



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

January 26, 2021

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

**RE: Kings Forest Lot 1  
Reynolds Court  
Well Tag: HO - 18 - 0178**

To Who it May Concern:

A sample was collected during a yield test on November 6, 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  $< 2.0 \pm 0.0$  picocuries/liter (pCi/L), while the Gross Beta level was  $< 4.0 \pm 0.0$  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 meets 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

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. 0145-98

**LABORATORY ANALYSIS REQUEST FORM**

Plant/Site Name: KINGS FOREST RADIAC LO County: HOWARD  
 Sample Source: LOT 1 REYNOLDS CT Location: HO-18-0178  
(Well no., lab sink, sample tan, etc.)  
 Radon-222 Bottle A Half 0178RA 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: 4 F Federal Project: \_\_\_\_\_  
 Collector: CAROLIG 001997 + Telephone No.: 410 313 2643  
 Date Collected: 11/06/2020 Time Collected: 10:30 a.m. \_\_\_\_\_ p.m.  
 Field pH: 7.0 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	11314	EPAGADO	12.0	11/10/20	TLW	11/12/20
<input checked="" type="checkbox"/> Gross Beta	4100	11314	EPAGADO	12.15	11/10/20	TLW	11/17/20
<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: 11-9-2020 Received By: [Signature]  
 Data Release Signature: [Signature] Date: 11/13/20

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

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

FORM REVISED 05/15  
 D1824 4510 03/17

CUSTOMER COPY I SAMPLE TESTED AS RECEIVED