

Polyfluoroalkyl Substances (PFAS)

Phase 5 Sampling

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Maryland
Department of
the Environment

Wes Moore, Governor
Aruna Miller, Lt. Governor

Serena McIlwain, Secretary
Suzanne E. Dorsey, Deputy Secretary

August 29, 2024

John Timcheck
Carroll County Public Schools
125 N. Court St.
Westminster, MD 21157

**Re: Follow-Up: Per- and Polyfluoroalkyl Substances (PFAS) Phase 5 Sampling
Mechanicsville Elementary, 106-0054**

Dear John Timcheck:

Enclosed in this letter are the PFAS results for the samples collected from your system on July 29, 2024. The Maryland Department of Health Laboratories Administration tested the sample for 25 PFAS under U.S. Environmental Protection Agency (EPA) Method 533.

The EPA recently announced finalized regulatory standards for six of the most prevalent PFAS compounds: PFOA, PFOS, PFBS, PFHxS, PFNA, and HFPO-DA (GenX). Under EPA's new regulations, non-transient non-community water systems will be regulated and required to monitor for PFAS on a routine basis. All public water systems under these regulations will be required to begin monitoring for PFAS by 2027 with requirements to be in compliance by 2029.

These PFAS compounds were detected in your water sample at the concentrations listed below. All results are below EPA's regulatory standards. Under each PFAS compound are the individual Maximum Contaminant Levels (MCL) or Health Based Water Concentrations (HBWC) in which the EPA regulations are based. For a full breakdown of all 25 PFAS analyte concentrations, refer to the results on the following page.

Sample	PFOA	PFOS	PFBS	PFHxS	PFNA	HFPO-DA (GenX)	Hazard Index ^a
	<i>MCL - 4.0 ppt</i>	<i>MCL - 4.0 ppt</i>	<i>HBWC - 2000 ppt</i>	<i>MCL - 10 ppt</i>	<i>MCL - 10 ppt</i>	<i>MCL - 10 ppt</i>	<i>HI - 1.0</i>
TP01	<RL	1.75	1.95	7.01	<RL	<RL	0.7

Results in red show concentrations that exceed EPA's regulations. <RL = Reporting Limit

^a The Hazard Index (HI) considers the combined concentrations of PFBS, PFHxS, PFNA, and HFPO-DA, in drinking water. HI greater than 1.0, is a violation of the EPA MCL.

No further action is recommended at this time. As mentioned above, your water system will be required to begin monitoring for PFAS by 2027. MDE will be reaching out with further guidance regarding this.

For more information about PFAS monitoring and reporting requirements, please refer to the EPA fact sheet linked below:

[EPA: PFAS Monitoring and Reporting Fact Sheet](#)

If you have any questions, contact me at 410-537-3065 or Diana.Kremer@maryland.gov.

Sincerely,

Diana Kremer

Diana Kremer
Water Supply Program



State of Maryland
Department of Health
LABORATORIES ADMINISTRATION
1770 Ashland Avenue
Baltimore, MD 21205
Robert Myers, Ph.D., Director

Division of Environmental Sciences
CHEMICAL EMERGENCY PREPAREDNESS AND RESPONSE LABORATORY

Certificate of Analysis

FINAL REPORT

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Field ID: 106-0054-TP01
Submitted By: Shawn Lowman
Date Collected: 07/29/2024

Information in this section was not generated by the laboratory

Lab No: PF2500004910
Date Received: 07/29/2024

Date Analyzed: 08/15/2024

<u>Analyte</u>	<u>Method</u>	<u>RL</u>	<u>Result</u> [†]	<u>Uncertainty</u>	<u>Units</u>
PFBA	EPA 533	1.0	1.34	± 18.6%	ppt
PFPeA	EPA 533	1.0	2.36	± 18.4%	ppt
PFHxA	EPA 533	1.0	2.42	± 17.2%	ppt
PFHpA	EPA 533	1.0	0.842 [†]	± 26.6%	ppt
PFOA	EPA 533	1.0	0.944 [†]	± 23.4%	ppt
PFNA	EPA 533	1.0	ND	± 24.4%	ppt
PFDA	EPA 533	1.5	ND	± 18.7%	ppt
PFUnDA	EPA 533	1.0	ND	± 25.9%	ppt
PFDOA	EPA 533	1.0	ND	± 15.8%	ppt
PFBS	EPA 533	1.0	1.95	± 19.6%	ppt
PFPeS	EPA 533	1.0	1.05	± 25.9%	ppt
PFHxS	EPA 533	1.5	7.01	± 19.5%	ppt
PFHpS	EPA 533	1.0	ND	± 26.1%	ppt
PFOS	EPA 533	1.0	1.75	± 19.0%	ppt
4-2 FTS	EPA 533	1.0	ND	± 18.2%	ppt
6-2 FTS	EPA 533	1.5	ND	± 17.5%	ppt
8-2 FTS	EPA 533	1.0	ND	± 17.7%	ppt
HFPO-DA	EPA 533	1.0	ND	± 21.2%	ppt
ADONA	EPA 533	1.0	ND	± 22.8%	ppt
9CI-PF3ONS	EPA 533	1.0	ND	± 17.3%	ppt

Approved by:

Shawn Lowman

Approval date: 08/27/2024

Samples are tested as received. Results relate only to the items tested.

ND= Below the Method Detection Limit (MDL) or 1/3 Reporting Level (RL)

Methods marked with an asterisk (*) are included in our A2LA scope of accreditation.

Results marked with a cross (†) are above the Method Detection Limit (MDL) but below the Reporting Level (RL)

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Contact information for Questions: Telephone: (443) 681-3857 Fax: (443) 681-4507

PF2500004910

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1770 Ashland Avenue
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Robert Myers, Ph.D., Director

Division of Environmental Sciences
CHEMICAL EMERGENCY PREPAREDNESS AND RESPONSE LABORATORY

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FINAL REPORT

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Field ID: 106-0054-TP01
Submitted By: Shawn Lowman
Date Collected: 07/29/2024

Information in this section was not generated by the laboratory

Lab No: PF2500004910
Date Received: 07/29/2024

Date Analyzed: 08/15/2024

<u>Analyte</u>	<u>Method</u>	<u>RL</u>	<u>Result</u> [†]	<u>Uncertainty</u>	<u>Units</u>
11CI-PF3OUdS	EPA 533	1.0	ND	± 23.9%	ppt
PFEESA	EPA 533	1.0	ND	± 17.4%	ppt
PFMPA	EPA 533	1.0	ND	± 22.2%	ppt
PFMBA	EPA 533	1.0	ND	± 23.7%	ppt
NFDHA	EPA 533	2.5	ND	± 28.2%	ppt

Approved by:

Sadia Muneeb

Approval date: 08/27/2024

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FINAL REPORT

Folder No:	PF25000049	Date/Time Logged:	08/06/2024 10:00
Sample ID:	PF2500004910	Temperature Control:	Refrigerated
Date Received in Lab:	07/29/2024	Sample Condition:	Acceptable
Sample Received By:		Received Under Chain of Custody (COC)?	No

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Field ID: 106-0054-TP01
Submitted By: Shawn Lowman
Date Collected: 07/29/2024

Field ID: 106-0054-TP01
County: Carroll

Collected By: Shawn Lowman
County Code: 06

Plant: 0054
Sample Station: TP01
Site Name: Mechanicsville Elementary School
Sample Source: POE Tap
Location: 3838 Sykesville Road
Long/Lat:

Submitter Code: Water Quality Monitoring Program (52)
Reason For Testing: Routine
Data Category Code: 4A
Regulation Supported: SDWA
Federal Project: Safe Drinking Water Act (SDWA) (S)

Sample Preserved By: Ammonium Acetate
Sample pH: 6.5
Free Chlorine: 0.0
Total Chlorine: 0.0
Comment:

Sample Type: Drinking Water
System Type: Non-Community
Source Descriptor: Water Treatment Plant POE

Collector Phone: (410) 294-7884
Collection Date/Time: 07/29/2024 10:15

Analysis Requested
DW PFAS - 533

Information in this section was not generated by the laboratory

Approved by:

Sadia Akbar

Approval date: 08/27/2024

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FINAL REPORT

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Field ID: FB-106-0054-TP01

Submitted By: Shawn Lowman

Date Collected: 07/29/2024

Information in this section was not generated by the laboratory

Lab No: PF2500004909

Date Received: 07/29/2024

Date Analyzed: 08/15/2024

<u>Analyte</u>	<u>Method</u>	<u>RL</u>	<u>Result</u> [†]	<u>Uncertainty</u>	<u>Units</u>
PFBA	EPA 533	1.0	ND	± 18.6%	ppt
PFPeA	EPA 533	1.0	ND	± 18.4%	ppt
PFHxA	EPA 533	1.0	ND	± 17.2%	ppt
PFHpA	EPA 533	1.0	ND	± 26.6%	ppt
PFOA	EPA 533	1.0	ND	± 23.4%	ppt
PFNA	EPA 533	1.0	ND	± 24.4%	ppt
PFDA	EPA 533	1.5	ND	± 18.7%	ppt
PFUnDA	EPA 533	1.0	ND	± 25.9%	ppt
PFDOA	EPA 533	1.0	ND	± 15.8%	ppt
PFBS	EPA 533	1.0	ND	± 19.6%	ppt
PFPeS	EPA 533	1.0	ND	± 25.9%	ppt
PFHxS	EPA 533	1.5	ND	± 19.5%	ppt
PFHpS	EPA 533	1.0	ND	± 26.1%	ppt
PFOS	EPA 533	1.0	ND	± 19.0%	ppt
4-2 FTS	EPA 533	1.0	ND	± 18.2%	ppt
6-2 FTS	EPA 533	1.5	ND	± 17.5%	ppt
8-2 FTS	EPA 533	1.0	ND	± 17.7%	ppt
HFPO-DA	EPA 533	1.0	ND	± 21.2%	ppt
ADONA	EPA 533	1.0	ND	± 22.8%	ppt
9CI-PF3ONS	EPA 533	1.0	ND	± 17.3%	ppt

