

Maura J. Rossman, M.D., Health Officer

June 24, 2026

• Emailed: haileytbanda@gmail.com

Zach Mitkoff
11753 Farside Rd.
Ellicott City, Maryland 21042

RE: 11753 Farside Rd.
Ellicott City, Maryland 21042)
(Radium Gross Alpha/Beta Results)

Dear Zach Mitkoff;

A water sample was collected on June 02, 2026 and submitted to the Maryland Department of Health Laboratories to assess the possible presence of **Gross Alpha** and **Gross Beta** in the well water supply. **Gross Alpha** and **Gross Beta** measure the total alpha and beta particle activity in a water supply. These naturally occurring radioactive nuclides have been demonstrated to be present in a certain type of geologic formation known as the Baltimore Gneiss which exists in your area of development within the County.

Pre-treatment (before the softener device) results from this sample screening revealed a **Gross Alpha** of **< 3 picocuries/liter (pCi/L)**, while the **Gross Beta** level was **4.6 ± 2.1 pCi/L**.

Post-treatment (after the softener device) results from this sample screening revealed a **Gross Alpha** of **< 3 picocuries/liter (pCi/L)**, while the **Gross Beta** level was **39.9 ± 3.3 pCi/L**.

For the sample results, the **Gross Alpha** result was below its **maximum contaminant level (MCL)** of **15 pCi/L**, while the **Gross Beta** level was below its targeted standard of **50 pCi/L** (roughly equivalent to the **annual dose rate** of **4 millirems/year**).

At the time of testing and with respect to these parameters, your well water supply **does meet** EPA regulatory standards for **Gross Alpha and Gross Beta**. Given these screening results, additional testing to further evaluate these findings does not appear to be necessary.

In addition, as the property owner, routine servicing and proper maintenance of all water treatment devices (if applicable) in accordance with the manufacturer's specifications is always a good rule to follow. In doing so, your water system could have a better chance of remaining safe and healthy for many years.

A copy of the test results is enclosed for your information. Please call our office at **410-313-1773** if you have further questions.

Sincerely,



Ramar Martin, Program Supervisor
Bureau of Environmental Health

Enclosure
cc: Property file



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



Division of Environmental Sciences
RADIATION LABORATORY

Collection Report

Folder No:	E26002669	Date/Time Logged:	06/02/2026 15:13
Sample ID:	E2600266901	Temperature Control:	N/A
Date Received in Lab:	06/02/2026	Sample Condition:	Acceptable
Sample Received By:	SWOODSON	Received Under Chain of Custody (COC)?	No

HOWARD CO ENVIRONMENTAL HLTH
8930 STANFORD BLVD
COLUMBIA, MD 21045

Field ID: HC11753
Submitted By: Godswill Chigbu
Date Collected: 06/02/2026

Field ID: HC11753
County: Howard
Plant:

Collected By: Godswill Chigbu
County Code: 13
Submitter Code: Individual Septics & Wells Program
(Individual Septics & Wells Program)

Sample Station:
Site Name: Mitkoff- Pressure Tank
Sample Source: 11753 Farside Rd
Location: Pressure Tank

Reason For Testing: Routine
Data Category Code: 4F-Potable-Private Wells
Regulation Supported:
Federal Project: Safe Drinking Water Act (SDWA) (Safe
Drinking Water Act (SDWA))

Sample Preserved By: HNO3 1mL
Sample pH: 7.0
Free Chlorine:
Total Chlorine:

Sample Type: Drinking Water
System Type: Private
Source Descriptor: Distribution (Treated)

Water System ID:
Sample Point ID:
CROMERR Sample Type: Field Blanks
Comment:

Facility ID:
Program Other:

Collector Phone: (410) 313-6287
Collection Date/Time: 06/02/2026 10:00

Analysis Requested
Gross Alpha/Beta in Drinking Water

Information in this section was not generated by the laboratory

JUN 08 2026

Approved by:

Wanda L. Green

Approval date: 06/08/2026

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

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

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) 681-3677 Fax: (443) 681-4507

Lab No: E2600266901

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Division of Environmental Sciences
RADIATION LABORATORY
Certificate of Analysis

FINAL REPORT

HOWARD CO ENVIRONMENTAL HLTH
8930 STANFORD BLVD
COLUMBIA, MD 21045

Field ID: HC11753

Submitted By: Godswill Chigbu

Date Collected: 06/02/2026

Information in this section was not generated by the laboratory

Lab No: E2600266901

Sample Matrix: Drinking Water

Date Received: 06/02/2026

<u>Radionuclide</u>	<u>Method</u>	<u>RL</u>	<u>MCL</u>	<u>Result</u>	<u>Error (±)</u>	<u>Units</u>	<u>Date Analyzed</u>
<u>Gross Alpha/Beta in Drinking Water</u>							
Gross Alpha	EPA 900.0*	3	15	<3	-	pCi/L	06/04/2026
Gross Beta	EPA 900.0*	4	50	<4	-	pCi/L	06/04/2026

