		WELL COMPLETION REPORT	45 DAYS AFTER WELL IS COMPLETED.
THIS NUMBER IS TO BE PUNCHED N COLS. 3-6 ON ALL CARDS)		FILL IN THIS FORM COMPLETELY PLEASE TYPE	COUNTY NUMBER
DATE WELL DATE Received MM DD MM 8 13 15	COMPLETED 70- 20' 20	Approved 50 Depth of Well 2(20) 2020 22 325 26 (TO NEAREST FOOT)	PERMIT NO. FROM "PERMIT TO DRILL WELL" 28 29 30 31 32 33 34 35 36 3
OWNER TOIL B	other:		
WELL SITE ADDRESS lest name	ding la	TOWN	120
SUBDIVISION	74-	SECTION	LOT LOT
Not required for driven wells	WEL	HAS BEEN GROUTED e Appropriate Box)	N C 3
STATE THE KIND OF FORMATIONS PENETRATED COLOR, DEPTH, THICKNESS AND IF WATER BE	THEIR THEIR	OF GROUTING MATERIAL (Circle one)	PUMPING TEST
DESCRIPTION (Use FEET	check CEM	TATES (ET	C HOURS PUMPED (nearest hour)
additional sheets if needed) FROM TO		OF BAGS 46 NO. OF POUNDS 35	PUMPING RATE (gal. per min.)
C/ay 010		ONS OF WATER	METHOD USED TO
		TH OF GROUT SEAL (to nearest foot)	MEASURE PUMPING RATE
1011 1035	from		WATER LEVEL (distance from land surface)
Dott brown		(enter 0 if from surface) CASING RECORD	BEFORE PUMPING 36 ft.
1 35 85	/	types	0/10/20
graphimestene 1	a	propriate STEEL CONC	
1 85 86	1	code below PL 0	
Fractive		PLASTIC OTH	A air P piston T turbine
1 1 section 86 310		MAIN Nominal diameter Total depth CASING top (main) casing of main casin	ng 2/ 2/ other
Orey Lines	1	TYPE (nearest inch)! (nearest foot	t) C centrifugal R rotary O (describelow)
Exactore 310 311		80 61 63 64 66	70 J jet S submersible
Graylinestone 311 325	E	OTHER CASING (if used)	J jet S submersible
Granlinestad	Î	diameter depth (feet)	
0,40	C _		DRILLER INSTALLED PUMP YES NO
	ŝ		(CIRCLE) (YES or NO)
	G -		IF DRILLER INSTALLS PUMP, THIS SECTION
storage: 418.5 gal	S	reen type SCREEN RECORD	MUST BE COMPLETED FOR ALL WELLS. TYPE OF PUMP INSTALLED
Strag		open hole ST BR H	DI 105 (10 C 10 D 0 T 0)
		INSERT STEEL BRASS OP	CAPACITY:
		code below BRONZE HO	GALLONS PER MINUTE
		PLASTIC OT	
	c	DEPTH (nearest ft.)	PUMP COLUMN LENGTH
NUMBER OF UNSUCCESSFUL WELLS:	7 7	In 119 200	(nearest ft.)
WELL HYDROFRACTURED yes	(no) E 1-	HO 41 325	CASING HEIGHT (circle appropriate box
WELL HYDROFRACTURED Y	N Å		+ above and enter casing height)
CIRCLE APPROPRIATE LETTER A WELL WAS ABANDONED AND SEALED	H 2-	23 24 26 30 32	36 LAND SURFACE
WHEN THIS WELL WAS COMPLETED	C 3		below (neares
P TEST WELL CONVERTED TO PRODUCTION	N E	38 39 41 45 47	51 49 50 51
WELL I HEREBY CERTIFY THAT THIS WELL HAS BEEN CONST	E SI	OT SIZE 1 2 3	LATITUDE 3 9. 254721
ACCORDANCE WITH COMAR 26.04.04 "WELL CONSTRUCT IN CONFORMANCE WITH ALL CONDITIONS STATED IN 1	TION" AND D	AMETER (NEAREST SCREEN INCH)	LONGITUDE 7 6. 881320
CAPTIONED PERMIT, AND THAT THE INFORMATION P HEREIN IS ACCURATE AND COMPLETE TO THE BE KNOWLEDGE.	RESENTED	56 60	(DEFAULT COORD. WGS 84)
1 1 22	4	from to	Pursuant to §10-624 of the State Govt. Article of the Maryand Code personal info. requested on
DRILLERS LIC. NO. 1 M D	IF WE	L PACK L. DRILLED	this form is used in processing this form pursuant to COMAR 26.04.04. Failure to provide the info.
DRILLERS SIGNATURE	WAS I	LOWING WELL T F IN BOX 68 68	may result in this form not being processed. You
(MUST MATCH SIGNATURE ON APPLICATION)	MDE	USE ONLY TO BE FILLED IN BY DRILLER)	have the right to inspect, amend, or correct this form. The Maryland Department of the
LIC. NO.1 D	_	T (E.R.O.S.) W Q	Environment is subject to the Maryland Public Information Act. This form may be made
	70	72	available on the Internet via MDE's website and is subject to inspection or copying, in whole or in
	109	74 75	
SITE SUPERVISOR (sign. of driller or journey responsible for sitework if different from permit		SCOPE LOG /4 /5	agencies, if not protected by federal or state law.

