

ANALYTICAL REPORT

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Laboratory Job ID: 410-24899-1
Client Project/Site: Newberry System
Sampling Event: Newberry System

For:
SUEZ Water Environmental Services Inc
6310 Allentown Blvd
Suite 104
Harrisburg, Pennsylvania 17112

Attn: Penny Bumbarger



Authorized for release by:
12/30/2020 12:37:16 AM

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



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
12/30/2020 12:37:16 AM



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Definitions/Glossary

Client: SUEZ Water Environmental Services Inc
Project/Site: Newberry System

Job ID: 410-24899-1

Qualifiers

LCMS

| Qualifier | Qualifier Description |
|-----------|--|
| 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 |
| 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: SUEZ Water Environmental Services Inc
Project/Site: Newberry System

Job ID: 410-24899-1

Job ID: 410-24899-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Narrative

Job Narrative
410-24899-1

Receipt

The samples were received on 12/23/2020 2:01 PM; the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.6°C

LCMS

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

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Detection Summary

Client: SUEZ Water Environmental Services Inc
Project/Site: Newberry System

Job ID: 410-24899-1

Client Sample ID: 7670061 001 Playground Well

Lab Sample ID: 410-24899-1

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------------------|--------|-----------|-----|------|------|---------|---|-----------------|-----------|
| Perfluorohexanoic acid | 14 | | 1.8 | 0.44 | ng/L | 1 | | EPA 537 Ver 1.1 | Total/NA |
| Perfluoroheptanoic acid | 1.8 | | 1.8 | 0.44 | ng/L | 1 | | EPA 537 Ver 1.1 | Total/NA |
| Perfluorooctanoic acid | 8.0 | | 1.8 | 0.44 | ng/L | 1 | | EPA 537 Ver 1.1 | Total/NA |
| Perfluorobutanesulfonic acid | 4.7 | | 1.8 | 0.44 | ng/L | 1 | | EPA 537 Ver 1.1 | Total/NA |
| Perfluorohexanesulfonic acid | 4.9 | | 1.8 | 0.44 | ng/L | 1 | | EPA 537 Ver 1.1 | Total/NA |
| Perfluorooctanesulfonic acid | 12 | | 1.8 | 0.44 | ng/L | 1 | | EPA 537 Ver 1.1 | Total/NA |

Client Sample ID: 7670061 001 Playground Well FB

Lab Sample ID: 410-24899-2

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: SUEZ Water Environmental Services Inc
Project/Site: Newberry System

Job ID: 410-24899-1

Client Sample ID: 7670061 001 Playground Well

Lab Sample ID: 410-24899-1

Date Collected: 12/22/20 10:15

Matrix: Drinking Water

Date Received: 12/23/20 14:01

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|------------------|------------------|---------------|------|------|---|-----------------|-----------------|----------------|
| Perfluorohexanoic acid | 14 | | 1.8 | 0.44 | ng/L | | 12/28/20 08:14 | 12/29/20 19:47 | 1 |
| Perfluoroheptanoic acid | 1.8 | | 1.8 | 0.44 | ng/L | | 12/28/20 08:14 | 12/29/20 19:47 | 1 |
| Perfluorooctanoic acid | 8.0 | | 1.8 | 0.44 | ng/L | | 12/28/20 08:14 | 12/29/20 19:47 | 1 |
| Perfluorononanoic acid | <1.8 | | 1.8 | 0.44 | ng/L | | 12/28/20 08:14 | 12/29/20 19:47 | 1 |
| Perfluorodecanoic acid | <1.8 | | 1.8 | 0.44 | ng/L | | 12/28/20 08:14 | 12/29/20 19:47 | 1 |
| Perfluorotridecanoic acid | <1.8 | | 1.8 | 0.44 | ng/L | | 12/28/20 08:14 | 12/29/20 19:47 | 1 |
| Perfluorotetradecanoic acid | <1.8 | | 1.8 | 0.44 | ng/L | | 12/28/20 08:14 | 12/29/20 19:47 | 1 |
| Perfluorobutanesulfonic acid | 4.7 | | 1.8 | 0.44 | ng/L | | 12/28/20 08:14 | 12/29/20 19:47 | 1 |
| Perfluorohexanesulfonic acid | 4.9 | | 1.8 | 0.44 | ng/L | | 12/28/20 08:14 | 12/29/20 19:47 | 1 |
| Perfluorooctanesulfonic acid | 12 | | 1.8 | 0.44 | ng/L | | 12/28/20 08:14 | 12/29/20 19:47 | 1 |
| NEtFOSAA | <1.8 | | 1.8 | 0.44 | ng/L | | 12/28/20 08:14 | 12/29/20 19:47 | 1 |
| NMeFOSAA | <1.8 | | 1.8 | 0.44 | ng/L | | 12/28/20 08:14 | 12/29/20 19:47 | 1 |
| Perfluoroundecanoic acid | <1.8 | | 1.8 | 0.44 | ng/L | | 12/28/20 08:14 | 12/29/20 19:47 | 1 |
| Perfluorododecanoic acid | <1.8 | | 1.8 | 0.44 | ng/L | | 12/28/20 08:14 | 12/29/20 19:47 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| d5-NEtFOSAA | 90 | | 70 - 130 | | | | 12/28/20 08:14 | 12/29/20 19:47 | 1 |
| 13C2 PFDA | 99 | | 70 - 130 | | | | 12/28/20 08:14 | 12/29/20 19:47 | 1 |
| 13C2 PFHxA | 98 | | 70 - 130 | | | | 12/28/20 08:14 | 12/29/20 19:47 | 1 |

