

C1 63443 SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND WELL COMPLETION REPORT

THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED.

(THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)

COUNTY NUMBER

ST/CO USE ONLY DATE RECEIVED

DATE WELL COMPLETED 10/29/20 APPROVED 1/20/21 ST 22

PERMIT NO. FROM "PERMIT TO DRILL WELL" HO-18-0179

OWNER: Tolt Brothers; WELL SITE ADDRESS: Pudding Lane; TOWN: Ellicott City; SUBDIVISION: Kings Forest; SECTION: ; LOT: 2

WELL LOG

Not required for driven wells

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

Table with columns: DESCRIPTION, FEET (FROM, TO), check if water bearing. Includes entries for Sand, Gray Schist, Broken, Gray Limestone, Fracture, and Gray limestone.

GROUTING RECORD

WELL HAS BEEN GROUTED (Y/N); TYPE OF GROUTING MATERIAL (CEMENT, BENTONITE CLAY); NO. OF BAGS, NO. OF POUNDS, GALLONS OF WATER, DEPTH OF GROUT SEAL.

CASING RECORD

MAIN CASING TYPE (ST, PL); Nominal diameter top (main) casing; Total depth of main casing.

OTHER CASING (if used) diameter, depth.

SCREEN RECORD: screen type or open hole (ST, BR, HO, PL, OT); DEPTH (nearest ft.)

NUMBER OF UNSUCCESSFUL WELLS: 0; WELL HYDROFRACTURED (Y/N)

CIRCLE APPROPRIATE LETTER: A (abandoned), E (electric log), P (test well converted to production)

I HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN ACCORDANCE WITH COMAR 26.04.04

DRILLERS LIC. NO.: MS D 224; DRILLERS SIGNATURE; LIC. NO.: D

SITE SUPERVISOR (sign. of driller or journeyman responsible for sitework if different from permittee)

Table with columns: E, A, C, H, S, R, E, N; rows for depth intervals and slot size.

GRAVEL PACK IF WELL DRILLED WAS FLOWING WELL

MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER); TELESCOPE CASING, LOG INDICATOR, OTHER DATA

PUMPING TEST

HOURS PUMPED (nearest hour) 6; PUMPING RATE (gal. per min.) 2.7; METHOD USED TO MEASURE PUMPING RATE 1 gal; WATER LEVEL (distance from land surface) BEFORE PUMPING 13 ft, WHEN PUMPING 125 ft; TYPE OF PUMP USED (for test) S (submersible)

PUMP INSTALLED

DRILLER INSTALLED PUMP (CIRCLE) (YES or NO); TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O) IN BOX 29; CAPACITY: GALLONS PER MINUTE (to nearest gallon) 31-36; PUMP HORSE POWER 37-41; PUMP COLUMN LENGTH (nearest ft.) 43-47; CASING HEIGHT (circle appropriate box and enter casing height) + above, - below; LAND SURFACE 2 (nearest foot)

LATITUDE 39.259276; LONGITUDE 76.884455 (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.

**B 1** SEQUENCE NO. (MDE USE ONLY) **STATE OF MARYLAND** STATE PERMIT NUMBER  
**66472** **APPLICATION FOR PERMIT TO DRILL WELL** **HO-18-0179**  
1 2 3 6 5/24/20 please type 70 fill in this form completely 79

**OWNER INFORMATION**  
 Date Received (APA) 5/24/20  
8 MM DD YY 13  
 15 Last Name Toll Brothers Owner First Name Toll 34  
 36 Street or RFD 7164 Columbia Gateway Dr 55  
 57 Town Columbia, Md 21046 70 State 72 Zip 76

**B 3** LOCATION OF WELL  
 8 COUNTY Howard 21  
 23 SUBDIVISION Kings Forest 42  
 SECTION 2 LOT 2  
44 46 48 50  
 52 NEAREST TOWN Ellicott City 71

**DRILLER INFORMATION**  
 Driller's Name Andrew Houseman M S D 224 76 License No. 81  
 Firm Name Loggs Well Drilling, LLC  
 Address P.O. Box 202 Woodlawn Md 21797  
 Signature Andrew Houseman Date 11-1-19

**B 4** SOURCES OF DRILLING WATER  
 1 Well water  
 2.  
 3.  
 11 STREET ADDRESS Reynolds Ct 30  
 ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)  
 NORTH  WEST  EAST  SOUTH   
 34 25 37 DISTANCE FROM ROAD FT  
 ENTER FT OR MI 38 39  
 TAX MAP: 23 BLK: 23 PARCEL 148