SEQUENCE NO	CTATE OF	MADY AND	STATE PERMIT NUMBER
B 1 34450 (MDE USE ONLY)	APPLICATION FOR PE	MARYLAND	116 18 0159
1 2 3 6	pleas		70 70
Date Received (APA)	JUL PIN		LOCATION OF WELL
OWNER INFOR	RMATION	B 3	EGGATION OF WELL
8 MM DD YY 13	IMATION	8 COUNTY	21
TOU Brothers		Vince	From
15 Last Name Owner	First Name 34	23 SUBDIVISION	10(0)
36 Street or RFD	way DR.	SECTION L	1011301
Silver of APD	NU	SECTION 44 46	48 50
57 Town 70 State	72 Zip 76	Chicott	CILL
DRILLER INFORMATION	3	52 NEAREST TOWN	71
Andrew Houseman	MSD2241		· · · · · · · · · · · · · · · · · · ·
Driller's Name 7	6 License No. 81	B 4	D. Idaalaa
L tooles Well Drilling	auc	SOURCES OF DRILLING WATER	rucally lane
Firm Name	71 211 200	1. Well Worker	11 STREET ADDRESS 30
Address	Dre Jud 217	3.	ON WHICH SIDE OF ROAD
Address	11-1-19		(CIRCLE APPROPRIATE BOX)
Signature	Date		34 2 5 37 SOUTH
B 2 WELL INFORMATION	K		DISTANCE FROM ROAD
1 2 APPROX. PUMPING RATE — (GAL. PER MIN.)	8 12		ENTER FT OR MI 38 39
AVERAGE DAILY QUANTITY NEEDED	500		TAX MAP: BLK: 23 PARCEL 48
(GAL. PER DAY) 14	20		
USE FOR WATER (CIRCLE AF	11		O BE FILLED IN BY DRILLER H DEPARTMENT APPROVAL
DOMESTIC POTABLE SUPPLY & RESIDE IRRIGATION	ENTIAL	1)	THE PARTITION AT THOUSE
F FARMING (LIVESTOCK WATERING & AG	RICULTURAL	Howard	13
IRRIGATION)		COUNTY NAME	COUNTY NO.
22 I INDUSTRIAL, COMMERCIAL, DEWATER	ING	STATE SIGNATURE	INSERT S
P PUBLIC WATER SUPPLY WELL T TEST, OBSERVATION, MONITORING		DATE ISSUED	Aug Tho N 01/14/21
T TEST, OBSERVATION, MONITORING O OPEN LOOP GEOTHERMAL		43 MM DD YY 48	CO SIGNATURE EXP. DATE
C CLOSED LOOP GEOTHERMAL			1 000
		DON: 1/27/2020 (5T)	DOG: 2/4/2000 DOT: 2/4/2000
200			SED LOCATION OF WELL ON LOT
APPROXIMATE DEPTH OF WELL 24	FEET 28	DOADO ANDIODIANI	UCTURES SUCH AS BUILDINGS, SEPTIC SYSTEM, DMARKS AND INDICATE NOT LESS THAN TWO
APPROXIMATE DIAMETER OF WELL	6 NEAREST	DISTAN	NCE MEASUREMENTS TO WELL
ATTIONIMATE DIAMETER OF WELL	INCH	IN	
METHOD OF DRILLING	(circle one)	COR HELITANIES	TVIO O GRAWOH
BORED (or Augered) JETTED	Jetted & DRIVEN	11/14	POOL ROTECT
AIR-PERcussion	ROTARY (Hydraulic Rotary)	0 10/ 10/	
CABLE REVerse-ROTary	DRive-POINT	10/52/0	
other		1 60 35	1
REPLACEMENT OR DEEPL (CIRCLE APPROPRIATE		1 287	1605
N THIS WELL WILL NOT REPLACE AN EXIST	20 000 000 000 000 000 000 000 000 000	7	
THIS WELL WILL REPLACE A WELL THAT			
ABANDONED AND SEALED		1/27/20	1700
39 S THIS WELL WILL REPLACE A WELL THAT AS A STANDBY-CONTACT LOCAL APPROV		construct 42'	0 11 18
FOR POLICY ON STANDBY WELLS		1/29/20	1 Seoth
D THIS WELL WILL DEEPEN AN EXISTING W		225' to	tal ()
PERMIT NUMBER OF WELL TO BE REPLACED OF (IF AVAILABLE) 41	PR DEEPENED 52	N	
Not to be filled in his driller (NDE CD C		A (1) (1)	
Not to be filled in by driller (MDE OR C	13 13 N FEE	12/4/20 - radi	um sample taken ; pump @ 300; drawdown to 265; vater level @ 36' (RIR)
APPROP. PERMIT NUMBER H 0 20	18G0 04	Haem	oumo@ 300, drawdown to 265
- 3 /\x	18 6159	Static II	wher levole 36' RIR
PERMIT No. 70 71 7	<u> </u>	Signe	
SPECIAL CONDITIONS RADIUM SAMPI	LES REQUIRED		₩

