

Final Report

Minnesota Department of Health
Public Health Laboratory
Environmental Laboratory Section
601 Robert St. N., P.O. Box 64899
St. Paul, MN 55164-0899
651-201-5300

PWSID: 1470003
System Name: Dassel
City: Dassel

Program Code: HC

Type: B

Date Received: 02/13/25 16:16
Rep. Temp. (°C): 2.5

Collector Name: Holden Minnichsoffer
Collector ID: None

MDH Sample Number: 25B0901-01

Location ID: E01
Sampling Point: TREATMENT PLANT #1

Collect Date: 02/11/25
Collect Time: 09:33
Matrix: Drinking Water

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO4 Result: None

Results were produced by the Minnesota Department of Health, except where noted.

PFAS in Water 533

Analyte	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Init.	Method	Qualifiers
11CI-PF3OUdS	<	1.8	ng/L	B5B0915	02/25/25 07:27	03/06/25 16:55	ZWD	EPA 533	
4:2FTS	<	1.8	ng/L	B5B0915	02/25/25 07:27	03/06/25 16:55	ZWD	EPA 533	
6:2FTS	<	1.8	ng/L	B5B0915	02/25/25 07:27	03/06/25 16:55	ZWD	EPA 533	
8:2FTS	<	1.8	ng/L	B5B0915	02/25/25 07:27	03/06/25 16:55	ZWD	EPA 533	
9CI-PF3ONS	<	1.8	ng/L	B5B0915	02/25/25 07:27	03/06/25 16:55	ZWD	EPA 533	
ADONA	<	1.8	ng/L	B5B0915	02/25/25 07:27	03/06/25 16:55	ZWD	EPA 533	
HFPO-DA	<	1.8	ng/L	B5B0915	02/25/25 07:27	03/06/25 16:55	ZWD	EPA 533	
NEtFOSAA	<	1.8	ng/L	B5B0915	02/25/25 07:27	03/06/25 16:55	ZWD	EPA 533	
NFDHA	<	1.8	ng/L	B5B0915	02/25/25 07:27	03/06/25 16:55	ZWD	EPA 533	
PFBA	<	1.8	ng/L	B5B0915	02/25/25 07:27	03/06/25 16:55	ZWD	EPA 533	
PFBS	<	1.8	ng/L	B5B0915	02/25/25 07:27	03/06/25 16:55	ZWD	EPA 533	
PFDA	<	1.8	ng/L	B5B0915	02/25/25 07:27	03/06/25 16:55	ZWD	EPA 533	
PFDoA	<	1.8	ng/L	B5B0915	02/25/25 07:27	03/06/25 16:55	ZWD	EPA 533	
PFEESA	<	1.8	ng/L	B5B0915	02/25/25 07:27	03/06/25 16:55	ZWD	EPA 533	
PFHpA	<	1.8	ng/L	B5B0915	02/25/25 07:27	03/06/25 16:55	ZWD	EPA 533	
PFHpS	<	1.8	ng/L	B5B0915	02/25/25 07:27	03/06/25 16:55	ZWD	EPA 533	
PFHxA	<	1.8	ng/L	B5B0915	02/25/25 07:27	03/06/25 16:55	ZWD	EPA 533	
PFHxS	<	1.8	ng/L	B5B0915	02/25/25 07:27	03/06/25 16:55	ZWD	EPA 533	
PFMBA	<	1.8	ng/L	B5B0915	02/25/25 07:27	03/06/25 16:55	ZWD	EPA 533	
PFMPA	<	1.8	ng/L	B5B0915	02/25/25 07:27	03/06/25 16:55	ZWD	EPA 533	
PFNA	<	1.8	ng/L	B5B0915	02/25/25 07:27	03/06/25 16:55	ZWD	EPA 533	
PFOA	<	1.8	ng/L	B5B0915	02/25/25 07:27	03/06/25 16:55	ZWD	EPA 533	
PFOS	<	1.8	ng/L	B5B0915	02/25/25 07:27	03/06/25 16:55	ZWD	EPA 533	
PFPeA	<	1.8	ng/L	B5B0915	02/25/25 07:27	03/06/25 16:55	ZWD	EPA 533	
PFPeS	<	1.8	ng/L	B5B0915	02/25/25 07:27	03/06/25 16:55	ZWD	EPA 533	
PFUnA	<	1.8	ng/L	B5B0915	02/25/25 07:27	03/06/25 16:55	ZWD	EPA 533	

FINAL REPORT

Report ID: 03172025143113

Generated: 3/17/2025 2:30:59PM

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Stefan Saravia, Environmental Laboratory Manager
Public Health Laboratory, Minnesota Department of Health

PWSID: 1470003

MDH Sample Number: 25B0901-02

Location ID: None
Sampling Point: Field Blank

Collect Date: 02/11/25
Collect Time: 09:33
Matrix: Drinking Water

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO₄ Result: None

Results were produced by the Minnesota Department of Health, except where noted.