Approved by:

Sadia Muneeb

Approval date: 08/27/2024

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PF2500004909

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FINAL REPORT

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Field ID: FB-106-0054-TP01

Submitted By: Shawn Lowman

Date Collected: 07/29/2024

Information in this section was not generated by the laboratory

Lab No: PF2500004909

Date Received: 07/29/2024

Date Analyzed: 08/15/2024

<u>Analyte</u>	<u>Method</u>	<u>RL</u>	<u>Result</u> [†]	<u>Uncertainty</u>	<u>Units</u>
11CI-PF3OUdS	EPA 533	1.0	ND	± 23.9%	ppt
PFEESA	EPA 533	1.0	ND	± 17.4%	ppt
PFMPA	EPA 533	1.0	ND	± 22.2%	ppt
PFMBA	EPA 533	1.0	ND	± 23.7%	ppt
NFDHA	EPA 533	2.5	ND	± 28.2%	ppt

Approved by:

Shawn Lowman

Approval date: 08/27/2024

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FINAL REPORT

Folder No:	PF25000049	Date/Time Logged:	08/06/2024 10:00
Sample ID:	PF2500004909	Temperature Control:	Refrigerated
Date Received in Lab:	07/29/2024	Sample Condition:	Acceptable
Sample Received By:		Received Under Chain of Custody (COC)?	No

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Field ID: FB-106-0054-TP01
Submitted By: Shawn Lowman
Date Collected: 07/29/2024

Field ID: FB-106-0054-TP01
County: Carroll
Plant: 0054
Sample Station: TP01
Site Name: Mechanicsville Elementary School
Sample Source: PFAS Free Water
Location: 3838 Sykesville Road
Long/Lat:

Collected By: Shawn Lowman
County Code: 06
Submitter Code: Water Quality Monitoring Program (52)
Reason For Testing: Routine
Data Category Code: 4A
Regulation Supported: SDWA
Federal Project: Safe Drinking Water Act (SDWA) (S)

Sample Preserved By: Ammonium Acetate
Sample pH: NA
Free Chlorine: NA
Total Chlorine: NA
Comment: Field Blank

Sample Type: Drinking Water
System Type: Non-Community
Source Descriptor: Water Treatment Plant POE
Collector Phone: (410) 294-7884
Collection Date/Time: 07/29/2024 10:15

Analysis Requested
DW PFAS - 533

Information in this section was not generated by the laboratory

Approved by:

Sadia Muneeb

Approval date: 08/27/2024

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PF2500004909

Page 3 of 3



August 29, 2024

John Timcheck
Carroll County Public Schools
125 N. Court St.
Westminster, MD 21157

**Re: Follow-Up: Per- and Polyfluoroalkyl Substances (PFAS) Phase 5 Sampling
Runnymede Elementary, 106-0058**

Dear John Timcheck:

Enclosed in this letter are the PFAS results for the samples collected from your system on July 29, 2024. The Maryland Department of Health Laboratories Administration tested the sample for 25 PFAS under U.S. Environmental Protection Agency (EPA) Method 533.

The EPA recently announced finalized regulatory standards for six of the most prevalent PFAS compounds: PFOA, PFOS, PFBS, PFHxS, PFNA, and HFPO-DA (GenX). Under EPA's new regulations, non-transient non-community water systems will be regulated and required to monitor for PFAS on a routine basis. All public water systems under these regulations will be required to begin monitoring for PFAS by 2027 with requirements to be in compliance by 2029.

These PFAS compounds were detected in your water sample at the concentrations listed below. All results are below EPA's regulatory standards. Under each PFAS compound are the individual Maximum Contaminant Levels (MCL) or Health Based Water Concentrations (HBWC) in which the EPA regulations are based. For a full breakdown of all 25 PFAS analyte concentrations, refer to the results on the following page.

Sample	PFOA	PFOS	PFBS	PFHxS	PFNA	HFPO-DA (GenX)	Hazard Index ^a
	MCL - 4.0 ppt	MCL - 4.0 ppt	HBWC - 2000 ppt	MCL - 10 ppt	MCL - 10 ppt	MCL - 10 ppt	HI - 1.0
TP01	<RL	<RL	<RL	<RL	<RL	<RL	0

Results in red show concentrations that exceed EPA's regulations. <RL = Reporting Limit

^a The Hazard Index (HI) considers the combined concentrations of PFBS, PFHxS, PFNA, and HFPO-DA, in drinking water. HI greater than 1.0, is a violation of the EPA MCL.

No further action is recommended at this time. As mentioned above, your water system will be required to begin monitoring for PFAS by 2027. MDE will be reaching out with further guidance regarding this.

For more information about PFAS monitoring and reporting requirements, please refer to the EPA fact sheet linked below:

[EPA: PFAS Monitoring and Reporting Fact Sheet](#)

If you have any questions, contact me at 410-537-3065 or Diana.Kremer@maryland.gov.

Sincerely,

Diana Kremer

Diana Kremer
Water Supply Program



State of Maryland
Department of Health
LABORATORIES ADMINISTRATION
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Baltimore, MD 21205
Robert Myers, Ph.D., Director

Division of Environmental Sciences
CHEMICAL EMERGENCY PREPAREDNESS AND RESPONSE LABORATORY

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FINAL REPORT

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Field ID: 106-0058-TP01
Submitted By: Shawn Lowman
Date Collected: 07/29/2024

Information in this section was not generated by the laboratory

Lab No: PF2500004908
Date Received: 07/29/2024

Date Analyzed: 08/15/2024

<u>Analyte</u>	<u>Method</u>	<u>RL</u>	<u>Result</u> [†]	<u>Uncertainty</u>	<u>Units</u>
PFBA	EPA 533	1.0	ND	± 18.6%	ppt
PFPeA	EPA 533	1.0	ND	± 18.4%	ppt
PFHxA	EPA 533	1.0	ND	± 17.2%	ppt
PFHpA	EPA 533	1.0	ND	± 26.6%	ppt
PFOA	EPA 533	1.0	ND	± 23.4%	ppt
PFNA	EPA 533	1.0	ND	± 24.4%	ppt
PFDA	EPA 533	1.5	ND	± 18.7%	ppt
PFUnDA	EPA 533	1.0	ND	± 25.9%	ppt
PFDOA	EPA 533	1.0	ND	± 15.8%	ppt
PFBS	EPA 533	1.0	ND	± 19.6%	ppt
PFPeS	EPA 533	1.0	ND	± 25.9%	ppt
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PFHpS	EPA 533	1.0	ND	± 26.1%	ppt
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ADONA	EPA 533	1.0	ND	± 22.8%	ppt
9CI-PF3ONS	EPA 533	1.0	ND	± 17.3%	ppt

Approved by:

Sadia Muneeb

Approval date: 08/27/2024

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MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Field ID: 106-0058-TP01
Submitted By: Shawn Lowman
Date Collected: 07/29/2024

Information in this section was not generated by the laboratory

Lab No: PF2500004908

Date Received: 07/29/2024

Date Analyzed: 08/15/2024

<u>Analyte</u>	<u>Method</u>	<u>RL</u>	<u>Result</u> [†]	<u>Uncertainty</u>	<u>Units</u>
11CI-PF3OUdS	EPA 533	1.0	ND	± 23.9%	ppt
PFEESA	EPA 533	1.0	ND	± 17.4%	ppt
PFMPA	EPA 533	1.0	ND	± 22.2%	ppt
PFMBA	EPA 533	1.0	ND	± 23.7%	ppt
NFDHA	EPA 533	2.5	ND	± 28.2%	ppt

Approved by: Sadia Munir

Approval date: 08/27/2024

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FINAL REPORT

Folder No:	PF25000049	Date/Time Logged:	08/06/2024 10:00
Sample ID:	PF2500004908	Temperature Control:	Refrigerated
Date Received in Lab:	07/29/2024	Sample Condition:	Acceptable
Sample Received By:		Received Under Chain of Custody (COC)?	No

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Field ID: 106-0058-TP01
Submitted By: Shawn Lowman
Date Collected: 07/29/2024

Field ID: 106-0058-TP01
County: Carroll

Collected By: Shawn Lowman
County Code: 06

Plant: 0058
Sample Station: TP01
Site Name: Runnymede Elementary School
Sample Source: POE Tap
Location: 3000 Langdon Drive
Long/Lat:

Submitter Code: Water Quality Monitoring Program (52)
Reason For Testing: Routine
Data Category Code: 4A
Regulation Supported: SDWA
Federal Project: Safe Drinking Water Act (SDWA) (S)

Sample Preserved By: Ammonium Acetate
Sample pH: 7.1
Free Chlorine: 0.7
Total Chlorine: 0.7
Comment:

Sample Type: Drinking Water
System Type: Non-Community
Source Descriptor: Water Treatment Plant POE

Collector Phone: (410) 294-7884
Collection Date/Time: 07/29/2024 09:20

Analysis Requested
DW PFAS - 533

Information in this section was not generated by the laboratory

Approved by: Sadia Munir

Approval date: 08/27/2024

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Department of Health
LABORATORIES ADMINISTRATION
1770 Ashland Avenue
Baltimore, MD 21205
Robert Myers, Ph.D., Director

Division of Environmental Sciences
CHEMICAL EMERGENCY PREPAREDNESS AND RESPONSE LABORATORY