Date: February 4, 2020

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-18-0159

Location of Property: Pudding Lane Ellicott City, Md

Subdivision: Kings Forest Lot#: 30

Well Driller/Tech: Fogles Andrew Houseman MSD224 Owner/Buyer: Toll Brothers

Depth of Well: 325' Casing: 49' of 6" Steel Casing Pump Depth: 300'

Distance of measuring point (M.P.) above ground: 2'

Static water level (S.W.L.) below M.P.:___36'__

High rate pumping -reservoir Drawdown

Time pump started: _7:00_ Pumping rate: _15

Total time__120 Mins__to reach pumping water level _266_ft. below M.P.

Recovery pump test data - observations to be recorded every 15 minutes

TIME (in 15 minute intervals)	WATER LEVEL Below M.P.	PUMPING RATE Time to fill 1 gallon bucket	FLOW METER READING (if used)	CALCULATED FLOW (gallons per minute)
7:00	36'	4 Seconds		15 gpm
7:15	71'	4 Seconds		15 gpm
7:30	104'	4 Seconds		15 gpm
7:45	135'	6 Seconds		10 gpm
8:00	168'	6 Seconds		10 gpm
8:15	194'	6 Seconds		10 gpm
8:30	220'	7 Seconds		8.5 gpm
8:45	251'	7 Seconds		8 gpm
9:00	266'	15 Seconds		4 gpm
9:15	265'	15 Seconds		4 gpm
9:30	265'	15 Seconds		4 gpm
9:45	265'	15 Seconds		4 gpm
10:00	265'	15 Seconds		4 gpm
10:15	265'	15 Seconds		4 gpm
10:30	265'	15 Seconds		4 gpm
10:45	265'	15 Seconds		4 gpm
11:00	265'	15 Seconds		4 gpm
11:15	265'	15 Seconds		4 gpm
11:30	265'	15 Seconds		4 gpm
11:45	265'	15 Seconds		4 gpm
12:00	265'	15 Seconds		4 gpm



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

INTERIM CERTIFICATE OF POTABILITY

Expiration Date – MAY 17, 2023

November 17, 2022

Homeowner 10525 Pudding Lane Ellicott City, MD 21042

RE: King's Forest, Lot 30

10525 Pudding Lane

Building Permit: B22000468 Well Permit: HO-18-0159

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 11/9/2022. Final approval of the well line connection to the dwelling was granted on 8/25/2022. The well construction was completed on 2/4/2020. Water samples were collected on 10/12/2022, 10/21/2022.

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.

Radium samples were also collected on 7/12/2022. Results showed a Radium 226 level of 0.7 pCi/L and a Radium 228 level of 1.2 pCi/L. This meets the maximum contaminant level (MCL) for combined Radium 226 and 228 of 5.0 pCi/L.

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-18-0159. 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.

Website: www.hchealth.org Facebook: www.facebook.com/hocohealth Twitter: @HoCoHealth



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

ha Kol

Well & Septic Program

cc: Howard County Dept. of Inspections, Licenses, and Permits

Community Hygiene Program

File



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

March 26, 2020

Toll Brothers 7164 Columbia Gateway Drive Columbia, Maryland 21045

> RE: Kings Forest Lot 30 Pudding Lane Well Tag: HO – 18 – 0159

To Who it May Concern:

A sample was collected during a yield test on February 4, 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 27.8 ± 3.6 picocuries/liter (pCi/L), while the Gross Beta level was 15.1 ± 2.5 pCi/L. The Gross Alpha result was 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, your "untreated" well water supply **does not meet** EPA regulatory standards. Given these initial readings, some additional testing to further evaluate long-term **Gross Alpha**, **Gross Beta** and **Radium 226/228** will be required to secure the future Use & Occupancy. Treatment (a softener system or a point of use reverse osmosis (R/O)) can be considered; if installed then post-treatment levels to ensure the effectiveness of the installed treatment will be needed. 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

Website: www.hchealth.org Facebook: www.facebook.com/hocohealth Twitter: @HoCoHealth

SEND REPORT TO: Bert Nixon

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

FORM REVISED 05/15

DHMH 4540 05/17

State of Maryland DHMH - Laboratories Administration Division of Environmental Sciences RADIATION LABORATORY

