

August 07, 2023

Jacob Sutherland
Fibertec Environmental Services
1914 Holloway Drive
Holt, MI 48842

RE: PFAS Testing
23G0165

Enclosed are the results of analyses for samples received by our laboratory on 7/18/2023. If you have any questions concerning this report, please feel free to contact me.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. These test results meet all requirements of NELAC and DoD QSM. Release of the hard copy has been authorized by the Laboratory Manager or designee, as verified by the following signature.

Sincerely,



Chue Moua
Project Manager

cmoua@applinc.com
559-862-2155

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Fibertec Environmental Services
1914 Holloway Drive
Holt, MI 48842

Project: PFAS Testing
Project Number: A16177
Project Manager: Jacob Sutherland

Reported: 08/07/2023 10:44

Analysis Case Narrative

PFAS: Manual integrations were performed for this method in accordance with APPL's SOP. Chromatograms after manual integration are enclosed for specific samples and analytes. Abbreviated flags for technical justification are listed on the chromatogram.

Some extracted internal standards recovered outside of control limits in some samples; these samples were diluted and recovered in control, unless stated otherwise.

The extracted internal standards 13C2-8:2FTS recovered above the upper control limit in the BCG0557-BLK1.

The extracted internal standards 13C2-8:2FTS recovered above the upper control limit in the BCG0557-BS1.

The extracted internal standards 13C2-8:2FTS recovered above the upper control limit in the BCG0557-MRL1.

Samples in this Report

| Lab ID | Sample | Matrix | Date Sampled | Date Received |
|------------|------------|--------|------------------|---------------|
| 23G0165-01 | MW-7D | Water | 07/13/2023 11:30 | 07/18/2023 |
| 23G0165-02 | MW-3S | Water | 07/13/2023 13:43 | 07/18/2023 |
| 23G0165-03 | WT BLANK | Water | 07/13/2023 16:16 | 07/18/2023 |
| 23G0165-04 | PUMP BLANK | Water | 07/13/2023 16:29 | 07/18/2023 |

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1914 Holloway Drive
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Project: PFAS Testing
Project Number: A16177
Project Manager: Jacob Sutherlund

Reported: 08/07/2023 10:44

Sample Results

Sample: MW-7D

23G0165-01 (Water)

| Analyte | Result /Qual | PQL | MDL | Units | Date Analyzed | DF | Method | Prep Batch |
|---------|--------------|-----|-----|-------|---------------|----|--------|------------|
|---------|--------------|-----|-----|-------|---------------|----|--------|------------|

Per- and Polyfluoroalkyl Substances

| | | | | | | | | |
|------------------------|-------|-----------|--|------|----------|----|------|---------|
| PFBA | ND | 4.0 | | ng/L | 07/28/23 | 1 | 537M | BCG0557 |
| PFPeA | 11 | 1.6 | | ng/L | 07/28/23 | 1 | 537M | BCG0557 |
| PFHxA | 8.2 | 1.6 | | ng/L | 07/28/23 | 1 | 537M | BCG0557 |
| PFHpA | ND | 1.6 | | ng/L | 07/28/23 | 1 | 537M | BCG0557 |
| PFOA | ND | 1.6 | | ng/L | 07/28/23 | 1 | 537M | BCG0557 |
| PFNA | ND | 1.6 | | ng/L | 07/28/23 | 1 | 537M | BCG0557 |
| PFDA | ND | 1.6 | | ng/L | 07/28/23 | 1 | 537M | BCG0557 |
| PFUnA | ND | 1.6 | | ng/L | 07/28/23 | 1 | 537M | BCG0557 |
| PFDoA | ND | 1.6 | | ng/L | 07/28/23 | 1 | 537M | BCG0557 |
| PFTTrDA | ND | 1.6 | | ng/L | 07/28/23 | 1 | 537M | BCG0557 |
| PFTeDA | ND | 1.6 | | ng/L | 07/28/23 | 1 | 537M | BCG0557 |
| PFBS | 2.5 | 1.6 | | ng/L | 07/28/23 | 1 | 537M | BCG0557 |
| PFPeS | ND | 1.6 | | ng/L | 07/28/23 | 1 | 537M | BCG0557 |
| PFHxS | ND | 1.6 | | ng/L | 07/28/23 | 1 | 537M | BCG0557 |
| PFHpS | ND | 1.6 | | ng/L | 07/28/23 | 1 | 537M | BCG0557 |
| PFOS | ND | 1.6 | | ng/L | 07/28/23 | 1 | 537M | BCG0557 |
| PFNS | ND | 1.6 | | ng/L | 07/28/23 | 1 | 537M | BCG0557 |
| PFDS | ND | 1.6 | | ng/L | 07/28/23 | 1 | 537M | BCG0557 |
| 4:2FTS | ND | 2.8 | | ng/L | 07/28/23 | 1 | 537M | BCG0557 |
| 6:2FTS | ND | 4.0 | | ng/L | 07/28/23 | 1 | 537M | BCG0557 |
| 8:2FTS | ND | 2.8 | | ng/L | 07/28/23 | 1 | 537M | BCG0557 |
| PFOSA | ND | 2.8 | | ng/L | 07/28/23 | 1 | 537M | BCG0557 |
| NMeFOSAA | ND | 1.6 | | ng/L | 07/28/23 | 1 | 537M | BCG0557 |
| NEtFOSAA | ND | 2.4 | | ng/L | 07/28/23 | 1 | 537M | BCG0557 |
| HFPO-DA | ND | 1.4 | | ng/L | 07/28/23 | 1 | 537M | BCG0557 |
| ADONA | ND | 1.4 | | ng/L | 07/28/23 | 1 | 537M | BCG0557 |
| 9CI-PF3ONS | ND | 1.4 | | ng/L | 07/28/23 | 1 | 537M | BCG0557 |
| 11CI-PF3OUDS | ND | 1.4 | | ng/L | 07/28/23 | 1 | 537M | BCG0557 |
| <hr/> | | | | | | | | |
| Surrogate: 13C4-PFBA | 95.6% | 50-150 | | | 07/28/23 | 1 | 537M | |
| Surrogate: 13C5-PFPEA | 92.6% | 50-150 | | | 07/28/23 | 1 | 537M | |
| Surrogate: 13C5-PFHXA | 93.9% | 50-150 | | | 07/28/23 | 1 | 537M | |
| Surrogate: 13C4-PFHFA | 77.8% | 50-150 | | | 07/28/23 | 1 | 537M | |
| Surrogate: 13C8-PFOA | 96.6% | 50-150 | | | 07/28/23 | 1 | 537M | |
| Surrogate: 13C9-PFNA | 104% | 50-150 | | | 07/28/23 | 1 | 537M | |
| Surrogate: 13C6-PFDA | 91.7% | 50-150 | | | 07/28/23 | 1 | 537M | |
| Surrogate: 13C7-PFUnA | 95.7% | 50-150 | | | 07/28/23 | 1 | 537M | |
| Surrogate: 13C2-PFDOA | 87.5% | 50-150 | | | 07/28/23 | 1 | 537M | |
| Surrogate: 13C2-PFTEDA | 89.4% | 50-150 | | | 07/28/23 | 1 | 537M | |
| Surrogate: 13C3-PFBS | 101% | 50-150 | | | 07/28/23 | 1 | 537M | |
| Surrogate: 13C3-PFHXS | 96.4% | 50-150 | | | 07/28/23 | 1 | 537M | |
| Surrogate: 13C8-PFOS | 93.0% | 50-150 | | | 07/28/23 | 1 | 537M | |
| Surrogate: 13C2-4:2FTS | 95.6% | 50-150 | | | 07/28/23 | 1 | 537M | |
| Surrogate: 13C2-6:2FTS | 91.7% | 50-150 | | | 07/28/23 | 1 | 537M | |
| Surrogate: 13C2-8:2FTS | 158% | S2 50-150 | | | 07/28/23 | 1 | 537M | |
| Surrogate: 13C2-8:2FTS | 97.8% | 50-150 | | | 07/28/23 | 10 | 537M | |
| Surrogate: 13C8-PFOA | 89.6% | 50-150 | | | 07/28/23 | 1 | 537M | |

