

Bureau of Environmental Health

8930 Stanford Blvd, Columbia, MD 21045
Main: 410-313-2640 | Fax: 410-313-2648
TDD 410-313-2323 | Toll Free 1-866-313-6300
www.hchealth.org

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

July 20, 2017

Homeowner
12014 Triadelphia Road
Ellicott City, MD 21042

Re: 12014 Triadelphia Road water samples

Dear Homeowner,

The Health Department received results from the testing for sodium, chloride, and total dissolved solids (TDS) from your well water.

Elevated sodium levels in drinking water could affect individuals on low-salt diets. The action level for sodium is 20 milligrams per liter (mg/L); **sodium from your well measured 31.87 mg/L**. If anyone in your household is on a low-salt diet, you may want to discuss these results with your physician.

Chloride and TDS are both considered secondary contaminants, meaning high concentrations can affect taste, color, odor, or corrosive properties of water but present no risk to health. The secondary maximum contaminant level for chloride is 250 mg/L; **chloride from your well measured 108 mg/L**. The secondary maximum contaminant level for TDS is 500 mg/L; **TDS from your well measured 346 mg/L**.

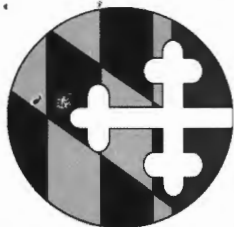
Given the elevated levels of sodium, you may want to consult a plumber and/or water treatment company to discuss options. Please be aware that any backwash generated from a treatment system must be disposed of in a subsurface disposal system. Prior to installing a system that generates backwash, please contact the Health Department to ensure that all regulatory requirements are met.

Feel free to contact me at the number or email below with any questions regarding the results of water sampling.

Sincerely,

Sarah Collins, L.E.H.S.
Howard County Health Department
Well & Septic Program
SCollins@howardcountymd.gov
410-313-6287

Cc: File



State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Chemistry
TRACE METALS LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director



Certificate of Analysis

HOWARD CO ENVIRONMENTAL HLTH
8930 STANFORD BLVD
COLUMBIA, MD 21045

Lab Project No: E18000006 Date Coll.: 06/30/2017 Date Received 07/03/2017 Submitted By: Collins

Field ID: 12014 SC
Lab No.: E18000006002

| <u>Method</u> | <u>Element</u> | <u>Result</u> | <u>Units</u> | <u>Date Analyzed</u> |
|---------------|----------------|---------------|--------------|----------------------|
| EPA 200.7 | Sodium | 31.87 | ppm | 07/05/2017 |

Comments:

Approved by:

Sadie Almesa

Approval date: 07/07/2017

**The following methods are included in our A2LA Scope of Accreditation: EPA 200.7, EPA 200.8, EPA 245.1.

This document contains confidential health information that is privileged, confidential and exempt from disclosure under law. If you have received this information in error, please call (410) 767-6944 and arrange for return or destruction.

Telephone: (443) 681 - 3853

Fax: (443) 681-4507

S:\EnviroFinal-Metals.rpt



State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
INORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director



Certificate of Analysis

HOWARD CO ENVIRONMENTAL HLTH
8930 STANFORD BLVD
COLUMBIA, MD 21045

Lab Project NoE18000007 Date Coll. 06/30/2017 Date Received 07/03/2017 Submitted By:Collins

Field ID: 12014 SC
Lab No.: E18000007002

| <u>Analyte</u> | <u>Method</u> | <u>Result</u> | <u>Units</u> | <u>Date Analyzed</u> |
|------------------------|---------------|---------------|--------------|----------------------|
| Chloride | SM 4500-Cl E | 108 | mg/L | 07/11/2017 |
| Total Dissolved Solids | SM 2540C | 346 | mg/L | 07/05/2017 |

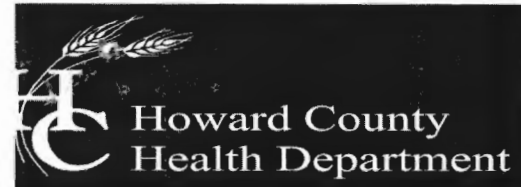
Comments:

Approved by:

Approval date: 07/12/2017

*The following methods are included in our A2LA Scope of Accreditation: EPA150.1, EPA 353.2, EPA 375.2, SM4500F C, SM 4500-CN G & QCM-CN, QCM-CN.