Certificate of Analysis

FINAL REPORT

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Field ID: FB-106-0058-TP01

Submitted By: Shawn Lowman

Date Collected: 07/29/2024

Information in this section was not generated by the laboratory

Lab No: PF2500004907

Date Received: 07/29/2024

Date Analyzed: 08/15/2024

<u>Analyte</u>	<u>Method</u>	<u>RL</u>	<u>Result</u> [†]	<u>Uncertainty</u>	<u>Units</u>
PFBA	EPA 533	1.0	ND	± 18.6%	ppt
PFPeA	EPA 533	1.0	ND	± 18.4%	ppt
PFHxA	EPA 533	1.0	ND	± 17.2%	ppt
PFHpA	EPA 533	1.0	ND	± 26.6%	ppt
PFOA	EPA 533	1.0	ND	± 23.4%	ppt
PFNA	EPA 533	1.0	ND	± 24.4%	ppt
PFDA	EPA 533	1.5	ND	± 18.7%	ppt
PFUnDA	EPA 533	1.0	ND	± 25.9%	ppt
PFDOA	EPA 533	1.0	ND	± 15.8%	ppt
PFBS	EPA 533	1.0	ND	± 19.6%	ppt
PFPeS	EPA 533	1.0	ND	± 25.9%	ppt
PFHxS	EPA 533	1.5	ND	± 19.5%	ppt
PFHpS	EPA 533	1.0	ND	± 26.1%	ppt
PFOS	EPA 533	1.0	ND	± 19.0%	ppt
4-2 FTS	EPA 533	1.0	ND	± 18.2%	ppt
6-2 FTS	EPA 533	1.5	ND	± 17.5%	ppt
8-2 FTS	EPA 533	1.0	ND	± 17.7%	ppt
HFPO-DA	EPA 533	1.0	ND	± 21.2%	ppt
ADONA	EPA 533	1.0	ND	± 22.8%	ppt
9CI-PF3ONS	EPA 533	1.0	ND	± 17.3%	ppt

Approved by:

Approval date: 08/27/2024

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Contact information for Questions: Telephone: (443) 681-3857 Fax: (443) 681-4507

PF2500004907

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416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Field ID: FB-106-0058-TP01

Submitted By: Shawn Lowman

Date Collected: 07/29/2024

Information in this section was not generated by the laboratory

Lab No: PF2500004907

Date Received: 07/29/2024

Date Analyzed: 08/15/2024

<u>Analyte</u>	<u>Method</u>	<u>RL</u>	<u>Result</u> [†]	<u>Uncertainty</u>	<u>Units</u>
11CI-PF3OUdS	EPA 533	1.0	ND	± 23.9%	ppt
PFEESA	EPA 533	1.0	ND	± 17.4%	ppt
PFMPA	EPA 533	1.0	ND	± 22.2%	ppt
PFMBA	EPA 533	1.0	ND	± 23.7%	ppt
NFDHA	EPA 533	2.5	ND	± 28.2%	ppt

Approved by:

Sadia Muneer

Approval date: 08/27/2024

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CHEMICAL EMERGENCY PREPAREDNESS AND RESPONSE LABORATORY

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FINAL REPORT

Folder No:	PF25000049	Date/Time Logged:	08/06/2024 10:00
Sample ID:	PF2500004907	Temperature Control:	Refrigerated
Date Received in Lab:	07/29/2024	Sample Condition:	Acceptable
Sample Received By:		Received Under Chain of Custody (COC)?	No

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Field ID: FB-106-0058-TP01
Submitted By: Shawn Lowman
Date Collected: 07/29/2024

Field ID: FB-106-0058-TP01
County: Carroll

Collected By: Shawn Lowman
County Code: 06

Plant: 0058
Sample Station: TP01
Site Name: Runnymede Elementary School
Sample Source: PFAS Free Water
Location: 3000 Langdon Drive
Long/Lat:

Submitter Code: Water Quality Monitoring Program (52)
Reason For Testing: Routine
Data Category Code: 4A
Regulation Supported: SDWA
Federal Project: Safe Drinking Water Act (SDWA) (S)

Sample Preserved By: Ammonium Acetate
Sample pH: NA
Free Chlorine: NA
Total Chlorine: NA
Comment: Field Blank

Sample Type: Drinking Water
System Type: Non-Community
Source Descriptor: Water Treatment Plant POE
Collector Phone: (410) 294-7884
Collection Date/Time: 07/29/2024 09:20

Analysis Requested
DW PFAS - 533

Information in this section was not generated by the laboratory

Approved by: Sadia Munir

Approval date: 08/27/2024

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PF2500004907

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Maryland
Department of
the Environment

Wes Moore, Governor
Aruna Miller, Lt. Governor

Serena McIlwain, Secretary
Suzanne E. Dorsey, Deputy Secretary

August 29, 2024

John Timcheck
Carroll County Public Schools
125 N. Court St.
Westminster, MD 21157

**Re: Follow-Up: Per- and Polyfluoroalkyl Substances (PFAS) Phase 5 Sampling
Sandymount Elementary, 106-0037**

Dear John Timcheck:

Enclosed in this letter are the PFAS results for the samples collected from your system on July 31, 2024. The Maryland Department of Health Laboratories Administration tested the sample for 25 PFAS under U.S. Environmental Protection Agency (EPA) Method 533.

The EPA recently announced finalized regulatory standards for six of the most prevalent PFAS compounds: PFOA, PFOS, PFBS, PFHxS, PFNA, and HFPO-DA (GenX). Under EPA's new regulations, non-transient non-community water systems will be regulated and required to monitor for PFAS on a routine basis. All public water systems under these regulations will be required to begin monitoring for PFAS by 2027 with requirements to be in compliance by 2029.

These PFAS compounds were detected in your water sample at the concentrations listed below. All results are below EPA's regulatory standards. Under each PFAS compound are the individual Maximum Contaminant Levels (MCL) or Health Based Water Concentrations (HBWC) in which the EPA regulations are based. For a full breakdown of all 25 PFAS analyte concentrations, refer to the results on the following page.

Sample	PFOA	PFOS	PFBS	PFHxS	PFNA	HFPO-DA (GenX)	Hazard Index ^a
	<i>MCL - 4.0 ppt</i>	<i>MCL - 4.0 ppt</i>	<i>HBWC - 2000 ppt</i>	<i>MCL - 10 ppt</i>	<i>MCL - 10 ppt</i>	<i>MCL - 10 ppt</i>	<i>HI - 1.0</i>
CL881543	3.72	2.36	3.81	<RL	<RL	<RL	0
CL0037W3	3.61	2.75	3.28	<RL	<RL	<RL	0

Results in red show concentrations that exceed EPA's regulations. <RL = Reporting Limit

^a The Hazard Index (HI) considers the combined concentrations of PFBS, PFHxS, PFNA, and HFPO-DA, in drinking water. HI greater than 1.0, is a violation of the EPA MCL.

No further action is recommended at this time. As mentioned above, your water system will be required to begin monitoring for PFAS by 2027. MDE will be reaching out with further guidance

regarding this.

For more information about PFAS monitoring and reporting requirements, please refer to the EPA fact sheet linked below:

[EPA: PFAS Monitoring and Reporting Fact Sheet](#)

If you have any questions, contact me at 410-537-3065 or Diana.Kremer@maryland.gov.

Sincerely,

Diana Kremer

Diana Kremer
Water Supply Program



State of Maryland
Department of Health
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FINAL REPORT

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Field ID: CL881543
Submitted By: Shawn Lowman
Date Collected: 07/31/2024

Information in this section was not generated by the laboratory

Lab No: PF2500005002
Date Received: 07/31/2024

Date Analyzed: 08/15/2024

<u>Analyte</u>	<u>Method</u>	<u>RL</u>	<u>Result</u> [†]	<u>Uncertainty</u>	<u>Units</u>
PFBA	EPA 533	1.0	5.69	± 18.6%	ppt
PFPeA	EPA 533	1.0	11.7	± 18.4%	ppt
PFHxA	EPA 533	1.0	8.88	± 17.2%	ppt
PFHpA	EPA 533	1.0	2.07	± 26.6%	ppt
PFOA	EPA 533	1.0	3.72	± 23.4%	ppt
PFNA	EPA 533	1.0	ND	± 24.4%	ppt
PFDA	EPA 533	1.5	ND	± 18.7%	ppt
PFUnDA	EPA 533	1.0	ND	± 25.9%	ppt
PFDOA	EPA 533	1.0	ND	± 15.8%	ppt
PFBS	EPA 533	1.0	3.81	± 19.6%	ppt
PFPeS	EPA 533	1.0	0.775 [†]	± 25.9%	ppt
PFHxS	EPA 533	1.5	1.10 [†]	± 19.5%	ppt
PFHpS	EPA 533	1.0	ND	± 26.1%	ppt
PFOS	EPA 533	1.0	2.36	± 19.0%	ppt
4-2 FTS	EPA 533	1.0	ND	± 18.2%	ppt
6-2 FTS	EPA 533	1.5	ND	± 17.5%	ppt
8-2 FTS	EPA 533	1.0	ND	± 17.7%	ppt
HFPO-DA	EPA 533	1.0	ND	± 21.2%	ppt
ADONA	EPA 533	1.0	ND	± 22.8%	ppt
9CI-PF3ONS	EPA 533	1.0	ND	± 17.3%	ppt

Approved by:

Sadia Munazza

Approval date: 08/27/2024

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PF2500005002

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FINAL REPORT

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Field ID: CL881543

Submitted By: Shawn Lowman

Date Collected: 07/31/2024

Information in this section was not generated by the laboratory

Lab No: PF2500005002

Date Received: 07/31/2024

Date Analyzed: 08/15/2024

<u>Analyte</u>	<u>Method</u>	<u>RL</u>	<u>Result</u> [†]	<u>Uncertainty</u>	<u>Units</u>
11CI-PF3OUdS	EPA 533	1.0	ND	± 23.9%	ppt
PFEESA	EPA 533	1.0	ND	± 17.4%	ppt
PFMPA	EPA 533	1.0	ND	± 22.2%	ppt
PFMBA	EPA 533	1.0	ND	± 23.7%	ppt
NFDHA	EPA 533	2.5	ND	± 28.2%	ppt