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Project Manager: Jacob Sutherland

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Sample Results (Continued)

Sample: MW-7D (Continued)
23G0165-01 (Water)

| Analyte | Result/Qual | PQL | MDL | Units | Date Analyzed | DF | Method | Prep Batch |
|---------|-------------|-----|-----|-------|---------------|----|--------|------------|
|---------|-------------|-----|-----|-------|---------------|----|--------|------------|

Per- and Polyfluoroalkyl Substances (Continued)

| | | | | | | | | |
|-------------------------|-------|--------|--|--|----------|---|------|--|
| Surrogate: D3-NMEFOSAA | 84.3% | 50-150 | | | 07/28/23 | 1 | 537M | |
| Surrogate: D5-NETFOSAA | 84.2% | 50-150 | | | 07/28/23 | 1 | 537M | |
| Surrogate: 13C3-HFPO-DA | 83.5% | 50-150 | | | 07/28/23 | 1 | 537M | |

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Sample Results (Continued)

Sample: **MW-3S****23G0165-02 (Water)**

| Analyte | Result /Qual | PQL | MDL | Units | Date Analyzed | DF | Method | Prep Batch |
|---------|--------------|-----|-----|-------|---------------|----|--------|------------|
|---------|--------------|-----|-----|-------|---------------|----|--------|------------|

Per- and Polyfluoroalkyl Substances

| | | | | | | | | |
|--------------|-----|------|-----|------|----------|---|------|---------|
| PFBA | ND | | 4.0 | ng/L | 07/28/23 | 1 | 537M | BCG0557 |
| PFPeA | ND | MI6, | 1.6 | ng/L | 07/28/23 | 1 | 537M | BCG0557 |
| PFHxA | ND | MI4, | 1.6 | ng/L | 07/28/23 | 1 | 537M | BCG0557 |
| PFHpA | 3.8 | MI4 | 1.6 | ng/L | 07/28/23 | 1 | 537M | BCG0557 |
| PFOA | 23 | MI4 | 1.6 | ng/L | 07/28/23 | 1 | 537M | BCG0557 |
| PFNA | ND | | 1.6 | ng/L | 07/28/23 | 1 | 537M | BCG0557 |
| PFDA | ND | | 1.6 | ng/L | 07/28/23 | 1 | 537M | BCG0557 |
| PFUnA | ND | | 1.6 | ng/L | 07/28/23 | 1 | 537M | BCG0557 |
| PFDoA | ND | | 1.6 | ng/L | 07/28/23 | 1 | 537M | BCG0557 |
| PFTTrDA | ND | | 1.6 | ng/L | 07/28/23 | 1 | 537M | BCG0557 |
| PFTeDA | ND | | 1.6 | ng/L | 07/28/23 | 1 | 537M | BCG0557 |
| PFBS | ND | | 1.6 | ng/L | 07/28/23 | 1 | 537M | BCG0557 |
| PFPeS | ND | MI4, | 1.6 | ng/L | 07/28/23 | 1 | 537M | BCG0557 |
| PFHxS | 1.9 | MI4 | 1.6 | ng/L | 07/28/23 | 1 | 537M | BCG0557 |
| PFHpS | ND | MI4, | 1.6 | ng/L | 07/28/23 | 1 | 537M | BCG0557 |
| PFOS | ND | | 1.6 | ng/L | 07/28/23 | 1 | 537M | BCG0557 |
| PFNS | ND | | 1.6 | ng/L | 07/28/23 | 1 | 537M | BCG0557 |
| PFDS | ND | | 1.6 | ng/L | 07/28/23 | 1 | 537M | BCG0557 |
| 4:2FTS | ND | | 2.8 | ng/L | 07/28/23 | 1 | 537M | BCG0557 |
| 6:2FTS | ND | | 4.0 | ng/L | 07/28/23 | 1 | 537M | BCG0557 |
| 8:2FTS | ND | | 2.8 | ng/L | 07/28/23 | 1 | 537M | BCG0557 |
| PFOSA | ND | | 2.8 | ng/L | 07/28/23 | 1 | 537M | BCG0557 |
| NMeFOSAA | ND | | 1.6 | ng/L | 07/28/23 | 1 | 537M | BCG0557 |
| NEtFOSAA | ND | | 2.4 | ng/L | 07/28/23 | 1 | 537M | BCG0557 |
| HFPO-DA | ND | | 1.4 | ng/L | 07/28/23 | 1 | 537M | BCG0557 |
| ADONA | ND | | 1.4 | ng/L | 07/28/23 | 1 | 537M | BCG0557 |
| 9CI-PF3ONS | ND | | 1.4 | ng/L | 07/28/23 | 1 | 537M | BCG0557 |
| 11CI-PF3OUDS | ND | | 1.4 | ng/L | 07/28/23 | 1 | 537M | BCG0557 |

| | | | | | |
|------------------------|-------|--------|----------|---|------|
| Surrogate: 13C4-PFBA | 97.4% | 50-150 | 07/28/23 | 1 | 537M |
| Surrogate: 13C5-PFPEA | 94.5% | 50-150 | 07/28/23 | 1 | 537M |
| Surrogate: 13C5-PFHXA | 98.2% | 50-150 | 07/28/23 | 1 | 537M |
| Surrogate: 13C4-PFHFA | 83.3% | 50-150 | 07/28/23 | 1 | 537M |
| Surrogate: 13C8-PFOA | 97.7% | 50-150 | 07/28/23 | 1 | 537M |
| Surrogate: 13C9-PFNA | 101% | 50-150 | 07/28/23 | 1 | 537M |
| Surrogate: 13C6-PFDA | 96.6% | 50-150 | 07/28/23 | 1 | 537M |
| Surrogate: 13C7-PFUnA | 102% | 50-150 | 07/28/23 | 1 | 537M |
| Surrogate: 13C2-PFDOA | 93.6% | 50-150 | 07/28/23 | 1 | 537M |
| Surrogate: 13C2-PFTEDA | 102% | 50-150 | 07/28/23 | 1 | 537M |
| Surrogate: 13C3-PFBS | 100% | 50-150 | 07/28/23 | 1 | 537M |
| Surrogate: 13C3-PFHXS | 102% | 50-150 | 07/28/23 | 1 | 537M |
| Surrogate: 13C8-PFOS | 95.3% | 50-150 | 07/28/23 | 1 | 537M |
| Surrogate: 13C2-4:2FTS | 121% | 50-150 | 07/28/23 | 1 | 537M |
| Surrogate: 13C2-6:2FTS | 96.8% | 50-150 | 07/28/23 | 1 | 537M |
| Surrogate: 13C2-8:2FTS | 130% | 50-150 | 07/28/23 | 1 | 537M |
| Surrogate: 13C8-PFOSA | 87.7% | 50-150 | 07/28/23 | 1 | 537M |
| Surrogate: D3-NMEFOSAA | 94.7% | 50-150 | 07/28/23 | 1 | 537M |

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Sample Results (Continued)

Sample: MW-3S (Continued)
23G0165-02 (Water)

| Analyte | Result/Qual | PQL | MDL | Units | Date Analyzed | DF | Method | Prep Batch |
|---------|-------------|-----|-----|-------|---------------|----|--------|------------|
|---------|-------------|-----|-----|-------|---------------|----|--------|------------|

Per- and Polyfluoroalkyl Substances (Continued)

| | | | | | | | | |
|-------------------------|-------|--------|--|--|----------|---|------|--|
| Surrogate: D5-NETFOSAA | 93.8% | 50-150 | | | 07/28/23 | 1 | 537M | |
| Surrogate: 13C3-HFPO-DA | 84.1% | 50-150 | | | 07/28/23 | 1 | 537M | |

