

 **ANALYTICAL REPORT****PREPARED FOR**

Attn: Russell Howard  
MN Dept of Military Affairs Facilities Management Office  
15000 Highway 115  
Camp Ripley Building 2-1  
Little Falls, Minnesota 56345-4173

Generated 11/29/2022 10:13:55 AM

**JOB DESCRIPTION**

PFAS in DW by EPA 537.1

**JOB NUMBER**

410-105518-1

## Job Notes

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

## Authorization



Generated  
11/29/2022 10:13:55 AM

Authorized for release by  
Nicole Brown, Project Manager  
[Nicole.Brown@et.eurofinsus.com](mailto:Nicole.Brown@et.eurofinsus.com)  
(717)471-3265

## Compliance Statement

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

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

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

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

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

This report shall not be reproduced except in full, without the written approval of the laboratory.

**WARRANTY AND LIMITS OF LIABILITY** - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. The foregoing express warranty is exclusive and is given in lieu of all other warranties, expressed or implied, except as otherwise agreed. We disclaim any other warranties, expressed or implied, including a warranty of fitness for particular purpose and warranty of merchantability. In no event shall Eurofins Lancaster Laboratories Environmental, LLC be liable for indirect, special, consequential, or incidental damages including, but not limited to, damages for loss of profit or goodwill regardless of (A) the negligence (either sole or concurrent) of Eurofins Lancaster Laboratories Environmental and (B) whether Eurofins Lancaster Laboratories Environmental has been informed of the possibility of such damages. We accept no legal responsibility for the purposes for which the client uses the test results. Except as otherwise agreed, no purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.



---



# Table of Contents

Cover Page . . . . .	1
Table of Contents . . . . .	4
Definitions/Glossary . . . . .	5
Case Narrative . . . . .	6
Detection Summary . . . . .	7
Client Sample Results . . . . .	10
Surrogate Summary . . . . .	23
QC Sample Results . . . . .	24
QC Association Summary . . . . .	31
Lab Chronicle . . . . .	33
Certification Summary . . . . .	37
Method Summary . . . . .	38
Sample Summary . . . . .	39
Chain of Custody . . . . .	40
Receipt Checklists . . . . .	42

# Definitions/Glossary

Client: MN Dept of Military Affairs Facilities Management Office  
Project/Site: PFAS in DW by EPA 537.1

Job ID: 410-105518-1

## Qualifiers

### LCMS

Qualifier	Qualifier Description
B	Blank contamination: The analyte was detected above one-half the reporting limit in an associated blank.
cn	Refer to Case Narrative for further detail
E	Result exceeded calibration range.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
M	Manual integrated compound.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

# Case Narrative

Client: MN Dept of Military Affairs Facilities Management Office  
Project/Site: PFAS in DW by EPA 537.1

Job ID: 410-105518-1

---

## Job ID: 410-105518-1

---

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

### Narrative

---

#### Job Narrative 410-105518-1

### Receipt

The samples were received on 11/11/2022 10:10 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.5°C

### PFAS

Method 537.1\_DW: The following target compound(s): Perfluorohexanoic acid and Perfluoroheptanoic acid was detected in the method blank associated with the following samples: Monticello 11-09 (410-105518-11), FB-05 (410-105518-12), Anoka 11-09 (410-105518-13), Blaine 11-09 (410-105518-14) and Bloomington 11-09 (410-105518-20). Because the same target compound(s) was not detected in the sample(s), the result(s) is reported.

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

# Detection Summary

Client: MN Dept of Military Affairs Facilities Management Office  
Project/Site: PFAS in DW by EPA 537.1

Job ID: 410-105518-1

## Client Sample ID: Wadena 11-07

Lab Sample ID: 410-105518-1

No Detections.

## Client Sample ID: FB-03

Lab Sample ID: 410-105518-2

No Detections.

## Client Sample ID: Thief River Falls 11-07

Lab Sample ID: 410-105518-3

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	0.84	J M	1.8	1.3	0.45	ng/L	1		EPA 537.1	Total/NA
Perfluoroheptanoic acid	1.1	J	1.8	1.3	0.45	ng/L	1		EPA 537.1	Total/NA
Perfluorooctanoic acid	0.66	J M	1.8	1.3	0.45	ng/L	1		EPA 537.1	Total/NA

## Client Sample ID: Crookston 11-07

Lab Sample ID: 410-105518-4

No Detections.

## Client Sample ID: Moorhead 11-07

Lab Sample ID: 410-105518-5

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	1.6	J	1.8	1.4	0.45	ng/L	1		EPA 537.1	Total/NA
Perfluoroheptanoic acid	0.64	J	1.8	1.4	0.45	ng/L	1		EPA 537.1	Total/NA
Perfluorooctanoic acid	0.59	J M	1.8	1.4	0.45	ng/L	1		EPA 537.1	Total/NA

## Client Sample ID: Pipestone 11-08

Lab Sample ID: 410-105518-6

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid	2.4		1.7	1.2	0.41	ng/L	1		EPA 537.1	Total/NA
Perfluorohexanesulfonic acid	0.61	J	1.7	1.2	0.41	ng/L	1		EPA 537.1	Total/NA
Perfluorooctanesulfonic acid	0.45	J	1.7	1.2	0.41	ng/L	1		EPA 537.1	Total/NA

## Client Sample ID: FB-04

Lab Sample ID: 410-105518-7

No Detections.

## Client Sample ID: Willmar 11-08

Lab Sample ID: 410-105518-8

No Detections.

## Client Sample ID: St. Cloud 11-08

Lab Sample ID: 410-105518-9

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	0.86	J	1.8	1.3	0.44	ng/L	1		EPA 537.1	Total/NA
Perfluoroheptanoic acid	0.74	J	1.8	1.3	0.44	ng/L	1		EPA 537.1	Total/NA
Perfluorooctanoic acid	0.65	J M	1.8	1.3	0.44	ng/L	1		EPA 537.1	Total/NA
Perfluorobutanesulfonic acid	0.49	J	1.8	1.3	0.44	ng/L	1		EPA 537.1	Total/NA

## Client Sample ID: FD-04

Lab Sample ID: 410-105518-10

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	0.86	J	1.9	1.4	0.47	ng/L	1		EPA 537.1	Total/NA
Perfluoroheptanoic acid	0.73	J	1.9	1.4	0.47	ng/L	1		EPA 537.1	Total/NA
Perfluorooctanoic acid	0.63	J M	1.9	1.4	0.47	ng/L	1		EPA 537.1	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Environment Testing, LLC

# Detection Summary

Client: MN Dept of Military Affairs Facilities Management Office  
Project/Site: PFAS in DW by EPA 537.1

Job ID: 410-105518-1

## Client Sample ID: Monticello 11-09

## Lab Sample ID: 410-105518-11

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid	0.54	J	1.8	1.3	0.45	ng/L	1		EPA 537.1	Total/NA
Perfluorohexanesulfonic acid	3.2		1.8	1.3	0.45	ng/L	1		EPA 537.1	Total/NA

## Client Sample ID: FB-05

## Lab Sample ID: 410-105518-12

No Detections.

## Client Sample ID: Anoka 11-09

## Lab Sample ID: 410-105518-13

No Detections.

## Client Sample ID: Blaine 11-09

## Lab Sample ID: 410-105518-14

No Detections.

## Client Sample ID: Stillwater 11-09

## Lab Sample ID: 410-105518-15

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	0.76	J	1.8	1.3	0.44	ng/L	1		EPA 537.1	Total/NA
Perfluorooctanoic acid	1.2	J	1.8	1.3	0.44	ng/L	1		EPA 537.1	Total/NA
Perfluorobutanesulfonic acid	0.74	J	1.8	1.3	0.44	ng/L	1		EPA 537.1	Total/NA
Perfluorohexanesulfonic acid	0.85	J	1.8	1.3	0.44	ng/L	1		EPA 537.1	Total/NA
Perfluorooctanesulfonic acid	0.56	J	1.8	1.3	0.44	ng/L	1		EPA 537.1	Total/NA

## Client Sample ID: Hastings 11-09

## Lab Sample ID: 410-105518-16

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	3.8		1.8	1.4	0.46	ng/L	1		EPA 537.1	Total/NA
Perfluoroheptanoic acid	0.99	J	1.8	1.4	0.46	ng/L	1		EPA 537.1	Total/NA
Perfluorooctanoic acid	17		1.8	1.4	0.46	ng/L	1		EPA 537.1	Total/NA
Perfluorobutanesulfonic acid	1.6	J	1.8	1.4	0.46	ng/L	1		EPA 537.1	Total/NA
Perfluorohexanesulfonic acid	2.2		1.8	1.4	0.46	ng/L	1		EPA 537.1	Total/NA
Perfluorooctanesulfonic acid	2.1		1.8	1.4	0.46	ng/L	1		EPA 537.1	Total/NA

## Client Sample ID: Cottage Grove 11-09

## Lab Sample ID: 410-105518-17

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	15		1.8	1.3	0.44	ng/L	1		EPA 537.1	Total/NA
Perfluoroheptanoic acid	2.0		1.8	1.3	0.44	ng/L	1		EPA 537.1	Total/NA
Perfluorooctanoic acid	15		1.8	1.3	0.44	ng/L	1		EPA 537.1	Total/NA
Perfluorobutanesulfonic acid	18		1.8	1.3	0.44	ng/L	1		EPA 537.1	Total/NA
Perfluorohexanesulfonic acid	8.0		1.8	1.3	0.44	ng/L	1		EPA 537.1	Total/NA
Perfluorooctanesulfonic acid	0.89	J	1.8	1.3	0.44	ng/L	1		EPA 537.1	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Environment Testing, LLC

# Detection Summary

Client: MN Dept of Military Affairs Facilities Management Office  
Project/Site: PFAS in DW by EPA 537.1

Job ID: 410-105518-1

## Client Sample ID: IGH 11-09

Lab Sample ID: 410-105518-18

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanoic acid	0.54	J M	1.7	1.3	0.44	ng/L	1		EPA 537.1	Total/NA

## Client Sample ID: St. Paul 11-09

Lab Sample ID: 410-105518-19

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	1.5	J	1.7	1.3	0.43	ng/L	1		EPA 537.1	Total/NA
Perfluoroheptanoic acid	1.1	J	1.7	1.3	0.43	ng/L	1		EPA 537.1	Total/NA
Perfluorooctanoic acid	1.2	J	1.7	1.3	0.43	ng/L	1		EPA 537.1	Total/NA
Perfluorobutanesulfonic acid	1.1	J	1.7	1.3	0.43	ng/L	1		EPA 537.1	Total/NA
Perfluorohexanesulfonic acid	0.62	J M	1.7	1.3	0.43	ng/L	1		EPA 537.1	Total/NA
Perfluorooctanesulfonic acid	0.63	J	1.7	1.3	0.43	ng/L	1		EPA 537.1	Total/NA

## Client Sample ID: Bloomington 11-09

Lab Sample ID: 410-105518-20

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanoic acid	0.45	J	1.8	1.3	0.45	ng/L	1		EPA 537.1	Total/NA

## Client Sample ID: Minneapolis 11-09

Lab Sample ID: 410-105518-21

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	1.1	J	1.7	1.3	0.43	ng/L	1		EPA 537.1	Total/NA
Perfluoroheptanoic acid	0.56	J	1.7	1.3	0.43	ng/L	1		EPA 537.1	Total/NA
Perfluorooctanoic acid	0.80	J M	1.7	1.3	0.43	ng/L	1		EPA 537.1	Total/NA
Perfluorobutanesulfonic acid	0.89	J	1.7	1.3	0.43	ng/L	1		EPA 537.1	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Environment Testing, LLC

# Client Sample Results

Client: MN Dept of Military Affairs Facilities Management Office  
 Project/Site: PFAS in DW by EPA 537.1

Job ID: 410-105518-1

**Client Sample ID: Wadena 11-07**

**Lab Sample ID: 410-105518-1**

**Date Collected: 11/07/22 07:39**

**Matrix: Drinking Water**

**Date Received: 11/11/22 10:10**

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

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.4		1.8	1.4	0.46	ng/L		11/16/22 04:29	1
Perfluoroheptanoic acid	<1.4		1.8	1.4	0.46	ng/L		11/16/22 04:29	1
Perfluorooctanoic acid	<1.4		1.8	1.4	0.46	ng/L		11/16/22 04:29	1
Perfluorononanoic acid	<1.4		1.8	1.4	0.46	ng/L		11/16/22 04:29	1
Perfluorodecanoic acid	<1.4		1.8	1.4	0.46	ng/L		11/16/22 04:29	1
Perfluorotridecanoic acid	<1.4		1.8	1.4	0.46	ng/L		11/16/22 04:29	1
Perfluorotetradecanoic acid	<1.4		1.8	1.4	0.46	ng/L		11/16/22 04:29	1
Perfluorobutanesulfonic acid	<1.4		1.8	1.4	0.46	ng/L		11/16/22 04:29	1
Perfluorohexanesulfonic acid	<1.4		1.8	1.4	0.46	ng/L		11/16/22 04:29	1
Perfluorooctanesulfonic acid	<1.4		1.8	1.4	0.46	ng/L		11/16/22 04:29	1
NEtFOSAA	<1.4		1.8	1.4	0.46	ng/L		11/16/22 04:29	1
NMeFOSAA	<1.4		1.8	1.4	0.46	ng/L		11/16/22 04:29	1
Perfluoroundecanoic acid	<1.4		1.8	1.4	0.46	ng/L		11/16/22 04:29	1
Perfluorododecanoic acid	<1.4		1.8	1.4	0.46	ng/L		11/16/22 04:29	1
HFPODA	<1.4		1.8	1.4	0.46	ng/L		11/16/22 04:29	1
9CI-PF3ONS	<1.4		1.8	1.4	0.46	ng/L		11/16/22 04:29	1
11CI-PF3OUdS	<1.4		1.8	1.4	0.46	ng/L		11/16/22 04:29	1
DONA	<1.4		1.8	1.4	0.46	ng/L		11/16/22 04:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDA	81		70 - 130	11/14/22 13:11	11/16/22 04:29	1
13C2 PFHxA	104		70 - 130	11/14/22 13:11	11/16/22 04:29	1
13C3 HFPO-DA	94		70 - 130	11/14/22 13:11	11/16/22 04:29	1
d5-NEtFOSAA	77		70 - 130	11/14/22 13:11	11/16/22 04:29	1

**Client Sample ID: FB-03**

**Lab Sample ID: 410-105518-2**

**Date Collected: 11/07/22 07:39**

**Matrix: Drinking Water**

**Date Received: 11/11/22 10:10**

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

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.3		1.8	1.3	0.45	ng/L		11/16/22 04:52	1
Perfluoroheptanoic acid	<1.3		1.8	1.3	0.45	ng/L		11/16/22 04:52	1
Perfluorooctanoic acid	<1.3		1.8	1.3	0.45	ng/L		11/16/22 04:52	1
Perfluorononanoic acid	<1.3		1.8	1.3	0.45	ng/L		11/16/22 04:52	1
Perfluorodecanoic acid	<1.3		1.8	1.3	0.45	ng/L		11/16/22 04:52	1
Perfluorotridecanoic acid	<1.3		1.8	1.3	0.45	ng/L		11/16/22 04:52	1
Perfluorotetradecanoic acid	<1.3		1.8	1.3	0.45	ng/L		11/16/22 04:52	1
Perfluorobutanesulfonic acid	<1.3		1.8	1.3	0.45	ng/L		11/16/22 04:52	1
Perfluorohexanesulfonic acid	<1.3		1.8	1.3	0.45	ng/L		11/16/22 04:52	1
Perfluorooctanesulfonic acid	<1.3		1.8	1.3	0.45	ng/L		11/16/22 04:52	1
NEtFOSAA	<1.3		1.8	1.3	0.45	ng/L		11/16/22 04:52	1
NMeFOSAA	<1.3		1.8	1.3	0.45	ng/L		11/16/22 04:52	1
Perfluoroundecanoic acid	<1.3		1.8	1.3	0.45	ng/L		11/16/22 04:52	1
Perfluorododecanoic acid	<1.3		1.8	1.3	0.45	ng/L		11/16/22 04:52	1
HFPODA	<1.3		1.8	1.3	0.45	ng/L		11/16/22 04:52	1
9CI-PF3ONS	<1.3		1.8	1.3	0.45	ng/L		11/16/22 04:52	1
11CI-PF3OUdS	<1.3		1.8	1.3	0.45	ng/L		11/16/22 04:52	1
DONA	<1.3		1.8	1.3	0.45	ng/L		11/16/22 04:52	1

