

**DATA USABILITY SUMMARY REPORT  
5 SCOBIE DRIVE, NEWBURGH, NEW YORK**

Client: C.T. Male Associates, Latham, New York  
SDG: L2043931  
Laboratory: Alpha Analytical, Westborough, Massachusetts  
Site: 5 Scobie Drive, Newburgh, New York  
Date: January 19, 2024

| EDS ID | Client ID          | Laboratory ID  | Matrix |
|--------|--------------------|----------------|--------|
| 1      | CTM-MW-5_201013    | L2043931-01    | Water  |
| 1MS    | CTM-MW-5_201013MS  | L2043931-01MS  | Water  |
| 1MSD   | CTM-MW-5_201013MSD | L2043931-01MSD | Water  |
| 2      | MW-6_201013        | L2043931-02    | Water  |
| 3      | CTM-MW-4_201013    | L2043931-03    | Water  |
| 4      | CTM-MW-3_201013    | L2043931-04    | Water  |
| 5      | MW-5_201013        | L2043931-05    | Water  |
| 6      | GWFD01_201013      | L2043931-06    | Water  |
| 7      | GWEB01_201013      | L2043931-07    | Water  |
| 8      | GWFB01_201013      | L2043931-08    | Water  |
| 9      | GWLTB01_201013     | L2043931-09    | Water  |

A Data Usability Summary Review was performed on the analytical data for six water samples, one aqueous equipment blank sample, one aqueous field blank sample, and one aqueous trip blank sample collected on October 13, 2020 by CT Male at the 5 Scobie Drive site in Newburgh, New York. The samples were analyzed under the USEPA Method Determination of Selected Per- and Polyfluorinated Alkyl Substances in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS).

Specific method references are as follows:

Analysis  
PFAS

Method References  
USEPA Method 537

The data have been validated according to the protocols and quality control (QC) requirements of the analytical methods, the NYSDEC Data Review and Validation Guidelines as follows:

- New York State Department of Environmental Conservation (NYSDEC) Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances (PFAS), April 2023;
- and the reviewer's professional judgment.

The following items/criteria were reviewed for this report:

## ***PFAS***

- Holding times and sample preservation
- Liquid Chromatography/Mass Spectrometry (LC/MS) Tuning
- Initial and continuing calibration summaries
- Method blank and field blank contamination
- Surrogate Spike recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) recoveries
- Laboratory Control Sample (LCS) recoveries
- Internal standard area and retention time summary forms
- Target Compound Identification
- Compound Quantitation
- Field Duplicate sample precision

### **Data Usability Assessment**

There were no rejections of data.

The data are acceptable for the intended purposes as qualified for the deficiencies detailed in this report.

Please note that any results qualified (U) due to blank contamination may be then qualified (J) due to another action. Therefore, the results may be qualified (UJ) due to the culmination of the blank contaminations and actions from other exceedances of QC criteria.

### **Data Completeness**

- The data is a complete Category B data package as defined under the requirements for the NYS Department of Environmental Conservation Analytical Services Protocol.

## **Perfluorinated Alkyl Substances (PFAS)**

### **Holding Times**

- All samples were extracted within 14 days for water samples and analyzed within 28 days.

### **LC/MS Tuning**

- All criteria were met.

### Initial Calibration

- All relative standard deviation (%RSD), %R and/or coefficient of determination criteria were met.

### Continuing Calibration

- All percent recovery (%R) criteria were met.

### Method Blank

- The following table lists method blanks with contamination and the samples associated with the blanks that had results qualified as a consequence of the blank contamination. Detected sample concentrations less than ten times (10x) the highest associated blank (after taking sample dilution levels, percent moisture and sample volume into account) are negated and qualified with a (U).

| Blank ID    | Compound | Conc.<br>ng/L | Qualifier | Affected Samples |
|-------------|----------|---------------|-----------|------------------|
| WG1424986-1 | PFHxA    | 0.376         | U         | 7-9              |

### Field QC Blank

- The field QC samples are summarized below.

| Blank ID       | Compound  | Conc.<br>ng/L | Qualifier | Affected Samples |
|----------------|-----------|---------------|-----------|------------------|
| GWEB01_201013  | None - ND | -             | -         | -                |
| GWFB01_201013  | None - ND | -             | -         | -                |
| GWLTB01_201013 | None - ND | -             | -         | -                |

### Surrogate Spike Recoveries

- The following table presents samples that exhibited surrogate percent recoveries (%R) outside the QC limits. A low %R may indicate a potential low bias while a high %R may indicate a potential high bias. For a low %R, positive results are considered estimated and qualified (J) while non-detects are estimated and qualified (UJ). For a high %R, positive results are considered estimated and qualified (J).

| EDS Sample ID | Surrogate | %R   | Qualifier        |
|---------------|-----------|------|------------------|
| 2             | M2-8:2FTS | 180% | None - Sample ND |
| 3             | M2-8:2FTS | 181% | None - Sample ND |

### **Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries**

- The following table presents MS/MSD samples that exhibited percent recoveries (%R) outside the QC limits and/or relative percent differences (RPD) above QC limits. A low %R may indicate a potential low bias while a high %R may indicate a potential high bias. For a low %R, positive results are considered estimated and qualified (J) while non-detects are estimated and qualified (UJ). For a high %R, positive results are considered estimated and qualified (J). Results are valid and usable, however possibly biased.

| Sample ID | Compound | MS %R/MSD %R/RPD | Qualifier          |
|-----------|----------|------------------|--------------------|
| 1         | NMeFOSAA | OK/OK/37         | None for RPD alone |

### **Laboratory Control Samples**

- The LCS samples exhibited acceptable percent recoveries (%R).

### **Internal Standard (IS) Area Performance**

- The following table presents samples that exceeded the -25%/+150% area criteria for internal standard areas. Non-detected results for the associated compounds are considered estimated and qualified (UJ). Positive results for the associated compounds are considered estimated and qualified (J). Non-detected compounds that exceed the lower limit by -10% area criteria are considered rejected (R) and unusable for project objectives.

| Sample ID | Internal Standard | Area Count | Qualifier               |
|-----------|-------------------|------------|-------------------------|
| 2         | M3PFBA            | Low        | J - Associated Compound |
| 4         | M3PFBA            | Low        | J - Associated Compound |

### **Target Compound Identification**

- All mass spectra and quantitation criteria were met.

### **Compound Quantitation**

- Samples 3 and 6 were analyzed at a 5X dilution due to high concentrations of target compounds. The reporting limits were adjusted accordingly. No action was required.
- The ion ratio was outside of QC limits for several compounds and flagged (F) by the laboratory. These results were qualified estimated (J) unless already qualified.

### **Field Duplicate Sample Precision**

- Field duplicate samples are summarized below. The precision was acceptable.

| Compound         | CTM-MW-4_201013<br>ng/L | GWFD01_201013<br>ng/L | RPD | Qualifier     |
|------------------|-------------------------|-----------------------|-----|---------------|
| PFBA             | 21.2                    | 22.4                  | 6%  | None          |
| PFPeA            | 21.8                    | 19.6                  | 11% |               |
| PFBS             | 9.25                    | 11.4                  | 21% |               |
| PFHxA            | 15.8                    | 15.9                  | 1%  |               |
| PFHpA            | 12.3                    | 13.4                  | 9%  |               |
| PFHxS            | 44.4                    | 50.3                  | 12% |               |
| PFOA             | 100                     | 104                   | 4%  |               |
| PFHpS            | 3.30                    | 4.63                  | 34% | None - <5X RL |
| PFOS             | 102                     | 125                   | 20% | None          |
| NEtFOSAA         | 29.8                    | 38.2                  | 25% |               |
| PFOA/PFOS, total | 202                     | 229                   | 13% |               |

Please contact the undersigned at (561) 475-2000 if you have any questions or need further information.