Approved by: Shawn Lowman

Approval date: 08/27/2024

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FINAL REPORT

Folder No:	PF25000050	Date/Time Logged:	07/31/2024 13:32
Sample ID:	PF2500005002	Temperature Control:	Refrigerated
Date Received in Lab:	07/31/2024	Sample Condition:	Acceptable
Sample Received By:	Xintao Wang	Received Under Chain of Custody (COC)?	No

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Field ID: CL881543
Submitted By: Shawn Lowman
Date Collected: 07/31/2024

Field ID: CL881543
County: Carroll

Collected By: Shawn Lowman
County Code: 06

Plant: 0037
Sample Station: Well 1
Site Name: Sandymount Elementary School We
Sample Source: Raw Tap Well 1
Location: 2222 old Westminster Pike
Long/Lat:

Submitter Code: Water Quality Monitoring Program (52)
Reason For Testing: Routine
Data Category Code: 4A
Regulation Supported: SDWA
Federal Project: Safe Drinking Water Act (SDWA) (S)

Sample Preserved By: Ammonium Acetate
Sample pH: 5.4
Free Chlorine: 0.0
Total Chlorine: 0.0
Comment:

Sample Type: Drinking Water
System Type: Non-Community
Source Descriptor: Source (Raw Water)
Collector Phone: (410) 294-7884
Collection Date/Time: 07/31/2024 09:55

Analysis Requested
DW PFAS - 533

Information in this section was not generated by the laboratory

Approved by: Sadia Muneeb

Approval date: 08/27/2024

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FINAL REPORT

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Field ID: CL0037W3
Submitted By: Shawn Lowman
Date Collected: 07/31/2024

Information in this section was not generated by the laboratory

Lab No: PF2500005004
Date Received: 07/31/2024

Date Analyzed: 08/22/2024

<u>Analyte</u>	<u>Method</u>	<u>RL</u>	<u>Result</u> [†]	<u>Uncertainty</u>	<u>Units</u>
PFBA	EPA 533	1.0	4.15	± 18.6%	ppt
PFPeA	EPA 533	1.0	9.61	± 18.4%	ppt
PFHxA	EPA 533	1.0	6.55	± 17.2%	ppt
PFHpA	EPA 533	1.0	1.76	± 26.6%	ppt
PFOA	EPA 533	1.0	3.61	± 23.4%	ppt
PFNA	EPA 533	1.0	ND	± 24.4%	ppt
PFDA	EPA 533	1.5	ND	± 18.7%	ppt
PFUnDA	EPA 533	1.0	ND	± 25.9%	ppt
PFDOA	EPA 533	1.0	ND	± 15.8%	ppt
PFBS	EPA 533	1.0	3.28	± 19.6%	ppt
PFPeS	EPA 533	1.0	0.596 [†]	± 25.9%	ppt
PFHxS	EPA 533	1.5	0.973 [†]	± 19.5%	ppt
PFHpS	EPA 533	1.0	ND	± 26.1%	ppt
PFOS	EPA 533	1.0	2.75	± 19.0%	ppt
4-2 FTS	EPA 533	1.0	ND	± 18.2%	ppt
6-2 FTS	EPA 533	1.5	ND	± 17.5%	ppt
8-2 FTS	EPA 533	1.0	ND	± 17.7%	ppt
HFPO-DA	EPA 533	1.0	ND	± 21.2%	ppt
ADONA	EPA 533	1.0	ND	± 22.8%	ppt
9CI-PF3ONS	EPA 533	1.0	ND	± 17.3%	ppt

Approved by:

Sadia Munir

Approval date: 08/27/2024

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PF2500005004

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FINAL REPORT

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Field ID: CL0037W3
Submitted By: Shawn Lowman
Date Collected: 07/31/2024

Information in this section was not generated by the laboratory

Lab No: PF2500005004
Date Received: 07/31/2024

Date Analyzed: 08/22/2024

<u>Analyte</u>	<u>Method</u>	<u>RL</u>	<u>Result</u> [†]	<u>Uncertainty</u>	<u>Units</u>
11CI-PF3OUdS	EPA 533	1.0	ND	± 23.9%	ppt
PFEESA	EPA 533	1.0	ND	± 17.4%	ppt
PFMPA	EPA 533	1.0	ND	± 22.2%	ppt
PFMBA	EPA 533	1.0	ND	± 23.7%	ppt
NFDHA	EPA 533	2.5	ND	± 28.2%	ppt

Approved by: Sadia Nunez

Approval date: 08/27/2024

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FINAL REPORT

Folder No:	PF25000050	Date/Time Logged:	07/31/2024 13:32
Sample ID:	PF2500005004	Temperature Control:	Refrigerated
Date Received in Lab:	07/31/2024	Sample Condition:	Acceptable
Sample Received By:	Xintao Wang	Received Under Chain of Custody (COC)?	No

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Field ID: CL0037W3
Submitted By: Shawn Lowman
Date Collected: 07/31/2024

Field ID: CL0037W3
County: Carroll

Collected By: Shawn Lowman
County Code: 06

Plant: 0037
Sample Station: Well 3
Site Name: Sandymount Elementary School We
Sample Source: Raw Tap Well 3
Location: 2222 old Westminster Pike
Long/Lat:

Submitter Code: Water Quality Monitoring Program (52)
Reason For Testing: Routine
Data Category Code: 4A
Regulation Supported: SDWA
Federal Project: Safe Drinking Water Act (SDWA) (S)

Sample Preserved By: Ammonium Acetate
Sample pH: 5.6
Free Chlorine: 0.0
Total Chlorine: 0.0
Comment:

Sample Type: Drinking Water
System Type: Non-Community
Source Descriptor: Source (Raw Water)
Collector Phone: (410) 294-7884
Collection Date/Time: 07/31/2024 10:00

Analysis Requested
DW PFAS - 533

Information in this section was not generated by the laboratory

Approved by: Sadia Khuram

Approval date: 08/27/2024

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FINAL REPORT

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Field ID: FB-CL881543
Submitted By: Shawn Lowman
Date Collected: 07/31/2024

Information in this section was not generated by the laboratory

Lab No: PF2500005001
Date Received: 07/31/2024

Date Analyzed: 08/15/2024

<u>Analyte</u>	<u>Method</u>	<u>RL</u>	<u>Result</u> [†]	<u>Uncertainty</u>	<u>Units</u>
PFBA	EPA 533	1.0	ND	± 18.6%	ppt
PFPeA	EPA 533	1.0	ND	± 18.4%	ppt
PFHxA	EPA 533	1.0	ND	± 17.2%	ppt
PFHpA	EPA 533	1.0	ND	± 26.6%	ppt
PFOA	EPA 533	1.0	ND	± 23.4%	ppt
PFNA	EPA 533	1.0	ND	± 24.4%	ppt
PFDA	EPA 533	1.5	ND	± 18.7%	ppt
PFUnDA	EPA 533	1.0	ND	± 25.9%	ppt
PFDOA	EPA 533	1.0	ND	± 15.8%	ppt
PFBS	EPA 533	1.0	ND	± 19.6%	ppt
PFPeS	EPA 533	1.0	ND	± 25.9%	ppt
PFHxS	EPA 533	1.5	ND	± 19.5%	ppt
PFHpS	EPA 533	1.0	ND	± 26.1%	ppt
PFOS	EPA 533	1.0	ND	± 19.0%	ppt
4-2 FTS	EPA 533	1.0	ND	± 18.2%	ppt
6-2 FTS	EPA 533	1.5	ND	± 17.5%	ppt
8-2 FTS	EPA 533	1.0	ND	± 17.7%	ppt
HFPO-DA	EPA 533	1.0	ND	± 21.2%	ppt
ADONA	EPA 533	1.0	ND	± 22.8%	ppt
9CI-PF3ONS	EPA 533	1.0	ND	± 17.3%	ppt

Approved by:

Sadia Muneeb

Approval date: 08/27/2024

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PF2500005001

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FINAL REPORT

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Field ID: FB-CL881543
Submitted By: Shawn Lowman
Date Collected: 07/31/2024

Information in this section was not generated by the laboratory

Lab No: PF2500005001
Date Received: 07/31/2024

Date Analyzed: 08/15/2024

<u>Analyte</u>	<u>Method</u>	<u>RL</u>	<u>Result</u> [†]	<u>Uncertainty</u>	<u>Units</u>
11CI-PF3OUdS	EPA 533	1.0	ND	± 23.9%	ppt
PFEESA	EPA 533	1.0	ND	± 17.4%	ppt
PFMPA	EPA 533	1.0	ND	± 22.2%	ppt
PFMBA	EPA 533	1.0	ND	± 23.7%	ppt
NFDHA	EPA 533	2.5	ND	± 28.2%	ppt

Approved by: Sadira Munera

Approval date: 08/27/2024

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FINAL REPORT

Folder No:	PF25000050	Date/Time Logged:	07/31/2024 13:32
Sample ID:	PF2500005001	Temperature Control:	Refrigerated
Date Received in Lab:	07/31/2024	Sample Condition:	Acceptable
Sample Received By:	Xintao Wang	Received Under Chain of Custody (COC)?	No

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Field ID: FB-CL881543
Submitted By: Shawn Lowman
Date Collected: 07/31/2024

Field ID: FB-CL881543
County: Carroll

Collected By: Shawn Lowman
County Code: 06

Plant: 0037
Sample Station: Well 1
Site Name: Sandymount Elementary School We
Sample Source: PFAS Free Water
Location: 2222 old Westminster Pike
Long/Lat:

Submitter Code: Water Quality Monitoring Program (52)
Reason For Testing: Routine
Data Category Code: 4A
Regulation Supported: SDWA
Federal Project: Safe Drinking Water Act (SDWA) (S)

