



ANALYTICAL REPORT

| | |
|-----------------|---|
| Lab Number: | L2428628 |
| Client: | Merrimack Village District 2 Greens Pond Road Merrimack, NH 03054 |
| ATTN: | Jill Lavoie |
| Phone: | (603) 424-9241 |
| Project Name: | RAW AND TREATED WELL WATER |
| Project Number: | 1531010 |
| Report Date: | 06/06/24 |

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Certifications & Approvals: MA (M-MA030), NH NELAP (2062), CT (PH-0825), DoD (L2474), FL (E87814), IL (200081), IN (C-MA-04), KY (KY98046), LA (85084), ME (MA00030), MD (350), MI (9110), MN (025-999-495), NJ (MA015), NY (11627), NC (685), OR (MA-0262), PA (68-02089), RI (LAO00299), TX (T104704419), VT (VT-0015), VA (460194), WA (C954), US Army Corps of Engineers, USDA (Permit #525-23-107-88708A1), USFWS (Permit #A24920).

320 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com



Project Name: RAW AND TREATED WELL WATER
Project Number: 1531010

Lab Number: L2428628
Report Date: 06/06/24

| Alpha Sample ID | Client ID | Matrix | Sample Location | Collection Date/Time | Receive Date |
|----------------------------|----------------------|---------------|----------------------------|---------------------------------|---------------------|
| L2428628-01 | 1531010-008 (MVD-2) | DW | WELLS AND TREATMENT PLANTS | 05/22/24 11:20 | 05/23/24 |
| L2428628-02 | 1531010_012 (MVD 9) | DW | WELLS AND TREATMENT PLANTS | 05/22/24 11:21 | 05/23/24 |
| L2428628-03 | 1531010-512 (TP-2/9) | DW | WELLS AND TREATMENT PLANTS | 05/22/24 11:25 | 05/23/24 |
| L2428628-04 | 1531010-011 (MVD-4R) | DW | WELLS AND TREATMENT PLANTS | 05/22/24 10:55 | 05/23/24 |
| L2428628-05 | 1531010_005 (MVD-5) | DW | WELLS AND TREATMENT PLANTS | 05/22/24 10:57 | 05/23/24 |
| L2428628-06 | 1531010_509 (TP-4/5) | DW | WELLS AND TREATMENT PLANTS | 05/22/24 10:50 | 05/23/24 |
| L2428628-07 | 1531010_007 (MVD-7) | DW | WELLS AND TREATMENT PLANTS | 05/22/24 10:15 | 05/23/24 |
| L2428628-08 | 1531010_009 (MVD-8) | DW | WELLS AND TREATMENT PLANTS | 05/22/24 10:20 | 05/23/24 |
| L2428628-09 | 1531010_510 (TP-7/8) | DW | WELLS AND TREATMENT PLANTS | 05/22/24 10:25 | 05/23/24 |

Project Name: RAW AND TREATED WELL WATER
Project Number: 1531010

Lab Number: L2428628
Report Date: 06/06/24

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: RAW AND TREATED WELL WATER
Project Number: 1531010

Lab Number: L2428628
Report Date: 06/06/24

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:



Alycia Mogayzel

Title: Technical Director/Representative

Date: 06/06/24

ORGANICS

SEMIVOLATILES

Project Name: RAW AND TREATED WELL WATER
Project Number: 1531010

Lab Number: L2428628
Report Date: 06/06/24

SAMPLE RESULTS

Lab ID: L2428628-01
 Client ID: 1531010-008 (MVD-2)
 Sample Location: WELLS AND TREATMENT PLANTS

Date Collected: 05/22/24 11:20
 Date Received: 05/23/24
 Field Prep: Not Specified

Sample Depth:

Matrix: Dw
 Analytical Method: 136,533
 Analytical Date: 06/06/24 08:54
 Analyst: CAP

Extraction Method: EPA 533
 Extraction Date: 06/04/24 19:30

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|------|-------|-----------------|
| Perfluorinated Alkyl Acids by EPA 533 - Mansfield Lab | | | | | | |
| Perfluorobutanoic Acid (PFBA) | 2.14 | | ng/l | 2.00 | 0.616 | 1 |
| Perfluoro-3-Methoxypropanoic Acid (PFMPA) | ND | | ng/l | 2.00 | 0.616 | 1 |
| Perfluoropentanoic Acid (PFPeA) | 2.40 | | ng/l | 2.00 | 0.616 | 1 |
| Perfluorobutanesulfonic Acid (PFBS) | 1.88 | J | ng/l | 2.00 | 0.616 | 1 |
| Perfluoro-4-Methoxybutanoic Acid (PFMBA) | ND | | ng/l | 2.00 | 0.616 | 1 |
| Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA) | ND | | ng/l | 2.00 | 0.616 | 1 |
| Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA) | ND | | ng/l | 2.00 | 0.616 | 1 |
| 1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS) | ND | | ng/l | 2.00 | 0.616 | 1 |
| Perfluorohexanoic Acid (PFHxA) | 2.99 | | ng/l | 2.00 | 0.616 | 1 |
| Perfluoropentanesulfonic Acid (PFPeS) | ND | | ng/l | 2.00 | 0.616 | 1 |
| 2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid (HFPO-DA) | ND | | ng/l | 2.00 | 0.616 | 1 |
| Perfluoroheptanoic Acid (PFHpA) | 2.62 | | ng/l | 2.00 | 0.616 | 1 |
| Perfluorohexanesulfonic Acid (PFHxS) | 0.701 | J | ng/l | 2.00 | 0.616 | 1 |
| 4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA) | ND | | ng/l | 2.00 | 0.616 | 1 |
| 1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS) | ND | | ng/l | 2.00 | 0.616 | 1 |
| Perfluorooctanoic Acid (PFOA) | 15.7 | | ng/l | 2.00 | 0.616 | 1 |
| Perfluoroheptanesulfonic Acid (PFHpS) | ND | | ng/l | 2.00 | 0.616 | 1 |
| Perfluorononanoic Acid (PFNA) | ND | | ng/l | 2.00 | 0.616 | 1 |
| Perfluorooctanesulfonic Acid (PFOS) | 1.66 | J | ng/l | 2.00 | 0.616 | 1 |
| 9-Chlorohexadecafluoro-3-Oxanonone-1-Sulfonic Acid (9Cl-PF3ONS) | ND | | ng/l | 2.00 | 0.616 | 1 |
| 1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS) | ND | | ng/l | 2.00 | 0.616 | 1 |
| Perfluorodecanoic Acid (PFDA) | ND | | ng/l | 2.00 | 0.616 | 1 |
| Perfluoroundecanoic Acid (PFUnA) | ND | | ng/l | 2.00 | 0.616 | 1 |
| 11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS) | ND | | ng/l | 2.00 | 0.616 | 1 |
| Perfluorododecanoic Acid (PFDoA) | ND | | ng/l | 2.00 | 0.616 | 1 |

Project Name: RAW AND TREATED WELL WATER
Project Number: 1531010

Lab Number: L2428628
Report Date: 06/06/24

SAMPLE RESULTS

Lab ID: L2428628-01
 Client ID: 1531010-008 (MVD-2)
 Sample Location: WELLS AND TREATMENT PLANTS

Date Collected: 05/22/24 11:20
 Date Received: 05/23/24
 Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|----|-----|-----------------|
| Perfluorinated Alkyl Acids by EPA 533 - Mansfield Lab | | | | | | |

| Surrogate (Extracted Internal Standard) | % Recovery | Qualifier | Acceptance Criteria |
|--|------------|-----------|---------------------|
| Perfluoro[13C4]Butanoic Acid (MPFBA) | 113 | | 50-200 |
| Perfluoro[13C5]Pentanoic Acid (M5PFPEA) | 125 | | 50-200 |
| Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS) | 99 | | 50-200 |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS) | 113 | | 50-200 |
| Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA) | 106 | | 50-200 |
| Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA) | 97 | | 50-200 |
| Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS) | 104 | | 50-200 |
| Perfluoro[13C8]Octanoic Acid (M8PFOA) | 91 | | 50-200 |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS) | 96 | | 50-200 |
| Perfluoro[13C9]Nonanoic Acid (M9PFNA) | 92 | | 50-200 |
| Perfluoro[13C8]Octanesulfonic Acid (M8PFOS) | 109 | | 50-200 |
| Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA) | 89 | | 50-200 |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS) | 95 | | 50-200 |
| Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA) | 105 | | 50-200 |
| Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA) | 116 | | 50-200 |
| 2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-13C3-Propanoic Acid (M3HFPO-DA) | 103 | | 50-200 |

Project Name: RAW AND TREATED WELL WATER
Project Number: 1531010

Lab Number: L2428628
Report Date: 06/06/24

SAMPLE RESULTS

Lab ID: L2428628-02
Client ID: 1531010_012 (MVD 9)
Sample Location: WELLS AND TREATMENT PLANTS

Date Collected: 05/22/24 11:21
Date Received: 05/23/24
Field Prep: Not Specified

Sample Depth:

Matrix: Dw
Analytical Method: 136,533
Analytical Date: 06/06/24 09:11
Analyst: CAP

Extraction Method: EPA 533
Extraction Date: 06/04/24 19:30

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|------|-------|-----------------|
| Perfluorinated Alkyl Acids by EPA 533 - Mansfield Lab | | | | | | |
| Perfluorobutanoic Acid (PFBA) | ND | | ng/l | 2.00 | 0.604 | 1 |
| Perfluoro-3-Methoxypropanoic Acid (PFMPA) | ND | | ng/l | 2.00 | 0.604 | 1 |
| Perfluoropentanoic Acid (PFPeA) | ND | | ng/l | 2.00 | 0.604 | 1 |
| Perfluorobutanesulfonic Acid (PFBS) | ND | | ng/l | 2.00 | 0.604 | 1 |
| Perfluoro-4-Methoxybutanoic Acid (PFMBA) | ND | | ng/l | 2.00 | 0.604 | 1 |
| Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA) | ND | | ng/l | 2.00 | 0.604 | 1 |
| Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA) | ND | | ng/l | 2.00 | 0.604 | 1 |
| 1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS) | ND | | ng/l | 2.00 | 0.604 | 1 |
| Perfluorohexanoic Acid (PFHxA) | ND | | ng/l | 2.00 | 0.604 | 1 |
| Perfluoropentanesulfonic Acid (PFPeS) | ND | | ng/l | 2.00 | 0.604 | 1 |
| 2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid (HFPO-DA) | ND | | ng/l | 2.00 | 0.604 | 1 |
| Perfluoroheptanoic Acid (PFHpA) | ND | | ng/l | 2.00 | 0.604 | 1 |
| Perfluorohexanesulfonic Acid (PFHxS) | ND | | ng/l | 2.00 | 0.604 | 1 |
| 4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA) | ND | | ng/l | 2.00 | 0.604 | 1 |
| 1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS) | ND | | ng/l | 2.00 | 0.604 | 1 |
| Perfluorooctanoic Acid (PFOA) | 1.08 | J | ng/l | 2.00 | 0.604 | 1 |
| Perfluoroheptanesulfonic Acid (PFHpS) | ND | | ng/l | 2.00 | 0.604 | 1 |
| Perfluorononanoic Acid (PFNA) | ND | | ng/l | 2.00 | 0.604 | 1 |
| Perfluorooctanesulfonic Acid (PFOS) | 0.941 | J | ng/l | 2.00 | 0.604 | 1 |
| 9-Chlorohexadecafluoro-3-Oxanonone-1-Sulfonic Acid (9Cl-PF3ONS) | ND | | ng/l | 2.00 | 0.604 | 1 |
| 1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS) | ND | | ng/l | 2.00 | 0.604 | 1 |
| Perfluorodecanoic Acid (PFDA) | ND | | ng/l | 2.00 | 0.604 | 1 |
| Perfluoroundecanoic Acid (PFUnA) | ND | | ng/l | 2.00 | 0.604 | 1 |
| 11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS) | ND | | ng/l | 2.00 | 0.604 | 1 |
| Perfluorododecanoic Acid (PFDoA) | ND | | ng/l | 2.00 | 0.604 | 1 |