Signed: Nancy Weaver  
Nancy Weaver  
Senior Chemist

Dated: 1/22/24

| <b>Data Qualifier</b> | <b>Definition</b>                                                                                                                                                |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| U                     | The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.                                                    |
| J                     | The analyte is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.                              |
| J+                    | The result is an estimated quantity, but the result may be biased high.                                                                                          |
| J-                    | The result is an estimated quantity, but the result may be biased low.                                                                                           |
| NJ                    | The analysis has been "tentatively identified" or "presumptively" as present and the associated numerical value is the estimated concentration in the samples.   |
| UJ                    | The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.                            |
| R                     | The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the samples. |



# Results Summary

## Form 1

### Perfluorinated Alkyl Acids by Isotope Dilution

Client : C.T. Male Associates  
 Project Name : 5 SCOBIE DR  
 Lab ID : L2043931-01  
 Client ID : CTM-MW-5\_201013  
 Sample Location : NEWBURGH, NY  
 Sample Matrix : WATER  
 Analytical Method : 134,LCMSMS-ID  
 Lab File ID : I30963  
 Sample Amount : 285.31 g  
 Extraction Method : ALPHA 23528  
 Extract Volume : 1000 uL  
 GPC Cleanup : N

Lab Number : L2043931  
 Project Number : 19.9405  
 Date Collected : 10/13/20 11:15  
 Date Received : 10/13/20  
 Date Analyzed : 10/23/20 22:42  
 Date Extracted : 10/22/20  
 Dilution Factor : 1  
 Analyst : JW  
 Instrument ID : LCMS02  
 GC Column : Acquity UPLC BEH C18  
 %Solids : N/A  
 Injection Volume : 3 uL

| CAS NO.    | Parameter                                                     | ng/l    |      |       | Qualifier |
|------------|---------------------------------------------------------------|---------|------|-------|-----------|
|            |                                                               | Results | RL   | MDL   |           |
| 375-22-4   | Perfluorobutanoic Acid (PFBA)                                 | 6.86    | 1.75 | 0.358 |           |
| 2706-90-3  | Perfluoropentanoic Acid (PFPeA)                               | 5.82    | 1.75 | 0.347 |           |
| 375-73-5   | Perfluorobutanesulfonic Acid (PFBS)                           | 3.90    | 1.75 | 0.208 |           |
| 307-24-4   | Perfluorohexanoic Acid (PFHxA)                                | 5.77    | 1.75 | 0.287 |           |
| 375-85-9   | Perfluoroheptanoic Acid (PFHpA)                               | 4.05    | 1.75 | 0.197 |           |
| 355-46-4   | Perfluorohexanesulfonic Acid (PFHxS)                          | 8.80    | 1.75 | 0.329 |           |
| 335-67-1   | Perfluorooctanoic Acid (PFOA)                                 | 21.8    | 1.75 | 0.207 |           |
| 27619-97-2 | 1H,1H,2H,2H-Perfluorooctanesulfonic Acid<br>(6:2FTS)          | ND      | 1.75 | 1.17  | U         |
| 375-92-8   | Perfluoroheptanesulfonic Acid (PFHpS)                         | 0.852   | 1.75 | 0.603 | J         |
| 375-95-1   | Perfluorononanoic Acid (PFNA)                                 | 1.03    | 1.75 | 0.273 | J         |
| 1763-23-1  | Perfluorooctanesulfonic Acid (PFOS)                           | 30.2    | 1.75 | 0.442 |           |
| 335-76-2   | Perfluorodecanoic Acid (PFDA)                                 | ND      | 1.75 | 0.266 | U         |
| 39108-34-4 | 1H,1H,2H,2H-Perfluorodecanesulfonic Acid<br>(8:2FTS)          | ND      | 1.75 | 1.06  | U         |
| 2355-31-9  | N-Methyl Perfluorooctanesulfonamidoaceti<br>c Acid (NMeFOSAA) | ND      | 1.75 | 0.568 | U         |
| 2058-94-8  | Perfluoroundecanoic Acid (PFUnA)                              | ND      | 1.75 | 0.228 | U         |
| 335-77-3   | Perfluorodecanesulfonic Acid (PFDS)                           | ND      | 1.75 | 0.859 | U         |
| 754-91-6   | Perfluorooctanesulfonamide (FOSA)                             | ND      | 1.75 | 0.508 | U         |
| 2991-50-6  | N-Ethyl Perfluorooctanesulfonamidoacetic<br>Acid (NEtFOSAA)   | ND      | 1.75 | 0.704 | U         |



**Results Summary**  
**Form 1**  
**Perfluorinated Alkyl Acids by Isotope Dilution**

Client : C.T. Male Associates  
 Project Name : 5 SCOBIE DR  
 Lab ID : L2043931-01  
 Client ID : CTM-MW-5\_201013  
 Sample Location : NEWBURGH, NY  
 Sample Matrix : WATER  
 Analytical Method : 134,LCMSMS-ID  
 Lab File ID : I30963  
 Sample Amount : 285.31 g  
 Extraction Method : ALPHA 23528  
 Extract Volume : 1000 uL  
 GPC Cleanup : N

Lab Number : L2043931  
 Project Number : 19.9405  
 Date Collected : 10/13/20 11:15  
 Date Received : 10/13/20  
 Date Analyzed : 10/23/20 22:42  
 Date Extracted : 10/22/20  
 Dilution Factor : 1  
 Analyst : JW  
 Instrument ID : LCMS02  
 GC Column : Acquity UPLC BEH C18  
 %Solids : N/A  
 Injection Volume : 3 uL

| CAS NO.    | Parameter                          | ng/l    |      |       | Qualifier |
|------------|------------------------------------|---------|------|-------|-----------|
|            |                                    | Results | RL   | MDL   |           |
| 307-55-1   | Perfluorododecanoic Acid (PFDoA)   | ND      | 1.75 | 0.326 | U         |
| 72629-94-8 | Perfluorotridecanoic Acid (PFTrDA) | ND      | 1.75 | 0.287 | U         |
| 376-06-7   | Perfluorotetradecanoic Acid (PFTA) | ND      | 1.75 | 0.217 | U         |
| NONE       | PFOA/PFOS, Total                   | 52.0    | 1.75 | 0.207 |           |

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## Results Summary

### Form 1

### Perfluorinated Alkyl Acids by Isotope Dilution

Client : C.T. Male Associates  
 Project Name : 5 SCOBIE DR  
 Lab ID : L2043931-02  
 Client ID : MW-6\_201013  
 Sample Location : NEWBURGH, NY  
 Sample Matrix : WATER  
 Analytical Method : 134,LCMSMS-ID  
 Lab File ID : I30966  
 Sample Amount : 267.79 g  
 Extraction Method : ALPHA 23528  
 Extract Volume : 1000 uL  
 GPC Cleanup : N

