

C1 65167

SEQUENCE NO.
(MDE USE ONLY)STATE OF MARYLAND
WELL COMPLETION REPORT
FILL IN THIS FORM COMPLETELY
PLEASE TYPETHIS REPORT MUST BE SUBMITTED WITHIN
45 DAYS AFTER WELL IS COMPLETED.COUNTY
NUMBER1 2 3 6
(THIS NUMBER IS TO BE PUNCHED
IN COLS. 3-6 ON ALL CARDS)

ST/CO USE ONLY

DATE Received

MM DD YY
8 13

DATE WELL COMPLETED

MM DD YY
2-19-20Approved
4/6/20

Depth of Well

200

(TO NEAREST FOOT)

PERMIT NO.
FROM "PERMIT TO DRILL WELL"

HO-18-0153

28 29 30 31 32 33 34 35 36 37

OWNER Tall Brothers
WELL SITE ADDRESS Padding Lane first name ELLICOTT CITY
SUBDIVISION Kings Forest Estate SECTION 24 LOT 24

WELL LOG

Not required for driven wells

STATE THE KIND OF FORMATIONS PENETRATED, THEIR
COLOR, DEPTH, THICKNESS AND IF WATER BEARING

DESCRIPTION (Use additional sheets if needed)	FEET		check if water bearing
	FROM	TO	
Clay	0	10	
Sand/clay	10	55	
Gray limestone	55	120	
Fracture	120	121	✓
Gray limestone	121	180	
Fracture	180	181	✓
Gray limestone	181	200	

GROUTING RECORD

WELL HAS BEEN GROUTED
(Circle Appropriate Box)YES NO
Y N

TYPE OF GROUTING MATERIAL (Circle one)

CEMENT CM BENTONITE CLAY BC

NO. OF BAGS 45 46 12 NO. OF POUNDS 45 46 300

GALLONS OF WATER 300

DEPTH OF GROUT SEAL (to nearest foot)

from 48 TOP 0 52 ft. to 54 BOTTOM 67 58 ft.
(enter 0 if from surface)

CASING RECORD

casing
types
insert
appropriate
code
belowST CO
STEEL CONCRETE
PL OT
PLASTIC OTHERMAIN CASING TYPE ST
Nominal diameter top (main) casing (nearest inch) 06
Total depth of main casing (nearest foot) 69

OTHER CASING (if used)

EACH CASING ST 10 0 28
diameter inch from to

SCREEN RECORD

screen type
or open hole
insert
appropriate
code
belowST BR HO
STEEL BRASS OPEN
PL BRONZE HOLE
PLASTIC OTHER

NUMBER OF UNSUCCESSFUL WELLS:

WELL HYDROFRACTURED

YES NO
Y N

CIRCLE APPROPRIATE LETTER

- A A WELL WAS ABANDONED AND SEALED
WHEN THIS WELL WAS COMPLETED
- E ELECTRIC LOG OBTAINED
- P TEST WELL CONVERTED TO PRODUCTION
WELL

I HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN
ACCORDANCE WITH COMAR 26.04.04 "WELL CONSTRUCTION" AND
IN CONFORMANCE WITH ALL CONDITIONS STATED IN THE ABOVE
CAPTIONED PERMIT, AND THAT THE INFORMATION PRESENTED
HEREIN IS ACCURATE AND COMPLETE TO THE BEST OF MY
KNOWLEDGE.

DRILLERS LIC. NO. 1 M S D 224

DRILLERS SIGNATURE

(MUST MATCH SIGNATURE ON APPLICATION)

LIC. NO. 1 D

SITE SUPERVISOR (sign. of driller or journeyman
responsible for sitework if different from permittee)GRAVEL PACK
IF WELL DRILLED
WAS FLOWING WELL
INSERT F IN BOX 68MDE USE ONLY
(NOT TO BE FILLED IN BY DRILLER)

T (E.R.O.S.) W Q

70 72 74 75 76
TELESCOPE LOG OTHER DATA
CASING INDICATOR

C 3

PUMPING TEST

HOURS PUMPED (nearest hour) 3

PUMPING RATE (gal. per min.) 5

METHOD USED TO
MEASURE PUMPING RATE 1900

WATER LEVEL (distance from land surface)

BEFORE PUMPING 8 ft.

WHEN PUMPING 92 ft.

