1.9	ng/L		05/04/21 04:48	05/06/21 05:58	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	16		4.9	ng/L		05/04/21 04:48	05/06/21 05:58	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<4.9		4.9	ng/L		05/04/21 04:48	05/06/21 05:58	1
4:2 FTS	<1.9		1.9	ng/L		05/04/21 04:48	05/06/21 05:58	1
6:2 FTS	11		4.9	ng/L		05/04/21 04:48	05/06/21 05:58	1
8:2 FTS	<1.9		1.9	ng/L		05/04/21 04:48	05/06/21 05:58	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9		1.9	ng/L		05/04/21 04:48	05/06/21 05:58	1
HFPO-DA (GenX)	<3.9		3.9	ng/L		05/04/21 04:48	05/06/21 05:58	1
F-53B Major	<1.9		1.9	ng/L		05/04/21 04:48	05/06/21 05:58	1
F-53B Minor	<1.9		1.9	ng/L		05/04/21 04:48	05/06/21 05:58	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	52		25 - 150	05/04/21 04:48	05/06/21 05:58	1
13C5 PFPeA	53		25 - 150	05/04/21 04:48	05/06/21 05:58	1
13C2 PFHxA	81		25 - 150	05/04/21 04:48	05/06/21 05:58	1
13C4 PFHpA	95		25 - 150	05/04/21 04:48	05/06/21 05:58	1
13C4 PFOA	94		25 - 150	05/04/21 04:48	05/06/21 05:58	1
13C5 PFNA	98		25 - 150	05/04/21 04:48	05/06/21 05:58	1
13C2 PFDA	82		25 - 150	05/04/21 04:48	05/06/21 05:58	1
13C2 PFUnA	44		25 - 150	05/04/21 04:48	05/06/21 05:58	1
13C2 PFDoA	21	*5-	25 - 150	05/04/21 04:48	05/06/21 05:58	1
13C2 PFTeDA	8	*5-	25 - 150	05/04/21 04:48	05/06/21 05:58	1
18O2 PFHxS	132		25 - 150	05/04/21 04:48	05/06/21 05:58	1
13C4 PFOS	86		25 - 150	05/04/21 04:48	05/06/21 05:58	1
13C8 FOSA	69		25 - 150	05/04/21 04:48	05/06/21 05:58	1

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Client Sample Results

Client: OHM Advisors
Project/Site: Walled Lake and Novi WWTP PFAS Sources

Job ID: 320-72932-1

Client Sample ID: P4

Lab Sample ID: 320-72932-5

Date Collected: 04/23/21 11:10

Matrix: Water

Date Received: 04/27/21 10:00

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 PFBS	115		25 - 150	05/04/21 04:48	05/06/21 05:58	1
d3-NMeFOSAA	46		25 - 150	05/04/21 04:48	05/06/21 05:58	1
d5-NEtFOSAA	48		25 - 150	05/04/21 04:48	05/06/21 05:58	1
M2-6:2 FTS	240	*5+	25 - 150	05/04/21 04:48	05/06/21 05:58	1
M2-8:2 FTS	173	*5+	25 - 150	05/04/21 04:48	05/06/21 05:58	1
M2-4:2 FTS	218	*5+	25 - 150	05/04/21 04:48	05/06/21 05:58	1
13C3 HFPO-DA	84		25 - 150	05/04/21 04:48	05/06/21 05:58	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorotetradecanoic acid (PFTeA)	<20	H	20	ng/L		05/10/21 05:30	05/10/21 15:21	1
Isotope Dilution	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C2 PFTeDA	27		25 - 150			05/10/21 05:30	05/10/21 15:21	1

Client Sample Results

Client: OHM Advisors
Project/Site: Walled Lake and Novi WWTP PFAS Sources

Job ID: 320-72932-1

Client Sample ID: P5

Lab Sample ID: 320-72932-6

Date Collected: 04/23/21 11:10

Matrix: Solid

Date Received: 04/27/21 10:00

Percent Solids: 8.2

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.3		2.3	ug/Kg	✱	05/03/21 04:39	05/04/21 09:59	1
Perfluoropentanoic acid (PFPeA)	<2.3		2.3	ug/Kg	✱	05/03/21 04:39	05/04/21 09:59	1
Perfluorohexanoic acid (PFHxA)	4.5	I	2.3	ug/Kg	✱	05/03/21 04:39	05/04/21 09:59	1
Perfluoroheptanoic acid (PFHpA)	<2.3		2.3	ug/Kg	✱	05/03/21 04:39	05/04/21 09:59	1
Perfluorooctanoic acid (PFOA)	2.5		2.3	ug/Kg	✱	05/03/21 04:39	05/04/21 09:59	1
Perfluorononanoic acid (PFNA)	<2.3		2.3	ug/Kg	✱	05/03/21 04:39	05/04/21 09:59	1
Perfluorodecanoic acid (PFDA)	6.5		2.3	ug/Kg	✱	05/03/21 04:39	05/04/21 09:59	1
Perfluoroundecanoic acid (PFUnA)	<2.3		2.3	ug/Kg	✱	05/03/21 04:39	05/04/21 09:59	1
Perfluorododecanoic acid (PFDoA)	<2.3		2.3	ug/Kg	✱	05/03/21 04:39	05/04/21 09:59	1
Perfluorotridecanoic acid (PFTriA)	<2.3		2.3	ug/Kg	✱	05/03/21 04:39	05/04/21 09:59	1
Perfluorotetradecanoic acid (PFTeA)	<2.3		2.3	ug/Kg	✱	05/03/21 04:39	05/04/21 09:59	1
Perfluorobutanesulfonic acid (PFBS)	<2.3		2.3	ug/Kg	✱	05/03/21 04:39	05/04/21 09:59	1
Perfluoropentanesulfonic acid (PFPeS)	<2.3		2.3	ug/Kg	✱	05/03/21 04:39	05/04/21 09:59	1
Perfluorohexanesulfonic acid (PFHxS)	2.6		2.3	ug/Kg	✱	05/03/21 04:39	05/04/21 09:59	1
Perfluoroheptanesulfonic Acid (PFHpS)	<2.3		2.3	ug/Kg	✱	05/03/21 04:39	05/04/21 09:59	1
Perfluorooctanesulfonic acid (PFOS)	27		5.8	ug/Kg	✱	05/03/21 04:39	05/04/21 09:59	1
Perfluorononanesulfonic acid (PFNS)	<2.3		2.3	ug/Kg	✱	05/03/21 04:39	05/04/21 09:59	1
Perfluorodecanesulfonic acid (PFDS)	<2.3		2.3	ug/Kg	✱	05/03/21 04:39	05/04/21 09:59	1
Perfluorooctanesulfonamide (FOSA)	2.8		2.3	ug/Kg	✱	05/03/21 04:39	05/04/21 09:59	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<23		23	ug/Kg	✱	05/03/21 04:39	05/04/21 09:59	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<23		23	ug/Kg	✱	05/03/21 04:39	05/04/21 09:59	1
4:2 FTS	<23		23	ug/Kg	✱	05/03/21 04:39	05/04/21 09:59	1
6:2 FTS	<23		23	ug/Kg	✱	05/03/21 04:39	05/04/21 09:59	1
8:2 FTS	<23		23	ug/Kg	✱	05/03/21 04:39	05/04/21 09:59	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.3		2.3	ug/Kg	✱	05/03/21 04:39	05/04/21 09:59	1
HFPO-DA (GenX)	<2.9		2.9	ug/Kg	✱	05/03/21 04:39	05/04/21 09:59	1
F-53B Major	<2.3		2.3	ug/Kg	✱	05/03/21 04:39	05/04/21 09:59	1
F-53B Minor	<2.3		2.3	ug/Kg	✱	05/03/21 04:39	05/04/21 09:59	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	50		25 - 150	05/03/21 04:39	05/04/21 09:59	1
13C5 PFPeA	60		25 - 150	05/03/21 04:39	05/04/21 09:59	1
13C2 PFHxA	73		25 - 150	05/03/21 04:39	05/04/21 09:59	1
13C4 PFHpA	79		25 - 150	05/03/21 04:39	05/04/21 09:59	1
13C4 PFOA	79		25 - 150	05/03/21 04:39	05/04/21 09:59	1
13C5 PFNA	77		25 - 150	05/03/21 04:39	05/04/21 09:59	1
13C2 PFDA	80		25 - 150	05/03/21 04:39	05/04/21 09:59	1
13C2 PFUnA	75		25 - 150	05/03/21 04:39	05/04/21 09:59	1
13C2 PFDoA	59		25 - 150	05/03/21 04:39	05/04/21 09:59	1
13C2 PFTeDA	39		25 - 150	05/03/21 04:39	05/04/21 09:59	1
18O2 PFHxS	73		25 - 150	05/03/21 04:39	05/04/21 09:59	1
13C4 PFOS	77		25 - 150	05/03/21 04:39	05/04/21 09:59	1
13C8 FOSA	74		25 - 150	05/03/21 04:39	05/04/21 09:59	1
13C3 PFBS	66		25 - 150	05/03/21 04:39	05/04/21 09:59	1

Eurofins TestAmerica, Sacramento

Client Sample Results

Client: OHM Advisors
Project/Site: Walled Lake and Novi WWTP PFAS Sources

Job ID: 320-72932-1

Client Sample ID: P5

Date Collected: 04/23/21 11:10

Date Received: 04/27/21 10:00

Lab Sample ID: 320-72932-6

Matrix: Solid

Percent Solids: 8.2

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d3-NMeFOSAA	72		25 - 150	05/03/21 04:39	05/04/21 09:59	1
d5-NEtFOSAA	73		25 - 150	05/03/21 04:39	05/04/21 09:59	1
M2-6:2 FTS	141		25 - 150	05/03/21 04:39	05/04/21 09:59	1
M2-8:2 FTS	140		25 - 150	05/03/21 04:39	05/04/21 09:59	1
M2-4:2 FTS	116		25 - 150	05/03/21 04:39	05/04/21 09:59	1
13C3 HFPO-DA	74		25 - 150	05/03/21 04:39	05/04/21 09:59	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	91.8		0.1	%			05/03/21 14:26	1