Client Sample ID: 7670061 001 Playground Well FB

Lab Sample ID: 410-24899-2

Date Collected: 12/22/20 10:15

Matrix: Potable Water

Date Received: 12/23/20 14:01

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|------------------|------------------|---------------|------|------|---|-----------------|-----------------|----------------|
| Perfluorohexanoic acid | <1.8 | | 1.8 | 0.46 | ng/L | | 12/28/20 08:14 | 12/29/20 19:58 | 1 |
| Perfluoroheptanoic acid | <1.8 | | 1.8 | 0.46 | ng/L | | 12/28/20 08:14 | 12/29/20 19:58 | 1 |
| Perfluorooctanoic acid | <1.8 | | 1.8 | 0.46 | ng/L | | 12/28/20 08:14 | 12/29/20 19:58 | 1 |
| Perfluorononanoic acid | <1.8 | | 1.8 | 0.46 | ng/L | | 12/28/20 08:14 | 12/29/20 19:58 | 1 |
| Perfluorodecanoic acid | <1.8 | | 1.8 | 0.46 | ng/L | | 12/28/20 08:14 | 12/29/20 19:58 | 1 |
| Perfluorotridecanoic acid | <1.8 | | 1.8 | 0.46 | ng/L | | 12/28/20 08:14 | 12/29/20 19:58 | 1 |
| Perfluorotetradecanoic acid | <1.8 | | 1.8 | 0.46 | ng/L | | 12/28/20 08:14 | 12/29/20 19:58 | 1 |
| Perfluorobutanesulfonic acid | <1.8 | | 1.8 | 0.46 | ng/L | | 12/28/20 08:14 | 12/29/20 19:58 | 1 |
| Perfluorohexanesulfonic acid | <1.8 | | 1.8 | 0.46 | ng/L | | 12/28/20 08:14 | 12/29/20 19:58 | 1 |
| Perfluorooctanesulfonic acid | <1.8 | | 1.8 | 0.46 | ng/L | | 12/28/20 08:14 | 12/29/20 19:58 | 1 |
| NEtFOSAA | <1.8 | | 1.8 | 0.46 | ng/L | | 12/28/20 08:14 | 12/29/20 19:58 | 1 |
| NMeFOSAA | <1.8 | | 1.8 | 0.46 | ng/L | | 12/28/20 08:14 | 12/29/20 19:58 | 1 |
| Perfluoroundecanoic acid | <1.8 | | 1.8 | 0.46 | ng/L | | 12/28/20 08:14 | 12/29/20 19:58 | 1 |
| Perfluorododecanoic acid | <1.8 | | 1.8 | 0.46 | ng/L | | 12/28/20 08:14 | 12/29/20 19:58 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| d5-NEtFOSAA | 111 | | 70 - 130 | | | | 12/28/20 08:14 | 12/29/20 19:58 | 1 |
| 13C2 PFDA | 116 | | 70 - 130 | | | | 12/28/20 08:14 | 12/29/20 19:58 | 1 |
| 13C2 PFHxA | 105 | | 70 - 130 | | | | 12/28/20 08:14 | 12/29/20 19:58 | 1 |