# Client Sample Results

Client: MN Dept of Military Affairs Facilities Management Office  
 Project/Site: PFAS in DW by EPA 537.1

Job ID: 410-105518-1

**Client Sample ID: FB-03**  
**Date Collected: 11/07/22 07:39**  
**Date Received: 11/11/22 10:10**

**Lab Sample ID: 410-105518-2**  
**Matrix: Drinking Water**

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDA	83		70 - 130	11/14/22 13:11	11/16/22 04:52	1
13C2 PFHxA	98		70 - 130	11/14/22 13:11	11/16/22 04:52	1
13C3 HFPO-DA	96		70 - 130	11/14/22 13:11	11/16/22 04:52	1
d5-NEtFOSAA	79		70 - 130	11/14/22 13:11	11/16/22 04:52	1

**Client Sample ID: Thief River Falls 11-07**  
**Date Collected: 11/07/22 10:40**  
**Date Received: 11/11/22 10:10**

**Lab Sample ID: 410-105518-3**  
**Matrix: Drinking Water**

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

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Perfluorohexanoic acid	0.84	J M	1.8	1.3	0.45	ng/L		11/16/22 05:03	1
Perfluoroheptanoic acid	1.1	J	1.8	1.3	0.45	ng/L		11/16/22 05:03	1
Perfluorooctanoic acid	0.66	J M	1.8	1.3	0.45	ng/L		11/16/22 05:03	1
Perfluorononanoic acid	<1.3		1.8	1.3	0.45	ng/L		11/16/22 05:03	1
Perfluorodecanoic acid	<1.3		1.8	1.3	0.45	ng/L		11/16/22 05:03	1
Perfluorotridecanoic acid	<1.3		1.8	1.3	0.45	ng/L		11/16/22 05:03	1
Perfluorotetradecanoic acid	<1.3		1.8	1.3	0.45	ng/L		11/16/22 05:03	1
Perfluorobutanesulfonic acid	<1.3		1.8	1.3	0.45	ng/L		11/16/22 05:03	1
Perfluorohexanesulfonic acid	<1.3		1.8	1.3	0.45	ng/L		11/16/22 05:03	1
Perfluorooctanesulfonic acid	<1.3		1.8	1.3	0.45	ng/L		11/16/22 05:03	1
NEtFOSAA	<1.3		1.8	1.3	0.45	ng/L		11/16/22 05:03	1
NMeFOSAA	<1.3		1.8	1.3	0.45	ng/L		11/16/22 05:03	1
Perfluoroundecanoic acid	<1.3		1.8	1.3	0.45	ng/L		11/16/22 05:03	1
Perfluorododecanoic acid	<1.3		1.8	1.3	0.45	ng/L		11/16/22 05:03	1
HFPODA	<1.3		1.8	1.3	0.45	ng/L		11/16/22 05:03	1
9CI-PF3ONS	<1.3		1.8	1.3	0.45	ng/L		11/16/22 05:03	1
11CI-PF3OUdS	<1.3		1.8	1.3	0.45	ng/L		11/16/22 05:03	1
DONA	<1.3		1.8	1.3	0.45	ng/L		11/16/22 05:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDA	99		70 - 130	11/14/22 13:11	11/16/22 05:03	1
13C2 PFHxA	100		70 - 130	11/14/22 13:11	11/16/22 05:03	1
13C3 HFPO-DA	94		70 - 130	11/14/22 13:11	11/16/22 05:03	1
d5-NEtFOSAA	98		70 - 130	11/14/22 13:11	11/16/22 05:03	1

**Client Sample ID: Crookston 11-07**  
**Date Collected: 11/07/22 11:40**  
**Date Received: 11/11/22 10:10**

**Lab Sample ID: 410-105518-4**  
**Matrix: Drinking Water**

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

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.4		1.8	1.4	0.45	ng/L		11/16/22 05:15	1
Perfluoroheptanoic acid	<1.4		1.8	1.4	0.45	ng/L		11/16/22 05:15	1
Perfluorooctanoic acid	<1.4		1.8	1.4	0.45	ng/L		11/16/22 05:15	1
Perfluorononanoic acid	<1.4		1.8	1.4	0.45	ng/L		11/16/22 05:15	1
Perfluorodecanoic acid	<1.4		1.8	1.4	0.45	ng/L		11/16/22 05:15	1
Perfluorotridecanoic acid	<1.4		1.8	1.4	0.45	ng/L		11/16/22 05:15	1
Perfluorotetradecanoic acid	<1.4		1.8	1.4	0.45	ng/L		11/16/22 05:15	1
Perfluorobutanesulfonic acid	<1.4		1.8	1.4	0.45	ng/L		11/16/22 05:15	1
Perfluorohexanesulfonic acid	<1.4		1.8	1.4	0.45	ng/L		11/16/22 05:15	1

# Client Sample Results

Client: MN Dept of Military Affairs Facilities Management Office  
 Project/Site: PFAS in DW by EPA 537.1

Job ID: 410-105518-1

**Client Sample ID: Crookston 11-07**

**Lab Sample ID: 410-105518-4**

**Date Collected: 11/07/22 11:40**

**Matrix: Drinking Water**

**Date Received: 11/11/22 10:10**

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

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Perfluorooctanesulfonic acid	<1.4		1.8	1.4	0.45	ng/L		11/16/22 05:15	1
NEtFOSAA	<1.4		1.8	1.4	0.45	ng/L		11/16/22 05:15	1
NMeFOSAA	<1.4		1.8	1.4	0.45	ng/L		11/16/22 05:15	1
Perfluoroundecanoic acid	<1.4		1.8	1.4	0.45	ng/L		11/16/22 05:15	1
Perfluorododecanoic acid	<1.4		1.8	1.4	0.45	ng/L		11/16/22 05:15	1
HFPODA	<1.4		1.8	1.4	0.45	ng/L		11/16/22 05:15	1
9CI-PF3ONS	<1.4		1.8	1.4	0.45	ng/L		11/16/22 05:15	1
11CI-PF3OUdS	<1.4		1.8	1.4	0.45	ng/L		11/16/22 05:15	1
DONA	<1.4		1.8	1.4	0.45	ng/L		11/16/22 05:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFDA	93		70 - 130				11/14/22 13:11	11/16/22 05:15	1
13C2 PFHxA	98		70 - 130				11/14/22 13:11	11/16/22 05:15	1
13C3 HFPO-DA	96		70 - 130				11/14/22 13:11	11/16/22 05:15	1
d5-NEtFOSAA	102		70 - 130				11/14/22 13:11	11/16/22 05:15	1

**Client Sample ID: Moorhead 11-07**

**Lab Sample ID: 410-105518-5**

**Date Collected: 11/07/22 14:15**

**Matrix: Drinking Water**

**Date Received: 11/11/22 10:10**

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

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Perfluorohexanoic acid	1.6	J	1.8	1.4	0.45	ng/L		11/16/22 05:26	1
Perfluoroheptanoic acid	0.64	J	1.8	1.4	0.45	ng/L		11/16/22 05:26	1
Perfluorooctanoic acid	0.59	J M	1.8	1.4	0.45	ng/L		11/16/22 05:26	1
Perfluorononanoic acid	<1.4		1.8	1.4	0.45	ng/L		11/16/22 05:26	1
Perfluorodecanoic acid	<1.4		1.8	1.4	0.45	ng/L		11/16/22 05:26	1
Perfluorotridecanoic acid	<1.4		1.8	1.4	0.45	ng/L		11/16/22 05:26	1
Perfluorotetradecanoic acid	<1.4		1.8	1.4	0.45	ng/L		11/16/22 05:26	1
Perfluorobutanesulfonic acid	<1.4		1.8	1.4	0.45	ng/L		11/16/22 05:26	1
Perfluorohexanesulfonic acid	<1.4		1.8	1.4	0.45	ng/L		11/16/22 05:26	1
Perfluorooctanesulfonic acid	<1.4		1.8	1.4	0.45	ng/L		11/16/22 05:26	1
NEtFOSAA	<1.4		1.8	1.4	0.45	ng/L		11/16/22 05:26	1
NMeFOSAA	<1.4		1.8	1.4	0.45	ng/L		11/16/22 05:26	1
Perfluoroundecanoic acid	<1.4		1.8	1.4	0.45	ng/L		11/16/22 05:26	1
Perfluorododecanoic acid	<1.4		1.8	1.4	0.45	ng/L		11/16/22 05:26	1
HFPODA	<1.4		1.8	1.4	0.45	ng/L		11/16/22 05:26	1
9CI-PF3ONS	<1.4		1.8	1.4	0.45	ng/L		11/16/22 05:26	1
11CI-PF3OUdS	<1.4		1.8	1.4	0.45	ng/L		11/16/22 05:26	1
DONA	<1.4		1.8	1.4	0.45	ng/L		11/16/22 05:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFDA	97		70 - 130				11/14/22 13:11	11/16/22 05:26	1
13C2 PFHxA	105		70 - 130				11/14/22 13:11	11/16/22 05:26	1
13C3 HFPO-DA	100		70 - 130				11/14/22 13:11	11/16/22 05:26	1
d5-NEtFOSAA	100		70 - 130				11/14/22 13:11	11/16/22 05:26	1

# Client Sample Results

Client: MN Dept of Military Affairs Facilities Management Office  
 Project/Site: PFAS in DW by EPA 537.1

Job ID: 410-105518-1

**Client Sample ID: Pipestone 11-08**

**Lab Sample ID: 410-105518-6**

Date Collected: 11/08/22 09:17

Matrix: Drinking Water

Date Received: 11/11/22 10:10

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

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.2		1.7	1.2	0.41	ng/L		11/16/22 05:38	1
Perfluoroheptanoic acid	<1.2		1.7	1.2	0.41	ng/L		11/16/22 05:38	1
Perfluorooctanoic acid	<1.2		1.7	1.2	0.41	ng/L		11/16/22 05:38	1
Perfluorononanoic acid	<1.2		1.7	1.2	0.41	ng/L		11/16/22 05:38	1
Perfluorodecanoic acid	<1.2		1.7	1.2	0.41	ng/L		11/16/22 05:38	1
Perfluorotridecanoic acid	<1.2		1.7	1.2	0.41	ng/L		11/16/22 05:38	1
Perfluorotetradecanoic acid	<1.2		1.7	1.2	0.41	ng/L		11/16/22 05:38	1
<b>Perfluorobutanesulfonic acid</b>	<b>2.4</b>		1.7	1.2	0.41	ng/L		11/16/22 05:38	1
<b>Perfluorohexanesulfonic acid</b>	<b>0.61 J</b>		1.7	1.2	0.41	ng/L		11/16/22 05:38	1
<b>Perfluorooctanesulfonic acid</b>	<b>0.45 J</b>		1.7	1.2	0.41	ng/L		11/16/22 05:38	1
NEtFOSAA	<1.2		1.7	1.2	0.41	ng/L		11/16/22 05:38	1
NMeFOSAA	<1.2		1.7	1.2	0.41	ng/L		11/16/22 05:38	1
Perfluoroundecanoic acid	<1.2		1.7	1.2	0.41	ng/L		11/16/22 05:38	1
Perfluorododecanoic acid	<1.2		1.7	1.2	0.41	ng/L		11/16/22 05:38	1
HFPODA	<1.2		1.7	1.2	0.41	ng/L		11/16/22 05:38	1
9CI-PF3ONS	<1.2		1.7	1.2	0.41	ng/L		11/16/22 05:38	1
11CI-PF3OUdS	<1.2		1.7	1.2	0.41	ng/L		11/16/22 05:38	1
DONA	<1.2		1.7	1.2	0.41	ng/L		11/16/22 05:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDA	102		70 - 130	11/14/22 13:11	11/16/22 05:38	1
13C2 PFHxA	108		70 - 130	11/14/22 13:11	11/16/22 05:38	1
13C3 HFPO-DA	104		70 - 130	11/14/22 13:11	11/16/22 05:38	1
d5-NEtFOSAA	110		70 - 130	11/14/22 13:11	11/16/22 05:38	1

**Client Sample ID: FB-04**

**Lab Sample ID: 410-105518-7**

Date Collected: 11/08/22 09:17

Matrix: Drinking Water

Date Received: 11/11/22 10:10

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

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.2		1.7	1.2	0.42	ng/L		11/16/22 05:49	1
Perfluoroheptanoic acid	<1.2		1.7	1.2	0.42	ng/L		11/16/22 05:49	1
Perfluorooctanoic acid	<1.2		1.7	1.2	0.42	ng/L		11/16/22 05:49	1
Perfluorononanoic acid	<1.2		1.7	1.2	0.42	ng/L		11/16/22 05:49	1
Perfluorodecanoic acid	<1.2		1.7	1.2	0.42	ng/L		11/16/22 05:49	1
Perfluorotridecanoic acid	<1.2		1.7	1.2	0.42	ng/L		11/16/22 05:49	1
Perfluorotetradecanoic acid	<1.2		1.7	1.2	0.42	ng/L		11/16/22 05:49	1
Perfluorobutanesulfonic acid	<1.2		1.7	1.2	0.42	ng/L		11/16/22 05:49	1
Perfluorohexanesulfonic acid	<1.2		1.7	1.2	0.42	ng/L		11/16/22 05:49	1
Perfluorooctanesulfonic acid	<1.2		1.7	1.2	0.42	ng/L		11/16/22 05:49	1
NEtFOSAA	<1.2		1.7	1.2	0.42	ng/L		11/16/22 05:49	1
NMeFOSAA	<1.2		1.7	1.2	0.42	ng/L		11/16/22 05:49	1
Perfluoroundecanoic acid	<1.2		1.7	1.2	0.42	ng/L		11/16/22 05:49	1
Perfluorododecanoic acid	<1.2		1.7	1.2	0.42	ng/L		11/16/22 05:49	1
HFPODA	<1.2		1.7	1.2	0.42	ng/L		11/16/22 05:49	1
9CI-PF3ONS	<1.2		1.7	1.2	0.42	ng/L		11/16/22 05:49	1
11CI-PF3OUdS	<1.2		1.7	1.2	0.42	ng/L		11/16/22 05:49	1
DONA	<1.2		1.7	1.2	0.42	ng/L		11/16/22 05:49	1

# Client Sample Results

Client: MN Dept of Military Affairs Facilities Management Office  
 Project/Site: PFAS in DW by EPA 537.1