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Project Manager: Jacob Sutherland

Reported: 08/07/2023 10:44

Sample Results (Continued)

Sample: WT BLANK
23G0165-03 (Water)

| Analyte | Result /Qual | PQL | MDL | Units | Date Analyzed | DF | Method | Prep Batch |
|---------|--------------|-----|-----|-------|---------------|----|--------|------------|
|---------|--------------|-----|-----|-------|---------------|----|--------|------------|

Per- and Polyfluoroalkyl Substances

| | | | | | | | | |
|--------------|----|-----|--|------|----------|---|------|---------|
| PFBA | ND | 4.0 | | ng/L | 07/28/23 | 1 | 537M | BCG0557 |
| PFPeA | ND | 1.6 | | ng/L | 07/28/23 | 1 | 537M | BCG0557 |
| PFHxA | ND | 1.6 | | ng/L | 07/28/23 | 1 | 537M | BCG0557 |
| PFHpA | ND | 1.6 | | ng/L | 07/28/23 | 1 | 537M | BCG0557 |
| PFOA | ND | 1.6 | | ng/L | 07/28/23 | 1 | 537M | BCG0557 |
| PFNA | ND | 1.6 | | ng/L | 07/28/23 | 1 | 537M | BCG0557 |
| PFDA | ND | 1.6 | | ng/L | 07/28/23 | 1 | 537M | BCG0557 |
| PFUnA | ND | 1.6 | | ng/L | 07/28/23 | 1 | 537M | BCG0557 |
| PFDoA | ND | 1.6 | | ng/L | 07/28/23 | 1 | 537M | BCG0557 |
| PFTTrDA | ND | 1.6 | | ng/L | 07/28/23 | 1 | 537M | BCG0557 |
| PFTeDA | ND | 1.6 | | ng/L | 07/28/23 | 1 | 537M | BCG0557 |
| PFBS | ND | 1.6 | | ng/L | 07/28/23 | 1 | 537M | BCG0557 |
| PFPeS | ND | 1.6 | | ng/L | 07/28/23 | 1 | 537M | BCG0557 |
| PFHxS | ND | 1.6 | | ng/L | 07/28/23 | 1 | 537M | BCG0557 |
| PFHpS | ND | 1.6 | | ng/L | 07/28/23 | 1 | 537M | BCG0557 |
| PFOS | ND | 1.6 | | ng/L | 07/28/23 | 1 | 537M | BCG0557 |
| PFNS | ND | 1.6 | | ng/L | 07/28/23 | 1 | 537M | BCG0557 |
| PFDS | ND | 1.6 | | ng/L | 07/28/23 | 1 | 537M | BCG0557 |
| 4:2FTS | ND | 2.7 | | ng/L | 07/28/23 | 1 | 537M | BCG0557 |
| 6:2FTS | ND | 4.0 | | ng/L | 07/28/23 | 1 | 537M | BCG0557 |
| 8:2FTS | ND | 2.7 | | ng/L | 07/28/23 | 1 | 537M | BCG0557 |
| PFOSA | ND | 2.7 | | ng/L | 07/28/23 | 1 | 537M | BCG0557 |
| NMeFOSAA | ND | 1.6 | | ng/L | 07/28/23 | 1 | 537M | BCG0557 |
| NEtFOSAA | ND | 2.4 | | ng/L | 07/28/23 | 1 | 537M | BCG0557 |
| HFPO-DA | ND | 1.4 | | ng/L | 07/28/23 | 1 | 537M | BCG0557 |
| ADONA | ND | 1.4 | | ng/L | 07/28/23 | 1 | 537M | BCG0557 |
| 9CI-PF3ONS | ND | 1.4 | | ng/L | 07/28/23 | 1 | 537M | BCG0557 |
| 11CI-PF3OUDS | ND | 1.4 | | ng/L | 07/28/23 | 1 | 537M | BCG0557 |

| | | | | | | | | |
|------------------------|-------|----|--------|--|----------|----|------|--|
| Surrogate: 13C4-PFBA | 98.1% | | 50-150 | | 07/28/23 | 1 | 537M | |
| Surrogate: 13C5-PFPEA | 93.1% | | 50-150 | | 07/28/23 | 1 | 537M | |
| Surrogate: 13C5-PFHXA | 100% | | 50-150 | | 07/28/23 | 1 | 537M | |
| Surrogate: 13C4-PFHFA | 87.0% | | 50-150 | | 07/28/23 | 1 | 537M | |
| Surrogate: 13C8-PFOA | 96.4% | | 50-150 | | 07/28/23 | 1 | 537M | |
| Surrogate: 13C9-PFNA | 94.4% | | 50-150 | | 07/28/23 | 1 | 537M | |
| Surrogate: 13C6-PFDA | 92.1% | | 50-150 | | 07/28/23 | 1 | 537M | |
| Surrogate: 13C7-PFUnA | 102% | | 50-150 | | 07/28/23 | 1 | 537M | |
| Surrogate: 13C2-PFDOA | 93.2% | | 50-150 | | 07/28/23 | 1 | 537M | |
| Surrogate: 13C2-PFTEDA | 94.0% | | 50-150 | | 07/28/23 | 1 | 537M | |
| Surrogate: 13C3-PFBS | 96.8% | | 50-150 | | 07/28/23 | 1 | 537M | |
| Surrogate: 13C3-PFHXS | 101% | | 50-150 | | 07/28/23 | 1 | 537M | |
| Surrogate: 13C8-PFOS | 94.7% | | 50-150 | | 07/28/23 | 1 | 537M | |
| Surrogate: 13C2-4:2FTS | 107% | | 50-150 | | 07/28/23 | 1 | 537M | |
| Surrogate: 13C2-6:2FTS | 94.8% | | 50-150 | | 07/28/23 | 1 | 537M | |
| Surrogate: 13C2-8:2FTS | 180% | S2 | 50-150 | | 07/28/23 | 1 | 537M | |
| Surrogate: 13C2-8:2FTS | 109% | | 50-150 | | 07/28/23 | 10 | 537M | |
| Surrogate: 13C8-PFOSA | 82.5% | | 50-150 | | 07/28/23 | 1 | 537M | |

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Sample Results (Continued)

Sample: WT BLANK (Continued)
23G0165-03 (Water)

| Analyte | Result/Qual | PQL | MDL | Units | Date Analyzed | DF | Method | Prep Batch |
|---------|-------------|-----|-----|-------|---------------|----|--------|------------|
|---------|-------------|-----|-----|-------|---------------|----|--------|------------|

Per- and Polyfluoroalkyl Substances (Continued)

| | | | | | | | | |
|-------------------------|-------|--------|--|--|----------|---|------|--|
| Surrogate: D3-NMEFOSAA | 95.2% | 50-150 | | | 07/28/23 | 1 | 537M | |
| Surrogate: D5-NETFOSAA | 106% | 50-150 | | | 07/28/23 | 1 | 537M | |
| Surrogate: 13C3-HFPO-DA | 91.7% | 50-150 | | | 07/28/23 | 1 | 537M | |

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Sample Results (Continued)

Sample: PUMP BLANK
23G0165-04 (Water)

| Analyte | Result /Qual | PQL | MDL | Units | Date Analyzed | DF | Method | Prep Batch |
|---------|--------------|-----|-----|-------|---------------|----|--------|------------|
|---------|--------------|-----|-----|-------|---------------|----|--------|------------|