Sample Preserved By: Ammonium Acetate
Sample pH: NA
Free Chlorine: NA
Total Chlorine: NA
Comment: Field Blank

Sample Type: Drinking Water
System Type: Non-Community
Source Descriptor:
Collector Phone: (410) 294-7884
Collection Date/Time: 07/31/2024 09:55

Analysis Requested
DW PFAS - 533

Information in this section was not generated by the laboratory

Approved by: Sadia Muneeb

Approval date: 08/27/2024

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MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Field ID: FB-CL0037W3
Submitted By: Shawn Lowman
Date Collected: 07/31/2024

Information in this section was not generated by the laboratory

Lab No: PF2500005003
Date Received: 07/31/2024

Date Analyzed: 08/14/2024

<u>Analyte</u>	<u>Method</u>	<u>RL</u>	<u>Result</u> [†]	<u>Uncertainty</u>	<u>Units</u>
PFBA	EPA 533	1.0	ND	± 18.6%	ppt
PFPeA	EPA 533	1.0	ND	± 18.4%	ppt
PFHxA	EPA 533	1.0	ND	± 17.2%	ppt
PFHpA	EPA 533	1.0	ND	± 26.6%	ppt
PFOA	EPA 533	1.0	ND	± 23.4%	ppt
PFNA	EPA 533	1.0	ND	± 24.4%	ppt
PFDA	EPA 533	1.5	ND	± 18.7%	ppt
PFUnDA	EPA 533	1.0	ND	± 25.9%	ppt
PFDOA	EPA 533	1.0	ND	± 15.8%	ppt
PFBS	EPA 533	1.0	ND	± 19.6%	ppt
PFPeS	EPA 533	1.0	ND	± 25.9%	ppt
PFHxS	EPA 533	1.5	ND	± 19.5%	ppt
PFHpS	EPA 533	1.0	ND	± 26.1%	ppt
PFOS	EPA 533	1.0	ND	± 19.0%	ppt
4-2 FTS	EPA 533	1.0	ND	± 18.2%	ppt
6-2 FTS	EPA 533	1.5	ND	± 17.5%	ppt
8-2 FTS	EPA 533	1.0	ND	± 17.7%	ppt
HFPO-DA	EPA 533	1.0	ND	± 21.2%	ppt
ADONA	EPA 533	1.0	ND	± 22.8%	ppt
9CI-PF3ONS	EPA 533	1.0	ND	± 17.3%	ppt

Approved by:

Sadia Nunez

Approval date: 08/27/2024

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MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Field ID: FB-CL0037W3
Submitted By: Shawn Lowman
Date Collected: 07/31/2024

Information in this section was not generated by the laboratory

Lab No: PF2500005003
Date Recieved: 07/31/2024

Date Analyzed: 08/14/2024

<u>Analyte</u>	<u>Method</u>	<u>RL</u>	<u>Result</u> [†]	<u>Uncertainty</u>	<u>Units</u>
11CI-PF3OUdS	EPA 533	1.0	ND	± 23.9%	ppt
PFEESA	EPA 533	1.0	ND	± 17.4%	ppt
PFMPA	EPA 533	1.0	ND	± 22.2%	ppt
PFMBA	EPA 533	1.0	ND	± 23.7%	ppt
NFDHA	EPA 533	2.5	ND	± 28.2%	ppt

Approved by: Sadia Munir

Approval date: 08/27/2024

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FINAL REPORT

Folder No:	PF25000050	Date/Time Logged:	07/31/2024 13:32
Sample ID:	PF2500005003	Temperature Control:	Refrigerated
Date Received in Lab:	07/31/2024	Sample Condition:	Acceptable
Sample Received By:	Xintao Wang	Received Under Chain of Custody (COC)?	No

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Field ID: FB-CL0037W3
Submitted By: Shawn Lowman
Date Collected: 07/31/2024

Field ID: FB-CL0037W3
County: Carroll

Collected By: Shawn Lowman
County Code: 06

Plant: 0037
Sample Station: Well 3
Site Name: Sandymount Elementary School We
Sample Source: PFAS Free Water
Location: 2222 old Westminster Pike
Long/Lat:

Submitter Code: Water Quality Monitoring Program (52)
Reason For Testing: Routine
Data Category Code: 4A
Regulation Supported: SDWA
Federal Project: Safe Drinking Water Act (SDWA) (S)

Sample Preserved By: Ammonium Acetate
Sample pH: NA
Free Chlorine: NA
Total Chlorine: NA
Comment: Field Blank

Sample Type: Drinking Water
System Type: Non-Community
Source Descriptor:
Collector Phone: (410) 294-7884
Collection Date/Time: 07/31/2024 10:00

Analysis Requested
DW PFAS - 533

Information in this section was not generated by the laboratory

Approved by: Sadia Munera

Approval date: 08/27/2024

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PF2500005003

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Maryland
Department of
the Environment

Wes Moore, Governor
Aruna Miller, Lt. Governor

Serena McIlwain, Secretary
Suzanne E. Dorsey, Deputy Secretary

August 29, 2024

John Timcheck
Carroll County Public Schools
125 N. Court St.
Westminster, MD 21157

**Re: Follow-Up: Per- and Polyfluoroalkyl Substances (PFAS) Phase 5 Sampling
South Carroll High School, 106-0040**

Dear John Timcheck:

Enclosed in this letter are the PFAS results for the samples collected from your system on July 29, 2024. The Maryland Department of Health Laboratories Administration tested the sample for 25 PFAS under U.S. Environmental Protection Agency (EPA) Method 533.

The EPA recently announced finalized regulatory standards for six of the most prevalent PFAS compounds: PFOA, PFOS, PFBS, PFHxS, PFNA, and HFPO-DA (GenX). Under EPA's new regulations, non-transient non-community water systems will be regulated and required to monitor for PFAS on a routine basis. All public water systems under these regulations will be required to begin monitoring for PFAS by 2027 with requirements to be in compliance by 2029.

These PFAS compounds were detected in your water sample at the concentrations listed below. Under each PFAS compound are the individual Maximum Contaminant Levels (MCL) or Health Based Water Concentrations (HBWC) in which the EPA regulations are based.

Sample	PFOA	PFOS	PFBS	PFHxS	PFNA	HFPO-DA (GenX)	Hazard Index ^a
	<i>MCL - 4.0 ppt</i>	<i>MCL - 4.0 ppt</i>	<i>HBWC - 2000 ppt</i>	<i>MCL - 10 ppt</i>	<i>MCL - 10 ppt</i>	<i>MCL - 10 ppt</i>	<i>HI - 1.0</i>
TP01	15.6	12.7	8.2	8.18	<RL	<RL	0.82

Results in red show concentrations that exceed EPA's regulations. <RL = Reporting Limit

^a The Hazard Index (HI) considers the combined concentrations of PFBS, PFHxS, PFNA, and HFPO-DA, in drinking water. HI greater than 1.0, is a violation of the EPA MCL.

For a full breakdown of all 25 PFAS analyte concentrations, refer to the results attached.

At these elevated levels, we recommend you take the following actions:

- **Discontinue use of your system's water.** Use of bottled water for consumption is recommended until a long-term solution is put in place.
- **Issue a tier II public notice notifying your consumers within 30 days.** To assist you with the public notice, we have drafted the attached notice for your review. This is the same notice that was provided prior to sampling.
- **Develop a plan to reduce PFAS in your drinking water.** Short-term solutions may include setting up a contract to purchase bottled water or hauled water, on an emergency basis. Longer term reduction strategies may include acquiring alternative sources of drinking water (i.e., drilling a new well, connecting with a larger nearby water system, etc.), or installing treatment to remove PFAS (i.e., granular activated carbon, ion exchange resins, high pressure membrane systems). Plans should be implemented as soon as practical.

Prior to modifying or installing new treatment, a water and sewerage construction permit will need to be obtained.

For public schools and non-profit water systems, funding is available for projects addressing PFAS through the Infrastructure Investment and Jobs Act (Bipartisan Infrastructure Law). The funding solicitation period generally runs from December to January. For information about funding and for technical assistance, reach out to your MDE county engineer, Bobin Shrestha at bobin.shrestha@maryland.gov.

For more information about PFAS monitoring and reporting requirements, please refer to the EPA fact sheet linked below:

[EPA: PFAS Monitoring and Reporting Fact Sheet](#)

If you have any other questions, contact me at 410-537-3065 or Diana.Kremer@maryland.gov.