Client Sample Results

Client: OHM Advisors
Project/Site: Walled Lake and Novi WWTP PFAS Sources

Job ID: 320-72932-1

Client Sample ID: P6

Lab Sample ID: 320-72932-7

Date Collected: 04/23/21 11:22

Matrix: Water

Date Received: 04/27/21 10:00

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	9.1		4.7	ng/L		05/04/21 04:48	05/06/21 06:07	1
Perfluoropentanoic acid (PFPeA)	49		1.9	ng/L		05/04/21 04:48	05/06/21 06:07	1
Perfluorohexanoic acid (PFHxA)	59		1.9	ng/L		05/04/21 04:48	05/06/21 06:07	1
Perfluoroheptanoic acid (PFHpA)	7.8		1.9	ng/L		05/04/21 04:48	05/06/21 06:07	1
Perfluorooctanoic acid (PFOA)	40		1.9	ng/L		05/04/21 04:48	05/06/21 06:07	1
Perfluorononanoic acid (PFNA)	4.5		1.9	ng/L		05/04/21 04:48	05/06/21 06:07	1
Perfluorodecanoic acid (PFDA)	6.8		1.9	ng/L		05/04/21 04:48	05/06/21 06:07	1
Perfluoroundecanoic acid (PFUnA)	<1.9		1.9	ng/L		05/04/21 04:48	05/06/21 06:07	1
Perfluorododecanoic acid (PFDoA)	<1.9		1.9	ng/L		05/04/21 04:48	05/06/21 06:07	1
Perfluorotridecanoic acid (PFTriA)	<1.9		1.9	ng/L		05/04/21 04:48	05/06/21 06:07	1
Perfluorotetradecanoic acid (PFTeA)	<1.9		1.9	ng/L		05/04/21 04:48	05/06/21 06:07	1
Perfluorobutanesulfonic acid (PFBS)	3.7		1.9	ng/L		05/04/21 04:48	05/06/21 06:07	1
Perfluoropentanesulfonic acid (PFPeS)	<1.9		1.9	ng/L		05/04/21 04:48	05/06/21 06:07	1
Perfluorohexanesulfonic acid (PFHxS)	6.7		1.9	ng/L		05/04/21 04:48	05/06/21 06:07	1
Perfluoroheptanesulfonic Acid (PFHpS)	<1.9		1.9	ng/L		05/04/21 04:48	05/06/21 06:07	1
Perfluorooctanesulfonic acid (PFOS)	15		1.9	ng/L		05/04/21 04:48	05/06/21 06:07	1
Perfluorononanesulfonic acid (PFNS)	<1.9		1.9	ng/L		05/04/21 04:48	05/06/21 06:07	1
Perfluorodecanesulfonic acid (PFDS)	<1.9		1.9	ng/L		05/04/21 04:48	05/06/21 06:07	1
Perfluorooctanesulfonamide (FOSA)	<1.9		1.9	ng/L		05/04/21 04:48	05/06/21 06:07	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	13		4.7	ng/L		05/04/21 04:48	05/06/21 06:07	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	5.2		4.7	ng/L		05/04/21 04:48	05/06/21 06:07	1
4:2 FTS	<1.9		1.9	ng/L		05/04/21 04:48	05/06/21 06:07	1
6:2 FTS	5.4		4.7	ng/L		05/04/21 04:48	05/06/21 06:07	1
8:2 FTS	<1.9		1.9	ng/L		05/04/21 04:48	05/06/21 06:07	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9		1.9	ng/L		05/04/21 04:48	05/06/21 06:07	1
HFPO-DA (GenX)	<3.8		3.8	ng/L		05/04/21 04:48	05/06/21 06:07	1
F-53B Major	<1.9		1.9	ng/L		05/04/21 04:48	05/06/21 06:07	1
F-53B Minor	<1.9		1.9	ng/L		05/04/21 04:48	05/06/21 06:07	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	35		25 - 150	05/04/21 04:48	05/06/21 06:07	1
13C5 PFPeA	49		25 - 150	05/04/21 04:48	05/06/21 06:07	1
13C2 PFHxA	54		25 - 150	05/04/21 04:48	05/06/21 06:07	1
13C4 PFHpA	89		25 - 150	05/04/21 04:48	05/06/21 06:07	1
13C4 PFOA	91		25 - 150	05/04/21 04:48	05/06/21 06:07	1
13C5 PFNA	93		25 - 150	05/04/21 04:48	05/06/21 06:07	1
13C2 PFDA	79		25 - 150	05/04/21 04:48	05/06/21 06:07	1
13C2 PFUnA	45		25 - 150	05/04/21 04:48	05/06/21 06:07	1
13C2 PFDoA	20	*5-	25 - 150	05/04/21 04:48	05/06/21 06:07	1
13C2 PFTeDA	7	*5-	25 - 150	05/04/21 04:48	05/06/21 06:07	1
18O2 PFHxS	123		25 - 150	05/04/21 04:48	05/06/21 06:07	1
13C4 PFOS	94		25 - 150	05/04/21 04:48	05/06/21 06:07	1
13C8 FOSA	57		25 - 150	05/04/21 04:48	05/06/21 06:07	1
13C3 PFBS	101		25 - 150	05/04/21 04:48	05/06/21 06:07	1

Eurofins TestAmerica, Sacramento

Client Sample Results

Client: OHM Advisors
Project/Site: Walled Lake and Novi WWTP PFAS Sources

Job ID: 320-72932-1

Client Sample ID: P6

Lab Sample ID: 320-72932-7

Date Collected: 04/23/21 11:22

Matrix: Water

Date Received: 04/27/21 10:00

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d3-NMeFOSAA	46		25 - 150	05/04/21 04:48	05/06/21 06:07	1
d5-NEtFOSAA	44		25 - 150	05/04/21 04:48	05/06/21 06:07	1
M2-6:2 FTS	284	*5+	25 - 150	05/04/21 04:48	05/06/21 06:07	1
M2-8:2 FTS	175	*5+	25 - 150	05/04/21 04:48	05/06/21 06:07	1
M2-4:2 FTS	204	*5+	25 - 150	05/04/21 04:48	05/06/21 06:07	1
13C3 HFPO-DA	81		25 - 150	05/04/21 04:48	05/06/21 06:07	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorotetradecanoic acid (PFTeA)	<20	H	20	ng/L		05/10/21 05:30	05/10/21 15:30	1
Isotope Dilution	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C2 PFTeDA	29		25 - 150			05/10/21 05:30	05/10/21 15:30	1

Client Sample Results

Client: OHM Advisors
Project/Site: Walled Lake and Novi WWTP PFAS Sources

Job ID: 320-72932-1

Client Sample ID: P7

Lab Sample ID: 320-72932-8

Date Collected: 04/23/21 11:22

Matrix: Solid

Date Received: 04/27/21 10:00

Percent Solids: 9.9

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<1.9		1.9	ug/Kg	☆	05/03/21 04:39	05/04/21 10:08	1
Perfluoropentanoic acid (PFPeA)	<1.9		1.9	ug/Kg	☆	05/03/21 04:39	05/04/21 10:08	1
Perfluorohexanoic acid (PFHxA)	<1.9		1.9	ug/Kg	☆	05/03/21 04:39	05/04/21 10:08	1
Perfluoroheptanoic acid (PFHpA)	<1.9		1.9	ug/Kg	☆	05/03/21 04:39	05/04/21 10:08	1
Perfluorooctanoic acid (PFOA)	2.5		1.9	ug/Kg	☆	05/03/21 04:39	05/04/21 10:08	1
Perfluorononanoic acid (PFNA)	<1.9		1.9	ug/Kg	☆	05/03/21 04:39	05/04/21 10:08	1
Perfluorodecanoic acid (PFDA)	5.0		1.9	ug/Kg	☆	05/03/21 04:39	05/04/21 10:08	1
Perfluoroundecanoic acid (PFUnA)	<1.9		1.9	ug/Kg	☆	05/03/21 04:39	05/04/21 10:08	1
Perfluorododecanoic acid (PFDoA)	<1.9		1.9	ug/Kg	☆	05/03/21 04:39	05/04/21 10:08	1
Perfluorotridecanoic acid (PFTriA)	<1.9		1.9	ug/Kg	☆	05/03/21 04:39	05/04/21 10:08	1
Perfluorotetradecanoic acid (PFTeA)	<1.9		1.9	ug/Kg	☆	05/03/21 04:39	05/04/21 10:08	1
Perfluorobutanesulfonic acid (PFBS)	<1.9		1.9	ug/Kg	☆	05/03/21 04:39	05/04/21 10:08	1
Perfluoropentanesulfonic acid (PFPeS)	<1.9		1.9	ug/Kg	☆	05/03/21 04:39	05/04/21 10:08	1
Perfluorohexanesulfonic acid (PFHxS)	<1.9		1.9	ug/Kg	☆	05/03/21 04:39	05/04/21 10:08	1
Perfluoroheptanesulfonic Acid (PFHpS)	<1.9		1.9	ug/Kg	☆	05/03/21 04:39	05/04/21 10:08	1
Perfluorooctanesulfonic acid (PFOS)	14	I	4.8	ug/Kg	☆	05/03/21 04:39	05/04/21 10:08	1
Perfluorononanesulfonic acid (PFNS)	<1.9		1.9	ug/Kg	☆	05/03/21 04:39	05/04/21 10:08	1
Perfluorodecanesulfonic acid (PFDS)	2.6		1.9	ug/Kg	☆	05/03/21 04:39	05/04/21 10:08	1
Perfluorooctanesulfonamide (FOSA)	<1.9		1.9	ug/Kg	☆	05/03/21 04:39	05/04/21 10:08	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<19		19	ug/Kg	☆	05/03/21 04:39	05/04/21 10:08	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<19		19	ug/Kg	☆	05/03/21 04:39	05/04/21 10:08	1
4:2 FTS	<19		19	ug/Kg	☆	05/03/21 04:39	05/04/21 10:08	1
6:2 FTS	<19		19	ug/Kg	☆	05/03/21 04:39	05/04/21 10:08	1
8:2 FTS	<19		19	ug/Kg	☆	05/03/21 04:39	05/04/21 10:08	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9		1.9	ug/Kg	☆	05/03/21 04:39	05/04/21 10:08	1
HFPO-DA (GenX)	<2.4		2.4	ug/Kg	☆	05/03/21 04:39	05/04/21 10:08	1
F-53B Major	<1.9		1.9	ug/Kg	☆	05/03/21 04:39	05/04/21 10:08	1
F-53B Minor	<1.9		1.9	ug/Kg	☆	05/03/21 04:39	05/04/21 10:08	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	32		25 - 150	05/03/21 04:39	05/04/21 10:08	1
13C5 PFPeA	59		25 - 150	05/03/21 04:39	05/04/21 10:08	1
13C2 PFHxA	69		25 - 150	05/03/21 04:39	05/04/21 10:08	1
13C4 PFHpA	81		25 - 150	05/03/21 04:39	05/04/21 10:08	1
13C4 PFOA	82		25 - 150	05/03/21 04:39	05/04/21 10:08	1
13C5 PFNA	79		25 - 150	05/03/21 04:39	05/04/21 10:08	1
13C2 PFDA	82		25 - 150	05/03/21 04:39	05/04/21 10:08	1
13C2 PFUnA	75		25 - 150	05/03/21 04:39	05/04/21 10:08	1
13C2 PFDoA	54		25 - 150	05/03/21 04:39	05/04/21 10:08	1
13C2 PFTeDA	41		25 - 150	05/03/21 04:39	05/04/21 10:08	1
18O2 PFHxS	78		25 - 150	05/03/21 04:39	05/04/21 10:08	1
13C4 PFOS	82		25 - 150	05/03/21 04:39	05/04/21 10:08	1
13C8 FOSA	75		25 - 150	05/03/21 04:39	05/04/21 10:08	1
13C3 PFBS	64		25 - 150	05/03/21 04:39	05/04/21 10:08	1
d3-NMeFOSAA	83		25 - 150	05/03/21 04:39	05/04/21 10:08	1

