

ANALYTICAL REPORT

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Tel: (717)656-2300

Laboratory Job ID: 410-43806-1
Client Project/Site: KI Sawyer WWTP

For:
White Water Associates
429 River Lane
PO BOX 27
Amasa, Michigan 49903

Attn: Bette J Premo



Authorized for release by:
7/5/2021 6:07:49 AM

Elizabeth Zanar, Project Manager
(717)556-7290
Elizabeth.Zanar@eurofinset.com

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

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

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Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
 - Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.
 - Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.
- Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

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Elizabeth Zanar
Project Manager
7/5/2021 6:07:49 AM

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Definitions/Glossary

Client: White Water Associates
Project/Site: KI Sawyer WWTP

Job ID: 410-43806-1

Qualifiers

LCMS

| Qualifier | Qualifier Description |
|-----------|--|
| *+ | LCS and/or LCSD is outside acceptance limits, high biased. |
| E | Result exceeded calibration range. |
| 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. |
| S1- | Surrogate recovery exceeds control limits, low biased. |

Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|----------------|---|
| □ | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R | Percent Recovery |
| 1C | Result is from the primary column on a dual-column method. |
| 2C | Result is from the confirmation column on a dual-column method. |
| 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: White Water Associates
Project/Site: KI Sawyer WWTP

Job ID: 410-43806-1

Job ID: 410-43806-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Narrative

Job Narrative 410-43806-1

Receipt

The samples were received on 6/16/2021 11:43 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 time was 0.4°C

LCMS

Method 537.1_DW: The recovery for the surrogate(s) in the following samples: Field Blank (410-43806-3) and Trip Blank (410-43806-4) is outside QC acceptance limits. The following action was taken: The sample(s) was re-extracted within the method required holding time and the recovery for the surrogate(s) is again outside QC acceptance limits.

Method PFC_IDA: The recovery for target analyte perfluorooctanesulfonamide (PFOSA) is outside of QC acceptance limits in the laboratory control spike(s) associated with sample: Biosolids West (410-43806-5). Since the recovery for PFOSA is high and the result detected in the sample(s) is a "J" level detection, the data is reported. The result reported for PFOSA in this sample(s) should be considered estimated.

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

General Chemistry

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

Detection Summary

Client: White Water Associates
Project/Site: KI Sawyer WWTP

Job ID: 410-43806-1

Client Sample ID: Well 5

Lab Sample ID: 410-43806-1

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------------------|--------|-----------|-----|------|------|---------|---|-----------|-----------|
| Perfluorohexanoic acid | 1.5 | J | 1.8 | 0.46 | ng/L | 1 | | EPA 537.1 | Total/NA |
| Perfluoroheptanoic acid | 0.67 | J | 1.8 | 0.46 | ng/L | 1 | | EPA 537.1 | Total/NA |
| Perfluorooctanoic acid | 1.1 | J | 1.8 | 0.46 | ng/L | 1 | | EPA 537.1 | Total/NA |
| Perfluorobutanesulfonic acid | 9.9 | | 1.8 | 0.46 | ng/L | 1 | | EPA 537.1 | Total/NA |
| Perfluorohexanesulfonic acid | 8.6 | | 1.8 | 0.46 | ng/L | 1 | | EPA 537.1 | Total/NA |
| Perfluorooctanesulfonic acid | 1.7 | J | 1.8 | 0.46 | ng/L | 1 | | EPA 537.1 | Total/NA |

Client Sample ID: TP 001

Lab Sample ID: 410-43806-2

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------------------|--------|-----------|-----|------|------|---------|---|-----------|-----------|
| Perfluorohexanoic acid | 1.5 | J | 1.8 | 0.44 | ng/L | 1 | | EPA 537.1 | Total/NA |
| Perfluoroheptanoic acid | 0.65 | J | 1.8 | 0.44 | ng/L | 1 | | EPA 537.1 | Total/NA |
| Perfluorooctanoic acid | 1.1 | J | 1.8 | 0.44 | ng/L | 1 | | EPA 537.1 | Total/NA |
| Perfluorobutanesulfonic acid | 9.4 | | 1.8 | 0.44 | ng/L | 1 | | EPA 537.1 | Total/NA |
| Perfluorohexanesulfonic acid | 8.2 | | 1.8 | 0.44 | ng/L | 1 | | EPA 537.1 | Total/NA |
| Perfluorooctanesulfonic acid | 1.6 | J | 1.8 | 0.44 | ng/L | 1 | | EPA 537.1 | Total/NA |

Client Sample ID: Field Blank

Lab Sample ID: 410-43806-3

No Detections.

Client Sample ID: Trip Blank

Lab Sample ID: 410-43806-4

No Detections.

Client Sample ID: Biosolids West

Lab Sample ID: 410-43806-5

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------------------------------|--------|-----------|----|-----|------|---------|---|---------------|-----------|
| Perfluorohexanoic acid | 10 | J | 13 | 4.2 | ng/g | 1 | ✱ | EPA 537 (Mod) | Total/NA |
| Perfluorooctanoic acid | 9.4 | J | 13 | 4.2 | ng/g | 1 | ✱ | EPA 537 (Mod) | Total/NA |
| Perfluorodecanoic acid | 5.1 | J | 13 | 4.2 | ng/g | 1 | ✱ | EPA 537 (Mod) | Total/NA |
| Perfluorohexanesulfonic acid | 7.1 | J I | 13 | 4.2 | ng/g | 1 | ✱ | EPA 537 (Mod) | Total/NA |
| Perfluorooctanesulfonic acid | 74 | | 13 | 4.2 | ng/g | 1 | ✱ | EPA 537 (Mod) | Total/NA |
| NEtFOSAA | 6.4 | J | 42 | 4.2 | ng/g | 1 | ✱ | EPA 537 (Mod) | Total/NA |
| NMeFOSAA | 14 | J | 42 | 4.2 | ng/g | 1 | ✱ | EPA 537 (Mod) | Total/NA |
| Perfluorooctanesulfonamide | 6.4 | J *+ | 13 | 4.2 | ng/g | 1 | ✱ | EPA 537 (Mod) | Total/NA |
| Perfluoroundecanoic acid | 5.5 | J | 13 | 4.2 | ng/g | 1 | ✱ | EPA 537 (Mod) | Total/NA |
| 8:2 Fluorotelomer sulfonic acid | 18 | J | 63 | 13 | ng/g | 1 | ✱ | EPA 537 (Mod) | Total/NA |
| 6:2 Fluorotelomer sulfonic acid | 13 | J | 42 | 13 | ng/g | 1 | ✱ | EPA 537 (Mod) | Total/NA |

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: White Water Associates
Project/Site: KI Sawyer WWTP

Job ID: 410-43806-1

Client Sample ID: Well 5

Lab Sample ID: 410-43806-1

Date Collected: 06/15/21 09:15

Matrix: Drinking Water

Date Received: 06/16/21 11:43

Method: EPA 537.1 - EPA 537.1, Ver 1.0 Nov 2018

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|-----|------|------|---|----------------|----------------|---------|
| Perfluorohexanoic acid | 1.5 | J | 1.8 | 0.46 | ng/L | | 06/17/21 08:07 | 06/22/21 19:59 | 1 |
| Perfluoroheptanoic acid | 0.67 | J | 1.8 | 0.46 | ng/L | | 06/17/21 08:07 | 06/22/21 19:59 | 1 |
| Perfluorooctanoic acid | 1.1 | J | 1.8 | 0.46 | ng/L | | 06/17/21 08:07 | 06/22/21 19:59 | 1 |
| Perfluorononanoic acid | ND | | 1.8 | 0.46 | ng/L | | 06/17/21 08:07 | 06/22/21 19:59 | 1 |
| Perfluorodecanoic acid | ND | | 1.8 | 0.46 | ng/L | | 06/17/21 08:07 | 06/22/21 19:59 | 1 |
| Perfluorotridecanoic acid | ND | | 1.8 | 0.46 | ng/L | | 06/17/21 08:07 | 06/22/21 19:59 | 1 |
| Perfluorotetradecanoic acid | ND | | 1.8 | 0.46 | ng/L | | 06/17/21 08:07 | 06/22/21 19:59 | 1 |
| Perfluorobutanesulfonic acid | 9.9 | | 1.8 | 0.46 | ng/L | | 06/17/21 08:07 | 06/22/21 19:59 | 1 |
| Perfluorohexanesulfonic acid | 8.6 | | 1.8 | 0.46 | ng/L | | 06/17/21 08:07 | 06/22/21 19:59 | 1 |
| Perfluorooctanesulfonic acid | 1.7 | J | 1.8 | 0.46 | ng/L | | 06/17/21 08:07 | 06/22/21 19:59 | 1 |
| NEtFOSAA | ND | | 1.8 | 0.46 | ng/L | | 06/17/21 08:07 | 06/22/21 19:59 | 1 |
| NMeFOSAA | ND | | 1.8 | 0.46 | ng/L | | 06/17/21 08:07 | 06/22/21 19:59 | 1 |
| Perfluoroundecanoic acid | ND | | 1.8 | 0.46 | ng/L | | 06/17/21 08:07 | 06/22/21 19:59 | 1 |
| Perfluorododecanoic acid | ND | | 1.8 | 0.46 | ng/L | | 06/17/21 08:07 | 06/22/21 19:59 | 1 |
| HFPODA | ND | | 1.8 | 0.46 | ng/L | | 06/17/21 08:07 | 06/22/21 19:59 | 1 |
| 9Cl-PF3ONS | ND | | 1.8 | 0.46 | ng/L | | 06/17/21 08:07 | 06/22/21 19:59 | 1 |
| 11Cl-PF3OUdS | ND | | 1.8 | 0.46 | ng/L | | 06/17/21 08:07 | 06/22/21 19:59 | 1 |
| DONA | ND | | 1.8 | 0.46 | ng/L | | 06/17/21 08:07 | 06/22/21 19:59 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|--------------|-----------|-----------|----------|----------------|----------------|---------|
| 13C2 PFDA | 90 | | 70 - 130 | 06/17/21 08:07 | 06/22/21 19:59 | 1 |
| 13C2 PFHxA | 93 | | 70 - 130 | 06/17/21 08:07 | 06/22/21 19:59 | 1 |
| 13C3 HFPO-DA | 88 | | 70 - 130 | 06/17/21 08:07 | 06/22/21 19:59 | 1 |
| d5-NEtFOSAA | 85 | | 70 - 130 | 06/17/21 08:07 | 06/22/21 19:59 | 1 |

Client Sample ID: TP 001

Lab Sample ID: 410-43806-2

Date Collected: 06/15/21 09:20

Matrix: Drinking Water

Date Received: 06/16/21 11:43

Method: EPA 537.1 - EPA 537.1, Ver 1.0 Nov 2018

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|-----|------|------|---|----------------|----------------|---------|
| Perfluorohexanoic acid | 1.5 | J | 1.8 | 0.44 | ng/L | | 06/17/21 08:07 | 06/22/21 20:11 | 1 |
| Perfluoroheptanoic acid | 0.65 | J | 1.8 | 0.44 | ng/L | | 06/17/21 08:07 | 06/22/21 20:11 | 1 |
| Perfluorooctanoic acid | 1.1 | J | 1.8 | 0.44 | ng/L | | 06/17/21 08:07 | 06/22/21 20:11 | 1 |
| Perfluorononanoic acid | ND | | 1.8 | 0.44 | ng/L | | 06/17/21 08:07 | 06/22/21 20:11 | 1 |
| Perfluorodecanoic acid | ND | | 1.8 | 0.44 | ng/L | | 06/17/21 08:07 | 06/22/21 20:11 | 1 |
| Perfluorotridecanoic acid | ND | | 1.8 | 0.44 | ng/L | | 06/17/21 08:07 | 06/22/21 20:11 | 1 |
| Perfluorotetradecanoic acid | ND | | 1.8 | 0.44 | ng/L | | 06/17/21 08:07 | 06/22/21 20:11 | 1 |
| Perfluorobutanesulfonic acid | 9.4 | | 1.8 | 0.44 | ng/L | | 06/17/21 08:07 | 06/22/21 20:11 | 1 |
| Perfluorohexanesulfonic acid | 8.2 | | 1.8 | 0.44 | ng/L | | 06/17/21 08:07 | 06/22/21 20:11 | 1 |
| Perfluorooctanesulfonic acid | 1.6 | J | 1.8 | 0.44 | ng/L | | 06/17/21 08:07 | 06/22/21 20:11 | 1 |
| NEtFOSAA | ND | | 1.8 | 0.44 | ng/L | | 06/17/21 08:07 | 06/22/21 20:11 | 1 |
| NMeFOSAA | ND | | 1.8 | 0.44 | ng/L | | 06/17/21 08:07 | 06/22/21 20:11 | 1 |
| Perfluoroundecanoic acid | ND | | 1.8 | 0.44 | ng/L | | 06/17/21 08:07 | 06/22/21 20:11 | 1 |
| Perfluorododecanoic acid | ND | | 1.8 | 0.44 | ng/L | | 06/17/21 08:07 | 06/22/21 20:11 | 1 |
| HFPODA | ND | | 1.8 | 0.44 | ng/L | | 06/17/21 08:07 | 06/22/21 20:11 | 1 |
| 9Cl-PF3ONS | ND | | 1.8 | 0.44 | ng/L | | 06/17/21 08:07 | 06/22/21 20:11 | 1 |
| 11Cl-PF3OUdS | ND | | 1.8 | 0.44 | ng/L | | 06/17/21 08:07 | 06/22/21 20:11 | 1 |
| DONA | ND | | 1.8 | 0.44 | ng/L | | 06/17/21 08:07 | 06/22/21 20:11 | 1 |