Sincerely,

Diana Kremer

Diana Kremer
Water Supply Program



State of Maryland
Department of Health
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FINAL REPORT

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Field ID: 106-0040-TP01
Submitted By: Shawn Lowman
Date Collected: 07/29/2024

Information in this section was not generated by the laboratory

Lab No: PF2500004902
Date Received: 07/29/2024

Date Analyzed: 08/14/2024

<u>Analyte</u>	<u>Method</u>	<u>RL</u>	<u>Result</u> [†]	<u>Uncertainty</u>	<u>Units</u>
PFBA	EPA 533	1.0	5.12	± 18.6%	ppt
PFPeA	EPA 533	1.0	6.23	± 18.4%	ppt
PFHxA	EPA 533	1.0	7.88	± 17.2%	ppt
PFHpA	EPA 533	1.0	5.17	± 26.6%	ppt
PFOA	EPA 533	1.0	15.6	± 23.4%	ppt
PFNA	EPA 533	1.0	0.676 [†]	± 24.4%	ppt
PFDA	EPA 533	1.5	ND	± 18.7%	ppt
PFUnDA	EPA 533	1.0	ND	± 25.9%	ppt
PFDOA	EPA 533	1.0	ND	± 15.8%	ppt
PFBS	EPA 533	1.0	8.20	± 19.6%	ppt
PFPeS	EPA 533	1.0	1.59	± 25.9%	ppt
PFHxS	EPA 533	1.5	8.18	± 19.5%	ppt
PFHpS	EPA 533	1.0	0.519 [†]	± 26.1%	ppt
PFOS	EPA 533	1.0	12.7	± 19.0%	ppt
4-2 FTS	EPA 533	1.0	ND	± 18.2%	ppt
6-2 FTS	EPA 533	1.5	ND	± 17.5%	ppt
8-2 FTS	EPA 533	1.0	ND	± 17.7%	ppt
HFPO-DA	EPA 533	1.0	ND	± 21.2%	ppt
ADONA	EPA 533	1.0	ND	± 22.8%	ppt
9CI-PF3ONS	EPA 533	1.0	ND	± 17.3%	ppt

Approved by:

Sadia Muneeb

Approval date: 08/27/2024

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PF2500004902

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MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Field ID: 106-0040-TP01
Submitted By: Shawn Lowman
Date Collected: 07/29/2024

Information in this section was not generated by the laboratory

Lab No: PF2500004902

Date Received: 07/29/2024

Date Analyzed: 08/14/2024

<u>Analyte</u>	<u>Method</u>	<u>RL</u>	<u>Result</u> [†]	<u>Uncertainty</u>	<u>Units</u>
11CI-PF3OUdS	EPA 533	1.0	ND	± 23.9%	ppt
PFEESA	EPA 533	1.0	ND	± 17.4%	ppt
PFMPA	EPA 533	1.0	ND	± 22.2%	ppt
PFMBA	EPA 533	1.0	ND	± 23.7%	ppt
NFDHA	EPA 533	2.5	ND	± 28.2%	ppt

Approved by: Sadia Munir

Approval date: 08/27/2024

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FINAL REPORT

Folder No:	PF25000049	Date/Time Logged:	08/06/2024 10:00
Sample ID:	PF2500004902	Temperature Control:	Refrigerated
Date Received in Lab:	07/29/2024	Sample Condition:	Acceptable
Sample Received By:		Received Under Chain of Custody (COC)?	No

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Field ID: 106-0040-TP01
Submitted By: Shawn Lowman
Date Collected: 07/29/2024

Field ID: 106-0040-TP01
County: Carroll
Plant: 0040
Sample Station: TP01
Site Name: South Carroll High School
Sample Source: Plant Sample Tap
Location: 1300 West Old Liberty Rd
Long/Lat:

Collected By: Shawn Lowman
County Code: 06
Submitter Code: Water Quality Monitoring Program (52)
Reason For Testing: Routine
Data Category Code: 4A
Regulation Supported: SDWA
Federal Project: Safe Drinking Water Act (SDWA) (S)

Sample Preserved By: Ammonium Acetate
Sample pH: 6.6
Free Chlorine: 0.0
Total Chlorine: 0.0
Comment:

Sample Type: Drinking Water
System Type: Non-Community
Source Descriptor: Water Treatment Plant POE
Collector Phone: (410) 294-7884
Collection Date/Time: 07/29/2024 07:05

Analysis Requested
DW PFAS - 533

Information in this section was not generated by the laboratory

Approved by: Sadia Munir

Approval date: 08/27/2024

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ANNAPOLIS, MD 21401

Field ID: FB-106-0040-TP01

Submitted By: Shawn Lowman

Date Collected: 07/29/2024

Information in this section was not generated by the laboratory

Lab No: PF2500004901

Date Received: 07/29/2024

Date Analyzed: 08/14/2024

<u>Analyte</u>	<u>Method</u>	<u>RL</u>	<u>Result</u> [†]	<u>Uncertainty</u>	<u>Units</u>
PFBA	EPA 533	1.0	ND	± 18.6%	ppt
PFPeA	EPA 533	1.0	ND	± 18.4%	ppt
PFHxA	EPA 533	1.0	ND	± 17.2%	ppt
PFHpA	EPA 533	1.0	ND	± 26.6%	ppt
PFOA	EPA 533	1.0	ND	± 23.4%	ppt
PFNA	EPA 533	1.0	ND	± 24.4%	ppt
PFDA	EPA 533	1.5	ND	± 18.7%	ppt
PFUnDA	EPA 533	1.0	ND	± 25.9%	ppt
PFDOA	EPA 533	1.0	ND	± 15.8%	ppt
PFBS	EPA 533	1.0	ND	± 19.6%	ppt
PFPeS	EPA 533	1.0	ND	± 25.9%	ppt
PFHxS	EPA 533	1.5	ND	± 19.5%	ppt
PFHpS	EPA 533	1.0	ND	± 26.1%	ppt
PFOS	EPA 533	1.0	ND	± 19.0%	ppt
4-2 FTS	EPA 533	1.0	ND	± 18.2%	ppt
6-2 FTS	EPA 533	1.5	ND	± 17.5%	ppt
8-2 FTS	EPA 533	1.0	ND	± 17.7%	ppt
HFPO-DA	EPA 533	1.0	ND	± 21.2%	ppt
ADONA	EPA 533	1.0	ND	± 22.8%	ppt
9CI-PF3ONS	EPA 533	1.0	ND	± 17.3%	ppt

Approved by:

Sadia Muneeb

Approval date: 08/27/2024

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FINAL REPORT

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Field ID: FB-106-0040-TP01

Submitted By: Shawn Lowman

Date Collected: 07/29/2024

Information in this section was not generated by the laboratory

Lab No: PF2500004901

Date Received: 07/29/2024

Date Analyzed: 08/14/2024

<u>Analyte</u>	<u>Method</u>	<u>RL</u>	<u>Result</u> [†]	<u>Uncertainty</u>	<u>Units</u>
11CI-PF3OUdS	EPA 533	1.0	ND	± 23.9%	ppt
PFEESA	EPA 533	1.0	ND	± 17.4%	ppt
PFMPA	EPA 533	1.0	ND	± 22.2%	ppt
PFMBA	EPA 533	1.0	ND	± 23.7%	ppt
NFDHA	EPA 533	2.5	ND	± 28.2%	ppt

Approved by:

Sadia Munir

Approval date: 08/27/2024

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Results marked with a cross (†) are above the Method Detection Limit (MDL) but below the Reporting Level (RL)

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PF2500004901

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Baltimore, MD 21205
Robert Myers, Ph.D., Director

Division of Environmental Sciences
CHEMICAL EMERGENCY PREPAREDNESS AND RESPONSE LABORATORY

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FINAL REPORT

Folder No:	PF25000049	Date/Time Logged:	08/06/2024 10:00
Sample ID:	PF2500004901	Temperature Control:	Refrigerated
Date Received in Lab:	07/29/2024	Sample Condition:	Acceptable
Sample Received By:		Received Under Chain of Custody (COC)?	No

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Field ID: FB-106-0040-TP01
Submitted By: Shawn Lowman
Date Collected: 07/29/2024

Field ID: FB-106-0040-TP01
County: Carroll
Plant: 0040
Sample Station: TP01
Site Name: South Carroll High School
Sample Source: PFAS Free Water
Location: 1300 West Old Liberty Rd
Long/Lat:

Collected By: Shawn Lowman
County Code: 06
Submitter Code: Water Quality Monitoring Program (52)
Reason For Testing: Routine
Data Category Code: 4A
Regulation Supported: SDWA
Federal Project: Safe Drinking Water Act (SDWA) (S)

Sample Preserved By: Ammonium Acetate
Sample pH: NA
Free Chlorine: NA
Total Chlorine: NA
Comment: Field Blank

Sample Type: Drinking Water
System Type: Non-Community
Source Descriptor: Water Treatment Plant POE
Collector Phone: (410) 294-7884
Collection Date/Time: 07/29/2024 07:05

Analysis Requested
DW PFAS - 533

Information in this section was not generated by the laboratory

Approved by: Sadia Muneeb

Approval date: 08/27/2024

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PF2500004901

Page 3 of 3



August 29, 2024

John Timcheck
Carroll County Public Schools
125 N. Court St.
Westminster, MD 21157

**Re: Follow-Up: Per- and Polyfluoroalkyl Substances (PFAS) Phase 5 Sampling
Winfield Elementary, 106-0050**

Dear John Timcheck:

Enclosed in this letter are the PFAS results for the samples collected from your system on July 29, 2024. The Maryland Department of Health Laboratories Administration tested the sample for 25 PFAS under U.S. Environmental Protection Agency (EPA) Method 533.

The EPA recently announced finalized regulatory standards for six of the most prevalent PFAS compounds: PFOA, PFOS, PFBS, PFHxS, PFNA, and HFPO-DA (GenX). Under EPA's new regulations, non-transient non-community water systems will be regulated and required to monitor for PFAS on a routine basis. All public water systems under these regulations will be required to begin monitoring for PFAS by 2027 with requirements to be in compliance by 2029.

These PFAS compounds were detected in your water sample at the concentrations listed below. Under each PFAS compound are the individual Maximum Contaminant Levels (MCL) or Health Based Water Concentrations (HBWC) in which the EPA regulations are based.

Sample	PFOA	PFOS	PFBS	PFHxS	PFNA	HFPO-DA (GenX)	Hazard Index ^a
	<i>MCL - 4.0 ppt</i>	<i>MCL - 4.0 ppt</i>	<i>HBWC - 2000 ppt</i>	<i>MCL - 10 ppt</i>	<i>MCL - 10 ppt</i>	<i>MCL - 10 ppt</i>	<i>HI - 1.0</i>
CL881723	11.5	5.42	3.25	<RL	1.77	<RL	0.18
CL943448	4.59	2.34	2.77	1.53	1.2	<RL	0.27

Results in red show concentrations that exceed EPA's regulations. <RL = Reporting Limit

^a The Hazard Index (HI) considers the combined concentrations of PFBS, PFHxS, PFNA, and HFPO-DA, in drinking water. HI greater than 1.0, is a violation of the EPA MCL.