Job ID: 410-105518-1

**Client Sample ID: FB-04**  
**Date Collected: 11/08/22 09:17**  
**Date Received: 11/11/22 10:10**

**Lab Sample ID: 410-105518-7**  
**Matrix: Drinking Water**

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDA	91		70 - 130	11/14/22 13:11	11/16/22 05:49	1
13C2 PFHxA	85		70 - 130	11/14/22 13:11	11/16/22 05:49	1
13C3 HFPO-DA	83		70 - 130	11/14/22 13:11	11/16/22 05:49	1
d5-NEtFOSAA	89		70 - 130	11/14/22 13:11	11/16/22 05:49	1

**Client Sample ID: Willmar 11-08**  
**Date Collected: 11/08/22 11:35**  
**Date Received: 11/11/22 10:10**

**Lab Sample ID: 410-105518-8**  
**Matrix: Drinking Water**

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

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.3		1.8	1.3	0.44	ng/L		11/16/22 06:01	1
Perfluoroheptanoic acid	<1.3		1.8	1.3	0.44	ng/L		11/16/22 06:01	1
Perfluorooctanoic acid	<1.3		1.8	1.3	0.44	ng/L		11/16/22 06:01	1
Perfluorononanoic acid	<1.3		1.8	1.3	0.44	ng/L		11/16/22 06:01	1
Perfluorodecanoic acid	<1.3		1.8	1.3	0.44	ng/L		11/16/22 06:01	1
Perfluorotridecanoic acid	<1.3		1.8	1.3	0.44	ng/L		11/16/22 06:01	1
Perfluorotetradecanoic acid	<1.3		1.8	1.3	0.44	ng/L		11/16/22 06:01	1
Perfluorobutanesulfonic acid	<1.3		1.8	1.3	0.44	ng/L		11/16/22 06:01	1
Perfluorohexanesulfonic acid	<1.3		1.8	1.3	0.44	ng/L		11/16/22 06:01	1
Perfluorooctanesulfonic acid	<1.3		1.8	1.3	0.44	ng/L		11/16/22 06:01	1
NEtFOSAA	<1.3		1.8	1.3	0.44	ng/L		11/16/22 06:01	1
NMeFOSAA	<1.3		1.8	1.3	0.44	ng/L		11/16/22 06:01	1
Perfluoroundecanoic acid	<1.3		1.8	1.3	0.44	ng/L		11/16/22 06:01	1
Perfluorododecanoic acid	<1.3		1.8	1.3	0.44	ng/L		11/16/22 06:01	1
HFPODA	<1.3		1.8	1.3	0.44	ng/L		11/16/22 06:01	1
9CI-PF3ONS	<1.3		1.8	1.3	0.44	ng/L		11/16/22 06:01	1
11CI-PF3OUdS	<1.3		1.8	1.3	0.44	ng/L		11/16/22 06:01	1
DONA	<1.3		1.8	1.3	0.44	ng/L		11/16/22 06:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDA	96		70 - 130	11/14/22 13:11	11/16/22 06:01	1
13C2 PFHxA	100		70 - 130	11/14/22 13:11	11/16/22 06:01	1
13C3 HFPO-DA	91		70 - 130	11/14/22 13:11	11/16/22 06:01	1
d5-NEtFOSAA	102		70 - 130	11/14/22 13:11	11/16/22 06:01	1

**Client Sample ID: St. Cloud 11-08**  
**Date Collected: 11/08/22 14:50**  
**Date Received: 11/11/22 10:10**

**Lab Sample ID: 410-105518-9**  
**Matrix: Drinking Water**

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

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Perfluorohexanoic acid	0.86	J	1.8	1.3	0.44	ng/L		11/16/22 06:12	1
Perfluoroheptanoic acid	0.74	J	1.8	1.3	0.44	ng/L		11/16/22 06:12	1
Perfluorooctanoic acid	0.65	J M	1.8	1.3	0.44	ng/L		11/16/22 06:12	1
Perfluorononanoic acid	<1.3		1.8	1.3	0.44	ng/L		11/16/22 06:12	1
Perfluorodecanoic acid	<1.3		1.8	1.3	0.44	ng/L		11/16/22 06:12	1
Perfluorotridecanoic acid	<1.3		1.8	1.3	0.44	ng/L		11/16/22 06:12	1
Perfluorotetradecanoic acid	<1.3		1.8	1.3	0.44	ng/L		11/16/22 06:12	1
Perfluorobutanesulfonic acid	0.49	J	1.8	1.3	0.44	ng/L		11/16/22 06:12	1
Perfluorohexanesulfonic acid	<1.3		1.8	1.3	0.44	ng/L		11/16/22 06:12	1

# Client Sample Results

Client: MN Dept of Military Affairs Facilities Management Office  
 Project/Site: PFAS in DW by EPA 537.1

Job ID: 410-105518-1

**Client Sample ID: St. Cloud 11-08**

**Lab Sample ID: 410-105518-9**

**Date Collected: 11/08/22 14:50**

**Matrix: Drinking Water**

**Date Received: 11/11/22 10:10**

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

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Perfluorooctanesulfonic acid	<1.3		1.8	1.3	0.44	ng/L		11/16/22 06:12	1
NEtFOSAA	<1.3		1.8	1.3	0.44	ng/L		11/16/22 06:12	1
NMeFOSAA	<1.3		1.8	1.3	0.44	ng/L		11/16/22 06:12	1
Perfluoroundecanoic acid	<1.3		1.8	1.3	0.44	ng/L		11/16/22 06:12	1
Perfluorododecanoic acid	<1.3		1.8	1.3	0.44	ng/L		11/16/22 06:12	1
HFPODA	<1.3		1.8	1.3	0.44	ng/L		11/16/22 06:12	1
9CI-PF3ONS	<1.3		1.8	1.3	0.44	ng/L		11/16/22 06:12	1
11CI-PF3OUdS	<1.3		1.8	1.3	0.44	ng/L		11/16/22 06:12	1
DONA	<1.3		1.8	1.3	0.44	ng/L		11/16/22 06:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFDA	101		70 - 130				11/14/22 13:11	11/16/22 06:12	1
13C2 PFHxA	104		70 - 130				11/14/22 13:11	11/16/22 06:12	1
13C3 HFPO-DA	98		70 - 130				11/14/22 13:11	11/16/22 06:12	1
d5-NEtFOSAA	100		70 - 130				11/14/22 13:11	11/16/22 06:12	1

**Client Sample ID: FD-04**

**Lab Sample ID: 410-105518-10**

**Date Collected: 11/08/22 00:00**

**Matrix: Drinking Water**

**Date Received: 11/11/22 10:10**

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

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Perfluorohexanoic acid	0.86	J	1.9	1.4	0.47	ng/L		11/16/22 06:24	1
Perfluoroheptanoic acid	0.73	J	1.9	1.4	0.47	ng/L		11/16/22 06:24	1
Perfluorooctanoic acid	0.63	J M	1.9	1.4	0.47	ng/L		11/16/22 06:24	1
Perfluorononanoic acid	<1.4		1.9	1.4	0.47	ng/L		11/16/22 06:24	1
Perfluorodecanoic acid	<1.4		1.9	1.4	0.47	ng/L		11/16/22 06:24	1
Perfluorotridecanoic acid	<1.4		1.9	1.4	0.47	ng/L		11/16/22 06:24	1
Perfluorotetradecanoic acid	<1.4		1.9	1.4	0.47	ng/L		11/16/22 06:24	1
Perfluorobutanesulfonic acid	<1.4		1.9	1.4	0.47	ng/L		11/16/22 06:24	1
Perfluorohexanesulfonic acid	<1.4		1.9	1.4	0.47	ng/L		11/16/22 06:24	1
Perfluorooctanesulfonic acid	<1.4		1.9	1.4	0.47	ng/L		11/16/22 06:24	1
NEtFOSAA	<1.4		1.9	1.4	0.47	ng/L		11/16/22 06:24	1
NMeFOSAA	<1.4		1.9	1.4	0.47	ng/L		11/16/22 06:24	1
Perfluoroundecanoic acid	<1.4		1.9	1.4	0.47	ng/L		11/16/22 06:24	1
Perfluorododecanoic acid	<1.4		1.9	1.4	0.47	ng/L		11/16/22 06:24	1
HFPODA	<1.4		1.9	1.4	0.47	ng/L		11/16/22 06:24	1
9CI-PF3ONS	<1.4		1.9	1.4	0.47	ng/L		11/16/22 06:24	1
11CI-PF3OUdS	<1.4		1.9	1.4	0.47	ng/L		11/16/22 06:24	1
DONA	<1.4		1.9	1.4	0.47	ng/L		11/16/22 06:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFDA	97		70 - 130				11/14/22 13:11	11/16/22 06:24	1
13C2 PFHxA	102		70 - 130				11/14/22 13:11	11/16/22 06:24	1
13C3 HFPO-DA	94		70 - 130				11/14/22 13:11	11/16/22 06:24	1
d5-NEtFOSAA	104		70 - 130				11/14/22 13:11	11/16/22 06:24	1

# Client Sample Results

Client: MN Dept of Military Affairs Facilities Management Office  
 Project/Site: PFAS in DW by EPA 537.1

Job ID: 410-105518-1

**Client Sample ID: Monticello 11-09**

**Lab Sample ID: 410-105518-11**

**Date Collected: 11/09/22 07:45**

**Matrix: Drinking Water**

**Date Received: 11/11/22 10:10**

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

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.3	B cn	1.8	1.3	0.45	ng/L		11/15/22 12:38	1
Perfluoroheptanoic acid	<1.3	cn	1.8	1.3	0.45	ng/L		11/15/22 12:38	1
Perfluorooctanoic acid	<1.3		1.8	1.3	0.45	ng/L		11/15/22 12:38	1
Perfluorononanoic acid	<1.3		1.8	1.3	0.45	ng/L		11/15/22 12:38	1
Perfluorodecanoic acid	<1.3		1.8	1.3	0.45	ng/L		11/15/22 12:38	1
Perfluorotridecanoic acid	<1.3		1.8	1.3	0.45	ng/L		11/15/22 12:38	1
Perfluorotetradecanoic acid	<1.3		1.8	1.3	0.45	ng/L		11/15/22 12:38	1
<b>Perfluorobutanesulfonic acid</b>	<b>0.54</b>	<b>J</b>	1.8	1.3	0.45	ng/L		11/15/22 12:38	1
<b>Perfluorohexanesulfonic acid</b>	<b>3.2</b>		1.8	1.3	0.45	ng/L		11/15/22 12:38	1
Perfluorooctanesulfonic acid	<1.3		1.8	1.3	0.45	ng/L		11/15/22 12:38	1
NEtFOSAA	<1.3		1.8	1.3	0.45	ng/L		11/15/22 12:38	1
NMeFOSAA	<1.3		1.8	1.3	0.45	ng/L		11/15/22 12:38	1
Perfluoroundecanoic acid	<1.3		1.8	1.3	0.45	ng/L		11/15/22 12:38	1
Perfluorododecanoic acid	<1.3		1.8	1.3	0.45	ng/L		11/15/22 12:38	1
HFPODA	<1.3		1.8	1.3	0.45	ng/L		11/15/22 12:38	1
9CI-PF3ONS	<1.3		1.8	1.3	0.45	ng/L		11/15/22 12:38	1
11CI-PF3OUdS	<1.3		1.8	1.3	0.45	ng/L		11/15/22 12:38	1
DONA	<1.3		1.8	1.3	0.45	ng/L		11/15/22 12:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDA	92		70 - 130	11/14/22 10:17	11/15/22 12:38	1
13C2 PFHxA	94		70 - 130	11/14/22 10:17	11/15/22 12:38	1
13C3 HFPO-DA	94		70 - 130	11/14/22 10:17	11/15/22 12:38	1
d5-NEtFOSAA	94		70 - 130	11/14/22 10:17	11/15/22 12:38	1

**Client Sample ID: FB-05**

**Lab Sample ID: 410-105518-12**

**Date Collected: 11/09/22 07:45**

**Matrix: Drinking Water**

**Date Received: 11/11/22 10:10**

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

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.3	B cn	1.7	1.3	0.43	ng/L		11/15/22 12:50	1
Perfluoroheptanoic acid	<1.3	cn	1.7	1.3	0.43	ng/L		11/15/22 12:50	1
Perfluorooctanoic acid	<1.3		1.7	1.3	0.43	ng/L		11/15/22 12:50	1
Perfluorononanoic acid	<1.3		1.7	1.3	0.43	ng/L		11/15/22 12:50	1
Perfluorodecanoic acid	<1.3		1.7	1.3	0.43	ng/L		11/15/22 12:50	1
Perfluorotridecanoic acid	<1.3		1.7	1.3	0.43	ng/L		11/15/22 12:50	1
Perfluorotetradecanoic acid	<1.3		1.7	1.3	0.43	ng/L		11/15/22 12:50	1
Perfluorobutanesulfonic acid	<1.3		1.7	1.3	0.43	ng/L		11/15/22 12:50	1
Perfluorohexanesulfonic acid	<1.3		1.7	1.3	0.43	ng/L		11/15/22 12:50	1
Perfluorooctanesulfonic acid	<1.3		1.7	1.3	0.43	ng/L		11/15/22 12:50	1
NEtFOSAA	<1.3		1.7	1.3	0.43	ng/L		11/15/22 12:50	1
NMeFOSAA	<1.3		1.7	1.3	0.43	ng/L		11/15/22 12:50	1
Perfluoroundecanoic acid	<1.3		1.7	1.3	0.43	ng/L		11/15/22 12:50	1
Perfluorododecanoic acid	<1.3		1.7	1.3	0.43	ng/L		11/15/22 12:50	1
HFPODA	<1.3		1.7	1.3	0.43	ng/L		11/15/22 12:50	1
9CI-PF3ONS	<1.3		1.7	1.3	0.43	ng/L		11/15/22 12:50	1
11CI-PF3OUdS	<1.3		1.7	1.3	0.43	ng/L		11/15/22 12:50	1
DONA	<1.3		1.7	1.3	0.43	ng/L		11/15/22 12:50	1

# Client Sample Results

Client: MN Dept of Military Affairs Facilities Management Office  
 Project/Site: PFAS in DW by EPA 537.1

Job ID: 410-105518-1

**Client Sample ID: FB-05**  
**Date Collected: 11/09/22 07:45**  
**Date Received: 11/11/22 10:10**

**Lab Sample ID: 410-105518-12**  
**Matrix: Drinking Water**

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDA	96		70 - 130	11/14/22 10:17	11/15/22 12:50	1
13C2 PFHxA	90		70 - 130	11/14/22 10:17	11/15/22 12:50	1
13C3 HFPO-DA	91		70 - 130	11/14/22 10:17	11/15/22 12:50	1
d5-NEtFOSAA	93		70 - 130	11/14/22 10:17	11/15/22 12:50	1