Surrogate Summary

Client: SUEZ Water Environmental Services Inc
 Project/Site: Newberry System

Job ID: 410-24899-1

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Matrix: Drinking Water

Prep Type: Total/NA

| Lab Sample ID | Client Sample ID | Percent Surrogate Recovery (Acceptance Limits) | | |
|--------------------|-----------------------------|--|------------------|-------------------|
| | | d5NEFOS (70-130) | PFDA (70-130) | PFHxA (70-130) |
| 410-24899-1 | 7670061 001 Playground Well | 90 | 99 | 98 |
| LCS 410-80116/2-A | Lab Control Sample | 92 | 98 | 90 |
| LCS 410-80116/3-A | Lab Control Sample Dup | 87 | 95 | 89 |
| LLCS 410-80116/4-A | Lab Control Sample | 92 | 107 | 98 |
| MB 410-80116/1-A | Method Blank | 99 | 106 | 98 |

Surrogate Legend

d5NEFOS = d5-NEtFOSAA
 PFDA = 13C2 PFDA
 PFHxA = 13C2 PFHxA

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Matrix: Potable Water

Prep Type: Total/NA

| Lab Sample ID | Client Sample ID | Percent Surrogate Recovery (Acceptance Limits) | | |
|---------------|--------------------------------|--|------------------|-------------------|
| | | d5NEFOS (70-130) | PFDA (70-130) | PFHxA (70-130) |
| 410-24899-2 | 7670061 001 Playground Well FB | 111 | 116 | 105 |

Surrogate Legend

d5NEFOS = d5-NEtFOSAA
 PFDA = 13C2 PFDA
 PFHxA = 13C2 PFHxA

QC Sample Results

Client: SUEZ Water Environmental Services Inc
Project/Site: Newberry System

Job ID: 410-24899-1

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Lab Sample ID: MB 410-80116/1-A

Matrix: Drinking Water

Analysis Batch: 80466

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 80116

| Analyte | MB | MB | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|-----|------|------|---|----------------|----------------|---------|
| | Result | Qualifier | | | | | | | |
| Perfluorohexanoic acid | <2.0 | | 2.0 | 0.50 | ng/L | | 12/28/20 08:14 | 12/29/20 19:01 | 1 |
| Perfluoroheptanoic acid | <2.0 | | 2.0 | 0.50 | ng/L | | 12/28/20 08:14 | 12/29/20 19:01 | 1 |
| Perfluorooctanoic acid | <2.0 | | 2.0 | 0.50 | ng/L | | 12/28/20 08:14 | 12/29/20 19:01 | 1 |
| Perfluorononanoic acid | <2.0 | | 2.0 | 0.50 | ng/L | | 12/28/20 08:14 | 12/29/20 19:01 | 1 |
| Perfluorodecanoic acid | <2.0 | | 2.0 | 0.50 | ng/L | | 12/28/20 08:14 | 12/29/20 19:01 | 1 |
| Perfluorotridecanoic acid | <2.0 | | 2.0 | 0.50 | ng/L | | 12/28/20 08:14 | 12/29/20 19:01 | 1 |
| Perfluorotetradecanoic acid | <2.0 | | 2.0 | 0.50 | ng/L | | 12/28/20 08:14 | 12/29/20 19:01 | 1 |
| Perfluorobutanesulfonic acid | <2.0 | | 2.0 | 0.50 | ng/L | | 12/28/20 08:14 | 12/29/20 19:01 | 1 |
| Perfluorohexanesulfonic acid | <2.0 | | 2.0 | 0.50 | ng/L | | 12/28/20 08:14 | 12/29/20 19:01 | 1 |
| Perfluorooctanesulfonic acid | <2.0 | | 2.0 | 0.50 | ng/L | | 12/28/20 08:14 | 12/29/20 19:01 | 1 |
| NEtFOSAA | <2.0 | | 2.0 | 0.50 | ng/L | | 12/28/20 08:14 | 12/29/20 19:01 | 1 |
| NMeFOSAA | <2.0 | | 2.0 | 0.50 | ng/L | | 12/28/20 08:14 | 12/29/20 19:01 | 1 |
| Perfluoroundecanoic acid | <2.0 | | 2.0 | 0.50 | ng/L | | 12/28/20 08:14 | 12/29/20 19:01 | 1 |
| Perfluorododecanoic acid | <2.0 | | 2.0 | 0.50 | ng/L | | 12/28/20 08:14 | 12/29/20 19:01 | 1 |