For a full breakdown of all 25 PFAS analyte concentrations, refer to the results attached.

At these elevated levels, we recommend you take the following actions:

- **Discontinue use of Well CL881723.** If system can not run on one well, consider the use of bottled water for consumption until a long-term solution is put in place.
- **Issue a tier II public notice notifying your consumers within 30 days.** To assist you with the public notice, we have drafted the attached notice for your review. This is the same notice that was provided prior to sampling.
- **Develop a plan to reduce PFAS in your drinking water.** Short-term solutions may include setting up a contract to purchase bottled water or hauled water, on an emergency basis. Longer term reduction strategies may include acquiring alternative sources of drinking water (i.e., drilling a new well, connecting with a larger nearby water system, etc.), or installing treatment to remove PFAS (i.e., granular activated carbon, ion exchange resins, high pressure membrane systems). Plans should be implemented as soon as practical.
Prior to modifying or installing new treatment, a water and sewerage construction permit will need to be obtained.

For public schools and non-profit water systems, funding is available for projects addressing PFAS through the Infrastructure Investment and Jobs Act (Bipartisan Infrastructure Law). The funding solicitation period generally runs from December to January. For information about funding and for technical assistance, reach out to your MDE county engineer, Bobin Shrestha at bobin.shrestha@maryland.gov.

For more information about PFAS monitoring and reporting requirements, please refer to the EPA fact sheet linked below:

[EPA: PFAS Monitoring and Reporting Fact Sheet](#)

If you have any other questions, contact me at 410-537-3065 or Diana.Kremer@maryland.gov.

Sincerely,

Diana Kremer

Diana Kremer
Water Supply Program



State of Maryland
Department of Health
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FINAL REPORT

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Field ID: CL881723

Submitted By: Shawn Lowman

Date Collected: 07/29/2024

Information in this section was not generated by the laboratory

Lab No: PF2500004904

Date Received: 07/29/2024

Date Analyzed: 08/14/2024

<u>Analyte</u>	<u>Method</u>	<u>RL</u>	<u>Result</u> [†]	<u>Uncertainty</u>	<u>Units</u>
PFBA	EPA 533	1.0	4.58	± 18.6%	ppt
PFPeA	EPA 533	1.0	10.6	± 18.4%	ppt
PFHxA	EPA 533	1.0	10.4	± 17.2%	ppt
PFHpA	EPA 533	1.0	5.46	± 26.6%	ppt
PFOA	EPA 533	1.0	11.5	± 23.4%	ppt
PFNA	EPA 533	1.0	1.77	± 24.4%	ppt
PFDA	EPA 533	1.5	ND	± 18.7%	ppt
PFUnDA	EPA 533	1.0	ND	± 25.9%	ppt
PFDOA	EPA 533	1.0	ND	± 15.8%	ppt
PFBS	EPA 533	1.0	3.25	± 19.6%	ppt
PFPeS	EPA 533	1.0	0.523 [†]	± 25.9%	ppt
PFHxS	EPA 533	1.5	1.48 [†]	± 19.5%	ppt
PFHpS	EPA 533	1.0	ND	± 26.1%	ppt
PFOS	EPA 533	1.0	5.42	± 19.0%	ppt
4-2 FTS	EPA 533	1.0	ND	± 18.2%	ppt
6-2 FTS	EPA 533	1.5	ND	± 17.5%	ppt
8-2 FTS	EPA 533	1.0	ND	± 17.7%	ppt
HFPO-DA	EPA 533	1.0	ND	± 21.2%	ppt
ADONA	EPA 533	1.0	ND	± 22.8%	ppt
9CI-PF3ONS	EPA 533	1.0	ND	± 17.3%	ppt

Approved by: Sadia Munazza

Approval date: 08/27/2024

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PF2500004904

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FINAL REPORT

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Field ID: CL881723

Submitted By: Shawn Lowman

Date Collected: 07/29/2024

Information in this section was not generated by the laboratory

Lab No: PF2500004904

Date Recieved: 07/29/2024

Date Analyzed: 08/14/2024

<u>Analyte</u>	<u>Method</u>	<u>RL</u>	<u>Result</u> [†]	<u>Uncertainty</u>	<u>Units</u>
11CI-PF3OUdS	EPA 533	1.0	ND	± 23.9%	ppt
PFEESA	EPA 533	1.0	ND	± 17.4%	ppt
PFMPA	EPA 533	1.0	ND	± 22.2%	ppt
PFMBA	EPA 533	1.0	ND	± 23.7%	ppt
NFDHA	EPA 533	2.5	ND	± 28.2%	ppt

Approved by:

Sadia Muneeb

Approval date: 08/27/2024

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FINAL REPORT

Folder No:	PF25000049	Date/Time Logged:	08/06/2024 10:00
Sample ID:	PF2500004904	Temperature Control:	Refrigerated
Date Received in Lab:	07/29/2024	Sample Condition:	Acceptable
Sample Received By:		Received Under Chain of Custody (COC)?	No

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Field ID: CL881723
Submitted By: Shawn Lowman
Date Collected: 07/29/2024

Field ID: CL881723
County: Carroll
Plant: 0050
Sample Station: Well A
Site Name: Winfield Elementary School
Sample Source: Raw Tap Well A
Location: 4401 Salem Bottom Road
Long/Lat:

Collected By: Shawn Lowman
County Code: 06
Submitter Code: Water Quality Monitoring Program (52)
Reason For Testing: Routine
Data Category Code: 4A
Regulation Supported: SDWA
Federal Project: Safe Drinking Water Act (SDWA) (S)

Sample Preserved By: Ammonium Acetate
Sample pH: 6.9
Free Chlorine: 0.0
Total Chlorine: 0.1
Comment:

Sample Type: Drinking Water
System Type: Non-Community
Source Descriptor: Source (Raw Water)
Collector Phone: (410) 294-7884
Collection Date/Time: 07/29/2024 07:45

Analysis Requested
DW PFAS - 533

Information in this section was not generated by the laboratory

Approved by: Sadia Munera

Approval date: 08/27/2024

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PF2500004904

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FINAL REPORT

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Field ID: CL943448

Submitted By: Shawn Lowman

Date Collected: 07/29/2024

Information in this section was not generated by the laboratory

Lab No: PF2500004906

Date Received: 07/29/2024

Date Analyzed: 08/19/2024

<u>Analyte</u>	<u>Method</u>	<u>RL</u>	<u>Result</u> [†]	<u>Uncertainty</u>	<u>Units</u>
PFBA	EPA 533	1.0	2.38	± 18.6%	ppt
PFPeA	EPA 533	1.0	4.09	± 18.4%	ppt
PFHxA	EPA 533	1.0	4.31	± 17.2%	ppt
PFHpA	EPA 533	1.0	2.68	± 26.6%	ppt
PFOA	EPA 533	1.0	4.59	± 23.4%	ppt
PFNA	EPA 533	1.0	1.20	± 24.4%	ppt
PFDA	EPA 533	1.5	0.669 [†]	± 18.7%	ppt
PFUnDA	EPA 533	1.0	ND	± 25.9%	ppt
PFDOA	EPA 533	1.0	ND	± 15.8%	ppt
PFBS	EPA 533	1.0	2.77	± 19.6%	ppt
PFPeS	EPA 533	1.0	0.429 [†]	± 25.9%	ppt
PFHxS	EPA 533	1.5	1.53	± 19.5%	ppt
PFHpS	EPA 533	1.0	ND	± 26.1%	ppt
PFOS	EPA 533	1.0	2.34	± 19.0%	ppt
4-2 FTS	EPA 533	1.0	ND	± 18.2%	ppt
6-2 FTS	EPA 533	1.5	ND	± 17.5%	ppt
8-2 FTS	EPA 533	1.0	ND	± 17.7%	ppt
HFPO-DA	EPA 533	1.0	ND	± 21.2%	ppt
ADONA	EPA 533	1.0	ND	± 22.8%	ppt
9CI-PF3ONS	EPA 533	1.0	ND	± 17.3%	ppt

Approved by:

Sadia Muneer

Approval date: 08/27/2024

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PF2500004906

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FINAL REPORT

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Field ID: CL943448

Submitted By: Shawn Lowman

Date Collected: 07/29/2024

Information in this section was not generated by the laboratory

Lab No: PF2500004906

Date Received: 07/29/2024

Date Analyzed: 08/19/2024

<u>Analyte</u>	<u>Method</u>	<u>RL</u>	<u>Result</u> [†]	<u>Uncertainty</u>	<u>Units</u>
11CI-PF3OUdS	EPA 533	1.0	ND	± 23.9%	ppt
PFEESA	EPA 533	1.0	ND	± 17.4%	ppt
PFMPA	EPA 533	1.0	ND	± 22.2%	ppt
PFMBA	EPA 533	1.0	ND	± 23.7%	ppt
NFDHA	EPA 533	2.5	ND	± 28.2%	ppt

Approved by:

Sadia Muneeb

Approval date: 08/27/2024

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FINAL REPORT

Folder No:	PF25000049	Date/Time Logged:	08/06/2024 10:00
Sample ID:	PF2500004906	Temperature Control:	Refrigerated
Date Received in Lab:	07/29/2024	Sample Condition:	Acceptable
Sample Received By:		Received Under Chain of Custody (COC)?	No

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Field ID: CL943448
Submitted By: Shawn Lowman
Date Collected: 07/29/2024

Field ID: CL943448
County: Carroll
Plant: 0050
Sample Station: Well B
Site Name: Winfield Elementary School
Sample Source: Raw Tap Well B
Location: 4401 Salem Bottom Road
Long/Lat:

Collected By: Shawn Lowman
County Code: 06
Submitter Code: Water Quality Monitoring Program (52)
Reason For Testing: Routine
Data Category Code: 4A
Regulation Supported: SDWA
Federal Project: Safe Drinking Water Act (SDWA) (S)