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Client Sample Results

Client: OHM Advisors
Project/Site: Walled Lake and Novi WWTP PFAS Sources

Job ID: 320-72932-1

Client Sample ID: P7

Date Collected: 04/23/21 11:22

Date Received: 04/27/21 10:00

Lab Sample ID: 320-72932-8

Matrix: Solid

Percent Solids: 9.9

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	61		25 - 150	05/03/21 04:39	05/04/21 10:08	1
M2-6:2 FTS	149		25 - 150	05/03/21 04:39	05/04/21 10:08	1
M2-8:2 FTS	152	*5+	25 - 150	05/03/21 04:39	05/04/21 10:08	1
M2-4:2 FTS	101		25 - 150	05/03/21 04:39	05/04/21 10:08	1
13C3 HFPO-DA	79		25 - 150	05/03/21 04:39	05/04/21 10:08	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	90.1		0.1	%			05/03/21 14:26	1

Client Sample Results

Client: OHM Advisors
Project/Site: Walled Lake and Novi WWTP PFAS Sources

Job ID: 320-72932-1

Client Sample ID: P8

Lab Sample ID: 320-72932-9

Date Collected: 04/23/21 11:46

Matrix: Solid

Date Received: 04/27/21 10:00

Percent Solids: 9.0

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.1		2.1	ug/Kg	☆	05/03/21 04:39	05/04/21 10:18	1
Perfluoropentanoic acid (PFPeA)	<2.1		2.1	ug/Kg	☆	05/03/21 04:39	05/04/21 10:18	1
Perfluorohexanoic acid (PFHxA)	<2.1		2.1	ug/Kg	☆	05/03/21 04:39	05/04/21 10:18	1
Perfluoroheptanoic acid (PFHpA)	<2.1		2.1	ug/Kg	☆	05/03/21 04:39	05/04/21 10:18	1
Perfluorooctanoic acid (PFOA)	3.2		2.1	ug/Kg	☆	05/03/21 04:39	05/04/21 10:18	1
Perfluorononanoic acid (PFNA)	<2.1		2.1	ug/Kg	☆	05/03/21 04:39	05/04/21 10:18	1
Perfluorodecanoic acid (PFDA)	5.8		2.1	ug/Kg	☆	05/03/21 04:39	05/04/21 10:18	1
Perfluoroundecanoic acid (PFUnA)	<2.1		2.1	ug/Kg	☆	05/03/21 04:39	05/04/21 10:18	1
Perfluorododecanoic acid (PFDoA)	<2.1		2.1	ug/Kg	☆	05/03/21 04:39	05/04/21 10:18	1
Perfluorotridecanoic acid (PFTriA)	<2.1		2.1	ug/Kg	☆	05/03/21 04:39	05/04/21 10:18	1
Perfluorotetradecanoic acid (PFTeA)	<2.1		2.1	ug/Kg	☆	05/03/21 04:39	05/04/21 10:18	1
Perfluorobutanesulfonic acid (PFBS)	<2.1		2.1	ug/Kg	☆	05/03/21 04:39	05/04/21 10:18	1
Perfluoropentanesulfonic acid (PFPeS)	<2.1		2.1	ug/Kg	☆	05/03/21 04:39	05/04/21 10:18	1
Perfluorohexanesulfonic acid (PFHxS)	<2.1		2.1	ug/Kg	☆	05/03/21 04:39	05/04/21 10:18	1
Perfluoroheptanesulfonic Acid (PFHpS)	<2.1		2.1	ug/Kg	☆	05/03/21 04:39	05/04/21 10:18	1
Perfluorooctanesulfonic acid (PFOS)	8.9	I	5.3	ug/Kg	☆	05/03/21 04:39	05/04/21 10:18	1
Perfluorononanesulfonic acid (PFNS)	<2.1		2.1	ug/Kg	☆	05/03/21 04:39	05/04/21 10:18	1
Perfluorodecanesulfonic acid (PFDS)	<2.1		2.1	ug/Kg	☆	05/03/21 04:39	05/04/21 10:18	1
Perfluorooctanesulfonamide (FOSA)	<2.1		2.1	ug/Kg	☆	05/03/21 04:39	05/04/21 10:18	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<21		21	ug/Kg	☆	05/03/21 04:39	05/04/21 10:18	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<21		21	ug/Kg	☆	05/03/21 04:39	05/04/21 10:18	1
4:2 FTS	<21		21	ug/Kg	☆	05/03/21 04:39	05/04/21 10:18	1
6:2 FTS	<21		21	ug/Kg	☆	05/03/21 04:39	05/04/21 10:18	1
8:2 FTS	<21		21	ug/Kg	☆	05/03/21 04:39	05/04/21 10:18	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.1		2.1	ug/Kg	☆	05/03/21 04:39	05/04/21 10:18	1
HFPO-DA (GenX)	<2.7		2.7	ug/Kg	☆	05/03/21 04:39	05/04/21 10:18	1
F-53B Major	<2.1		2.1	ug/Kg	☆	05/03/21 04:39	05/04/21 10:18	1
F-53B Minor	<2.1		2.1	ug/Kg	☆	05/03/21 04:39	05/04/21 10:18	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	10	*5-	25 - 150	05/03/21 04:39	05/04/21 10:18	1
13C5 PFPeA	47		25 - 150	05/03/21 04:39	05/04/21 10:18	1
13C2 PFHxA	74		25 - 150	05/03/21 04:39	05/04/21 10:18	1
13C4 PFHpA	79		25 - 150	05/03/21 04:39	05/04/21 10:18	1
13C4 PFOA	86		25 - 150	05/03/21 04:39	05/04/21 10:18	1
13C5 PFNA	86		25 - 150	05/03/21 04:39	05/04/21 10:18	1
13C2 PFDA	85		25 - 150	05/03/21 04:39	05/04/21 10:18	1
13C2 PFUnA	83		25 - 150	05/03/21 04:39	05/04/21 10:18	1
13C2 PFDoA	69		25 - 150	05/03/21 04:39	05/04/21 10:18	1
13C2 PFTeA	64		25 - 150	05/03/21 04:39	05/04/21 10:18	1
18O2 PFHxS	84		25 - 150	05/03/21 04:39	05/04/21 10:18	1
13C4 PFOS	120		25 - 150	05/03/21 04:39	05/04/21 10:18	1
13C8 FOSA	80		25 - 150	05/03/21 04:39	05/04/21 10:18	1
13C3 PFBS	60		25 - 150	05/03/21 04:39	05/04/21 10:18	1
d3-NMeFOSAA	73		25 - 150	05/03/21 04:39	05/04/21 10:18	1
d5-NEtFOSAA	61		25 - 150	05/03/21 04:39	05/04/21 10:18	1

Eurofins TestAmerica, Sacramento

Client Sample Results

Client: OHM Advisors
Project/Site: Walled Lake and Novi WWTP PFAS Sources

Job ID: 320-72932-1

Client Sample ID: P8

Date Collected: 04/23/21 11:46

Date Received: 04/27/21 10:00

Lab Sample ID: 320-72932-9

Matrix: Solid

Percent Solids: 9.0

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-6:2 FTS	149		25 - 150	05/03/21 04:39	05/04/21 10:18	1
M2-8:2 FTS	135		25 - 150	05/03/21 04:39	05/04/21 10:18	1
M2-4:2 FTS	105		25 - 150	05/03/21 04:39	05/04/21 10:18	1
13C3 HFPO-DA	76		25 - 150	05/03/21 04:39	05/04/21 10:18	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	91.0		0.1	%			05/03/21 14:26	1