**Client Sample ID: Anoka 11-09**  
**Date Collected: 11/09/22 08:43**  
**Date Received: 11/11/22 10:10**

**Lab Sample ID: 410-105518-13**  
**Matrix: Drinking Water**

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

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.3	B cn	1.8	1.3	0.44	ng/L		11/15/22 13:01	1
Perfluoroheptanoic acid	<1.3	cn	1.8	1.3	0.44	ng/L		11/15/22 13:01	1
Perfluorooctanoic acid	<1.3		1.8	1.3	0.44	ng/L		11/15/22 13:01	1
Perfluorononanoic acid	<1.3		1.8	1.3	0.44	ng/L		11/15/22 13:01	1
Perfluorodecanoic acid	<1.3		1.8	1.3	0.44	ng/L		11/15/22 13:01	1
Perfluorotridecanoic acid	<1.3		1.8	1.3	0.44	ng/L		11/15/22 13:01	1
Perfluorotetradecanoic acid	<1.3		1.8	1.3	0.44	ng/L		11/15/22 13:01	1
Perfluorobutanesulfonic acid	<1.3		1.8	1.3	0.44	ng/L		11/15/22 13:01	1
Perfluorohexanesulfonic acid	<1.3		1.8	1.3	0.44	ng/L		11/15/22 13:01	1
Perfluorooctanesulfonic acid	<1.3		1.8	1.3	0.44	ng/L		11/15/22 13:01	1
NEtFOSAA	<1.3		1.8	1.3	0.44	ng/L		11/15/22 13:01	1
NMeFOSAA	<1.3		1.8	1.3	0.44	ng/L		11/15/22 13:01	1
Perfluoroundecanoic acid	<1.3		1.8	1.3	0.44	ng/L		11/15/22 13:01	1
Perfluorododecanoic acid	<1.3		1.8	1.3	0.44	ng/L		11/15/22 13:01	1
HFPODA	<1.3		1.8	1.3	0.44	ng/L		11/15/22 13:01	1
9CI-PF3ONS	<1.3		1.8	1.3	0.44	ng/L		11/15/22 13:01	1
11CI-PF3OUdS	<1.3		1.8	1.3	0.44	ng/L		11/15/22 13:01	1
DONA	<1.3		1.8	1.3	0.44	ng/L		11/15/22 13:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDA	98		70 - 130	11/14/22 10:17	11/15/22 13:01	1
13C2 PFHxA	102		70 - 130	11/14/22 10:17	11/15/22 13:01	1
13C3 HFPO-DA	98		70 - 130	11/14/22 10:17	11/15/22 13:01	1
d5-NEtFOSAA	108		70 - 130	11/14/22 10:17	11/15/22 13:01	1

**Client Sample ID: Blaine 11-09**  
**Date Collected: 11/09/22 09:20**  
**Date Received: 11/11/22 10:10**

**Lab Sample ID: 410-105518-14**  
**Matrix: Drinking Water**

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

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.3	B cn	1.7	1.3	0.43	ng/L		11/15/22 13:13	1
Perfluoroheptanoic acid	<1.3	cn	1.7	1.3	0.43	ng/L		11/15/22 13:13	1
Perfluorooctanoic acid	<1.3		1.7	1.3	0.43	ng/L		11/15/22 13:13	1
Perfluorononanoic acid	<1.3		1.7	1.3	0.43	ng/L		11/15/22 13:13	1
Perfluorodecanoic acid	<1.3		1.7	1.3	0.43	ng/L		11/15/22 13:13	1
Perfluorotridecanoic acid	<1.3		1.7	1.3	0.43	ng/L		11/15/22 13:13	1
Perfluorotetradecanoic acid	<1.3		1.7	1.3	0.43	ng/L		11/15/22 13:13	1
Perfluorobutanesulfonic acid	<1.3		1.7	1.3	0.43	ng/L		11/15/22 13:13	1
Perfluorohexanesulfonic acid	<1.3		1.7	1.3	0.43	ng/L		11/15/22 13:13	1

# Client Sample Results

Client: MN Dept of Military Affairs Facilities Management Office  
 Project/Site: PFAS in DW by EPA 537.1

Job ID: 410-105518-1

**Client Sample ID: Blaine 11-09**

**Lab Sample ID: 410-105518-14**

**Date Collected: 11/09/22 09:20**

**Matrix: Drinking Water**

**Date Received: 11/11/22 10:10**

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

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Perfluorooctanesulfonic acid	<1.3		1.7	1.3	0.43	ng/L		11/15/22 13:13	1
NEtFOSAA	<1.3		1.7	1.3	0.43	ng/L		11/15/22 13:13	1
NMeFOSAA	<1.3		1.7	1.3	0.43	ng/L		11/15/22 13:13	1
Perfluoroundecanoic acid	<1.3		1.7	1.3	0.43	ng/L		11/15/22 13:13	1
Perfluorododecanoic acid	<1.3		1.7	1.3	0.43	ng/L		11/15/22 13:13	1
HFPODA	<1.3		1.7	1.3	0.43	ng/L		11/15/22 13:13	1
9CI-PF3ONS	<1.3		1.7	1.3	0.43	ng/L		11/15/22 13:13	1
11CI-PF3OUdS	<1.3		1.7	1.3	0.43	ng/L		11/15/22 13:13	1
DONA	<1.3		1.7	1.3	0.43	ng/L		11/15/22 13:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFDA	94		70 - 130				11/14/22 10:17	11/15/22 13:13	1
13C2 PFHxA	96		70 - 130				11/14/22 10:17	11/15/22 13:13	1
13C3 HFPO-DA	96		70 - 130				11/14/22 10:17	11/15/22 13:13	1
d5-NEtFOSAA	96		70 - 130				11/14/22 10:17	11/15/22 13:13	1

**Client Sample ID: Stillwater 11-09**

**Lab Sample ID: 410-105518-15**

**Date Collected: 11/09/22 10:11**

**Matrix: Drinking Water**

**Date Received: 11/11/22 10:10**

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

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
<b>Perfluorohexanoic acid</b>	<b>0.76</b>	<b>J</b>	1.8	1.3	0.44	ng/L		11/15/22 22:53	1
Perfluoroheptanoic acid	<1.3		1.8	1.3	0.44	ng/L		11/15/22 22:53	1
<b>Perfluorooctanoic acid</b>	<b>1.2</b>	<b>J</b>	1.8	1.3	0.44	ng/L		11/15/22 22:53	1
Perfluorononanoic acid	<1.3		1.8	1.3	0.44	ng/L		11/15/22 22:53	1
Perfluorodecanoic acid	<1.3		1.8	1.3	0.44	ng/L		11/15/22 22:53	1
Perfluorotridecanoic acid	<1.3		1.8	1.3	0.44	ng/L		11/15/22 22:53	1
Perfluorotetradecanoic acid	<1.3		1.8	1.3	0.44	ng/L		11/15/22 22:53	1
<b>Perfluorobutanesulfonic acid</b>	<b>0.74</b>	<b>J</b>	1.8	1.3	0.44	ng/L		11/15/22 22:53	1
<b>Perfluorohexanesulfonic acid</b>	<b>0.85</b>	<b>J</b>	1.8	1.3	0.44	ng/L		11/15/22 22:53	1
<b>Perfluorooctanesulfonic acid</b>	<b>0.56</b>	<b>J</b>	1.8	1.3	0.44	ng/L		11/15/22 22:53	1
NEtFOSAA	<1.3		1.8	1.3	0.44	ng/L		11/15/22 22:53	1
NMeFOSAA	<1.3		1.8	1.3	0.44	ng/L		11/15/22 22:53	1
Perfluoroundecanoic acid	<1.3		1.8	1.3	0.44	ng/L		11/15/22 22:53	1
Perfluorododecanoic acid	<1.3		1.8	1.3	0.44	ng/L		11/15/22 22:53	1
HFPODA	<1.3		1.8	1.3	0.44	ng/L		11/15/22 22:53	1
9CI-PF3ONS	<1.3		1.8	1.3	0.44	ng/L		11/15/22 22:53	1
11CI-PF3OUdS	<1.3		1.8	1.3	0.44	ng/L		11/15/22 22:53	1
DONA	<1.3		1.8	1.3	0.44	ng/L		11/15/22 22:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFDA	101		70 - 130				11/14/22 11:18	11/15/22 22:53	1
13C2 PFHxA	105		70 - 130				11/14/22 11:18	11/15/22 22:53	1
13C3 HFPO-DA	102		70 - 130				11/14/22 11:18	11/15/22 22:53	1
d5-NEtFOSAA	98		70 - 130				11/14/22 11:18	11/15/22 22:53	1

# Client Sample Results

Client: MN Dept of Military Affairs Facilities Management Office  
 Project/Site: PFAS in DW by EPA 537.1

Job ID: 410-105518-1

**Client Sample ID: Hastings 11-09**

**Lab Sample ID: 410-105518-16**

Date Collected: 11/09/22 11:00

Matrix: Drinking Water

Date Received: 11/11/22 10:10

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

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Perfluorohexanoic acid	3.8		1.8	1.4	0.46	ng/L		11/15/22 23:17	1
Perfluoroheptanoic acid	0.99	J	1.8	1.4	0.46	ng/L		11/15/22 23:17	1
Perfluorooctanoic acid	17		1.8	1.4	0.46	ng/L		11/15/22 23:17	1
Perfluorononanoic acid	<1.4		1.8	1.4	0.46	ng/L		11/15/22 23:17	1
Perfluorodecanoic acid	<1.4		1.8	1.4	0.46	ng/L		11/15/22 23:17	1
Perfluorotridecanoic acid	<1.4		1.8	1.4	0.46	ng/L		11/15/22 23:17	1
Perfluorotetradecanoic acid	<1.4		1.8	1.4	0.46	ng/L		11/15/22 23:17	1
Perfluorobutanesulfonic acid	1.6	J	1.8	1.4	0.46	ng/L		11/15/22 23:17	1
Perfluorohexanesulfonic acid	2.2		1.8	1.4	0.46	ng/L		11/15/22 23:17	1
Perfluorooctanesulfonic acid	2.1		1.8	1.4	0.46	ng/L		11/15/22 23:17	1
NEtFOSAA	<1.4		1.8	1.4	0.46	ng/L		11/15/22 23:17	1
NMeFOSAA	<1.4		1.8	1.4	0.46	ng/L		11/15/22 23:17	1
Perfluoroundecanoic acid	<1.4		1.8	1.4	0.46	ng/L		11/15/22 23:17	1
Perfluorododecanoic acid	<1.4		1.8	1.4	0.46	ng/L		11/15/22 23:17	1
HFPODA	<1.4		1.8	1.4	0.46	ng/L		11/15/22 23:17	1
9CI-PF3ONS	<1.4		1.8	1.4	0.46	ng/L		11/15/22 23:17	1
11CI-PF3OUdS	<1.4		1.8	1.4	0.46	ng/L		11/15/22 23:17	1
DONA	<1.4		1.8	1.4	0.46	ng/L		11/15/22 23:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDA	95		70 - 130	11/14/22 11:18	11/15/22 23:17	1
13C2 PFHxA	101		70 - 130	11/14/22 11:18	11/15/22 23:17	1
13C3 HFPO-DA	100		70 - 130	11/14/22 11:18	11/15/22 23:17	1
d5-NEtFOSAA	94		70 - 130	11/14/22 11:18	11/15/22 23:17	1

**Client Sample ID: Cottage Grove 11-09**

**Lab Sample ID: 410-105518-17**

Date Collected: 11/09/22 12:50

Matrix: Drinking Water

Date Received: 11/11/22 10:10

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

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Perfluorohexanoic acid	15		1.8	1.3	0.44	ng/L		11/15/22 23:28	1
Perfluoroheptanoic acid	2.0		1.8	1.3	0.44	ng/L		11/15/22 23:28	1
Perfluorooctanoic acid	15		1.8	1.3	0.44	ng/L		11/15/22 23:28	1
Perfluorononanoic acid	<1.3		1.8	1.3	0.44	ng/L		11/15/22 23:28	1
Perfluorodecanoic acid	<1.3		1.8	1.3	0.44	ng/L		11/15/22 23:28	1
Perfluorotridecanoic acid	<1.3		1.8	1.3	0.44	ng/L		11/15/22 23:28	1
Perfluorotetradecanoic acid	<1.3		1.8	1.3	0.44	ng/L		11/15/22 23:28	1
Perfluorobutanesulfonic acid	18		1.8	1.3	0.44	ng/L		11/15/22 23:28	1
Perfluorohexanesulfonic acid	8.0		1.8	1.3	0.44	ng/L		11/15/22 23:28	1
Perfluorooctanesulfonic acid	0.89	J	1.8	1.3	0.44	ng/L		11/15/22 23:28	1
NEtFOSAA	<1.3		1.8	1.3	0.44	ng/L		11/15/22 23:28	1
NMeFOSAA	<1.3		1.8	1.3	0.44	ng/L		11/15/22 23:28	1
Perfluoroundecanoic acid	<1.3		1.8	1.3	0.44	ng/L		11/15/22 23:28	1
Perfluorododecanoic acid	<1.3		1.8	1.3	0.44	ng/L		11/15/22 23:28	1
HFPODA	<1.3		1.8	1.3	0.44	ng/L		11/15/22 23:28	1
9CI-PF3ONS	<1.3		1.8	1.3	0.44	ng/L		11/15/22 23:28	1
11CI-PF3OUdS	<1.3		1.8	1.3	0.44	ng/L		11/15/22 23:28	1
DONA	<1.3		1.8	1.3	0.44	ng/L		11/15/22 23:28	1

# Client Sample Results

Client: MN Dept of Military Affairs Facilities Management Office  
 Project/Site: PFAS in DW by EPA 537.1

Job ID: 410-105518-1

**Client Sample ID: Cottage Grove 11-09**

**Lab Sample ID: 410-105518-17**

Date Collected: 11/09/22 12:50

Matrix: Drinking Water

Date Received: 11/11/22 10:10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDA	98		70 - 130	11/14/22 11:18	11/15/22 23:28	1
13C2 PFHxA	104		70 - 130	11/14/22 11:18	11/15/22 23:28	1
13C3 HFPO-DA	99		70 - 130	11/14/22 11:18	11/15/22 23:28	1
d5-NEtFOSAA	92		70 - 130	11/14/22 11:18	11/15/22 23:28	1

**Client Sample ID: IGH 11-09**

**Lab Sample ID: 410-105518-18**

Date Collected: 11/09/22 13:21

Matrix: Drinking Water

Date Received: 11/11/22 10:10

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

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.3		1.7	1.3	0.44	ng/L		11/15/22 23:40	1
Perfluoroheptanoic acid	<1.3		1.7	1.3	0.44	ng/L		11/15/22 23:40	1
<b>Perfluorooctanoic acid</b>	<b>0.54</b>	<b>J M</b>	1.7	1.3	0.44	ng/L		11/15/22 23:40	1
Perfluorononanoic acid	<1.3		1.7	1.3	0.44	ng/L		11/15/22 23:40	1
Perfluorodecanoic acid	<1.3		1.7	1.3	0.44	ng/L		11/15/22 23:40	1
Perfluorotridecanoic acid	<1.3		1.7	1.3	0.44	ng/L		11/15/22 23:40	1
Perfluorotetradecanoic acid	<1.3		1.7	1.3	0.44	ng/L		11/15/22 23:40	1
Perfluorobutanesulfonic acid	<1.3		1.7	1.3	0.44	ng/L		11/15/22 23:40	1
Perfluorohexanesulfonic acid	<1.3		1.7	1.3	0.44	ng/L		11/15/22 23:40	1
Perfluorooctanesulfonic acid	<1.3		1.7	1.3	0.44	ng/L		11/15/22 23:40	1
NEtFOSAA	<1.3		1.7	1.3	0.44	ng/L		11/15/22 23:40	1
NMeFOSAA	<1.3		1.7	1.3	0.44	ng/L		11/15/22 23:40	1
Perfluoroundecanoic acid	<1.3		1.7	1.3	0.44	ng/L		11/15/22 23:40	1
Perfluorododecanoic acid	<1.3		1.7	1.3	0.44	ng/L		11/15/22 23:40	1
HFPODA	<1.3		1.7	1.3	0.44	ng/L		11/15/22 23:40	1
9CI-PF3ONS	<1.3		1.7	1.3	0.44	ng/L		11/15/22 23:40	1
11CI-PF3OUdS	<1.3		1.7	1.3	0.44	ng/L		11/15/22 23:40	1
DONA	<1.3		1.7	1.3	0.44	ng/L		11/15/22 23:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDA	100		70 - 130	11/14/22 11:18	11/15/22 23:40	1
13C2 PFHxA	101		70 - 130	11/14/22 11:18	11/15/22 23:40	1
13C3 HFPO-DA	99		70 - 130	11/14/22 11:18	11/15/22 23:40	1
d5-NEtFOSAA	106		70 - 130	11/14/22 11:18	11/15/22 23:40	1