Lab Number : L2043931  
 Project Number : 19.9405  
 Date Collected : 10/13/20 11:50  
 Date Received : 10/13/20  
 Date Analyzed : 10/23/20 23:32  
 Date Extracted : 10/22/20  
 Dilution Factor : 1  
 Analyst : JW  
 Instrument ID : LCMS02  
 GC Column : Acquity UPLC BEH C18  
 %Solids : N/A  
 Injection Volume : 3 uL

| CAS NO.    | Parameter                                                 | ng/l    |      |       | Qualifier |
|------------|-----------------------------------------------------------|---------|------|-------|-----------|
|            |                                                           | Results | RL   | MDL   |           |
| 375-22-4   | Perfluorobutanoic Acid (PFBA)                             | 5.88    | 1.87 | 0.381 | J         |
| 2706-90-3  | Perfluoropentanoic Acid (PFPeA)                           | 7.34    | 1.87 | 0.370 |           |
| 375-73-5   | Perfluorobutanesulfonic Acid (PFBS)                       | 6.06    | 1.87 | 0.222 |           |
| 307-24-4   | Perfluorohexanoic Acid (PFHxA)                            | 8.72    | 1.87 | 0.306 |           |
| 375-85-9   | Perfluoroheptanoic Acid (PFHpA)                           | 8.79    | 1.87 | 0.210 |           |
| 355-46-4   | Perfluorohexanesulfonic Acid (PFHxS)                      | 17.4    | 1.87 | 0.351 |           |
| 335-67-1   | Perfluorooctanoic Acid (PFOA)                             | 75.5    | 1.87 | 0.220 |           |
| 27619-97-2 | 1H,1H,2H,2H-Perfluorooctanesulfonic Acid<br>(6:2FTS)      | ND      | 1.87 | 1.24  | U         |
| 375-92-8   | Perfluoroheptanesulfonic Acid (PFHpS)                     | 2.00    | 1.87 | 0.642 |           |
| 375-95-1   | Perfluorononanoic Acid (PFNA)                             | ND      | 1.87 | 0.291 | U         |
| 1763-23-1  | Perfluorooctanesulfonic Acid (PFOS)                       | 61.5    | 1.87 | 0.470 |           |
| 335-76-2   | Perfluorodecanoic Acid (PFDA)                             | ND      | 1.87 | 0.284 | U         |
| 39108-34-4 | 1H,1H,2H,2H-Perfluorodecanesulfonic Acid<br>(8:2FTS)      | ND      | 1.87 | 1.13  | U         |
| 2355-31-9  | N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA) | ND      | 1.87 | 0.605 | U         |
| 2058-94-8  | Perfluoroundecanoic Acid (PFUnA)                          | ND      | 1.87 | 0.243 | U         |
| 335-77-3   | Perfluorodecanesulfonic Acid (PFDS)                       | ND      | 1.87 | 0.915 | U         |
| 754-91-6   | Perfluorooctanesulfonamide (FOSA)                         | ND      | 1.87 | 0.541 | U         |
| 2991-50-6  | N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)  | 8.58    | 1.87 | 0.750 | J         |

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**Results Summary**  
**Form 1**  
**Perfluorinated Alkyl Acids by Isotope Dilution**

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| <b>Client</b> : C.T. Male Associates<br><b>Project Name</b> : 5 SCOBIE DR<br><b>Lab ID</b> : L2043931-02<br><b>Client ID</b> : MW-6_201013<br><b>Sample Location</b> : NEWBURGH, NY<br><b>Sample Matrix</b> : WATER<br><b>Analytical Method</b> : 134,LCMSMS-ID<br><b>Lab File ID</b> : I30966<br><b>Sample Amount</b> : 267.79 g<br><b>Extraction Method</b> : ALPHA 23528<br><b>Extract Volume</b> : 1000 uL<br><b>GPC Cleanup</b> : N | <b>Lab Number</b> : L2043931<br><b>Project Number</b> : 19.9405<br><b>Date Collected</b> : 10/13/20 11:50<br><b>Date Received</b> : 10/13/20<br><b>Date Analyzed</b> : 10/23/20 23:32<br><b>Date Extracted</b> : 10/22/20<br><b>Dilution Factor</b> : 1<br><b>Analyst</b> : JW<br><b>Instrument ID</b> : LCMS02<br><b>GC Column</b> : Acquity UPLC BEH C18<br><b>%Solids</b> : N/A<br><b>Injection Volume</b> : 3 uL |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

| CAS NO.    | Parameter                           | ng/l    |      |       | Qualifier |
|------------|-------------------------------------|---------|------|-------|-----------|
|            |                                     | Results | RL   | MDL   |           |
| 307-55-1   | Perfluorododecanoic Acid (PFDoA)    | ND      | 1.87 | 0.347 | U         |
| 72629-94-8 | Perfluorotridecanoic Acid (PFTTrDA) | ND      | 1.87 | 0.305 | U         |
| 376-06-7   | Perfluorotetradecanoic Acid (PFTA)  | ND      | 1.87 | 0.232 | U         |
| NONE       | PFOA/PFOS, Total                    | 137     | 1.87 | 0.220 |           |

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# Results Summary

## Form 1

### Perfluorinated Alkyl Acids by Isotope Dilution

Client : C.T. Male Associates  
 Project Name : 5 SCOBIE DR  
 Lab ID : L2043931-03D  
 Client ID : CTM-MW-4\_201013  
 Sample Location : NEWBURGH, NY  
 Sample Matrix : WATER  
 Analytical Method : 134,LCMSMS-ID  
 Lab File ID : I31066  
 Sample Amount : 262.13 g  
 Extraction Method : ALPHA 23528  
 Extract Volume : 1000 uL  
 GPC Cleanup : N

Lab Number : L2043931  
 Project Number : 19.9405  
 Date Collected : 10/13/20 12:35  
 Date Received : 10/13/20  
 Date Analyzed : 10/25/20 12:15  
 Date Extracted : 10/22/20  
 Dilution Factor : 5  
 Analyst : SG  
 Instrument ID : LCMS02  
 GC Column : Acquity UPLC BEH C18  
 %Solids : N/A  
 Injection Volume : 3 uL