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: White Water Associates
Project/Site: KI Sawyer WWTP

Job ID: 410-43806-1

Client Sample ID: TP 001

Date Collected: 06/15/21 09:20

Date Received: 06/16/21 11:43

Lab Sample ID: 410-43806-2

Matrix: Drinking Water

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|--------------|-----------|-----------|----------|----------------|----------------|---------|
| 13C2 PFDA | 84 | | 70 - 130 | 06/17/21 08:07 | 06/22/21 20:11 | 1 |
| 13C2 PFHxA | 89 | | 70 - 130 | 06/17/21 08:07 | 06/22/21 20:11 | 1 |
| 13C3 HFPO-DA | 84 | | 70 - 130 | 06/17/21 08:07 | 06/22/21 20:11 | 1 |
| d5-NEtFOSAA | 80 | | 70 - 130 | 06/17/21 08:07 | 06/22/21 20:11 | 1 |

Client Sample ID: Field Blank

Date Collected: 06/15/21 09:10

Date Received: 06/16/21 11:43

Lab Sample ID: 410-43806-3

Matrix: Drinking Water

Method: EPA 537.1 - EPA 537.1, Ver 1.0 Nov 2018

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|-----|------|------|---|----------------|----------------|---------|
| Perfluorohexanoic acid | ND | | 1.9 | 0.48 | ng/L | | 06/17/21 08:07 | 06/22/21 20:23 | 1 |
| Perfluoroheptanoic acid | ND | | 1.9 | 0.48 | ng/L | | 06/17/21 08:07 | 06/22/21 20:23 | 1 |
| Perfluorooctanoic acid | ND | | 1.9 | 0.48 | ng/L | | 06/17/21 08:07 | 06/22/21 20:23 | 1 |
| Perfluorononanoic acid | ND | | 1.9 | 0.48 | ng/L | | 06/17/21 08:07 | 06/22/21 20:23 | 1 |
| Perfluorodecanoic acid | ND | | 1.9 | 0.48 | ng/L | | 06/17/21 08:07 | 06/22/21 20:23 | 1 |
| Perfluorotridecanoic acid | ND | | 1.9 | 0.48 | ng/L | | 06/17/21 08:07 | 06/22/21 20:23 | 1 |
| Perfluorotetradecanoic acid | ND | | 1.9 | 0.48 | ng/L | | 06/17/21 08:07 | 06/22/21 20:23 | 1 |
| Perfluorobutanesulfonic acid | ND | | 1.9 | 0.48 | ng/L | | 06/17/21 08:07 | 06/22/21 20:23 | 1 |
| Perfluorohexanesulfonic acid | ND | | 1.9 | 0.48 | ng/L | | 06/17/21 08:07 | 06/22/21 20:23 | 1 |
| Perfluorooctanesulfonic acid | ND | | 1.9 | 0.48 | ng/L | | 06/17/21 08:07 | 06/22/21 20:23 | 1 |
| NEtFOSAA | ND | | 1.9 | 0.48 | ng/L | | 06/17/21 08:07 | 06/22/21 20:23 | 1 |
| NMeFOSAA | ND | | 1.9 | 0.48 | ng/L | | 06/17/21 08:07 | 06/22/21 20:23 | 1 |
| Perfluoroundecanoic acid | ND | | 1.9 | 0.48 | ng/L | | 06/17/21 08:07 | 06/22/21 20:23 | 1 |
| Perfluorododecanoic acid | ND | | 1.9 | 0.48 | ng/L | | 06/17/21 08:07 | 06/22/21 20:23 | 1 |
| HFPODA | ND | | 1.9 | 0.48 | ng/L | | 06/17/21 08:07 | 06/22/21 20:23 | 1 |
| 9Cl-PF3ONS | ND | | 1.9 | 0.48 | ng/L | | 06/17/21 08:07 | 06/22/21 20:23 | 1 |
| 11Cl-PF3OUdS | ND | | 1.9 | 0.48 | ng/L | | 06/17/21 08:07 | 06/22/21 20:23 | 1 |
| DONA | ND | | 1.9 | 0.48 | ng/L | | 06/17/21 08:07 | 06/22/21 20:23 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|--------------|-----------|-----------|----------|----------------|----------------|---------|
| 13C2 PFDA | 26 | S1- | 70 - 130 | 06/17/21 08:07 | 06/22/21 20:23 | 1 |
| 13C2 PFHxA | 7 | S1- | 70 - 130 | 06/17/21 08:07 | 06/22/21 20:23 | 1 |
| 13C3 HFPO-DA | 7 | S1- | 70 - 130 | 06/17/21 08:07 | 06/22/21 20:23 | 1 |
| d5-NEtFOSAA | 36 | S1- | 70 - 130 | 06/17/21 08:07 | 06/22/21 20:23 | 1 |

Client Sample ID: Trip Blank

Date Collected: 06/15/21 09:45

Date Received: 06/16/21 11:43

Lab Sample ID: 410-43806-4

Matrix: Drinking Water

Method: EPA 537.1 - EPA 537.1, Ver 1.0 Nov 2018

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|-----|------|------|---|----------------|----------------|---------|
| Perfluorohexanoic acid | ND | | 1.8 | 0.46 | ng/L | | 06/17/21 08:04 | 06/22/21 17:40 | 1 |
| Perfluoroheptanoic acid | ND | | 1.8 | 0.46 | ng/L | | 06/17/21 08:04 | 06/22/21 17:40 | 1 |
| Perfluorooctanoic acid | ND | | 1.8 | 0.46 | ng/L | | 06/17/21 08:04 | 06/22/21 17:40 | 1 |
| Perfluorononanoic acid | ND | | 1.8 | 0.46 | ng/L | | 06/17/21 08:04 | 06/22/21 17:40 | 1 |
| Perfluorodecanoic acid | ND | | 1.8 | 0.46 | ng/L | | 06/17/21 08:04 | 06/22/21 17:40 | 1 |
| Perfluorotridecanoic acid | ND | | 1.8 | 0.46 | ng/L | | 06/17/21 08:04 | 06/22/21 17:40 | 1 |
| Perfluorotetradecanoic acid | ND | | 1.8 | 0.46 | ng/L | | 06/17/21 08:04 | 06/22/21 17:40 | 1 |
| Perfluorobutanesulfonic acid | ND | | 1.8 | 0.46 | ng/L | | 06/17/21 08:04 | 06/22/21 17:40 | 1 |
| Perfluorohexanesulfonic acid | ND | | 1.8 | 0.46 | ng/L | | 06/17/21 08:04 | 06/22/21 17:40 | 1 |

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: White Water Associates
Project/Site: KI Sawyer WWTP

Job ID: 410-43806-1

Client Sample ID: Trip Blank

Lab Sample ID: 410-43806-4

Date Collected: 06/15/21 09:45

Matrix: Drinking Water

Date Received: 06/16/21 11:43

Method: EPA 537.1 - EPA 537.1, Ver 1.0 Nov 2018 (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|------|------|---|----------------|----------------|---------|
| Perfluorooctanesulfonic acid | ND | | 1.8 | 0.46 | ng/L | | 06/17/21 08:04 | 06/22/21 17:40 | 1 |
| NEtFOSAA | ND | | 1.8 | 0.46 | ng/L | | 06/17/21 08:04 | 06/22/21 17:40 | 1 |
| NMeFOSAA | ND | | 1.8 | 0.46 | ng/L | | 06/17/21 08:04 | 06/22/21 17:40 | 1 |
| Perfluoroundecanoic acid | ND | | 1.8 | 0.46 | ng/L | | 06/17/21 08:04 | 06/22/21 17:40 | 1 |
| Perfluorododecanoic acid | ND | | 1.8 | 0.46 | ng/L | | 06/17/21 08:04 | 06/22/21 17:40 | 1 |
| HFPODA | ND | | 1.8 | 0.46 | ng/L | | 06/17/21 08:04 | 06/22/21 17:40 | 1 |
| 9Cl-PF3ONS | ND | | 1.8 | 0.46 | ng/L | | 06/17/21 08:04 | 06/22/21 17:40 | 1 |
| 11Cl-PF3OUdS | ND | | 1.8 | 0.46 | ng/L | | 06/17/21 08:04 | 06/22/21 17:40 | 1 |
| DONA | ND | | 1.8 | 0.46 | ng/L | | 06/17/21 08:04 | 06/22/21 17:40 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 13C2 PFDA | 74 | | 70 - 130 | | | | 06/17/21 08:04 | 06/22/21 17:40 | 1 |
| 13C2 PFHxA | 19 | S1- | 70 - 130 | | | | 06/17/21 08:04 | 06/22/21 17:40 | 1 |
| 13C3 HFPO-DA | 22 | S1- | 70 - 130 | | | | 06/17/21 08:04 | 06/22/21 17:40 | 1 |
| d5-NEtFOSAA | 74 | | 70 - 130 | | | | 06/17/21 08:04 | 06/22/21 17:40 | 1 |