TYPE OF PUMP USED (for test)

A air P piston T turbine
27 27 27
C centrifugal R rotary O other (describe below)
27 27 27
J jet S submersible
27 27

PUMP INSTALLED

DRILLER INSTALLED PUMP YES NO

IF DRILLER INSTALLS PUMP, THIS SECTION
MUST BE COMPLETED FOR ALL WELLS.TYPE OF PUMP INSTALLED
PLACE (A,C,J,P,R,S,T,O)
IN BOX 29CAPACITY:
GALLONS PER MINUTE
(to nearest gallon) 31 35

PUMP HORSE POWER 37 41

PUMP COLUMN LENGTH
(nearest ft.) 43 47CASING HEIGHT (circle appropriate box
and enter casing height)+ above } LAND SURFACE 2 (nearest foot)
- below }LATITUDE 39.252963
LONGITUDE 76.882905
(DEFAULT COORD. WGS 84)Pursuant to §10-624 of the State Govt. Article of
the Maryland Code personal info. requested on
this form is used in processing this form pursuant
to COMAR 26.04.04. Failure to provide the info.
may result in this form not being processed. You
have the right to inspect, amend, or correct this
form. The Maryland Department of the
Environment is subject to the Maryland Public
Information Act. This form may be made
available on the Internet via MDE's website and is
subject to inspection or copying, in whole or in
part, by the public and other governmental
agencies, if not protected by federal or state law.

B 1 <div style="font-size: 2em; font-weight: bold; margin-top: 10px;">66418</div>	SEQUENCE NO. (MDE USE ONLY)	<div style="text-align: center;"> STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL <i>Ida 427-7</i> please type </div>	STATE PERMIT NUMBER <div style="font-size: 1.5em; font-weight: bold; margin-top: 10px;">HO - 18 - 0153</div> <div style="font-size: 0.8em;">fill in this form completely</div>
Date Received (APA) <div style="font-size: 1.5em; font-weight: bold; margin-top: 10px;">11/1/19</div>	B 3 LOCATION OF WELL		
OWNER INFORMATION <div style="font-size: 1.2em; font-weight: bold; margin-top: 10px;">Jell Brothers</div> <div style="font-size: 1.2em; font-weight: bold; margin-top: 10px;">2164 Columbia Gateway Dr.</div> <div style="font-size: 1.2em; font-weight: bold; margin-top: 10px;">Columbia Md 21046</div>		<div style="font-size: 1.2em; font-weight: bold; margin-top: 10px;">Howard</div> <div style="font-size: 1.2em; font-weight: bold; margin-top: 10px;">Kings Forest</div> <div style="font-size: 1.2em; font-weight: bold; margin-top: 10px;">Ellicott City</div>	
DRILLER INFORMATION <div style="font-size: 1.2em; font-weight: bold; margin-top: 10px;">Andrew Houseman</div> <div style="font-size: 1.2em; font-weight: bold; margin-top: 10px;">Fogles Well Drilling, LLC</div> <div style="font-size: 1.2em; font-weight: bold; margin-top: 10px;">P.O. Box 202 Woodbine Md 21797</div> <div style="font-size: 1.2em; font-weight: bold; margin-top: 10px;">11-1-19</div>		B 4 SOURCES OF DRILLING WATER <div style="font-size: 1.2em; font-weight: bold; margin-top: 10px;">Well water</div> <div style="font-size: 1.2em; font-weight: bold; margin-top: 10px;">2 2 20</div>	
B 2 WELL INFORMATION APPROX. PUMPING RATE (GAL. PER MIN.) <div style="font-size: 1.5em; font-weight: bold; margin-top: 10px;">5</div> AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) <div style="font-size: 1.5em; font-weight: bold; margin-top: 10px;">500</div>		<div style="font-size: 1.5em; font-weight: bold; margin-top: 10px;">Pudding Lane</div> <div style="font-size: 1.2em; font-weight: bold; margin-top: 10px;">220</div> <div style="font-size: 1.2em; font-weight: bold; margin-top: 10px;">23</div> <div style="font-size: 1.2em; font-weight: bold; margin-top: 10px;">23</div> <div style="font-size: 1.2em; font-weight: bold; margin-top: 10px;">148</div>	
USE FOR WATER (CIRCLE APPROPRIATE BOX) <input checked="" type="radio"/> DOMESTIC POTABLE SUPPLY & RESIDENTIAL IRRIGATION <input type="radio"/> FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION) <input type="radio"/> INDUSTRIAL, COMMERCIAL, DEWATERING <input type="radio"/> PUBLIC WATER SUPPLY WELL <input type="radio"/> TEST, OBSERVATION, MONITORING <input type="radio"/> OPEN LOOP GEOTHERMAL <input type="radio"/> CLOSED LOOP GEOTHERMAL		NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL <div style="font-size: 1.2em; font-weight: bold; margin-top: 10px;">Howard</div> <div style="font-size: 1.2em; font-weight: bold; margin-top: 10px;">13</div> <div style="font-size: 1.2em; font-weight: bold; margin-top: 10px;">01/14/20</div> <div style="font-size: 1.2em; font-weight: bold; margin-top: 10px;">2/14/21</div>	
APPROXIMATE DEPTH OF WELL <div style="font-size: 1.5em; font-weight: bold;">300</div> FEET APPROXIMATE DIAMETER OF WELL <div style="font-size: 1.5em; font-weight: bold;">6</div> INCH		PROPOSED LOCATION OF WELL ON LOT SHOW PERMANENT STRUCTURES SUCH AS BUILDINGS, SEPTIC SYSTEM, ROADS AND/OR LANDMARKS AND INDICATE NOT LESS THAN TWO DISTANCE MEASUREMENTS TO WELL 	
METHOD OF DRILLING (circle one) <input checked="" type="radio"/> BORED (or Augered) <input type="radio"/> JETTED <input type="radio"/> Jetted & DRIVEN <input checked="" type="radio"/> AIR-ROTARY <input type="radio"/> AIR-PERCussion <input type="radio"/> ROTARY (Hydraulic Rotary) <input type="radio"/> CABLE <input type="radio"/> REVERSE-ROTARY <input type="radio"/> DRIVE-POINT other _____		REPLACEMENT OR DEEPEMED WELLS (CIRCLE APPROPRIATE BOX) <input checked="" type="radio"/> THIS WELL WILL NOT REPLACE AN EXISTING WELL <input type="radio"/> THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED <input type="radio"/> THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY-CONTACT LOCAL APPROVING AUTHORITY FOR POLICY ON STANDBY WELLS <input type="radio"/> THIS WELL WILL DEEPEMED AN EXISTING WELL PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEMED (IF AVAILABLE) 41 _____ 52 _____	
Not to be filled in by driller (MDE OR COUNTY USE ONLY) APPROP. PERMIT NUMBER <div style="font-size: 1.2em; font-weight: bold;">HO 20 L 8 G 004</div> PERMIT No. <div style="font-size: 1.2em; font-weight: bold;">HO - 18 - 0153</div>			
SPECIAL CONDITIONS RADIUM SAMPLES REQUIRED, SODIUM, CHLORIDE AND TDS SAMPLES REQUIRED NOTE: APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED.			