1770 Ashland Avenue

Baltimore, Maryland 21205

LABORATORY ANALYSIS REQUEST FORM

HOWARD COUNTY HEALTH DEPT. COMMUNITY HYGIENE PROGRAM

	Fores		30		•	County:	1.1	oward	
Sample Source:	@ 410	1d test/H	C 18-0	159	L	ocation		10 01-	59
Radon-222 Bottle A Bottle B			Ą	Radon-22	2 Field Blank			/ell no., lab sink, sar e A e B	
County \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\			F	lant No.					
CHECK (one per Box)									
Type Drinking Water Landfill Stream Other	1000000			Source	Point of Collect (Raw) ution (treated)		9	Testin Emergency Routine Recheck Special	
Submitters Code:				Fed	deral Project:				
Collector:	4				lephone No.:			0.1	
1	20 post+				ne Collected:		930	13-1781	
Date Collected:	H 20					•	750	a.m	p.m.
Field pH:				Fie	ld Chlorine:	-	* 3		
Nitric Acid Preserved:	Yes	× No		Ice	d:	Yes [No	X	
Remarks:	e tale	4004	016						
1									
TECT.	EPA	T.L.N.	M-41 J	NI -	D lt (C!	TI S	Data Amalamad	A 14	Date
▼ TEST	Code	Lab No.	Method		Results (pCi		Date Analyzed	Analyst	Reported
Gross Alpha	Code 4000	1706	EPA 9	000	27.8+3	6.	2/7/20	Analyst	
Gross Alpha Gross Beta	Code 4000 4100	30000000000000000000000000000000000000		000		6.	2/7/20	Analyst RH RH	Reported
Gross Alpha Gross Beta Radium-226	4000 4100 4020	1706	EPA 9	000	27.8+3	6.	2/7/20	Analyst RH RH	Reported
Gross Alpha Gross Beta Radium-226 Radium-228	Code 4000 4100 4020 4030	1706	EPA 9	000	27.8+3	6.	2/7/20	Analyst RH RH	Reported
Gross Alpha Gross Beta Radium-226 Radium-228 Total Uranium	Code 4000 4100 4020 4030 4006	1706	EPA 9	000	27.8+3	6.	2/7/20	Analyst RH RH	Reported
Gross Alpha Radium-226 Radium-228 Total Uranium Radon-222 (Bottle A)	Code 4000 4100 4020 4030 4006 4004	1706	EPA 9	000	27.8+3	6.	2/7/20	Analyst RH RH	Reported
Gross Alpha Gross Beta Radium-226 Radium-228 Total Uranium Radon-222 (Bottle A) Radon-222 (Bottle B)	Code 4000 4100 4020 4030 4006 4004 4004	1706	EPA 9	000	27.8+3	6.	2/7/20	Analyst RH RH	Reported
Gross Alpha Gross Beta Radium-226 Radium-228 Total Uranium Radon-222 (Bottle A) Radon Field Blank A	Code 4000 4100 4020 4030 4006 4004 4004 4004	1706	EPA 9	000	27.8+3	6.	2/7/20	Analyst RH RH	Reported
Gross Alpha Gross Beta Radium-226 Radium-228 Total Uranium Radon-222 (Bottle A) Radon Field Blank A Radon Field Blank B	Code 4000 4100 4020 4030 4006 4004 4004	1706	EPA 9	000	27.8+3	6.	2/7/20	Analyst RH RH	Reported