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Bureau of Environmental Health

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www.hchealth.org

Facebook: www.facebook.com/hocohealth

Maura Rossman, M.D., Health Officer

August 14, 2017

Mr. and Mrs. Martin Siegel
12014 Triadelphia Road
Ellicott City, Maryland 21042

RE: 12014 Triadelphia Road
Ellicott City, Maryland 21042

Dear Mr. and Mrs. Siegel:

A short-term sample was collected on June 30, 2017 and submitted to the Maryland Department of Health Laboratories to assess the possible presence of **Gross Alpha** and **Gross Beta** in the future 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.

Results from this pre-screening revealed a **Gross Alpha** of 6.3 ± 2.0 picocuries/liter (pCi/L), while the **Gross Beta** level was 8.6 ± 1.9 pCi/L. The **Gross Alpha** result was below its **maximum contaminant level (MCL)** of 15 pCi/L, while the **Gross Beta** level was below its targeted value 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 is **within** applicable EPA regulatory standards. Given these findings, treatment to reduce /remove these naturally occurring radionuclides is not necessary.

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

Sincerely,


Bert Nixon, Director
Bureau of Environmental Health

Enclosure

✓ cc: Property file

SEND REPORT TO: Bert Nixon
Howard Co Health Dept
Bureau of Environmental Health
8930 Stanford Blvd.
Columbia, MD 21045

State of Maryland
DHMH - Laboratories Administration
Division of Environmental Chemistry
RADIATION LABORATORY
1770 Ashland Avenue
Baltimore, Maryland 21205
LABORATORY ANALYSIS REQUEST FORM

03-290719
Lab No.
E002852-35
MA
LOT 451
GREEN HEDGE
E000002-35
Howard

Plant/Site Name: Siegel Property County: Howard

Sample Source: 12014 Tridelphia Rd. Ellicott City Location: Well (no tag) 12014 SC
(Well no., lab sink, sample tap, etc.)

Radon-222 Bottle A _____ Radon-222 Field Blank Bottle A _____
Bottle B _____ Bottle B _____

County 13 Plant No.

| | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|
| | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|

CHECK (one per Box)

| Type | Service | Point of Collection | Testing |
|--|---|--|---|
| Drinking Water <input checked="" type="checkbox"/> | Community <input type="checkbox"/> | Source (Raw) <input checked="" type="checkbox"/> | Emergency <input type="checkbox"/> |
| Landfill <input type="checkbox"/> | Non-Community <input type="checkbox"/> | Distribution (treated) <input type="checkbox"/> | Routine <input checked="" type="checkbox"/> |
| Stream <input type="checkbox"/> | Private <input checked="" type="checkbox"/> | MCL <input type="checkbox"/> | Recheck <input type="checkbox"/> |
| Other <input type="checkbox"/> | Other <input type="checkbox"/> | | Special <input type="checkbox"/> |

Submitters Code:

| | |
|--|--|
| | |
|--|--|

 Federal Project: S

Collector: S. Collins Telephone No.: 410-313-6287

Date Collected: 6/30/17 Time Collected: _____ a.m. 12:30 p.m.

Field pH: _____ Field Chlorine: _____

Nitric Acid Preserved: Yes ☒ No ☐ Iced: Yes ☒ No ☐

Remarks: _____

| <input checked="" type="checkbox"/> | TEST | EPA Code | Lab No. | Method No. | Results (pCi/L) | Date Analyzed | Analyst | Date Reported |
|-------------------------------------|----------------------|----------|---------|------------|-----------------|---------------|---------|---------------|
| <input checked="" type="checkbox"/> | Gross Alpha | 4000 | 002 | EPA900.0 | 6.3 ± 2.0 | 7/5/17 | JT | 7/10/17 |
| <input checked="" type="checkbox"/> | Gross Beta | 4100 | 002 | EPA900.0 | 8.6 ± 1.9 | 7/5/17 | JT | 7/10/17 |
| <input type="checkbox"/> | Radium-226 | 4020 | | | | | | |
| <input type="checkbox"/> | Radium-228 | 4030 | | | | | | |
| <input type="checkbox"/> | Total Uranium | 4006 | | | | | | |
| <input type="checkbox"/> | Radon-222 (Bottle A) | 4004 | | | | | | |
| <input type="checkbox"/> | Radon-222 (Bottle B) | 4004 | | | | | | |
| <input type="checkbox"/> | Radon Field Blank A | 4004 | | | | | | |
| <input type="checkbox"/> | Radon Field Blank B | 4004 | | | | | | |
| <input type="checkbox"/> | Tritium | | | | | | | |
| <input type="checkbox"/> | | | | | | | | |
| <input type="checkbox"/> | | | | | | | | |