[illegible]



Bureau of Environmental Health
8930 Stanford Blvd | Columbia, MD 21045
410.313.2640 - Voice/Relay
410.313.2648 - Fax
1.866.313.6300 - Toll Free

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

Information Form for the Installation of the Well Pump, Pitless Adapter, and Supply Piping

NOTE: The installer is responsible for requesting an inspection prior to 9 am on the day of the desired inspection. No work is to be covered until approved by the Health Department. All installations must comply with the National Standard Plumbing Code (NSPC, as amended locally) and COMAR 26.04.04 (MD Well Construction Regulations).

Submission of a complete form is required prior to Use and Occupancy approval.

Company Name: Fogle's Well Pump + Water Treatment, LLC Telephone #: 410-795-1535

Address: P.O. Box 63

Woodbine, Maryland 21797

Must circle one: Licensed Plumber / Licensed Well Driller / Licensed Well Pump Installer

License # and name of individual responsible for the field installation:

Name (Print): Dave C. Fogle License# MSD226

*A licensed individual must perform the actual installation. Apprentices must be under the supervision of a licensed journeyman or master plumber, pump installer or well driller. Licenses may be subjected to field verification. Unlicensed individuals may be reported to the appropriate licensing agency.

Name of Property Owner: Tall Brothers Telephone #: _____

Subdivision: Kingsley Woods Lot #: 24 Well Tag #: HO-K8-0153 ✓

Site Address: 10511 Pudding Lane
Ellicott City, MD 21042

Submersible Pump Data

Make: Gundorf

Model #: ISSQEQ180

Pump Capacity: 15

Well Yield: 5

Depth of well encountered at time of pump installation: 200 (feet)

If pump capacity exceeds well yield, a low water cut off switch is required by NSPC 1990 Section 17.8.4

Must circle one: Torque arrestors / Cable guards / Other acceptable method used

Safety rope, if used, attached to brass rope adapter or other acceptable method inside of well casing N/A

Pitless Adapter

Make: Campbell

Model#: N/A

GPM Depth: 36" (36" min)

GPM NSF/WSC approved: yes

Well Cap and Electric Conduit

Two piece watertight cap: yes

Screened, vented well cap: yes

Cap secured to casing: yes

Conduit min 18" B.G.: yes

Conduit secured to well cap: yes

Piping to house

Type: 1" poly pipe

PSI: 200 psi (160 psi min)

Depth of supply line: 36" (36" min)

House Connection

PVC sleeve to undisturbed soil at wall penetration: yes

Length of sleeve (5' minimum from foundation): 6'

Sleeve sealed properly: yes

The water supply line is required to be at least ten feet from the septic tank, pump chamber, sewage piping, distribution box, drainfields, and sewage reserve area. If this cannot be accomplished, contact this office for approval prior to installation.