Project Name: RAW AND TREATED WELL WATER
Project Number: 1531010

Lab Number: L2428628
Report Date: 06/06/24

SAMPLE RESULTS

Lab ID: L2428628-02
 Client ID: 1531010_012 (MVD 9)
 Sample Location: WELLS AND TREATMENT PLANTS

Date Collected: 05/22/24 11:21
 Date Received: 05/23/24
 Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|----|-----|-----------------|
| Perfluorinated Alkyl Acids by EPA 533 - Mansfield Lab | | | | | | |

| Surrogate (Extracted Internal Standard) | % Recovery | Qualifier | Acceptance Criteria |
|--|------------|-----------|---------------------|
| Perfluoro[13C4]Butanoic Acid (MPFBA) | 112 | | 50-200 |
| Perfluoro[13C5]Pentanoic Acid (M5PFPEA) | 118 | | 50-200 |
| Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS) | 97 | | 50-200 |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS) | 126 | | 50-200 |
| Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA) | 114 | | 50-200 |
| Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA) | 106 | | 50-200 |
| Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS) | 101 | | 50-200 |
| Perfluoro[13C8]Octanoic Acid (M8PFOA) | 105 | | 50-200 |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS) | 103 | | 50-200 |
| Perfluoro[13C9]Nonanoic Acid (M9PFNA) | 114 | | 50-200 |
| Perfluoro[13C8]Octanesulfonic Acid (M8PFOS) | 112 | | 50-200 |
| Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA) | 112 | | 50-200 |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS) | 97 | | 50-200 |
| Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA) | 127 | | 50-200 |
| Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA) | 133 | | 50-200 |
| 2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-13C3-Propanoic Acid (M3HFPO-DA) | 109 | | 50-200 |

Project Name: RAW AND TREATED WELL WATER
Project Number: 1531010

Lab Number: L2428628
Report Date: 06/06/24

SAMPLE RESULTS

Lab ID: L2428628-03
Client ID: 1531010-512 (TP-2/9)
Sample Location: WELLS AND TREATMENT PLANTS

Date Collected: 05/22/24 11:25
Date Received: 05/23/24
Field Prep: Not Specified

Sample Depth:

Matrix: Dw
Analytical Method: 136,533
Analytical Date: 06/06/24 09:28
Analyst: CAP

Extraction Method: EPA 533
Extraction Date: 06/04/24 19:30

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|------|-------|-----------------|
| Perfluorinated Alkyl Acids by EPA 533 - Mansfield Lab | | | | | | |
| Perfluorobutanoic Acid (PFBA) | ND | | ng/l | 2.00 | 0.595 | 1 |
| Perfluoro-3-Methoxypropanoic Acid (PFMPA) | ND | | ng/l | 2.00 | 0.595 | 1 |
| Perfluoropentanoic Acid (PFPeA) | ND | | ng/l | 2.00 | 0.595 | 1 |
| Perfluorobutanesulfonic Acid (PFBS) | ND | | ng/l | 2.00 | 0.595 | 1 |
| Perfluoro-4-Methoxybutanoic Acid (PFMBA) | ND | | ng/l | 2.00 | 0.595 | 1 |
| Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA) | ND | | ng/l | 2.00 | 0.595 | 1 |
| Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA) | ND | | ng/l | 2.00 | 0.595 | 1 |
| 1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS) | ND | | ng/l | 2.00 | 0.595 | 1 |
| Perfluorohexanoic Acid (PFHxA) | ND | | ng/l | 2.00 | 0.595 | 1 |
| Perfluoropentanesulfonic Acid (PFPeS) | ND | | ng/l | 2.00 | 0.595 | 1 |
| 2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid (HFPO-DA) | ND | | ng/l | 2.00 | 0.595 | 1 |
| Perfluoroheptanoic Acid (PFHpA) | ND | | ng/l | 2.00 | 0.595 | 1 |
| Perfluorohexanesulfonic Acid (PFHxS) | ND | | ng/l | 2.00 | 0.595 | 1 |
| 4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA) | ND | | ng/l | 2.00 | 0.595 | 1 |
| 1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS) | ND | | ng/l | 2.00 | 0.595 | 1 |
| Perfluorooctanoic Acid (PFOA) | ND | | ng/l | 2.00 | 0.595 | 1 |
| Perfluoroheptanesulfonic Acid (PFHpS) | ND | | ng/l | 2.00 | 0.595 | 1 |
| Perfluorononanoic Acid (PFNA) | ND | | ng/l | 2.00 | 0.595 | 1 |
| Perfluorooctanesulfonic Acid (PFOS) | ND | | ng/l | 2.00 | 0.595 | 1 |
| 9-Chlorohexadecafluoro-3-Oxanonone-1-Sulfonic Acid (9Cl-PF3ONS) | ND | | ng/l | 2.00 | 0.595 | 1 |
| 1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS) | ND | | ng/l | 2.00 | 0.595 | 1 |
| Perfluorodecanoic Acid (PFDA) | ND | | ng/l | 2.00 | 0.595 | 1 |
| Perfluoroundecanoic Acid (PFUnA) | ND | | ng/l | 2.00 | 0.595 | 1 |
| 11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS) | ND | | ng/l | 2.00 | 0.595 | 1 |
| Perfluorododecanoic Acid (PFDoA) | ND | | ng/l | 2.00 | 0.595 | 1 |

Project Name: RAW AND TREATED WELL WATER
Project Number: 1531010

Lab Number: L2428628
Report Date: 06/06/24

SAMPLE RESULTS

Lab ID: L2428628-03
 Client ID: 1531010-512 (TP-2/9)
 Sample Location: WELLS AND TREATMENT PLANTS

Date Collected: 05/22/24 11:25
 Date Received: 05/23/24
 Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|----|-----|-----------------|
| Perfluorinated Alkyl Acids by EPA 533 - Mansfield Lab | | | | | | |

| Surrogate (Extracted Internal Standard) | % Recovery | Qualifier | Acceptance Criteria |
|--|------------|-----------|---------------------|
| Perfluoro[13C4]Butanoic Acid (MPFBA) | 101 | | 50-200 |
| Perfluoro[13C5]Pentanoic Acid (M5PFPEA) | 127 | | 50-200 |
| Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS) | 114 | | 50-200 |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS) | 90 | | 50-200 |
| Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA) | 99 | | 50-200 |
| Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA) | 85 | | 50-200 |
| Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS) | 109 | | 50-200 |
| Perfluoro[13C8]Octanoic Acid (M8PFOA) | 78 | | 50-200 |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS) | 88 | | 50-200 |
| Perfluoro[13C9]Nonanoic Acid (M9PFNA) | 90 | | 50-200 |
| Perfluoro[13C8]Octanesulfonic Acid (M8PFOS) | 107 | | 50-200 |
| Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA) | 89 | | 50-200 |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS) | 95 | | 50-200 |
| Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA) | 111 | | 50-200 |
| Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA) | 122 | | 50-200 |
| 2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-13C3-Propanoic Acid (M3HFPO-DA) | 101 | | 50-200 |

Project Name: RAW AND TREATED WELL WATER
Project Number: 1531010

Lab Number: L2428628
Report Date: 06/06/24

SAMPLE RESULTS

Lab ID: L2428628-04
Client ID: 1531010-011 (MVD-4R)
Sample Location: WELLS AND TREATMENT PLANTS

Date Collected: 05/22/24 10:55
Date Received: 05/23/24
Field Prep: Not Specified

Sample Depth:

Matrix: Dw
Analytical Method: 136,533
Analytical Date: 06/06/24 09:48
Analyst: CAP

Extraction Method: EPA 533
Extraction Date: 06/04/24 19:30

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|------|-------|-----------------|
| Perfluorinated Alkyl Acids by EPA 533 - Mansfield Lab | | | | | | |
| Perfluorobutanoic Acid (PFBA) | 5.28 | | ng/l | 2.00 | 0.592 | 1 |
| Perfluoro-3-Methoxypropanoic Acid (PFMPA) | ND | | ng/l | 2.00 | 0.592 | 1 |
| Perfluoropentanoic Acid (PFPeA) | 10.5 | | ng/l | 2.00 | 0.592 | 1 |
| Perfluorobutanesulfonic Acid (PFBS) | 5.74 | | ng/l | 2.00 | 0.592 | 1 |
| Perfluoro-4-Methoxybutanoic Acid (PFMBA) | ND | | ng/l | 2.00 | 0.592 | 1 |
| Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA) | ND | | ng/l | 2.00 | 0.592 | 1 |
| Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA) | ND | | ng/l | 2.00 | 0.592 | 1 |
| 1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS) | ND | | ng/l | 2.00 | 0.592 | 1 |
| Perfluorohexanoic Acid (PFHxA) | 16.5 | | ng/l | 2.00 | 0.592 | 1 |
| Perfluoropentanesulfonic Acid (PFPeS) | 0.638 | J | ng/l | 2.00 | 0.592 | 1 |
| 2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid (HFPO-DA) | ND | | ng/l | 2.00 | 0.592 | 1 |
| Perfluoroheptanoic Acid (PFHpA) | 14.8 | | ng/l | 2.00 | 0.592 | 1 |
| Perfluorohexanesulfonic Acid (PFHxS) | 3.08 | | ng/l | 2.00 | 0.592 | 1 |
| 4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA) | ND | | ng/l | 2.00 | 0.592 | 1 |
| 1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS) | ND | | ng/l | 2.00 | 0.592 | 1 |
| Perfluorooctanoic Acid (PFOA) | 86.5 | | ng/l | 2.00 | 0.592 | 1 |
| Perfluoroheptanesulfonic Acid (PFHpS) | ND | | ng/l | 2.00 | 0.592 | 1 |
| Perfluorononanoic Acid (PFNA) | 0.709 | J | ng/l | 2.00 | 0.592 | 1 |
| Perfluorooctanesulfonic Acid (PFOS) | 3.23 | | ng/l | 2.00 | 0.592 | 1 |
| 9-Chlorohexadecafluoro-3-Oxanonone-1-Sulfonic Acid (9Cl-PF3ONS) | ND | | ng/l | 2.00 | 0.592 | 1 |
| 1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS) | ND | | ng/l | 2.00 | 0.592 | 1 |
| Perfluorodecanoic Acid (PFDA) | ND | | ng/l | 2.00 | 0.592 | 1 |
| Perfluoroundecanoic Acid (PFUnA) | ND | | ng/l | 2.00 | 0.592 | 1 |
| 11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS) | ND | | ng/l | 2.00 | 0.592 | 1 |
| Perfluorododecanoic Acid (PFDoA) | ND | | ng/l | 2.00 | 0.592 | 1 |