**B 2** WELL INFORMATION  
 1 APPROX. PUMPING RATE 5  
2 (GAL. PER MIN.) 8 12  
 AVERAGE DAILY QUANTITY NEEDED 500  
(GAL. PER DAY) 14 20

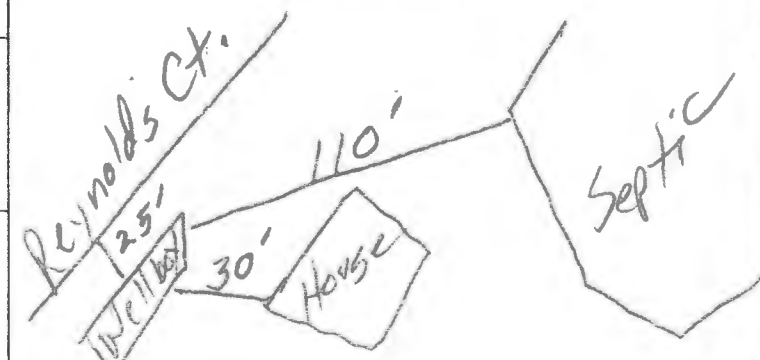
**USE FOR WATER** (CIRCLE APPROPRIATE BOX)  
 DOMESTIC POTABLE SUPPLY & RESIDENTIAL IRRIGATION  
 FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION)  
 INDUSTRIAL, COMMERCIAL, DEWATERING  
 PUBLIC WATER SUPPLY WELL  
 TEST, OBSERVATION, MONITORING  
 OPEN LOOP GEOTHERMAL  
 CLOSED LOOP GEOTHERMAL

**NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL**  
 COUNTY NAME Howard COUNTY NO. 13  
 STATE SIGNATURE \_\_\_\_\_ INSERT S → 41  
 DATE ISSUED 02/10/20 10/29/20  
43 MM DD YY 48 CQ SIGNATURE \_\_\_\_\_ EXP. DATE \_\_\_\_\_  
 DON: 10/26/2020 10/29/2020 10/29/2020

APPROXIMATE DEPTH OF WELL 300 FEET  
24 28  
 APPROXIMATE DIAMETER OF WELL 6 INCH  
 NEAREST 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)  
 BORED (or Augered)  JETTED  Jetted & DRIVEN   
 30 AIR-ROTARY  AIR-PERCussion  ROTARY (Hydraulic Rotary)   
 37 CABLE  REVERSE-ROTARY  DRIVE-POINT   
 other \_\_\_\_\_



**REPLACEMENT OR DEEPEMED WELLS** (CIRCLE APPROPRIATE BOX)  
 THIS WELL WILL NOT REPLACE AN EXISTING WELL  
 THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED  
 39  THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY-CONTACT LOCAL APPROVING AUTHORITY FOR POLICY ON STANDBY WELLS  
 THIS WELL WILL DEEPEMED \_\_\_\_\_  
 PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEMED (IF AVAILABLE) 41 \_\_\_\_\_

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.

**Not to be filled in by driller (MDE OR COUNTY USE ONLY)**  
 APPROP. PERMIT NUMBER HO 2018G004  
 PERMIT No. HO-18-0179  
70 71 72 73 74 75 76 77 78 79

**SPECIAL CONDITIONS** RADIUM SAMPLE REQUIRED, SODIUM, CHLORIDE AND TDS REQUIRED  
 NOTE: APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED

**FOGLE'S WELL DRILLING, LLC**  
**P.O. Box 202**  
**Woodbine, Md 21797**  
**443-609-4195**  
**FIELD DATA SHEET**  
**HOWARD COUNTY WELL YIELD TEST**

Well Permit No. HO-18-0179Location of Property: Putding Lane Ellicott City, MdSubdivision: Kings Forest Lot#: 2Well Driller/Tech: Fogles Andrew Houseman MSD224 Owner/Buyer: Toll BrothersDepth of Well: 300' Casing: 63' of 6" Steel Casing Pump Depth: 280'Distance of measuring point (M.P.) above ground: 2'Static water level (S.W.L.) below M.P.: 13'

High rate pumping –reservoir Drawdown

Time pump started: 7:00 Pumping rate: 10Total time 60 Mins to reach pumping water level 266 ft. below M.P.**Recovery pump test data – observations to be recorded every 15 minutes**