Signature of company representative responsible for installation

Date

2/21/2023

For Health Department Use Only – Not to be completed by Installer

Date Insp. Requested: _____ Date Insp. Approved: 2/21/23 Inspector: SP

Inspection Data: Pitless adapter watertight & water supply line at least 36" below grade

Two piece cap installed and attached to casing securely

Elec. conduit extends at least 18" below grade/attached to cap properly

Safety rope not outside of well cap/casing

Correct well tag attached properly and casing 8" above finished grade

Water supply line sleeved adequately at house connection

Adequate grout observed below pitless adapter

40"
3"
1"
✓
✓
✓
✓
✓
✓

INTERIM CERTIFICATE OF POTABILITY

Expiration Date – December 28, 2023

June 28, 2023

Homeowner
10540 Pudding Lane
Ellicott City, MD 21042

**RE: Kingsley Woods, Lot 24
10540 Pudding Lane
Building Permit: B21003434
Well Permit: HO-18-0153**

Dear Homeowner:

This is to advise you that the septic system installation and water well construction for the above referenced property have been inspected and approved. Final approval of the septic system was granted on **6/26/2023**. Final approval of the well line connection to the dwelling was granted on **2/21/2023**. The well construction was completed on **2/19/2020**. Water samples were collected on **5/18/2023**.

The water sample results indicate that the water samples submitted for testing were free of coliform and fecal coliform bacteria at the time of sampling and are bacteriologically safe for drinking.

Gross Alpha and Beta samples were also collected on **2/19/2020**. Results showed a Gross Alpha level of **5.1 ± 1.4 pCi/L** and Gross Beta level of **6.7 ± 1.8 pCi/L**. The Gross Alpha was below the maximum contaminant level (MCL) of 15 pCi/L and the Gross Beta was below the target level of 50pCi/L (roughly equivalent to the annual dose rate of 4 millirems per year). At the time of testing and with respect to these parameters, the well water is safe for all uses.

This certifies that the initial sampling requirements of COMAR 26.04.04 "Well Regulations" have been met for the water supply system installed under well permit HO-18-0153. Although the submitted sample results are in compliance with COMAR standards, the Health Department does not guarantee water supplies.

This Interim Certificate of Potability will expire **six months** from the date of issuance. Submission of a second bacteriological test indicating the water is free of coliform and fecal coliform bacteria is required prior to the expiration date, after which time a Final Certificate of Potability will be issued. **Failure to submit an additional sample and obtain a Final Certificate of Potability will result in a Notice of Violation and is punishable as a misdemeanor under the Annotated Code of Maryland, Environment Article, 9-1311, subject to a fine of up to \$500 or imprisonment not to exceed three months.**



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1.866.313.6300 - Toll Free

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

Please contact (410) 313-1773 to schedule a final water sample appointment or contact a certified water quality laboratory to schedule a water sample. A list of laboratories certified by the state of Maryland may be found at the following website: <http://www.mde.state.md.us/assets/document/WSP-Labs-2010apr16.pdf>

In closing, please refer to our "Homeowner Fact Sheet" for understanding your onsite sewage disposal system. You will also find a link to Maryland Department of the Environments website which elaborates in further detail operation and maintenance of your Septic System.

Approving Authority,

Kevin M Wolf, L.E.H.S., REHS/R.S., Supervisor
Groundwater Management Section
Well & Septic Program

cc: Howard County Dept. of Inspections, Licenses, and Permits
Community Hygiene Program
File

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

March 17, 2020

Toll Brothers
7164 Columbia Gateway Drive
Columbia, Maryland 21045

RE: Kings Forest Lot 24
Pudding Lane
Well Tag: HO – 18 – 0153

To Who it May Concern:

A sample was collected during a yield test on February 19, 2020 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 screening revealed a **Gross Alpha** of **5.1 ± 1.4 picocuries/liter (pCi/L)**, while the **Gross Beta** level was **6.7 ± 1.8 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 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, the well water supply is **within** EPA regulatory standards. Additional testing **for these parameters** will not be required to secure the future Use & Occupancy. Please **note** that other standard testing parameters (bacteria, nitrate, turbidity and sand) will still be needed to help secure Use & Occupancy.