| CAS NO.    | Parameter                                                 | ng/l    |      |      | Qualifier      |
|------------|-----------------------------------------------------------|---------|------|------|----------------|
|            |                                                           | Results | RL   | MDL  |                |
| 375-22-4   | Perfluorobutanoic Acid (PFBA)                             | 21.2    | 9.54 | 1.94 |                |
| 2706-90-3  | Perfluoropentanoic Acid (PFPeA)                           | 21.8    | 9.54 | 1.89 |                |
| 375-73-5   | Perfluorobutanesulfonic Acid (PFBS)                       | 9.25    | 9.54 | 1.13 | J              |
| 307-24-4   | Perfluorohexanoic Acid (PFHxA)                            | 15.8    | 9.54 | 1.56 |                |
| 375-85-9   | Perfluoroheptanoic Acid (PFHpA)                           | 12.3    | 9.54 | 1.07 |                |
| 355-46-4   | Perfluorohexanesulfonic Acid (PFHxS)                      | 44.4    | 9.54 | 1.79 | <del>F</del> J |
| 335-67-1   | Perfluorooctanoic Acid (PFOA)                             | 100     | 9.54 | 1.12 |                |
| 27619-97-2 | 1H,1H,2H,2H-Perfluorooctanesulfonic Acid<br>(6:2FTS)      | ND      | 9.54 | 6.35 | U              |
| 375-92-8   | Perfluoroheptanesulfonic Acid (PFHpS)                     | 3.30    | 9.54 | 3.28 | J              |
| 375-95-1   | Perfluorononanoic Acid (PFNA)                             | ND      | 9.54 | 1.49 | U              |
| 1763-23-1  | Perfluorooctanesulfonic Acid (PFOS)                       | 102     | 9.54 | 2.40 |                |
| 335-76-2   | Perfluorodecanoic Acid (PFDA)                             | ND      | 9.54 | 1.45 | U              |
| 39108-34-4 | 1H,1H,2H,2H-Perfluorodecanesulfonic Acid<br>(8:2FTS)      | ND      | 9.54 | 5.78 | U              |
| 2355-31-9  | N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA) | ND      | 9.54 | 3.09 | U              |
| 2058-94-8  | Perfluoroundecanoic Acid (PFUnA)                          | ND      | 9.54 | 1.24 | U              |
| 335-77-3   | Perfluorodecanesulfonic Acid (PFDS)                       | ND      | 9.54 | 4.67 | U              |
| 754-91-6   | Perfluorooctanesulfonamide (FOSA)                         | ND      | 9.54 | 2.76 | U              |
| 2991-50-6  | N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)  | 29.8    | 9.54 | 3.83 | <del>F</del> J |

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# Results Summary

## Form 1

### Perfluorinated Alkyl Acids by Isotope Dilution

|                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Client</b> : C.T. Male Associates<br><b>Project Name</b> : 5 SCOBIE DR<br><b>Lab ID</b> : L2043931-03D<br><b>Client ID</b> : CTM-MW-4_201013<br><b>Sample Location</b> : NEWBURGH, NY<br><b>Sample Matrix</b> : WATER<br><b>Analytical Method</b> : 134,LCMSMS-ID<br><b>Lab File ID</b> : I31066<br><b>Sample Amount</b> : 262.13 g<br><b>Extraction Method</b> : ALPHA 23528<br><b>Extract Volume</b> : 1000 uL<br><b>GPC Cleanup</b> : N | <b>Lab Number</b> : L2043931<br><b>Project Number</b> : 19.9405<br><b>Date Collected</b> : 10/13/20 12:35<br><b>Date Received</b> : 10/13/20<br><b>Date Analyzed</b> : 10/25/20 12:15<br><b>Date Extracted</b> : 10/22/20<br><b>Dilution Factor</b> : 5<br><b>Analyst</b> : SG<br><b>Instrument ID</b> : LCMS02<br><b>GC Column</b> : Acquity UPLC BEH C18<br><b>%Solids</b> : N/A<br><b>Injection Volume</b> : 3 uL |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

| CAS NO.    | Parameter                          | ng/l    |      |      | Qualifier |
|------------|------------------------------------|---------|------|------|-----------|
|            |                                    | Results | RL   | MDL  |           |
| 307-55-1   | Perfluorododecanoic Acid (PFDoA)   | ND      | 9.54 | 1.77 | U         |
| 72629-94-8 | Perfluorotridecanoic Acid (PFTrDA) | ND      | 9.54 | 1.56 | U         |
| 376-06-7   | Perfluorotetradecanoic Acid (PFTA) | ND      | 9.54 | 1.18 | U         |
| NONE       | PFOA/PFOS, Total                   | 202     | 9.54 | 1.12 |           |

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# Results Summary

## Form 1

### Perfluorinated Alkyl Acids by Isotope Dilution

Client : C.T. Male Associates  
 Project Name : 5 SCOBIE DR  
 Lab ID : L2043931-04  
 Client ID : CTM-MW-3\_201013  
 Sample Location : NEWBURGH, NY  
 Sample Matrix : WATER  
 Analytical Method : 134,LCMSMS-ID  
 Lab File ID : I30968  
 Sample Amount : 278.67 g  
 Extraction Method : ALPHA 23528  
 Extract Volume : 1000 uL  
 GPC Cleanup : N

Lab Number : L2043931  
 Project Number : 19.9405  
 Date Collected : 10/13/20 13:05  
 Date Received : 10/13/20  
 Date Analyzed : 10/24/20 00:05  
 Date Extracted : 10/22/20  
 Dilution Factor : 1  
 Analyst : JW  
 Instrument ID : LCMS02  
 GC Column : Acquity UPLC BEH C18  
 %Solids : N/A  
 Injection Volume : 3 uL

| CAS NO.    | Parameter                                                 | ng/l    |      |       | Qualifier |
|------------|-----------------------------------------------------------|---------|------|-------|-----------|
|            |                                                           | Results | RL   | MDL   |           |
| 375-22-4   | Perfluorobutanoic Acid (PFBA)                             | 35.6    | 1.79 | 0.366 | J         |
| 2706-90-3  | Perfluoropentanoic Acid (PFPeA)                           | 72.2    | 1.79 | 0.355 |           |
| 375-73-5   | Perfluorobutanesulfonic Acid (PFBS)                       | 29.0    | 1.79 | 0.214 |           |
| 307-24-4   | Perfluorohexanoic Acid (PFHxA)                            | 88.7    | 1.79 | 0.294 |           |
| 375-85-9   | Perfluoroheptanoic Acid (PFHpA)                           | 63.0    | 1.79 | 0.202 |           |
| 355-46-4   | Perfluorohexanesulfonic Acid (PFHxS)                      | 27.0    | 1.79 | 0.337 |           |
| 335-67-1   | Perfluorooctanoic Acid (PFOA)                             | 221     | 1.79 | 0.212 |           |
| 27619-97-2 | 1H,1H,2H,2H-Perfluorooctanesulfonic Acid<br>(6:2FTS)      | ND      | 1.79 | 1.19  | U         |
| 375-92-8   | Perfluoroheptanesulfonic Acid (PFHpS)                     | 3.17    | 1.79 | 0.617 |           |
| 375-95-1   | Perfluorononanoic Acid (PFNA)                             | 25.6    | 1.79 | 0.280 |           |
| 1763-23-1  | Perfluorooctanesulfonic Acid (PFOS)                       | 78.1    | 1.79 | 0.452 | J         |
| 335-76-2   | Perfluorodecanoic Acid (PFDA)                             | 8.30    | 1.79 | 0.273 |           |
| 39108-34-4 | 1H,1H,2H,2H-Perfluorodecanesulfonic Acid<br>(8:2FTS)      | ND      | 1.79 | 1.09  | U         |
| 2355-31-9  | N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA) | ND      | 1.79 | 0.581 | U         |
| 2058-94-8  | Perfluoroundecanoic Acid (PFUnA)                          | ND      | 1.79 | 0.233 | U         |
| 335-77-3   | Perfluorodecanesulfonic Acid (PFDS)                       | ND      | 1.79 | 0.879 | U         |
| 754-91-6   | Perfluorooctanesulfonamide (FOSA)                         | ND      | 1.79 | 0.520 | U         |
| 2991-50-6  | N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)  | 1.90    | 1.79 | 0.721 |           |