Approved by:

Wendy A. Hession

Approval date: 06/08/2026

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Baltimore, MD 21205
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Division of Environmental Sciences
RADIATION LABORATORY
Collection Report

Folder No:	E26002669	Date/Time Logged:	06/02/2026 15:13
Sample ID:	E2600266903	Temperature Control:	N/A
Date Received in Lab:	06/02/2026	Sample Condition:	Acceptable
Sample Received By:	SWOODSON	Received Under Chain of Custody (COC)?	No

HOWARD CO ENVIRONMENTAL HLTH
8930 STANFORD BLVD
COLUMBIA, MD 21045

Field ID: HC11753B
Submitted By: Godswill Chigbu
Date Collected: 06/02/2026

Field ID: HC11753B
County: Howard
Plant:

Collected By: Godswill Chigbu
County Code: 13
Submitter Code: Individual Septics & Wells Program
(Individual Septics & Wells Program)

Sample Station:
Site Name: Mitkoff- Powder Room Sink
Sample Source: 11753 Farside Rd
Location: Powder Room Sink

Reason For Testing: Routine
Data Category Code: 4F-Potable-Private Wells
Regulation Supported:
Federal Project: Safe Drinking Water Act (SDWA) (Safe
Drinking Water Act (SDWA))

Sample Preserved By: HNO3 1mL
Sample pH: 7.5
Free Chlorine:
Total Chlorine:

Sample Type: Drinking Water
System Type: Private
Source Descriptor: Distribution (Treated)

Water System ID:
Sample Point ID:
CROMERR Sample Type: Field ie Routine
Comment:

Facility ID:
Program Other:

Collector Phone: (410) 313-6287
Collection Date/Time: 06/02/2026 10:00

Analysis Requested
Gross Alpha/Beta in Drinking Water

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JUN 08 2026

Approved by:

Warrick L. Trueson

Approval date: 06/08/2026

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Lab No: E2600266903

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Division of Environmental Sciences
RADIATION LABORATORY

Collection Report

Folder No:	E26002669	Date/Time Logged:	06/02/2026 15:13
Sample ID:	E2600266902	Temperature Control:	N/A
Date Received in Lab:	06/02/2026	Sample Condition:	Acceptable
Sample Received By:	SWOODSON	Received Under Chain of Custody (COC)?	No

HOWARD CO ENVIRONMENTAL HLTH
8930 STANFORD BLVD
COLUMBIA, MD 21045

Field ID: HC11753A
Submitted By: Godswill Chigbu
Date Collected: 06/02/2026

Field ID: HC11753A
County: Howard
Plant:

Collected By: Godswill Chigbu
County Code: 13
Submitter Code: Individual Septics & Wells Program
(Individual Septics & Wells Program)

Sample Station:
Site Name: Mitkoff- Pressure Tank
Sample Source: 11753 Farside Rd
Location: Pressure Tank

Reason For Testing: Routine
Data Category Code: 4F-Potable-Private Wells
Regulation Supported:
Federal Project: Safe Drinking Water Act (SDWA) (Safe
Drinking Water Act (SDWA))

Sample Preserved By: HNO3 1mL
Sample pH: 7.5
Free Chlorine:
Total Chlorine:

Sample Type: Drinking Water
System Type: Private
Source Descriptor: Distribution (Treated)

Water System ID:
Sample Point ID:
CROMERR Sample Type: Field ie Routine
Comment:

Facility ID:
Program Other:

Collector Phone: (410) 313-6287
Collection Date/Time: 06/02/2026 10:00

Analysis Requested
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Lab No: E2600266902

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8930 STANFORD BLVD
COLUMBIA, MD 21045

Field ID: HC11753A
Submitted By: Godswill Chigbu
Date Collected: 06/02/2026

Information in this section was not generated by the laboratory

Lab No: E2600266902
Date Received: 06/02/2026

Sample Matrix: Drinking Water

<u>Radionuclide</u>	<u>Method</u>	<u>RL</u>	<u>MCL</u>	<u>Result</u>	<u>Error (±)</u>	<u>Units</u>	<u>Date Analyzed</u>
<u>Gross Alpha/Beta in Drinking Water</u>							
Gross Alpha	EPA 900.0*	3	15	<3	-	pCi/L	06/04/2026
Gross Beta	EPA 900.0*	4	50	4.6	2.1	pCi/L	06/04/2026

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