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

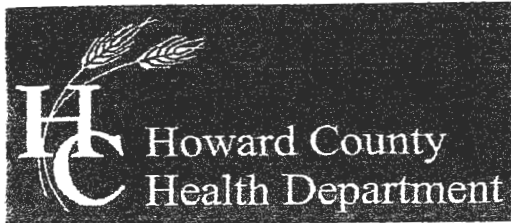
Sincerely,



Bert Nixon, Director
Bureau of Environmental Health

Enclosure

✓ cc: Property file
Theresa Miller, Fogles



Bureau of Environmental Health

8930 Stanford Boulevard, Columbia, MD 21045

Main: 410-313-2640 | Fax: 410-313-2648

TDD 410-313-2323 | Toll Free 1-866-313-6300

www.hchealth.org

Facebook: www.facebook.com/hocohealth

Twitter: HowardCoHealthDep

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

TO ALL INTERESTED PARTIES

When submitting a well permit application for a proposed well for new construction, please indicate one of the following:

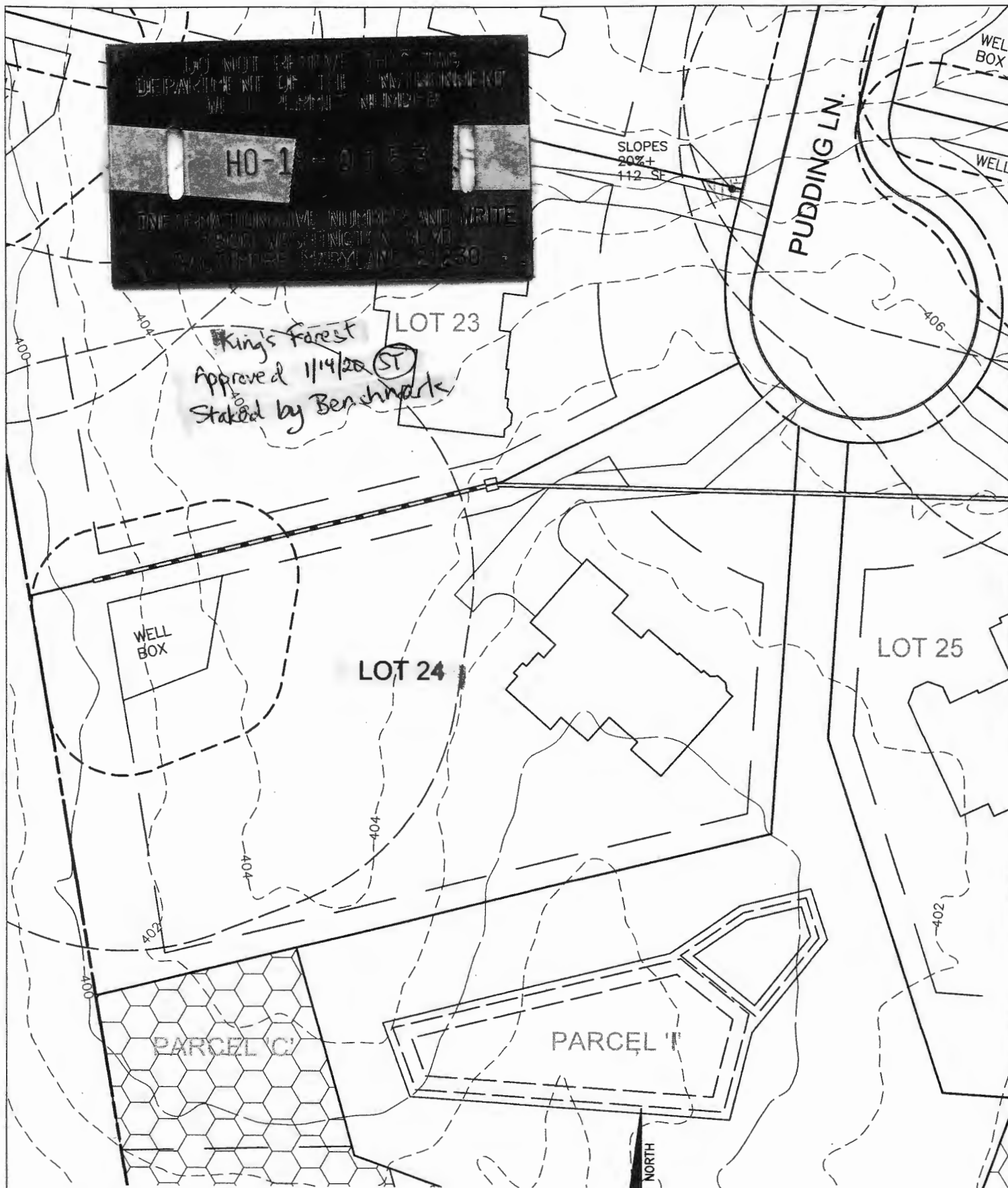
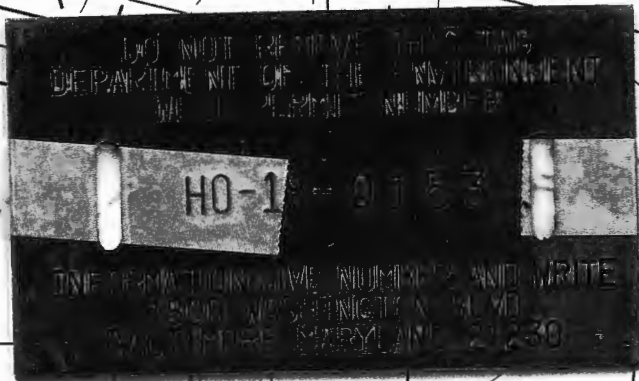
Well Site Location:

Kings Forest ^{#18 thru 35}
Subdivision/Property Name Lot # Pudding Lane
Road Name

☒ The well site has been staked by Benchmark
(professional land surveyor or company employing professional land surveyors)
on Oct 22, 2019 (date) and does not require a site inspection.

☐ The well driller, builder or property owner will call the Health Department to schedule a time to meet in the field to verify the proposed well site location.

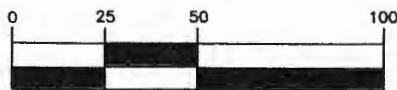
This sheet, along with two copies of an acceptable well site plan, must be attached to the green well permit application.



BENCHMARK
ENGINEERS & LAND SURVEYORS & PLANNERS
ENGINEERING, INC.

5480 BALTIMORE NATIONAL PIKE & SUITE 315 A ELICOTT CITY, MARYLAND 21043
(P) 410-485-6105 (F) 410-485-6644

WWW.BEI-CVLENGINEERING.COM



(IN FEET)
1 inch = 50 ft.



KINGS FOREST WELL EXHIBIT

LOT 24

DATE: OCTOBER, 2019
SCALE: 1" = 50'

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

MEMORANDUM

TO: Fogle's Well Drilling
580 Obrecht Road
Sykesville, MD 21784

FROM: Susan Thomas
Environmental Health Specialist (S) 12/27/19
Howard County Health Department
Well & Septic Program

RE: Kings Forest Subdivision – Well Permits Lots 1-36 and Parcel D
Special Conditions for wells

DATE: December 26th, 2019

The following comments apply to the above referenced Well Permit Applications. Please read through and complete as needed.

- A. Lots 17, 26, 27, and 33-35 will require 50' of Steel Casing or 10' into competent bedrock, whichever is deeper.**

10. A waiver for the location of the septic systems and wells, as shown on [Revised Percolation Certification Signed 11/12/2019] has been approved by MDE. As a condition of the approved [sic] of this waiver the initial and all replacement wells on lots 17, 26, 27, and 33 – 35 will require Steel Casings to be installed to 50' or 10' into competent bedrock, whichever is deeper.

- B. All lots in the Kings Forest Subdivision are within the Baltimore Gneiss Formation and will require Water Quality Tests for Radium to be collected at the time of the Yield Test.**
- C. If the wells on Lot 13 or Lot 28 are within 10' of the driveway the well must be surrounded by bollards.**
- D. Lots 2, 8, 9, 13, 18, 21, 24, 26, 27, 28, 33, 34 and 35 will require samples for Sodium, Chloride and TDS to be collected at the time of the Yield Test.**



Bureau of Environmental Health

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TDD 410-313-2323 | Toll Free 1-866-313-6300

www.hchealth.org

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

Sodium, Chloride and Total Dissolved Solids water sampling results

February 17, 2021

Toll Brothers

7164 Columbia Gateway Dr, Suite 230

Columbia, MD 21046

Re: Kings Forest Lot 24
Pudding Ln
Well Permit: HO-18-0153

Dear Toll Brothers,

The Health Department received results from the testing for sodium, chloride, and total dissolved solids (TDS) from your well water. These samples were collected directly from the raw well water when your well was drilled.