Date Received: 7/3/17 Received By: [Signature]

Data Release Signature: [Signature] Date: 7/10/17

| Lab Use Only | Yes | No | N/A |
|-------------------------------|-------------------------------------|----|-----|
| Sample Intact upon arrival? | <input checked="" type="checkbox"/> | | |
| Sample pH <2.0? | <input checked="" type="checkbox"/> | | |
| Received within holding time? | <input checked="" type="checkbox"/> | | |

•Tel. No.: (443) 681-3766 •Fax No.: (443) 681-4507

SEND REPORT TO: Bert Nixon
Howard Co. Health Dept.
Bureau of Environmental Health
8930 Stamford Blvd.
Columbia, MD 21045

State of Maryland
DHMH - Laboratories Administration
Division of Environmental Chemistry
RADIATION LABORATORY
1770 Ashland Avenue
Baltimore, Maryland 21205

Lab No.

MA

E00285T-1-35
E000001

LABORATORY ANALYSIS REQUEST FORM

Plant/Site Name: Field Blank County: Howard

Sample Source: dh₂O Location: HCHD Lab

(Well no., lab sink, sample tap, etc.)

Radon-222 Bottle A _____ Radon-222 Field Blank Bottle A _____
Bottle B _____ Bottle B _____

County 13

Plant No.

| | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|
| | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|

CHECK (one per Box)

| Type | Service | Point of Collection | Testing |
|--|---|--|---|
| Drinking Water <input checked="" type="checkbox"/> | Community <input type="checkbox"/> | Source (Raw) <input checked="" type="checkbox"/> | Emergency <input type="checkbox"/> |
| Landfill <input type="checkbox"/> | Non-Community <input type="checkbox"/> | Distribution (treated) <input type="checkbox"/> | Routine <input checked="" type="checkbox"/> |
| Stream <input type="checkbox"/> | Private <input checked="" type="checkbox"/> | MCL <input type="checkbox"/> | Recheck <input type="checkbox"/> |
| Other <input type="checkbox"/> | Other <input type="checkbox"/> | | Special <input type="checkbox"/> |

Submitters Code:

| | |
|--|--|
| | |
|--|--|

 Federal Project: S

Collector: S. Collins Telephone No.: 410-313-6287

Date Collected: 6/30/17 Time Collected: _____ a.m. 3:15 p.m.

Field pH: _____ Field Chlorine: _____

Nitric Acid Preserved: Yes ☒ No ☐ Iced: Yes ☒ No ☐

Remarks: _____

| <input checked="" type="checkbox"/> | TEST | EPA Code | Lab No. | Method No. | Results (pCi/L) | Date Analyzed | Analyst | Date Reported |
|-------------------------------------|----------------------|----------|---------|------------|-----------------|---------------|---------|---------------|
| <input checked="" type="checkbox"/> | Gross Alpha | 4000 | 001 | EPA900.0 | 22.0 | 7/5/17 | IS | 7/10/17 |
| <input checked="" type="checkbox"/> | Gross Beta | 4100 | 001 | EPA900.0 | 24.0 | 7/5/17 | IS | 7/10/17 |
| <input type="checkbox"/> | Radium-226 | 4020 | | | | | | |
| <input type="checkbox"/> | Radium-228 | 4030 | | | | | | |
| <input type="checkbox"/> | Total Uranium | 4006 | | | | | | |
| <input type="checkbox"/> | Radon-222 (Bottle A) | 4004 | | | | | | |
| <input type="checkbox"/> | Radon-222 (Bottle B) | 4004 | | | | | | |
| <input type="checkbox"/> | Radon Field Blank A | 4004 | | | | | | |
| <input type="checkbox"/> | Radon Field Blank B | 4004 | | | | | | |
| <input type="checkbox"/> | Tritium | | | | | | | |
| <input type="checkbox"/> | | | | | | | | |
| <input type="checkbox"/> | | | | | | | | |

Date Received: 7/3/17 Received By: [Signature]

Data Release Signature: [Signature] Date: 7/10/17

| Lab Use Only | Yes | No | N/A |
|-------------------------------|-------------------------------------|----|-----|
| Sample Intact upon arrival? | <input checked="" type="checkbox"/> | | |
| Sample pH <2.0? | <input checked="" type="checkbox"/> | | |
| Received within holding time? | <input checked="" type="checkbox"/> | | |

Tel. No.: (443) 681-3766 • Fax No.: (443) 681-4507