<b>TIME (in 15 minute intervals)</b>	<b>WATER LEVEL Below M.P.</b>	<b>PUMPING RATE Time to fill 1 gallon bucket</b>	<b>FLOW METER READING (if used)</b>	<b>CALCULATED FLOW (gallons per minute)</b>
7:00	13'	6 Seconds		10 gpm
7:15	23'	6 Seconds		10 gpm
7:30	108'	6 Seconds		10 gpm
7:45	127'	7 Seconds		8.5 gpm
8:00	125'	22 Seconds		2.7 gpm
8:15	125'	22 Seconds		2.7 gpm
8:30	125'	22 Seconds		2.7 gpm
8:45	125'	22 Seconds		2.7 gpm
9:00	125'	22 Seconds		2.7 gpm
9:15	125'	22 Seconds		2.7 gpm
9:30	125'	22 Seconds		2.7 gpm
9:45	125'	22 Seconds		2.7 gpm
10:00	125'	22 Seconds		2.7 gpm
10:15	125'	22 Seconds		2.7 gpm
10:30	125'	22 Seconds		2.7 gpm
10:45	125'	22 Seconds		2.7 gpm
11:00	125'	22 Seconds		2.7 gpm
11:15	125'	22 Seconds		2.7 gpm
11:30	125'	22 Seconds		2.7 gpm
11:45	125'	22 Seconds		2.7 gpm
12:00	125'	22 Seconds		2.7 gpm
12:15	125'	22 Seconds		2.7 gpm
12:30	125'	22 Seconds		2.7 gpm
12:45	125'	22 Seconds		2.7 gpm
1:00	125'	22 Seconds		2.7 gpm
1:15	125'	22 Seconds		2.7 gpm
1:30	125'	22 Seconds		2.7 gpm
1:45	125'	22 Seconds		2.7 gpm
2:00	125'	22 Seconds		2.7 gpm



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: Toll Brothers Telephone #: \_\_\_\_\_  
 Subdivision: Kingsley Woods Lot #: 2 Well Tag #: HO - 18 - 0179  
 Site Address: 10630 Reynolds Ct  
Ellicott City, MD 21042

**Submersible Pump Data**

Make: Goulds  
 Model #: 4HS05422  
 Pump Capacity: 7  
 Well Yield: 2.7  
 Depth of well encountered at time of pump installation: 300 (feet)

**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

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

**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 11/22/24

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

Date Insp. Requested: 11/22/2024 Date Insp. Approved: 11/22/2024 Inspector: \_\_\_\_\_  
 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

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

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

## **INTERIM CERTIFICATE OF POTABILITY**

**Expiration Date – DECEMBER 28, 2024**

June 28, 2024

Homeowner  
10630 Reynolds Court  
Ellicott City, MD 21042

**RE: Kingsley Woods, Lot 2  
10630 Reynolds Ct.  
Building Permit: B23002125  
Well Permit: HO-18-0179**

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 **6/20/2024**. Final approval of the well line connection to the dwelling was granted on **1/22/2024**. The well construction was completed on **10/29/2020**. Water samples were collected on **4/4/2024**.

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 **10/29/2020**. Results showed a Gross Alpha level of **12.9 ± 2.7 pCi/L** and **Gross Beta** level of **6.7 ± 2.1 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-18-0179. 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.**



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

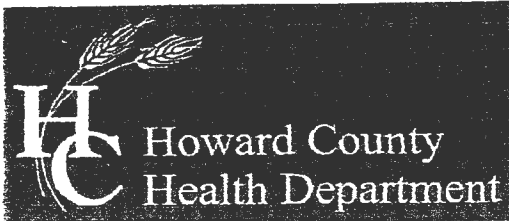
Please contact (410) 313-1773 to schedule a final water sample appointment or contact a certified water quality laboratory to schedule a water sample. A list of laboratories certified by the state of Maryland may be found at the following website: <http://www.mde.state.md.us/assets/document/WSP-Labs-2010apr16.pdf>

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, LEHS, R.S./REHS, Supervisor  
Groundwater Management Section  
Well & Septic Program

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



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:

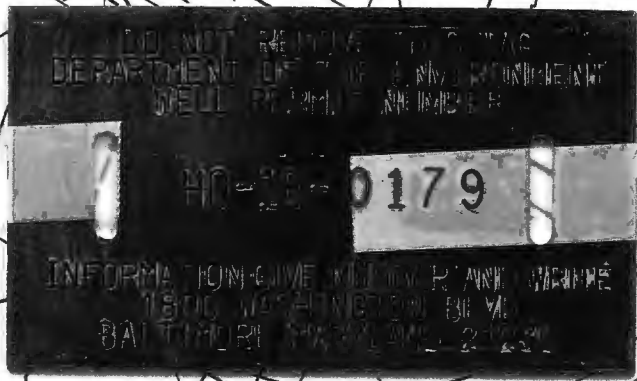
Well Site Location:

Kings Forest      Lot# 1 thru  
Subdivision/Property Name      Lot #      Reynolds Ct  
Road Name

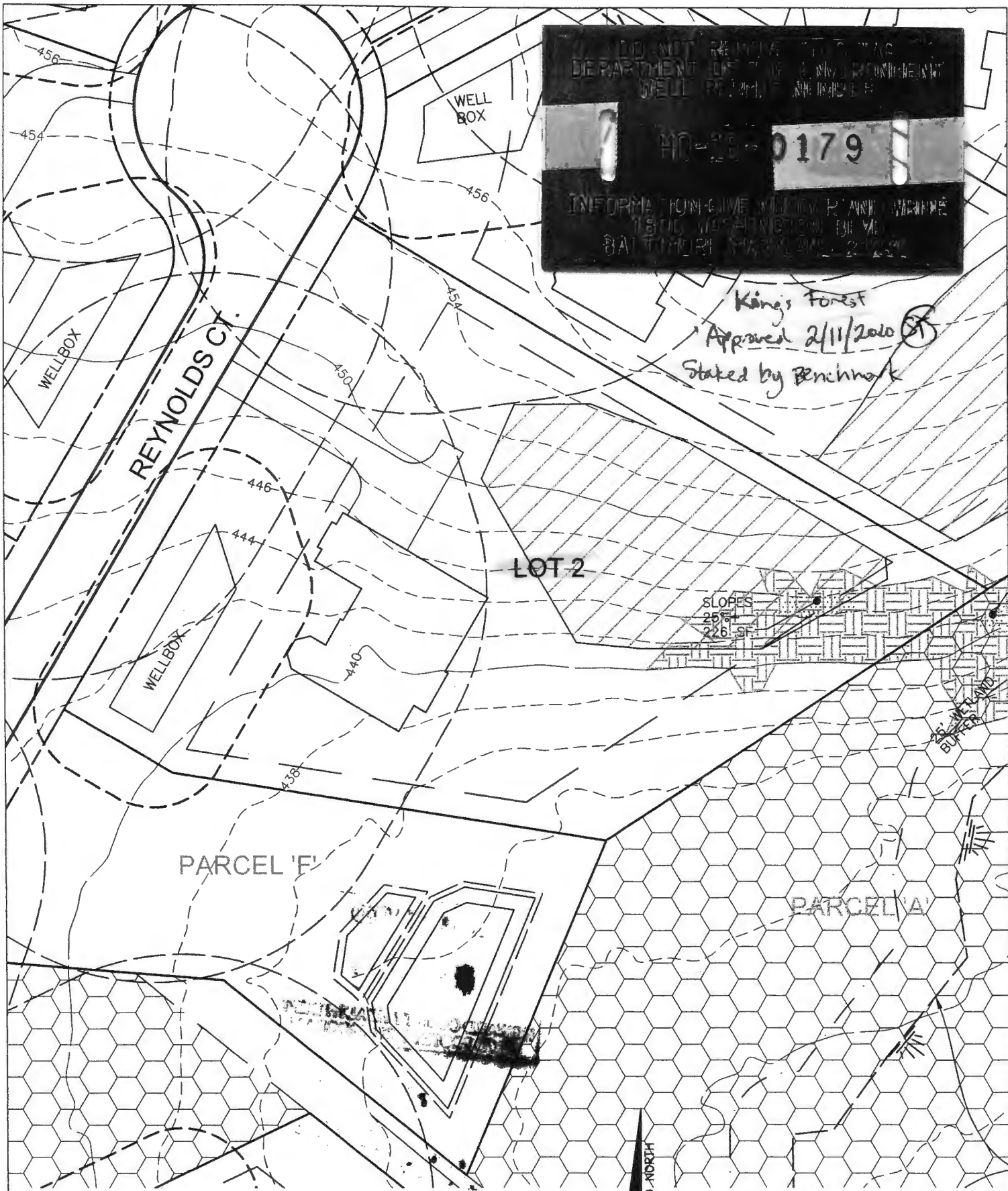
The well site has been staked by Benchmark  
(professional land surveyor or company employing professional land surveyors)  
on Oct 22, 2019 (date) and does not require a site inspection.