Project Name: RAW AND TREATED WELL WATER
Project Number: 1531010

Lab Number: L2428628
Report Date: 06/06/24

SAMPLE RESULTS

Lab ID: L2428628-04
 Client ID: 1531010-011 (MVD-4R)
 Sample Location: WELLS AND TREATMENT PLANTS

Date Collected: 05/22/24 10:55
 Date Received: 05/23/24
 Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|----|-----|-----------------|
| Perfluorinated Alkyl Acids by EPA 533 - Mansfield Lab | | | | | | |

| Surrogate (Extracted Internal Standard) | % Recovery | Qualifier | Acceptance Criteria |
|--|------------|-----------|---------------------|
| Perfluoro[13C4]Butanoic Acid (MPFBA) | 117 | | 50-200 |
| Perfluoro[13C5]Pentanoic Acid (M5PFPEA) | 135 | | 50-200 |
| Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS) | 113 | | 50-200 |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS) | 130 | | 50-200 |
| Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA) | 121 | | 50-200 |
| Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA) | 107 | | 50-200 |
| Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS) | 113 | | 50-200 |
| Perfluoro[13C8]Octanoic Acid (M8PFOA) | 103 | | 50-200 |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS) | 107 | | 50-200 |
| Perfluoro[13C9]Nonanoic Acid (M9PFNA) | 111 | | 50-200 |
| Perfluoro[13C8]Octanesulfonic Acid (M8PFOS) | 121 | | 50-200 |
| Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA) | 110 | | 50-200 |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS) | 107 | | 50-200 |
| Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA) | 129 | | 50-200 |
| Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA) | 144 | | 50-200 |
| 2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-13C3-Propanoic Acid (M3HFPO-DA) | 114 | | 50-200 |

Project Name: RAW AND TREATED WELL WATER
Project Number: 1531010

Lab Number: L2428628
Report Date: 06/06/24

SAMPLE RESULTS

Lab ID: L2428628-05
Client ID: 1531010_005 (MVD-5)
Sample Location: WELLS AND TREATMENT PLANTS

Date Collected: 05/22/24 10:57
Date Received: 05/23/24
Field Prep: Not Specified

Sample Depth:

Matrix: Dw
Analytical Method: 136,533
Analytical Date: 06/06/24 09:56
Analyst: CAP

Extraction Method: EPA 533
Extraction Date: 06/04/24 19:30

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|------|-------|-----------------|
| Perfluorinated Alkyl Acids by EPA 533 - Mansfield Lab | | | | | | |
| Perfluorobutanoic Acid (PFBA) | 5.14 | | ng/l | 2.00 | 0.592 | 1 |
| Perfluoro-3-Methoxypropanoic Acid (PFMPA) | ND | | ng/l | 2.00 | 0.592 | 1 |
| Perfluoropentanoic Acid (PFPeA) | 12.0 | | ng/l | 2.00 | 0.592 | 1 |
| Perfluorobutanesulfonic Acid (PFBS) | 6.94 | | ng/l | 2.00 | 0.592 | 1 |
| Perfluoro-4-Methoxybutanoic Acid (PFMBA) | ND | | ng/l | 2.00 | 0.592 | 1 |
| Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA) | ND | | ng/l | 2.00 | 0.592 | 1 |
| Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA) | ND | | ng/l | 2.00 | 0.592 | 1 |
| 1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS) | ND | | ng/l | 2.00 | 0.592 | 1 |
| Perfluorohexanoic Acid (PFHxA) | 16.6 | | ng/l | 2.00 | 0.592 | 1 |
| Perfluoropentanesulfonic Acid (PFPeS) | ND | | ng/l | 2.00 | 0.592 | 1 |
| 2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid (HFPO-DA) | ND | | ng/l | 2.00 | 0.592 | 1 |
| Perfluoroheptanoic Acid (PFHpA) | 12.7 | | ng/l | 2.00 | 0.592 | 1 |
| Perfluorohexanesulfonic Acid (PFHxS) | 3.22 | | ng/l | 2.00 | 0.592 | 1 |
| 4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA) | ND | | ng/l | 2.00 | 0.592 | 1 |
| 1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS) | ND | | ng/l | 2.00 | 0.592 | 1 |
| Perfluorooctanoic Acid (PFOA) | 70.4 | | ng/l | 2.00 | 0.592 | 1 |
| Perfluoroheptanesulfonic Acid (PFHpS) | ND | | ng/l | 2.00 | 0.592 | 1 |
| Perfluorononanoic Acid (PFNA) | ND | | ng/l | 2.00 | 0.592 | 1 |
| Perfluorooctanesulfonic Acid (PFOS) | 2.23 | | ng/l | 2.00 | 0.592 | 1 |
| 9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS) | ND | | ng/l | 2.00 | 0.592 | 1 |
| 1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS) | ND | | ng/l | 2.00 | 0.592 | 1 |
| Perfluorodecanoic Acid (PFDA) | ND | | ng/l | 2.00 | 0.592 | 1 |
| Perfluoroundecanoic Acid (PFUnA) | ND | | ng/l | 2.00 | 0.592 | 1 |
| 11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS) | ND | | ng/l | 2.00 | 0.592 | 1 |
| Perfluorododecanoic Acid (PFDoA) | ND | | ng/l | 2.00 | 0.592 | 1 |

Project Name: RAW AND TREATED WELL WATER
Project Number: 1531010

Lab Number: L2428628
Report Date: 06/06/24

SAMPLE RESULTS

Lab ID: L2428628-05
 Client ID: 1531010_005 (MVD-5)
 Sample Location: WELLS AND TREATMENT PLANTS

Date Collected: 05/22/24 10:57
 Date Received: 05/23/24
 Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|----|-----|-----------------|
| Perfluorinated Alkyl Acids by EPA 533 - Mansfield Lab | | | | | | |

| Surrogate (Extracted Internal Standard) | % Recovery | Qualifier | Acceptance Criteria |
|--|------------|-----------|---------------------|
| Perfluoro[13C4]Butanoic Acid (MPFBA) | 108 | | 50-200 |
| Perfluoro[13C5]Pentanoic Acid (M5PFPEA) | 120 | | 50-200 |
| Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS) | 102 | | 50-200 |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS) | 121 | | 50-200 |
| Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA) | 103 | | 50-200 |
| Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA) | 89 | | 50-200 |
| Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS) | 102 | | 50-200 |
| Perfluoro[13C8]Octanoic Acid (M8PFOA) | 84 | | 50-200 |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS) | 98 | | 50-200 |
| Perfluoro[13C9]Nonanoic Acid (M9PFNA) | 89 | | 50-200 |
| Perfluoro[13C8]Octanesulfonic Acid (M8PFOS) | 108 | | 50-200 |
| Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA) | 95 | | 50-200 |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS) | 95 | | 50-200 |
| Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA) | 108 | | 50-200 |
| Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA) | 121 | | 50-200 |
| 2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-13C3-Propanoic Acid (M3HFPO-DA) | 95 | | 50-200 |

Project Name: RAW AND TREATED WELL WATER
Project Number: 1531010

Lab Number: L2428628
Report Date: 06/06/24

SAMPLE RESULTS

Lab ID: L2428628-06
 Client ID: 1531010_509 (TP-4/5)
 Sample Location: WELLS AND TREATMENT PLANTS

Date Collected: 05/22/24 10:50
 Date Received: 05/23/24
 Field Prep: Not Specified

Sample Depth:

Matrix: Dw
 Analytical Method: 136,533
 Analytical Date: 06/06/24 10:05
 Analyst: CAP

Extraction Method: EPA 533
 Extraction Date: 06/04/24 19:30

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|------|-------|-----------------|
| Perfluorinated Alkyl Acids by EPA 533 - Mansfield Lab | | | | | | |
| Perfluorobutanoic Acid (PFBA) | ND | | ng/l | 2.00 | 0.614 | 1 |
| Perfluoro-3-Methoxypropanoic Acid (PFMPA) | ND | | ng/l | 2.00 | 0.614 | 1 |
| Perfluoropentanoic Acid (PFPeA) | ND | | ng/l | 2.00 | 0.614 | 1 |
| Perfluorobutanesulfonic Acid (PFBS) | ND | | ng/l | 2.00 | 0.614 | 1 |
| Perfluoro-4-Methoxybutanoic Acid (PFMBA) | ND | | ng/l | 2.00 | 0.614 | 1 |
| Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA) | ND | | ng/l | 2.00 | 0.614 | 1 |
| Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA) | ND | | ng/l | 2.00 | 0.614 | 1 |
| 1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS) | ND | | ng/l | 2.00 | 0.614 | 1 |
| Perfluorohexanoic Acid (PFHxA) | ND | | ng/l | 2.00 | 0.614 | 1 |
| Perfluoropentanesulfonic Acid (PFPeS) | ND | | ng/l | 2.00 | 0.614 | 1 |
| 2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid (HFPO-DA) | ND | | ng/l | 2.00 | 0.614 | 1 |
| Perfluoroheptanoic Acid (PFHpA) | ND | | ng/l | 2.00 | 0.614 | 1 |
| Perfluorohexanesulfonic Acid (PFHxS) | ND | | ng/l | 2.00 | 0.614 | 1 |
| 4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA) | ND | | ng/l | 2.00 | 0.614 | 1 |
| 1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS) | ND | | ng/l | 2.00 | 0.614 | 1 |
| Perfluorooctanoic Acid (PFOA) | ND | | ng/l | 2.00 | 0.614 | 1 |
| Perfluoroheptanesulfonic Acid (PFHpS) | ND | | ng/l | 2.00 | 0.614 | 1 |
| Perfluorononanoic Acid (PFNA) | ND | | ng/l | 2.00 | 0.614 | 1 |
| Perfluorooctanesulfonic Acid (PFOS) | ND | | ng/l | 2.00 | 0.614 | 1 |
| 9-Chlorohexadecafluoro-3-Oxanonone-1-Sulfonic Acid (9Cl-PF3ONS) | ND | | ng/l | 2.00 | 0.614 | 1 |
| 1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS) | ND | | ng/l | 2.00 | 0.614 | 1 |
| Perfluorodecanoic Acid (PFDA) | ND | | ng/l | 2.00 | 0.614 | 1 |
| Perfluoroundecanoic Acid (PFUnA) | ND | | ng/l | 2.00 | 0.614 | 1 |
| 11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS) | ND | | ng/l | 2.00 | 0.614 | 1 |
| Perfluorododecanoic Acid (PFDoA) | ND | | ng/l | 2.00 | 0.614 | 1 |