Sodium from your well measured 7.4 mg/L. There is no maximum contaminant level for sodium, however elevated sodium levels in drinking water could affect individuals on low-salt diets. 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 <10 mg/L.** The secondary maximum contaminant level for TDS is 500 mg/L; **TDS from your well measured 88 mg/L.**

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

Respectfully,

Susan Thomas
Environmental Health Specialist
Howard County Health Department
Well and Septic Program
410-313-6287
sathomas@howardcountymd.gov

✓ Cc: File

FOUNTAIN VALLEY ANALYTICAL LABORATORY, INC.

1413 Old Taneytown Rd. Westminster, MD (410) 848-1014 (410) 876-4554

REPORT OF ANALYSIS

Laboratory ID #:	159136	Account #:	1933
Reference:	Kingsley Woods Lot 24	Client:	Fogle's Well Pump & Treatment
Location:	10540 Pudding Lane	Requested By:	Dave Fogle
	Ellicott City, MD 21042	Source:	Well Water
Date/ Time Collected:	5/18/2023 1030	Site:	Pressure Tank
Date/Time Rec'd:	5/18/2023 1154	Treatment:	None
Chlorine ppm:	Free: ND Total: ND	pH:	6.3
Collected By:	J. Evans 0309JE	Well #:	HO-18-0153

PARAMETERS	RESULTS	UNITS	REFERENCE	METHOD	DATE/TIME/ANALYST
Bacteria, Coliform, Total, MPN	<1.0	MPN/ 100 ml	<1.0	SM20 9223B	5/19/2023 / 0845 / TSD
Bacteria, E. coli, MPN	<1.0	MPN/ 100 ml	<1.0	SM20 9223B	5/19/2023 / 0845 / TSD
Nitrate.	<0.40	mg/L	10	EPA 300.0	5/18/2023 / 1401 / TSD
Turbidity	8.06	NTU	<10	SM2130B	5/18/2023 / 1550 / TSD
Sand	ND	mg/L	5	Visual/Gravimetric	5/18/2023 / 1545 / TSD

NOTES:

- 1 mg/L = milligrams per liter (also, parts per million)
- 2 MPN/ 100 ml = Most Probable Number [of viable bacteria] per 100 ml of sample.
- 3 NTU = Nephelometric Turbidity Units
- 4 Results less than or within the reference range are considered satisfactory and within potable water limits at the time of sampling.
- 5 Sample collected by client, analyzed as received
- 6 ND:None Detected
- 7 Visual well check: Sealed, vented cap
- 8 pH and Chlorine level tested in lab (pH tested after recommended holding time)

Reason for Test : Use & Occupancy

Building Permit # : 21003434

Date Reported: 5/18/2023



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 NoE20002818 Date Coll. 02/19/2020 Date Received: 02/20/2020 Submitted By: Thomas

Field ID: HOST0153CLTDS

Lab No.: E20002818001

<u>Analyte</u>	<u>Method</u>	<u>Result</u>	<u>Units</u>	<u>Date Analyzed</u>
Chloride	SM 4500-Cl E	<10	mg/L	02/24/2020
Total Dissolved Solids	SM 2540C	88	mg/L	02/21/2020

Comments:

Approved by:

Approval date: 02/25/2020

*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. Samples are tested as received.

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) 767-6190 and arrange for return or destruction.

SEND REPORT TO:

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

Lab No.

Howard County Health Department
Bureau of Environmental Health
8930 Stanford Blvd.
Columbia, Maryland 21045

LABORATORY ANALYSIS REQUEST FORMPlant/Site Name: Kelly's / Kings Forest Lot 1County: HowardSample Source: 1 - 1/2" PVC WellLocation: 40-12-0153

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

Radon-222 Bottle A 1000

Radon-222 Field Blank

Bottle A 1000Bottle B 1000Bottle B 1000County 1Plant No. 1

CHECK (one per Box)

Type	
Drinking Water	<input checked="" type="checkbox"/>
Landfill	<input type="checkbox"/>
Stream	<input type="checkbox"/>
Other	<input type="checkbox"/>

Service	
Community	<input type="checkbox"/>
Non-Community	<input type="checkbox"/>
Private	<input checked="" type="checkbox"/>
Other	<input type="checkbox"/>

Point of Collection	
Source (Raw)	<input checked="" type="checkbox"/>
Distribution (treated)	<input type="checkbox"/>
MCL	<input type="checkbox"/>

Testing	
Emergency	<input type="checkbox"/>
Routine	<input checked="" type="checkbox"/>
Recheck	<input type="checkbox"/>
Special	<input type="checkbox"/>