**Client Sample ID: St. Paul 11-09**

**Lab Sample ID: 410-105518-19**

Date Collected: 11/09/22 13:53

Matrix: Drinking Water

Date Received: 11/11/22 10:10

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

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
<b>Perfluorohexanoic acid</b>	<b>1.5</b>	<b>J</b>	1.7	1.3	0.43	ng/L		11/15/22 23:51	1
<b>Perfluoroheptanoic acid</b>	<b>1.1</b>	<b>J</b>	1.7	1.3	0.43	ng/L		11/15/22 23:51	1
<b>Perfluorooctanoic acid</b>	<b>1.2</b>	<b>J</b>	1.7	1.3	0.43	ng/L		11/15/22 23:51	1
Perfluorononanoic acid	<1.3		1.7	1.3	0.43	ng/L		11/15/22 23:51	1
Perfluorodecanoic acid	<1.3		1.7	1.3	0.43	ng/L		11/15/22 23:51	1
Perfluorotridecanoic acid	<1.3		1.7	1.3	0.43	ng/L		11/15/22 23:51	1
Perfluorotetradecanoic acid	<1.3		1.7	1.3	0.43	ng/L		11/15/22 23:51	1
<b>Perfluorobutanesulfonic acid</b>	<b>1.1</b>	<b>J</b>	1.7	1.3	0.43	ng/L		11/15/22 23:51	1
<b>Perfluorohexanesulfonic acid</b>	<b>0.62</b>	<b>J M</b>	1.7	1.3	0.43	ng/L		11/15/22 23:51	1

# Client Sample Results

Client: MN Dept of Military Affairs Facilities Management Office  
 Project/Site: PFAS in DW by EPA 537.1

Job ID: 410-105518-1

**Client Sample ID: St. Paul 11-09**

**Lab Sample ID: 410-105518-19**

Date Collected: 11/09/22 13:53

Matrix: Drinking Water

Date Received: 11/11/22 10:10

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

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
<b>Perfluorooctanesulfonic acid</b>	<b>0.63</b>	<b>J</b>	1.7	1.3	0.43	ng/L		11/15/22 23:51	1
NEtFOSAA	<1.3		1.7	1.3	0.43	ng/L		11/15/22 23:51	1
NMeFOSAA	<1.3		1.7	1.3	0.43	ng/L		11/15/22 23:51	1
Perfluoroundecanoic acid	<1.3		1.7	1.3	0.43	ng/L		11/15/22 23:51	1
Perfluorododecanoic acid	<1.3		1.7	1.3	0.43	ng/L		11/15/22 23:51	1
HFPODA	<1.3		1.7	1.3	0.43	ng/L		11/15/22 23:51	1
9CI-PF3ONS	<1.3		1.7	1.3	0.43	ng/L		11/15/22 23:51	1
11CI-PF3OUdS	<1.3		1.7	1.3	0.43	ng/L		11/15/22 23:51	1
DONA	<1.3		1.7	1.3	0.43	ng/L		11/15/22 23:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFDA	102		70 - 130				11/14/22 11:18	11/15/22 23:51	1
13C2 PFHxA	100		70 - 130				11/14/22 11:18	11/15/22 23:51	1
13C3 HFPO-DA	92		70 - 130				11/14/22 11:18	11/15/22 23:51	1
d5-NEtFOSAA	103		70 - 130				11/14/22 11:18	11/15/22 23:51	1

**Client Sample ID: Bloomington 11-09**

**Lab Sample ID: 410-105518-20**

Date Collected: 11/09/22 14:40

Matrix: Drinking Water

Date Received: 11/11/22 10:10

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

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.3	B cn	1.8	1.3	0.45	ng/L		11/15/22 13:24	1
Perfluoroheptanoic acid	<1.3	cn	1.8	1.3	0.45	ng/L		11/15/22 13:24	1
<b>Perfluorooctanoic acid</b>	<b>0.45</b>	<b>J</b>	1.8	1.3	0.45	ng/L		11/15/22 13:24	1
Perfluorononanoic acid	<1.3		1.8	1.3	0.45	ng/L		11/15/22 13:24	1
Perfluorodecanoic acid	<1.3		1.8	1.3	0.45	ng/L		11/15/22 13:24	1
Perfluorotridecanoic acid	<1.3		1.8	1.3	0.45	ng/L		11/15/22 13:24	1
Perfluorotetradecanoic acid	<1.3		1.8	1.3	0.45	ng/L		11/15/22 13:24	1
Perfluorobutanesulfonic acid	<1.3		1.8	1.3	0.45	ng/L		11/15/22 13:24	1
Perfluorohexanesulfonic acid	<1.3		1.8	1.3	0.45	ng/L		11/15/22 13:24	1
Perfluorooctanesulfonic acid	<1.3		1.8	1.3	0.45	ng/L		11/15/22 13:24	1
NEtFOSAA	<1.3		1.8	1.3	0.45	ng/L		11/15/22 13:24	1
NMeFOSAA	<1.3		1.8	1.3	0.45	ng/L		11/15/22 13:24	1
Perfluoroundecanoic acid	<1.3		1.8	1.3	0.45	ng/L		11/15/22 13:24	1
Perfluorododecanoic acid	<1.3		1.8	1.3	0.45	ng/L		11/15/22 13:24	1
HFPODA	<1.3		1.8	1.3	0.45	ng/L		11/15/22 13:24	1
9CI-PF3ONS	<1.3		1.8	1.3	0.45	ng/L		11/15/22 13:24	1
11CI-PF3OUdS	<1.3		1.8	1.3	0.45	ng/L		11/15/22 13:24	1
DONA	<1.3		1.8	1.3	0.45	ng/L		11/15/22 13:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFDA	91		70 - 130				11/14/22 10:17	11/15/22 13:24	1
13C2 PFHxA	101		70 - 130				11/14/22 10:17	11/15/22 13:24	1
13C3 HFPO-DA	97		70 - 130				11/14/22 10:17	11/15/22 13:24	1
d5-NEtFOSAA	94		70 - 130				11/14/22 10:17	11/15/22 13:24	1

# Client Sample Results

Client: MN Dept of Military Affairs Facilities Management Office  
 Project/Site: PFAS in DW by EPA 537.1

Job ID: 410-105518-1

**Client Sample ID: Minneapolis 11-09**

**Lab Sample ID: 410-105518-21**

Date Collected: 11/09/22 15:15

Matrix: Drinking Water

Date Received: 11/11/22 10:10

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

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Perfluorohexanoic acid	1.1	J	1.7	1.3	0.43	ng/L		11/27/22 22:06	1
Perfluoroheptanoic acid	0.56	J	1.7	1.3	0.43	ng/L		11/27/22 22:06	1
Perfluorooctanoic acid	0.80	J M	1.7	1.3	0.43	ng/L		11/27/22 22:06	1
Perfluorononanoic acid	<1.3		1.7	1.3	0.43	ng/L		11/27/22 22:06	1
Perfluorodecanoic acid	<1.3		1.7	1.3	0.43	ng/L		11/27/22 22:06	1
Perfluorotridecanoic acid	<1.3		1.7	1.3	0.43	ng/L		11/27/22 22:06	1
Perfluorotetradecanoic acid	<1.3		1.7	1.3	0.43	ng/L		11/27/22 22:06	1
Perfluorobutanesulfonic acid	0.89	J	1.7	1.3	0.43	ng/L		11/27/22 22:06	1
Perfluorohexanesulfonic acid	<1.3	M	1.7	1.3	0.43	ng/L		11/27/22 22:06	1
Perfluorooctanesulfonic acid	<1.3	M	1.7	1.3	0.43	ng/L		11/27/22 22:06	1
NEtFOSAA	<1.3		1.7	1.3	0.43	ng/L		11/27/22 22:06	1
NMeFOSAA	<1.3		1.7	1.3	0.43	ng/L		11/27/22 22:06	1
Perfluoroundecanoic acid	<1.3		1.7	1.3	0.43	ng/L		11/27/22 22:06	1
Perfluorododecanoic acid	<1.3		1.7	1.3	0.43	ng/L		11/27/22 22:06	1
HFPODA	<1.3		1.7	1.3	0.43	ng/L		11/27/22 22:06	1
9CI-PF3ONS	<1.3		1.7	1.3	0.43	ng/L		11/27/22 22:06	1
11CI-PF3OUdS	<1.3		1.7	1.3	0.43	ng/L		11/27/22 22:06	1
DONA	<1.3		1.7	1.3	0.43	ng/L		11/27/22 22:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDA	95		70 - 130	11/22/22 11:16	11/27/22 22:06	1
13C2 PFHxA	95		70 - 130	11/22/22 11:16	11/27/22 22:06	1
13C3 HFPO-DA	104		70 - 130	11/22/22 11:16	11/27/22 22:06	1
d5-NEtFOSAA	94		70 - 130	11/22/22 11:16	11/27/22 22:06	1

# Surrogate Summary

Client: MN Dept of Military Affairs Facilities Management Office  
 Project/Site: PFAS in DW by EPA 537.1

Job ID: 410-105518-1

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

**Matrix: Drinking Water**

**Prep Type: Total/NA**

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		PFDA (70-130)	PFHxA (70-130)	HFPODA (70-130)	d5NEFOS (70-130)
410-105518-1	Wadena 11-07	81	104	94	77
410-105518-2	FB-03	83	98	96	79
410-105518-3	Thief River Falls 11-07	99	100	94	98
410-105518-4	Crookston 11-07	93	98	96	102
410-105518-5	Moorhead 11-07	97	105	100	100
410-105518-6	Pipestone 11-08	102	108	104	110
410-105518-7	FB-04	91	85	83	89
410-105518-8	Willmar 11-08	96	100	91	102
410-105518-9	St. Cloud 11-08	101	104	98	100
410-105518-10	FD-04	97	102	94	104
410-105518-11	Monticello 11-09	92	94	94	94
410-105518-12	FB-05	96	90	91	93
410-105518-13	Anoka 11-09	98	102	98	108
410-105518-14	Blaine 11-09	94	96	96	96
410-105518-15	Stillwater 11-09	101	105	102	98
410-105518-16	Hastings 11-09	95	101	100	94
410-105518-17	Cottage Grove 11-09	98	104	99	92
410-105518-18	IGH 11-09	100	101	99	106
410-105518-19	St. Paul 11-09	102	100	92	103
410-105518-20	Bloomington 11-09	91	101	97	94
410-105518-21	Minneapolis 11-09	95	95	104	94
LCS 410-317206/2-A	Lab Control Sample	97	94	93	94
LCS 410-317237/2-A	Lab Control Sample	98	97	95	101
LCS 410-317304/2-A	Lab Control Sample	95	95	90	101
LCS 410-320223/2-A	Lab Control Sample	87	87	99	112
LCSD 410-317206/3-A	Lab Control Sample Dup	97	94	93	95
LCSD 410-317237/3-A	Lab Control Sample Dup	96	90	89	95
LCSD 410-320223/3-A	Lab Control Sample Dup	93	90	102	95
MB 410-317206/1-A	Method Blank	93	92	91	96
MB 410-317237/1-A	Method Blank	97	98	95	98
MB 410-317304/1-A	Method Blank	88	91	93	97
MB 410-320223/1-A	Method Blank	89	89	98	99

**Surrogate Legend**

PFDA = 13C2 PFDA  
 PFHxA = 13C2 PFHxA  
 HFPODA = 13C3 HFPO-DA  
 d5NEFOS = d5-NEtFOSAA

# QC Sample Results

Client: MN Dept of Military Affairs Facilities Management Office  
 Project/Site: PFAS in DW by EPA 537.1

Job ID: 410-105518-1

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

**Lab Sample ID: MB 410-317206/1-A**  
**Matrix: Drinking Water**  
**Analysis Batch: 317374**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 317206**

Analyte	MB	MB	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
	Result	Qualifier							
Perfluorohexanoic acid	3.40	B	2.0	1.5	0.50	ng/L		11/15/22 07:26	1
Perfluoroheptanoic acid	0.647	J	2.0	1.5	0.50	ng/L		11/15/22 07:26	1
Perfluorooctanoic acid	<1.5		2.0	1.5	0.50	ng/L		11/15/22 07:26	1
Perfluorononanoic acid	<1.5		2.0	1.5	0.50	ng/L		11/15/22 07:26	1
Perfluorodecanoic acid	<1.5		2.0	1.5	0.50	ng/L		11/15/22 07:26	1
Perfluorotridecanoic acid	<1.5		2.0	1.5	0.50	ng/L		11/15/22 07:26	1
Perfluorotetradecanoic acid	<1.5		2.0	1.5	0.50	ng/L		11/15/22 07:26	1
Perfluorobutanesulfonic acid	<1.5		2.0	1.5	0.50	ng/L		11/15/22 07:26	1
Perfluorohexanesulfonic acid	<1.5		2.0	1.5	0.50	ng/L		11/15/22 07:26	1
Perfluorooctanesulfonic acid	<1.5		2.0	1.5	0.50	ng/L		11/15/22 07:26	1
NEtFOSAA	<1.5		2.0	1.5	0.50	ng/L		11/15/22 07:26	1
NMeFOSAA	<1.5		2.0	1.5	0.50	ng/L		11/15/22 07:26	1
Perfluoroundecanoic acid	<1.5		2.0	1.5	0.50	ng/L		11/15/22 07:26	1
Perfluorododecanoic acid	<1.5		2.0	1.5	0.50	ng/L		11/15/22 07:26	1
HFPODA	<1.5		2.0	1.5	0.50	ng/L		11/15/22 07:26	1
9CI-PF3ONS	<1.5		2.0	1.5	0.50	ng/L		11/15/22 07:26	1
11CI-PF3OUdS	<1.5		2.0	1.5	0.50	ng/L		11/15/22 07:26	1
DONA	<1.5		2.0	1.5	0.50	ng/L		11/15/22 07:26	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C2 PFDA	93		70 - 130	11/14/22 10:17	11/15/22 07:26	1
13C2 PFHxA	92		70 - 130	11/14/22 10:17	11/15/22 07:26	1
13C3 HFPO-DA	91		70 - 130	11/14/22 10:17	11/15/22 07:26	1
d5-NEtFOSAA	96		70 - 130	11/14/22 10:17	11/15/22 07:26	1

**Lab Sample ID: LCS 410-317206/2-A**  
**Matrix: Drinking Water**  
**Analysis Batch: 317374**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 317206**

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Perfluorohexanoic acid	20.5	19.6		ng/L		96	70 - 130
Perfluoroheptanoic acid	20.5	20.1		ng/L		98	70 - 130
Perfluorooctanoic acid	20.5	20.4		ng/L		100	70 - 130
Perfluorononanoic acid	20.5	19.7		ng/L		96	70 - 130
Perfluorodecanoic acid	20.5	20.7		ng/L		101	70 - 130
Perfluorotridecanoic acid	20.5	20.4		ng/L		100	70 - 130
Perfluorotetradecanoic acid	20.5	20.2		ng/L		98	70 - 130
Perfluorobutanesulfonic acid	18.1	14.6		ng/L		80	70 - 130
Perfluorohexanesulfonic acid	18.7	17.7		ng/L		95	70 - 130
Perfluorooctanesulfonic acid	19.0	17.8	M	ng/L		94	70 - 130
NEtFOSAA	20.5	19.8		ng/L		96	70 - 130
NMeFOSAA	20.5	18.3		ng/L		89	70 - 130
Perfluoroundecanoic acid	20.5	21.0		ng/L		102	70 - 130
Perfluorododecanoic acid	20.5	19.7		ng/L		96	70 - 130
HFPODA	20.5	18.9		ng/L		92	70 - 130
9CI-PF3ONS	19.0	16.9		ng/L		89	70 - 130
11CI-PF3OUdS	19.0	16.0		ng/L		84	70 - 130
DONA	19.4	21.1		ng/L		109	70 - 130