Gross Alpha Gross Beta Radium-226 Radium-228 Total Uranium Radon-222 (Bottle A) Radon Field Blank A Radon Field Blank B Tritium	Code 4000 4100 4020 4030 4006 4004 4004 4004	1706	EPA 9	000	27.8+3	6.	2/7/20	Analyst R.H R.H	Reported
Gross Alpha Gross Beta Radium-226 Radium-228 Total Uranium Radon-222 (Bottle A) Radon Field Blank A Radon Field Blank B	Code 4000 4100 4020 4030 4006 4004 4004 4004	1706	EPA 9	000	27.8+3	6.	2/7/20	Analyst RH R.H	Reported
Gross Alpha Gross Beta Radium-226 Radium-228 Total Uranium Radon-222 (Bottle A) Radon Field Blank A Radon Field Blank B Tritium	Code 4000 4100 4020 4030 4006 4004 4004 4004 4004	1706	EPA 9	∞,0 ∞,0	27.8±3 15.1±2.	6.	2/7/20	RH	Reported
Gross Alpha Gross Beta Radium-226 Radium-228 Total Uranium Radon-222 (Bottle A) Radon Field Blank A Radon Field Blank B Tritium Date Received:	Code 4000 4100 4020 4030 4006 4004 4004 4004 4004	1706	EPA 9	d By:	27.8±3 15.1±2.	5 6	2 7 20 2 7 20 2 7 20 Date:	RH	Reported 2 10 20 2 10 20
Gross Alpha Gross Beta Radium-226 Radium-228 Total Uranium Radon-222 (Bottle A) Radon Field Blank A Radon Field Blank B Tritium Date Received: Data Release Signature:	Code 4000 4100 4020 4030 4006 4004 4004 4004 4004	1706	EPA 9	∞,0 ∞,0	27.8±3 15.1±2.	5 6	2/7/20	RH	Reported 2 10 20 2 10 20
Gross Alpha Gross Beta Radium-226 Radium-228 Total Uranium Radon-222 (Bottle A) Radon Field Blank A Radon Field Blank B Tritium Date Received: Data Release Signature:	Code 4000 4100 4020 4030 4006 4004 4004 4004 4004	1706	EPA 9	d By:	27.8±3 15.1±2.	5 6	2 7 20 2 7 20 2 7 20 Date:	RH RH	Reported 2 10 20 2 10 20
Gross Alpha Gross Beta Radium-226 Radium-228 Total Uranium Radon-222 (Bottle A) Radon Field Blank A Radon Field Blank B Tritium Date Received: Data Release Signature:	Code 4000 4100 4020 4030 4006 4004 4004 4004 4004	1706	EPA 9	d By:	27.8±3 15.1±2.	5 6	2 7 20 2 7 20 2 7 20 Date:	RH RH	Reported 2 10 20 2 10 20
Gross Alpha Gross Beta Radium-226 Radium-228 Total Uranium Radon-222 (Bottle A) Radon Field Blank A Radon Field Blank B Tritium Date Received: Data Release Signature: Lab Sample Intact upon arrival? Sample pH <2.0?	Code 4000 4100 4020 4030 4006 4004 4004 4004 4004	1706	EPA 9	d By:	27.8±3 15.1±2.	5 6	2 7 20 2 7 20 2 7 20 Date:	RH	Reported 2 10 20 2 10 20

