

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

October 10, 2017

Mitchell & Best
1686 E. Gude Drive
Rockville, MD 20850

Re: Water sample results for 12403 All Daughters Lane

Dear Mitchell & Best,

The Health Department received results from 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 75.80 mg/L untreated and 81.60 mg/L after water softener treatment.**

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 you well measured 328 mg/L untreated and 327 mg/L after water softener treatment.** The secondary maximum contaminant level for TDS is 500 mg/L; **TDS from your well measured 1066 mg/L untreated and 1092 mg/L after water softener treatment.**

Given the elevated levels of sodium, chloride, and TDS 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.

Please 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: *Community Hygiene Program*
File

Send Report To: Bert Nixon

Howard County Health Dept
Bureau of Environmental Health
8930 Stanford Blvd
Columbia, MD 21045

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

Lab No. Date Received

E18001013001
Received: 09/08/2017
Metals 12403 SC-A
Do not write above this line

LABORATORY ANALYSIS REQUEST

Please Print

Sample ID No: 12403 SC-A Site Name: The Orchard - Lot 1 County: Howard

Sample Source: 12403 All Daughters Ln.
12345 ~~Penn Bridge Dr~~ Fulton Collector: S. Collins
Street Town or City Name

Date Collected: 9/7/2017 Time Collected: 9:45 a.m. _____ p.m. Phone #: 410-313-6287

Sample Preserved By: Field ESRL WMRL Central Lab

Preservative Used: HNO₃ _____ mL pH: 2.2

Sample Type: Drinking Water Landfill Source (Raw Water) Liquid
Data Category: Community Stream Distribution (Treated) Solid
Code: Non-Community Sediment Other _____
 Private

Specify Program: SDWA NPDES CWA RCRA Consumer Products Other _____

Type of Sample Preparation: Total Metals Total Metals TCLP Dissolved Metals
(field preparation required)

Remarks: Sample collected pre-treatment from pressure tank

✓	Element	Results (ppm)	✓	Element	Results (ppm)
	Antimony (Sb)			Copper (Cu)	
	Arsenic (As)			Lead (Pb)	
	Barium (Ba)			Silver (Ag)	
	Beryllium (Be)			Zinc (Zn)	
	Cadmium (Cd)			Aluminum (Al)	
	Chromium (Cr)			Iron (Fe)	
	Mercury (Hg)			Manganese (Mn)	
	Nickel (Ni)			Calcium (Ca)	
	Selenium (Se)			Magnesium (Mg)	
✓	Sodium (Na) <u>SHS</u>			Potassium (K)	
	Thallium (Tl)			Uranium (U)	
				Vanadium (V)	

Lab Supervisor: _____ Date Reported: ___/___/___

•Phone: (443) 681-3857 •Fax: (443) 681-4507



State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
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: E18001013 Date Coll.: 09/07/2017 Date Received: 09/08/2017 Submitted By: Collins

Field ID: 12403 SC-A
Lab No.: E18001013001

<u>Method</u>	<u>Element</u>	<u>Result</u>	<u>Units</u>	<u>Date Analyzed</u>
EPA 200.7	Sodium	75.80	ppm	09/11/2017

Comments:

Approved by: Yungsoo Choi

Approval date: 09/13/2017


**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.

Send Report To: Bert Nixon

Howard County Health Dept
Bureau of Environmental Health
8930 Stanford Blvd
Columbia, MD 21045

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

Lab No. D-1

E18001013002
Received: 09/08/2017
Metals 12403 SC-B
Do not write above this line

LABORATORY ANALYSIS REQUEST

Please Print

Sample ID No: 12403 SC-B Site Name: The Orchard - Lot 1 County: Howard

Sample Source: 12403 All Daughters Lane Fulton Collector: S. Collins
Street Town or City Name

Date Collected: 9 / 7 / 2017 Time Collected: 9:45a.m. _____ p.m. Phone #: 410-313-6287

Sample Preserved By: Field ESRL WMRL Central Lab
Preservative Used: HNO₃ _____ mL pH: 2.2

Sample Type: Drinking Water Landfill Source (Raw Water) Liquid
Data Category: Community Stream Distribution (Treated) Solid
Code Non-Community Sediment Other _____
 Private

Specify Program: SDWA NPDES CWA RCRA Consumer Products Other _____

Type of Sample Preparation: Total Metals Total Metals TCLP Dissolved Metals
(field preparation required)

Remarks: Sample collected post water softener from kitchen sink.