Per- and Polyfluoroalkyl Substances

| | | | | | | | | |
|--------------|----|-----|--|------|----------|---|------|---------|
| PFBA | ND | 4.0 | | ng/L | 07/28/23 | 1 | 537M | BCG0557 |
| PFPeA | ND | 1.6 | | ng/L | 07/28/23 | 1 | 537M | BCG0557 |
| PFHxA | ND | 1.6 | | ng/L | 07/28/23 | 1 | 537M | BCG0557 |
| PFHpA | ND | 1.6 | | ng/L | 07/28/23 | 1 | 537M | BCG0557 |
| PFOA | ND | 1.6 | | ng/L | 07/28/23 | 1 | 537M | BCG0557 |
| PFNA | ND | 1.6 | | ng/L | 07/28/23 | 1 | 537M | BCG0557 |
| PFDA | ND | 1.6 | | ng/L | 07/28/23 | 1 | 537M | BCG0557 |
| PFUnA | ND | 1.6 | | ng/L | 07/28/23 | 1 | 537M | BCG0557 |
| PFDoA | ND | 1.6 | | ng/L | 07/28/23 | 1 | 537M | BCG0557 |
| PFTTrDA | ND | 1.6 | | ng/L | 07/28/23 | 1 | 537M | BCG0557 |
| PFTeDA | ND | 1.6 | | ng/L | 07/28/23 | 1 | 537M | BCG0557 |
| PFBS | ND | 1.6 | | ng/L | 07/28/23 | 1 | 537M | BCG0557 |
| PFPeS | ND | 1.6 | | ng/L | 07/28/23 | 1 | 537M | BCG0557 |
| PFHxS | ND | 1.6 | | ng/L | 07/28/23 | 1 | 537M | BCG0557 |
| PFHpS | ND | 1.6 | | ng/L | 07/28/23 | 1 | 537M | BCG0557 |
| PFOS | ND | 1.6 | | ng/L | 07/28/23 | 1 | 537M | BCG0557 |
| PFNS | ND | 1.6 | | ng/L | 07/28/23 | 1 | 537M | BCG0557 |
| PFDS | ND | 1.6 | | ng/L | 07/28/23 | 1 | 537M | BCG0557 |
| 4:2FTS | ND | 2.8 | | ng/L | 07/28/23 | 1 | 537M | BCG0557 |
| 6:2FTS | ND | 4.0 | | ng/L | 07/28/23 | 1 | 537M | BCG0557 |
| 8:2FTS | ND | 2.8 | | ng/L | 07/28/23 | 1 | 537M | BCG0557 |
| PFOSA | ND | 2.8 | | ng/L | 07/28/23 | 1 | 537M | BCG0557 |
| NMeFOSAA | ND | 1.6 | | ng/L | 07/28/23 | 1 | 537M | BCG0557 |
| NEtFOSAA | ND | 2.4 | | ng/L | 07/28/23 | 1 | 537M | BCG0557 |
| HFPO-DA | ND | 1.4 | | ng/L | 07/28/23 | 1 | 537M | BCG0557 |
| ADONA | ND | 1.4 | | ng/L | 07/28/23 | 1 | 537M | BCG0557 |
| 9CI-PF3ONS | ND | 1.4 | | ng/L | 07/28/23 | 1 | 537M | BCG0557 |
| 11CI-PF3OUDS | ND | 1.4 | | ng/L | 07/28/23 | 1 | 537M | BCG0557 |

| | | | | | | | | |
|------------------------|-------|----|--------|--|----------|----|------|--|
| Surrogate: 13C4-PFBA | 103% | | 50-150 | | 07/28/23 | 1 | 537M | |
| Surrogate: 13C5-PFPEA | 98.3% | | 50-150 | | 07/28/23 | 1 | 537M | |
| Surrogate: 13C5-PFHXA | 114% | | 50-150 | | 07/28/23 | 1 | 537M | |
| Surrogate: 13C4-PFHFA | 90.4% | | 50-150 | | 07/28/23 | 1 | 537M | |
| Surrogate: 13C8-PFOA | 97.7% | | 50-150 | | 07/28/23 | 1 | 537M | |
| Surrogate: 13C9-PFNA | 98.3% | | 50-150 | | 07/28/23 | 1 | 537M | |
| Surrogate: 13C6-PFDA | 100% | | 50-150 | | 07/28/23 | 1 | 537M | |
| Surrogate: 13C7-PFUnA | 112% | | 50-150 | | 07/28/23 | 1 | 537M | |
| Surrogate: 13C2-PFDOA | 102% | | 50-150 | | 07/28/23 | 1 | 537M | |
| Surrogate: 13C2-PFTEDA | 110% | | 50-150 | | 07/28/23 | 1 | 537M | |
| Surrogate: 13C3-PFBS | 107% | | 50-150 | | 07/28/23 | 1 | 537M | |
| Surrogate: 13C3-PFHXS | 102% | | 50-150 | | 07/28/23 | 1 | 537M | |
| Surrogate: 13C8-PFOS | 97.9% | | 50-150 | | 07/28/23 | 1 | 537M | |
| Surrogate: 13C2-4:2FTS | 112% | | 50-150 | | 07/28/23 | 1 | 537M | |
| Surrogate: 13C2-6:2FTS | 104% | | 50-150 | | 07/28/23 | 1 | 537M | |
| Surrogate: 13C2-8:2FTS | 161% | S2 | 50-150 | | 07/28/23 | 1 | 537M | |
| Surrogate: 13C2-8:2FTS | 109% | | 50-150 | | 07/28/23 | 10 | 537M | |
| Surrogate: 13C8-PFOSA | 83.5% | | 50-150 | | 07/28/23 | 1 | 537M | |

Fibertec Environmental Services
1914 Holloway Drive
Holt, MI 48842

Project: PFAS Testing
Project Number: A16177
Project Manager: Jacob Sutherland

Reported: 08/07/2023 10:44

Sample Results (Continued)

Sample: PUMP BLANK (Continued)
23G0165-04 (Water)

| Analyte | Result/Qual | PQL | MDL | Units | Date Analyzed | DF | Method | Prep Batch |
|---------|-------------|-----|-----|-------|---------------|----|--------|------------|
|---------|-------------|-----|-----|-------|---------------|----|--------|------------|

Per- and Polyfluoroalkyl Substances (Continued)

| | | | | | | | | |
|-------------------------|-------|--------|--|--|----------|---|------|--|
| Surrogate: D3-NMEFOSAA | 98.6% | 50-150 | | | 07/28/23 | 1 | 537M | |
| Surrogate: D5-NETFOSAA | 105% | 50-150 | | | 07/28/23 | 1 | 537M | |
| Surrogate: 13C3-HFPO-DA | 91.4% | 50-150 | | | 07/28/23 | 1 | 537M | |

Fibertec Environmental Services
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Reported: 08/07/2023 10:44

PREPARATION BATCH SUMMARY

537M

Laboratory: APPL, LLC

Client: Fibertec Environmental Services

Batch: BCG0557 Batch Matrix: Water Preparation: 537M

| SAMPLE NAME | LAB SAMPLE ID | DATE PREPARED | INITIAL VOL./WEIGHT mL | FINAL VOL. mL |
|-------------|---------------|----------------|---------------------------|------------------|
| MW-7D | 23G0165-01 | 07/26/23 11:30 | 287.63 | 2.00 |
| MW-7D | 23G0165-01RE1 | 07/26/23 11:30 | 287.63 | 2.00 |
| MW-3S | 23G0165-02 | 07/26/23 11:30 | 285.71 | 2.00 |
| WT BLANK | 23G0165-03 | 07/26/23 11:30 | 293.37 | 2.00 |
| WT BLANK | 23G0165-03RE1 | 07/26/23 11:30 | 293.37 | 2.00 |
| PUMP BLANK | 23G0165-04 | 07/26/23 11:30 | 287.69 | 2.00 |
| PUMP BLANK | 23G0165-04RE1 | 07/26/23 11:30 | 287.69 | 2.00 |
| Blank | BCG0557-BLK1 | 07/26/23 11:30 | 250.00 | 2.00 |
| LCS | BCG0557-BS1 | 07/26/23 11:30 | 250.00 | 2.00 |
| LCS Dup | BCG0557-BSD1 | 07/26/23 11:30 | 250.00 | 2.00 |
| MRL Check | BCG0557-MRL1 | 07/26/23 11:30 | 250.00 | 2.00 |