Client Sample ID: Biosolids West

Lab Sample ID: 410-43806-5

Date Collected: 06/15/21 09:40

Matrix: Solid

Date Received: 06/16/21 11:43

Percent Solids: 2.4

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------|--------|-----------|----|-----|------|---|----------------|----------------|---------|
| Perfluorohexanoic acid | 10 | J | 13 | 4.2 | ng/g | ✱ | 06/17/21 10:34 | 06/24/21 17:34 | 1 |
| Perfluoroheptanoic acid | ND | | 13 | 4.2 | ng/g | ✱ | 06/17/21 10:34 | 06/24/21 17:34 | 1 |
| Perfluorooctanoic acid | 9.4 | J | 13 | 4.2 | ng/g | ✱ | 06/17/21 10:34 | 06/24/21 17:34 | 1 |
| Perfluorononanoic acid | ND | | 13 | 4.2 | ng/g | ✱ | 06/17/21 10:34 | 06/24/21 17:34 | 1 |
| Perfluorodecanoic acid | 5.1 | J | 13 | 4.2 | ng/g | ✱ | 06/17/21 10:34 | 06/24/21 17:34 | 1 |
| Perfluorotridecanoic acid | ND | | 13 | 4.2 | ng/g | ✱ | 06/17/21 10:34 | 06/24/21 17:34 | 1 |
| Perfluorotetradecanoic acid | ND | | 13 | 4.2 | ng/g | ✱ | 06/17/21 10:34 | 06/24/21 17:34 | 1 |
| Perfluorobutanesulfonic acid | ND | | 42 | 8.4 | ng/g | ✱ | 06/17/21 10:34 | 06/24/21 17:34 | 1 |
| Perfluorohexanesulfonic acid | 7.1 | J I | 13 | 4.2 | ng/g | ✱ | 06/17/21 10:34 | 06/24/21 17:34 | 1 |
| Perfluorooctanesulfonic acid | 74 | | 13 | 4.2 | ng/g | ✱ | 06/17/21 10:34 | 06/24/21 17:34 | 1 |
| NEtFOSAA | 6.4 | J | 42 | 4.2 | ng/g | ✱ | 06/17/21 10:34 | 06/24/21 17:34 | 1 |
| NMeFOSAA | 14 | J | 42 | 4.2 | ng/g | ✱ | 06/17/21 10:34 | 06/24/21 17:34 | 1 |
| Perfluoropentanesulfonic acid | ND | | 13 | 4.2 | ng/g | ✱ | 06/17/21 10:34 | 06/24/21 17:34 | 1 |
| Perfluoroheptanesulfonic acid | ND | | 13 | 4.2 | ng/g | ✱ | 06/17/21 10:34 | 06/24/21 17:34 | 1 |
| Perfluorononanesulfonic acid | ND | | 13 | 4.2 | ng/g | ✱ | 06/17/21 10:34 | 06/24/21 17:34 | 1 |
| Perfluorodecanesulfonic acid | ND | | 13 | 4.2 | ng/g | ✱ | 06/17/21 10:34 | 06/24/21 17:34 | 1 |
| Perfluorooctanesulfonamide | 6.4 | J *+ | 13 | 4.2 | ng/g | ✱ | 06/17/21 10:34 | 06/24/21 17:34 | 1 |
| Perfluorobutanoic acid | ND | | 42 | 17 | ng/g | ✱ | 06/17/21 10:34 | 06/24/21 17:34 | 1 |
| Perfluoropentanoic acid | ND | | 13 | 4.2 | ng/g | ✱ | 06/17/21 10:34 | 06/24/21 17:34 | 1 |
| HFPODA | ND | | 42 | 8.4 | ng/g | ✱ | 06/17/21 10:34 | 06/24/21 17:34 | 1 |
| DONA | ND | | 63 | 4.2 | ng/g | ✱ | 06/17/21 10:34 | 06/24/21 17:34 | 1 |
| 9Cl-PF3ONS | ND | | 42 | 4.2 | ng/g | ✱ | 06/17/21 10:34 | 06/24/21 17:34 | 1 |
| 11Cl-PF3OUdS | ND | | 13 | 4.2 | ng/g | ✱ | 06/17/21 10:34 | 06/24/21 17:34 | 1 |
| Perfluoroundecanoic acid | 5.5 | J | 13 | 4.2 | ng/g | ✱ | 06/17/21 10:34 | 06/24/21 17:34 | 1 |
| Perfluorododecanoic acid | ND | | 13 | 4.2 | ng/g | ✱ | 06/17/21 10:34 | 06/24/21 17:34 | 1 |
| 8:2 Fluorotelomer sulfonic acid | 18 | J | 63 | 13 | ng/g | ✱ | 06/17/21 10:34 | 06/24/21 17:34 | 1 |
| 4:2 Fluorotelomer sulfonic acid | ND | | 42 | 13 | ng/g | ✱ | 06/17/21 10:34 | 06/24/21 17:34 | 1 |
| 6:2 Fluorotelomer sulfonic acid | 13 | J | 42 | 13 | ng/g | ✱ | 06/17/21 10:34 | 06/24/21 17:34 | 1 |

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Client Sample Results

Client: White Water Associates
Project/Site: KI Sawyer WWTP

Job ID: 410-43806-1

Client Sample ID: Biosolids West

Lab Sample ID: 410-43806-5

Date Collected: 06/15/21 09:40

Matrix: Solid

Date Received: 06/16/21 11:43

Percent Solids: 2.4

| Isotope Dilution | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------|-----------|-----------|----------|----------------|----------------|---------|
| M2-4:2 FTS | 125 | | 10 - 169 | 06/17/21 10:34 | 06/24/21 17:34 | 1 |
| M2-8:2 FTS | 158 | | 10 - 178 | 06/17/21 10:34 | 06/24/21 17:34 | 1 |
| M2-6:2 FTS | 135 | | 10 - 182 | 06/17/21 10:34 | 06/24/21 17:34 | 1 |
| 13C5 PFHxA | 100 | | 11 - 138 | 06/17/21 10:34 | 06/24/21 17:34 | 1 |
| 13C4 PFHpA | 108 | | 15 - 139 | 06/17/21 10:34 | 06/24/21 17:34 | 1 |
| 13C8 PFOA | 114 | | 21 - 133 | 06/17/21 10:34 | 06/24/21 17:34 | 1 |
| 13C9 PFNA | 106 | | 15 - 145 | 06/17/21 10:34 | 06/24/21 17:34 | 1 |
| 13C6 PFDA | 111 | | 21 - 134 | 06/17/21 10:34 | 06/24/21 17:34 | 1 |
| 13C7 PFUnA | 114 | | 15 - 138 | 06/17/21 10:34 | 06/24/21 17:34 | 1 |
| 13C2-PFDoDA | 100 | | 28 - 126 | 06/17/21 10:34 | 06/24/21 17:34 | 1 |
| 13C2 PFTeDA | 101 | | 10 - 138 | 06/17/21 10:34 | 06/24/21 17:34 | 1 |
| 13C3 PFBS | 126 | | 23 - 130 | 06/17/21 10:34 | 06/24/21 17:34 | 1 |
| 13C3 PFHxS | 113 | | 24 - 136 | 06/17/21 10:34 | 06/24/21 17:34 | 1 |
| 13C8 PFOS | 106 | | 31 - 130 | 06/17/21 10:34 | 06/24/21 17:34 | 1 |
| d3-NMeFOSAA | 103 | | 10 - 172 | 06/17/21 10:34 | 06/24/21 17:34 | 1 |
| d5-NEtFOSAA | 121 | | 10 - 176 | 06/17/21 10:34 | 06/24/21 17:34 | 1 |
| 13C8 FOSA | 90 | | 25 - 135 | 06/17/21 10:34 | 06/24/21 17:34 | 1 |
| 13C4 PFBA | 108 | | 12 - 137 | 06/17/21 10:34 | 06/24/21 17:34 | 1 |
| 13C5 PFPeA | 117 | | 12 - 135 | 06/17/21 10:34 | 06/24/21 17:34 | 1 |
| 13C3 HFPO-DA | 98 | | 10 - 152 | 06/17/21 10:34 | 06/24/21 17:34 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Percent Moisture | 97.6 | | 1.0 | 1.0 | % | | | 06/17/21 07:57 | 1 |

Surrogate Summary

Client: White Water Associates
Project/Site: KI Sawyer WWTP

Job ID: 410-43806-1

Method: EPA 537.1 - EPA 537.1, Ver 1.0 Nov 2018

Matrix: Drinking Water

Prep Type: Total/NA

| Lab Sample ID | Client Sample ID | Percent Surrogate Recovery (Acceptance Limits) | | | |
|---------------------|------------------------|--|-------------------|--------------------|---------------------|
| | | PFDA (70-130) | PFHxA (70-130) | HFPODA (70-130) | d5NEFOS (70-130) |
| 410-43806-1 | Well 5 | 90 | 93 | 88 | 85 |
| 410-43806-2 | TP 001 | 84 | 89 | 84 | 80 |
| 410-43806-3 | Field Blank | 26 S1- | 7 S1- | 7 S1- | 36 S1- |
| 410-43806-4 | Trip Blank | 74 | 19 S1- | 22 S1- | 74 |
| LCS 410-138899/2-A | Lab Control Sample | 85 | 89 | 90 | 72 |
| LCS 410-138903/2-A | Lab Control Sample | 86 | 86 | 83 | 74 |
| LCSD 410-138899/3-A | Lab Control Sample Dup | 86 | 93 | 97 | 70 |
| LCSD 410-138903/3-A | Lab Control Sample Dup | 89 | 94 | 91 | 78 |
| MB 410-138899/1-A | Method Blank | 80 | 85 | 86 | 75 |
| MB 410-138903/1-A | Method Blank | 85 | 90 | 84 | 78 |

Surrogate Legend

PFDA = 13C2 PFDA

PFHxA = 13C2 PFHxA

HFPODA = 13C3 HFPO-DA

d5NEFOS = d5-NEtFOSAA

Isotope Dilution Summary

Client: White Water Associates
Project/Site: KI Sawyer WWTP

Job ID: 410-43806-1

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Matrix: Solid

Prep Type: Total/NA

| | | Percent Isotope Dilution Recovery (Acceptance Limits) | | | | | | | |
|---------------------|------------------------|---|---------------------|---------------------|---------------------|--------------------|--------------------|--------------------|--------------------|
| Lab Sample ID | Client Sample ID | M242FTS (10-169) | M282FTS (10-178) | M262FTS (10-182) | 13C5PHA (11-138) | C4PFHA (15-139) | C8PFOA (21-133) | C9PFNA (15-145) | C6PFDA (21-134) |
| 410-43806-5 | Biosolids West | 125 | 158 | 135 | 100 | 108 | 114 | 106 | 111 |
| LCS 410-139001/2-B | Lab Control Sample | 117 | 92 | 109 | 104 | 106 | 115 | 115 | 114 |
| LCSD 410-139001/3-B | Lab Control Sample Dup | 113 | 91 | 109 | 102 | 107 | 107 | 100 | 104 |
| MB 410-139001/1-B | Method Blank | 120 | 104 | 123 | 101 | 105 | 114 | 114 | 109 |

| | | Percent Isotope Dilution Recovery (Acceptance Limits) | | | | | | | |
|---------------------|------------------------|---|--------------------|-------------------|--------------------|--------------------|--------------------|---------------------|---------------------|
| Lab Sample ID | Client Sample ID | 13C7PUA (15-138) | PFDODA (28-126) | PFTDA (10-138) | C3PFBS (23-130) | C3PFHS (24-136) | C8PFOS (31-130) | d3NMFOS (10-172) | d5NEFOS (10-176) |
| 410-43806-5 | Biosolids West | 114 | 100 | 101 | 126 | 113 | 106 | 103 | 121 |
| LCS 410-139001/2-B | Lab Control Sample | 115 | 108 | 100 | 126 | 108 | 113 | 107 | 117 |
| LCSD 410-139001/3-B | Lab Control Sample Dup | 102 | 98 | 85 | 116 | 104 | 102 | 98 | 109 |
| MB 410-139001/1-B | Method Blank | 109 | 95 | 89 | 127 | 107 | 111 | 98 | 115 |

| | | Percent Isotope Dilution Recovery (Acceptance Limits) | | | | | | | |
|---------------------|------------------------|---|------------------|-------------------|--------------------|--|--|--|--|
| Lab Sample ID | Client Sample ID | PFOSA (25-135) | PFBA (12-137) | PFPeA (12-135) | HFPODA (10-152) | | | | |
| 410-43806-5 | Biosolids West | 90 | 108 | 117 | 98 | | | | |
| LCS 410-139001/2-B | Lab Control Sample | 100 | 113 | 119 | 103 | | | | |
| LCSD 410-139001/3-B | Lab Control Sample Dup | 91 | 103 | 105 | 101 | | | | |
| MB 410-139001/1-B | Method Blank | 94 | 109 | 109 | 97 | | | | |

Surrogate Legend

M242FTS = M2-4:2 FTS
 M282FTS = M2-8:2 FTS
 M262FTS = M2-6:2 FTS
 13C5PHA = 13C5 PFHxA
 C4PFHA = 13C4 PFHpA
 C8PFOA = 13C8 PFOA
 C9PFNA = 13C9 PFNA
 C6PFDA = 13C6 PFDA
 13C7PUA = 13C7 PFUnA
 PFDODA = 13C2-PFDODA
 PFTDA = 13C2 PFTeDA
 C3PFBS = 13C3 PFBS
 C3PFHS = 13C3 PFHxS
 C8PFOS = 13C8 PFOS
 d3NMFOS = d3-NMeFOSAA
 d5NEFOS = d5-NEtFOSAA
 PFOSA = 13C8 FOSA
 PFBA = 13C4 PFBA
 PFPeA = 13C5 PFPeA
 HFPODA = 13C3 HFPO-DA

QC Sample Results

Client: White Water Associates
Project/Site: KI Sawyer WWTP

Job ID: 410-43806-1

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Lab Sample ID: MB 410-139001/1-B