PROGRAM COPY

SENDREPORT TO: Bert Nixon

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

Lab No.		
	3.3	

1770 Ashland Avenue Baltimore, Maryland 21205

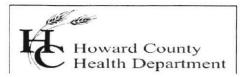
LABORATORY ANALYSIS REQUEST FORM

Plant/Site Name: HC	1D - F	feld Blo	nK	Count	ty: 140	ward	
Sample Source:	illed	Water		Locat		ell no., lab sink, sam	ple site
Radon-222 Bottle A			Radon-2	22 Field Blank		A	
			Kauon-2	.22 Field Blank		В	
Bottle B	1 10000				Donne		
County 13			Plant No). [
CHECK (one per Box)							
Type		Service		Point of Collection		Testing	2
Drinking Water	Comr	nunity	Source	e (Raw)		Emergency	
Landfill	0.000	Community	33-79	bution (treated)	/	Routine	무
Stream	Privat	553	MCL			Recheck	
Other	Other				(C) (C)	Special	
outer	Other						
Submitters Code:			Fe	ederal Project:			
Collector: R R	20 00/4		To	elephone No.:	410 -	313-1-	121
4	11			ime Collected:	0 30	a.m.	70
Date Collected: 2 4	120		1	ime Conected.		a.111.	p.m.
Field pH:			Fi	eld Chlorine:	+	410.90	10 (4
	· · · · · ·					Ī	
Nitric Acid Preserved:	Yes	No		ed: Yes	No L	\times	
Remarks: Jampl	ede	Site		(4.7			
∀ TEST	EPA Code	Lab No.	Method No.	Results (pCi/L)	Date Analyzed	Analyst	Date Reported
Gross Alpha	4000	17(5)	EPA) 902-0	1-2.0	21/2/21	841	2/11/20
Gross Beta	4100	11115	FM1900-L	14.0	211/20	RH	06/11/10
□ Radium-226	4020		6711.				
□ Radium-228	4030						
☐ Total Uranium	4006						
□ Radon-222 (Bottle A)	4004						
Radon-222 (Bottle B)	4004						
☐ Radon Field Blank A	4004						
☐ Radon Field Blank B	4004						
□ Tritium							
						D. C.	
Date Received:	1		Received By:	A 6112.			
Data Release Signature:	4.0		· · · · · · · · · · · · · · · · · · ·	- 1/4/11	Date:		115/50
Data Nelease Signature.							
	_4	J. C.	1.4. 1.4.2~	-			12/20
	Usa Only	V. 6	l Va	s No	N/A		12/20
	Use Only	Vice	Ye	s No	N/A	RECEIVE	ED