| Surrogate | MB | MB | Limits | Prepared | Analyzed | Dil Fac |
|-------------|-----------|-----------|----------|----------------|----------------|---------|
| | %Recovery | Qualifier | | | | |
| d5-NEtFOSAA | 99 | | 70 - 130 | 12/28/20 08:14 | 12/29/20 19:01 | 1 |
| 13C2 PFDA | 106 | | 70 - 130 | 12/28/20 08:14 | 12/29/20 19:01 | 1 |
| 13C2 PFHxA | 98 | | 70 - 130 | 12/28/20 08:14 | 12/29/20 19:01 | 1 |

Lab Sample ID: LCS 410-80116/2-A

Matrix: Drinking Water

Analysis Batch: 80466

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 80116

| Analyte | Spike Added | LCS | LCS | Unit | D | %Rec | %Rec. Limits |
|------------------------------|-------------|--------|-----------|------|---|------|--------------|
| | | Result | Qualifier | | | | |
| Perfluorohexanoic acid | 20.5 | 17.3 | | ng/L | | 85 | 70 - 130 |
| Perfluoroheptanoic acid | 20.5 | 17.6 | | ng/L | | 86 | 70 - 130 |
| Perfluorooctanoic acid | 20.5 | 18.0 | | ng/L | | 88 | 70 - 130 |
| Perfluorononanoic acid | 20.5 | 19.3 | | ng/L | | 94 | 70 - 130 |
| Perfluorodecanoic acid | 20.5 | 18.1 | | ng/L | | 89 | 70 - 130 |
| Perfluorotridecanoic acid | 20.5 | 19.2 | | ng/L | | 94 | 70 - 130 |
| Perfluorotetradecanoic acid | 20.5 | 19.3 | | ng/L | | 94 | 70 - 130 |
| Perfluorobutanesulfonic acid | 18.1 | 15.1 | | ng/L | | 83 | 70 - 130 |
| Perfluorohexanesulfonic acid | 18.7 | 15.5 | | ng/L | | 83 | 70 - 130 |
| Perfluorooctanesulfonic acid | 19.0 | 15.9 | | ng/L | | 84 | 70 - 130 |
| NEtFOSAA | 20.5 | 17.3 | | ng/L | | 85 | 70 - 130 |
| NMeFOSAA | 20.5 | 17.0 | | ng/L | | 83 | 70 - 130 |
| Perfluoroundecanoic acid | 20.5 | 18.3 | | ng/L | | 90 | 70 - 130 |
| Perfluorododecanoic acid | 20.5 | 19.4 | | ng/L | | 95 | 70 - 130 |

| Surrogate | LCS | LCS | Limits |
|-------------|-----------|-----------|----------|
| | %Recovery | Qualifier | |
| d5-NEtFOSAA | 92 | | 70 - 130 |
| 13C2 PFDA | 98 | | 70 - 130 |
| 13C2 PFHxA | 90 | | 70 - 130 |

QC Sample Results

Client: SUEZ Water Environmental Services Inc
Project/Site: Newberry System

Job ID: 410-24899-1

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1 (Continued)