Isotope Dilution Summary

Client: OHM Advisors
Project/Site: Walled Lake and Novi WWTP PFAS Sources

Job ID: 320-72932-1

Method: 537 (modified) - Fluorinated Alkyl Substances

Matrix: Solid

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	PFBA (25-150)	PFPeA (25-150)	PFHxA (25-150)	C4PFHA (25-150)	PFOA (25-150)	PFNA (25-150)	PFDA (25-150)	PFUnA (25-150)
320-72932-6	P5	50	60	73	79	79	77	80	75
320-72932-8	P7	32	59	69	81	82	79	82	75
320-72932-9	P8	10 *5-	47	74	79	86	86	85	83
LCS 320-485145/2-A	Lab Control Sample	85	92	91	96	94	95	96	99
MB 320-485145/1-A	Method Blank	86	90	93	97	97	97	93	95

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	PFDaA (25-150)	PFTDA (25-150)	PFHxS (25-150)	PFOS (25-150)	PFOSA (25-150)	C3PFBS (25-150)	d3NMFOS (25-150)	d5NEFOS (25-150)
320-72932-6	P5	59	39	73	77	74	66	72	73
320-72932-8	P7	54	41	78	82	75	64	83	61
320-72932-9	P8	69	64	84	120	80	60	73	61
LCS 320-485145/2-A	Lab Control Sample	103	94	86	89	102	87	112	118
MB 320-485145/1-A	Method Blank	96	94	89	97	101	88	111	131

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	M262FTS (25-150)	M282FTS (25-150)	M242FTS (25-150)	HFPODA (25-150)
320-72932-6	P5	141	140	116	74
320-72932-8	P7	149	152 *5+	101	79
320-72932-9	P8	149	135	105	76
LCS 320-485145/2-A	Lab Control Sample	93	92	106	97
MB 320-485145/1-A	Method Blank	105	102	96	92

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
PFDaA = 13C2 PFDaA
PFTDA = 13C2 PFTeDA
PFHxS = 18O2 PFHxS
PFOS = 13C4 PFOS
PFOSA = 13C8 FOSA
C3PFBS = 13C3 PFBS
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

Isotope Dilution Summary

Client: OHM Advisors

Job ID: 320-72932-1

Project/Site: Walled Lake and Novi WWTP PFAS Sources

Method: 537 (modified) - Fluorinated Alkyl Substances

Matrix: Water

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	PFBA (25-150)	PFPeA (25-150)	PFHxA (25-150)	C4PFHA (25-150)	PFOA (25-150)	PFNA (25-150)	PFDA (25-150)	PFUnA (25-150)
320-72932-1	P1-2	58	74	81	84	84	76	45	34
320-72932-2	P2	71	91	98	102	102	95	92	101
320-72932-3	P3	77	88	71	97	93	102	94	92
320-72932-4	P3 FIELD BLANK	96	108	97	98	98	99	101	106
320-72932-5	P4	52	53	81	95	94	98	82	44
320-72932-5 - RE	P4								
320-72932-7	P6	35	49	54	89	91	93	79	45
320-72932-7 - RE	P6								
LCS 320-485560/2-A	Lab Control Sample	92	105	96	103	99	101	100	107
LCS 320-487507/2-A	Lab Control Sample								
LCSD 320-485560/15-A	Lab Control Sample Dup	93	96	91	99	98	102	91	100
LCSD 320-487507/3-A	Lab Control Sample Dup								
MB 320-485560/1-A	Method Blank	94	105	92	97	104	108	95	106
MB 320-487507/1-A	Method Blank								

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	PFDoA (25-150)	PFTDA (25-150)	PFHxS (25-150)	PFOS (25-150)	PFOSA (25-150)	C3PFBS (25-150)	d3NMFOs (25-150)	d5NEFOs (25-150)
320-72932-1	P1-2	21 *5-	25	89	73	43	83	31	18 *5-
320-72932-2	P2	82	58	99	102	100	93	92	93
320-72932-3	P3	71	55	105	99	94	98	87	92
320-72932-4	P3 FIELD BLANK	99	97	102	101	105	94	95	109
320-72932-5	P4	21 *5-	8 *5-	132	86	69	115	46	48
320-72932-5 - RE	P4		27						
320-72932-7	P6	20 *5-	7 *5-	123	94	57	101	46	44
320-72932-7 - RE	P6		29						
LCS 320-485560/2-A	Lab Control Sample	100	93	106	107	107	97	101	104
LCS 320-487507/2-A	Lab Control Sample		110						
LCSD 320-485560/15-A	Lab Control Sample Dup	92	97	102	99	103	95	94	100
LCSD 320-487507/3-A	Lab Control Sample Dup		104						
MB 320-485560/1-A	Method Blank	100	93	106	109	107	103	106	114
MB 320-487507/1-A	Method Blank		107						

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	M262FTS (25-150)	M282FTS (25-150)	M242FTS (25-150)	HFPODA (25-150)
320-72932-1	P1-2	169 *5+	62	190 *5+	70
320-72932-2	P2	152 *5+	106	180 *5+	84
320-72932-3	P3	150	133	200 *5+	87
320-72932-4	P3 FIELD BLANK	113	114	118	87
320-72932-5	P4	240 *5+	173 *5+	218 *5+	84
320-72932-5 - RE	P4				
320-72932-7	P6	284 *5+	175 *5+	204 *5+	81
320-72932-7 - RE	P6				
LCS 320-485560/2-A	Lab Control Sample	104	103	104	85
LCS 320-487507/2-A	Lab Control Sample				
LCSD 320-485560/15-A	Lab Control Sample Dup	94	102	109	85
LCSD 320-487507/3-A	Lab Control Sample Dup				
MB 320-485560/1-A	Method Blank	120	109	112	91
MB 320-487507/1-A	Method Blank				

Surrogate Legend

Eurofins TestAmerica, Sacramento

Isotope Dilution Summary

Client: OHM Advisors

Job ID: 320-72932-1

Project/Site: Walled Lake and Novi WWTP PFAS Sources

PFBA = 13C4 PFBA
PFPeA = 13C5 PFPeA
PFHxA = 13C2 PFHxA
C4PFHA = 13C4 PFHpA
PFOA = 13C4 PFOA
PFNA = 13C5 PFNA
PFDA = 13C2 PFDA
PFUnA = 13C2 PFUnA
PFDaA = 13C2 PFDaA
PFTDA = 13C2 PFTeDA
PFHxS = 18O2 PFHxS
PFOS = 13C4 PFOS
PFOSA = 13C8 FOSA
C3PFBS = 13C3 PFBS
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

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QC Sample Results

Client: OHM Advisors
Project/Site: Walled Lake and Novi WWTP PFAS Sources

Job ID: 320-72932-1

Method: 537 (modified) - Fluorinated Alkyl Substances

Lab Sample ID: MB 320-485145/1-A

Matrix: Solid

Analysis Batch: 485809

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 485145

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<0.20		0.20	ug/Kg		05/03/21 04:39	05/04/21 09:41	1
Perfluoropentanoic acid (PFPeA)	<0.20		0.20	ug/Kg		05/03/21 04:39	05/04/21 09:41	1
Perfluorohexanoic acid (PFHxA)	<0.20		0.20	ug/Kg		05/03/21 04:39	05/04/21 09:41	1
Perfluoroheptanoic acid (PFHpA)	<0.20		0.20	ug/Kg		05/03/21 04:39	05/04/21 09:41	1
Perfluorooctanoic acid (PFOA)	<0.20		0.20	ug/Kg		05/03/21 04:39	05/04/21 09:41	1
Perfluorononanoic acid (PFNA)	<0.20		0.20	ug/Kg		05/03/21 04:39	05/04/21 09:41	1
Perfluorodecanoic acid (PFDA)	<0.20		0.20	ug/Kg		05/03/21 04:39	05/04/21 09:41	1
Perfluoroundecanoic acid (PFUnA)	<0.20		0.20	ug/Kg		05/03/21 04:39	05/04/21 09:41	1
Perfluorododecanoic acid (PFDoA)	<0.20		0.20	ug/Kg		05/03/21 04:39	05/04/21 09:41	1
Perfluorotridecanoic acid (PFTriA)	<0.20		0.20	ug/Kg		05/03/21 04:39	05/04/21 09:41	1
Perfluorotetradecanoic acid (PFTeA)	<0.20		0.20	ug/Kg		05/03/21 04:39	05/04/21 09:41	1
Perfluorobutanesulfonic acid (PFBS)	<0.20		0.20	ug/Kg		05/03/21 04:39	05/04/21 09:41	1
Perfluoropentanesulfonic acid (PFPeS)	<0.20		0.20	ug/Kg		05/03/21 04:39	05/04/21 09:41	1
Perfluorohexanesulfonic acid (PFHxS)	<0.20		0.20	ug/Kg		05/03/21 04:39	05/04/21 09:41	1
Perfluoroheptanesulfonic Acid (PFHpS)	<0.20		0.20	ug/Kg		05/03/21 04:39	05/04/21 09:41	1
Perfluorooctanesulfonic acid (PFOS)	<0.50		0.50	ug/Kg		05/03/21 04:39	05/04/21 09:41	1
Perfluorononanesulfonic acid (PFNS)	<0.20		0.20	ug/Kg		05/03/21 04:39	05/04/21 09:41	1
Perfluorodecanesulfonic acid (PFDS)	<0.20		0.20	ug/Kg		05/03/21 04:39	05/04/21 09:41	1
Perfluorooctanesulfonamide (FOSA)	<0.20		0.20	ug/Kg		05/03/21 04:39	05/04/21 09:41	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		2.0	ug/Kg		05/03/21 04:39	05/04/21 09:41	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		2.0	ug/Kg		05/03/21 04:39	05/04/21 09:41	1
4:2 FTS	<2.0		2.0	ug/Kg		05/03/21 04:39	05/04/21 09:41	1
6:2 FTS	<2.0		2.0	ug/Kg		05/03/21 04:39	05/04/21 09:41	1
8:2 FTS	<2.0		2.0	ug/Kg		05/03/21 04:39	05/04/21 09:41	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.20		0.20	ug/Kg		05/03/21 04:39	05/04/21 09:41	1
HFPO-DA (GenX)	<0.25		0.25	ug/Kg		05/03/21 04:39	05/04/21 09:41	1
F-53B Major	<0.20		0.20	ug/Kg		05/03/21 04:39	05/04/21 09:41	1
F-53B Minor	<0.20		0.20	ug/Kg		05/03/21 04:39	05/04/21 09:41	1