FEB 2 0 2020

Received within holding time?

Invoice



Bureau of Environmental Health Attn: Bert Nixon, Director

8930 Stanford Boulevard, Columbia, MD 21045 Phone 410-313-2640 Fax 410-313-2648 www.hchealth.org

BILL 7

Toll Brothers 7164 Columbia Gateway Drive Columbia, Maryland 21046 MAR 5 2020

COLUMBIA, MARYLAND

DATE: MARCH 2, 2020 DATES OF SERVICE: FEBRUARY 18 $\ensuremath{\mathtt{E}}$ 19, 2020

INVOICE #: 2020-006

COMMENTS

Payment due upon receipt. Letter and results will be released upon receipt of payment.

DATE	DESCRIPTION	BALANCE	AMOUNT
2/4/2020	Gross Alpha/Beta testing performed for Kings Forest Lots 19 and 30 HO - 18 - 0148 and HO - 18 - 0159		\$90.00
2/6/2020	Gross Alpha/Beta testing performed for Kings Forest Lot 20 HO - 18 - 0149		\$45.00
			AMOUNT DUE
			\$135.00

Please detach and return with payment.

REMITTANCE	
Invoice #	2020-006
Site Information	Kings Forest Lots 19, 20 & 30
Amount Due	\$135.00

REZZINED 3/13/20 # 67343

Make Checks Payable to: Director of Finance Mail Payments to: Bureau of Env. Health

FOUNTAIN VALLEY ANALYTICAL LABORATORY, INC.

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

REPORT OF ANALYSIS

Laboratory ID #:

155166

Kingsley Woods 30

Client:

Account #:

Fogle's Well Pump & Treatment

Reference: Location:

10525 Pudding Lane Ellicott City, MD 21042

Source:

Requested By: Dave Fogle Well Water

Date/ Time Collected: 10/12/2022

Site:

Pressure Tank

Date/Time Rec'd:

10/12/2022

1328

Treatment:

None

Chlorine ppm:

Free: ND

Total: ND

pH:

6.0

1933

Collected By:

J. Evans

0309JE

1150

Well #:

HO-18-0159

PARAMETERS	RESULTS	UNITS	REFERENCE	METHOD	DATE/TIME/ANALYST
Radium-226	0.7	pCi/L	****	903.0	10/26/2022 / 1140 / MJN
Radium-228	1.2	pCi/L	****	Ra-05	10/25/2022 / 1255 / SN

NOTES:

- ****Radium 226 and Radium 228 combined have a reference of 5 pCi/L 1
- pCi/L = picocuries per liter 2
- Radium 226 Detection Limit: 0.1 pCi/L; Radium 226 Error: +/- 0.2 pCi/L 3
- 4 Radium 228 Detection Limit: 0.8 pCi/L; Radium 228 Error: +/- 0.7 pCi/L
- Results less than or within the reference range are considered satisfactory and within potable water limits at the time of 5 sampling.
- Sub-contracted to Reference Lab #278
- 7 ND:None Detected
- pH and Chlorine level tested in lab (pH tested after recommended holding time) 8
- Sample collected by client, analyzed as received

Reason for Test:

Use & Occupancy

Building Permit #:

22000468

Date Reported:

10/26/2022

FOUNTAIN VALLEY ANALYTICAL LABORATORY, INC.