# QC Sample Results

Client: MN Dept of Military Affairs Facilities Management Office  
 Project/Site: PFAS in DW by EPA 537.1

Job ID: 410-105518-1

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

**Lab Sample ID: LCS 410-317206/2-A**  
**Matrix: Drinking Water**  
**Analysis Batch: 317374**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 317206**

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
13C2 PFDA	97		70 - 130
13C2 PFHxA	94		70 - 130
13C3 HFPO-DA	93		70 - 130
d5-NEtFOSAA	94		70 - 130

**Lab Sample ID: LCSD 410-317206/3-A**  
**Matrix: Drinking Water**  
**Analysis Batch: 317374**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 317206**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
Perfluorohexanoic acid	20.5	19.3		ng/L		94	70 - 130	1	30	
Perfluoroheptanoic acid	20.5	20.2		ng/L		98	70 - 130	0	30	
Perfluorooctanoic acid	20.5	19.6		ng/L		96	70 - 130	4	30	
Perfluorononanoic acid	20.5	19.2		ng/L		94	70 - 130	3	30	
Perfluorodecanoic acid	20.5	19.7		ng/L		96	70 - 130	5	30	
Perfluorotridecanoic acid	20.5	20.5		ng/L		100	70 - 130	1	30	
Perfluorotetradecanoic acid	20.5	23.0		ng/L		112	70 - 130	13	30	
Perfluorobutanesulfonic acid	18.1	15.2		ng/L		84	70 - 130	4	30	
Perfluorohexanesulfonic acid	18.7	19.1		ng/L		102	70 - 130	8	30	
Perfluorooctanesulfonic acid	19.0	19.0		ng/L		100	70 - 130	6	30	
NEtFOSAA	20.5	21.5		ng/L		105	70 - 130	9	30	
NMeFOSAA	20.5	20.3		ng/L		99	70 - 130	10	30	
Perfluoroundecanoic acid	20.5	20.4		ng/L		100	70 - 130	3	30	
Perfluorododecanoic acid	20.5	20.1		ng/L		98	70 - 130	2	30	
HFPODA	20.5	18.7		ng/L		91	70 - 130	1	30	
9CI-PF3ONS	19.0	20.1		ng/L		105	70 - 130	17	30	
11CI-PF3OUdS	19.0	17.8		ng/L		94	70 - 130	11	30	
DONA	19.4	20.4		ng/L		106	70 - 130	3	30	

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
13C2 PFDA	97		70 - 130
13C2 PFHxA	94		70 - 130
13C3 HFPO-DA	93		70 - 130
d5-NEtFOSAA	95		70 - 130

**Lab Sample ID: MB 410-317237/1-A**  
**Matrix: Drinking Water**  
**Analysis Batch: 317889**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 317237**

Analyte	MB MB		LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
	Result	Qualifier							
Perfluorohexanoic acid	<1.5		2.0	1.5	0.50	ng/L		11/15/22 20:23	1
Perfluoroheptanoic acid	<1.5		2.0	1.5	0.50	ng/L		11/15/22 20:23	1
Perfluorooctanoic acid	<1.5		2.0	1.5	0.50	ng/L		11/15/22 20:23	1
Perfluorononanoic acid	<1.5		2.0	1.5	0.50	ng/L		11/15/22 20:23	1
Perfluorodecanoic acid	<1.5		2.0	1.5	0.50	ng/L		11/15/22 20:23	1
Perfluorotridecanoic acid	<1.5		2.0	1.5	0.50	ng/L		11/15/22 20:23	1
Perfluorotetradecanoic acid	<1.5		2.0	1.5	0.50	ng/L		11/15/22 20:23	1
Perfluorobutanesulfonic acid	<1.5		2.0	1.5	0.50	ng/L		11/15/22 20:23	1

Eurofins Lancaster Laboratories Environment Testing, LLC

# QC Sample Results

Client: MN Dept of Military Affairs Facilities Management Office  
 Project/Site: PFAS in DW by EPA 537.1

Job ID: 410-105518-1

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

**Lab Sample ID: MB 410-317237/1-A**  
**Matrix: Drinking Water**  
**Analysis Batch: 317889**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 317237**

Analyte	MB MB		LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
	Result	Qualifier							
Perfluorohexanesulfonic acid	<1.5		2.0	1.5	0.50	ng/L		11/15/22 20:23	1
Perfluorooctanesulfonic acid	<1.5		2.0	1.5	0.50	ng/L		11/15/22 20:23	1
NEtFOSAA	<1.5		2.0	1.5	0.50	ng/L		11/15/22 20:23	1
NMeFOSAA	<1.5		2.0	1.5	0.50	ng/L		11/15/22 20:23	1
Perfluoroundecanoic acid	<1.5		2.0	1.5	0.50	ng/L		11/15/22 20:23	1
Perfluorododecanoic acid	<1.5		2.0	1.5	0.50	ng/L		11/15/22 20:23	1
HFPODA	<1.5		2.0	1.5	0.50	ng/L		11/15/22 20:23	1
9CI-PF3ONS	<1.5		2.0	1.5	0.50	ng/L		11/15/22 20:23	1
11CI-PF3OUdS	<1.5		2.0	1.5	0.50	ng/L		11/15/22 20:23	1
DONA	<1.5		2.0	1.5	0.50	ng/L		11/15/22 20:23	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C2 PFDA	97		70 - 130	11/14/22 11:18	11/15/22 20:23	1
13C2 PFHxA	98		70 - 130	11/14/22 11:18	11/15/22 20:23	1
13C3 HFPO-DA	95		70 - 130	11/14/22 11:18	11/15/22 20:23	1
d5-NEtFOSAA	98		70 - 130	11/14/22 11:18	11/15/22 20:23	1

**Lab Sample ID: LCS 410-317237/2-A**  
**Matrix: Drinking Water**  
**Analysis Batch: 317889**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 317237**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoroheptanoic acid	80.0	76.2		ng/L		95	70 - 130
Perfluorooctanoic acid	80.0	74.6		ng/L		93	70 - 130
Perfluorononanoic acid	80.0	70.3		ng/L		88	70 - 130
Perfluorodecanoic acid	80.0	73.2		ng/L		91	70 - 130
Perfluorotridecanoic acid	80.0	70.2		ng/L		88	70 - 130
Perfluorotetradecanoic acid	80.0	73.8		ng/L		92	70 - 130
Perfluorobutanesulfonic acid	70.8	61.9		ng/L		87	70 - 130
Perfluorohexanesulfonic acid	73.0	69.6		ng/L		95	70 - 130
Perfluorooctanesulfonic acid	74.0	72.1		ng/L		97	70 - 130
NEtFOSAA	80.0	84.4	E	ng/L		105	70 - 130
NMeFOSAA	80.0	79.2		ng/L		99	70 - 130
Perfluoroundecanoic acid	80.0	75.1		ng/L		94	70 - 130
Perfluorododecanoic acid	80.0	72.3		ng/L		90	70 - 130
HFPODA	80.0	71.0		ng/L		89	70 - 130
9CI-PF3ONS	74.4	71.1		ng/L		96	70 - 130
11CI-PF3OUdS	74.4	75.5	E	ng/L		101	70 - 130
DONA	75.6	81.4	E	ng/L		108	70 - 130

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
13C2 PFDA	98		70 - 130
13C2 PFHxA	97		70 - 130
13C3 HFPO-DA	95		70 - 130
d5-NEtFOSAA	101		70 - 130

# QC Sample Results

Client: MN Dept of Military Affairs Facilities Management Office  
 Project/Site: PFAS in DW by EPA 537.1

Job ID: 410-105518-1

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

**Lab Sample ID: LCSD 410-317237/3-A**  
**Matrix: Drinking Water**  
**Analysis Batch: 317889**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 317237**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
Perfluorohexanoic acid	80.0	72.3		ng/L		90	70 - 130	1	30	
Perfluoroheptanoic acid	80.0	78.9		ng/L		99	70 - 130	3	30	
Perfluorooctanoic acid	80.0	77.4		ng/L		97	70 - 130	4	30	
Perfluorononanoic acid	80.0	78.3		ng/L		98	70 - 130	11	30	
Perfluorodecanoic acid	80.0	78.2		ng/L		98	70 - 130	7	30	
Perfluorotridecanoic acid	80.0	78.3		ng/L		98	70 - 130	11	30	
Perfluorotetradecanoic acid	80.0	78.4		ng/L		98	70 - 130	6	30	
Perfluorobutanesulfonic acid	70.8	59.7		ng/L		84	70 - 130	4	30	
Perfluorohexanesulfonic acid	73.0	73.4	E	ng/L		101	70 - 130	5	30	
Perfluorooctanesulfonic acid	74.0	75.2	E	ng/L		102	70 - 130	4	30	
NEtFOSAA	80.0	82.9	E	ng/L		104	70 - 130	2	30	
NMeFOSAA	80.0	78.2		ng/L		98	70 - 130	1	30	
Perfluoroundecanoic acid	80.0	78.4		ng/L		98	70 - 130	4	30	
Perfluorododecanoic acid	80.0	81.4	E	ng/L		102	70 - 130	12	30	
HFPODA	80.0	71.0		ng/L		89	70 - 130	0	30	
9CI-PF3ONS	74.4	80.0	E	ng/L		107	70 - 130	12	30	
11CI-PF3OUdS	74.4	82.1	E	ng/L		110	70 - 130	8	30	
DONA	75.6	81.9	E	ng/L		108	70 - 130	1	30	

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
13C2 PFDA	96		70 - 130
13C2 PFHxA	90		70 - 130
13C3 HFPO-DA	89		70 - 130
d5-NEtFOSAA	95		70 - 130

**Lab Sample ID: MB 410-317304/1-A**  
**Matrix: Drinking Water**  
**Analysis Batch: 317889**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 317304**

Analyte	MB		LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
	Result	Qualifier							
Perfluorohexanoic acid	<1.5		2.0	1.5	0.50	ng/L		11/16/22 01:47	1
Perfluoroheptanoic acid	<1.5		2.0	1.5	0.50	ng/L		11/16/22 01:47	1
Perfluorooctanoic acid	<1.5		2.0	1.5	0.50	ng/L		11/16/22 01:47	1
Perfluorononanoic acid	<1.5		2.0	1.5	0.50	ng/L		11/16/22 01:47	1
Perfluorodecanoic acid	<1.5		2.0	1.5	0.50	ng/L		11/16/22 01:47	1
Perfluorotridecanoic acid	<1.5		2.0	1.5	0.50	ng/L		11/16/22 01:47	1
Perfluorotetradecanoic acid	<1.5		2.0	1.5	0.50	ng/L		11/16/22 01:47	1
Perfluorobutanesulfonic acid	<1.5		2.0	1.5	0.50	ng/L		11/16/22 01:47	1
Perfluorohexanesulfonic acid	<1.5		2.0	1.5	0.50	ng/L		11/16/22 01:47	1
Perfluorooctanesulfonic acid	<1.5		2.0	1.5	0.50	ng/L		11/16/22 01:47	1
NEtFOSAA	<1.5		2.0	1.5	0.50	ng/L		11/16/22 01:47	1
NMeFOSAA	<1.5		2.0	1.5	0.50	ng/L		11/16/22 01:47	1
Perfluoroundecanoic acid	<1.5		2.0	1.5	0.50	ng/L		11/16/22 01:47	1
Perfluorododecanoic acid	<1.5		2.0	1.5	0.50	ng/L		11/16/22 01:47	1
HFPODA	<1.5		2.0	1.5	0.50	ng/L		11/16/22 01:47	1
9CI-PF3ONS	<1.5		2.0	1.5	0.50	ng/L		11/16/22 01:47	1
11CI-PF3OUdS	<1.5		2.0	1.5	0.50	ng/L		11/16/22 01:47	1
DONA	<1.5		2.0	1.5	0.50	ng/L		11/16/22 01:47	1

Eurofins Lancaster Laboratories Environment Testing, LLC

# QC Sample Results

Client: MN Dept of Military Affairs Facilities Management Office  
 Project/Site: PFAS in DW by EPA 537.1

Job ID: 410-105518-1

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

**Lab Sample ID: MB 410-317304/1-A**  
**Matrix: Drinking Water**  
**Analysis Batch: 317889**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 317304**

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C2 PFDA	88		70 - 130	11/14/22 13:11	11/16/22 01:47	1
13C2 PFHxA	91		70 - 130	11/14/22 13:11	11/16/22 01:47	1
13C3 HFPO-DA	93		70 - 130	11/14/22 13:11	11/16/22 01:47	1
d5-NEtFOSAA	97		70 - 130	11/14/22 13:11	11/16/22 01:47	1

**Lab Sample ID: LCS 410-317304/2-A**  
**Matrix: Drinking Water**  
**Analysis Batch: 317889**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 317304**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Perfluorohexanoic acid	20.5	19.0		ng/L		93	70 - 130
Perfluoroheptanoic acid	20.5	19.8		ng/L		97	70 - 130
Perfluorooctanoic acid	20.5	20.2		ng/L		99	70 - 130
Perfluorononanoic acid	20.5	18.7		ng/L		91	70 - 130
Perfluorodecanoic acid	20.5	20.1		ng/L		98	70 - 130
Perfluorotridecanoic acid	20.5	20.8		ng/L		102	70 - 130
Perfluorotetradecanoic acid	20.5	22.1		ng/L		108	70 - 130
Perfluorobutanesulfonic acid	18.1	15.4		ng/L		85	70 - 130
Perfluorohexanesulfonic acid	18.7	18.6		ng/L		99	70 - 130
Perfluorooctanesulfonic acid	19.0	18.4		ng/L		97	70 - 130
NEtFOSAA	20.5	20.0		ng/L		98	70 - 130
NMeFOSAA	20.5	18.4		ng/L		90	70 - 130
Perfluoroundecanoic acid	20.5	21.1		ng/L		103	70 - 130
Perfluorododecanoic acid	20.5	19.3		ng/L		94	70 - 130
HFPODA	20.5	18.2		ng/L		89	70 - 130
9CI-PF3ONS	19.0	18.9		ng/L		99	70 - 130
11CI-PF3OUdS	19.0	18.2		ng/L		96	70 - 130
DONA	19.4	20.5		ng/L		106	70 - 130

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
13C2 PFDA	95		70 - 130
13C2 PFHxA	95		70 - 130
13C3 HFPO-DA	90		70 - 130
d5-NEtFOSAA	101		70 - 130

**Lab Sample ID: MB 410-320223/1-A**  
**Matrix: Drinking Water**  
**Analysis Batch: 321004**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 320223**