Lab Sample ID: LCSD 410-80116/3-A

Matrix: Drinking Water

Analysis Batch: 80466

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 80116

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|------------------------------|-------------|-------------|----------------|------|---|------|--------------|-----|-----------|
| | | | | | | | | | |
| Perfluorohexanoic acid | 20.5 | 17.8 | | ng/L | | 87 | 70 - 130 | 3 | 30 |
| Perfluoroheptanoic acid | 20.5 | 18.1 | | ng/L | | 89 | 70 - 130 | 3 | 30 |
| Perfluorooctanoic acid | 20.5 | 18.3 | | ng/L | | 89 | 70 - 130 | 1 | 30 |
| Perfluorononanoic acid | 20.5 | 19.6 | | ng/L | | 96 | 70 - 130 | 1 | 30 |
| Perfluorodecanoic acid | 20.5 | 18.1 | | ng/L | | 88 | 70 - 130 | 0 | 30 |
| Perfluorotridecanoic acid | 20.5 | 19.6 | | ng/L | | 96 | 70 - 130 | 2 | 30 |
| Perfluorotetradecanoic acid | 20.5 | 19.5 | | ng/L | | 95 | 70 - 130 | 1 | 30 |
| Perfluorobutanesulfonic acid | 18.1 | 15.1 | | ng/L | | 83 | 70 - 130 | 0 | 30 |
| Perfluorohexanesulfonic acid | 18.7 | 15.9 | | ng/L | | 85 | 70 - 130 | 2 | 30 |
| Perfluorooctanesulfonic acid | 19.0 | 15.6 | | ng/L | | 83 | 70 - 130 | 1 | 30 |
| NEtFOSAA | 20.5 | 17.4 | | ng/L | | 85 | 70 - 130 | 0 | 30 |
| NMeFOSAA | 20.5 | 16.9 | | ng/L | | 83 | 70 - 130 | 1 | 30 |
| Perfluoroundecanoic acid | 20.5 | 18.7 | | ng/L | | 91 | 70 - 130 | 2 | 30 |
| Perfluorododecanoic acid | 20.5 | 19.5 | | ng/L | | 95 | 70 - 130 | 1 | 30 |

| Surrogate | LCSD LCSD | | Limits |
|-------------|-----------|-----------|----------|
| | %Recovery | Qualifier | |
| d5-NEtFOSAA | 87 | | 70 - 130 |
| 13C2 PFDA | 95 | | 70 - 130 |
| 13C2 PFHxA | 89 | | 70 - 130 |

Lab Sample ID: LLCS 410-80116/4-A

Matrix: Drinking Water

Analysis Batch: 80466

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 80116

| Analyte | Spike Added | LLCS Result | LLCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|------------------------------|-------------|-------------|----------------|------|---|------|--------------|
| | | | | | | | |
| Perfluorohexanoic acid | 1.92 | 2.10 | | ng/L | | 110 | 50 - 150 |
| Perfluoroheptanoic acid | 1.92 | 2.05 | | ng/L | | 107 | 50 - 150 |
| Perfluorooctanoic acid | 1.92 | 2.06 | | ng/L | | 107 | 50 - 150 |
| Perfluorononanoic acid | 1.92 | 2.19 | | ng/L | | 114 | 50 - 150 |
| Perfluorodecanoic acid | 1.92 | 2.03 | | ng/L | | 106 | 50 - 150 |
| Perfluorotridecanoic acid | 1.92 | 2.29 | | ng/L | | 119 | 50 - 150 |
| Perfluorotetradecanoic acid | 1.92 | 2.27 | | ng/L | | 118 | 50 - 150 |
| Perfluorobutanesulfonic acid | 1.70 | 1.77 | J | ng/L | | 104 | 50 - 150 |
| Perfluorohexanesulfonic acid | 1.75 | 1.74 | J | ng/L | | 99 | 50 - 150 |
| Perfluorooctanesulfonic acid | 1.78 | 1.98 | J | ng/L | | 111 | 50 - 150 |
| NEtFOSAA | 1.92 | 1.96 | J | ng/L | | 102 | 50 - 150 |
| NMeFOSAA | 1.92 | 1.90 | J | ng/L | | 99 | 50 - 150 |
| Perfluoroundecanoic acid | 1.92 | 2.22 | | ng/L | | 115 | 50 - 150 |
| Perfluorododecanoic acid | 1.92 | 2.39 | | ng/L | | 124 | 50 - 150 |

| Surrogate | LLCS LLCS | | Limits |
|-------------|-----------|-----------|----------|
| | %Recovery | Qualifier | |
| d5-NEtFOSAA | 92 | | 70 - 130 |
| 13C2 PFDA | 107 | | 70 - 130 |
| 13C2 PFHxA | 98 | | 70 - 130 |