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

REPORT OF ANALYSIS

Laboratory ID #:

Location:

Chlorine ppm:

Collected By:

155346

Reference:

Kingsley Woods 30

10525 Pudding Lane

Ellicott City, MD 21042

Date/ Time Collected: 10/21/2022 Date/Time Rec'd:

Free: ND

J. Smith

1031 10/21/2022 1254

> Total: ND 2896JS

Account #:

1933

Client: Fogle's Well Pump & Treatment Requested By: Dave Fogle

Source:

Well Water

None

Site:

Pressure Tank

Treatment:

pH: 6.3

Well#:

HO-18-0159

PARAMETERS	RESULTS	UNITS	REFERENCE	METHOD	DATE/TIME/ANALYST
Turbidity	3.00	NTU	<10	SM2130B	10/21/2022 / 1555 / MEW
Iron	0.22	mg/L	0.3*	Hach 8146	10/21/2022 / 1600 / MEW

NOTES:

- *SMCL = Secondary Maximum Contaminant Level 1
- 2 NTU = Nephelometric Turbidity Units
- Results less than or within the reference range are considered satisfactory and within potable water limits at the time of 3 sampling.
- Sample collected by client, analyzed as received 4
- 5 ND:None Detected
- pH and Chlorine level tested in lab (pH tested after recommended holding time) 6
- Visual well check: Sealed, vented cap

Reason for Test:

Use & Occupancy

Building Permit#:

B22000468

Date Reported:

10/24/2022

FOUNTAIN VALLEY ANALYTICAL LABORATORY, INC.

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

REPORT OF ANALYSIS

Laboratory ID #:

155172

Reference:

Kingsley Woods 30

10525 Pudding Lane

Client:

Account #:

Fogle's Well Pump & Treatment

Location:

Ellicott City, MD 21042

Source:

Requested By: Dave Fogle

Date/ Time Collected: 10/12/2022

1150

Site:

Well Water Pressure Tank

Date/Time Rec'd: Chlorine ppm:

10/12/2022 Free: ND

1328 Total: ND

Treatment: pH:

None 5.9

1933

Collected By:

J. Evans

0309JE

Well #:

HO-18-0159

PARAMETERS	RESULTS	UNITS RE	FERENCI	E METHOD	DATE/TIME/ANALYST
Bacteria, Coliform, Total, MPN	<1.0	MPN/ 100 ml	<1.0	SM20 9223B	10/13/2022 / 1030 / TSD
Bacteria, E. coli, MPN	<1.0	MPN/ 100 ml	<1.0	SM20 9223B	10/13/2022 / 1030 / TSD
Nitrate.	< 0.40	mg/L	10	EPA 300.0	10/12/2022 / 1430 / MEW
Turbidity	11.0	NTU	<10	SM2130B	10/12/2022 / 1540 / MEW
Sand	ND	mg/L	5	Visual/Gravimetric	10/13/2022 / 0845 / TSD
Iron	0.96	mg/L	0.3*	Hach 8146	10/12/2022 / 1455 / MEW

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
- Results less than or within the reference range are considered satisfactory and within potable water limits at the time of 5 sampling.
- Sample collected by client, analyzed as received 6
- 7 ND:None Detected
- 8 pH and Chlorine level tested in lab (pH tested after recommended holding time)
- Visual well check: Sealed, vented cap

Reason for Test:

Use & Occupancy

Building Permit #:

22000468

Date Reported:

10/13/2022



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 🕤 1421/19

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

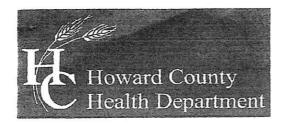
The following comments apply to the above referenced Well Permit Applications. Please read through and complete as needed.

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.

Website: www.hchealth.org Facebook: www.facebook.com/hocohealth Twitter: @HoCoHealth



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:

☐ 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.