Fibertec Environmental Services
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Project: PFAS Testing
Project Number: A16177
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Reported: 08/07/2023 10:44

Quality Control

Per- and Polyfluoroalkyl Substances

| Analyte | Result/ Qual | PQL | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---------|--------------|-----|-----|-------|-------------|---------------|------|-------------|-----|-----------|
|---------|--------------|-----|-----|-------|-------------|---------------|------|-------------|-----|-----------|

Method: 537M

Batch: BCG0557 - 537M

Blank (BCG0557-BLK1)

Prepared: 07/26/23 11:30 Analyzed: 07/28/23 16:55

| | | | |
|--------------|----|-----|------|
| PFBA | ND | 4.0 | ng/L |
| PFPeA | ND | 1.6 | ng/L |
| PFHxA | ND | 1.6 | ng/L |
| PFHpA | ND | 1.6 | ng/L |
| PFOA | ND | 1.6 | ng/L |
| PFNA | ND | 1.6 | ng/L |
| PFDA | ND | 1.6 | ng/L |
| PFUnA | ND | 1.6 | ng/L |
| PFDoA | ND | 1.6 | ng/L |
| PFTTrDA | ND | 1.6 | ng/L |
| PFTeDA | ND | 1.6 | ng/L |
| PFBS | ND | 1.6 | ng/L |
| PFPeS | ND | 1.6 | ng/L |
| PFHxS | ND | 1.6 | ng/L |
| PFHpS | ND | 1.6 | ng/L |
| PFOS | ND | 1.6 | ng/L |
| PFNS | ND | 1.6 | ng/L |
| PFDS | ND | 1.6 | ng/L |
| 4:2FTS | ND | 3.2 | ng/L |
| 6:2FTS | ND | 4.0 | ng/L |
| 8:2FTS | ND | 3.2 | ng/L |
| PFOSA | ND | 3.2 | ng/L |
| NMeFOSAA | ND | 1.6 | ng/L |
| NEtFOSAA | ND | 2.4 | ng/L |
| HFPO-DA | ND | 1.6 | ng/L |
| ADONA | ND | 1.6 | ng/L |
| 9Cl-PF3ONS | ND | 1.6 | ng/L |
| 11Cl-PF3OUDS | ND | 1.6 | ng/L |

| | | | | | |
|------------------------|---------|------|------|------|--------|
| Surrogate: 13C4-PFBA | 64.9 | ng/L | 64.0 | 101 | 50-150 |
| Surrogate: 13C5-PFPEA | 31.8 | ng/L | 32.0 | 99.3 | 50-150 |
| Surrogate: 13C5-PFHXA | 16.4 | ng/L | 16.0 | 103 | 50-150 |
| Surrogate: 13C4-PFHPA | 14.7 | ng/L | 16.0 | 91.8 | 50-150 |
| Surrogate: 13C8-PFOA | 15.9 | ng/L | 16.0 | 99.2 | 50-150 |
| Surrogate: 13C9-PFNA | 7.72 | ng/L | 8.00 | 96.5 | 50-150 |
| Surrogate: 13C6-PFDA | 7.81 | ng/L | 8.00 | 97.6 | 50-150 |
| Surrogate: 13C7-PFUnA | 8.83 | ng/L | 8.00 | 110 | 50-150 |
| Surrogate: 13C2-PFDOA | 8.07 | ng/L | 8.00 | 101 | 50-150 |
| Surrogate: 13C2-PFTEDA | 9.02 | ng/L | 8.00 | 113 | 50-150 |
| Surrogate: 13C3-PFBS | 15.7 | ng/L | 16.0 | 98.4 | 50-150 |
| Surrogate: 13C3-PFHXS | 15.7 | ng/L | 16.0 | 98.2 | 50-150 |
| Surrogate: 13C8-PFOS | 15.4 | ng/L | 16.0 | 96.0 | 50-150 |
| Surrogate: 13C2-4:2FTS | 35.0 | ng/L | 32.0 | 109 | 50-150 |
| Surrogate: 13C2-6:2FTS | 30.1 | ng/L | 32.0 | 93.9 | 50-150 |
| Surrogate: 13C2-8:2FTS | 50.7 S2 | ng/L | 32.0 | 158 | 50-150 |
| Surrogate: 13C8-PFOSA | 11.5 | ng/L | 16.0 | 72.0 | 50-150 |
| Surrogate: D3-NMeFOSAA | 30.4 | ng/L | 32.0 | 95.1 | 50-150 |
| Surrogate: D5-NETFOSAA | 29.2 | ng/L | 32.0 | 91.4 | 50-150 |

Fibertec Environmental Services
1914 Holloway Drive
Holt, MI 48842

Project: PFAS Testing
Project Number: A16177
Project Manager: Jacob Sutherland

Reported: 08/07/2023 10:44

Quality Control (Continued)

Per- and Polyfluoroalkyl Substances (Continued)

| Analyte | Result/ Qual | PQL | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|-----------------------------|--------------|-----|-----|-------|--------------------------|---------------|--------------------------|-------------|-----|-----------|
| Blank (BCG0557-BLK1) | | | | | Prepared: 07/26/23 11:30 | | Analyzed: 07/28/23 16:55 | | | |
| Surrogate: 13C3-HFPO-DA | 58.4 | | | ng/L | 64.0 | | 91.2 | 50-150 | | |
| LCS (BCG0557-BS1) | | | | | Prepared: 07/26/23 11:30 | | Analyzed: 07/28/23 17:08 | | | |
| PFBA | 34.6 | | | ng/L | 32.0 | | 108 | 73-129 | | |
| PFPeA | 17.5 | | | ng/L | 16.0 | | 109 | 72-129 | | |
| PFHxA | 8.62 | | | ng/L | 8.00 | | 108 | 72-129 | | |
| PFFHpA | 9.83 | | | ng/L | 8.00 | | 123 | 72-130 | | |
| PFOA | 8.57 | | | ng/L | 8.00 | | 107 | 71-133 | | |
| PFNA | 8.54 | | | ng/L | 8.00 | | 107 | 69-130 | | |
| PFDA | 9.09 | | | ng/L | 8.00 | | 114 | 71-129 | | |
| PFUnA | 8.73 | | | ng/L | 8.00 | | 109 | 69-133 | | |
| PFDaA | 8.55 | | | ng/L | 8.00 | | 107 | 72-134 | | |
| PFTTrDA | 9.34 | | | ng/L | 8.00 | | 117 | 65-144 | | |
| PFTeDA | 8.45 | | | ng/L | 8.00 | | 106 | 71-132 | | |
| PFBS | 7.53 | | | ng/L | 7.08 | | 106 | 72-130 | | |
| PFPeS | 8.19 | | | ng/L | 7.52 | | 109 | 71-127 | | |
| PFHxS | 7.67 | | | ng/L | 7.32 | | 105 | 68-131 | | |
| PFFHpS | 7.93 | | | ng/L | 7.64 | | 104 | 69-134 | | |
| PFOS | 7.81 | | | ng/L | 7.44 | | 105 | 65-140 | | |
| PFNS | 7.96 | | | ng/L | 7.68 | | 104 | 69-127 | | |
| PFDS | 8.47 | | | ng/L | 7.72 | | 110 | 53-142 | | |
| 4:2FTS | 32.4 | | | ng/L | 30.0 | | 108 | 63-143 | | |
| 6:2FTS | 34.2 | | | ng/L | 30.4 | | 113 | 64-140 | | |
| 8:2FTS | 37.1 | | | ng/L | 30.7 | | 121 | 67-138 | | |
| PFOSA | 8.83 | | | ng/L | 8.00 | | 110 | 67-137 | | |
| NMeFOSAA | 8.45 MI4 | | | ng/L | 8.00 | | 106 | 65-136 | | |
| NEtFOSAA | 8.58 | | | ng/L | 8.00 | | 107 | 61-135 | | |
| HFPO-DA | 8.29 | | | ng/L | 8.00 | | 104 | 44-175 | | |
| ADONA | 8.27 | | | ng/L | 7.56 | | 109 | 61-169 | | |
| 9CI-PF3ONS | 8.26 | | | ng/L | 7.48 | | 110 | 62-140 | | |
| 11CI-PF3OUDS | 9.20 | | | ng/L | 7.56 | | 122 | 54-138 | | |
| Surrogate: 13C4-PFBA | 64.3 | | | ng/L | 64.0 | | 100 | 50-150 | | |
| Surrogate: 13C5-PFPEA | 32.1 | | | ng/L | 32.0 | | 100 | 50-150 | | |
| Surrogate: 13C5-PFHXA | 16.9 | | | ng/L | 16.0 | | 106 | 50-150 | | |
| Surrogate: 13C4-PFHXA | 14.3 | | | ng/L | 16.0 | | 89.5 | 50-150 | | |
| Surrogate: 13C8-PFOA | 16.0 | | | ng/L | 16.0 | | 99.8 | 50-150 | | |
| Surrogate: 13C9-PFNA | 8.08 | | | ng/L | 8.00 | | 101 | 50-150 | | |
| Surrogate: 13C6-PFDA | 7.71 | | | ng/L | 8.00 | | 96.4 | 50-150 | | |
| Surrogate: 13C7-PFUnA | 7.89 | | | ng/L | 8.00 | | 98.7 | 50-150 | | |
| Surrogate: 13C2-PFDOA | 7.67 | | | ng/L | 8.00 | | 95.9 | 50-150 | | |
| Surrogate: 13C2-PFTEDA | 8.16 | | | ng/L | 8.00 | | 102 | 50-150 | | |
| Surrogate: 13C3-PFBS | 15.1 | | | ng/L | 16.0 | | 94.1 | 50-150 | | |
| Surrogate: 13C3-PFHXS | 16.0 | | | ng/L | 16.0 | | 99.8 | 50-150 | | |
| Surrogate: 13C8-PFOS | 16.0 | | | ng/L | 16.0 | | 99.8 | 50-150 | | |
| Surrogate: 13C2-4:2FTS | 35.4 | | | ng/L | 32.0 | | 111 | 50-150 | | |
| Surrogate: 13C2-6:2FTS | 30.3 | | | ng/L | 32.0 | | 94.8 | 50-150 | | |
| Surrogate: 13C2-8:2FTS | 61.2 S2 | | | ng/L | 32.0 | | 191 | 50-150 | | |
| Surrogate: 13C8-PFOA | 13.8 | | | ng/L | 16.0 | | 86.3 | 50-150 | | |
| Surrogate: D3-NMEFOSAA | 29.9 | | | ng/L | 32.0 | | 93.5 | 50-150 | | |
| Surrogate: D5-NETFOSAA | 29.4 | | | ng/L | 32.0 | | 91.9 | 50-150 | | |