✓	Element	Results (ppm)	✓	Element	Results (ppm)
	Antimony (Sb)			Copper (Cu)	
	Arsenic (As)			Lead (Pb)	
	Barium (Ba)			Silver (Ag)	
	Beryllium (Be)			Zinc (Zn)	
	Cadmium (Cd)			Aluminum (Al)	
	Chromium (Cr)			Iron (Fe)	
	Mercury (Hg)			Manganese (Mn)	
	Nickel (Ni)			Calcium (Ca)	
	Selenium (Se)			Magnesium (Mg)	
✓	Sodium (Na) <u>SHS</u>			Potassium (K)	
	Thallium (Tl)			Uranium (U)	
				Vanadium (V)	

Lab Supervisor: _____

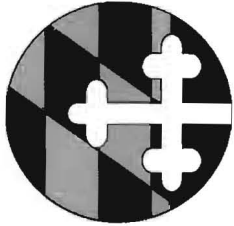
Date Reported: / /

• Phone: (443) 681-3857

• Fax: (443) 681-4507

DHMH 4432 (05/15)

SUBMITTER'S COPY



State of Maryland
Department of Health
Laboratories Administration
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TRACE METALS LABORATORY
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Robert Myers, Ph.D., Director



Certificate of Analysis

HOWARD CO ENVIRONMENTAL HLTH
8930 STANFORD BLVD
COLUMBIA, MD 21045

Lab Project No: E18001013 Date Coll.: 09/07/2017 Date Received: 09/08/2017 Submitted By: Collins

Field ID: 12403 SC-B
Lab No.: E18001013002

<u>Method</u>	<u>Element</u>	<u>Result</u>	<u>Units</u>	<u>Date Analyzed</u>
EPA 200.7	Sodium	81.60	ppm	09/11/2017

Comments:

Approved by: Yungsoo Choi

Approval date: 09/13/2017

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INORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director



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HOWARD CO ENVIRONMENTAL HLTH
8930 STANFORD BLVD
COLUMBIA, MD 21045

Lab Project NoE18001012 Date Coll. 09/07/2017 Date Received 09/08/2017 Submitted By: S. Collins

Field ID: 12403 SC-B
Lab No.: E18001012002

<u>Analyte</u>	<u>Method</u>	<u>Result</u>	<u>Units</u>	<u>Date Analyzed</u>
Chloride	SM 4500-Cl E	328	mg/L	09/11/2017
Total Dissolved Solids	SM 2540C	1023	mg/L	09/13/2017

Comments:

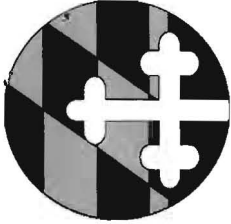
Approved by: _____

Shabba Aneli

Approval date: 09/25/2017

*The following methods are included in our A2LA Scope of Accreditation: EPA150.1, EPA353.2, EPA375.2, SM4500F C, SM 4500-CN G & QCM-CN, QCM-CN.

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8930 STANFORD BLVD
COLUMBIA, MD 21045

Lab Project NoE18001012 Date Coll. 09/07/2017 Date Received 09/08/2017 Submitted By: S. Collins

Field ID: 12403 SC-A
Lab No.: E18001012001

<u>Analyte</u>	<u>Method</u>	<u>Result</u>	<u>Units</u>	<u>Date Analyzed</u>
Chloride	SM 4500-Cl E	327	mg/L	09/11/2017
Total Dissolved Solids	SM 2540C	1066	mg/L	09/13/2017

Comments:

Approved by:

Approval date: 09/25/2017

*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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