QC Association Summary

Client: SUEZ Water Environmental Services Inc
 Project/Site: Newberry System

Job ID: 410-24899-1

LCMS

Prep Batch: 80116

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------------------|-----------|----------------|-----------------|------------|
| 410-24899-1 | 7670061 001 Playground Well | Total/NA | Drinking Water | EPA 537 Ver 1.1 | |
| 410-24899-2 | 7670061 001 Playground Well FB | Total/NA | Potable Water | EPA 537 Ver 1.1 | |
| MB 410-80116/1-A | Method Blank | Total/NA | Drinking Water | EPA 537 Ver 1.1 | |
| LCS 410-80116/2-A | Lab Control Sample | Total/NA | Drinking Water | EPA 537 Ver 1.1 | |
| LCSD 410-80116/3-A | Lab Control Sample Dup | Total/NA | Drinking Water | EPA 537 Ver 1.1 | |
| LLCS 410-80116/4-A | Lab Control Sample | Total/NA | Drinking Water | EPA 537 Ver 1.1 | |

Analysis Batch: 80466

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------------------|-----------|----------------|-----------------|------------|
| 410-24899-1 | 7670061 001 Playground Well | Total/NA | Drinking Water | EPA 537 Ver 1.1 | 80116 |
| 410-24899-2 | 7670061 001 Playground Well FB | Total/NA | Potable Water | EPA 537 Ver 1.1 | 80116 |
| MB 410-80116/1-A | Method Blank | Total/NA | Drinking Water | EPA 537 Ver 1.1 | 80116 |
| LCS 410-80116/2-A | Lab Control Sample | Total/NA | Drinking Water | EPA 537 Ver 1.1 | 80116 |
| LCSD 410-80116/3-A | Lab Control Sample Dup | Total/NA | Drinking Water | EPA 537 Ver 1.1 | 80116 |
| LLCS 410-80116/4-A | Lab Control Sample | Total/NA | Drinking Water | EPA 537 Ver 1.1 | 80116 |



Lab Chronicle

Client: SUEZ Water Environmental Services Inc
 Project/Site: Newberry System

Job ID: 410-24899-1

Client Sample ID: 7670061 001 Playground Well

Lab Sample ID: 410-24899-1

Date Collected: 12/22/20 10:15

Matrix: Drinking Water

Date Received: 12/23/20 14:01

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|-----------------|-----|-----------------|--------------|----------------------|---------|------|
| Total/NA | Prep | EPA 537 Ver 1.1 | | | 80116 | 12/28/20 08:14 | CL | ELLE |
| Total/NA | Analysis | EPA 537 Ver 1.1 | | 1 | 80466 | 12/29/20 19:47 | VK3G | ELLE |

Client Sample ID: 7670061 001 Playground Well FB

Lab Sample ID: 410-24899-2

Date Collected: 12/22/20 10:15

Matrix: Potable Water

Date Received: 12/23/20 14:01

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|-----------------|-----|-----------------|--------------|----------------------|---------|------|
| Total/NA | Prep | EPA 537 Ver 1.1 | | | 80116 | 12/28/20 08:14 | CL | ELLE |
| Total/NA | Analysis | EPA 537 Ver 1.1 | | 1 | 80466 | 12/29/20 19:58 | VK3G | ELLE |

Laboratory References:

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



Accreditation/Certification Summary

Client: SUEZ Water Environmental Services Inc
Project/Site: Newberry System

Job ID: 410-24899-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

The accreditations/certifications listed below are applicable to this report.

| Authority | Program | Identification Number | Expiration Date |
|--------------|---------|-----------------------|-----------------|
| Pennsylvania | NELAP | 36-00037 | 01-31-22 |

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- 5
- 6
- 7
- 8
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- 10
- 11
- 12
- 13
- 14
- 15

Method Summary

Client: SUEZ Water Environmental Services Inc
Project/Site: Newberry System

Job ID: 410-24899-1

| Method | Method Description | Protocol | Laboratory |
|-----------------|---------------------|----------|------------|
| EPA 537 Ver 1.1 | EPA 537 Version 1.1 | EPA | ELLE |
| EPA 537 Ver 1.1 | EPA 537 Version 1.1 | EPA | ELLE |

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

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



Sample Summary

Client: SUEZ Water Environmental Services Inc
Project/Site: Newberry System

Job ID: 410-24899-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Asset ID |
|---------------|--------------------------------|----------------|----------------|----------------|----------|
| 410-24899-1 | 7670061 001 Playground Well | Drinking Water | 12/22/20 10:15 | 12/23/20 14:01 | |
| 410-24899-2 | 7670061 001 Playground Well FB | Potable Water | 12/22/20 10:15 | 12/23/20 14:01 | |