Matrix: Solid

Analysis Batch: 141402

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 139001

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------|-----------|--------------|------|------|------|---|----------------|----------------|---------|
| Perfluorohexanoic acid | ND | | 0.30 | 0.10 | ng/g | | 06/17/21 10:34 | 06/24/21 17:00 | 1 |
| Perfluoroheptanoic acid | ND | | 0.30 | 0.10 | ng/g | | 06/17/21 10:34 | 06/24/21 17:00 | 1 |
| Perfluorooctanoic acid | ND | | 0.30 | 0.10 | ng/g | | 06/17/21 10:34 | 06/24/21 17:00 | 1 |
| Perfluorononanoic acid | ND | | 0.30 | 0.10 | ng/g | | 06/17/21 10:34 | 06/24/21 17:00 | 1 |
| Perfluorodecanoic acid | ND | | 0.30 | 0.10 | ng/g | | 06/17/21 10:34 | 06/24/21 17:00 | 1 |
| Perfluorotridecanoic acid | ND | | 0.30 | 0.10 | ng/g | | 06/17/21 10:34 | 06/24/21 17:00 | 1 |
| Perfluorotetradecanoic acid | ND | | 0.30 | 0.10 | ng/g | | 06/17/21 10:34 | 06/24/21 17:00 | 1 |
| Perfluorobutanesulfonic acid | ND | | 1.0 | 0.20 | ng/g | | 06/17/21 10:34 | 06/24/21 17:00 | 1 |
| Perfluorohexanesulfonic acid | ND | | 0.30 | 0.10 | ng/g | | 06/17/21 10:34 | 06/24/21 17:00 | 1 |
| Perfluorooctanesulfonic acid | ND | | 0.30 | 0.10 | ng/g | | 06/17/21 10:34 | 06/24/21 17:00 | 1 |
| NEtFOSAA | ND | | 1.0 | 0.10 | ng/g | | 06/17/21 10:34 | 06/24/21 17:00 | 1 |
| NMeFOSAA | ND | | 1.0 | 0.10 | ng/g | | 06/17/21 10:34 | 06/24/21 17:00 | 1 |
| Perfluoropentanesulfonic acid | ND | | 0.30 | 0.10 | ng/g | | 06/17/21 10:34 | 06/24/21 17:00 | 1 |
| Perfluoroheptanesulfonic acid | ND | | 0.30 | 0.10 | ng/g | | 06/17/21 10:34 | 06/24/21 17:00 | 1 |
| Perfluorononanesulfonic acid | ND | | 0.30 | 0.10 | ng/g | | 06/17/21 10:34 | 06/24/21 17:00 | 1 |
| Perfluorodecanesulfonic acid | ND | | 0.30 | 0.10 | ng/g | | 06/17/21 10:34 | 06/24/21 17:00 | 1 |
| Perfluorooctanesulfonamide | ND | | 0.30 | 0.10 | ng/g | | 06/17/21 10:34 | 06/24/21 17:00 | 1 |
| Perfluorobutanoic acid | ND | | 1.0 | 0.40 | ng/g | | 06/17/21 10:34 | 06/24/21 17:00 | 1 |
| Perfluoropentanoic acid | ND | | 0.30 | 0.10 | ng/g | | 06/17/21 10:34 | 06/24/21 17:00 | 1 |
| HFPODA | ND | | 1.0 | 0.20 | ng/g | | 06/17/21 10:34 | 06/24/21 17:00 | 1 |
| DONA | ND | | 1.5 | 0.10 | ng/g | | 06/17/21 10:34 | 06/24/21 17:00 | 1 |
| 9Cl-PF3ONS | ND | | 1.0 | 0.10 | ng/g | | 06/17/21 10:34 | 06/24/21 17:00 | 1 |
| 11Cl-PF3OUdS | ND | | 0.30 | 0.10 | ng/g | | 06/17/21 10:34 | 06/24/21 17:00 | 1 |
| Perfluoroundecanoic acid | ND | | 0.30 | 0.10 | ng/g | | 06/17/21 10:34 | 06/24/21 17:00 | 1 |
| Perfluorododecanoic acid | ND | | 0.30 | 0.10 | ng/g | | 06/17/21 10:34 | 06/24/21 17:00 | 1 |
| 8:2 Fluorotelomer sulfonic acid | ND | | 1.5 | 0.30 | ng/g | | 06/17/21 10:34 | 06/24/21 17:00 | 1 |
| 4:2 Fluorotelomer sulfonic acid | ND | | 1.0 | 0.30 | ng/g | | 06/17/21 10:34 | 06/24/21 17:00 | 1 |
| 6:2 Fluorotelomer sulfonic acid | ND | | 1.0 | 0.30 | ng/g | | 06/17/21 10:34 | 06/24/21 17:00 | 1 |

| Isotope Dilution | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------|--------------|--------------|----------|----------------|----------------|---------|
| M2-4:2 FTS | 120 | | 10 - 169 | 06/17/21 10:34 | 06/24/21 17:00 | 1 |
| M2-8:2 FTS | 104 | | 10 - 178 | 06/17/21 10:34 | 06/24/21 17:00 | 1 |
| M2-6:2 FTS | 123 | | 10 - 182 | 06/17/21 10:34 | 06/24/21 17:00 | 1 |
| 13C5 PFHxA | 101 | | 11 - 138 | 06/17/21 10:34 | 06/24/21 17:00 | 1 |
| 13C4 PFHpA | 105 | | 15 - 139 | 06/17/21 10:34 | 06/24/21 17:00 | 1 |
| 13C8 PFOA | 114 | | 21 - 133 | 06/17/21 10:34 | 06/24/21 17:00 | 1 |
| 13C9 PFNA | 114 | | 15 - 145 | 06/17/21 10:34 | 06/24/21 17:00 | 1 |
| 13C6 PFDA | 109 | | 21 - 134 | 06/17/21 10:34 | 06/24/21 17:00 | 1 |
| 13C7 PFUnA | 109 | | 15 - 138 | 06/17/21 10:34 | 06/24/21 17:00 | 1 |
| 13C2-PFDoDA | 95 | | 28 - 126 | 06/17/21 10:34 | 06/24/21 17:00 | 1 |
| 13C2 PFTeDA | 89 | | 10 - 138 | 06/17/21 10:34 | 06/24/21 17:00 | 1 |
| 13C3 PFBS | 127 | | 23 - 130 | 06/17/21 10:34 | 06/24/21 17:00 | 1 |
| 13C3 PFHxS | 107 | | 24 - 136 | 06/17/21 10:34 | 06/24/21 17:00 | 1 |
| 13C8 PFOS | 111 | | 31 - 130 | 06/17/21 10:34 | 06/24/21 17:00 | 1 |
| d3-NMeFOSAA | 98 | | 10 - 172 | 06/17/21 10:34 | 06/24/21 17:00 | 1 |
| d5-NEtFOSAA | 115 | | 10 - 176 | 06/17/21 10:34 | 06/24/21 17:00 | 1 |
| 13C8 FOSA | 94 | | 25 - 135 | 06/17/21 10:34 | 06/24/21 17:00 | 1 |
| 13C4 PFBA | 109 | | 12 - 137 | 06/17/21 10:34 | 06/24/21 17:00 | 1 |

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QC Sample Results

Client: White Water Associates
Project/Site: KI Sawyer WWTP

Job ID: 410-43806-1

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: MB 410-139001/1-B

Matrix: Solid

Analysis Batch: 141402

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 139001

| Isotope Dilution | MB MB | | Limits | Prepared | Analyzed | Dil Fac |
|------------------|-----------|-----------|----------|----------------|----------------|---------|
| | %Recovery | Qualifier | | | | |
| 13C5 PFPeA | 109 | | 12 - 135 | 06/17/21 10:34 | 06/24/21 17:00 | 1 |
| 13C3 HFPO-DA | 97 | | 10 - 152 | 06/17/21 10:34 | 06/24/21 17:00 | 1 |

Lab Sample ID: LCS 410-139001/2-B

Matrix: Solid

Analysis Batch: 141402

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 139001

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------------------------------|-------------|------------|---------------|------|---|------|--------------|
| | | | | | | | |
| Perfluorohexanoic acid | 25.0 | 21.9 | | ng/g | | 88 | 61 - 147 |
| Perfluoroheptanoic acid | 25.0 | 23.0 | | ng/g | | 92 | 61 - 151 |
| Perfluorooctanoic acid | 25.0 | 21.1 | | ng/g | | 84 | 62 - 144 |
| Perfluorononanoic acid | 25.0 | 24.5 | | ng/g | | 98 | 62 - 148 |
| Perfluorodecanoic acid | 25.0 | 22.1 | | ng/g | | 88 | 62 - 142 |
| Perfluorotridecanoic acid | 25.0 | 24.1 | | ng/g | | 96 | 57 - 152 |
| Perfluorotetradecanoic acid | 25.0 | 23.2 | | ng/g | | 93 | 60 - 147 |
| Perfluorobutanesulfonic acid | 22.1 | 18.3 | | ng/g | | 83 | 62 - 137 |
| Perfluorohexanesulfonic acid | 22.8 | 19.8 | | ng/g | | 87 | 57 - 135 |
| Perfluorooctanesulfonic acid | 23.1 | 21.9 | | ng/g | | 94 | 48 - 134 |
| NEtFOSAA | 25.0 | 23.4 | | ng/g | | 94 | 50 - 140 |
| NMeFOSAA | 25.0 | 24.7 | | ng/g | | 99 | 53 - 149 |
| Perfluoropentanesulfonic acid | 23.5 | 19.1 | | ng/g | | 82 | 65 - 145 |
| Perfluoroheptanesulfonic acid | 23.8 | 20.9 | | ng/g | | 88 | 67 - 138 |
| Perfluorononanesulfonic acid | 24.0 | 22.9 | | ng/g | | 96 | 63 - 143 |
| Perfluorodecanesulfonic acid | 24.1 | 22.6 | | ng/g | | 94 | 60 - 142 |
| Perfluorooctanesulfonamide | 25.0 | 40.7 | *+ | ng/g | | 163 | 52 - 132 |
| Perfluorobutanoic acid | 25.0 | 22.5 | | ng/g | | 90 | 50 - 185 |
| Perfluoropentanoic acid | 25.0 | 21.0 | | ng/g | | 84 | 69 - 144 |
| HFPODA | 25.0 | 23.1 | | ng/g | | 92 | 29 - 162 |
| DONA | 23.6 | 21.3 | | ng/g | | 90 | 48 - 155 |
| 9Cl-PF3ONS | 23.3 | 22.5 | | ng/g | | 97 | 48 - 146 |
| 11Cl-PF3OUdS | 23.3 | 22.0 | | ng/g | | 95 | 45 - 145 |
| Perfluoroundecanoic acid | 25.0 | 22.5 | | ng/g | | 90 | 62 - 144 |
| Perfluorododecanoic acid | 25.0 | 23.7 | | ng/g | | 95 | 60 - 147 |
| 8:2 Fluorotelomer sulfonic acid | 24.0 | 26.0 | | ng/g | | 109 | 50 - 147 |
| 4:2 Fluorotelomer sulfonic acid | 23.4 | 22.9 | | ng/g | | 98 | 55 - 132 |
| 6:2 Fluorotelomer sulfonic acid | 23.7 | 24.5 | | ng/g | | 104 | 53 - 137 |

| Isotope Dilution | LCS LCS | | Limits |
|------------------|-----------|-----------|----------|
| | %Recovery | Qualifier | |
| M2-4:2 FTS | 117 | | 10 - 169 |
| M2-8:2 FTS | 92 | | 10 - 178 |
| M2-6:2 FTS | 109 | | 10 - 182 |
| 13C5 PFHxA | 104 | | 11 - 138 |
| 13C4 PFHpA | 106 | | 15 - 139 |
| 13C8 PFOA | 115 | | 21 - 133 |
| 13C9 PFNA | 115 | | 15 - 145 |
| 13C6 PFDA | 114 | | 21 - 134 |
| 13C7 PFUnA | 115 | | 15 - 138 |
| 13C2-PFDoDA | 108 | | 28 - 126 |
| 13C2 PFTeDA | 100 | | 10 - 138 |

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QC Sample Results

Client: White Water Associates
Project/Site: KI Sawyer WWTP

Job ID: 410-43806-1

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-139001/2-B

Matrix: Solid

Analysis Batch: 141402

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 139001

| Isotope Dilution | LCS LCS | | Limits |
|------------------|-----------|-----------|----------|
| | %Recovery | Qualifier | |
| 13C3 PFBS | 126 | | 23 - 130 |
| 13C3 PFHxS | 108 | | 24 - 136 |
| 13C8 PFOS | 113 | | 31 - 130 |
| d3-NMeFOSAA | 107 | | 10 - 172 |
| d5-NEtFOSAA | 117 | | 10 - 176 |
| 13C8 FOSA | 100 | | 25 - 135 |
| 13C4 PFBA | 113 | | 12 - 137 |
| 13C5 PFPeA | 119 | | 12 - 135 |
| 13C3 HFPO-DA | 103 | | 10 - 152 |