Analyte	MB MB		LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
	Result	Qualifier							
Perfluorohexanoic acid	<1.5		2.0	1.5	0.50	ng/L		11/27/22 20:45	1
Perfluoroheptanoic acid	<1.5		2.0	1.5	0.50	ng/L		11/27/22 20:45	1
Perfluorooctanoic acid	<1.5		2.0	1.5	0.50	ng/L		11/27/22 20:45	1
Perfluorononanoic acid	<1.5		2.0	1.5	0.50	ng/L		11/27/22 20:45	1
Perfluorodecanoic acid	<1.5		2.0	1.5	0.50	ng/L		11/27/22 20:45	1
Perfluorotridecanoic acid	<1.5		2.0	1.5	0.50	ng/L		11/27/22 20:45	1
Perfluorotetradecanoic acid	<1.5		2.0	1.5	0.50	ng/L		11/27/22 20:45	1
Perfluorobutanesulfonic acid	<1.5		2.0	1.5	0.50	ng/L		11/27/22 20:45	1

# QC Sample Results

Client: MN Dept of Military Affairs Facilities Management Office  
 Project/Site: PFAS in DW by EPA 537.1

Job ID: 410-105518-1

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

**Lab Sample ID: MB 410-320223/1-A**  
**Matrix: Drinking Water**  
**Analysis Batch: 321004**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 320223**

Analyte	MB MB		LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
	Result	Qualifier							
Perfluorohexanesulfonic acid	<1.5		2.0	1.5	0.50	ng/L		11/27/22 20:45	1
Perfluorooctanesulfonic acid	<1.5		2.0	1.5	0.50	ng/L		11/27/22 20:45	1
NEtFOSAA	<1.5		2.0	1.5	0.50	ng/L		11/27/22 20:45	1
NMeFOSAA	<1.5		2.0	1.5	0.50	ng/L		11/27/22 20:45	1
Perfluoroundecanoic acid	<1.5		2.0	1.5	0.50	ng/L		11/27/22 20:45	1
Perfluorododecanoic acid	<1.5		2.0	1.5	0.50	ng/L		11/27/22 20:45	1
HFPODA	<1.5		2.0	1.5	0.50	ng/L		11/27/22 20:45	1
9CI-PF3ONS	<1.5		2.0	1.5	0.50	ng/L		11/27/22 20:45	1
11CI-PF3OUdS	<1.5		2.0	1.5	0.50	ng/L		11/27/22 20:45	1
DONA	<1.5		2.0	1.5	0.50	ng/L		11/27/22 20:45	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C2 PFDA	89		70 - 130	11/22/22 11:16	11/27/22 20:45	1
13C2 PFHxA	89		70 - 130	11/22/22 11:16	11/27/22 20:45	1
13C3 HFPO-DA	98		70 - 130	11/22/22 11:16	11/27/22 20:45	1
d5-NEtFOSAA	99		70 - 130	11/22/22 11:16	11/27/22 20:45	1

**Lab Sample ID: LCS 410-320223/2-A**  
**Matrix: Drinking Water**  
**Analysis Batch: 321004**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 320223**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoroheptanoic acid	20.5	21.0		ng/L		103	70 - 130
Perfluorooctanoic acid	20.5	21.5		ng/L		105	70 - 130
Perfluorononanoic acid	20.5	22.3		ng/L		109	70 - 130
Perfluorodecanoic acid	20.5	19.7		ng/L		96	70 - 130
Perfluorotridecanoic acid	20.5	21.5		ng/L		105	70 - 130
Perfluorotetradecanoic acid	20.5	23.1		ng/L		113	70 - 130
Perfluorobutanesulfonic acid	18.1	15.1		ng/L		83	70 - 130
Perfluorohexanesulfonic acid	18.7	17.9		ng/L		96	70 - 130
Perfluorooctanesulfonic acid	19.0	19.2	M	ng/L		101	70 - 130
NEtFOSAA	20.5	20.8		ng/L		101	70 - 130
NMeFOSAA	20.5	20.4		ng/L		99	70 - 130
Perfluoroundecanoic acid	20.5	22.3		ng/L		109	70 - 130
Perfluorododecanoic acid	20.5	21.5		ng/L		105	70 - 130
HFPODA	20.5	21.8		ng/L		106	70 - 130
9CI-PF3ONS	19.0	20.0		ng/L		105	70 - 130
11CI-PF3OUdS	19.0	17.2		ng/L		90	70 - 130
DONA	19.4	22.0		ng/L		114	70 - 130

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
13C2 PFDA	87		70 - 130
13C2 PFHxA	87		70 - 130
13C3 HFPO-DA	99		70 - 130
d5-NEtFOSAA	112		70 - 130

# QC Sample Results

Client: MN Dept of Military Affairs Facilities Management Office  
 Project/Site: PFAS in DW by EPA 537.1

Job ID: 410-105518-1

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

**Lab Sample ID: LCSD 410-320223/3-A**  
**Matrix: Drinking Water**  
**Analysis Batch: 321004**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 320223**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
Perfluorohexanoic acid	20.5	21.3		ng/L		104	70 - 130	5	30	
Perfluoroheptanoic acid	20.5	22.8		ng/L		111	70 - 130	8	30	
Perfluorooctanoic acid	20.5	23.6		ng/L		115	70 - 130	9	30	
Perfluorononanoic acid	20.5	22.7		ng/L		111	70 - 130	2	30	
Perfluorodecanoic acid	20.5	21.4		ng/L		104	70 - 130	8	30	
Perfluorotridecanoic acid	20.5	22.4		ng/L		109	70 - 130	4	30	
Perfluorotetradecanoic acid	20.5	24.0		ng/L		117	70 - 130	4	30	
Perfluorobutanesulfonic acid	18.1	16.2		ng/L		89	70 - 130	7	30	
Perfluorohexanesulfonic acid	18.7	20.0		ng/L		107	70 - 130	11	30	
Perfluorooctanesulfonic acid	19.0	20.7		ng/L		109	70 - 130	8	30	
NEtFOSAA	20.5	25.3		ng/L		124	70 - 130	20	30	
NMeFOSAA	20.5	20.2		ng/L		98	70 - 130	1	30	
Perfluoroundecanoic acid	20.5	21.9		ng/L		107	70 - 130	2	30	
Perfluorododecanoic acid	20.5	23.2		ng/L		114	70 - 130	8	30	
HFPODA	20.5	23.4		ng/L		114	70 - 130	7	30	
9CI-PF3ONS	19.0	19.2		ng/L		101	70 - 130	4	30	
11CI-PF3OUdS	19.0	18.1		ng/L		95	70 - 130	5	30	
DONA	19.4	24.1		ng/L		124	70 - 130	9	30	

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
13C2 PFDA	93		70 - 130
13C2 PFHxA	90		70 - 130
13C3 HFPO-DA	102		70 - 130
d5-NEtFOSAA	95		70 - 130

# QC Association Summary

Client: MN Dept of Military Affairs Facilities Management Office  
 Project/Site: PFAS in DW by EPA 537.1

Job ID: 410-105518-1

## LCMS

### Prep Batch: 317206

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-105518-11	Monticello 11-09	Total/NA	Drinking Water	EPA 537.1	
410-105518-12	FB-05	Total/NA	Drinking Water	EPA 537.1	
410-105518-13	Anoka 11-09	Total/NA	Drinking Water	EPA 537.1	
410-105518-14	Blaine 11-09	Total/NA	Drinking Water	EPA 537.1	
410-105518-20	Bloomington 11-09	Total/NA	Drinking Water	EPA 537.1	
MB 410-317206/1-A	Method Blank	Total/NA	Drinking Water	EPA 537.1	
LCS 410-317206/2-A	Lab Control Sample	Total/NA	Drinking Water	EPA 537.1	
LCSD 410-317206/3-A	Lab Control Sample Dup	Total/NA	Drinking Water	EPA 537.1	

### Prep Batch: 317237

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-105518-15	Stillwater 11-09	Total/NA	Drinking Water	EPA 537.1	
410-105518-16	Hastings 11-09	Total/NA	Drinking Water	EPA 537.1	
410-105518-17	Cottage Grove 11-09	Total/NA	Drinking Water	EPA 537.1	
410-105518-18	IGH 11-09	Total/NA	Drinking Water	EPA 537.1	
410-105518-19	St. Paul 11-09	Total/NA	Drinking Water	EPA 537.1	
MB 410-317237/1-A	Method Blank	Total/NA	Drinking Water	EPA 537.1	
LCS 410-317237/2-A	Lab Control Sample	Total/NA	Drinking Water	EPA 537.1	
LCSD 410-317237/3-A	Lab Control Sample Dup	Total/NA	Drinking Water	EPA 537.1	

### Prep Batch: 317304

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-105518-1	Wadena 11-07	Total/NA	Drinking Water	EPA 537.1	
410-105518-2	FB-03	Total/NA	Drinking Water	EPA 537.1	
410-105518-3	Thief River Falls 11-07	Total/NA	Drinking Water	EPA 537.1	
410-105518-4	Crookston 11-07	Total/NA	Drinking Water	EPA 537.1	
410-105518-5	Moorhead 11-07	Total/NA	Drinking Water	EPA 537.1	
410-105518-6	Pipestone 11-08	Total/NA	Drinking Water	EPA 537.1	
410-105518-7	FB-04	Total/NA	Drinking Water	EPA 537.1	
410-105518-8	Willmar 11-08	Total/NA	Drinking Water	EPA 537.1	
410-105518-9	St. Cloud 11-08	Total/NA	Drinking Water	EPA 537.1	
410-105518-10	FD-04	Total/NA	Drinking Water	EPA 537.1	
MB 410-317304/1-A	Method Blank	Total/NA	Drinking Water	EPA 537.1	
LCS 410-317304/2-A	Lab Control Sample	Total/NA	Drinking Water	EPA 537.1	

### Analysis Batch: 317374

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-105518-11	Monticello 11-09	Total/NA	Drinking Water	EPA 537.1	317206
410-105518-12	FB-05	Total/NA	Drinking Water	EPA 537.1	317206
410-105518-13	Anoka 11-09	Total/NA	Drinking Water	EPA 537.1	317206
410-105518-14	Blaine 11-09	Total/NA	Drinking Water	EPA 537.1	317206
410-105518-20	Bloomington 11-09	Total/NA	Drinking Water	EPA 537.1	317206
MB 410-317206/1-A	Method Blank	Total/NA	Drinking Water	EPA 537.1	317206
LCS 410-317206/2-A	Lab Control Sample	Total/NA	Drinking Water	EPA 537.1	317206
LCSD 410-317206/3-A	Lab Control Sample Dup	Total/NA	Drinking Water	EPA 537.1	317206

### Analysis Batch: 317889

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-105518-1	Wadena 11-07	Total/NA	Drinking Water	EPA 537.1	317304
410-105518-2	FB-03	Total/NA	Drinking Water	EPA 537.1	317304
410-105518-3	Thief River Falls 11-07	Total/NA	Drinking Water	EPA 537.1	317304

Eurofins Lancaster Laboratories Environment Testing, LLC

# QC Association Summary

Client: MN Dept of Military Affairs Facilities Management Office  
 Project/Site: PFAS in DW by EPA 537.1

Job ID: 410-105518-1

## LCMS (Continued)

### Analysis Batch: 317889 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-105518-4	Crookston 11-07	Total/NA	Drinking Water	EPA 537.1	317304
410-105518-5	Moorhead 11-07	Total/NA	Drinking Water	EPA 537.1	317304
410-105518-6	Pipestone 11-08	Total/NA	Drinking Water	EPA 537.1	317304
410-105518-7	FB-04	Total/NA	Drinking Water	EPA 537.1	317304
410-105518-8	Willmar 11-08	Total/NA	Drinking Water	EPA 537.1	317304
410-105518-9	St. Cloud 11-08	Total/NA	Drinking Water	EPA 537.1	317304
410-105518-10	FD-04	Total/NA	Drinking Water	EPA 537.1	317304
410-105518-15	Stillwater 11-09	Total/NA	Drinking Water	EPA 537.1	317237
410-105518-16	Hastings 11-09	Total/NA	Drinking Water	EPA 537.1	317237
410-105518-17	Cottage Grove 11-09	Total/NA	Drinking Water	EPA 537.1	317237
410-105518-18	IGH 11-09	Total/NA	Drinking Water	EPA 537.1	317237
410-105518-19	St. Paul 11-09	Total/NA	Drinking Water	EPA 537.1	317237
MB 410-317237/1-A	Method Blank	Total/NA	Drinking Water	EPA 537.1	317237
MB 410-317304/1-A	Method Blank	Total/NA	Drinking Water	EPA 537.1	317304
LCS 410-317237/2-A	Lab Control Sample	Total/NA	Drinking Water	EPA 537.1	317237
LCS 410-317304/2-A	Lab Control Sample	Total/NA	Drinking Water	EPA 537.1	317304
LCSD 410-317237/3-A	Lab Control Sample Dup	Total/NA	Drinking Water	EPA 537.1	317237

### Prep Batch: 320223

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-105518-21	Minneapolis 11-09	Total/NA	Drinking Water	EPA 537.1	
MB 410-320223/1-A	Method Blank	Total/NA	Drinking Water	EPA 537.1	
LCS 410-320223/2-A	Lab Control Sample	Total/NA	Drinking Water	EPA 537.1	
LCSD 410-320223/3-A	Lab Control Sample Dup	Total/NA	Drinking Water	EPA 537.1	

### Analysis Batch: 321004

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-105518-21	Minneapolis 11-09	Total/NA	Drinking Water	EPA 537.1	320223
MB 410-320223/1-A	Method Blank	Total/NA	Drinking Water	EPA 537.1	320223
LCS 410-320223/2-A	Lab Control Sample	Total/NA	Drinking Water	EPA 537.1	320223
LCSD 410-320223/3-A	Lab Control Sample Dup	Total/NA	Drinking Water	EPA 537.1	320223

# Lab Chronicle

Client: MN Dept of Military Affairs Facilities Management Office  
Project/Site: PFAS in DW by EPA 537.1

Job ID: 410-105518-1

## Client Sample ID: Wadena 11-07

Date Collected: 11/07/22 07:39

Date Received: 11/11/22 10:10

## Lab Sample ID: 410-105518-1

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	EPA 537.1			317304	HQ8B	ELLE	11/14/22 13:11
Total/NA	Analysis	EPA 537.1		1	317889	QD9Y	ELLE	11/16/22 04:29

## Client Sample ID: FB-03

Date Collected: 11/07/22 07:39

Date Received: 11/11/22 10:10

## Lab Sample ID: 410-105518-2

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	EPA 537.1			317304	HQ8B	ELLE	11/14/22 13:11
Total/NA	Analysis	EPA 537.1		1	317889	QD9Y	ELLE	11/16/22 04:52

## Client Sample ID: Thief River Falls 11-07

Date Collected: 11/07/22 10:40

Date Received: 11/11/22 10:10

## Lab Sample ID: 410-105518-3

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	EPA 537.1			317304	HQ8B	ELLE	11/14/22 13:11
Total/NA	Analysis	EPA 537.1		1	317889	QD9Y	ELLE	11/16/22 05:03

## Client Sample ID: Crookston 11-07

Date Collected: 11/07/22 11:40

Date Received: 11/11/22 10:10

## Lab Sample ID: 410-105518-4

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	EPA 537.1			317304	HQ8B	ELLE	11/14/22 13:11
Total/NA	Analysis	EPA 537.1		1	317889	QD9Y	ELLE	11/16/22 05:15

## Client Sample ID: Moorhead 11-07

Date Collected: 11/07/22 14:15

Date Received: 11/11/22 10:10

## Lab Sample ID: 410-105518-5

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	EPA 537.1			317304	HQ8B	ELLE	11/14/22 13:11
Total/NA	Analysis	EPA 537.1		1	317889	QD9Y	ELLE	11/16/22 05:26

## Client Sample ID: Pipestone 11-08

Date Collected: 11/08/22 09:17

Date Received: 11/11/22 10:10

## Lab Sample ID: 410-105518-6

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	EPA 537.1			317304	HQ8B	ELLE	11/14/22 13:11
Total/NA	Analysis	EPA 537.1		1	317889	QD9Y	ELLE	11/16/22 05:38