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**Results Summary**  
**Form 1**  
**Perfluorinated Alkyl Acids by Isotope Dilution**

Client : C.T. Male Associates  
 Project Name : 5 SCOBIE DR  
 Lab ID : L2043931-04  
 Client ID : CTM-MW-3\_201013  
 Sample Location : NEWBURGH, NY  
 Sample Matrix : WATER  
 Analytical Method : 134,LCMSMS-ID  
 Lab File ID : I30968  
 Sample Amount : 278.67 g  
 Extraction Method : ALPHA 23528  
 Extract Volume : 1000 uL  
 GPC Cleanup : N

Lab Number : L2043931  
 Project Number : 19.9405  
 Date Collected : 10/13/20 13:05  
 Date Received : 10/13/20  
 Date Analyzed : 10/24/20 00:05  
 Date Extracted : 10/22/20  
 Dilution Factor : 1  
 Analyst : JW  
 Instrument ID : LCMS02  
 GC Column : Acquity UPLC BEH C18  
 %Solids : N/A  
 Injection Volume : 3 uL

| CAS NO.    | Parameter                          | ng/l    |      |       | Qualifier |
|------------|------------------------------------|---------|------|-------|-----------|
|            |                                    | Results | RL   | MDL   |           |
| 307-55-1   | Perfluorododecanoic Acid (PFDoA)   | ND      | 1.79 | 0.334 | U         |
| 72629-94-8 | Perfluorotridecanoic Acid (PFTrDA) | ND      | 1.79 | 0.294 | U         |
| 376-06-7   | Perfluorotetradecanoic Acid (PFTA) | ND      | 1.79 | 0.222 | U         |
| NONE       | PFOA/PFOS, Total                   | 299     | 1.79 | 0.212 |           |

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# Results Summary Form 1 Perfluorinated Alkyl Acids by Isotope Dilution

Client : C.T. Male Associates  
 Project Name : 5 SCOBIE DR  
 Lab ID : L2043931-05  
 Client ID : MW-5\_201013  
 Sample Location : NEWBURGH, NY  
 Sample Matrix : WATER  
 Analytical Method : 134,LCMSMS-ID  
 Lab File ID : I30969  
 Sample Amount : 274.53 g  
 Extraction Method : ALPHA 23528  
 Extract Volume : 1000 uL  
 GPC Cleanup : N

Lab Number : L2043931  
 Project Number : 19.9405  
 Date Collected : 10/13/20 13:45  
 Date Received : 10/13/20  
 Date Analyzed : 10/24/20 00:22  
 Date Extracted : 10/22/20  
 Dilution Factor : 1  
 Analyst : JW  
 Instrument ID : LCMS02  
 GC Column : Acquity UPLC BEH C18  
 %Solids : N/A  
 Injection Volume : 3 uL

| CAS NO.    | Parameter                                                    | ng/l    |      |       | Qualifier |
|------------|--------------------------------------------------------------|---------|------|-------|-----------|
|            |                                                              | Results | RL   | MDL   |           |
| 375-22-4   | Perfluorobutanoic Acid (PFBA)                                | 13.3    | 1.82 | 0.372 |           |
| 2706-90-3  | Perfluoropentanoic Acid (PFPeA)                              | 15.8    | 1.82 | 0.361 |           |
| 375-73-5   | Perfluorobutanesulfonic Acid (PFBS)                          | 9.50    | 1.82 | 0.217 |           |
| 307-24-4   | Perfluorohexanoic Acid (PFHxA)                               | 26.0    | 1.82 | 0.299 |           |
| 375-85-9   | Perfluoroheptanoic Acid (PFHpA)                              | 27.5    | 1.82 | 0.205 |           |
| 355-46-4   | Perfluorohexanesulfonic Acid (PFHxS)                         | 14.7    | 1.82 | 0.342 |           |
| 335-67-1   | Perfluorooctanoic Acid (PFOA)                                | 89.3    | 1.82 | 0.215 |           |
| 27619-97-2 | 1H,1H,2H,2H-Perfluorooctanesulfonic Acid<br>(6:2FTS)         | ND      | 1.82 | 1.21  | U         |
| 375-92-8   | Perfluoroheptanesulfonic Acid (PFHpS)                        | 0.943   | 1.82 | 0.626 | J         |
| 375-95-1   | Perfluorononanoic Acid (PFNA)                                | 3.97    | 1.82 | 0.284 |           |
| 1763-23-1  | Perfluorooctanesulfonic Acid (PFOS)                          | 23.3    | 1.82 | 0.459 |           |
| 335-76-2   | Perfluorodecanoic Acid (PFDA)                                | 0.834   | 1.82 | 0.277 | J         |
| 39108-34-4 | 1H,1H,2H,2H-Perfluorodecanesulfonic Acid<br>(8:2FTS)         | ND      | 1.82 | 1.10  | U         |
| 2355-31-9  | N-Methyl Perfluorooctanesulfonamidoacetic<br>Acid (NMeFOSAA) | ND      | 1.82 | 0.590 | U         |
| 2058-94-8  | Perfluoroundecanoic Acid (PFUnA)                             | ND      | 1.82 | 0.237 | U         |
| 335-77-3   | Perfluorodecanesulfonic Acid (PFDS)                          | ND      | 1.82 | 0.892 | U         |
| 754-91-6   | Perfluorooctanesulfonamide (FOSA)                            | ND      | 1.82 | 0.528 | U         |
| 2991-50-6  | N-Ethyl Perfluorooctanesulfonamidoacetic<br>Acid (NEtFOSAA)  | ND      | 1.82 | 0.732 | U         |



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**Results Summary**  
**Form 1**  
**Perfluorinated Alkyl Acids by Isotope Dilution**

Client : C.T. Male Associates  
Project Name : 5 SCOBIE DR  
Lab ID : L2043931-05  
Client ID : MW-5\_201013  
Sample Location : NEWBURGH, NY  
Sample Matrix : WATER  
Analytical Method : 134,LCMSMS-ID  
Lab File ID : I30969  
Sample Amount : 274.53 g  
Extraction Method : ALPHA 23528  
Extract Volume : 1000 uL  
GPC Cleanup : N

Lab Number : L2043931  
Project Number : 19.9405  
Date Collected : 10/13/20 13:45  
Date Received : 10/13/20  
Date Analyzed : 10/24/20 00:22  
Date Extracted : 10/22/20  
Dilution Factor : 1  
Analyst : JW  
Instrument ID : LCMS02  
GC Column : Acquity UPLC BEH C18  
%Solids : N/A  
Injection Volume : 3 uL

| CAS NO.    | Parameter                           | ng/l    |      |       | Qualifier |
|------------|-------------------------------------|---------|------|-------|-----------|
|            |                                     | Results | RL   | MDL   |           |
| 307-55-1   | Perfluorododecanoic Acid (PFDoA)    | ND      | 1.82 | 0.339 | U         |
| 72629-94-8 | Perfluorotridecanoic Acid (PFTTrDA) | ND      | 1.82 | 0.298 | U         |
| 376-06-7   | Perfluorotetradecanoic Acid (PFTA)  | ND      | 1.82 | 0.226 | U         |
| NONE       | PFOA/PFOS, Total                    | 113     | 1.82 | 0.215 |           |