PFAS in Water 533

Analyte	Result	Reporting Limit	Units	Batch	Prepared	Analyzed	Init.	Method	Qualifiers
11CI-PF3OUdS	<	1.8	ng/L	B5B0915	02/25/25 07:27	03/06/25 17:09	ZWD	EPA 533	
4:2FTS	<	1.8	ng/L	B5B0915	02/25/25 07:27	03/06/25 17:09	ZWD	EPA 533	
6:2FTS	<	1.8	ng/L	B5B0915	02/25/25 07:27	03/06/25 17:09	ZWD	EPA 533	
8:2FTS	<	1.8	ng/L	B5B0915	02/25/25 07:27	03/06/25 17:09	ZWD	EPA 533	
9CI-PF3ONS	<	1.8	ng/L	B5B0915	02/25/25 07:27	03/06/25 17:09	ZWD	EPA 533	
ADONA	<	1.8	ng/L	B5B0915	02/25/25 07:27	03/06/25 17:09	ZWD	EPA 533	
HFPO-DA	<	1.8	ng/L	B5B0915	02/25/25 07:27	03/06/25 17:09	ZWD	EPA 533	
NEtFOSAA	<	1.8	ng/L	B5B0915	02/25/25 07:27	03/06/25 17:09	ZWD	EPA 533	
NFDHA	<	1.8	ng/L	B5B0915	02/25/25 07:27	03/06/25 17:09	ZWD	EPA 533	
PFBA	<	1.8	ng/L	B5B0915	02/25/25 07:27	03/06/25 17:09	ZWD	EPA 533	
PFBS	<	1.8	ng/L	B5B0915	02/25/25 07:27	03/06/25 17:09	ZWD	EPA 533	
PFDA	<	1.8	ng/L	B5B0915	02/25/25 07:27	03/06/25 17:09	ZWD	EPA 533	
PFDaA	<	1.8	ng/L	B5B0915	02/25/25 07:27	03/06/25 17:09	ZWD	EPA 533	
PFEESA	<	1.8	ng/L	B5B0915	02/25/25 07:27	03/06/25 17:09	ZWD	EPA 533	
PFHpA	<	1.8	ng/L	B5B0915	02/25/25 07:27	03/06/25 17:09	ZWD	EPA 533	
PFHpS	<	1.8	ng/L	B5B0915	02/25/25 07:27	03/06/25 17:09	ZWD	EPA 533	
PFHxA	<	1.8	ng/L	B5B0915	02/25/25 07:27	03/06/25 17:09	ZWD	EPA 533	
PFHxS	<	1.8	ng/L	B5B0915	02/25/25 07:27	03/06/25 17:09	ZWD	EPA 533	
PFMBA	<	1.8	ng/L	B5B0915	02/25/25 07:27	03/06/25 17:09	ZWD	EPA 533	
PFMPA	<	1.8	ng/L	B5B0915	02/25/25 07:27	03/06/25 17:09	ZWD	EPA 533	
PFNA	<	1.8	ng/L	B5B0915	02/25/25 07:27	03/06/25 17:09	ZWD	EPA 533	
PFOA	<	1.8	ng/L	B5B0915	02/25/25 07:27	03/06/25 17:09	ZWD	EPA 533	
PFOS	<	1.8	ng/L	B5B0915	02/25/25 07:27	03/06/25 17:09	ZWD	EPA 533	
PFPeA	<	1.8	ng/L	B5B0915	02/25/25 07:27	03/06/25 17:09	ZWD	EPA 533	
PFPeS	<	1.8	ng/L	B5B0915	02/25/25 07:27	03/06/25 17:09	ZWD	EPA 533	
PFUnA	<	1.8	ng/L	B5B0915	02/25/25 07:27	03/06/25 17:09	ZWD	EPA 533	

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Stefan Saravia, Environmental Laboratory Manager
Public Health Laboratory, Minnesota Department of Health

PWSID: 1470003

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Batch B5B0915 - PFAS in Water by 533

Blank (B5B0915-BLK1)