# Lab Chronicle

Client: MN Dept of Military Affairs Facilities Management Office  
Project/Site: PFAS in DW by EPA 537.1

Job ID: 410-105518-1

## Client Sample ID: FB-04

Date Collected: 11/08/22 09:17

Date Received: 11/11/22 10:10

Lab Sample ID: 410-105518-7

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	EPA 537.1			317304	HQ8B	ELLE	11/14/22 13:11
Total/NA	Analysis	EPA 537.1		1	317889	QD9Y	ELLE	11/16/22 05:49

## Client Sample ID: Willmar 11-08

Date Collected: 11/08/22 11:35

Date Received: 11/11/22 10:10

Lab Sample ID: 410-105518-8

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	EPA 537.1			317304	HQ8B	ELLE	11/14/22 13:11
Total/NA	Analysis	EPA 537.1		1	317889	QD9Y	ELLE	11/16/22 06:01

## Client Sample ID: St. Cloud 11-08

Date Collected: 11/08/22 14:50

Date Received: 11/11/22 10:10

Lab Sample ID: 410-105518-9

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	EPA 537.1			317304	HQ8B	ELLE	11/14/22 13:11
Total/NA	Analysis	EPA 537.1		1	317889	QD9Y	ELLE	11/16/22 06:12

## Client Sample ID: FD-04

Date Collected: 11/08/22 00:00

Date Received: 11/11/22 10:10

Lab Sample ID: 410-105518-10

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	EPA 537.1			317304	HQ8B	ELLE	11/14/22 13:11
Total/NA	Analysis	EPA 537.1		1	317889	QD9Y	ELLE	11/16/22 06:24

## Client Sample ID: Monticello 11-09

Date Collected: 11/09/22 07:45

Date Received: 11/11/22 10:10

Lab Sample ID: 410-105518-11

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	EPA 537.1			317206	HQ8B	ELLE	11/14/22 10:17
Total/NA	Analysis	EPA 537.1		1	317374	DCS9	ELLE	11/15/22 12:38

## Client Sample ID: FB-05

Date Collected: 11/09/22 07:45

Date Received: 11/11/22 10:10

Lab Sample ID: 410-105518-12

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	EPA 537.1			317206	HQ8B	ELLE	11/14/22 10:17
Total/NA	Analysis	EPA 537.1		1	317374	DCS9	ELLE	11/15/22 12:50

# Lab Chronicle

Client: MN Dept of Military Affairs Facilities Management Office  
Project/Site: PFAS in DW by EPA 537.1

Job ID: 410-105518-1

## Client Sample ID: Anoka 11-09

Date Collected: 11/09/22 08:43

Date Received: 11/11/22 10:10

## Lab Sample ID: 410-105518-13

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	EPA 537.1			317206	HQ8B	ELLE	11/14/22 10:17
Total/NA	Analysis	EPA 537.1		1	317374	DCS9	ELLE	11/15/22 13:01

## Client Sample ID: Blaine 11-09

Date Collected: 11/09/22 09:20

Date Received: 11/11/22 10:10

## Lab Sample ID: 410-105518-14

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	EPA 537.1			317206	HQ8B	ELLE	11/14/22 10:17
Total/NA	Analysis	EPA 537.1		1	317374	DCS9	ELLE	11/15/22 13:13

## Client Sample ID: Stillwater 11-09

Date Collected: 11/09/22 10:11

Date Received: 11/11/22 10:10

## Lab Sample ID: 410-105518-15

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	EPA 537.1			317237	HQ8B	ELLE	11/14/22 11:18
Total/NA	Analysis	EPA 537.1		1	317889	QD9Y	ELLE	11/15/22 22:53

## Client Sample ID: Hastings 11-09

Date Collected: 11/09/22 11:00

Date Received: 11/11/22 10:10

## Lab Sample ID: 410-105518-16

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	EPA 537.1			317237	HQ8B	ELLE	11/14/22 11:18
Total/NA	Analysis	EPA 537.1		1	317889	QD9Y	ELLE	11/15/22 23:17

## Client Sample ID: Cottage Grove 11-09

Date Collected: 11/09/22 12:50

Date Received: 11/11/22 10:10

## Lab Sample ID: 410-105518-17

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	EPA 537.1			317237	HQ8B	ELLE	11/14/22 11:18
Total/NA	Analysis	EPA 537.1		1	317889	QD9Y	ELLE	11/15/22 23:28

## Client Sample ID: IGH 11-09

Date Collected: 11/09/22 13:21

Date Received: 11/11/22 10:10

## Lab Sample ID: 410-105518-18

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	EPA 537.1			317237	HQ8B	ELLE	11/14/22 11:18
Total/NA	Analysis	EPA 537.1		1	317889	QD9Y	ELLE	11/15/22 23:40

# Lab Chronicle

Client: MN Dept of Military Affairs Facilities Management Office  
Project/Site: PFAS in DW by EPA 537.1

Job ID: 410-105518-1

## Client Sample ID: St. Paul 11-09

Date Collected: 11/09/22 13:53

Date Received: 11/11/22 10:10

## Lab Sample ID: 410-105518-19

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	EPA 537.1			317237	HQ8B	ELLE	11/14/22 11:18
Total/NA	Analysis	EPA 537.1		1	317889	QD9Y	ELLE	11/15/22 23:51

## Client Sample ID: Bloomington 11-09

Date Collected: 11/09/22 14:40

Date Received: 11/11/22 10:10

## Lab Sample ID: 410-105518-20

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	EPA 537.1			317206	HQ8B	ELLE	11/14/22 10:17
Total/NA	Analysis	EPA 537.1		1	317374	DCS9	ELLE	11/15/22 13:24

## Client Sample ID: Minneapolis 11-09

Date Collected: 11/09/22 15:15

Date Received: 11/11/22 10:10

## Lab Sample ID: 410-105518-21

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	EPA 537.1			320223	HQ8B	ELLE	11/22/22 11:16
Total/NA	Analysis	EPA 537.1		1	321004	PY4D	ELLE	11/27/22 22:06

### Laboratory References:

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

# Accreditation/Certification Summary

Client: MN Dept of Military Affairs Facilities Management Office  
Project/Site: PFAS in DW by EPA 537.1

Job ID: 410-105518-1

## Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

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

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	0001.01	11-30-22
Minnesota	NELAP	042-999-487	12-31-22

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

# Method Summary

Client: MN Dept of Military Affairs Facilities Management Office  
Project/Site: PFAS in DW by EPA 537.1

Job ID: 410-105518-1

Method	Method Description	Protocol	Laboratory
EPA 537.1	EPA 537.1, Ver 1.0 Nov 2018	EPA	ELLE
EPA 537.1	EPA 537.1, ver. 1.0 Nov. 2018	EPA	ELLE

**Protocol References:**

EPA = US Environmental Protection Agency

**Laboratory References:**

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



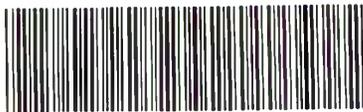
# Sample Summary

Client: MN Dept of Military Affairs Facilities Management Office  
Project/Site: PFAS in DW by EPA 537.1

Job ID: 410-105518-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-105518-1	Wadena 11-07	Drinking Water	11/07/22 07:39	11/11/22 10:10
410-105518-2	FB-03	Drinking Water	11/07/22 07:39	11/11/22 10:10
410-105518-3	Thief River Falls 11-07	Drinking Water	11/07/22 10:40	11/11/22 10:10
410-105518-4	Crookston 11-07	Drinking Water	11/07/22 11:40	11/11/22 10:10
410-105518-5	Moorhead 11-07	Drinking Water	11/07/22 14:15	11/11/22 10:10
410-105518-6	Pipestone 11-08	Drinking Water	11/08/22 09:17	11/11/22 10:10
410-105518-7	FB-04	Drinking Water	11/08/22 09:17	11/11/22 10:10
410-105518-8	Willmar 11-08	Drinking Water	11/08/22 11:35	11/11/22 10:10
410-105518-9	St. Cloud 11-08	Drinking Water	11/08/22 14:50	11/11/22 10:10
410-105518-10	FD-04	Drinking Water	11/08/22 00:00	11/11/22 10:10
410-105518-11	Monticello 11-09	Drinking Water	11/09/22 07:45	11/11/22 10:10
410-105518-12	FB-05	Drinking Water	11/09/22 07:45	11/11/22 10:10
410-105518-13	Anoka 11-09	Drinking Water	11/09/22 08:43	11/11/22 10:10
410-105518-14	Blaine 11-09	Drinking Water	11/09/22 09:20	11/11/22 10:10
410-105518-15	Stillwater 11-09	Drinking Water	11/09/22 10:11	11/11/22 10:10
410-105518-16	Hastings 11-09	Drinking Water	11/09/22 11:00	11/11/22 10:10
410-105518-17	Cottage Grove 11-09	Drinking Water	11/09/22 12:50	11/11/22 10:10
410-105518-18	IGH 11-09	Drinking Water	11/09/22 13:21	11/11/22 10:10
410-105518-19	St. Paul 11-09	Drinking Water	11/09/22 13:53	11/11/22 10:10
410-105518-20	Bloomington 11-09	Drinking Water	11/09/22 14:40	11/11/22 10:10
410-105518-21	Minneapolis 11-09	Drinking Water	11/09/22 15:15	11/11/22 10:10

E  
24  
La  
Pr



ime

# Chain of Custody Record



410-105518 Chain of Custody

C. Client Contact: Russell Howard		Sampler: Russell Howard		Lab PM: Brown, Nicole		Carrier Tracking No(s)		COC No: 410-66948-18289.3	
Company: MN Dept of Military Affairs Facilities Management Office		PWSID:		E-Mail: Nicole.Brown@et.eurofinsus.com		State of Origin: MN		Page: Page 3 of 7 1 of 2	
Address: 15000 Highway 115 Camp Ripley Building 2-1		Due Date Requested:		Analysis Requested				Job #:	
City: Little Falls		TAT Requested (days):						Preservation Codes:	
State, Zip: MN, 56345-4173		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No						A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Y - Trizma Z - other (specify)	
Phone: 214-300-5496(Tel)		PO #: Requested						Other:	
Email: russell.d.howard7.nfg@army.mil		WO #:							
Project Name: PFAS in DW by EPA 537.1		Project #: 41007393							
Site:		SSOW#:							
Sample Identification		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=soils, BT=Trisub, A=Air)	637.1_DW - DW EPA 537.1 List of 18		Special Instructions/Note:	
Wadena 11-07		11/07/22	0739	G	DW	X			
FB-03			0739		DW			Field Blank	
Thief River Falls 11-07			1040		DW				
Crookston 11-07			1140		DW				
Moorhead 11-07		11/07/22	1415		DW				
Pipestone 11-08		11/08/22	0917		DW				
FB-04			0917		DW			Field <del>Dupe</del> Blank	
Willmar 11-08			1135		DW				
St. Cloud 11-08			1450		DW				
FD-04		11/08/22			DW	X		Field Dupe	
Monticello 11-09		11/09/22	0745	G	DW	X			
Possible Hazard Identification <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological					Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months				
Deliverable Requested: I, II, III, IV, Other (specify)					Special Instructions/QC Requirements:				
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:			
Relinquished by:		Date/Time: 11/10/22 0949		Company:		Received by:		Date/Time: 11/10/22 1010	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:	
Custody Seals Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 2.5					

SR

MP

**Eurofins Lancaster Laboratories Environme**

2425 New Holland Pike  
Lancaster, PA 17601  
Phone (717) 656-2300

**Chain of Custody Record**



<b>Client Information</b>		Sampler: <u>Russell Howard</u>		Lab PM: Brown, Nicole		Carrier Tracking No(s):		COC No: 410-66948-18289.3																																																					
Client Contact: Russell Howard		Phone: <u>214-300-5496/320-614-2617</u>		E-Mail: Nicole.Brown@et.eurofinsus.com		State of Origin: MN		Page: <u>2 of 2</u>																																																					
Company: MN Dept of Military Affairs Facilities Management Office		PWSID:		<b>Analysis Requested</b>						Job #:																																																			
Address: 15000 Highway 115 Camp Ripley Building 2-1		Due Date Requested:		<table border="1"> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </table>																																																								Preservation Codes:	
City: Little Falls		TAT Requested (days):		A - HCL		M - Hexane		N - None																																																					
State, Zip: MN, 56345-4173		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No		C - Zn Acetate		O - AsNaO2		P - Na2O4S																																																					
Phone: 214-300-5496(Tel)		PO #: Requested		D - Nitric Acid		Q - Na2S03		R - Na2S203																																																					
Email: russell.d.howard7.nfg@army.mil		WO #:		E - NaHSO4		S - H2SO4		T - TSP Dodecahydrate																																																					
Project Name: PFAS in DW by EPA 537.1		Project #: 41007393		F - MeOH		U - Acetone		V - MCAA																																																					
Site:		SSOW#:		G - Amchlor		W - pH 4-5		Y - Trizma																																																					
				H - Ascorbic Acid		Z - other (specify)		Other:																																																					
				I - Ice																																																									
				J - DI Water																																																									
				K - EDTA																																																									
				L - EDA																																																									
<b>Sample Identification</b>		<b>Sample Date</b>		<b>Sample Time</b>		<b>Sample Type (C=comp, G=grab)</b>		<b>Matrix (W=water, S=solid, O=oil, BT=Tissue, A=Air)</b>		<b>Special Instructions/Note:</b>																																																			
FB-05		11/09/22		0745		G		DW		X																																																			
Anoka 11-09		↓		0843		↓		DW		↓																																																			
Blaine 11-09		↓		0920		↓		DW		↓																																																			
Stillwater 11-09		↓		1011		↓		DW		↓																																																			
Hastings 11-09		↓		1100		↓		DW		↓																																																			
Cottage Grove 11-09		↓		1250		↓		DW		↓																																																			
IGH 11-09		↓		1321		↓		DW		↓																																																			
St. Paul 11-09		↓		1353		↓		DW		↓																																																			
Bloomington 11-09		↓		1440		↓		DW		↓																																																			
Minneapolis 11-09		11/09/22		1515		G		DW		X																																																			
								DW																																																					
<b>Possible Hazard Identification</b>						<b>Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)</b>																																																							
<input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological						<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months																																																							
Deliverable Requested: I, II, III, IV, Other (specify)						Special Instructions/QC Requirements:																																																							
Empty Kit Relinquished by:				Date:		Time:		Method of Shipment:																																																					
Relinquished by: <u>[Signature]</u>				Date/Time: 11/10/22 0949		Company:		Received by:		Date/Time:																																																			
Relinquished by:				Date/Time:		Company:		Received by:		Date/Time:																																																			
Relinquished by:				Date/Time:		Company:		Received by: <u>[Signature]</u>		Date/Time: 11/10/22 1000																																																			
Custody Seals Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: <u>2.5</u>																																																									

SR

# Login Sample Receipt Checklist

Client: MN Dept of Military Affairs Facilities Management Office

Job Number: 410-105518-1

**Login Number: 105518**

**List Source: Eurofins Lancaster Laboratories Environment Testing, LLC**

**List Number: 1**

**Creator: Roth, Stephanie**

Question	Answer	Comment
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable ( $\leq 6^{\circ}\text{C}$ , not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable ( $\leq 6^{\circ}\text{C}$ , not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	True	
Sample custody seals are intact.	N/A	
VOA sample vials do not have headspace $>6\text{mm}$ in diameter (none, if from WV)?	N/A	