Project Name: RAW AND TREATED WELL WATER
Project Number: 1531010

Lab Number: L2428628
Report Date: 06/06/24

SAMPLE RESULTS

Lab ID: L2428628-06
 Client ID: 1531010_509 (TP-4/5)
 Sample Location: WELLS AND TREATMENT PLANTS

Date Collected: 05/22/24 10:50
 Date Received: 05/23/24
 Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|----|-----|-----------------|
| Perfluorinated Alkyl Acids by EPA 533 - Mansfield Lab | | | | | | |

| Surrogate (Extracted Internal Standard) | % Recovery | Qualifier | Acceptance Criteria |
|--|------------|-----------|---------------------|
| Perfluoro[13C4]Butanoic Acid (MPFBA) | 93 | | 50-200 |
| Perfluoro[13C5]Pentanoic Acid (M5PFPEA) | 118 | | 50-200 |
| Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS) | 105 | | 50-200 |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS) | 92 | | 50-200 |
| Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA) | 99 | | 50-200 |
| Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA) | 79 | | 50-200 |
| Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS) | 100 | | 50-200 |
| Perfluoro[13C8]Octanoic Acid (M8PFOA) | 79 | | 50-200 |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS) | 90 | | 50-200 |
| Perfluoro[13C9]Nonanoic Acid (M9PFNA) | 83 | | 50-200 |
| Perfluoro[13C8]Octanesulfonic Acid (M8PFOS) | 105 | | 50-200 |
| Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA) | 84 | | 50-200 |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS) | 90 | | 50-200 |
| Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA) | 100 | | 50-200 |
| Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA) | 116 | | 50-200 |
| 2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-13C3-Propanoic Acid (M3HFPO-DA) | 94 | | 50-200 |

Project Name: RAW AND TREATED WELL WATER
Project Number: 1531010

Lab Number: L2428628
Report Date: 06/06/24

SAMPLE RESULTS

Lab ID: L2428628-07
Client ID: 1531010_007 (MVD-7)
Sample Location: WELLS AND TREATMENT PLANTS

Date Collected: 05/22/24 10:15
Date Received: 05/23/24
Field Prep: Not Specified

Sample Depth:

Matrix: Dw
Analytical Method: 136,533
Analytical Date: 06/06/24 10:14
Analyst: CAP

Extraction Method: EPA 533
Extraction Date: 06/04/24 19:30

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|------|-------|-----------------|
| Perfluorinated Alkyl Acids by EPA 533 - Mansfield Lab | | | | | | |
| Perfluorobutanoic Acid (PFBA) | 2.15 | | ng/l | 2.00 | 0.619 | 1 |
| Perfluoro-3-Methoxypropanoic Acid (PFMPA) | ND | | ng/l | 2.00 | 0.619 | 1 |
| Perfluoropentanoic Acid (PFPeA) | 2.15 | | ng/l | 2.00 | 0.619 | 1 |
| Perfluorobutanesulfonic Acid (PFBS) | 2.19 | | ng/l | 2.00 | 0.619 | 1 |
| Perfluoro-4-Methoxybutanoic Acid (PFMBA) | ND | | ng/l | 2.00 | 0.619 | 1 |
| Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA) | ND | | ng/l | 2.00 | 0.619 | 1 |
| Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA) | ND | | ng/l | 2.00 | 0.619 | 1 |
| 1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS) | ND | | ng/l | 2.00 | 0.619 | 1 |
| Perfluorohexanoic Acid (PFHxA) | 2.45 | | ng/l | 2.00 | 0.619 | 1 |
| Perfluoropentanesulfonic Acid (PFPeS) | ND | | ng/l | 2.00 | 0.619 | 1 |
| 2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid (HFPO-DA) | ND | | ng/l | 2.00 | 0.619 | 1 |
| Perfluoroheptanoic Acid (PFHpA) | 2.93 | | ng/l | 2.00 | 0.619 | 1 |
| Perfluorohexanesulfonic Acid (PFHxS) | 1.37 | J | ng/l | 2.00 | 0.619 | 1 |
| 4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA) | ND | | ng/l | 2.00 | 0.619 | 1 |
| 1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS) | ND | | ng/l | 2.00 | 0.619 | 1 |
| Perfluorooctanoic Acid (PFOA) | 24.6 | | ng/l | 2.00 | 0.619 | 1 |
| Perfluoroheptanesulfonic Acid (PFHpS) | ND | | ng/l | 2.00 | 0.619 | 1 |
| Perfluorononanoic Acid (PFNA) | ND | | ng/l | 2.00 | 0.619 | 1 |
| Perfluorooctanesulfonic Acid (PFOS) | 3.15 | | ng/l | 2.00 | 0.619 | 1 |
| 9-Chlorohexadecafluoro-3-Oxanonone-1-Sulfonic Acid (9Cl-PF3ONS) | ND | | ng/l | 2.00 | 0.619 | 1 |
| 1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS) | ND | | ng/l | 2.00 | 0.619 | 1 |
| Perfluorodecanoic Acid (PFDA) | ND | | ng/l | 2.00 | 0.619 | 1 |
| Perfluoroundecanoic Acid (PFUnA) | ND | | ng/l | 2.00 | 0.619 | 1 |
| 11-Chloroeicosafuoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS) | ND | | ng/l | 2.00 | 0.619 | 1 |
| Perfluorododecanoic Acid (PFDoA) | ND | | ng/l | 2.00 | 0.619 | 1 |

Project Name: RAW AND TREATED WELL WATER
Project Number: 1531010

Lab Number: L2428628
Report Date: 06/06/24

SAMPLE RESULTS

Lab ID: L2428628-07
 Client ID: 1531010_007 (MVD-7)
 Sample Location: WELLS AND TREATMENT PLANTS

Date Collected: 05/22/24 10:15
 Date Received: 05/23/24
 Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|--|--------|-----------|------------|-----------|---------------------|-----------------|
| Perfluorinated Alkyl Acids by EPA 533 - Mansfield Lab | | | | | | |
| Surrogate (Extracted Internal Standard) | | | % Recovery | Qualifier | Acceptance Criteria | |
| Perfluoro[13C4]Butanoic Acid (MPFBA) | | | 99 | | 50-200 | |
| Perfluoro[13C5]Pentanoic Acid (M5PFPEA) | | | 99 | | 50-200 | |
| Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS) | | | 89 | | 50-200 | |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS) | | | 132 | | 50-200 | |
| Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA) | | | 94 | | 50-200 | |
| Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA) | | | 90 | | 50-200 | |
| Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS) | | | 94 | | 50-200 | |
| Perfluoro[13C8]Octanoic Acid (M8PFOA) | | | 89 | | 50-200 | |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS) | | | 108 | | 50-200 | |
| Perfluoro[13C9]Nonanoic Acid (M9PFNA) | | | 101 | | 50-200 | |
| Perfluoro[13C8]Octanesulfonic Acid (M8PFOS) | | | 101 | | 50-200 | |
| Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA) | | | 93 | | 50-200 | |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS) | | | 98 | | 50-200 | |
| Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA) | | | 111 | | 50-200 | |
| Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA) | | | 113 | | 50-200 | |
| 2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-13C3-Propanoic Acid (M3HFPO-DA) | | | 87 | | 50-200 | |

Project Name: RAW AND TREATED WELL WATER
Project Number: 1531010

Lab Number: L2428628
Report Date: 06/06/24

SAMPLE RESULTS

Lab ID: L2428628-08
 Client ID: 1531010_009 (MVD-8)
 Sample Location: WELLS AND TREATMENT PLANTS

Date Collected: 05/22/24 10:20
 Date Received: 05/23/24
 Field Prep: Not Specified

Sample Depth:

Matrix: Dw
 Analytical Method: 136,533
 Analytical Date: 06/06/24 10:22
 Analyst: CAP

Extraction Method: EPA 533
 Extraction Date: 06/04/24 19:30

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|------|-------|-----------------|
| Perfluorinated Alkyl Acids by EPA 533 - Mansfield Lab | | | | | | |
| Perfluorobutanoic Acid (PFBA) | 1.89 | J | ng/l | 2.00 | 0.594 | 1 |
| Perfluoro-3-Methoxypropanoic Acid (PFMPA) | ND | | ng/l | 2.00 | 0.594 | 1 |
| Perfluoropentanoic Acid (PFPeA) | 2.42 | | ng/l | 2.00 | 0.594 | 1 |
| Perfluorobutanesulfonic Acid (PFBS) | 1.92 | J | ng/l | 2.00 | 0.594 | 1 |
| Perfluoro-4-Methoxybutanoic Acid (PFMBA) | ND | | ng/l | 2.00 | 0.594 | 1 |
| Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA) | ND | | ng/l | 2.00 | 0.594 | 1 |
| Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA) | ND | | ng/l | 2.00 | 0.594 | 1 |
| 1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS) | ND | | ng/l | 2.00 | 0.594 | 1 |
| Perfluorohexanoic Acid (PFHxA) | 2.95 | | ng/l | 2.00 | 0.594 | 1 |
| Perfluoropentanesulfonic Acid (PFPeS) | ND | | ng/l | 2.00 | 0.594 | 1 |
| 2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid (HFPO-DA) | ND | | ng/l | 2.00 | 0.594 | 1 |
| Perfluoroheptanoic Acid (PFHpA) | 3.10 | | ng/l | 2.00 | 0.594 | 1 |
| Perfluorohexanesulfonic Acid (PFHxS) | 1.17 | J | ng/l | 2.00 | 0.594 | 1 |
| 4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA) | ND | | ng/l | 2.00 | 0.594 | 1 |
| 1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS) | ND | | ng/l | 2.00 | 0.594 | 1 |
| Perfluorooctanoic Acid (PFOA) | 22.9 | | ng/l | 2.00 | 0.594 | 1 |
| Perfluoroheptanesulfonic Acid (PFHpS) | ND | | ng/l | 2.00 | 0.594 | 1 |
| Perfluorononanoic Acid (PFNA) | ND | | ng/l | 2.00 | 0.594 | 1 |
| Perfluorooctanesulfonic Acid (PFOS) | 1.82 | J | ng/l | 2.00 | 0.594 | 1 |
| 9-Chlorohexadecafluoro-3-Oxanonone-1-Sulfonic Acid (9Cl-PF3ONS) | ND | | ng/l | 2.00 | 0.594 | 1 |
| 1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS) | ND | | ng/l | 2.00 | 0.594 | 1 |
| Perfluorodecanoic Acid (PFDA) | ND | | ng/l | 2.00 | 0.594 | 1 |
| Perfluoroundecanoic Acid (PFUnA) | ND | | ng/l | 2.00 | 0.594 | 1 |
| 11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS) | ND | | ng/l | 2.00 | 0.594 | 1 |
| Perfluorododecanoic Acid (PFDoA) | ND | | ng/l | 2.00 | 0.594 | 1 |