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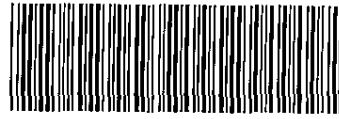
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Lancaster Laboratories Environmental

Environme



410-24899 Chain of Custody

Test/Chain of Custody

Acct. # 44297 Grou

| | | | | | | | | | | | | | | | |
|---|--|---|--|------------------------------------|--|----------------------------------|-----------------------------------|------------|--|----------------------------|--|---|--------------|------------|--|
| Client: SUEZ WATER PA | | Site ID #: | | Matrix | | Analyses Requested | | | | | | For Lab Use Only | | | |
| Project Name: Newberry System | | P O #: | | <input type="checkbox"/> Tissue | <input checked="" type="checkbox"/> Ground | <input type="checkbox"/> Surface | Preservation and Filtration Codes | | | | | | SF #: _____ | | |
| Project Manager: Elizabeth Zonar | | PWSID #: 7670061 | | <input type="checkbox"/> Sediment | <input type="checkbox"/> Potable | <input type="checkbox"/> NPDES | PFAS (14) 537 v 1.1 | | | | | | SCR #: _____ | | |
| Sampler: Penny Bumbarger | | Quote #: 219948A | | <input type="checkbox"/> Water | <input type="checkbox"/> Other: GAC Filtered Water | Total # of Containers | | | | | | | Remarks | | |
| Phone #: 717-773-0185 | | For Compliance: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | | Collection | | Grab | | Composite | | Preservation Codes | | H HCl T Thiosulfate | | | |
| State where samples were collected PA | | Date | | Time | | Grab | | Composite | | N HNO ₃ B NaOH | | S H ₂ SO ₄ P H ₃ PO ₄ | | | |
| Sample Identification | | 001 Playground Well | | 12/22/20 | | 1015 | | X | | F = Field Filtered O Other | | Monthly Compliance | | | |
| FB - Playground Well | | 12/22/20 | | 1015 | | | | 2 | | X | | | | | |
| Turnaround Time Requested (TAT) (please check) | | Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/> | | Relinquished by: Penny Bumbarger | | Date: 12/23/2020 | | Time: 1120 | | Received by: [Signature] | | Date: 12/23/20 | | Time: 1120 | |
| (Rush TAT is subject to laboratory approval and surcharges.) | | Date results are needed: | | Relinquished by: [Signature] | | Date: 12/23/20 | | Time: 1356 | | Received by: | | Date: | | Time: | |
| Rush results requested by (please check): E-Mail <input checked="" type="checkbox"/> Phone <input type="checkbox"/> | | E-mail Address: penny.bumbarger@suez.com | | Relinquished by: | | Date: | | Time: | | Received by: | | Date: | | Time: | |
| Phone: 717-773-0185 | | Data Package Options (please check if required) | | Relinquished by: | | Date: | | Time: | | Received by: | | Date: | | Time: | |
| Type I (Validation/non-CLP) <input type="checkbox"/> MA MCP <input type="checkbox"/> | | Type III (Reduced non-CLP) <input type="checkbox"/> CT RCP <input type="checkbox"/> | | Relinquished by: | | Date: | | Time: | | Received by: | | Date: 12/23/20 | | Time: 1401 | |
| Type VI (Raw Data Only) <input type="checkbox"/> TX TRRP-13 <input type="checkbox"/> | | NJ DKQP <input type="checkbox"/> NYSDEC Category <input type="checkbox"/> A or <input type="checkbox"/> B | | Relinquished by Commercial Carrier | | Date: | | Time: | | Received by: | | Date: | | Time: | |
| EDD Required? Yes <input type="checkbox"/> No <input type="checkbox"/> If yes, format: _____ | | UPS _____ FedEx _____ Other _____ | | Temperature upon receipt: 0.6 °C | | | | | | | | | | | |



Login Sample Receipt Checklist

Client: SUEZ Water Environmental Services Inc

Job Number: 410-24899-1

Login Number: 24899

List Source: Eurofins Lancaster Laboratories Env

List Number: 1

Creator: Cyms, Carolyn M

| 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. | N/A | |