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.



Kings Forest  
Approved 2/11/2010  
Staked by Benchmark



**BENCHMARK**

ENGINEERS & LAND SURVEYORS & PLANNERS  
**ENGINEERING, INC.**

8480 BALTIMORE NATIONAL PIKE & SUITE 315 A ELICOTT CITY, MARYLAND 21043  
(P) 410-488-8105 (F) 410-488-8844

WWW.BE-CVLENGINEERING.COM



(IN FEET)  
1 inch = 50 ft.

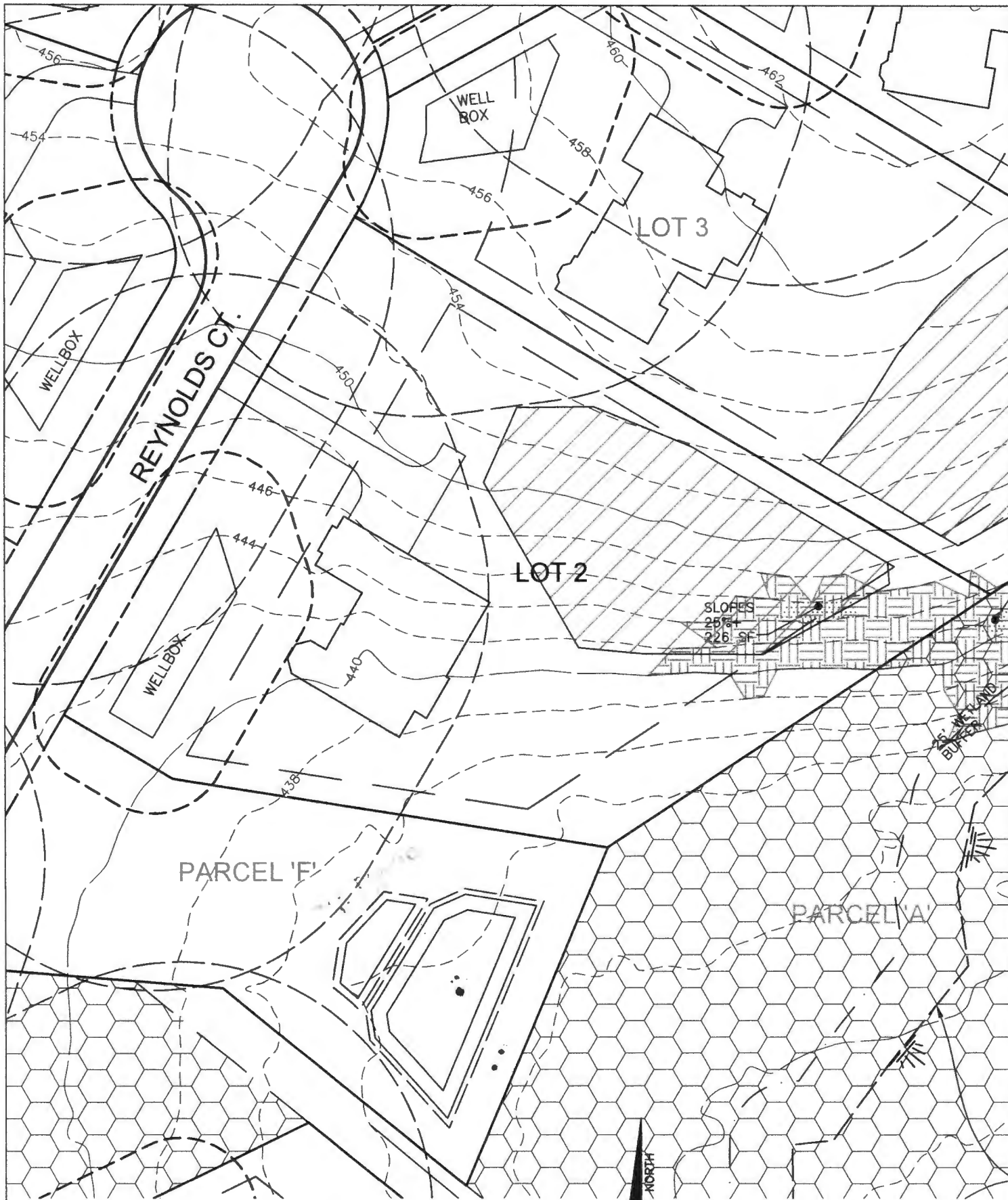


**KINGS FOREST**  
**WELL EXHIBIT**

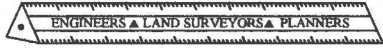
**LOT 2**

DATE: **OCTOBER, 2019**

SCALE: **1" = 50'**



**BENCHMARK**



**ENGINEERING, INC.**

8480 BALTIMORE NATIONAL PIKE & SUITE 315 A ELICOTT CITY, MARYLAND 21043  
 (P) 410-485-8105 (F) 410-485-8844

WWW.BEI-CIVILENGINEERING.COM



(IN FEET)  
 1 inch = 50 ft.