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	86		25 - 150	05/03/21 04:39	05/04/21 09:41	1
13C5 PFPeA	90		25 - 150	05/03/21 04:39	05/04/21 09:41	1
13C2 PFHxA	93		25 - 150	05/03/21 04:39	05/04/21 09:41	1
13C4 PFHpA	97		25 - 150	05/03/21 04:39	05/04/21 09:41	1
13C4 PFOA	97		25 - 150	05/03/21 04:39	05/04/21 09:41	1
13C5 PFNA	97		25 - 150	05/03/21 04:39	05/04/21 09:41	1
13C2 PFDA	93		25 - 150	05/03/21 04:39	05/04/21 09:41	1
13C2 PFUnA	95		25 - 150	05/03/21 04:39	05/04/21 09:41	1
13C2 PFDoA	96		25 - 150	05/03/21 04:39	05/04/21 09:41	1
13C2 PFTeA	94		25 - 150	05/03/21 04:39	05/04/21 09:41	1
18O2 PFHxS	89		25 - 150	05/03/21 04:39	05/04/21 09:41	1
13C4 PFOS	97		25 - 150	05/03/21 04:39	05/04/21 09:41	1
13C8 FOSA	101		25 - 150	05/03/21 04:39	05/04/21 09:41	1
13C3 PFBS	88		25 - 150	05/03/21 04:39	05/04/21 09:41	1
d3-NMeFOSAA	111		25 - 150	05/03/21 04:39	05/04/21 09:41	1

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QC Sample Results

Client: OHM Advisors
Project/Site: Walled Lake and Novi WWTP PFAS Sources

Job ID: 320-72932-1

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

Lab Sample ID: MB 320-485145/1-A

Matrix: Solid

Analysis Batch: 485809

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 485145

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	131		25 - 150	05/03/21 04:39	05/04/21 09:41	1
M2-6:2 FTS	105		25 - 150	05/03/21 04:39	05/04/21 09:41	1
M2-8:2 FTS	102		25 - 150	05/03/21 04:39	05/04/21 09:41	1
M2-4:2 FTS	96		25 - 150	05/03/21 04:39	05/04/21 09:41	1
13C3 HFPO-DA	92		25 - 150	05/03/21 04:39	05/04/21 09:41	1

Lab Sample ID: LCS 320-485145/2-A

Matrix: Solid

Analysis Batch: 485809

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 485145

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorobutanoic acid (PFBA)	2.00	2.15		ug/Kg		107	76 - 136
Perfluoropentanoic acid (PFPeA)	2.00	2.09		ug/Kg		105	69 - 129
Perfluorohexanoic acid (PFHxA)	2.00	2.04		ug/Kg		102	71 - 131
Perfluoroheptanoic acid (PFHpA)	2.00	2.09		ug/Kg		105	71 - 131
Perfluorooctanoic acid (PFOA)	2.00	2.07		ug/Kg		103	72 - 132
Perfluorononanoic acid (PFNA)	2.00	2.12		ug/Kg		106	73 - 133
Perfluorodecanoic acid (PFDA)	2.00	1.96		ug/Kg		98	72 - 132
Perfluoroundecanoic acid (PFUnA)	2.00	1.94		ug/Kg		97	66 - 126
Perfluorododecanoic acid (PFDoA)	2.00	2.23		ug/Kg		111	71 - 131
Perfluorotridecanoic acid (PFTriA)	2.00	2.08		ug/Kg		104	71 - 131
Perfluorotetradecanoic acid (PFTeA)	2.00	2.05		ug/Kg		102	67 - 127
Perfluorobutanesulfonic acid (PFBS)	1.77	1.82		ug/Kg		103	69 - 129
Perfluoropentanesulfonic acid (PFPeS)	1.88	2.02		ug/Kg		108	66 - 126
Perfluorohexanesulfonic acid (PFHxS)	1.82	1.87		ug/Kg		103	62 - 122
Perfluoroheptanesulfonic Acid (PFHpS)	1.90	2.06		ug/Kg		108	76 - 136
Perfluorooctanesulfonic acid (PFOS)	1.86	1.87		ug/Kg		101	68 - 141
Perfluorononanesulfonic acid (PFNS)	1.92	1.93		ug/Kg		101	72 - 132
Perfluorodecanesulfonic acid (PFDS)	1.93	2.01		ug/Kg		104	71 - 131
Perfluorooctanesulfonamide (FOSA)	2.00	2.30		ug/Kg		115	77 - 137
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.00	2.15		ug/Kg		108	72 - 132
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.00	2.24		ug/Kg		112	72 - 132
4:2 FTS	1.87	1.74	J	ug/Kg		93	68 - 143
6:2 FTS	1.90	1.95	J	ug/Kg		103	73 - 139
8:2 FTS	1.92	2.10		ug/Kg		109	75 - 135
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.88	2.23		ug/Kg		118	79 - 139
HFPO-DA (GenX)	2.00	2.00		ug/Kg		100	53 - 158
F-53B Major	1.86	2.00		ug/Kg		107	74 - 134

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QC Sample Results

Client: OHM Advisors
Project/Site: Walled Lake and Novi WWTP PFAS Sources

Job ID: 320-72932-1

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

Lab Sample ID: LCS 320-485145/2-A

Matrix: Solid

Analysis Batch: 485809

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 485145

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
F-53B Minor	1.88	2.01		ug/Kg		107	66 - 136

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C4 PFBA	85		25 - 150
13C5 PFPeA	92		25 - 150
13C2 PFHxA	91		25 - 150
13C4 PFHpA	96		25 - 150
13C4 PFOA	94		25 - 150
13C5 PFNA	95		25 - 150
13C2 PFDA	96		25 - 150
13C2 PFUnA	99		25 - 150
13C2 PFDoA	103		25 - 150
13C2 PFTeDA	94		25 - 150
18O2 PFHxS	86		25 - 150
13C4 PFOS	89		25 - 150
13C8 FOSA	102		25 - 150
13C3 PFBS	87		25 - 150
d3-NMeFOSAA	112		25 - 150
d5-NEtFOSAA	118		25 - 150
M2-6:2 FTS	93		25 - 150
M2-8:2 FTS	92		25 - 150
M2-4:2 FTS	106		25 - 150
13C3 HFPO-DA	97		25 - 150

Lab Sample ID: MB 320-485560/1-A

Matrix: Water

Analysis Batch: 486694

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 485560

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<5.0		5.0	ng/L		05/04/21 04:48	05/06/21 04:54	1
Perfluoropentanoic acid (PFPeA)	<2.0		2.0	ng/L		05/04/21 04:48	05/06/21 04:54	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		05/04/21 04:48	05/06/21 04:54	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		05/04/21 04:48	05/06/21 04:54	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		05/04/21 04:48	05/06/21 04:54	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		05/04/21 04:48	05/06/21 04:54	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		05/04/21 04:48	05/06/21 04:54	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		05/04/21 04:48	05/06/21 04:54	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		05/04/21 04:48	05/06/21 04:54	1
Perfluorotridecanoic acid (PFTriA)	<2.0		2.0	ng/L		05/04/21 04:48	05/06/21 04:54	1
Perfluorotetradecanoic acid (PFTeA)	<2.0		2.0	ng/L		05/04/21 04:48	05/06/21 04:54	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		05/04/21 04:48	05/06/21 04:54	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		05/04/21 04:48	05/06/21 04:54	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		05/04/21 04:48	05/06/21 04:54	1
Perfluoroheptanesulfonic Acid (PFHpS)	<2.0		2.0	ng/L		05/04/21 04:48	05/06/21 04:54	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		05/04/21 04:48	05/06/21 04:54	1
Perfluorononanesulfonic acid (PFNS)	<2.0		2.0	ng/L		05/04/21 04:48	05/06/21 04:54	1
Perfluorodecanesulfonic acid (PFDS)	<2.0		2.0	ng/L		05/04/21 04:48	05/06/21 04:54	1

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QC Sample Results

Client: OHM Advisors
Project/Site: Walled Lake and Novi WWTP PFAS Sources

Job ID: 320-72932-1

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

Lab Sample ID: MB 320-485560/1-A

Matrix: Water

Analysis Batch: 486694

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 485560

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonamide (FOSA)	<2.0		2.0	ng/L		05/04/21 04:48	05/06/21 04:54	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<5.0		5.0	ng/L		05/04/21 04:48	05/06/21 04:54	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<5.0		5.0	ng/L		05/04/21 04:48	05/06/21 04:54	1
4:2 FTS	<2.0		2.0	ng/L		05/04/21 04:48	05/06/21 04:54	1
6:2 FTS	<5.0		5.0	ng/L		05/04/21 04:48	05/06/21 04:54	1
8:2 FTS	<2.0		2.0	ng/L		05/04/21 04:48	05/06/21 04:54	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		05/04/21 04:48	05/06/21 04:54	1
HFPO-DA (GenX)	<4.0		4.0	ng/L		05/04/21 04:48	05/06/21 04:54	1
F-53B Major	<2.0		2.0	ng/L		05/04/21 04:48	05/06/21 04:54	1
F-53B Minor	<2.0		2.0	ng/L		05/04/21 04:48	05/06/21 04:54	1