Submitters Code: 1Federal Project: 1Collector: 1Telephone No.: 1Date Collected: 2/1/01Time Collected: 10:00 a.m. 4:00 p.m.Field pH: 7.5Field Chlorine: 1.0Nitric Acid Preserved: Yes ☒ No ☐Iced: Yes ☐ No ☒Remarks: 1

<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	1724	1724	5.0 ± 1.4	2/1/01	1724	2/1/01
<input checked="" type="checkbox"/>	Gross Beta	4100	1724	1724	6.7 ± 1.8	2/1/01	1724	2/1/01
<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: 2/1/01 Received By: 1Data Release Signature: 1 Date: 2/1/01

Lab Use Only	Yes	No	N/A
Sample Intact upon arrival?			
Sample pH <2.0?			
Received within holding time?			

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

SEND REPORT TO: Bert W...

Howard County Health Department
Bureau of Environmental Health
 8930 Stanford Blvd.
 Columbia, Maryland 21045

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

Lab No.

E001782#208

LABORATORY ANALYSIS REQUEST FORM

Plant/Site Name: Budding Ln, King's Forest Lots 25+24 County: Howard

Sample Source: Budding Ln, King's Forest, Lots 25+24 Location: Field Blank
 (Well no., lab sink, sample tap, etc.)

Radon-222 Bottle A _____ Radon-222 Field Blank _____ Bottle A 1051FB2524
 Bottle B _____ Bottle B _____

County 13 Plant No.

--	--	--	--	--	--	--	--	--	--

CHECK (one per Box)

Type	
Drinking Water	<input checked="" type="checkbox"/>
Landfill	<input type="checkbox"/>
Stream	<input type="checkbox"/>
Other	<input type="checkbox"/>

Service	
Community	<input type="checkbox"/>
Non-Community	<input type="checkbox"/>
Private	<input checked="" type="checkbox"/>
Other	<input type="checkbox"/>

Point of Collection	
Source (Raw)	<input checked="" type="checkbox"/>
Distribution (treated)	<input type="checkbox"/>
MCL	<input type="checkbox"/>

Testing	
Emergency	<input type="checkbox"/>
Routine	<input checked="" type="checkbox"/>
Recheck	<input type="checkbox"/>
Special	<input type="checkbox"/>

Submitters Code: 4 F Federal Project: ☐

Collector: Susan Thomas Telephone No.: 410-313-6287

Date Collected: 12/19/20 Time Collected: 9:13 a.m. 3 p.m.

Field pH: 6.5 Field Chlorine: neg

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	1782	EPA 900.0	12.0	2/21/2020	RH	2/25/2020
<input checked="" type="checkbox"/>	Gross Beta	4100	1782	EPA 900.0	14.0	2/21/2020	RH	2/25/2020
<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: 2/17/20 Received By: R. Holmes

Data Release Signature: Whernisha Green Date: 02/26/20

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 County Health Department
Bureau of Environmental Health
30 Stanford Blvd.
Columbia, Maryland 21045

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


E20002819001
Received: 02/20/2020
Metals
HOST0153NA

LABORATORY ANALYSIS REQUEST

Do not write above this line

Please Print

Sample ID No: HOST0153NA Site Name: Budding Ln, King's Forest Lot 24 County: Howard

Sample Source: Budding Lane, King's Forest Lot 24 Collector: Susan Thomas
Street Town or City Name

Date Collected: 2/19/2020 Time Collected: 2:40 a.m. / p.m. Phone #: 410-313-6287
pH < 2 p.p.m. 12-20-20

Sample Preserved By: ☐ Field ☒ ESRL ☐ WMRL ☐ Central Lab

Preservative Used: ☒ HNO₃ 2 mL pH: 6.0

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)

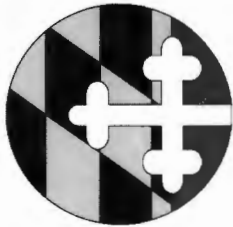
Remarks: collected at end of yield

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

Lab Supervisor: _____ Date Reported: ____/____/____

•Phone: (443) 681 - 4596

•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: E20002819 Date Coll.: 02/19/2020 Date Received: 02/20/2020 Submitted By: Thomas

Field ID: HOST0153NA
Lab No.: E20002819001

<u>Method</u>	<u>Element</u>	<u>Result</u>	<u>Units</u>	<u>Date Analyzed</u>
EPA 200.7	Sodium	7.40	ppm	02/28/2020

Comments:

Approved by:

Wanda L. Tresson

Approval date: 03/03/2020

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

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