Lab Sample ID: LCSD 410-139001/3-B

Matrix: Solid

Analysis Batch: 141402

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 139001

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | | RPD | Limit |
|---------------------------------|-------------|-------------|----------------|------|---|------|--------------|---|-----|-------|
| | | | | | | | | | | |
| Perfluorohexanoic acid | 25.0 | 22.1 | | ng/g | | 88 | 61 - 147 | 1 | 30 | |
| Perfluoroheptanoic acid | 25.0 | 22.6 | | ng/g | | 90 | 61 - 151 | 2 | 30 | |
| Perfluorooctanoic acid | 25.0 | 22.2 | | ng/g | | 89 | 62 - 144 | 5 | 30 | |
| Perfluorononanoic acid | 25.0 | 22.9 | | ng/g | | 92 | 62 - 148 | 7 | 30 | |
| Perfluorodecanoic acid | 25.0 | 21.8 | | ng/g | | 87 | 62 - 142 | 1 | 30 | |
| Perfluorotridecanoic acid | 25.0 | 23.5 | | ng/g | | 94 | 57 - 152 | 3 | 30 | |
| Perfluorotetradecanoic acid | 25.0 | 23.1 | | ng/g | | 93 | 60 - 147 | 0 | 30 | |
| Perfluorobutanesulfonic acid | 22.1 | 18.3 | | ng/g | | 83 | 62 - 137 | 0 | 30 | |
| Perfluorohexanesulfonic acid | 22.8 | 20.3 | | ng/g | | 89 | 57 - 135 | 2 | 30 | |
| Perfluorooctanesulfonic acid | 23.1 | 21.1 | | ng/g | | 91 | 48 - 134 | 4 | 30 | |
| NEtFOSAA | 25.0 | 23.0 | | ng/g | | 92 | 50 - 140 | 2 | 30 | |
| NMeFOSAA | 25.0 | 24.9 | | ng/g | | 100 | 53 - 149 | 1 | 30 | |
| Perfluoropentanesulfonic acid | 23.5 | 19.2 | | ng/g | | 82 | 65 - 145 | 0 | 30 | |
| Perfluoroheptanesulfonic acid | 23.8 | 21.0 | | ng/g | | 88 | 67 - 138 | 0 | 30 | |
| Perfluorononanesulfonic acid | 24.0 | 22.3 | | ng/g | | 93 | 63 - 143 | 3 | 30 | |
| Perfluorodecanesulfonic acid | 24.1 | 21.7 | | ng/g | | 90 | 60 - 142 | 4 | 30 | |
| Perfluorooctanesulfonamide | 25.0 | 40.4 | *+ | ng/g | | 162 | 52 - 132 | 1 | 30 | |
| Perfluorobutanoic acid | 25.0 | 22.2 | | ng/g | | 89 | 50 - 185 | 2 | 30 | |
| Perfluoropentanoic acid | 25.0 | 21.4 | | ng/g | | 86 | 69 - 144 | 2 | 30 | |
| HFPODA | 25.0 | 22.2 | | ng/g | | 89 | 29 - 162 | 4 | 30 | |
| DONA | 23.6 | 21.1 | | ng/g | | 89 | 48 - 155 | 1 | 30 | |
| 9Cl-PF3ONS | 23.3 | 21.7 | | ng/g | | 93 | 48 - 146 | 4 | 30 | |
| 11Cl-PF3OUdS | 23.3 | 20.7 | | ng/g | | 89 | 45 - 145 | 6 | 30 | |
| Perfluoroundecanoic acid | 25.0 | 23.0 | | ng/g | | 92 | 62 - 144 | 2 | 30 | |
| Perfluorododecanoic acid | 25.0 | 22.7 | | ng/g | | 91 | 60 - 147 | 4 | 30 | |
| 8:2 Fluorotelomer sulfonic acid | 24.0 | 24.6 | | ng/g | | 103 | 50 - 147 | 6 | 30 | |
| 4:2 Fluorotelomer sulfonic acid | 23.4 | 22.8 | | ng/g | | 98 | 55 - 132 | 0 | 30 | |
| 6:2 Fluorotelomer sulfonic acid | 23.7 | 23.4 | | ng/g | | 99 | 53 - 137 | 5 | 30 | |

| Isotope Dilution | LCSD LCSD | | Limits |
|------------------|-----------|-----------|----------|
| | %Recovery | Qualifier | |
| M2-4:2 FTS | 113 | | 10 - 169 |
| M2-8:2 FTS | 91 | | 10 - 178 |
| M2-6:2 FTS | 109 | | 10 - 182 |
| 13C5 PFHxA | 102 | | 11 - 138 |

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QC Sample Results

Client: White Water Associates
Project/Site: KI Sawyer WWTP

Job ID: 410-43806-1

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCSD 410-139001/3-B

Matrix: Solid

Analysis Batch: 141402

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 139001

| Isotope Dilution | LCSD | | Limits |
|------------------|-----------|-----------|----------|
| | %Recovery | Qualifier | |
| 13C4 PFHpA | 107 | | 15 - 139 |
| 13C8 PFOA | 107 | | 21 - 133 |
| 13C9 PFNA | 100 | | 15 - 145 |
| 13C6 PFDA | 104 | | 21 - 134 |
| 13C7 PFUnA | 102 | | 15 - 138 |
| 13C2-PFDoDA | 98 | | 28 - 126 |
| 13C2 PFTeDA | 85 | | 10 - 138 |
| 13C3 PFBS | 116 | | 23 - 130 |
| 13C3 PFHxS | 104 | | 24 - 136 |
| 13C8 PFOS | 102 | | 31 - 130 |
| d3-NMeFOSAA | 98 | | 10 - 172 |
| d5-NEtFOSAA | 109 | | 10 - 176 |
| 13C8 FOSA | 91 | | 25 - 135 |
| 13C4 PFBA | 103 | | 12 - 137 |
| 13C5 PFPeA | 105 | | 12 - 135 |
| 13C3 HFPO-DA | 101 | | 10 - 152 |

Method: EPA 537.1 - EPA 537.1, Ver 1.0 Nov 2018

Lab Sample ID: MB 410-138899/1-A

Matrix: Drinking Water

Analysis Batch: 140602

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 138899

| Analyte | MB | | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|-----|------|------|---|----------------|----------------|---------|
| | Result | Qualifier | | | | | | | |
| Perfluorohexanoic acid | ND | | 2.0 | 0.50 | ng/L | | 06/17/21 08:04 | 06/22/21 13:24 | 1 |
| Perfluoroheptanoic acid | ND | | 2.0 | 0.50 | ng/L | | 06/17/21 08:04 | 06/22/21 13:24 | 1 |
| Perfluorooctanoic acid | ND | | 2.0 | 0.50 | ng/L | | 06/17/21 08:04 | 06/22/21 13:24 | 1 |
| Perfluorononanoic acid | ND | | 2.0 | 0.50 | ng/L | | 06/17/21 08:04 | 06/22/21 13:24 | 1 |
| Perfluorodecanoic acid | ND | | 2.0 | 0.50 | ng/L | | 06/17/21 08:04 | 06/22/21 13:24 | 1 |
| Perfluorotridecanoic acid | ND | | 2.0 | 0.50 | ng/L | | 06/17/21 08:04 | 06/22/21 13:24 | 1 |
| Perfluorotetradecanoic acid | ND | | 2.0 | 0.50 | ng/L | | 06/17/21 08:04 | 06/22/21 13:24 | 1 |
| Perfluorobutanesulfonic acid | ND | | 2.0 | 0.50 | ng/L | | 06/17/21 08:04 | 06/22/21 13:24 | 1 |
| Perfluorohexanesulfonic acid | ND | | 2.0 | 0.50 | ng/L | | 06/17/21 08:04 | 06/22/21 13:24 | 1 |
| Perfluorooctanesulfonic acid | ND | | 2.0 | 0.50 | ng/L | | 06/17/21 08:04 | 06/22/21 13:24 | 1 |
| NEtFOSAA | ND | | 2.0 | 0.50 | ng/L | | 06/17/21 08:04 | 06/22/21 13:24 | 1 |
| NMeFOSAA | ND | | 2.0 | 0.50 | ng/L | | 06/17/21 08:04 | 06/22/21 13:24 | 1 |
| Perfluoroundecanoic acid | ND | | 2.0 | 0.50 | ng/L | | 06/17/21 08:04 | 06/22/21 13:24 | 1 |
| Perfluorododecanoic acid | ND | | 2.0 | 0.50 | ng/L | | 06/17/21 08:04 | 06/22/21 13:24 | 1 |
| HFPODA | ND | | 2.0 | 0.50 | ng/L | | 06/17/21 08:04 | 06/22/21 13:24 | 1 |
| 9Cl-PF3ONS | ND | | 2.0 | 0.50 | ng/L | | 06/17/21 08:04 | 06/22/21 13:24 | 1 |
| 11Cl-PF3OUdS | ND | | 2.0 | 0.50 | ng/L | | 06/17/21 08:04 | 06/22/21 13:24 | 1 |
| DONA | ND | | 2.0 | 0.50 | ng/L | | 06/17/21 08:04 | 06/22/21 13:24 | 1 |

| Surrogate | MB | | Limits | Prepared | Analyzed | Dil Fac |
|--------------|-----------|-----------|----------|----------------|----------------|---------|
| | %Recovery | Qualifier | | | | |
| 13C2 PFDA | 80 | | 70 - 130 | 06/17/21 08:04 | 06/22/21 13:24 | 1 |
| 13C2 PFHxA | 85 | | 70 - 130 | 06/17/21 08:04 | 06/22/21 13:24 | 1 |
| 13C3 HFPO-DA | 86 | | 70 - 130 | 06/17/21 08:04 | 06/22/21 13:24 | 1 |
| d5-NEtFOSAA | 75 | | 70 - 130 | 06/17/21 08:04 | 06/22/21 13:24 | 1 |

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QC Sample Results

Client: White Water Associates
Project/Site: KI Sawyer WWTP

Job ID: 410-43806-1

Method: EPA 537.1 - EPA 537.1, Ver 1.0 Nov 2018 (Continued)

Lab Sample ID: LCS 410-138899/2-A

Matrix: Drinking Water

Analysis Batch: 140602

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 138899

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|------------------------------|-------------|------------|---------------|------|---|------|--------------|
| Perfluorohexanoic acid | 100 | 95.1 | E | ng/L | | 95 | 70 - 130 |
| Perfluoroheptanoic acid | 100 | 94.3 | E | ng/L | | 94 | 70 - 130 |
| Perfluorooctanoic acid | 100 | 95.6 | E | ng/L | | 96 | 70 - 130 |
| Perfluorononanoic acid | 100 | 93.9 | E | ng/L | | 94 | 70 - 130 |
| Perfluorodecanoic acid | 100 | 94.0 | E | ng/L | | 94 | 70 - 130 |
| Perfluorotridecanoic acid | 100 | 89.4 | E | ng/L | | 89 | 70 - 130 |
| Perfluorotetradecanoic acid | 100 | 89.3 | E | ng/L | | 89 | 70 - 130 |
| Perfluorobutanesulfonic acid | 88.5 | 77.1 | E | ng/L | | 87 | 70 - 130 |
| Perfluorohexanesulfonic acid | 91.2 | 89.0 | E | ng/L | | 98 | 70 - 130 |
| Perfluorooctanesulfonic acid | 92.6 | 88.3 | E | ng/L | | 95 | 70 - 130 |
| NEtFOSAA | 100 | 84.6 | E | ng/L | | 85 | 70 - 130 |
| NMeFOSAA | 100 | 85.8 | E | ng/L | | 86 | 70 - 130 |
| Perfluoroundecanoic acid | 100 | 90.8 | E | ng/L | | 91 | 70 - 130 |
| Perfluorododecanoic acid | 100 | 90.9 | E | ng/L | | 91 | 70 - 130 |
| HFPODA | 100 | 97.0 | E | ng/L | | 97 | 70 - 130 |
| 9CI-PF3ONS | 93.0 | 87.2 | E | ng/L | | 94 | 70 - 130 |
| 11CI-PF3OUdS | 93.0 | 86.9 | E | ng/L | | 93 | 70 - 130 |
| DONA | 94.5 | 91.4 | E | ng/L | | 97 | 70 - 130 |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|--------------|---------------|---------------|----------|
| 13C2 PFDA | 85 | | 70 - 130 |
| 13C2 PFHxA | 89 | | 70 - 130 |
| 13C3 HFPO-DA | 90 | | 70 - 130 |
| d5-NEtFOSAA | 72 | | 70 - 130 |