Sample Preserved By: Ammonium Acetate
Sample pH: 5.7
Free Chlorine: 0.0
Total Chlorine: 0.0
Comment:

Sample Type: Drinking Water
System Type: Non-Community
Source Descriptor: Source (Raw Water)
Collector Phone: (410) 294-7884
Collection Date/Time: 07/29/2024 07:50

Analysis Requested
DW PFAS - 533

Information in this section was not generated by the laboratory

Approved by: Sadia Munir

Approval date: 08/27/2024

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MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Field ID: FB-CL881723
Submitted By: Shawn Lowman
Date Collected: 07/29/2024

Information in this section was not generated by the laboratory

Lab No: PF2500004903
Date Received: 07/29/2024

Date Analyzed: 08/14/2024

<u>Analyte</u>	<u>Method</u>	<u>RL</u>	<u>Result</u> [†]	<u>Uncertainty</u>	<u>Units</u>
PFBA	EPA 533	1.0	ND	± 18.6%	ppt
PFPeA	EPA 533	1.0	ND	± 18.4%	ppt
PFHxA	EPA 533	1.0	ND	± 17.2%	ppt
PFHpA	EPA 533	1.0	ND	± 26.6%	ppt
PFOA	EPA 533	1.0	ND	± 23.4%	ppt
PFNA	EPA 533	1.0	ND	± 24.4%	ppt
PFDA	EPA 533	1.5	ND	± 18.7%	ppt
PFUnDA	EPA 533	1.0	ND	± 25.9%	ppt
PFDOA	EPA 533	1.0	ND	± 15.8%	ppt
PFBS	EPA 533	1.0	ND	± 19.6%	ppt
PFPeS	EPA 533	1.0	ND	± 25.9%	ppt
PFHxS	EPA 533	1.5	ND	± 19.5%	ppt
PFHpS	EPA 533	1.0	ND	± 26.1%	ppt
PFOS	EPA 533	1.0	ND	± 19.0%	ppt
4-2 FTS	EPA 533	1.0	ND	± 18.2%	ppt
6-2 FTS	EPA 533	1.5	ND	± 17.5%	ppt
8-2 FTS	EPA 533	1.0	ND	± 17.7%	ppt
HFPO-DA	EPA 533	1.0	ND	± 21.2%	ppt
ADONA	EPA 533	1.0	ND	± 22.8%	ppt
9CI-PF3ONS	EPA 533	1.0	ND	± 17.3%	ppt

Approved by:

Sadia Alameen

Approval date: 08/27/2024

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FINAL REPORT

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Field ID: FB-CL881723
Submitted By: Shawn Lowman
Date Collected: 07/29/2024

Information in this section was not generated by the laboratory

Lab No: PF2500004903
Date Received: 07/29/2024

Date Analyzed: 08/14/2024

<u>Analyte</u>	<u>Method</u>	<u>RL</u>	<u>Result</u> [†]	<u>Uncertainty</u>	<u>Units</u>
11CI-PF3OUdS	EPA 533	1.0	ND	± 23.9%	ppt
PFEESA	EPA 533	1.0	ND	± 17.4%	ppt
PFMPA	EPA 533	1.0	ND	± 22.2%	ppt
PFMBA	EPA 533	1.0	ND	± 23.7%	ppt
NFDHA	EPA 533	2.5	ND	± 28.2%	ppt

Approved by:

Sadia Munir

Approval date: 08/27/2024

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Department of Health
LABORATORIES ADMINISTRATION
1770 Ashland Avenue
Baltimore, MD 21205
Robert Myers, Ph.D., Director

Division of Environmental Sciences
CHEMICAL EMERGENCY PREPAREDNESS AND RESPONSE LABORATORY

Certificate of Analysis

FINAL REPORT

Folder No:	PF25000049	Date/Time Logged:	08/06/2024 10:00
Sample ID:	PF2500004903	Temperature Control:	Refrigerated
Date Received in Lab:	07/29/2024	Sample Condition:	Acceptable
Sample Received By:		Received Under Chain of Custody (COC)?	No

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Field ID: FB-CL881723
Submitted By: Shawn Lowman
Date Collected: 07/29/2024

Field ID: FB-CL881723
County: Carroll
Plant: 0050
Sample Station: Well A
Site Name: Winfield Elementary School
Sample Source: PFAS Free Water
Location: 4401 Salem Bottom Road
Long/Lat:

Collected By: Shawn Lowman
County Code: 06
Submitter Code: Water Quality Monitoring Program (52)
Reason For Testing: Routine
Data Category Code: 4A
Regulation Supported: SDWA
Federal Project: Safe Drinking Water Act (SDWA) (S)

Sample Preserved By: Ammonium Acetate
Sample pH: NA
Free Chlorine: NA
Total Chlorine: NA
Comment: Field Blank

Sample Type: Drinking Water
System Type: Non-Community
Source Descriptor: Source (Raw Water)
Collector Phone: (410) 294-7884
Collection Date/Time: 07/29/2024 07:45

Analysis Requested
DW PFAS - 533

Information in this section was not generated by the laboratory

Approved by: Sadia Muneeb

Approval date: 08/27/2024

Samples are tested as received. Results relate only to the items tested.

ND= Below the Method Detection Limit (MDL) or 1/3 Reporting Level (RL)

Methods marked with an asterisk (*) are included in our A2LA scope of accreditation.

Results marked with a cross (†) are above the Method Detection Limit (MDL) but below the Reporting Level (RL)

This document may contain information that is privileged, confidential and exempt from disclosure under law. If you have received this information in error, please call (443) 681-3851 and arrange for return or destruction.

Contact information for Questions: Telephone: (443) 681-3857 Fax: (443) 681-4507

PF2500004903

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FINAL REPORT

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Field ID: FB-CL943448

Submitted By: Shawn Lowman

Date Collected: 07/29/2024

Information in this section was not generated by the laboratory

Lab No: PF2500004905

Date Received: 07/29/2024

Date Analyzed: 08/15/2024

<u>Analyte</u>	<u>Method</u>	<u>RL</u>	<u>Result</u> [†]	<u>Uncertainty</u>	<u>Units</u>
PFBA	EPA 533	1.0	ND	± 18.6%	ppt
PFPeA	EPA 533	1.0	ND	± 18.4%	ppt
PFHxA	EPA 533	1.0	ND	± 17.2%	ppt
PFHpA	EPA 533	1.0	ND	± 26.6%	ppt
PFOA	EPA 533	1.0	ND	± 23.4%	ppt
PFNA	EPA 533	1.0	ND	± 24.4%	ppt
PFDA	EPA 533	1.5	ND	± 18.7%	ppt
PFUnDA	EPA 533	1.0	ND	± 25.9%	ppt
PFDOA	EPA 533	1.0	ND	± 15.8%	ppt
PFBS	EPA 533	1.0	ND	± 19.6%	ppt
PFPeS	EPA 533	1.0	ND	± 25.9%	ppt
PFHxS	EPA 533	1.5	ND	± 19.5%	ppt
PFHpS	EPA 533	1.0	ND	± 26.1%	ppt
PFOS	EPA 533	1.0	ND	± 19.0%	ppt
4-2 FTS	EPA 533	1.0	ND	± 18.2%	ppt
6-2 FTS	EPA 533	1.5	ND	± 17.5%	ppt
8-2 FTS	EPA 533	1.0	ND	± 17.7%	ppt
HFPO-DA	EPA 533	1.0	ND	± 21.2%	ppt
ADONA	EPA 533	1.0	ND	± 22.8%	ppt
9CI-PF3ONS	EPA 533	1.0	ND	± 17.3%	ppt

Approved by:

Sadia Muneer

Approval date: 08/27/2024

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MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Field ID: FB-CL943448
Submitted By: Shawn Lowman
Date Collected: 07/29/2024

Information in this section was not generated by the laboratory

Lab No: PF2500004905
Date Received: 07/29/2024

Date Analyzed: 08/15/2024

<u>Analyte</u>	<u>Method</u>	<u>RL</u>	<u>Result</u> [†]	<u>Uncertainty</u>	<u>Units</u>
11CI-PF3OUdS	EPA 533	1.0	ND	± 23.9%	ppt
PFEESA	EPA 533	1.0	ND	± 17.4%	ppt
PFMPA	EPA 533	1.0	ND	± 22.2%	ppt
PFMBA	EPA 533	1.0	ND	± 23.7%	ppt
NFDHA	EPA 533	2.5	ND	± 28.2%	ppt

Approved by:

Sadia Munera

Approval date: 08/27/2024

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Sample Received By:		Received Under Chain of Custody (COC)?	No

MDE WATER QUAL MONITORING PROG
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

Field ID: FB-CL943448
Submitted By: Shawn Lowman
Date Collected: 07/29/2024

Field ID: FB-CL943448
County: Carroll

Collected By: Shawn Lowman
County Code: 06

Plant: 0050
Sample Station: Well B
Site Name: Winfield Elementary School
Sample Source: PFAS Free Water
Location: 4401 Salem Bottom Road
Long/Lat:

Submitter Code: Water Quality Monitoring Program (52)
Reason For Testing: Routine
Data Category Code: 4A
Regulation Supported: SDWA
Federal Project: Safe Drinking Water Act (SDWA) (S)

Sample Preserved By: Ammonium Acetate
Sample pH: NA
Free Chlorine: NA
Total Chlorine: NA
Comment: Field Blank

Sample Type: Drinking Water
System Type: Non-Community
Source Descriptor: Source (Raw Water)
Collector Phone: (410) 294-7884
Collection Date/Time: 07/29/2024 07:50

Analysis Requested
DW PFAS - 533

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Approved by:

Sadia Munera

Approval date: 08/27/2024

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