Project Name: RAW AND TREATED WELL WATER
Project Number: 1531010

Lab Number: L2428628
Report Date: 06/06/24

SAMPLE RESULTS

Lab ID: L2428628-08
 Client ID: 1531010_009 (MVD-8)
 Sample Location: WELLS AND TREATMENT PLANTS

Date Collected: 05/22/24 10:20
 Date Received: 05/23/24
 Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|--|--------|-----------|------------|-----------|---------------------|-----------------|
| Perfluorinated Alkyl Acids by EPA 533 - Mansfield Lab | | | | | | |
| Surrogate (Extracted Internal Standard) | | | % Recovery | Qualifier | Acceptance Criteria | |
| Perfluoro[13C4]Butanoic Acid (MPFBA) | | | 101 | | 50-200 | |
| Perfluoro[13C5]Pentanoic Acid (M5PFPEA) | | | 102 | | 50-200 | |
| Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS) | | | 92 | | 50-200 | |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS) | | | 133 | | 50-200 | |
| Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA) | | | 100 | | 50-200 | |
| Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA) | | | 90 | | 50-200 | |
| Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS) | | | 99 | | 50-200 | |
| Perfluoro[13C8]Octanoic Acid (M8PFOA) | | | 79 | | 50-200 | |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS) | | | 114 | | 50-200 | |
| Perfluoro[13C9]Nonanoic Acid (M9PFNA) | | | 72 | | 50-200 | |
| Perfluoro[13C8]Octanesulfonic Acid (M8PFOS) | | | 105 | | 50-200 | |
| Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA) | | | 64 | | 50-200 | |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS) | | | 97 | | 50-200 | |
| Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA) | | | 83 | | 50-200 | |
| Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA) | | | 104 | | 50-200 | |
| 2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-13C3-Propanoic Acid (M3HFPO-DA) | | | 88 | | 50-200 | |

Project Name: RAW AND TREATED WELL WATER
Project Number: 1531010

Lab Number: L2428628
Report Date: 06/06/24

SAMPLE RESULTS

Lab ID: L2428628-09
Client ID: 1531010_510 (TP-7/8)
Sample Location: WELLS AND TREATMENT PLANTS

Date Collected: 05/22/24 10:25
Date Received: 05/23/24
Field Prep: Not Specified

Sample Depth:

Matrix: Dw
Analytical Method: 136,533
Analytical Date: 06/06/24 10:31
Analyst: CAP

Extraction Method: EPA 533
Extraction Date: 06/04/24 19:30

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|------|-------|-----------------|
| Perfluorinated Alkyl Acids by EPA 533 - Mansfield Lab | | | | | | |
| Perfluorobutanoic Acid (PFBA) | ND | | ng/l | 2.00 | 0.611 | 1 |
| Perfluoro-3-Methoxypropanoic Acid (PFMPA) | ND | | ng/l | 2.00 | 0.611 | 1 |
| Perfluoropentanoic Acid (PFPeA) | ND | | ng/l | 2.00 | 0.611 | 1 |
| Perfluorobutanesulfonic Acid (PFBS) | ND | | ng/l | 2.00 | 0.611 | 1 |
| Perfluoro-4-Methoxybutanoic Acid (PFMBA) | ND | | ng/l | 2.00 | 0.611 | 1 |
| Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA) | ND | | ng/l | 2.00 | 0.611 | 1 |
| Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA) | ND | | ng/l | 2.00 | 0.611 | 1 |
| 1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS) | ND | | ng/l | 2.00 | 0.611 | 1 |
| Perfluorohexanoic Acid (PFHxA) | ND | | ng/l | 2.00 | 0.611 | 1 |
| Perfluoropentanesulfonic Acid (PFPeS) | ND | | ng/l | 2.00 | 0.611 | 1 |
| 2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid (HFPO-DA) | ND | | ng/l | 2.00 | 0.611 | 1 |
| Perfluoroheptanoic Acid (PFHpA) | ND | | ng/l | 2.00 | 0.611 | 1 |
| Perfluorohexanesulfonic Acid (PFHxS) | ND | | ng/l | 2.00 | 0.611 | 1 |
| 4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA) | ND | | ng/l | 2.00 | 0.611 | 1 |
| 1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS) | ND | | ng/l | 2.00 | 0.611 | 1 |
| Perfluorooctanoic Acid (PFOA) | ND | | ng/l | 2.00 | 0.611 | 1 |
| Perfluoroheptanesulfonic Acid (PFHpS) | ND | | ng/l | 2.00 | 0.611 | 1 |
| Perfluorononanoic Acid (PFNA) | ND | | ng/l | 2.00 | 0.611 | 1 |
| Perfluorooctanesulfonic Acid (PFOS) | ND | | ng/l | 2.00 | 0.611 | 1 |
| 9-Chlorohexadecafluoro-3-Oxanonone-1-Sulfonic Acid (9Cl-PF3ONS) | ND | | ng/l | 2.00 | 0.611 | 1 |
| 1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS) | ND | | ng/l | 2.00 | 0.611 | 1 |
| Perfluorodecanoic Acid (PFDA) | ND | | ng/l | 2.00 | 0.611 | 1 |
| Perfluoroundecanoic Acid (PFUnA) | ND | | ng/l | 2.00 | 0.611 | 1 |
| 11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS) | ND | | ng/l | 2.00 | 0.611 | 1 |
| Perfluorododecanoic Acid (PFDoA) | ND | | ng/l | 2.00 | 0.611 | 1 |

Project Name: RAW AND TREATED WELL WATER
Project Number: 1531010

Lab Number: L2428628
Report Date: 06/06/24

SAMPLE RESULTS

Lab ID: L2428628-09
 Client ID: 1531010_510 (TP-7/8)
 Sample Location: WELLS AND TREATMENT PLANTS

Date Collected: 05/22/24 10:25
 Date Received: 05/23/24
 Field Prep: Not Specified

Sample Depth:

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|--------|-----------|-------|----|-----|-----------------|
| Perfluorinated Alkyl Acids by EPA 533 - Mansfield Lab | | | | | | |

| Surrogate (Extracted Internal Standard) | % Recovery | Qualifier | Acceptance Criteria |
|--|------------|-----------|---------------------|
| Perfluoro[13C4]Butanoic Acid (MPFBA) | 91 | | 50-200 |
| Perfluoro[13C5]Pentanoic Acid (M5PFPEA) | 112 | | 50-200 |
| Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS) | 111 | | 50-200 |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS) | 95 | | 50-200 |
| Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA) | 92 | | 50-200 |
| Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA) | 78 | | 50-200 |
| Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS) | 107 | | 50-200 |
| Perfluoro[13C8]Octanoic Acid (M8PFOA) | 77 | | 50-200 |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS) | 93 | | 50-200 |
| Perfluoro[13C9]Nonanoic Acid (M9PFNA) | 93 | | 50-200 |
| Perfluoro[13C8]Octanesulfonic Acid (M8PFOS) | 112 | | 50-200 |
| Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA) | 99 | | 50-200 |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS) | 100 | | 50-200 |
| Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA) | 122 | | 50-200 |
| Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA) | 131 | | 50-200 |
| 2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-13C3-Propanoic Acid (M3HFPO-DA) | 92 | | 50-200 |

Project Name: RAW AND TREATED WELL WATER
Project Number: 1531010

Lab Number: L2428628
Report Date: 06/06/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 136,533
Analytical Date: 06/06/24 08:10
Analyst: CAP

Extraction Method: EPA 533
Extraction Date: 06/04/24 19:30

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|--------|-----------|-------|------|-------|
| Perfluorinated Alkyl Acids by EPA 533 - Mansfield Lab for sample(s): 01-09 Batch: WG1929621-1 | | | | | |
| Perfluorobutanoic Acid (PFBA) | ND | | ng/l | 2.00 | 0.668 |
| Perfluoro-3-Methoxypropanoic Acid (PFMPA) | ND | | ng/l | 2.00 | 0.668 |
| Perfluoropentanoic Acid (PFPeA) | ND | | ng/l | 2.00 | 0.668 |
| Perfluorobutanesulfonic Acid (PFBS) | ND | | ng/l | 2.00 | 0.668 |
| Perfluoro-4-Methoxybutanoic Acid (PFMBA) | ND | | ng/l | 2.00 | 0.668 |
| Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEEESA) | ND | | ng/l | 2.00 | 0.668 |
| Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA) | ND | | ng/l | 2.00 | 0.668 |
| 1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS) | ND | | ng/l | 2.00 | 0.668 |
| Perfluorohexanoic Acid (PFHxA) | ND | | ng/l | 2.00 | 0.668 |
| Perfluoropentanesulfonic Acid (PFPeS) | ND | | ng/l | 2.00 | 0.668 |
| 2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid (HFPO-DA) | ND | | ng/l | 2.00 | 0.668 |
| Perfluoroheptanoic Acid (PFHpA) | ND | | ng/l | 2.00 | 0.668 |
| Perfluorohexanesulfonic Acid (PFHxS) | ND | | ng/l | 2.00 | 0.668 |
| 4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA) | ND | | ng/l | 2.00 | 0.668 |
| 1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS) | ND | | ng/l | 2.00 | 0.668 |
| Perfluorooctanoic Acid (PFOA) | ND | | ng/l | 2.00 | 0.668 |
| Perfluoroheptanesulfonic Acid (PFHpS) | ND | | ng/l | 2.00 | 0.668 |
| Perfluorononanoic Acid (PFNA) | ND | | ng/l | 2.00 | 0.668 |
| Perfluorooctanesulfonic Acid (PFOS) | ND | | ng/l | 2.00 | 0.668 |
| 9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS) | ND | | ng/l | 2.00 | 0.668 |
| 1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS) | ND | | ng/l | 2.00 | 0.668 |
| Perfluorodecanoic Acid (PFDA) | ND | | ng/l | 2.00 | 0.668 |
| Perfluoroundecanoic Acid (PFUnA) | ND | | ng/l | 2.00 | 0.668 |
| 11-Chloroeicosafuoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS) | ND | | ng/l | 2.00 | 0.668 |
| Perfluorododecanoic Acid (PFDoA) | ND | | ng/l | 2.00 | 0.668 |

Project Name: RAW AND TREATED WELL WATER
Project Number: 1531010

Lab Number: L2428628
Report Date: 06/06/24

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 136,533
Analytical Date: 06/06/24 08:10
Analyst: CAP