Lab Sample ID: LCSD 410-138899/3-A

Matrix: Drinking Water

Analysis Batch: 140602

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 138899

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|------------------------------|-------------|-------------|----------------|------|---|------|--------------|-----|-----------|
| Perfluorohexanoic acid | 100 | 101 | E | ng/L | | 101 | 70 - 130 | 6 | 30 |
| Perfluoroheptanoic acid | 100 | 95.4 | E | ng/L | | 95 | 70 - 130 | 1 | 30 |
| Perfluorooctanoic acid | 100 | 96.9 | E | ng/L | | 97 | 70 - 130 | 1 | 30 |
| Perfluorononanoic acid | 100 | 96.7 | E | ng/L | | 97 | 70 - 130 | 3 | 30 |
| Perfluorodecanoic acid | 100 | 96.0 | E | ng/L | | 96 | 70 - 130 | 2 | 30 |
| Perfluorotridecanoic acid | 100 | 88.6 | E | ng/L | | 89 | 70 - 130 | 1 | 30 |
| Perfluorotetradecanoic acid | 100 | 89.1 | E | ng/L | | 89 | 70 - 130 | 0 | 30 |
| Perfluorobutanesulfonic acid | 88.5 | 84.3 | E | ng/L | | 95 | 70 - 130 | 9 | 30 |
| Perfluorohexanesulfonic acid | 91.2 | 88.5 | E | ng/L | | 97 | 70 - 130 | 1 | 30 |
| Perfluorooctanesulfonic acid | 92.6 | 88.5 | E | ng/L | | 96 | 70 - 130 | 0 | 30 |
| NEtFOSAA | 100 | 82.3 | E | ng/L | | 82 | 70 - 130 | 3 | 30 |
| NMeFOSAA | 100 | 84.4 | E | ng/L | | 84 | 70 - 130 | 2 | 30 |
| Perfluoroundecanoic acid | 100 | 90.6 | E | ng/L | | 91 | 70 - 130 | 0 | 30 |
| Perfluorododecanoic acid | 100 | 91.3 | E | ng/L | | 91 | 70 - 130 | 0 | 30 |
| HFPODA | 100 | 102 | E | ng/L | | 102 | 70 - 130 | 5 | 30 |
| 9CI-PF3ONS | 93.0 | 89.4 | E | ng/L | | 96 | 70 - 130 | 3 | 30 |
| 11CI-PF3OUdS | 93.0 | 85.2 | E | ng/L | | 92 | 70 - 130 | 2 | 30 |
| DONA | 94.5 | 93.4 | E | ng/L | | 99 | 70 - 130 | 2 | 30 |

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QC Sample Results

Client: White Water Associates
Project/Site: KI Sawyer WWTP

Job ID: 410-43806-1

Method: EPA 537.1 - EPA 537.1, Ver 1.0 Nov 2018 (Continued)

Lab Sample ID: LCSD 410-138899/3-A

Matrix: Drinking Water

Analysis Batch: 140602

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 138899

| | LCSD | LCSD | |
|--------------|-----------|-----------|----------|
| Surrogate | %Recovery | Qualifier | Limits |
| 13C2 PFDA | 86 | | 70 - 130 |
| 13C2 PFHxA | 93 | | 70 - 130 |
| 13C3 HFPO-DA | 97 | | 70 - 130 |
| d5-NEtFOSAA | 70 | | 70 - 130 |

Lab Sample ID: MB 410-138903/1-A

Matrix: Drinking Water

Analysis Batch: 140602

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 138903

| | MB | MB | | | | | | | | |
|------------------------------|--------|-----------|-----|------|------|---|----------------|----------------|---------|--|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac | |
| Perfluorohexanoic acid | ND | | 2.0 | 0.50 | ng/L | | 06/17/21 08:07 | 06/22/21 18:03 | 1 | |
| Perfluoroheptanoic acid | ND | | 2.0 | 0.50 | ng/L | | 06/17/21 08:07 | 06/22/21 18:03 | 1 | |
| Perfluorooctanoic acid | ND | | 2.0 | 0.50 | ng/L | | 06/17/21 08:07 | 06/22/21 18:03 | 1 | |
| Perfluorononanoic acid | ND | | 2.0 | 0.50 | ng/L | | 06/17/21 08:07 | 06/22/21 18:03 | 1 | |
| Perfluorodecanoic acid | ND | | 2.0 | 0.50 | ng/L | | 06/17/21 08:07 | 06/22/21 18:03 | 1 | |
| Perfluorotridecanoic acid | ND | | 2.0 | 0.50 | ng/L | | 06/17/21 08:07 | 06/22/21 18:03 | 1 | |
| Perfluorotetradecanoic acid | ND | | 2.0 | 0.50 | ng/L | | 06/17/21 08:07 | 06/22/21 18:03 | 1 | |
| Perfluorobutanesulfonic acid | ND | | 2.0 | 0.50 | ng/L | | 06/17/21 08:07 | 06/22/21 18:03 | 1 | |
| Perfluorohexanesulfonic acid | ND | | 2.0 | 0.50 | ng/L | | 06/17/21 08:07 | 06/22/21 18:03 | 1 | |
| Perfluorooctanesulfonic acid | ND | | 2.0 | 0.50 | ng/L | | 06/17/21 08:07 | 06/22/21 18:03 | 1 | |
| NEtFOSAA | ND | | 2.0 | 0.50 | ng/L | | 06/17/21 08:07 | 06/22/21 18:03 | 1 | |
| NMeFOSAA | ND | | 2.0 | 0.50 | ng/L | | 06/17/21 08:07 | 06/22/21 18:03 | 1 | |
| Perfluoroundecanoic acid | ND | | 2.0 | 0.50 | ng/L | | 06/17/21 08:07 | 06/22/21 18:03 | 1 | |
| Perfluorododecanoic acid | ND | | 2.0 | 0.50 | ng/L | | 06/17/21 08:07 | 06/22/21 18:03 | 1 | |
| HFPODA | ND | | 2.0 | 0.50 | ng/L | | 06/17/21 08:07 | 06/22/21 18:03 | 1 | |
| 9CI-PF3ONS | ND | | 2.0 | 0.50 | ng/L | | 06/17/21 08:07 | 06/22/21 18:03 | 1 | |
| 11CI-PF3OUdS | ND | | 2.0 | 0.50 | ng/L | | 06/17/21 08:07 | 06/22/21 18:03 | 1 | |
| DONA | ND | | 2.0 | 0.50 | ng/L | | 06/17/21 08:07 | 06/22/21 18:03 | 1 | |

| | MB | MB | | | | | | | | |
|--------------|-----------|-----------|----------|----------------|----------------|---------|--|--|--|--|
| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac | | | | |
| 13C2 PFDA | 85 | | 70 - 130 | 06/17/21 08:07 | 06/22/21 18:03 | 1 | | | | |
| 13C2 PFHxA | 90 | | 70 - 130 | 06/17/21 08:07 | 06/22/21 18:03 | 1 | | | | |
| 13C3 HFPO-DA | 84 | | 70 - 130 | 06/17/21 08:07 | 06/22/21 18:03 | 1 | | | | |
| d5-NEtFOSAA | 78 | | 70 - 130 | 06/17/21 08:07 | 06/22/21 18:03 | 1 | | | | |

Lab Sample ID: LCS 410-138903/2-A

Matrix: Drinking Water

Analysis Batch: 140602

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 138903

| | Spike | LCS | LCS | | | | | %Rec. | | |
|------------------------------|-------|--------|-----------|------|---|------|----------|-------|--|--|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | | | |
| Perfluorohexanoic acid | 25.6 | 22.8 | | ng/L | | 89 | 70 - 130 | | | |
| Perfluoroheptanoic acid | 25.6 | 23.7 | | ng/L | | 93 | 70 - 130 | | | |
| Perfluorooctanoic acid | 25.6 | 23.5 | | ng/L | | 92 | 70 - 130 | | | |
| Perfluorononanoic acid | 25.6 | 23.9 | | ng/L | | 93 | 70 - 130 | | | |
| Perfluorodecanoic acid | 25.6 | 23.7 | | ng/L | | 93 | 70 - 130 | | | |
| Perfluorotridecanoic acid | 25.6 | 22.1 | | ng/L | | 86 | 70 - 130 | | | |
| Perfluorotetradecanoic acid | 25.6 | 22.6 | | ng/L | | 88 | 70 - 130 | | | |
| Perfluorobutanesulfonic acid | 22.7 | 19.5 | | ng/L | | 86 | 70 - 130 | | | |

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QC Sample Results

Client: White Water Associates
Project/Site: KI Sawyer WWTP

Job ID: 410-43806-1

Method: EPA 537.1 - EPA 537.1, Ver 1.0 Nov 2018 (Continued)

Lab Sample ID: LCS 410-138903/2-A

Matrix: Drinking Water

Analysis Batch: 140602

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 138903

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|------------------------------|-------------|------------|---------------|------|---|------|--------------|
| Perfluorohexanesulfonic acid | 23.3 | 21.8 | | ng/L | | 93 | 70 - 130 |
| Perfluorooctanesulfonic acid | 23.7 | 21.1 | | ng/L | | 89 | 70 - 130 |
| NEtFOSAA | 25.6 | 20.6 | | ng/L | | 80 | 70 - 130 |
| NMeFOSAA | 25.6 | 20.9 | | ng/L | | 82 | 70 - 130 |
| Perfluoroundecanoic acid | 25.6 | 23.0 | | ng/L | | 90 | 70 - 130 |
| Perfluorododecanoic acid | 25.6 | 22.6 | | ng/L | | 88 | 70 - 130 |
| HFPODA | 25.6 | 22.1 | | ng/L | | 86 | 70 - 130 |
| 9Cl-PF3ONS | 23.8 | 20.6 | | ng/L | | 86 | 70 - 130 |
| 11Cl-PF3OUdS | 23.8 | 20.7 | | ng/L | | 87 | 70 - 130 |
| DONA | 24.2 | 21.7 | | ng/L | | 90 | 70 - 130 |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|--------------|---------------|---------------|----------|
| 13C2 PFDA | 86 | | 70 - 130 |
| 13C2 PFHxA | 86 | | 70 - 130 |
| 13C3 HFPO-DA | 83 | | 70 - 130 |
| d5-NEtFOSAA | 74 | | 70 - 130 |

Lab Sample ID: LCSD 410-138903/3-A

Matrix: Drinking Water

Analysis Batch: 140602

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 138903

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|------------------------------|-------------|-------------|----------------|------|---|------|--------------|-----|-----------|
| Perfluorohexanoic acid | 25.6 | 23.7 | | ng/L | | 93 | 70 - 130 | 4 | 30 |
| Perfluoroheptanoic acid | 25.6 | 23.9 | | ng/L | | 93 | 70 - 130 | 0 | 30 |
| Perfluorooctanoic acid | 25.6 | 23.3 | | ng/L | | 91 | 70 - 130 | 1 | 30 |
| Perfluorononanoic acid | 25.6 | 23.4 | | ng/L | | 91 | 70 - 130 | 2 | 30 |
| Perfluorodecanoic acid | 25.6 | 22.9 | | ng/L | | 90 | 70 - 130 | 4 | 30 |
| Perfluorotridecanoic acid | 25.6 | 21.7 | | ng/L | | 85 | 70 - 130 | 2 | 30 |
| Perfluorotetradecanoic acid | 25.6 | 22.2 | | ng/L | | 87 | 70 - 130 | 2 | 30 |
| Perfluorobutanesulfonic acid | 22.7 | 20.9 | | ng/L | | 92 | 70 - 130 | 7 | 30 |
| Perfluorohexanesulfonic acid | 23.3 | 21.8 | | ng/L | | 93 | 70 - 130 | 0 | 30 |
| Perfluorooctanesulfonic acid | 23.7 | 20.9 | | ng/L | | 88 | 70 - 130 | 1 | 30 |
| NEtFOSAA | 25.6 | 20.8 | | ng/L | | 81 | 70 - 130 | 1 | 30 |
| NMeFOSAA | 25.6 | 20.2 | | ng/L | | 79 | 70 - 130 | 3 | 30 |
| Perfluoroundecanoic acid | 25.6 | 22.8 | | ng/L | | 89 | 70 - 130 | 1 | 30 |
| Perfluorododecanoic acid | 25.6 | 22.3 | | ng/L | | 87 | 70 - 130 | 1 | 30 |
| HFPODA | 25.6 | 22.4 | | ng/L | | 88 | 70 - 130 | 1 | 30 |
| 9Cl-PF3ONS | 23.8 | 20.5 | | ng/L | | 86 | 70 - 130 | 1 | 30 |
| 11Cl-PF3OUdS | 23.8 | 20.4 | | ng/L | | 86 | 70 - 130 | 2 | 30 |
| DONA | 24.2 | 21.4 | | ng/L | | 89 | 70 - 130 | 1 | 30 |

| Surrogate | LCSD %Recovery | LCSD Qualifier | Limits |
|--------------|----------------|----------------|----------|
| 13C2 PFDA | 89 | | 70 - 130 |
| 13C2 PFHxA | 94 | | 70 - 130 |
| 13C3 HFPO-DA | 91 | | 70 - 130 |
| d5-NEtFOSAA | 78 | | 70 - 130 |