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## Results Summary Form 1

### Perfluorinated Alkyl Acids by Isotope Dilution

Client : C.T. Male Associates  
Project Name : 5 SCOBIE DR  
Lab ID : L2043931-06D  
Client ID : GWFD01-201013  
Sample Location : NEWBURGH, NY  
Sample Matrix : WATER  
Analytical Method : 134,LCMSMS-ID  
Lab File ID : I31067  
Sample Amount : 261.16 g  
Extraction Method : ALPHA 23528  
Extract Volume : 1000 uL  
GPC Cleanup : N

Lab Number : L2043931  
Project Number : 19.9405  
Date Collected : 10/13/20 00:00  
Date Received : 10/13/20  
Date Analyzed : 10/25/20 12:31  
Date Extracted : 10/22/20  
Dilution Factor : 5  
Analyst : SG  
Instrument ID : LCMS02  
GC Column : Acquity UPLC BEH C18  
%Solids : N/A  
Injection Volume : 3 uL

| CAS NO.    | Parameter                                                    | ng/l    |      |      | Qualifier      |
|------------|--------------------------------------------------------------|---------|------|------|----------------|
|            |                                                              | Results | RL   | MDL  |                |
| 375-22-4   | Perfluorobutanoic Acid (PFBA)                                | 22.4    | 9.57 | 1.95 |                |
| 2706-90-3  | Perfluoropentanoic Acid (PFPeA)                              | 19.6    | 9.57 | 1.90 |                |
| 375-73-5   | Perfluorobutanesulfonic Acid (PFBS)                          | 11.4    | 9.57 | 1.14 |                |
| 307-24-4   | Perfluorohexanoic Acid (PFHxA)                               | 15.9    | 9.57 | 1.57 |                |
| 375-85-9   | Perfluoroheptanoic Acid (PFHpA)                              | 13.4    | 9.57 | 1.08 |                |
| 355-46-4   | Perfluorohexanesulfonic Acid (PFHxS)                         | 50.3    | 9.57 | 1.80 | <del>F</del> J |
| 335-67-1   | Perfluorooctanoic Acid (PFOA)                                | 104     | 9.57 | 1.13 |                |
| 27619-97-2 | 1H,1H,2H,2H-Perfluorooctanesulfonic Acid<br>(6:2FTS)         | ND      | 9.57 | 6.38 | U              |
| 375-92-8   | Perfluoroheptanesulfonic Acid (PFHpS)                        | 4.63    | 9.57 | 3.29 | J              |
| 375-95-1   | Perfluorononanoic Acid (PFNA)                                | ND      | 9.57 | 1.49 | U              |
| 1763-23-1  | Perfluorooctanesulfonic Acid (PFOS)                          | 125     | 9.57 | 2.41 |                |
| 335-76-2   | Perfluorodecanoic Acid (PFDA)                                | ND      | 9.57 | 1.46 | U              |
| 39108-34-4 | 1H,1H,2H,2H-Perfluorodecanesulfonic Acid<br>(8:2FTS)         | ND      | 9.57 | 5.80 | U              |
| 2355-31-9  | N-Methyl Perfluorooctanesulfonamidoacetic<br>Acid (NMeFOSAA) | ND      | 9.57 | 3.10 | U              |
| 2058-94-8  | Perfluoroundecanoic Acid (PFUnA)                             | ND      | 9.57 | 1.24 | U              |
| 335-77-3   | Perfluorodecanesulfonic Acid (PFDS)                          | ND      | 9.57 | 4.69 | U              |
| 754-91-6   | Perfluorooctanesulfonamide (FOSA)                            | ND      | 9.57 | 2.78 | U              |
| 2991-50-6  | N-Ethyl Perfluorooctanesulfonamidoacetic<br>Acid (NEtFOSAA)  | 38.2    | 9.57 | 3.85 | <del>F</del> J |

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**Results Summary**  
**Form 1**  
**Perfluorinated Alkyl Acids by Isotope Dilution**

Client : C.T. Male Associates  
Project Name : 5 SCOBIE DR  
Lab ID : L2043931-06D  
Client ID : GWFD01-201013  
Sample Location : NEWBURGH, NY  
Sample Matrix : WATER  
Analytical Method : 134,LCMSMS-ID  
Lab File ID : I31067  
Sample Amount : 261.16 g  
Extraction Method : ALPHA 23528  
Extract Volume : 1000 uL  
GPC Cleanup : N

Lab Number : L2043931  
Project Number : 19.9405  
Date Collected : 10/13/20 00:00  
Date Received : 10/13/20  
Date Analyzed : 10/25/20 12:31  
Date Extracted : 10/22/20  
Dilution Factor : 5  
Analyst : SG  
Instrument ID : LCMS02  
GC Column : Acquity UPLC BEH C18  
%Solids : N/A  
Injection Volume : 3 uL

| CAS NO.    | Parameter                          | ng/l    |      |      | Qualifier |
|------------|------------------------------------|---------|------|------|-----------|
|            |                                    | Results | RL   | MDL  |           |
| 307-55-1   | Perfluorododecanoic Acid (PFDoA)   | ND      | 9.57 | 1.78 | U         |
| 72629-94-8 | Perfluorotridecanoic Acid (PFTrDA) | ND      | 9.57 | 1.57 | U         |
| 376-06-7   | Perfluorotetradecanoic Acid (PFTA) | ND      | 9.57 | 1.19 | U         |
| NONE       | PFOA/PFOS, Total                   | 229     | 9.57 | 1.13 |           |

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## Results Summary Form 1 Perfluorinated Alkyl Acids by Isotope Dilution

Client : C.T. Male Associates  
Project Name : 5 SCOBIE DR  
Lab ID : L2043931-07  
Client ID : GWEB01-201013  
Sample Location : NEWBURGH, NY  
Sample Matrix : WATER  
Analytical Method : 134,LCMSMS-ID  
Lab File ID : I30971  
Sample Amount : 266.9 g  
Extraction Method : ALPHA 23528  
Extract Volume : 1000 uL  
GPC Cleanup : N

Lab Number : L2043931  
Project Number : 19.9405  
Date Collected : 10/13/20 14:15  
Date Received : 10/13/20  
Date Analyzed : 10/24/20 00:55  
Date Extracted : 10/22/20  
Dilution Factor : 1  
Analyst : JW  
Instrument ID : LCMS02  
GC Column : Acquity UPLC BEH C18  
%Solids : N/A  
Injection Volume : 3 uL