Extraction Method: EPA 533
Extraction Date: 06/04/24 19:30

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|--------|-----------|-------|----|-----|
| Perfluorinated Alkyl Acids by EPA 533 - Mansfield Lab for sample(s): 01-09 Batch: WG1929621-1 | | | | | |

| Surrogate (Extracted Internal Standard) | %Recovery | Qualifier | Acceptance Criteria |
|--|-----------|-----------|---------------------|
| Perfluoro[13C4]Butanoic Acid (MPFBA) | 106 | | 50-200 |
| Perfluoro[13C5]Pentanoic Acid (M5PFPEA) | 127 | | 50-200 |
| Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS) | 107 | | 50-200 |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS) | 99 | | 50-200 |
| Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA) | 117 | | 50-200 |
| Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA) | 99 | | 50-200 |
| Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS) | 97 | | 50-200 |
| Perfluoro[13C8]Octanoic Acid (M8PFOA) | 101 | | 50-200 |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS) | 86 | | 50-200 |
| Perfluoro[13C9]Nonanoic Acid (M9PFNA) | 119 | | 50-200 |
| Perfluoro[13C8]Octanesulfonic Acid (M8PFOS) | 101 | | 50-200 |
| Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA) | 113 | | 50-200 |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS) | 96 | | 50-200 |
| Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA) | 126 | | 50-200 |
| Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA) | 129 | | 50-200 |
| 2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-13C3-Propanoic Acid (M3HFPO-DA) | 123 | | 50-200 |

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAW AND TREATED WELL WATER

Lab Number: L2428628

Project Number: 1531010

Report Date: 06/06/24

| Parameter | LCS | Qual | LCS | Qual | %Recovery | RPD | Qual | RPD |
|--|-----------|------|-----------|------|-----------|-----|------|--------|
| | %Recovery | | %Recovery | | Limits | | | Limits |
| Perfluorinated Alkyl Acids by EPA 533 - Mansfield Lab Associated sample(s): 01-09 Batch: WG1929621-2 | | | | | | | | |
| Perfluorobutanoic Acid (PFBA) | 110 | | - | | 70-130 | - | | 30 |
| Perfluoro-3-Methoxypropanoic Acid (PFMPA) | 114 | | - | | 70-130 | - | | 30 |
| Perfluoropentanoic Acid (PFPeA) | 107 | | - | | 70-130 | - | | 30 |
| Perfluorobutanesulfonic Acid (PFBS) | 108 | | - | | 70-130 | - | | 30 |
| Perfluoro-4-Methoxybutanoic Acid (PFMBA) | 103 | | - | | 70-130 | - | | 30 |
| Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEEESA) | 106 | | - | | 70-130 | - | | 30 |
| Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA) | 97 | | - | | 70-130 | - | | 30 |
| 1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS) | 101 | | - | | 70-130 | - | | 30 |
| Perfluorohexanoic Acid (PFHxA) | 112 | | - | | 70-130 | - | | 30 |
| Perfluoropentanesulfonic Acid (PFPeS) | 111 | | - | | 70-130 | - | | 30 |
| 2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid (HFPO-DA) | 111 | | - | | 70-130 | - | | 30 |
| Perfluoroheptanoic Acid (PFHpA) | 117 | | - | | 70-130 | - | | 30 |
| Perfluorohexanesulfonic Acid (PFHxS) | 104 | | - | | 70-130 | - | | 30 |
| 4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA) | 127 | | - | | 70-130 | - | | 30 |
| 1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS) | 115 | | - | | 70-130 | - | | 30 |
| Perfluorooctanoic Acid (PFOA) | 110 | | - | | 70-130 | - | | 30 |
| Perfluoroheptanesulfonic Acid (PFHpS) | 98 | | - | | 70-130 | - | | 30 |
| Perfluorononanoic Acid (PFNA) | 105 | | - | | 70-130 | - | | 30 |
| Perfluorooctanesulfonic Acid (PFOS) | 102 | | - | | 70-130 | - | | 30 |
| 9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS) | 104 | | - | | 70-130 | - | | 30 |
| 1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS) | 114 | | - | | 70-130 | - | | 30 |

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAW AND TREATED WELL WATER

Lab Number: L2428628

Project Number: 1531010

Report Date: 06/06/24

| Parameter | LCS | | LCSD | | %Recovery Limits | RPD | RPD | |
|--|-----------|------|-----------|------|------------------|-----|------|--------|
| | %Recovery | Qual | %Recovery | Qual | | | Qual | Limits |
| Perfluorinated Alkyl Acids by EPA 533 - Mansfield Lab Associated sample(s): 01-09 Batch: WG1929621-2 | | | | | | | | |
| Perfluorodecanoic Acid (PFDA) | 113 | | - | | 70-130 | - | | 30 |
| Perfluoroundecanoic Acid (PFUnA) | 107 | | - | | 70-130 | - | | 30 |
| 11-Chloroeicosafuoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS) | 117 | | - | | 70-130 | - | | 30 |
| Perfluorododecanoic Acid (PFDoA) | 107 | | - | | 70-130 | - | | 30 |

| Surrogate (Extracted Internal Standard) | LCS | | LCSD | | Acceptance Criteria |
|--|-----------|------|-----------|------|---------------------|
| | %Recovery | Qual | %Recovery | Qual | |
| Perfluoro[13C4]Butanoic Acid (MPFBA) | 110 | | | | 50-200 |
| Perfluoro[13C5]Pentanoic Acid (M5PFPEA) | 119 | | | | 50-200 |
| Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS) | 115 | | | | 50-200 |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS) | 110 | | | | 50-200 |
| Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA) | 113 | | | | 50-200 |
| Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA) | 107 | | | | 50-200 |
| Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS) | 104 | | | | 50-200 |
| Perfluoro[13C8]Octanoic Acid (M8PFOA) | 109 | | | | 50-200 |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS) | 102 | | | | 50-200 |
| Perfluoro[13C9]Nonanoic Acid (M9PFNA) | 116 | | | | 50-200 |
| Perfluoro[13C8]Octanesulfonic Acid (M8PFOS) | 115 | | | | 50-200 |
| Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA) | 110 | | | | 50-200 |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS) | 103 | | | | 50-200 |
| Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA) | 128 | | | | 50-200 |
| Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA) | 122 | | | | 50-200 |
| 2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-13C3-Propanoic Acid (M3HFPO-DA) | 115 | | | | 50-200 |

Matrix Spike Analysis

Batch Quality Control

Project Name: RAW AND TREATED WELL WATER

Lab Number: L2428628

Project Number: 1531010

Report Date: 06/06/24

| Parameter | Native Sample | MS Added | MS Found | MS %Recovery | Qual | MSD Found | MSD %Recovery | Qual | Recovery Limits | RPD | Qual | RPD Limits |
|--|----------------------|-----------------|-----------------|---------------------|-------------|------------------|----------------------|-------------|------------------------|------------|-------------|-------------------|
| Perfluorinated Alkyl Acids by EPA 533 - Mansfield Lab Associated sample(s): 01-09 QC Batch ID: WG1929621-3 QC Sample: L2428628-01 Client ID: 1531010-008 (MVD-2) | | | | | | | | | | | | |
| Perfluorobutanoic Acid (PFBA) | 2.14 | 153 | 165 | 106 | | - | - | | 70-130 | - | | 30 |
| Perfluoro-3-Methoxypropanoic Acid (PFMPA) | ND | 153 | 167 | 109 | | - | - | | 70-130 | - | | 30 |
| Perfluoropentanoic Acid (PFPeA) | 2.40 | 153 | 163 | 105 | | - | - | | 70-130 | - | | 30 |
| Perfluorobutanesulfonic Acid (PFBS) | 1.88J | 136 | 145 | 107 | | - | - | | 70-130 | - | | 30 |
| Perfluoro-4-Methoxybutanoic Acid (PFMBA) | ND | 153 | 168 | 110 | | - | - | | 70-130 | - | | 30 |
| Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA) | ND | 136 | 146 | 107 | | - | - | | 70-130 | - | | 30 |
| Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA) | ND | 153 | 150 | 98 | | - | - | | 70-130 | - | | 30 |
| 1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS) | ND | 144 | 158 | 110 | | - | - | | 70-130 | - | | 30 |
| Perfluorohexanoic Acid (PFHxA) | 2.99 | 153 | 175 | 112 | | - | - | | 70-130 | - | | 30 |
| Perfluoropentanesulfonic Acid (PFPeS) | ND | 144 | 152 | 106 | | - | - | | 70-130 | - | | 30 |
| 2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid (HFPO-DA) | ND | 153 | 152 | 99 | | - | - | | 70-130 | - | | 30 |
| Perfluoroheptanoic Acid (PFHpA) | 2.62 | 153 | 177 | 114 | | - | - | | 70-130 | - | | 30 |
| Perfluorohexanesulfonic Acid (PFHxS) | 0.701J | 140 | 148 | 106 | | - | - | | 70-130 | - | | 30 |
| 4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA) | ND | 144 | 187 | 129 | | - | - | | 70-130 | - | | 30 |
| 1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS) | ND | 146 | 154 | 106 | | - | - | | 70-130 | - | | 30 |
| Perfluorooctanoic Acid (PFOA) | 15.7 | 153 | 183 | 109 | | - | - | | 70-130 | - | | 30 |
| Perfluoroheptanesulfonic Acid (PFHpS) | ND | 146 | 150 | 103 | | - | - | | 70-130 | - | | 30 |
| Perfluorononanoic Acid (PFNA) | ND | 153 | 154 | 101 | | - | - | | 70-130 | - | | 30 |
| Perfluorooctanesulfonic Acid (PFOS) | 1.66J | 142 | 145 | 102 | | - | - | | 70-130 | - | | 30 |
| 9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS) | ND | 143 | 146 | 102 | | - | - | | 70-130 | - | | 30 |
| 1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS) | ND | 147 | 165 | 112 | | - | - | | 70-130 | - | | 30 |