Fibertec Environmental Services
1914 Holloway Drive
Holt, MI 48842

Project: PFAS Testing
Project Number: A16177
Project Manager: Jacob Sutherland

Reported: 08/07/2023 10:44

Quality Control (Continued)

Per- and Polyfluoroalkyl Substances (Continued)

| Analyte | Result/ Qual | PQL | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|-------------------------------|--------------|-----|-----|-------|---|---------------|------|-------------|--------|-----------|
| LCS (BCG0557-BS1) | | | | | Prepared: 07/26/23 11:30 Analyzed: 07/28/23 17:08 | | | | | |
| Surrogate: 13C3-HFPO-DA | 60.6 | | | ng/L | 64.0 | | 94.7 | 50-150 | | |
| LCS Dup (BCG0557-BSD1) | | | | | Prepared: 07/26/23 11:30 Analyzed: 07/28/23 17:20 | | | | | |
| PFBA | 34.5 | | | ng/L | 32.0 | | 108 | 73-129 | 0.337 | 30 |
| PFPeA | 17.5 | | | ng/L | 16.0 | | 109 | 72-129 | 0.0739 | 30 |
| PFHxA | 9.44 | | | ng/L | 8.00 | | 118 | 72-129 | 9.03 | 30 |
| PFFHpA | 10.0 | | | ng/L | 8.00 | | 125 | 72-130 | 2.04 | 30 |
| PFOA | 9.09 | | | ng/L | 8.00 | | 114 | 71-133 | 5.91 | 30 |
| PFNA | 8.60 | | | ng/L | 8.00 | | 108 | 69-130 | 0.781 | 30 |
| PFDA | 9.07 | | | ng/L | 8.00 | | 113 | 71-129 | 0.233 | 30 |
| PFUnA | 8.91 | | | ng/L | 8.00 | | 111 | 69-133 | 2.00 | 30 |
| PFDaA | 9.01 | | | ng/L | 8.00 | | 113 | 72-134 | 5.24 | 30 |
| PFTTrDA | 9.67 | | | ng/L | 8.00 | | 121 | 65-144 | 3.44 | 30 |
| PFTeDA | 8.54 | | | ng/L | 8.00 | | 107 | 71-132 | 1.04 | 30 |
| PFBS | 7.94 | | | ng/L | 7.08 | | 112 | 72-130 | 5.29 | 30 |
| PFPeS | 8.36 | | | ng/L | 7.52 | | 111 | 71-127 | 2.00 | 30 |
| PFHxS | 7.87 | | | ng/L | 7.32 | | 108 | 68-131 | 2.61 | 30 |
| PFFHpS | 8.33 | | | ng/L | 7.64 | | 109 | 69-134 | 4.87 | 30 |
| PFOS | 7.69 | | | ng/L | 7.44 | | 103 | 65-140 | 1.55 | 30 |
| PFNS | 8.09 | | | ng/L | 7.68 | | 105 | 69-127 | 1.55 | 30 |
| PFDS | 7.98 | | | ng/L | 7.72 | | 103 | 53-142 | 5.94 | 30 |
| 4:2FTS | 34.8 | | | ng/L | 30.0 | | 116 | 63-143 | 7.31 | 30 |
| 6:2FTS | 34.1 | | | ng/L | 30.4 | | 112 | 64-140 | 0.446 | 30 |
| 8:2FTS | 34.7 | | | ng/L | 30.7 | | 113 | 67-138 | 6.54 | 30 |
| PFOSA | 8.45 | | | ng/L | 8.00 | | 106 | 67-137 | 4.42 | 30 |
| NMeFOSAA | 8.21 MI4 | | | ng/L | 8.00 | | 103 | 65-136 | 2.85 | 30 |
| NEtFOSAA | 8.67 | | | ng/L | 8.00 | | 108 | 61-135 | 1.01 | 30 |
| HFPO-DA | 8.28 | | | ng/L | 8.00 | | 103 | 44-175 | 0.0957 | 30 |
| ADONA | 8.67 | | | ng/L | 7.56 | | 115 | 61-169 | 4.73 | 30 |
| 9CI-PF3ONS | 8.36 | | | ng/L | 7.48 | | 112 | 62-140 | 1.20 | 30 |
| 11CI-PF3OUDS | 9.32 | | | ng/L | 7.56 | | 123 | 54-138 | 1.27 | 30 |
| Surrogate: 13C4-PFBA | 66.3 | | | ng/L | 64.0 | | 104 | 50-150 | | |
| Surrogate: 13C5-PFPEA | 30.6 | | | ng/L | 32.0 | | 95.6 | 50-150 | | |
| Surrogate: 13C5-PFHXA | 15.7 | | | ng/L | 16.0 | | 98.3 | 50-150 | | |
| Surrogate: 13C4-PFHFA | 13.8 | | | ng/L | 16.0 | | 86.2 | 50-150 | | |
| Surrogate: 13C8-PFOA | 16.0 | | | ng/L | 16.0 | | 99.9 | 50-150 | | |
| Surrogate: 13C9-PFNA | 8.45 | | | ng/L | 8.00 | | 106 | 50-150 | | |
| Surrogate: 13C6-PFDA | 7.97 | | | ng/L | 8.00 | | 99.6 | 50-150 | | |
| Surrogate: 13C7-PFUnA | 7.79 | | | ng/L | 8.00 | | 97.3 | 50-150 | | |
| Surrogate: 13C2-PFDOA | 7.82 | | | ng/L | 8.00 | | 97.8 | 50-150 | | |
| Surrogate: 13C2-PFTEDA | 8.74 | | | ng/L | 8.00 | | 109 | 50-150 | | |
| Surrogate: 13C3-PFBS | 16.2 | | | ng/L | 16.0 | | 101 | 50-150 | | |
| Surrogate: 13C3-PFHXS | 16.3 | | | ng/L | 16.0 | | 102 | 50-150 | | |
| Surrogate: 13C8-PFOS | 15.7 | | | ng/L | 16.0 | | 98.0 | 50-150 | | |
| Surrogate: 13C2-4:2FTS | 36.8 | | | ng/L | 32.0 | | 115 | 50-150 | | |
| Surrogate: 13C2-6:2FTS | 31.8 | | | ng/L | 32.0 | | 99.4 | 50-150 | | |
| Surrogate: 13C2-8:2FTS | 47.7 | | | ng/L | 32.0 | | 149 | 50-150 | | |
| Surrogate: 13C8-PFOSA | 13.1 | | | ng/L | 16.0 | | 81.8 | 50-150 | | |
| Surrogate: D3-NMEFOSAA | 27.7 | | | ng/L | 32.0 | | 86.4 | 50-150 | | |
| Surrogate: D5-NETFOSAA | 26.7 | | | ng/L | 32.0 | | 83.3 | 50-150 | | |

