

Maura Rossman, M.D., Health Officer

April 12, 2016

Mr. and Mrs. Charles Stevens
7609 Green Dell Lane
Highland, Maryland 20777-9566

**RE: Replacement Well
HO-15-0223
Lot 38 Greenwood Farms
7609 Green Dell Lane
Highland, Maryland 20777**

Dear Mr. and Mrs. Stevens:

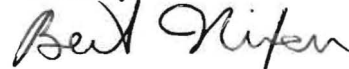
A short-term sample was collected during a yield test on March 25, 2016 and submitted to the Department of Health & Mental Hygiene Laboratories to assess the possible presence of **Gross Alpha** and **Gross Beta** in the future well water supply. **Gross Alpha** and **Gross Beta** measure the total alpha 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 pre-screening revealed a **Gross Alpha** of 5.3 ± 1.7 picocuries/liter (pCi/L), while the **Gross Beta** level was 10.0 ± 2.0 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 value 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 well water supply is **within** applicable EPA regulatory standards. Given these findings, treatment to reduce /remove these naturally occurring radionuclides is not necessary.

A copy of the test report 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

SEND REPORT TO: Bert Nixon
Howard Co. Env. Health
8930 Stanford Blvd.
Columbia, MD 21045

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

05 368200
 Lab No. E001668 292
 LOT 38

CHARLES STEVEN LABORATORY ANALYSIS REQUEST FORM

Plant/Site Name: Greenwood Farm - Lot 38 County: Howard
 Sample Source: 7609 Green Dell Lane Location: H10-15-0223
 Radon-222 Bottle A 150293BB Radon-222 Field Blank HIGHLAND 20777-9566 Bottle A Radium Blank
 Bottle B 150223BB Bottle B _____
 County 13 Plant No. _____

CHECK (one per Box)

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

Submitters Code: _____ Federal Project: _____
 Collector: B Baker Telephone No.: (410) 313-2643
 Date Collected: 3/25/2016 Time Collected: _____ a.m. 2:00 p.m.
 Field pH: _____ Field Chlorine: _____
 Nitric Acid Preserved: Yes No Iced: Yes No
 Remarks: Sample Collected During Yield

| ✓ | TEST | EPA Code | Lab No. | Method No. | Results (pCi/L) | Date Analyzed | Analyst | Date Reported |
|-------------------------------------|----------------------|----------|-------------|-----------------|-------------------|----------------|-----------|---------------|
| <input checked="" type="checkbox"/> | Gross Alpha | 4000 | <u>1668</u> | <u>EPA900.0</u> | <u>5.3 ± 1.7</u> | <u>3/30/16</u> | <u>JT</u> | <u>4/5/16</u> |
| <input checked="" type="checkbox"/> | Gross Beta | 4100 | <u>1668</u> | <u>EPA900.0</u> | <u>10.0 ± 2.0</u> | <u>3/30/16</u> | <u>JT</u> | <u>4/5/16</u> |
| <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: 3/29/16 Received By: In Ji
 Data Release Signature: [Signature] Date: 4/5/16

| 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