Prepared: 02/25/25 07:27 Analyzed: 03/06/25 13:44

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Init.	Qualifiers
11CI-PF3OUdS	<	1.6	ng/L							ZWD	
4:2FTS	<	1.6	ng/L							ZWD	
6:2FTS	<	1.6	ng/L							ZWD	
8:2FTS	<	1.6	ng/L							ZWD	
9CI-PF3ONS	<	1.6	ng/L							ZWD	
ADONA	<	1.6	ng/L							ZWD	
HFPO-DA	<	1.6	ng/L							ZWD	
NEtFOSAA	<	1.6	ng/L							ZWD	
NFDHA	<	1.6	ng/L							ZWD	
PFBA	<	1.6	ng/L							ZWD	
PFBS	<	1.6	ng/L							ZWD	
PFDA	<	1.6	ng/L							ZWD	
PFDaA	<	1.6	ng/L							ZWD	
PFEESA	<	1.6	ng/L							ZWD	
PFHpA	<	1.6	ng/L							ZWD	
PFHpS	<	1.6	ng/L							ZWD	
PFHxA	<	1.6	ng/L							ZWD	
PFHxS	<	1.6	ng/L							ZWD	
PFMBA	<	1.6	ng/L							ZWD	
PFMPA	<	1.6	ng/L							ZWD	
PFNA	<	1.6	ng/L							ZWD	
PFOA	<	1.6	ng/L							ZWD	
PFOS	<	1.6	ng/L							ZWD	
PFPeA	<	1.6	ng/L							ZWD	
PFPeS	<	1.6	ng/L							ZWD	
PFUnA	<	1.6	ng/L							ZWD	

LCS (B5B0915-BS1)

Prepared: 02/25/25 07:27 Analyzed: 03/06/25 13:31

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Init.	Qualifiers
11CI-PF3OUdS	38	1.6	ng/L	37.76		100	70-130			ZWD	
4:2FTS	40	1.6	ng/L	37.52		106	70-130			ZWD	
6:2FTS	42	1.6	ng/L	38.08		111	70-130			ZWD	
8:2FTS	37	1.6	ng/L	38.4		96	70-130			ZWD	
9CI-PF3ONS	39	1.6	ng/L	37.36		105	70-130			ZWD	
ADONA	40	1.6	ng/L	37.84		105	70-130			ZWD	
HFPO-DA	43	1.6	ng/L	40		107	70-130			ZWD	
NEtFOSAA	40	1.6	ng/L	40		101	70-130			ZWD	

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PWSID: 1470003

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Batch B5B0915 - PFAS in Water by 533

LCS (B5B0915-BS1)

Prepared: 02/25/25 07:27 Analyzed: 03/06/25 13:31

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Init.	Qualifiers
NFDHA	43	1.6	ng/L	40		106	70-130			ZWD	
PFBA	44	1.6	ng/L	40		109	70-130			ZWD	
PFBS	39	1.6	ng/L	35.52		111	70-130			ZWD	
PFDA	44	1.6	ng/L	40		109	70-130			ZWD	
PFDoA	42	1.6	ng/L	40		105	70-130			ZWD	
PFEESA	39	1.6	ng/L	35.68		111	70-130			ZWD	
PFHpA	42	1.6	ng/L	40		106	70-130			ZWD	
PFHpS	45	1.6	ng/L	38.16		119	70-130			ZWD	
PFHxA	42	1.6	ng/L	40		106	70-130			ZWD	
PFHxS	40	1.6	ng/L	36.48		109	70-130			ZWD	
PFMBA	43	1.6	ng/L	40		108	70-130			ZWD	
PFMPA	43	1.6	ng/L	40		107	70-130			ZWD	
PFNA	43	1.6	ng/L	40		107	70-130			ZWD	
PFOA	42	1.6	ng/L	40		105	70-130			ZWD	
PFOS	41	1.6	ng/L	37.12		111	70-130			ZWD	
PFPeA	43	1.6	ng/L	40		107	70-130			ZWD	
PFPeS	40	1.6	ng/L	37.6		107	70-130			ZWD	
PFUnA	42	1.6	ng/L	40		104	70-130			ZWD	

Matrix Spike (B5B0915-MS1)

Source: 25B0900-01

Prepared: 02/25/25 07:27 Analyzed: 03/06/25 16:01

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Init.	Qualifiers
11CI-PF3OUdS	16	1.6	ng/L	15.35	<	105	70-130			ZWD	
4:2FTS	15	1.6	ng/L	15.25	<	101	70-130			ZWD	
6:2FTS	18	1.6	ng/L	15.48	<	118	70-130			ZWD	
8:2FTS	17	1.6	ng/L	15.61	<	109	70-130			ZWD	
9CI-PF3ONS	16	1.6	ng/L	15.19	<	105	70-130			ZWD	
ADONA	17	1.6	ng/L	15.38	<	108	70-130			ZWD	
HFPO-DA	18	1.6	ng/L	16.26	<	112	70-130			ZWD	
NEtFOSAA	16	1.6	ng/L	16.26	<	101	70-130			ZWD	
NFDHA	18	1.6	ng/L	16.26	<	109	70-130			ZWD	
PFBA	18	1.6	ng/L	16.26	<	113	70-130			ZWD	
PFBS	16	1.6	ng/L	14.44	<	113	70-130			ZWD	
PFDA	18	1.6	ng/L	16.26	<	113	70-130			ZWD	
PFDoA	18	1.6	ng/L	16.26	<	109	70-130			ZWD	
PFEESA	16	1.6	ng/L	14.51	<	109	70-130			ZWD	
PFHpA	18	1.6	ng/L	16.26	<	109	70-130			ZWD	
PFHpS	18	1.6	ng/L	15.51	<	118	70-130			ZWD	