**KINGS FOREST  
 WELL EXHIBIT**

**LOT 2**

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 *ST 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 26<sup>th</sup>, 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.**

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

January 11, 2021

**Toll Brothers**  
7164 Columbia Gateway Drive  
Columbia, Maryland 21045

**RE: Kings Forest Lot 2**  
**Pudding Lane**  
**Well Tag: HO – 18 – 0179**

To Who it May Concern:

A sample was collected during a yield test on October 29, 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  $12.9 \pm 2.7$  picocuries/liter (pCi/L), while the **Gross Beta** level was  $6.7 \pm 2.1$  pCi/L. With the Margin of Error, the **Gross Alpha** result is just above 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 **may not meet** EPA regulatory standards. Additional testing **for these parameters** along with **Radium 226/228** will be required to secure the future Use & Occupancy. Alternatively, treatment (either a softener system or point of use reverse osmosis (R/O)) can be installed and post-treatment sampling for **long-term Gross Alpha, Gross Beta and Radium 226/228**. 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

SEND REPORT TO:

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. \_\_\_\_\_

LABORATORY ANALYSIS REQUEST FORM

Plant/Site Name: RODDING LANE KINGS FOREST County: HOWARD

Sample Source: HO-18-0197-0 LOT 2 Location: \_\_\_\_\_

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

Radon-222 Bottle A HOJC0179RA Radon-222 Field Blank Bottle A \_\_\_\_\_  
Bottle B \_\_\_\_\_ Bottle B \_\_\_\_\_

County: 113 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: H F Federal Project: \_\_\_\_\_

Collector: CAROL G COLEMAN Telephone No.: 410 313 2643

Date Collected: 10/29/2020 Time Collected: 10:30 a.m. \_\_\_\_\_ p.m.

Field pH: 6.0 Field Chlorine: NEG

Nitric Acid Preserved: Yes  No  Iced: Yes  No

Remarks: 1st field

TEST	EPA Code	Lab No.	Method No.	Results (pCi/L)	Date Analyzed	Analyst	Date Reported
<input checked="" type="checkbox"/> Gross Alpha	4000	572	1271-21	12/1/20	11/2/20	TW	11/4/20
<input checked="" type="checkbox"/> Gross Beta	4100	572	1271-21	12/1/20	11/2/20	TW	11/4/20
<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: 10/30/20 Received By: \_\_\_\_\_  
Data Release Signature: \_\_\_\_\_ Date: \_\_\_\_\_

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:

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.

LABORATORY ANALYSIS REQUEST FORM

Plant/Site Name: PUDDING LANE KINGS FOREST County: HOWARD

Sample Source: H0-18-0197 LOT 2 Location: \_\_\_\_\_

Radon-222 Bottle A \_\_\_\_\_ Bottle B \_\_\_\_\_  
Radon-222 Field Blank \_\_\_\_\_  
Bottle A \_\_\_\_\_  
Bottle B \_\_\_\_\_

County: 113 Plant No. \_\_\_\_\_

CHECK (one per Box)

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

Submitters Code: 4/1/1 Federal Project:

Collector: \_\_\_\_\_ Telephone No.: \_\_\_\_\_

Date Collected: \_\_\_\_\_ Time Collected: \_\_\_\_\_ a.m. \_\_\_\_\_ p.m.