Fibertec Environmental Services
1914 Holloway Drive
Holt, MI 48842

Project: PFAS Testing
Project Number: A16177
Project Manager: Jacob Sutherland

Reported: 08/07/2023 10:44

Quality Control (Continued)

Per- and Polyfluoroalkyl Substances (Continued)

| Analyte | Result/ Qual | PQL | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---------------------------------|--------------|-----|-----|-------|---|---------------|------|-------------|-----|-----------|
| LCS Dup (BCG0557-BSD1) | | | | | Prepared: 07/26/23 11:30 Analyzed: 07/28/23 17:20 | | | | | |
| Surrogate: 13C3-HFPO-DA | 57.5 | | | ng/L | 64.0 | | 89.9 | 50-150 | | |
| MRL Check (BCG0557-MRL1) | | | | | Prepared: 07/26/23 11:30 Analyzed: 07/28/23 17:33 | | | | | |
| PFBA | 6.97 | | | ng/L | 6.40 | | 109 | 73-129 | | |
| PFPeA | 3.36 | | | ng/L | 3.20 | | 105 | 72-129 | | |
| PFHxA | 1.80 | | | ng/L | 1.60 | | 112 | 72-129 | | |
| PFFHpA | 1.81 | | | ng/L | 1.60 | | 113 | 72-130 | | |
| PFOA | 1.69 | | | ng/L | 1.60 | | 106 | 71-133 | | |
| PFNA | 1.58 | | | ng/L | 1.60 | | 98.7 | 69-130 | | |
| PFDA | 1.51 | | | ng/L | 1.60 | | 94.6 | 71-129 | | |
| PFUnA | 1.57 | | | ng/L | 1.60 | | 98.2 | 69-133 | | |
| PFDaA | 1.62 | | | ng/L | 1.60 | | 101 | 72-134 | | |
| PFTTrDA | 1.79 | | | ng/L | 1.60 | | 112 | 65-144 | | |
| PFTeDA | 1.54 | | | ng/L | 1.60 | | 96.1 | 71-132 | | |
| PFBS | 1.36 | | | ng/L | 1.42 | | 95.9 | 72-130 | | |
| PFPeS | 1.63 | | | ng/L | 1.50 | | 109 | 71-127 | | |
| PFHxS | 1.53 | | | ng/L | 1.46 | | 104 | 68-131 | | |
| PFFHpS | 1.60 | | | ng/L | 1.53 | | 104 | 69-134 | | |
| PFOS | 1.62 | | | ng/L | 1.49 | | 109 | 65-140 | | |
| PFNS | 1.53 | | | ng/L | 1.54 | | 99.9 | 69-127 | | |
| PFDS | 1.52 | | | ng/L | 1.54 | | 98.5 | 53-142 | | |
| 4:2FTS | 6.60 | | | ng/L | 6.00 | | 110 | 63-143 | | |
| 6:2FTS | 6.39 | | | ng/L | 6.08 | | 105 | 64-140 | | |
| 8:2FTS | 5.69 | | | ng/L | 6.14 | | 92.5 | 67-138 | | |
| PFOSA | 1.48 , J | | | ng/L | 1.60 | | 92.3 | 67-137 | | |
| NMeFOSAA | 1.70 MI4 | | | ng/L | 1.60 | | 106 | 65-136 | | |
| NEtFOSAA | 1.62 MI4 | | | ng/L | 1.60 | | 102 | 61-135 | | |
| HFPO-DA | 1.41 , J | | | ng/L | 1.60 | | 88.0 | 44-175 | | |
| ADONA | 1.53 , J | | | ng/L | 1.51 | | 101 | 61-169 | | |
| 9CI-PF3ONS | 1.36 , J | | | ng/L | 1.50 | | 91.1 | 62-140 | | |
| 11CI-PF3OUDS | 1.66 | | | ng/L | 1.51 | | 110 | 54-138 | | |
| Surrogate: 13C4-PFBA | 63.0 | | | ng/L | 64.0 | | 98.4 | 50-150 | | |
| Surrogate: 13C5-PFPEA | 31.7 | | | ng/L | 32.0 | | 99.0 | 50-150 | | |
| Surrogate: 13C5-PFHXA | 16.9 | | | ng/L | 16.0 | | 106 | 50-150 | | |
| Surrogate: 13C4-PFHXA | 15.0 | | | ng/L | 16.0 | | 93.6 | 50-150 | | |
| Surrogate: 13C8-PFOA | 15.4 | | | ng/L | 16.0 | | 96.3 | 50-150 | | |
| Surrogate: 13C9-PFNA | 8.01 | | | ng/L | 8.00 | | 100 | 50-150 | | |
| Surrogate: 13C6-PFDA | 7.67 | | | ng/L | 8.00 | | 95.8 | 50-150 | | |
| Surrogate: 13C7-PFUnA | 8.64 | | | ng/L | 8.00 | | 108 | 50-150 | | |
| Surrogate: 13C2-PFDOA | 7.91 | | | ng/L | 8.00 | | 98.8 | 50-150 | | |
| Surrogate: 13C2-PFTEDA | 8.78 | | | ng/L | 8.00 | | 110 | 50-150 | | |
| Surrogate: 13C3-PFBS | 15.6 | | | ng/L | 16.0 | | 97.3 | 50-150 | | |
| Surrogate: 13C3-PFHXS | 15.2 | | | ng/L | 16.0 | | 94.9 | 50-150 | | |
| Surrogate: 13C8-PFOS | 14.7 | | | ng/L | 16.0 | | 91.7 | 50-150 | | |
| Surrogate: 13C2-4:2FTS | 31.2 | | | ng/L | 32.0 | | 97.5 | 50-150 | | |
| Surrogate: 13C2-6:2FTS | 31.3 | | | ng/L | 32.0 | | 97.8 | 50-150 | | |
| Surrogate: 13C2-8:2FTS | 50.4 S2 | | | ng/L | 32.0 | | 157 | 50-150 | | |
| Surrogate: 13C8-PFOA | 11.5 | | | ng/L | 16.0 | | 71.9 | 50-150 | | |
| Surrogate: D3-NMEFOSAA | 27.6 | | | ng/L | 32.0 | | 86.4 | 50-150 | | |
| Surrogate: D5-NETFOSAA | 26.6 | | | ng/L | 32.0 | | 83.2 | 50-150 | | |