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Public Health Laboratory, Minnesota Department of Health

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Batch B5B0915 - PFAS in Water by 533

Matrix Spike (B5B0915-MS1)

Source: 25B0900-01

Prepared: 02/25/25 07:27 Analyzed: 03/06/25 16:01

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Init.	Qualifiers
PFHxA	17	1.6	ng/L	16.26	<	106	70-130			ZWD	
PFHxS	16	1.6	ng/L	14.83	<	109	70-130			ZWD	
PFMBA	18	1.6	ng/L	16.26	<	112	70-130			ZWD	
PFMPA	20	1.6	ng/L	16.26	<	121	70-130			ZWD	
PFNA	18	1.6	ng/L	16.26	<	109	70-130			ZWD	
PFOA	17	1.6	ng/L	16.26	<	106	70-130			ZWD	
PFOS	16	1.6	ng/L	15.09	<	106	70-130			ZWD	
PFPeA	18	1.6	ng/L	16.26	<	108	70-130			ZWD	
PFPeS	16	1.6	ng/L	15.29	<	106	70-130			ZWD	
PFUnA	18	1.6	ng/L	16.26	<	108	70-130			ZWD	

Matrix Spike Dup (B5B0915-MSD1)

Source: 25B0900-01

Prepared: 02/25/25 07:27 Analyzed: 03/06/25 16:14

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Init.	Qualifiers
11CI-PF3OUdS	16	1.6	ng/L	15.41	<	101	70-130	4	30	ZWD	
4:2FTS	15	1.6	ng/L	15.31	<	99	70-130	1	30	ZWD	
6:2FTS	16	1.6	ng/L	15.54	<	106	70-130	11	30	ZWD	
8:2FTS	16	1.6	ng/L	15.67	<	103	70-130	5	30	ZWD	
9CI-PF3ONS	15	1.6	ng/L	15.24	<	100	70-130	5	30	ZWD	
ADONA	16	1.6	ng/L	15.44	<	104	70-130	4	30	ZWD	
HFPO-DA	17	1.6	ng/L	16.32	<	105	70-130	5	30	ZWD	
NEtFOSAA	17	1.6	ng/L	16.32	<	106	70-130	6	30	ZWD	
NFDHA	17	1.6	ng/L	16.32	<	104	70-130	4	30	ZWD	
PFBA	17	1.6	ng/L	16.32	<	106	70-130	6	30	ZWD	
PFBS	15	1.6	ng/L	14.49	<	106	70-130	6	30	ZWD	
PFDA	17	1.6	ng/L	16.32	<	104	70-130	8	30	ZWD	
PFDaA	17	1.6	ng/L	16.32	<	103	70-130	5	30	ZWD	
PFEESA	16	1.6	ng/L	14.56	<	107	70-130	1	30	ZWD	
PFHpA	17	1.6	ng/L	16.32	<	101	70-130	7	30	ZWD	
PFHpS	17	1.6	ng/L	15.57	<	107	70-130	9	30	ZWD	
PFHxA	17	1.6	ng/L	16.32	<	107	70-130	1	30	ZWD	
PFHxS	15	1.6	ng/L	14.89	<	103	70-130	5	30	ZWD	
PFMBA	18	1.6	ng/L	16.32	<	108	70-130	3	30	ZWD	
PFMPA	18	1.6	ng/L	16.32	<	109	70-130	10	30	ZWD	
PFNA	17	1.6	ng/L	16.32	<	107	70-130	1	30	ZWD	
PFOA	17	1.6	ng/L	16.32	<	102	70-130	3	30	ZWD	
PFOS	16	1.6	ng/L	15.15	<	104	70-130	1	30	ZWD	
PFPeA	17	1.6	ng/L	16.32	<	106	70-130	2	30	ZWD	

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Public Health Laboratory, Minnesota Department of Health

PWSID: 1470003

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Batch B5B0915 - PFAS in Water by 533

Matrix Spike Dup (B5B0915-MSD1)

Source: 25B0900-01

Prepared: 02/25/25 07:27 Analyzed: 03/06/25 16:14

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Init.	Qualifiers
PFPeS	15	1.6	ng/L	15.34	<	100	70-130	6	30	ZWD	
PFUnA	17	1.6	ng/L	16.32	<	104	70-130	4	30	ZWD	

Work Order Comments

Samples were received in proper condition.

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