| CAS NO.    | Parameter                                                 | ng/l    |      |       | Qualifier      |
|------------|-----------------------------------------------------------|---------|------|-------|----------------|
|            |                                                           | Results | RL   | MDL   |                |
| 375-22-4   | Perfluorobutanoic Acid (PFBA)                             | ND      | 1.87 | 0.382 | U              |
| 2706-90-3  | Perfluoropentanoic Acid (PFPeA)                           | ND      | 1.87 | 0.371 | U              |
| 375-73-5   | Perfluorobutanesulfonic Acid (PFBS)                       | ND      | 1.87 | 0.223 | U              |
| 307-24-4   | Perfluorohexanoic Acid (PFHxA)                            | 0.348   | 1.87 | 0.307 | <del>U</del> U |
| 375-85-9   | Perfluoroheptanoic Acid (PFHpA)                           | ND      | 1.87 | 0.211 | U              |
| 355-46-4   | Perfluorohexanesulfonic Acid (PFHxS)                      | ND      | 1.87 | 0.352 | U              |
| 335-67-1   | Perfluorooctanoic Acid (PFOA)                             | ND      | 1.87 | 0.221 | U              |
| 27619-97-2 | 1H,1H,2H,2H-Perfluorooctanesulfonic Acid<br>(6:2FTS)      | ND      | 1.87 | 1.25  | U              |
| 375-92-8   | Perfluoroheptanesulfonic Acid (PFHpS)                     | ND      | 1.87 | 0.644 | U              |
| 375-95-1   | Perfluorononanoic Acid (PFNA)                             | ND      | 1.87 | 0.292 | U              |
| 1763-23-1  | Perfluorooctanesulfonic Acid (PFOS)                       | ND      | 1.87 | 0.472 | U              |
| 335-76-2   | Perfluorodecanoic Acid (PFDA)                             | ND      | 1.87 | 0.285 | U              |
| 39108-34-4 | 1H,1H,2H,2H-Perfluorodecanesulfonic Acid<br>(8:2FTS)      | ND      | 1.87 | 1.14  | U              |
| 2355-31-9  | N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA) | ND      | 1.87 | 0.607 | U              |
| 2058-94-8  | Perfluoroundecanoic Acid (PFUnA)                          | ND      | 1.87 | 0.244 | U              |
| 335-77-3   | Perfluorodecanesulfonic Acid (PFDS)                       | ND      | 1.87 | 0.918 | U              |
| 754-91-6   | Perfluorooctanesulfonamide (FOSA)                         | ND      | 1.87 | 0.543 | U              |
| 2991-50-6  | N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)  | ND      | 1.87 | 0.753 | U              |



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# Results Summary

## Form 1

### Perfluorinated Alkyl Acids by Isotope Dilution

|                   |                        |                  |                        |
|-------------------|------------------------|------------------|------------------------|
| Client            | : C.T. Male Associates | Lab Number       | : L2043931             |
| Project Name      | : 5 SCOBIE DR          | Project Number   | : 19.9405              |
| Lab ID            | : L2043931-07          | Date Collected   | : 10/13/20 14:15       |
| Client ID         | : GWEB01-201013        | Date Received    | : 10/13/20             |
| Sample Location   | : NEWBURGH, NY         | Date Analyzed    | : 10/24/20 00:55       |
| Sample Matrix     | : WATER                | Date Extracted   | : 10/22/20             |
| Analytical Method | : 134,LCMSMS-ID        | Dilution Factor  | : 1                    |
| Lab File ID       | : I30971               | Analyst          | : JW                   |
| Sample Amount     | : 266.9 g              | Instrument ID    | : LCMS02               |
| Extraction Method | : ALPHA 23528          | GC Column        | : Acquity UPLC BEH C18 |
| Extract Volume    | : 1000 uL              | %Solids          | : N/A                  |
| GPC Cleanup       | : N                    | Injection Volume | : 3 uL                 |

| CAS NO.    | Parameter                          | ng/l    |      |       | Qualifier |
|------------|------------------------------------|---------|------|-------|-----------|
|            |                                    | Results | RL   | MDL   |           |
| 307-55-1   | Perfluorododecanoic Acid (PFDoA)   | ND      | 1.87 | 0.348 | U         |
| 72629-94-8 | Perfluorotridecanoic Acid (PFTrDA) | ND      | 1.87 | 0.306 | U         |
| 376-06-7   | Perfluorotetradecanoic Acid (PFTA) | ND      | 1.87 | 0.232 | U         |
| NONE       | PFOA/PFOS, Total                   | ND      | 1.87 | 0.221 | U         |

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## Results Summary Form 1

### Perfluorinated Alkyl Acids by Isotope Dilution

Client : C.T. Male Associates  
Project Name : 5 SCOBIE DR  
Lab ID : L2043931-08  
Client ID : GWFB01-201013  
Sample Location : NEWBURGH, NY  
Sample Matrix : WATER  
Analytical Method : 134,LCMSMS-ID  
Lab File ID : I30972  
Sample Amount : 268.35 g  
Extraction Method : ALPHA 23528  
Extract Volume : 1000 uL  
GPC Cleanup : N

Lab Number : L2043931  
Project Number : 19.9405  
Date Collected : 10/13/20 14:20  
Date Received : 10/13/20  
Date Analyzed : 10/24/20 01:11  
Date Extracted : 10/22/20  
Dilution Factor : 1  
Analyst : JW  
Instrument ID : LCMS02  
GC Column : Acquity UPLC BEH C18  
%Solids : N/A  
Injection Volume : 3 uL

| CAS NO.    | Parameter                                                    | ng/l    |      |       | Qualifier |
|------------|--------------------------------------------------------------|---------|------|-------|-----------|
|            |                                                              | Results | RL   | MDL   |           |
| 375-22-4   | Perfluorobutanoic Acid (PFBA)                                | ND      | 1.86 | 0.380 | U         |
| 2706-90-3  | Perfluoropentanoic Acid (PFPeA)                              | ND      | 1.86 | 0.369 | U         |
| 375-73-5   | Perfluorobutanesulfonic Acid (PFBS)                          | ND      | 1.86 | 0.222 | U         |
| 307-24-4   | Perfluorohexanoic Acid (PFHxA)                               | 0.388   | 1.86 | 0.306 | J U       |
| 375-85-9   | Perfluoroheptanoic Acid (PFHpA)                              | ND      | 1.86 | 0.210 | U         |
| 355-46-4   | Perfluorohexanesulfonic Acid (PFHxS)                         | ND      | 1.86 | 0.350 | U         |
| 335-67-1   | Perfluorooctanoic Acid (PFOA)                                | ND      | 1.86 | 0.220 | U         |
| 27619-97-2 | 1H,1H,2H,2H-Perfluorooctanesulfonic Acid<br>(6:2FTS)         | ND      | 1.86 | 1.24  | U         |
| 375-92-8   | Perfluoroheptanesulfonic Acid (PFHpS)                        | ND      | 1.86 | 0.641 | U         |
| 375-95-1   | Perfluorononanoic Acid (PFNA)                                | ND      | 1.86 | 0.291 | U         |
| 1763-23-1  | Perfluorooctanesulfonic Acid (PFOS)                          | ND      | 1.86 | 0.470 | U         |
| 335-76-2   | Perfluorodecanoic Acid (PFDA)                                | ND      | 1.86 | 0.283 | U         |
| 39108-34-4 | 1H,1H,2H,2H-Perfluorodecanesulfonic Acid<br>(8:2FTS)         | ND      | 1.86 | 1.13  | U         |
| 2355-31-9  | N-Methyl Perfluorooctanesulfonamidoacetic<br>Acid (NMeFOSAA) | ND      | 1.86 | 0.604 | U         |
| 2058-94-8  | Perfluoroundecanoic Acid (PFUnA)                             | ND      | 1.86 | 0.242 | U         |
| 335-77-3   | Perfluorodecanesulfonic Acid (PFDS)                          | ND      | 1.86 | 0.913 | U         |
| 754-91-6   | Perfluorooctanesulfonamide (FOSA)                            | ND      | 1.86 | 0.540 | U         |
| 2991-50-6  | N-Ethyl Perfluorooctanesulfonamidoacetic<br>Acid (NEtFOSAA)  | ND      | 1.86 | 0.749 | U         |