Fibertec Environmental Services
1914 Holloway Drive
Holt, MI 48842

Project: PFAS Testing
Project Number: A16177
Project Manager: Jacob Sutherland

Reported: 08/07/2023 10:44

Quality Control
(Continued)

Per- and Polyfluoroalkyl Substances (Continued)

| Analyte | Result/ Qual | PQL | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---------------------------------|--------------|-----|-----|-------|---|---------------|------|-------------|-----|-----------|
| MRL Check (BCG0557-MRL1) | | | | | Prepared: 07/26/23 11:30 Analyzed: 07/28/23 17:33 | | | | | |
| Surrogate: 13C3-HFPO-DA | 60.9 | | | ng/L | 64.0 | | 95.1 | 50-150 | | |

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Reported: 08/07/2023 10:44

Notes and Definitions

| Item | Definition |
|---|---|
| J | Estimated value |
| MI4 | Manual integration, peak unsplit |
| MI6 | Manual integration, wrong peak integrated |
| S2 | Surrogate recovered above the upper control limit |
| U | Not detected |
| Dry | Sample results reported on a dry weight basis. |
| MDL | Method Detection Limit (only displays if reported to the MDL) |
| ND | Analyte NOT DETECTED at or above the reporting limit. |
| DF | Dilution Factor |
| DL | Detection Limit |
| RPD | Relative Percent Difference |
| %REC | Percent Recovery |
| Source | Sample that was matrix spiked or duplicated. |
| PQL, Practical Quantitation Limit = Method Reporting Limit (MRL). | |

Fibertec Environmental Services
1914 Holloway Drive
Holt, MI 48842

Project: PFAS Testing
Project Number: A16177
Project Manager: Jacob Sutherland

Reported: 08/07/2023 10:44



WORK ORDER

23G0165

Printed: 08/07/2023 10:44 am

Project: PFAS Testing
Project Number: A16177
Project Manager: Chue Moua
PO Number: NA

Report To:

Fibertec Environmental Services
Jacob Sutherland
1914 Holloway Drive
Holt, MI 48842
Phone: (517) 699-0345
Fax: (517) 699-0388

Invoice To:

Fibertec Environmental Services
Kathy Jones
1914 Holloway Drive
Holt, MI 48842
Phone: (517) 699-0345
Fax: (517) 699-0388

Date Received: 07/18/2023 09:40 AM
Date Due: 08/01/2023 (10.00 day TAT)

Logged In By: Sophia Herrera
Received By: Sophia Herrera

| Analysis | Comments |
|--|------------------|
| 23G0165-01 MW-7D [Water] Sampled 7/13/2023 11:30:00AM | |
| B-15 DOD | 28-compound list |
| 23G0165-02 MW-3S [Water] Sampled 7/13/2023 1:43:00PM | |
| B-15 DOD | 28-compound list |
| 23G0165-03 WT BLANK [Water] Sampled 7/13/2023 4:16:00PM | |
| Sample Comments: DI WATER | |
| B-15 DOD | 28-compound list |
| 23G0165-04 PUMP BLANK [Water] Sampled 7/13/2023 4:29:00PM | |
| Sample Comments: DI WATER | |
| B-15 DOD | 28-compound list |

23G0165

Sample Receipt Log

Default Cooler

Samples Received at: **1.3°C**

| | | | |
|--|-----|---|-----|
| Custody Seals | No | Were all containers sealed in separate bags? | Yes |
| Containers Intact | Yes | Did all containers arrive in good condition? | Yes |
| COC/Labels Agree | Yes | Correct containers/preserv. for tests indicated? | Yes |
| Preservation Confirmed | Yes | Sufficient volume sent for tests requested? | No |
| Received On Ice | Yes | Were bubbles absent in volatile samples? | No |
| Was a chain of custody received? | Yes | Sufficient remaining holding time for analyses? | No |
| COCs complete/signed in the appropriate places? | Yes | pH of non-VOA preserved containers documented? | No |
| Sample labels complete? Sample ID, date/time, etc. | Yes | Unpreserved vials received for VOA analysis? | No |
| Did all container labels agree with COCs? | Yes | If "yes", are unpreserved VOA vials noted on Work | No |



Analytical Laboratory
1914 Holloway Drive
Holt, MI 48842
Phone: 517 699 0345
Fax: 517 699 0388
email: lab@fibertec.us

8660 S. Mackinaw Trail
Cadillac, MI 49601
Phone: 231 775 8368
Fax: 231 775 8584

Industrial Hygiene Services, Inc.
1914 Holloway Drive
Holt, MI 48842
Phone: 517 699 0345
Fax: 517 699 0382
email: asbestos@fibertecihs.com

Geoprobe
11766 E. Grand River Rd.
Brighton, MI 48116
Phone: 810 220 3300
Fax: 810 220 3311

Chain of Custody #
221198-S
PAGE 1 of 1

2360145 Temp IRB
3.9
1.3

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--|------|----------|--------------------------|------------------------------------|-----------------|-----------------------|-------------|--|------|----|----------------|--|---------|--|--|--|--|----------------------------------|-------------|----------|--|--|--------------|--|
| Client Name: Fibertec | | | | MATRIX (SEE RIGHT CORNER FOR CODE) | # OF CONTAINERS | PFAS (537.1 Modified) | PARAMETERS | | | | | | | | | | | | Matrix Code | | | | Deliverables | |
| Contact Person: Jacob Sutherlund | | | | | | | HOLD SAMPLE | S | Soil | GW | Ground Water | | Level 2 | | | | | | | | | | | |
| Project Name/ Number: A16177 | | | | | | | | A | Air | SW | Surface Water | | Level 3 | | | | | | | | | | | |
| Email distribution list: lab@fibertec.us | | | | | | | | O | Oil | WW | Waste Water | | Level 4 | | | | | | | | | | | |
| Quote# | | | | | | | | P | Wipe | X | Other: Specify | | EDD | | | | | | | | | | | |
| Purchase Order# | | | | Remarks: | | | | | | | | | | | | | | | | | | | | |
| Date | Time | Sample # | Client Sample Descriptor | | | | | | | | | | | | | | | | | | | | | |
| 7/13/23 | 1130 | | MW-7D | GW | 3 | ✓ | | | | | | | | | | | | | | | | | | |
| 7/13/23 | 1343 | | MW-3S | GW | 3 | ✓ | | | | | | | | | | | | | | | | | | |
| 7/13/23 | 1616 | | WT Blank | W | 3 | ✓ | | | | | | | | | | | | | | DI Water | | | | |
| 7/13/23 | 1629 | | Pump Blank | W | 3 | ✓ | | | | | | | | | | | | | | DI Water | | | | |
| Comments: | | | | | | | | | | | | | | | | | | | | | | | | |
| Sampled/Relinquished By: | | | | Date/ Time | | | | Received By: | | | | | | | | | | | | | | | | |
| Relinquished By: | | | | Date/ Time | | | | Received By: | | | | | | | | | | | | | | | | |
| Relinquished By: | | | | Date/ Time | | | | Received By Laboratory: <i>Yuriko Rodriguez</i> 7-18-23 9:40 am | | | | | | | | | | | | | | | | |
| Turnaround Time ALL RESULTS WILL BE SENT BY THE END OF THE BUSINESS DAY | | | | | | | | | | | | | | | | | | LAB USE ONLY | | | | | | |
| ____ 1 bus. day ____ 2 bus. days ____ 3 bus. days ____ 4 bus. days | | | | | | | | | | | | | | | | | | Fibertec project number: | | | | | | |
| ____ 5-7 bus. days (standard) Other (specify time/date requirement): _____ | | | | | | | | | | | | | | | | | | Temperature upon receipt at Lab: | | | | | | |
| Please see back for terms and conditions | | | | | | | | | | | | | | | | | | | | | | | | |