Matrix Spike Analysis

Batch Quality Control

Project Name: RAW AND TREATED WELL WATER
Project Number: 1531010

Lab Number: L2428628
Report Date: 06/06/24

| Parameter | Native Sample | MS Added | MS Found | MS %Recovery | Qual | MSD Found | MSD %Recovery | Qual | Recovery Limits | RPD | Qual | RPD Limits |
|---|----------------------|-----------------|-----------------|---------------------|-------------|------------------|----------------------|-------------|------------------------|------------|-------------|-------------------|
| Perfluorinated Alkyl Acids by EPA 533 - Mansfield Lab 008 (MVD-2) Associated sample(s): 01-09 QC Batch ID: WG1929621-3 QC Sample: L2428628-01 Client ID: 1531010- | | | | | | | | | | | | |
| Perfluorodecanoic Acid (PFDA) | ND | 153 | 163 | 106 | | - | - | | 70-130 | - | | 30 |
| Perfluoroundecanoic Acid (PFUnA) | ND | 153 | 163 | 106 | | - | - | | 70-130 | - | | 30 |
| 11-Chloroeicosafuoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS) | ND | 144 | 160 | 111 | | - | - | | 70-130 | - | | 30 |
| Perfluorododecanoic Acid (PFDoA) | ND | 153 | 163 | 106 | | - | - | | 70-130 | - | | 30 |

| Surrogate (Extracted Internal Standard) | MS % Recovery | MS Qualifier | MSD % Recovery | MSD Qualifier | Acceptance Criteria |
|--|----------------------|---------------------|-----------------------|----------------------|----------------------------|
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS) | 102 | | | | 50-200 |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS) | 125 | | | | 50-200 |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS) | 112 | | | | 50-200 |
| 2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-13C3-Propanoic Acid (M3HFPO-DA) | 108 | | | | 50-200 |
| Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA) | 104 | | | | 50-200 |
| Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA) | 88 | | | | 50-200 |
| Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA) | 104 | | | | 50-200 |
| Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA) | 92 | | | | 50-200 |
| Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS) | 103 | | | | 50-200 |
| Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA) | 102 | | | | 50-200 |
| Perfluoro[13C4]Butanoic Acid (MPFBA) | 107 | | | | 50-200 |
| Perfluoro[13C5]Pentanoic Acid (M5PFPEA) | 116 | | | | 50-200 |
| Perfluoro[13C8]Octanesulfonic Acid (M8PFOS) | 111 | | | | 50-200 |
| Perfluoro[13C8]Octanoic Acid (M8PFOA) | 86 | | | | 50-200 |
| Perfluoro[13C9]Nonanoic Acid (M9PFNA) | 90 | | | | 50-200 |
| Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS) | 104 | | | | 50-200 |

Lab Duplicate Analysis

Batch Quality Control

Project Name: RAW AND TREATED WELL WATER

Project Number: 1531010

Lab Number: L2428628

Report Date: 06/06/24

| Parameter | Native Sample | Duplicate Sample | Units | RPD | Qual | RPD Limits |
|--|---------------|------------------|-------|-----|------|------------|
| Perfluorinated Alkyl Acids by EPA 533 - Mansfield Lab Associated sample(s): 01-09 QC Batch ID: WG1929621-4 QC Sample: L2428628-02 Client ID: 1531010_012 (MVD 9) | | | | | | |
| Perfluorobutanoic Acid (PFBA) | ND | ND | ng/l | NC | | 30 |
| Perfluoro-3-Methoxypropanoic Acid (PFMPA) | ND | ND | ng/l | NC | | 30 |
| Perfluoropentanoic Acid (PFPeA) | ND | ND | ng/l | NC | | 30 |
| Perfluorobutanesulfonic Acid (PFBS) | ND | ND | ng/l | NC | | 30 |
| Perfluoro-4-Methoxybutanoic Acid (PFMBA) | ND | ND | ng/l | NC | | 30 |
| Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA) | ND | ND | ng/l | NC | | 30 |
| Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA) | ND | ND | ng/l | NC | | 30 |
| 1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS) | ND | ND | ng/l | NC | | 30 |
| Perfluorohexanoic Acid (PFHxA) | ND | ND | ng/l | NC | | 30 |
| Perfluoropentanesulfonic Acid (PFPeS) | ND | ND | ng/l | NC | | 30 |
| 2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid (HFPO-DA) | ND | ND | ng/l | NC | | 30 |
| Perfluoroheptanoic Acid (PFHpA) | ND | ND | ng/l | NC | | 30 |
| Perfluorohexanesulfonic Acid (PFHxS) | ND | ND | ng/l | NC | | 30 |
| 4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA) | ND | ND | ng/l | NC | | 30 |
| 1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS) | ND | ND | ng/l | NC | | 30 |
| Perfluorooctanoic Acid (PFOA) | 1.08J | 0.963J | ng/l | NC | | 30 |
| Perfluoroheptanesulfonic Acid (PFHpS) | ND | ND | ng/l | NC | | 30 |
| Perfluorononanoic Acid (PFNA) | ND | ND | ng/l | NC | | 30 |
| Perfluorooctanesulfonic Acid (PFOS) | 0.941J | 0.704J | ng/l | NC | | 30 |
| 9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS) | ND | ND | ng/l | NC | | 30 |

Lab Duplicate Analysis

Batch Quality Control

Project Name: RAW AND TREATED WELL WATER

Project Number: 1531010

Lab Number: L2428628

Report Date: 06/06/24

| Parameter | Native Sample | Duplicate Sample | Units | RPD | Qual | RPD Limits |
|--|---------------|------------------|-------|-----|------|------------|
| Perfluorinated Alkyl Acids by EPA 533 - Mansfield Lab Associated sample(s): 01-09 QC Batch ID: WG1929621-4 QC Sample: L2428628-02 Client ID: 1531010_012 (MVD 9) | | | | | | |
| 1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS) | ND | ND | ng/l | NC | | 30 |
| Perfluorodecanoic Acid (PFDA) | ND | ND | ng/l | NC | | 30 |
| Perfluoroundecanoic Acid (PFUnA) | ND | ND | ng/l | NC | | 30 |
| 11-Chloroeicosafuoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS) | ND | ND | ng/l | NC | | 30 |
| Perfluorododecanoic Acid (PFDoA) | ND | ND | ng/l | NC | | 30 |

| Surrogate (Extracted Internal Standard) | %Recovery | Qualifier | %Recovery | Qualifier | Acceptance Criteria |
|--|-----------|-----------|-----------|-----------|---------------------|
| Perfluoro[13C4]Butanoic Acid (MPFBA) | 112 | | 113 | | 50-200 |
| Perfluoro[13C5]Pentanoic Acid (M5PFPEA) | 118 | | 113 | | 50-200 |
| Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS) | 97 | | 100 | | 50-200 |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS) | 126 | | 131 | | 50-200 |
| Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA) | 114 | | 108 | | 50-200 |
| Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA) | 106 | | 104 | | 50-200 |
| Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS) | 101 | | 109 | | 50-200 |
| Perfluoro[13C8]Octanoic Acid (M8PFOA) | 105 | | 108 | | 50-200 |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS) | 103 | | 109 | | 50-200 |
| Perfluoro[13C9]Nonanoic Acid (M9PFNA) | 114 | | 110 | | 50-200 |
| Perfluoro[13C8]Octanesulfonic Acid (M8PFOS) | 112 | | 114 | | 50-200 |
| Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA) | 112 | | 103 | | 50-200 |
| 1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS) | 97 | | 97 | | 50-200 |
| Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA) | 127 | | 119 | | 50-200 |
| Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA) | 133 | | 127 | | 50-200 |
| 2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-13C3-Propanoic Acid (M3HFPO-DA) | 109 | | 109 | | 50-200 |

Project Name: RAW AND TREATED WELL WATER**Lab Number:** L2428628**Project Number:** 1531010**Report Date:** 06/06/24**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

Cooler Information

| | |
|---------------|---------------------|
| Cooler | Custody Seal |
| A | Absent |

Container Information

| Container ID | Container Type | Cooler | Initial pH | Final pH | Temp deg C | Pres | Seal | Frozen Date/Time | Analysis(*) |
|---------------------|--|---------------|-------------------|-----------------|-------------------|-------------|-------------|-------------------------|--------------------|
| L2428628-01A | Plastic 250ml Ammonium Acetate preserved | A | NA | | 3.8 | Y | Absent | | A2-NH-533(28) |
| L2428628-01B | Plastic 250ml Ammonium Acetate preserved | A | NA | | 3.8 | Y | Absent | | A2-NH-533(28) |
| L2428628-02A | Plastic 250ml Ammonium Acetate preserved | A | NA | | 3.8 | Y | Absent | | A2-NH-533(28) |
| L2428628-02B | Plastic 250ml Ammonium Acetate preserved | A | NA | | 3.8 | Y | Absent | | A2-NH-533(28) |
| L2428628-03A | Plastic 250ml Ammonium Acetate preserved | A | NA | | 3.8 | Y | Absent | | A2-NH-533(28) |
| L2428628-03B | Plastic 250ml Ammonium Acetate preserved | A | NA | | 3.8 | Y | Absent | | A2-NH-533(28) |
| L2428628-04A | Plastic 250ml Ammonium Acetate preserved | A | NA | | 3.8 | Y | Absent | | A2-NH-533(28) |
| L2428628-04B | Plastic 250ml Ammonium Acetate preserved | A | NA | | 3.8 | Y | Absent | | A2-NH-533(28) |
| L2428628-05A | Plastic 250ml Ammonium Acetate preserved | A | NA | | 3.8 | Y | Absent | | A2-NH-533(28) |
| L2428628-05B | Plastic 250ml Ammonium Acetate preserved | A | NA | | 3.8 | Y | Absent | | A2-NH-533(28) |
| L2428628-06A | Plastic 250ml Ammonium Acetate preserved | A | NA | | 3.8 | Y | Absent | | A2-NH-533(28) |
| L2428628-06B | Plastic 250ml Ammonium Acetate preserved | A | NA | | 3.8 | Y | Absent | | A2-NH-533(28) |
| L2428628-07A | Plastic 250ml Ammonium Acetate preserved | A | NA | | 3.8 | Y | Absent | | A2-NH-533(28) |
| L2428628-07B | Plastic 250ml Ammonium Acetate preserved | A | NA | | 3.8 | Y | Absent | | A2-NH-533(28) |
| L2428628-08A | Plastic 250ml Ammonium Acetate preserved | A | NA | | 3.8 | Y | Absent | | A2-NH-533(28) |
| L2428628-08B | Plastic 250ml Ammonium Acetate preserved | A | NA | | 3.8 | Y | Absent | | A2-NH-533(28) |
| L2428628-09A | Plastic 250ml Ammonium Acetate preserved | A | NA | | 3.8 | Y | Absent | | A2-NH-533(28) |
| L2428628-09B | Plastic 250ml Ammonium Acetate preserved | A | NA | | 3.8 | Y | Absent | | A2-NH-533(28) |