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# **Results Summary** **Form 1** **Perfluorinated Alkyl Acids by Isotope Dilution**

Client : C.T. Male Associates  
 Project Name : 5 SCOBIE DR  
 Lab ID : L2043931-08  
 Client ID : GWFB01-201013  
 Sample Location : NEWBURGH, NY  
 Sample Matrix : WATER  
 Analytical Method : 134, LCMSMS-ID  
 Lab File ID : I30972  
 Sample Amount : 268.35 g  
 Extraction Method : ALPHA 23528  
 Extract Volume : 1000 uL  
 GPC Cleanup : N

Lab Number : L2043931  
 Project Number : 19.9405  
 Date Collected : 10/13/20 14:20  
 Date Received : 10/13/20  
 Date Analyzed : 10/24/20 01:11  
 Date Extracted : 10/22/20  
 Dilution Factor : 1  
 Analyst : JW  
 Instrument ID : LCMS02  
 GC Column : Acquity UPLC BEH C18  
 %Solids : N/A  
 Injection Volume : 3 uL

| CAS NO.    | Parameter                          | ng/l    |      |       | Qualifier |
|------------|------------------------------------|---------|------|-------|-----------|
|            |                                    | Results | RL   | MDL   |           |
| 307-55-1   | Perfluorododecanoic Acid (PFDoA)   | ND      | 1.86 | 0.346 | U         |
| 72629-94-8 | Perfluorotridecanoic Acid (PFTrDA) | ND      | 1.86 | 0.305 | U         |
| 376-06-7   | Perfluorotetradecanoic Acid (PFTA) | ND      | 1.86 | 0.231 | U         |
| NONE       | PFOA/PFOS, Total                   | ND      | 1.86 | 0.220 | U         |

*My 1/16/24*

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## Results Summary Form 1

### Perfluorinated Alkyl Acids by Isotope Dilution

Client : C.T. Male Associates  
 Project Name : 5 SCOBIE DR  
 Lab ID : L2043931-09  
 Client ID : GWLTB01-201013  
 Sample Location : NEWBURGH, NY  
 Sample Matrix : WATER  
 Analytical Method : 134,LCMSMS-ID  
 Lab File ID : I30973  
 Sample Amount : 258.38 g  
 Extraction Method : ALPHA 23528  
 Extract Volume : 1000 uL  
 GPC Cleanup : N

Lab Number : L2043931  
 Project Number : 19.9405  
 Date Collected : 10/13/20 00:00  
 Date Received : 10/13/20  
 Date Analyzed : 10/24/20 01:28  
 Date Extracted : 10/22/20  
 Dilution Factor : 1  
 Analyst : JW  
 Instrument ID : LCMS02  
 GC Column : Acquity UPLC BEH C18  
 %Solids : N/A  
 Injection Volume : 3 uL

| CAS NO.    | Parameter                                                 | ng/l    |      |       | Qualifier |
|------------|-----------------------------------------------------------|---------|------|-------|-----------|
|            |                                                           | Results | RL   | MDL   |           |
| 375-22-4   | Perfluorobutanoic Acid (PFBA)                             | ND      | 1.94 | 0.395 | U         |
| 2706-90-3  | Perfluoropentanoic Acid (PFPeA)                           | ND      | 1.94 | 0.383 | U         |
| 375-73-5   | Perfluorobutanesulfonic Acid (PFBS)                       | ND      | 1.94 | 0.230 | U         |
| 307-24-4   | Perfluorohexanoic Acid (PFHxA)                            | 0.383   | 1.94 | 0.317 | U         |
| 375-85-9   | Perfluoroheptanoic Acid (PFHpA)                           | ND      | 1.94 | 0.218 | U         |
| 355-46-4   | Perfluorohexanesulfonic Acid (PFHxS)                      | ND      | 1.94 | 0.364 | U         |
| 335-67-1   | Perfluorooctanoic Acid (PFOA)                             | ND      | 1.94 | 0.228 | U         |
| 27619-97-2 | 1H,1H,2H,2H-Perfluorooctanesulfonic Acid<br>(6:2FTS)      | ND      | 1.94 | 1.29  | U         |
| 375-92-8   | Perfluoroheptanesulfonic Acid (PFHpS)                     | ND      | 1.94 | 0.666 | U         |
| 375-95-1   | Perfluorononanoic Acid (PFNA)                             | ND      | 1.94 | 0.302 | U         |
| 1763-23-1  | Perfluorooctanesulfonic Acid (PFOS)                       | ND      | 1.94 | 0.488 | U         |
| 335-76-2   | Perfluorodecanoic Acid (PFDA)                             | ND      | 1.94 | 0.294 | U         |
| 39108-34-4 | 1H,1H,2H,2H-Perfluorodecanesulfonic Acid<br>(8:2FTS)      | ND      | 1.94 | 1.17  | U         |
| 2355-31-9  | N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA) | ND      | 1.94 | 0.627 | U         |
| 2058-94-8  | Perfluoroundecanoic Acid (PFUnA)                          | ND      | 1.94 | 0.252 | U         |
| 335-77-3   | Perfluorodecanesulfonic Acid (PFDS)                       | ND      | 1.94 | 0.948 | U         |
| 754-91-6   | Perfluorooctanesulfonamide (FOSA)                         | ND      | 1.94 | 0.561 | U         |
| 2991-50-6  | N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)  | ND      | 1.94 | 0.778 | U         |

MT 1/19/24

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# Results Summary

## Form 1

### Perfluorinated Alkyl Acids by Isotope Dilution

|                                   |                                  |
|-----------------------------------|----------------------------------|
| Client : C.T. Male Associates     | Lab Number : L2043931            |
| Project Name : 5 SCOBIE DR        | Project Number : 19.9405         |
| Lab ID : L2043931-09              | Date Collected : 10/13/20 00:00  |
| Client ID : GWLTB01-201013        | Date Received : 10/13/20         |
| Sample Location : NEWBURGH, NY    | Date Analyzed : 10/24/20 01:28   |
| Sample Matrix : WATER             | Date Extracted : 10/22/20        |
| Analytical Method : 134,LCMSMS-ID | Dilution Factor : 1              |
| Lab File ID : I30973              | Analyst : JW                     |
| Sample Amount : 258.38 g          | Instrument ID : LCMS02           |
| Extraction Method : ALPHA 23528   | GC Column : Acquity UPLC BEH C18 |
| Extract Volume : 1000 uL          | %Solids : N/A                    |
| GPC Cleanup : N                   | Injection Volume : 3 uL          |

| CAS NO.    | Parameter                          | ng/l    |      |       | Qualifier |
|------------|------------------------------------|---------|------|-------|-----------|
|            |                                    | Results | RL   | MDL   |           |
| 307-55-1   | Perfluorododecanoic Acid (PFDoA)   | ND      | 1.94 | 0.360 | U         |
| 72629-94-8 | Perfluorotridecanoic Acid (PFTrDA) | ND      | 1.94 | 0.316 | U         |
| 376-06-7   | Perfluorotetradecanoic Acid (PFTA) | ND      | 1.94 | 0.240 | U         |
| NONE       | PFOA/PFOS, Total                   | ND      | 1.94 | 0.228 | U         |

mt 1/19/14