QC Association Summary

Client: White Water Associates
Project/Site: KI Sawyer WWTP

Job ID: 410-43806-1

LCMS

Prep Batch: 138899

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|----------------|---------------|------------|
| 410-43806-4 | Trip Blank | Total/NA | Drinking Water | 537.1 DW Prep | |
| MB 410-138899/1-A | Method Blank | Total/NA | Drinking Water | 537.1 DW Prep | |
| LCS 410-138899/2-A | Lab Control Sample | Total/NA | Drinking Water | 537.1 DW Prep | |
| LCSD 410-138899/3-A | Lab Control Sample Dup | Total/NA | Drinking Water | 537.1 DW Prep | |

Prep Batch: 138903

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|----------------|---------------|------------|
| 410-43806-1 | Well 5 | Total/NA | Drinking Water | 537.1 DW Prep | |
| 410-43806-2 | TP 001 | Total/NA | Drinking Water | 537.1 DW Prep | |
| 410-43806-3 | Field Blank | Total/NA | Drinking Water | 537.1 DW Prep | |
| MB 410-138903/1-A | Method Blank | Total/NA | Drinking Water | 537.1 DW Prep | |
| LCS 410-138903/2-A | Lab Control Sample | Total/NA | Drinking Water | 537.1 DW Prep | |
| LCSD 410-138903/3-A | Lab Control Sample Dup | Total/NA | Drinking Water | 537.1 DW Prep | |

Prep Batch: 139001

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|---------------|------------|
| 410-43806-5 | Biosolids West | Total/NA | Solid | EPA 537 (Mod) | |
| MB 410-139001/1-B | Method Blank | Total/NA | Solid | EPA 537 (Mod) | |
| LCS 410-139001/2-B | Lab Control Sample | Total/NA | Solid | EPA 537 (Mod) | |
| LCSD 410-139001/3-B | Lab Control Sample Dup | Total/NA | Solid | EPA 537 (Mod) | |

Cleanup Batch: 139041

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|-----------------|------------|
| 410-43806-5 | Biosolids West | Total/NA | Solid | Extract Aliquot | 139001 |
| MB 410-139001/1-B | Method Blank | Total/NA | Solid | Extract Aliquot | 139001 |
| LCS 410-139001/2-B | Lab Control Sample | Total/NA | Solid | Extract Aliquot | 139001 |
| LCSD 410-139001/3-B | Lab Control Sample Dup | Total/NA | Solid | Extract Aliquot | 139001 |

Analysis Batch: 140602

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|----------------|-----------|------------|
| 410-43806-1 | Well 5 | Total/NA | Drinking Water | EPA 537.1 | 138903 |
| 410-43806-2 | TP 001 | Total/NA | Drinking Water | EPA 537.1 | 138903 |
| 410-43806-3 | Field Blank | Total/NA | Drinking Water | EPA 537.1 | 138903 |
| 410-43806-4 | Trip Blank | Total/NA | Drinking Water | EPA 537.1 | 138899 |
| MB 410-138899/1-A | Method Blank | Total/NA | Drinking Water | EPA 537.1 | 138899 |
| MB 410-138903/1-A | Method Blank | Total/NA | Drinking Water | EPA 537.1 | 138903 |
| LCS 410-138899/2-A | Lab Control Sample | Total/NA | Drinking Water | EPA 537.1 | 138899 |
| LCS 410-138903/2-A | Lab Control Sample | Total/NA | Drinking Water | EPA 537.1 | 138903 |
| LCSD 410-138899/3-A | Lab Control Sample Dup | Total/NA | Drinking Water | EPA 537.1 | 138899 |
| LCSD 410-138903/3-A | Lab Control Sample Dup | Total/NA | Drinking Water | EPA 537.1 | 138903 |

Analysis Batch: 141402

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|---------------|------------|
| 410-43806-5 | Biosolids West | Total/NA | Solid | EPA 537 (Mod) | 139041 |
| MB 410-139001/1-B | Method Blank | Total/NA | Solid | EPA 537 (Mod) | 139041 |
| LCS 410-139001/2-B | Lab Control Sample | Total/NA | Solid | EPA 537 (Mod) | 139041 |
| LCSD 410-139001/3-B | Lab Control Sample Dup | Total/NA | Solid | EPA 537 (Mod) | 139041 |

Prep Batch: 141840

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|------------------|-----------|----------------|---------------|------------|
| 410-43806-4 - RE | Trip Blank | Total/NA | Drinking Water | 537.1 DW Prep | |

Eurofins Lancaster Laboratories Env, LLC

QC Association Summary

Client: White Water Associates
Project/Site: KI Sawyer WWTP

Job ID: 410-43806-1

LCMS (Continued)

Prep Batch: 141840 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|----------------|---------------|------------|
| MB 410-141840/1-A | Method Blank | Total/NA | Drinking Water | 537.1 DW Prep | |
| LCS 410-141840/2-A | Lab Control Sample | Total/NA | Drinking Water | 537.1 DW Prep | |
| LCSD 410-141840/3-A | Lab Control Sample Dup | Total/NA | Drinking Water | 537.1 DW Prep | |

Analysis Batch: 142375

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|----------------|-----------|------------|
| 410-43806-4 - RE | Trip Blank | Total/NA | Drinking Water | EPA 537.1 | 141840 |
| MB 410-141840/1-A | Method Blank | Total/NA | Drinking Water | EPA 537.1 | 141840 |
| LCS 410-141840/2-A | Lab Control Sample | Total/NA | Drinking Water | EPA 537.1 | 141840 |
| LCSD 410-141840/3-A | Lab Control Sample Dup | Total/NA | Drinking Water | EPA 537.1 | 141840 |

Prep Batch: 143098

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|----------------|---------------|------------|
| 410-43806-3 - RE | Field Blank | Total/NA | Drinking Water | 537.1 DW Prep | |
| MB 410-143098/1-A | Method Blank | Total/NA | Drinking Water | 537.1 DW Prep | |
| LCS 410-143098/2-A | Lab Control Sample | Total/NA | Drinking Water | 537.1 DW Prep | |
| LCSD 410-143098/3-A | Lab Control Sample Dup | Total/NA | Drinking Water | 537.1 DW Prep | |

Analysis Batch: 143366

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|----------------|-----------|------------|
| 410-43806-3 - RE | Field Blank | Total/NA | Drinking Water | EPA 537.1 | 143098 |
| MB 410-143098/1-A | Method Blank | Total/NA | Drinking Water | EPA 537.1 | 143098 |
| LCS 410-143098/2-A | Lab Control Sample | Total/NA | Drinking Water | EPA 537.1 | 143098 |
| LCSD 410-143098/3-A | Lab Control Sample Dup | Total/NA | Drinking Water | EPA 537.1 | 143098 |

General Chemistry

Analysis Batch: 138892

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|----------|------------|
| 410-43806-5 | Biosolids West | Total/NA | Solid | Moisture | |

Lab Chronicle

Client: White Water Associates
Project/Site: KI Sawyer WWTP

Job ID: 410-43806-1

Client Sample ID: Well 5

Lab Sample ID: 410-43806-1

Date Collected: 06/15/21 09:15

Matrix: Drinking Water

Date Received: 06/16/21 11:43

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|---------------|-----|-----------------|--------------|----------------------|---------|------|
| Total/NA | Prep | 537.1 DW Prep | | | 138903 | 06/17/21 08:07 | RDL8 | ELLE |
| Total/NA | Analysis | EPA 537.1 | | 1 | 140602 | 06/22/21 19:59 | Y6ZN | ELLE |

Client Sample ID: TP 001

Lab Sample ID: 410-43806-2

Date Collected: 06/15/21 09:20

Matrix: Drinking Water

Date Received: 06/16/21 11:43

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|---------------|-----|-----------------|--------------|----------------------|---------|------|
| Total/NA | Prep | 537.1 DW Prep | | | 138903 | 06/17/21 08:07 | RDL8 | ELLE |
| Total/NA | Analysis | EPA 537.1 | | 1 | 140602 | 06/22/21 20:11 | Y6ZN | ELLE |

Client Sample ID: Field Blank

Lab Sample ID: 410-43806-3

Date Collected: 06/15/21 09:10

Matrix: Drinking Water

Date Received: 06/16/21 11:43

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|---------------|-----|-----------------|--------------|----------------------|---------|------|
| Total/NA | Prep | 537.1 DW Prep | | | 138903 | 06/17/21 08:07 | RDL8 | ELLE |
| Total/NA | Analysis | EPA 537.1 | | 1 | 140602 | 06/22/21 20:23 | Y6ZN | ELLE |
| Total/NA | Prep | 537.1 DW Prep | RE | | 143098 | 06/29/21 04:01 | GK2L | ELLE |
| Total/NA | Analysis | EPA 537.1 | RE | 1 | 143366 | 06/29/21 20:09 | Y6ZN | ELLE |

Client Sample ID: Trip Blank

Lab Sample ID: 410-43806-4

Date Collected: 06/15/21 09:45

Matrix: Drinking Water

Date Received: 06/16/21 11:43

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|---------------|-----|-----------------|--------------|----------------------|---------|------|
| Total/NA | Prep | 537.1 DW Prep | | | 138899 | 06/17/21 08:04 | RDL8 | ELLE |
| Total/NA | Analysis | EPA 537.1 | | 1 | 140602 | 06/22/21 17:40 | Y6ZN | ELLE |
| Total/NA | Prep | 537.1 DW Prep | RE | | 141840 | 06/24/21 17:11 | GU2F | ELLE |
| Total/NA | Analysis | EPA 537.1 | RE | 1 | 142375 | 06/26/21 04:05 | DCS9 | ELLE |

Client Sample ID: Biosolids West

Lab Sample ID: 410-43806-5

Date Collected: 06/15/21 09:40

Matrix: Solid

Date Received: 06/16/21 11:43

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|------|
| Total/NA | Analysis | Moisture | | 1 | 138892 | 06/17/21 07:57 | UVJN | ELLE |

Client Sample ID: Biosolids West

Lab Sample ID: 410-43806-5

Date Collected: 06/15/21 09:40

Matrix: Solid

Date Received: 06/16/21 11:43

Percent Solids: 2.4

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|-----------------|-----|-----------------|--------------|----------------------|---------|------|
| Total/NA | Prep | EPA 537 (Mod) | | | 139001 | 06/17/21 10:34 | PR5J | ELLE |
| Total/NA | Cleanup | Extract Aliquot | | | 139041 | 06/17/21 11:55 | PR5J | ELLE |
| Total/NA | Analysis | EPA 537 (Mod) | | 1 | 141402 | 06/24/21 17:34 | JVK6 | ELLE |

Eurofins Lancaster Laboratories Env, LLC

Lab Chronicle

Client: White Water Associates
Project/Site: KI Sawyer WWTP

Job ID: 410-43806-1

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

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Accreditation/Certification Summary