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	94		25 - 150	05/04/21 04:48	05/06/21 04:54	1
13C5 PFPeA	105		25 - 150	05/04/21 04:48	05/06/21 04:54	1
13C2 PFHxA	92		25 - 150	05/04/21 04:48	05/06/21 04:54	1
13C4 PFHpA	97		25 - 150	05/04/21 04:48	05/06/21 04:54	1
13C4 PFOA	104		25 - 150	05/04/21 04:48	05/06/21 04:54	1
13C5 PFNA	108		25 - 150	05/04/21 04:48	05/06/21 04:54	1
13C2 PFDA	95		25 - 150	05/04/21 04:48	05/06/21 04:54	1
13C2 PFUnA	106		25 - 150	05/04/21 04:48	05/06/21 04:54	1
13C2 PFDoA	100		25 - 150	05/04/21 04:48	05/06/21 04:54	1
13C2 PFTeDA	93		25 - 150	05/04/21 04:48	05/06/21 04:54	1
18O2 PFHxS	106		25 - 150	05/04/21 04:48	05/06/21 04:54	1
13C4 PFOS	109		25 - 150	05/04/21 04:48	05/06/21 04:54	1
13C8 FOSA	107		25 - 150	05/04/21 04:48	05/06/21 04:54	1
13C3 PFBS	103		25 - 150	05/04/21 04:48	05/06/21 04:54	1
d3-NMeFOSAA	106		25 - 150	05/04/21 04:48	05/06/21 04:54	1
d5-NEtFOSAA	114		25 - 150	05/04/21 04:48	05/06/21 04:54	1
M2-6:2 FTS	120		25 - 150	05/04/21 04:48	05/06/21 04:54	1
M2-8:2 FTS	109		25 - 150	05/04/21 04:48	05/06/21 04:54	1
M2-4:2 FTS	112		25 - 150	05/04/21 04:48	05/06/21 04:54	1
13C3 HFPO-DA	91		25 - 150	05/04/21 04:48	05/06/21 04:54	1

Lab Sample ID: LCS 320-485560/2-A

Matrix: Water

Analysis Batch: 486694

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 485560

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorobutanoic acid (PFBA)	40.0	42.3		ng/L		106	76 - 136
Perfluoropentanoic acid (PFPeA)	40.0	40.2		ng/L		101	71 - 131
Perfluorohexanoic acid (PFHxA)	40.0	44.0		ng/L		110	73 - 133
Perfluoroheptanoic acid (PFHpA)	40.0	43.1		ng/L		108	72 - 132
Perfluorooctanoic acid (PFOA)	40.0	43.2		ng/L		108	70 - 130
Perfluorononanoic acid (PFNA)	40.0	42.4		ng/L		106	75 - 135
Perfluorodecanoic acid (PFDA)	40.0	37.7		ng/L		94	76 - 136
Perfluoroundecanoic acid (PFUnA)	40.0	37.7		ng/L		94	68 - 128

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QC Sample Results

Client: OHM Advisors
Project/Site: Walled Lake and Novi WWTP PFAS Sources

Job ID: 320-72932-1

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

Lab Sample ID: LCS 320-485560/2-A

Matrix: Water

Analysis Batch: 486694

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 485560

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorododecanoic acid (PFDoA)	40.0	44.0		ng/L		110	71 - 131
Perfluorotridecanoic acid (PFTriA)	40.0	40.4		ng/L		101	71 - 131
Perfluorotetradecanoic acid (PFTeA)	40.0	42.6		ng/L		106	70 - 130
Perfluorobutanesulfonic acid (PFBS)	35.4	37.9		ng/L		107	67 - 127
Perfluoropentanesulfonic acid (PFPeS)	37.5	44.5		ng/L		119	66 - 126
Perfluorohexanesulfonic acid (PFHxS)	36.4	35.4		ng/L		97	59 - 119
Perfluoroheptanesulfonic Acid (PFHpS)	38.1	40.3		ng/L		106	76 - 136
Perfluorooctanesulfonic acid (PFOS)	37.1	39.7		ng/L		107	70 - 130
Perfluorononanesulfonic acid (PFNS)	38.4	39.8		ng/L		104	75 - 135
Perfluorodecanesulfonic acid (PFDS)	38.6	41.4		ng/L		107	71 - 131
Perfluorooctanesulfonamide (FOSA)	40.0	42.7		ng/L		107	73 - 133
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	46.4		ng/L		116	76 - 136
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	40.0	37.8		ng/L		95	76 - 136
4:2 FTS	37.4	38.4		ng/L		103	79 - 139
6:2 FTS	37.9	40.4		ng/L		107	59 - 175
8:2 FTS	38.3	41.7		ng/L		109	75 - 135
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	37.7	37.1		ng/L		99	79 - 139
HFPO-DA (GenX)	40.0	44.9		ng/L		112	51 - 173
F-53B Major	37.3	36.0		ng/L		97	75 - 135
F-53B Minor	37.7	37.2		ng/L		99	54 - 114

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C4 PFBA	92		25 - 150
13C5 PFPeA	105		25 - 150
13C2 PFHxA	96		25 - 150
13C4 PFHpA	103		25 - 150
13C4 PFOA	99		25 - 150
13C5 PFNA	101		25 - 150
13C2 PFDA	100		25 - 150
13C2 PFUnA	107		25 - 150
13C2 PFDoA	100		25 - 150
13C2 PFTeDA	93		25 - 150
18O2 PFHxS	106		25 - 150
13C4 PFOS	107		25 - 150
13C8 FOSA	107		25 - 150
13C3 PFBS	97		25 - 150
d3-NMeFOSAA	101		25 - 150
d5-NEtFOSAA	104		25 - 150

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QC Sample Results

Client: OHM Advisors
Project/Site: Walled Lake and Novi WWTP PFAS Sources

Job ID: 320-72932-1

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

Lab Sample ID: LCS 320-485560/2-A

Matrix: Water

Analysis Batch: 486694

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 485560

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
M2-6:2 FTS	104		25 - 150
M2-8:2 FTS	103		25 - 150
M2-4:2 FTS	104		25 - 150
13C3 HFPO-DA	85		25 - 150

Lab Sample ID: LCSD 320-485560/15-A

Matrix: Water

Analysis Batch: 486694

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 485560

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorobutanoic acid (PFBA)	40.0	41.3		ng/L		103	76 - 136	3	30
Perfluoropentanoic acid (PFPeA)	40.0	42.9		ng/L		107	71 - 131	6	30
Perfluorohexanoic acid (PFHxA)	40.0	45.1		ng/L		113	73 - 133	2	30
Perfluoroheptanoic acid (PFHpA)	40.0	41.7		ng/L		104	72 - 132	3	30
Perfluorooctanoic acid (PFOA)	40.0	40.3		ng/L		101	70 - 130	7	30
Perfluorononanoic acid (PFNA)	40.0	39.8		ng/L		100	75 - 135	6	30
Perfluorodecanoic acid (PFDA)	40.0	43.9		ng/L		110	76 - 136	15	30
Perfluoroundecanoic acid (PFUnA)	40.0	38.0		ng/L		95	68 - 128	1	30
Perfluorododecanoic acid (PFDoA)	40.0	43.1		ng/L		108	71 - 131	2	30
Perfluorotridecanoic acid (PFTriA)	40.0	43.6		ng/L		109	71 - 131	8	30
Perfluorotetradecanoic acid (PFTeA)	40.0	41.0		ng/L		102	70 - 130	4	30
Perfluorobutanesulfonic acid (PFBS)	35.4	37.2		ng/L		105	67 - 127	2	30
Perfluoropentanesulfonic acid (PFPeS)	37.5	42.6		ng/L		113	66 - 126	5	30
Perfluorohexanesulfonic acid (PFHxS)	36.4	35.1		ng/L		96	59 - 119	1	30
Perfluoroheptanesulfonic Acid (PFHpS)	38.1	43.1		ng/L		113	76 - 136	7	30
Perfluorooctanesulfonic acid (PFOS)	37.1	38.9		ng/L		105	70 - 130	2	30
Perfluorononanesulfonic acid (PFNS)	38.4	39.9		ng/L		104	75 - 135	0	30
Perfluorodecanesulfonic acid (PFDS)	38.6	42.9		ng/L		111	71 - 131	3	30
Perfluorooctanesulfonamide (FOSA)	40.0	41.3		ng/L		103	73 - 133	3	30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	48.6		ng/L		121	76 - 136	5	30
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	40.0	39.9		ng/L		100	76 - 136	5	30
4:2 FTS	37.4	35.3		ng/L		95	79 - 139	8	30
6:2 FTS	37.9	39.7		ng/L		105	59 - 175	2	30
8:2 FTS	38.3	40.2		ng/L		105	75 - 135	4	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	37.7	40.2		ng/L		107	79 - 139	8	30
HFPO-DA (GenX)	40.0	43.3		ng/L		108	51 - 173	4	30
F-53B Major	37.3	38.0		ng/L		102	75 - 135	5	30
F-53B Minor	37.7	38.8		ng/L		103	54 - 114	4	30

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QC Sample Results

Client: OHM Advisors
Project/Site: Walled Lake and Novi WWTP PFAS Sources

Job ID: 320-72932-1

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

<i>Isotope Dilution</i>	<i>LCSD %Recovery</i>	<i>LCSD Qualifier</i>	<i>Limits</i>
13C4 PFBA	93		25 - 150
13C5 PFPeA	96		25 - 150
13C2 PFHxA	91		25 - 150
13C4 PFHpA	99		25 - 150
13C4 PFOA	98		25 - 150
13C5 PFNA	102		25 - 150
13C2 PFDA	91		25 - 150
13C2 PFUnA	100		25 - 150
13C2 PFDoA	92		25 - 150
13C2 PFTeDA	97		25 - 150
18O2 PFHxS	102		25 - 150
13C4 PFOS	99		25 - 150
13C8 FOSA	103		25 - 150
13C3 PFBS	95		25 - 150
d3-NMeFOSAA	94		25 - 150
d5-NEtFOSAA	100		25 - 150
M2-6:2 FTS	94		25 - 150
M2-8:2 FTS	102		25 - 150
M2-4:2 FTS	109		25 - 150
13C3 HFPO-DA	85		25 - 150

Lab Sample ID: MB 320-487507/1-A

Matrix: Water

Analysis Batch: 487481

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 487507

<i>Analyte</i>	<i>MB Result</i>	<i>MB Qualifier</i>	<i>RL</i>	<i>Unit</i>	<i>D</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Perfluorotetradecanoic acid (PFTeA)	<2.0		2.0	ng/L		05/10/21 05:30	05/10/21 14:52	1
<i>Isotope Dilution</i>	<i>MB %Recovery</i>	<i>MB Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C2 PFTeDA	107		25 - 150			05/10/21 05:30	05/10/21 14:52	1