Field pH: \_\_\_\_\_ Field Chlorine: NEG

Nitric Acid Preserved: Yes  No  Iced: Yes  No

Remarks: \_\_\_\_\_

TEST	EPA Code	Lab No.	Method No.	Results (pCi/L)	Date Analyzed	Analyst	Date Reported
<input checked="" type="checkbox"/> Gross Alpha	4000	811	4000.1	220	11/21/20	TW	11/24/20
<input checked="" type="checkbox"/> Gross Beta	4100	811	4100.0	410	11/21/20	TW	11/24/20
<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: 10-30-20 Received By: \_\_\_\_\_  
Data Release Signature: \_\_\_\_\_ Date: \_\_\_\_\_

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

FORM REVISED 05/15  
DHMH 4540 05/17

PROGRAM COPY

SAMPLE TESTED AS RECEIVED



## 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

### Sodium, Chloride and Total Dissolved Solids water sampling results

February 2, 2021

Toll Brothers  
7164 Columbia Gateway Dr, Suite 230  
Columbia, MD 21046

Re: Kings Forest Lot 2  
Reynolds Ct  
Well Permit: HO-18-0179

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 8.06 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 96 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

Send Report To:

State of Maryland  
DHMH - Laboratories Administration

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

Division of Environmental Sciences  
**TRACE METALS LABORATORY**  
1770 Ashland Avenue  
Baltimore, Maryland 21205

  
**E21001212001**  
Received: 10/30/2020  
Metals He/Co0179NA

**LABORATORY ANALYSIS REQUEST**

Do not write above this line

Please Print

Sample ID No: 0179 ~~HOCC077NA~~ Site Name: ZETGLER KINGS FOREST LT 2 County: HOWARD

Sample Source: RODDING LANE ELLICOTT Collector: CADAMUC  
Street Town or City Name

Date Collected: 10/29/2020 Time Collected: 1030 a.m./p.m. Phone #: 410.513.2648

Sample Preserved By:  Field  ESRL  WMRL  Central Lab  
Preservative Used:  HNO<sub>3</sub> + 2.0 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: Field

✓	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>SAS</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: E21001212    Date Coll.: 10/29/2020    Date Received: 10/30/2020    Submitted By: Cabahug

Field ID: He/Co0179NA  
Lab No.: E21001212001

<u>Method</u>	<u>Element</u>	<u>Result</u>	<u>Units</u>	<u>Date Analyzed</u>
EPA 200.7	Sodium	8.06	ppm	11/10/2020

### Comments:

Approved by: *Wendy A. Treisman*

Approval date: 11/16/2020

\*\*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.

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.



### Partial List of Submitter Codes

Code	Description	Code	Description
1-30	County Codes	53	Chesapeake Bay & Special Projects
41	Individual Septics & Wells Program	59	Standards & Certification Program
42	Public Drinking Water	63	Division of Food Control
43	Recreational Sanitation & Migrant Camps, MDH	64	Engineering & Maintenance, MDH
44	STP Inspection Division	65	Division of Community Services
45	Hazardous & Solid Waste Admin. (Landfill Samples)	66	Office of Attorney General
46	Pre-Treatment Enforcement Division	67	Dept. of General Services
48	Licensing and Certification, MDH	77	E.P.A.
52	Water Quality Monitoring Program	91	State Highway Administration
		96	L.U.S.T./U.S.T./CERCLA
		99	Unknown

### Codes for Federally Funded Projects (leave box blank if not federal)

Code	Description	Code	Description
S	Safe Drinking Water Act (SDWA)	N	National Pollution Discharge Elimination System (NPDES)
R	Resource Conservation and Recovery Act (RCRA)	M	Miscellaneous (Other)

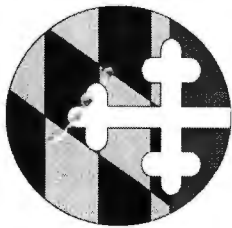
### Partial List of Data Category Codes

Code	Description	Code	Description
1F	Sediment Samples	2F	Innovative Disposal
2A	Industrial Effluents/Compliance	5A	Solid Waste/Landfills
2B	Industrial Grab	5B	Kidney Dialysis
2C	Municipal Compliance	5C	Commercial Bottled Waters
2D	Municipal Grab	5D	Misc. Wastewaters
4A	MCL Surveys	5E	Misc. River/Stream
4B	Routine Monitoring & Other Communities	5F	Misc. Drinking Water
4D	Potable - County Community	5G	Swimming Pools
4E	Potable - Non Community	5H	Marine or Estuarine Natural Bathing Areas
4F	Potable - Private Wells		
4G	Real Estate Trans./Charge Samples		

### Partial List of Error Codes

Code	Description	Code	Description
A	Laboratory Accident	J	Wrong sample type
C	Mechanical/Materials failure	RR	No sample received
D	Insufficient Sample	X	Improper preservation
E	Sample past holding time	LL	Mislabeled sample

NOV 16 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 NoE21001213    Date Coll. 10/29/2020    Date Received: 10/30/2020    Submitted By: J. Cabahug

Field ID: HOJC0179TD  
 Lab No.: E21001213001

<u>Analyte</u>	<u>Method</u>	<u>Result</u>	<u>Units</u>	<u>Date Analyzed</u>
Chloride	SM 4500-Cl E	<10	mg/L	11/10/2020
Total Dissolved Solids	SM 2540C	96	mg/L	11/05/2020

**Comments:**

Approved by: 	Approval date: <u>11/13/2020</u>
--	----------------------------------

\*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.