Project Name: RAW AND TREATED WELL WATER
Project Number: 1531010

Serial_No:06062417:17
Lab Number: L2428628
Report Date: 06/06/24

PFAS PARAMETER SUMMARY

| Parameter | Acronym | CAS Number |
|---|--------------|-------------|
| PERFLUOROALKYL CARBOXYLIC ACIDS (PFCAs) | | |
| Perfluorooctadecanoic Acid | PFODA | 16517-11-6 |
| Perfluorohexadecanoic Acid | PFHxDA | 67905-19-5 |
| Perfluorotetradecanoic Acid | PFTA/PFTeDA | 376-06-7 |
| Perfluorotridecanoic Acid | PFTrDA | 72629-94-8 |
| Perfluorododecanoic Acid | PFDoA | 307-55-1 |
| Perfluoroundecanoic Acid | PFUnA | 2058-94-8 |
| Perfluorodecanoic Acid | PFDA | 335-76-2 |
| Perfluorononanoic Acid | PFNA | 375-95-1 |
| Perfluorooctanoic Acid | PFOA | 335-67-1 |
| Perfluoroheptanoic Acid | PFHpA | 375-85-9 |
| Perfluorohexanoic Acid | PFHxA | 307-24-4 |
| Perfluoropentanoic Acid | PFPeA | 2706-90-3 |
| Perfluorobutanoic Acid | PFBA | 375-22-4 |
| PERFLUOROALKYL SULFONIC ACIDS (PFSAs) | | |
| Perfluorododecanesulfonic Acid | PFDoDS/PFDoS | 79780-39-5 |
| Perfluorodecanesulfonic Acid | PFDS | 335-77-3 |
| Perfluorononanesulfonic Acid | PFNS | 68259-12-1 |
| Perfluorooctanesulfonic Acid | PFOS | 1763-23-1 |
| Perfluoroheptanesulfonic Acid | PFHpS | 375-92-8 |
| Perfluorohexanesulfonic Acid | PFHxS | 355-46-4 |
| Perfluoropentanesulfonic Acid | PFPeS | 2706-91-4 |
| Perfluorobutanesulfonic Acid | PFBS | 375-73-5 |
| Perfluoropropanesulfonic Acid | PFPrS | 423-41-6 |
| FLUOROTELOMERS | | |
| 1H,1H,2H,2H-Perfluorododecanesulfonic Acid | 10:2FTS | 120226-60-0 |
| 1H,1H,2H,2H-Perfluorodecanesulfonic Acid | 8:2FTS | 39108-34-4 |
| 1H,1H,2H,2H-Perfluorooctanesulfonic Acid | 6:2FTS | 27619-97-2 |
| 1H,1H,2H,2H-Perfluorohexanesulfonic Acid | 4:2FTS | 757124-72-4 |
| PERFLUOROALKANE SULFONAMIDES (FASAs) | | |
| Perfluorooctanesulfonamide | FOSA/PFOSA | 754-91-6 |
| N-Ethyl Perfluorooctane Sulfonamide | NEtFOSA | 4151-50-2 |
| N-Methyl Perfluorooctane Sulfonamide | NMeFOSA | 31506-32-8 |
| PERFLUOROALKANE SULFONYL SUBSTANCES | | |
| N-Ethyl Perfluorooctanesulfonamido Ethanol | NEtFOSE | 1691-99-2 |
| N-Methyl Perfluorooctanesulfonamido Ethanol | NMeFOSE | 24448-09-7 |
| N-Ethyl Perfluorooctanesulfonamidoacetic Acid | NEtFOSAA | 2991-50-6 |
| N-Methyl Perfluorooctanesulfonamidoacetic Acid | NMeFOSAA | 2355-31-9 |
| PER- and POLYFLUOROALKYL ETHER CARBOXYLIC ACIDS | | |
| 2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid | HFPO-DA | 13252-13-6 |
| 4,8-Dioxa-3h-Perfluorononanoic Acid | ADONA | 919005-14-4 |
| CHLORO-PERFLUOROALKYL SULFONIC ACIDS | | |
| 11-Chloroeicosafuoro-3-Oxaundecane-1-Sulfonic Acid | 11Cl-PF3OUdS | 763051-92-9 |
| 9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid | 9Cl-PF3ONS | 756426-58-1 |
| PERFLUOROETHER SULFONIC ACIDS (PFESAs) | | |
| Perfluoro(2-Ethoxyethane)Sulfonic Acid | PFEEASA | 113507-82-7 |
| PERFLUOROETHER/POLYETHER CARBOXYLIC ACIDS (PFPCAs) | | |
| Perfluoro-3-Methoxypropanoic Acid | PFMPA | 377-73-1 |
| Perfluoro-4-Methoxybutanoic Acid | PFMBA | 863090-89-5 |
| Nonafluoro-3,6-Dioxaheptanoic Acid | NFDHA | 151772-58-6 |

Project Name: RAW AND TREATED WELL WATER
Project Number: 1531010

Serial_No:06062417:17
Lab Number: L2428628
Report Date: 06/06/24

PFAS PARAMETER SUMMARY

| Parameter | Acronym | CAS Number |
|--|---------|-------------|
| FLUOROTELOMER CARBOXYLIC ACIDS (FTCAs) | | |
| 3-Perfluoroheptyl Propanoic Acid | 7:3FTCA | 812-70-4 |
| 2H,2H,3H,3H-Perfluorooctanoic Acid | 5:3FTCA | 914637-49-3 |
| 3-Perfluoropropyl Propanoic Acid | 3:3FTCA | 356-02-5 |

Project Name: RAW AND TREATED WELL WATER
Project Number: 1531010

Lab Number: L2428628
Report Date: 06/06/24

GLOSSARY

Acronyms

| | |
|----------|--|
| DL | - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) |
| EDL | - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME). |
| EMPC | - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration. |
| EPA | - Environmental Protection Agency. |
| LCS | - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes. |
| LCSD | - Laboratory Control Sample Duplicate: Refer to LCS. |
| LFB | - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes. |
| LOD | - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) |
| LOQ | - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) |
| MDL | - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. |
| MS | - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values. |
| MSD | - Matrix Spike Sample Duplicate: Refer to MS. |
| NA | - Not Applicable. |
| NC | - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit. |
| NDPA/DPA | - N-Nitrosodiphenylamine/Diphenylamine. |
| NI | - Not Ignitable. |
| NP | - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil. |
| NR | - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests. |
| RL | - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable. |
| RPD | - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report. |
| SRM | - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples. |
| STLP | - Semi-dynamic Tank Leaching Procedure per EPA Method 1315. |
| TEF | - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD. |
| TEQ | - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values. |
| TIC | - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations. |

Report Format: DU Report with 'J' Qualifiers



Project Name: RAW AND TREATED WELL WATER
Project Number: 1531010

Lab Number: L2428628
Report Date: 06/06/24

Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA, this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

Report Format: DU Report with 'J' Qualifiers



Project Name: RAW AND TREATED WELL WATER
Project Number: 1531010

Lab Number: L2428628
Report Date: 06/06/24

Data Qualifiers

Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were estimated.

- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- V** - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
- Z** - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name: RAW AND TREATED WELL WATER
Project Number: 1531010

Lab Number: L2428628
Report Date: 06/06/24

REFERENCES

- 136 Determination of Per- and Polyfluoroalkyl Substances in Drinking Water by Isotope Dilution Anion Exchange Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS). EPA Method 533, EPA Document 815-B-19-020, November 2019.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility

EPA 624.1: m/p-xylene, o-xylene, Naphthalene

EPA 625.1: alpha-Terpineol

EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility

SM 2540D: TSS.

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

Nonpotable Water: EPA RSK-175 Dissolved Gases

Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,**

EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B

EPA 524.2: THMs and VOCs; **EPA 504.1:** EDB, DBCP.

Microbiology: SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1:**

Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E,**

SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.

EPA 624.1: Volatile Halocarbons & Aromatics,

EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II,

Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625.1: SVOC (Acid/Base/Neutral Extractables).

Microbiology: SM9223B-Colilert-QT; Enterolert-QT, EPA 1600, EPA 1603, SM9222D.

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.

EPA 522, EPA 537.1.

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

EPA 245.1 Hg.

SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.



CHAIN OF CUSTODY

PAGE 1 OF 1

Westborough, MA Mansfield, MA
 TEL: 508-898-9220 TEL: 508-822-9300
 FAX: 508-898-9193 FAX: 508-822-3288

Project Information

Project Name: Raw and Treated Well Water

Project Location: Wells and treatment plants

Project #:

Project Manager: Jill Lavoie

ALPHA Quote #:

Turn-Around Time

Standard Rush (ONLY IF PRE-APPROVED)

Due Date: Time:

Client Information

Client: Merrimack Village District

Address: 2 Greens Pond Road

Merrimack NH 03054

Phone: (603) 424-9241 x103

Fax: Email: jill.lavoie@mvdwater.org

These samples have been Previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

Sampler: Ronald Miner, Jr.

EPA ID 1531010

Date Rec'd in Lab: 5/23/24 ALPHA Job #: L2428628

Report Information Data Deliverables Billing Information

FAX EMAIL Same as Client info PO #:
 ADEx Add'l Deliverables

Regulatory Requirements/Report Limits

State/Fed Program Criteria

ANALYSIS

| ALPHA Lab ID (Lab Use Only) | Sample ID | Collection | | Sample Matrix | Sampler's Initials | PFAS METHOD 533 | ANALYSIS | | | | | | | | | | | | SAMPLE HANDLING Filtration <input type="checkbox"/> Done <input type="checkbox"/> Not Needed <input type="checkbox"/> Lab to do Preservation <input type="checkbox"/> Lab to do (Please specify below) | TOTAL # BOTTLES |
|--------------------------------|-----------------------|------------|-------|---------------|--------------------|-----------------|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|---|-----------------|
| | | Date | Time | | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | | |
| 28628-01 | 1531010-008 (MVD-2) | 5/22/24 | 11:20 | | RM | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 28628-02 | 1531010_012 (MVD 9) | 5/22/24 | 11:21 | | RM | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 28628-03 | 1531010-512 (TP- 2/9) | 5/22/24 | 11:25 | | RM | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 28628-04 | 1531010-011 (MVD-4R) | 5/22/24 | 10:55 | | RM | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 28628-05 | 1531010_005 (MVD-5) | 5/22/24 | 10:57 | | RM | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 28628-06 | 1531010_509 (TP-4/5) | 5/22/24 | 10:50 | | RM | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 28628-07 | 1531010_007 (MVD-7) | 5/22/24 | 10:15 | | RM | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 28628-08 | 1531010_009 (MVD-8) | 5/22/24 | 10:20 | | RM | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 28628-09 | 1531010_510 (TP-7/8) | 5/22/24 | 10:25 | | RM | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |

| | | | | | | | | | | | | | | | | | | | | |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Container Type | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Preservative | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

| | | | |
|--------------------------|---------------|-----------------------|---------------|
| Relinquished By: | Date/Time | Received By: | Date/Time |
| <i>Ronald Miner, Jr.</i> | 5/22/24 1148 | <i>Olivia Dao</i> | 5/23/24 10:50 |
| <i>Alvin Dao</i> | 5/23/24 11:55 | <i>Kush</i> | 5/23/24 1635 |
| <i>Henry</i> | 5/23/24 1930 | <i>St. Mendez AAL</i> | 5/23/24 1930 |
| <i>St. Mendez AAL</i> | 5/23/24 2100 | <i>Prud</i> | 5/23/24 21:00 |

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms.

FORM NO. 01-013-10J
(rev. 9-JAN-12)