Lab Sample ID: LCS 320-487507/2-A

Matrix: Water

Analysis Batch: 487481

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 487507

<i>Analyte</i>	<i>Spike Added</i>	<i>LCS Result</i>	<i>LCS Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec. Limits</i>
Perfluorotetradecanoic acid (PFTeA)	40.0	40.2		ng/L		101	70 - 130
<i>Isotope Dilution</i>	<i>LCS %Recovery</i>	<i>LCS Qualifier</i>	<i>Limits</i>				
13C2 PFTeDA	110		25 - 150				

Lab Sample ID: LCSD 320-487507/3-A

Matrix: Water

Analysis Batch: 487481

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 487507

<i>Analyte</i>	<i>Spike Added</i>	<i>LCSD Result</i>	<i>LCSD Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec. Limits</i>	<i>RPD</i>	<i>RPD Limit</i>
Perfluorotetradecanoic acid (PFTeA)	40.0	44.7		ng/L		112	70 - 130	10	30
<i>Isotope Dilution</i>	<i>LCSD %Recovery</i>	<i>LCSD Qualifier</i>	<i>Limits</i>						
13C2 PFTeDA	104		25 - 150						

Eurofins TestAmerica, Sacramento

QC Association Summary

Client: OHM Advisors
Project/Site: Walled Lake and Novi WWTP PFAS Sources

Job ID: 320-72932-1

LCMS

Prep Batch: 485145

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-72932-6	P5	Total/NA	Solid	SHAKE	
320-72932-8	P7	Total/NA	Solid	SHAKE	
320-72932-9	P8	Total/NA	Solid	SHAKE	
MB 320-485145/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 320-485145/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

Prep Batch: 485560

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-72932-1	P1-2	Total/NA	Water	3535	
320-72932-2	P2	Total/NA	Water	3535	
320-72932-3	P3	Total/NA	Water	3535	
320-72932-4	P3 FIELD BLANK	Total/NA	Water	3535	
320-72932-5	P4	Total/NA	Water	3535	
320-72932-7	P6	Total/NA	Water	3535	
MB 320-485560/1-A	Method Blank	Total/NA	Water	3535	
LCS 320-485560/2-A	Lab Control Sample	Total/NA	Water	3535	
LCSD 320-485560/15-A	Lab Control Sample Dup	Total/NA	Water	3535	

Analysis Batch: 485809

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-72932-6	P5	Total/NA	Solid	537 (modified)	485145
320-72932-8	P7	Total/NA	Solid	537 (modified)	485145
320-72932-9	P8	Total/NA	Solid	537 (modified)	485145
MB 320-485145/1-A	Method Blank	Total/NA	Solid	537 (modified)	485145
LCS 320-485145/2-A	Lab Control Sample	Total/NA	Solid	537 (modified)	485145

Analysis Batch: 486694

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-72932-1	P1-2	Total/NA	Water	537 (modified)	485560
320-72932-2	P2	Total/NA	Water	537 (modified)	485560
320-72932-3	P3	Total/NA	Water	537 (modified)	485560
320-72932-4	P3 FIELD BLANK	Total/NA	Water	537 (modified)	485560
320-72932-5	P4	Total/NA	Water	537 (modified)	485560
320-72932-7	P6	Total/NA	Water	537 (modified)	485560
MB 320-485560/1-A	Method Blank	Total/NA	Water	537 (modified)	485560
LCS 320-485560/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	485560
LCSD 320-485560/15-A	Lab Control Sample Dup	Total/NA	Water	537 (modified)	485560

Analysis Batch: 487481

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-72932-5 - RE	P4	Total/NA	Water	537 (modified)	487507
320-72932-7 - RE	P6	Total/NA	Water	537 (modified)	487507
MB 320-487507/1-A	Method Blank	Total/NA	Water	537 (modified)	487507
LCS 320-487507/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	487507
LCSD 320-487507/3-A	Lab Control Sample Dup	Total/NA	Water	537 (modified)	487507

Prep Batch: 487507

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-72932-5 - RE	P4	Total/NA	Water	3535	
320-72932-7 - RE	P6	Total/NA	Water	3535	
MB 320-487507/1-A	Method Blank	Total/NA	Water	3535	

Eurofins TestAmerica, Sacramento

QC Association Summary

Client: OHM Advisors
Project/Site: Walled Lake and Novi WWTP PFAS Sources

Job ID: 320-72932-1

LCMS (Continued)

Prep Batch: 487507 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 320-487507/2-A	Lab Control Sample	Total/NA	Water	3535	
LCSD 320-487507/3-A	Lab Control Sample Dup	Total/NA	Water	3535	

General Chemistry

Analysis Batch: 485406

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-72932-6	P5	Total/NA	Solid	D 2216	
320-72932-8	P7	Total/NA	Solid	D 2216	
320-72932-9	P8	Total/NA	Solid	D 2216	

Lab Chronicle

Client: OHM Advisors
Project/Site: Walled Lake and Novi WWTP PFAS Sources

Job ID: 320-72932-1

Client Sample ID: P1-2

Date Collected: 04/23/21 10:18

Date Received: 04/27/21 10:00

Lab Sample ID: 320-72932-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			255.6 mL	10.0 mL	485560	05/04/21 04:48	EG	TAL SAC
Total/NA	Analysis	537 (modified)		1			486694	05/06/21 05:22	K1S	TAL SAC

Client Sample ID: P2

Date Collected: 04/23/21 10:32

Date Received: 04/27/21 10:00

Lab Sample ID: 320-72932-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			261.9 mL	10.0 mL	485560	05/04/21 04:48	EG	TAL SAC
Total/NA	Analysis	537 (modified)		1			486694	05/06/21 05:31	K1S	TAL SAC

Client Sample ID: P3

Date Collected: 04/23/21 10:47

Date Received: 04/27/21 10:00

Lab Sample ID: 320-72932-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			248.8 mL	10.0 mL	485560	05/04/21 04:48	EG	TAL SAC
Total/NA	Analysis	537 (modified)		1			486694	05/06/21 05:40	K1S	TAL SAC

Client Sample ID: P3 FIELD BLANK

Date Collected: 04/23/21 10:44

Date Received: 04/27/21 10:00

Lab Sample ID: 320-72932-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			263.8 mL	10.0 mL	485560	05/04/21 04:48	EG	TAL SAC
Total/NA	Analysis	537 (modified)		1			486694	05/06/21 05:49	K1S	TAL SAC

Client Sample ID: P4

Date Collected: 04/23/21 11:10

Date Received: 04/27/21 10:00

Lab Sample ID: 320-72932-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			257.6 mL	10.0 mL	485560	05/04/21 04:48	EG	TAL SAC
Total/NA	Analysis	537 (modified)		1			486694	05/06/21 05:58	K1S	TAL SAC
Total/NA	Prep	3535	RE		25.0 mL	10.0 mL	487507	05/10/21 05:30	EG	TAL SAC
Total/NA	Analysis	537 (modified)	RE	1			487481	05/10/21 15:21	S1M	TAL SAC

Client Sample ID: P5

Date Collected: 04/23/21 11:10

Date Received: 04/27/21 10:00

Lab Sample ID: 320-72932-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1			485406	05/03/21 14:26	TCS	TAL SAC

Eurofins TestAmerica, Sacramento

Lab Chronicle

Client: OHM Advisors
Project/Site: Walled Lake and Novi WWTP PFAS Sources

Job ID: 320-72932-1

Client Sample ID: P5

Date Collected: 04/23/21 11:10

Date Received: 04/27/21 10:00

Lab Sample ID: 320-72932-6

Matrix: Solid

Percent Solids: 8.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SHAKE			5.26 g	10.00 mL	485145	05/03/21 04:39	HK	TAL SAC
Total/NA	Analysis	537 (modified)		1			485809	05/04/21 09:59	RS1	TAL SAC

Client Sample ID: P6

Date Collected: 04/23/21 11:22

Date Received: 04/27/21 10:00

Lab Sample ID: 320-72932-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			265.2 mL	10.0 mL	485560	05/04/21 04:48	EG	TAL SAC
Total/NA	Analysis	537 (modified)		1			486694	05/06/21 06:07	K1S	TAL SAC
Total/NA	Prep	3535	RE		25.0 mL	10.0 mL	487507	05/10/21 05:30	EG	TAL SAC
Total/NA	Analysis	537 (modified)	RE	1			487481	05/10/21 15:30	S1M	TAL SAC

Client Sample ID: P7

Date Collected: 04/23/21 11:22

Date Received: 04/27/21 10:00

Lab Sample ID: 320-72932-8

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1			485406	05/03/21 14:26	TCS	TAL SAC

Client Sample ID: P7

Date Collected: 04/23/21 11:22

Date Received: 04/27/21 10:00

Lab Sample ID: 320-72932-8

Matrix: Solid

Percent Solids: 9.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SHAKE			5.24 g	10.00 mL	485145	05/03/21 04:39	HK	TAL SAC
Total/NA	Analysis	537 (modified)		1			485809	05/04/21 10:08	RS1	TAL SAC

Client Sample ID: P8

Date Collected: 04/23/21 11:46

Date Received: 04/27/21 10:00

Lab Sample ID: 320-72932-9

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1			485406	05/03/21 14:26	TCS	TAL SAC

Client Sample ID: P8

Date Collected: 04/23/21 11:46

Date Received: 04/27/21 10:00

Lab Sample ID: 320-72932-9

Matrix: Solid

Percent Solids: 9.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SHAKE			5.22 g	10.00 mL	485145	05/03/21 04:39	HK	TAL SAC
Total/NA	Analysis	537 (modified)		1			485809	05/04/21 10:18	RS1	TAL SAC

Laboratory References:

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

Eurofins TestAmerica, Sacramento

Accreditation/Certification Summary

Client: OHM Advisors
Project/Site: Walled Lake and Novi WWTP PFAS Sources

Job ID: 320-72932-1

Laboratory: Eurofins TestAmerica, Sacramento

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Michigan	State	9947	01-29-22
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
537 (modified)	3535	Water	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)
537 (modified)	3535	Water	4:2 FTS
537 (modified)	3535	Water	6:2 FTS
537 (modified)	3535	Water	8:2 FTS
537 (modified)	3535	Water	F-53B Major
537 (modified)	3535	Water	F-53B Minor
537 (modified)	3535	Water	HFPO-DA (GenX)
537 (modified)	3535	Water	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)
537 (modified)	3535	Water	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)
537 (modified)	3535	Water	Perfluorobutanesulfonic acid (PFBS)
537 (modified)	3535	Water	Perfluorobutanoic acid (PFBA)
537 (modified)	3535	Water	Perfluorodecanesulfonic acid (PFDS)
537 (modified)	3535	Water	Perfluorodecanoic acid (PFDA)
537 (modified)	3535	Water	Perfluorododecanoic acid (PFDoA)
537 (modified)	3535	Water	Perfluoroheptanesulfonic Acid (PFHpS)
537 (modified)	3535	Water	Perfluoroheptanoic acid (PFHpA)
537 (modified)	3535	Water	Perfluorohexanesulfonic acid (PFHxS)
537 (modified)	3535	Water	Perfluorohexanoic acid (PFHxA)
537 (modified)	3535	Water	Perfluorononanesulfonic acid (PFNS)
537 (modified)	3535	Water	Perfluorononanoic acid (PFNA)
537 (modified)	3535	Water	Perfluorooctanesulfonamide (FOSA)
537 (modified)	3535	Water	Perfluorooctanesulfonic acid (PFOS)
537 (modified)	3535	Water	Perfluorooctanoic acid (PFOA)
537 (modified)	3535	Water	Perfluoropentanesulfonic acid (PFPeS)
537 (modified)	3535	Water	Perfluoropentanoic acid (PFPeA)
537 (modified)	3535	Water	Perfluorotetradecanoic acid (PFTeA)
537 (modified)	3535	Water	Perfluorotridecanoic acid (PFTriA)
537 (modified)	3535	Water	Perfluoroundecanoic acid (PFUnA)
537 (modified)	SHAKE	Solid	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)
537 (modified)	SHAKE	Solid	4:2 FTS
537 (modified)	SHAKE	Solid	6:2 FTS
537 (modified)	SHAKE	Solid	8:2 FTS
537 (modified)	SHAKE	Solid	F-53B Major
537 (modified)	SHAKE	Solid	F-53B Minor
537 (modified)	SHAKE	Solid	HFPO-DA (GenX)
537 (modified)	SHAKE	Solid	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)
537 (modified)	SHAKE	Solid	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)
537 (modified)	SHAKE	Solid	Perfluorobutanesulfonic acid (PFBS)
537 (modified)	SHAKE	Solid	Perfluorobutanoic acid (PFBA)
537 (modified)	SHAKE	Solid	Perfluorodecanesulfonic acid (PFDS)
537 (modified)	SHAKE	Solid	Perfluorodecanoic acid (PFDA)

Eurofins TestAmerica, Sacramento

Accreditation/Certification Summary

Client: OHM Advisors

Job ID: 320-72932-1

Project/Site: Walled Lake and Novi WWTP PFAS Sources

Laboratory: Eurofins TestAmerica, Sacramento (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Michigan	State	9947	01-29-22
537 (modified)	SHAKE	Solid	Perfluorododecanoic acid (PFDoA)
537 (modified)	SHAKE	Solid	Perfluoroheptanesulfonic Acid (PFHpS)
537 (modified)	SHAKE	Solid	Perfluoroheptanoic acid (PFHpA)
537 (modified)	SHAKE	Solid	Perfluorohexanesulfonic acid (PFHxS)
537 (modified)	SHAKE	Solid	Perfluorohexanoic acid (PFHxA)
537 (modified)	SHAKE	Solid	Perfluorononanesulfonic acid (PFNS)
537 (modified)	SHAKE	Solid	Perfluorononanoic acid (PFNA)
537 (modified)	SHAKE	Solid	Perfluorooctanesulfonamide (FOSA)
537 (modified)	SHAKE	Solid	Perfluorooctanesulfonic acid (PFOS)
537 (modified)	SHAKE	Solid	Perfluorooctanoic acid (PFOA)
537 (modified)	SHAKE	Solid	Perfluoropentanesulfonic acid (PFPeS)
537 (modified)	SHAKE	Solid	Perfluoropentanoic acid (PFPeA)
537 (modified)	SHAKE	Solid	Perfluorotetradecanoic acid (PFTeA)
537 (modified)	SHAKE	Solid	Perfluorotridecanoic acid (PFTriA)
537 (modified)	SHAKE	Solid	Perfluoroundecanoic acid (PFUnA)
D 2216		Solid	Percent Moisture

Method Summary

Client: OHM Advisors

Job ID: 320-72932-1

Project/Site: Walled Lake and Novi WWTP PFAS Sources

Method	Method Description	Protocol	Laboratory
537 (modified)	Fluorinated Alkyl Substances	EPA	TAL SAC
D 2216	Percent Moisture	ASTM	TAL SAC
3535	Solid-Phase Extraction (SPE)	SW846	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

Sample Summary

Client: OHM Advisors

Job ID: 320-72932-1

Project/Site: Walled Lake and Novi WWTP PFAS Sources

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
320-72932-1	P1-2	Water	04/23/21 10:18	04/27/21 10:00	
320-72932-2	P2	Water	04/23/21 10:32	04/27/21 10:00	
320-72932-3	P3	Water	04/23/21 10:47	04/27/21 10:00	
320-72932-4	P3 FIELD BLANK	Water	04/23/21 10:44	04/27/21 10:00	
320-72932-5	P4	Water	04/23/21 11:10	04/27/21 10:00	
320-72932-6	P5	Solid	04/23/21 11:10	04/27/21 10:00	
320-72932-7	P6	Water	04/23/21 11:22	04/27/21 10:00	
320-72932-8	P7	Solid	04/23/21 11:22	04/27/21 10:00	
320-72932-9	P8	Solid	04/23/21 11:46	04/27/21 10:00	

Chain of Custody Record

Eurofins Test America - Brighton --- 10448 Citation Drive, Suite 200 / Brighton, MI 48116 / 810-229-2763



Environment 1
TestAmerica

Client Contact Company Name: Oakland County Water Resources Address: Commissioner 1 Public Works Drive City/State/Zip: Waterford, MI 48328-1907 Phone:		Regulatory Program: <input type="checkbox"/> DW <input type="checkbox"/> NPDES <input type="checkbox"/> RCRA <input checked="" type="checkbox"/> Other wastewater permit		Site Contact: Karlín Danielsén Telephone: 734-466-4466 Email: koederm@oakgov.com		Lab Contact: Linda Laver Telephone: 916-374-4362		COC No:	
Project Name: Oakland Co Resample Day 2 PFAS/TOPS		Analysis Turnaround Time TAT is different from below <input type="checkbox"/> 3 weeks <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		Analysis:		For lab use only: Walk-in client Lab sampling Job/SDG No:		Sample Specific Notes / Special Instructions:	
PO # Not Required		Method of Shipment (if earlier): Eurofins TestAmerica Field Services Shipping/Tracking No:		Analysis Turnaround Time TAT is different from below <input type="checkbox"/> 3 weeks <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		Analysis:		For lab use only: Walk-in client Lab sampling Job/SDG No:	
Sample Identification		Matrix Aqueous <input type="checkbox"/> Solid <input type="checkbox"/> Other:		Containers & Preservatives H2SO4 <input type="checkbox"/> HNO3 <input type="checkbox"/> HCl <input type="checkbox"/> NaOH <input type="checkbox"/> NaBr <input type="checkbox"/> Other:		Filtered Sample (Y/N) Composite <input type="checkbox"/> (Grab=C)		Analysis:	
Sample Date		Sample Time		Matrix Aqueous <input type="checkbox"/> Solid <input type="checkbox"/> Other:		Containers & Preservatives H2SO4 <input type="checkbox"/> HNO3 <input type="checkbox"/> HCl <input type="checkbox"/> NaOH <input type="checkbox"/> NaBr <input type="checkbox"/> Other:		Filtered Sample (Y/N) Composite <input type="checkbox"/> (Grab=C)	
P1-2	4/23/21	1018		X					
P2	4/23/21	1032		X					
P3	4/23/21	1047		X					
P3 FIELD BLANK	4/23/21	1044		X					
P4	4/23/21	1110		X					
P5	SAME AS ABOVE	SAME AS ABOVE		X					
P6	4/23/21	1122		X					
P7	SAME AS ABOVE	SAME AS ABOVE		X					
P8	4/23/21	1146		X					
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown		Special Instructions QC Requirements & Comments:		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return to Client <input checked="" type="checkbox"/> Deposed By Lab <input type="checkbox"/> Archive For		Analysis:		For lab use only:	
(Print Name) Eurofins TestAmerica Field Technician - J. Berton		Company: ETA		Date/Time: 4/23/21 12:00		Company: ETA		Date/Time: 4/23/21 1331	
Relinquished by Jill Berton		Company: ETA		Date/Time: 4/23/21 1330		Company: ETA		Date/Time: 4/23/21 1331	
Relinquished by Jill Berton		Company: ETA		Date/Time: 4/23/21 1535		Company: ETASAC		Date/Time: 4/23/21 10:00	

• P3-BLANK-DAY2 50 4/28/21



Login Sample Receipt Checklist

Client: OHM Advisors

Job Number: 320-72932-1

Login Number: 72932

List Source: Eurofins TestAmerica, Sacramento

List Number: 1

Creator: Cahill, Nicholas P

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	1429025
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	
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	
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 $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	False	Refer to Job Narrative for details.
Samples do not require splitting or compositing.	False	Refer to Job Narrative for details.
Residual Chlorine Checked.	N/A	