Client: White Water Associates
Project/Site: KI Sawyer WWTP

Job ID: 410-43806-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

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

| Authority | Program | Identification Number | Expiration Date |
|-----------|---------|-----------------------|-----------------|
| Michigan | State | 9930 | 01-31-22 |

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 |
|-----------------|---------------|----------------|---------------------------------|
| EPA 537 (Mod) | EPA 537 (Mod) | Solid | 11CI-PF3OUdS |
| EPA 537 (Mod) | EPA 537 (Mod) | Solid | 4:2 Fluorotelomer sulfonic acid |
| EPA 537 (Mod) | EPA 537 (Mod) | Solid | 6:2 Fluorotelomer sulfonic acid |
| EPA 537 (Mod) | EPA 537 (Mod) | Solid | 8:2 Fluorotelomer sulfonic acid |
| EPA 537 (Mod) | EPA 537 (Mod) | Solid | 9CI-PF3ONS |
| EPA 537 (Mod) | EPA 537 (Mod) | Solid | DONA |
| EPA 537 (Mod) | EPA 537 (Mod) | Solid | HFPODA |
| EPA 537 (Mod) | EPA 537 (Mod) | Solid | NEtFOSAA |
| EPA 537 (Mod) | EPA 537 (Mod) | Solid | NMeFOSAA |
| EPA 537 (Mod) | EPA 537 (Mod) | Solid | Perfluorobutanesulfonic acid |
| EPA 537 (Mod) | EPA 537 (Mod) | Solid | Perfluorobutanoic acid |
| EPA 537 (Mod) | EPA 537 (Mod) | Solid | Perfluorodecanesulfonic acid |
| EPA 537 (Mod) | EPA 537 (Mod) | Solid | Perfluorodecanoic acid |
| EPA 537 (Mod) | EPA 537 (Mod) | Solid | Perfluorododecanoic acid |
| EPA 537 (Mod) | EPA 537 (Mod) | Solid | Perfluoroheptanesulfonic acid |
| EPA 537 (Mod) | EPA 537 (Mod) | Solid | Perfluoroheptanoic acid |
| EPA 537 (Mod) | EPA 537 (Mod) | Solid | Perfluorohexanesulfonic acid |
| EPA 537 (Mod) | EPA 537 (Mod) | Solid | Perfluorohexanoic acid |
| EPA 537 (Mod) | EPA 537 (Mod) | Solid | Perfluorononanesulfonic acid |
| EPA 537 (Mod) | EPA 537 (Mod) | Solid | Perfluorononanoic acid |
| EPA 537 (Mod) | EPA 537 (Mod) | Solid | Perfluorooctanesulfonamide |
| EPA 537 (Mod) | EPA 537 (Mod) | Solid | Perfluorooctanesulfonic acid |
| EPA 537 (Mod) | EPA 537 (Mod) | Solid | Perfluorooctanoic acid |
| EPA 537 (Mod) | EPA 537 (Mod) | Solid | Perfluoropentanesulfonic acid |
| EPA 537 (Mod) | EPA 537 (Mod) | Solid | Perfluoropentanoic acid |
| EPA 537 (Mod) | EPA 537 (Mod) | Solid | Perfluorotetradecanoic acid |
| EPA 537 (Mod) | EPA 537 (Mod) | Solid | Perfluorotridecanoic acid |
| EPA 537 (Mod) | EPA 537 (Mod) | Solid | Perfluoroundecanoic acid |
| EPA 537.1 | 537.1 DW Prep | Drinking Water | 11CI-PF3OUdS |
| EPA 537.1 | 537.1 DW Prep | Drinking Water | 9CI-PF3ONS |
| EPA 537.1 | 537.1 DW Prep | Drinking Water | DONA |
| EPA 537.1 | 537.1 DW Prep | Drinking Water | HFPODA |
| EPA 537.1 | 537.1 DW Prep | Drinking Water | NEtFOSAA |
| EPA 537.1 | 537.1 DW Prep | Drinking Water | NMeFOSAA |
| EPA 537.1 | 537.1 DW Prep | Drinking Water | Perfluorobutanesulfonic acid |
| EPA 537.1 | 537.1 DW Prep | Drinking Water | Perfluorodecanoic acid |
| EPA 537.1 | 537.1 DW Prep | Drinking Water | Perfluorododecanoic acid |
| EPA 537.1 | 537.1 DW Prep | Drinking Water | Perfluoroheptanoic acid |
| EPA 537.1 | 537.1 DW Prep | Drinking Water | Perfluorohexanesulfonic acid |
| EPA 537.1 | 537.1 DW Prep | Drinking Water | Perfluorohexanoic acid |
| EPA 537.1 | 537.1 DW Prep | Drinking Water | Perfluorononanoic acid |
| EPA 537.1 | 537.1 DW Prep | Drinking Water | Perfluorooctanesulfonic acid |
| EPA 537.1 | 537.1 DW Prep | Drinking Water | Perfluorooctanoic acid |
| EPA 537.1 | 537.1 DW Prep | Drinking Water | Perfluorotetradecanoic acid |
| EPA 537.1 | 537.1 DW Prep | Drinking Water | Perfluorotridecanoic acid |

Accreditation/Certification Summary

Client: White Water Associates
Project/Site: KI Sawyer WWTP

Job ID: 410-43806-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC (Continued)

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

| Authority | Program | Identification Number | Expiration Date |
|-----------|---------------|-----------------------|--------------------------|
| Michigan | State | 9930 | 01-31-22 |
| EPA 537.1 | 537.1 DW Prep | Drinking Water | Perfluoroundecanoic acid |
| Moisture | Solid | Percent Moisture | |

Method Summary

Client: White Water Associates
Project/Site: KI Sawyer WWTP

Job ID: 410-43806-1

| Method | Method Description | Protocol | Laboratory |
|-----------------|--|----------|------------|
| EPA 537 (Mod) | EPA 537 Isotope Dilution | EPA | ELLE |
| EPA 537.1 | EPA 537.1, Ver 1.0 Nov 2018 | EPA | ELLE |
| Moisture | Percent Moisture | EPA | ELLE |
| 537.1 DW Prep | Extraction of Perfluorinated Alkyl Acids | EPA | ELLE |
| EPA 537 (Mod) | EPA 537 Isotope Dilution | EPA | ELLE |
| Extract Aliquot | Preparation, Extract Aliquot | None | ELLE |

Protocol References:

EPA = US Environmental Protection Agency
None = None

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: White Water Associates
Project/Site: KI Sawyer WWTP

Job ID: 410-43806-1

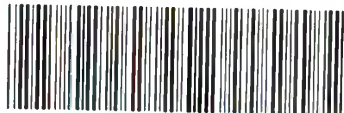
| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Asset ID |
|---------------|------------------|----------------|----------------|----------------|----------|
| 410-43806-1 | Well 5 | Drinking Water | 06/15/21 09:15 | 06/16/21 11:43 | |
| 410-43806-2 | TP 001 | Drinking Water | 06/15/21 09:20 | 06/16/21 11:43 | |
| 410-43806-3 | Field Blank | Drinking Water | 06/15/21 09:10 | 06/16/21 11:43 | |
| 410-43806-4 | Trip Blank | Drinking Water | 06/15/21 09:45 | 06/16/21 11:43 | |
| 410-43806-5 | Biosolids West | Solid | 06/15/21 09:40 | 06/16/21 11:43 | |

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410-43806 Chain of Custody

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Chain of Custody Record



**Environment Testing,
America**

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| 410-43806 Chain of Custody | | | | | | Sampler <i>Nicholas Hautamaki</i> | | Lab PM Zanar, Elizabeth M | | Carrier Tracking No(s) | | COC No. 410-26355-3761 1 | | | | | | | |
| Client Contact Bette Premo | | | | | | Phone <i>906-346-9403</i> | | E-Mail Elizabeth.Zanar@eurofinset.com | | State of Origin | | Page Page 1 of 1 | | | | | | | |
| Company White Water Associates | | | | | | PWSID | | Analysis Requested | | | | | | Job #: | | | | | |
| Address 429 River Lane PO BOX 27 | | | | | | Due Date Requested: | | <div style="display: flex; align-items: center;"><div style="writing-mode: vertical-rl; transform: rotate(180deg); font-size: small;">Old Filtered Sample (Yes or No)</div><div style="margin-left: 10px;"><div style="display: flex; flex-direction: column; align-items: center;"><div>PFC_IDA - MI List 28 PFAS</div><div>537.1</div><div>MI List 28 PFAS 537.1 Modified</div></div></div></div> | | | | | | Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify) Other: | | | | | |
| City: Amasa | | | | | | TAT Requested (days): | | | | | | | | | | | | | |
| State, Zip: MI, 49903 | | | | | | Compliance Project: Δ Yes Δ No | | | | | | | | | | | | | |
| Phone: 906-822-7889(Tel) 906-822-7977(Fax) | | | | | | PO # Purchase Order not required | | | | | | | | | | | | | |
| Email: bette.premo@white-water-associates.com | | | | | | WO # | | | | | | | | | | | | | |
| Project Name: KI Sawyer WWTP | | | | | | Project #: 41002275 | | | | | | | | | | | | | |
| Site | | | | | | SSOW# | | | | | | | | | | | | | |
| Sample Identification | | | | | | Sample Date | | Sample Time | | Sample Type (C=Comp, G=grab) | | Matrix (W=water, S=solid, D=dust/dirt, ST=tissue, A=air) | | Preservation Code: | | | | | |
| Well 5 | | | | | | 6/15/21 | | 9:15AM | | G | | Water | | N X | | | | | |
| PFAS Batch QC Wells | | | | | | 6/15/21 | | 9:15AM | | G | | Water | | N X | | | | | |
| TP 001 | | | | | | 6/15/21 | | 9:20AM | | G | | Water | | N X | | | | | |
| PFAS Batch QC TP001 | | | | | | 6/15/21 | | 9:20AM | | G | | Water | | N X | | | | | |
| Field Blank | | | | | | 6/15/21 | | 9:10AM | | G | | Water | | N X | | | | | |
| Trip Blank | | | | | | 6/15/21 | | 9:45AM | | G | | Water | | N X | | | | | |
| Binoculars West | | | | | | 6/15/21 | | 9:40AM | | G | | Soil | | N X | | | | | |
| Possible Hazard Identification | | | | | | Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) | | | | | | | | | | | | | |
| <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological | | | | | | <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months | | | | | | | | | | | | | |
| Deliverable Requested: I, II, III, IV, Other (specify) | | | | | | Special Instructions/QC Requirements: | | | | | | | | | | | | | |
| Empty Kit Relinquished by: | | | | | | Date: | | Time: | | Method of Shipment: | | | | | | | | | |
| Relinquished by: <i>Eduin Hernandez</i> | | | | | | Date/Time: <i>6/7/21 1450</i> | | Company: | | Received by: | | Date/Time: | | Company: | | | | | |
| Relinquished by: <i>Nicholas Hautamaki</i> | | | | | | Date/Time: <i>6/15/21 10:00AM</i> | | Company: | | Received by: <i>[Signature]</i> | | Date/Time: <i>6/16/21 1143</i> | | Company: <i>Env</i> | | | | | |
| Relinquished by: _____ | | | | | | Date/Time: _____ | | Company: | | Received by: _____ | | Date/Time: _____ | | Company: _____ | | | | | |
| Custody Seals Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | | | | | | Custody Seal No.: _____ | | | | | | Cooler Temperature(s) °C and Other Remarks: <i>D-4</i> | | | | | | | |

Login Sample Receipt Checklist

Client: White Water Associates

Job Number: 410-43806-1

Login Number: 43806

List Source: Eurofins Lancaster Laboratories Env, LLC

List Number: 1

Creator: Lugardo, Tamara

| Question | Answer | Comment |
|---|--------|---------|
| Radioactivity wasn't checked or is \leq background as measured by a survey meter. | N/A | |
| The cooler's custody seal is intact. | True | |
| 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 ($\leq 6^{\circ}\text{C}$, not frozen). | True | |
| Cooler Temperature is recorded. | True | |
| WV: Container Temperature is acceptable ($\leq 6^{\circ}\text{C}$, not frozen). | N/A | |
| WV: Container Temperature is recorded. | N/A | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| 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 | |
| There is sufficient vol. for all requested analyses. | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | N/A | |
| Is the Field Sampler's name present on COC? | True | |
| Sample Preservation Verified. | N/A | |
| Residual Chlorine Checked. | N/A | |
| Sample custody seals are intact. | True | |