# FOUNTAIN VALLEY ANALYTICAL LABORATORY, INC.

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

## REPORT OF ANALYSIS

Laboratory ID #: 165510 Account #: 1933  
Reference: Kingsley Woods Lot 2 Client: Fogle's Well Pump & Treatment  
Location: 10630 Reynolds Court Requested By: Dave Fogle  
Ellicott City, MD 21042 Source: Well Water  
Date/ Time Collected: 4/4/2024 0745 Site: Pressure Tank  
Date/Time Rec'd: 4/4/2024 1500 Treatment: None  
Chlorine ppm: Free: ND Total: ND pH: 5.8  
Collected By: J. Evans 0309JE Well #: HO-18-0179

PARAMETERS	RESULTS	UNITS	REFERENCE	METHOD	DATE/TIME/ANALYST
Bacteria, Coliform, Total, MPN	<1.0	MPN/ 100 ml	<1.0	SM20 9223B	4/5/2024 / 1000 / KDR
Bacteria, E. coli, MPN	<1.0	MPN/ 100 ml	<1.0	SM20 9223B	4/5/2024 / 1000 / KDR
Nitrate.	1.17	mg/L (as N)	10	EPA 300.0	4/4/2024 / 1824 / CS/KR
Turbidity	0.56	NTU	<10	SM2130B	4/4/2024 / 1520 / CJM
Sand	ND	mg/L	5	Visual/Gravimetric	4/5/2024 / 0845 / KDR
Iron	0.26	mg/L	0.3*	Hach 8146	4/4/2024 / 1510 / CJM

### NOTES:

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

Reason for Test : Use & Occupancy

Building Permit # : B23002125

Date Reported: 4/5/2024



Yonatan Bekele -MDH- <yonatan.bekele@maryland.gov>

---

**Re: Request form**

1 message

---

Yonatan Bekele -MDH- <yonatan.bekele@maryland.gov>

Mon, Mar 4, 2024 at 4:05 PM

To: "Cook, Kathleen" <kcook@howardcountymd.gov>

Cc: Wuernisha Tuerxun -MDH- <wuernisha.tuerxun@maryland.gov>

Okay, I'll log them in as one field blank and two samples that require gross alpha/beta analysis.

Thanks,

--

**Yonatan Bekele**

Lead Scientist

Radiation Laboratory

Division of Environmental Sciences

Maryland Department of Health - Laboratories Administration

1770 Ashland Avenue

Baltimore, MD 21205

Office: 443-681-3766

On Mon, Mar 4, 2024 at 3:58 PM Cook, Kathleen <kcook@howardcountymd.gov> wrote:

Hello – the sampler confirmed that we just need gross alpha/gross beta. Thanks,

Kathleen

---

**From:** Yonatan Bekele -MDH- <yonatan.bekele@maryland.gov>

**Sent:** Monday, March 4, 2024 3:01 PM

**To:** Cook, Kathleen <kcook@howardcountymd.gov>

**Cc:** Wuernisha Tuerxun -MDH- <wuernisha.tuerxun@maryland.gov>

**Subject:** Request form

[Note: This email originated from outside of the organization. Please only click on links or attachments if you know the sender.]

Good afternoon Kathleen,

We received three samples from Howard County this afternoon. I noticed that the request forms may not have been filled out correctly. Could you please review the attached documents and provide clarification before we enter them into our system?

Thanks

--

**Yonatan Bekele**

Lead Scientist

Radiation Laboratory

Division of Environmental Sciences

Maryland Department of Health - Laboratories Administration

1770 Ashland Avenue

Baltimore, MD 21205

Office: 443-681-3766

NOTICE: This message and the accompanying documents are intended only for the use of the individual or entity to which they are addressed and may contain information that is privileged, or exempt from disclosure under applicable law. If the reader of this email is not the intended recipient, you are hereby notified that you are strictly prohibited from reading, disseminating, distributing, or copying this communication. If you have received this email in error, please notify the sender immediately and destroy the original transmission.