

C16708

SEQUENCE NO.  
(MDE USE ONLY)

STATE OF MARYLAND  
WELL COMPLETION REPORT  
FILL IN THIS FORM COMPLETELY  
PLEASE TYPE

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

COUNTY  
NUMBER

1236  
(THIS NUMBER IS TO BE PUNCHED  
IN COLS. 3-6 ON ALL CARDS)

ST/CO USE ONLY  
DATE Received  
MM DO YY  
01 13 11

DATE WELL COMPLETED  
MM DO YY  
08 19 11

Depth of Well  
22 500 26  
(TO NEAREST FOOT)

PERMIT NO.  
FROM "PERMIT TO DRILL WELL"  
10/25/16 SC 40 95 2189

OWNER  
Merkle

STREET OR RFD  
930 Woodstock Road

TOWN  
Woodstock

SUBDIVISION

SECTION

LOT

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	
Overburden	0	5'	
Soft Brown Shale/Dirt	5'	53'	
Gray Rock	53'	500'	
Hit water	226	461	

GROUTING RECORD  
WELL HAS BEEN GROUTED  
(Circle Appropriate Box)

yes no  
X N  
44 44

TYPE OF GROUTING MATERIAL (Circle one)

CEMENT ☒ BENTONITE CLAY ☒

NO. OF BAGS 100 NO. OF POUNDS 1602

GALLONS OF WATER 24

DEPTH OF GROUT SEAL (to nearest foot)

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

CASING RECORD  
casing  
types  
insert  
appropriate  
code  
below

ST CO  
STEEL CONCRETE

PL OT  
PLASTIC OTHER

MAIN CASING TYPE

Nominal diameter  
top (main) casing  
(nearest inch)

Total depth  
of main casing  
(nearest foot)

6 59

OTHER CASING (if used)

diameter depth (feet)

inch from to

SCREEN RECORD  
screen type  
or open hole

insert  
appropriate  
code  
below

ST BR HO  
STEEL BRASS OPEN  
HOLE

PL OT  
PLASTIC OTHER

C2

DEPTH (nearest ft.)

1 2  
140 59 500

1 8 9 11 15 17 21

2 23 24 26 30 32 36

3 38 39 41 45 47 51

SLOT SIZE 1 2 3

DIAMETER  
OF SCREEN (NEAREST  
INCH)

56 60

from to

GRAVEL PACK  
IF WELL DRILLED  
WAS FLOWING WELL  
INSERT P IN BOX 68

58

MDE USE ONLY  
(NOT TO BE FILLED IN BY DRILLER)

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

70 72 74 75 76

TELESCOPE LOG  
CASING INDICATOR OTHER DATA

C3

PUMPING TEST

HOURS PUMPED (nearest hour) 3

PUMPING RATE (gal. per min.) 4.2

METHOD USED TO  
MEASURE PUMPING RATE water bucket

WATER LEVEL (distance from land surface)

BEFORE PUMPING 42 ft.

WHEN PUMPING 220 ft.

TYPE OF PUMP USED (for test)

A air P piston T turbine

C centrifugal R rotary O other (describe below)

J jet S submersible

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 29

CAPACITY:  
GALLONS PER MINUTE  
(to nearest gallon) 31 35

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 1 (nearest foot)

LOCATION OF WELL ON LOT

SHOW PERMANENT STRUCTURE SUCH AS  
BUILDING, SEPTIC TANKS, AND /OR  
LANDMARKS AND INDICATE NOT LESS  
THAN TWO DISTANCES  
(MEASUREMENTS TO WELL)

N 39° 27.429  
W 76° 41.443

C1 6706		(MDE USE ONLY)		<b>WELL COMPLETION REPORT</b> FILL IN THIS FORM COMPLETELY PLEASE TYPE		45 DAYS AFTER WELL IS COMPLETED.	
1 2 3 4 5 6 (THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)		DATE WELL COMPLETED		Depth of Well		COUNTY NUMBER	
ST/CO USE ONLY DATE RECEIVED MM DD YY		MAY DO YY 8 19 11 (8/19/11)		22 500 26 (TO NEAREST FOOT)		PERMIT NO. FROM "PERMIT TO DRILL WELL" HO 95-2189	
OWNER		STREET OR RFD		TOWN		LOT	
SUBDIVISION		SECTION		LOT			

<b>WELL LOG</b> Not required for driven wells STATE THE KIND OF FORMATIONS PENETRATED, THEIR COLOR, DEPTH, THICKNESS AND IF WATER BEARING			<b>GROUTING RECORD</b> WELL HAS BEEN GROUTED (Circle Appropriate Box) TYPE OF GROUTING MATERIAL (Circle one) CEMENT <input checked="" type="checkbox"/> BENTONITE CLAY <input type="checkbox"/> NO. OF BAGS <u>18</u> NO. OF POUNDS <u>162</u> GALLONS OF WATER <u>24</u> DEPTH OF GROUT SEAL (to nearest foot) from <u>0</u> ft. to <u>59</u> ft. (enter 0 if from surface)			<b>C 3</b> <b>PUMPING TEST</b> HOURS PUMPED (nearest hour) <u>3</u> PUMPING RATE (gal. per min.) <u>4.2</u> METHOD USED TO MEASURE PUMPING RATE <u>with bucket</u> WATER LEVEL (distance from land surface) BEFORE PUMPING <u>42</u> ft. WHEN PUMPING <u>220</u> ft. TYPE OF PUMP USED (for test) <u>231</u> 5/9/14 <input type="checkbox"/> A air <input type="checkbox"/> P piston <input type="checkbox"/> T turbine <input type="checkbox"/> C centrifugal <input type="checkbox"/> R rotary <input type="checkbox"/> O other (describe below) <input type="checkbox"/> J jet <input checked="" type="checkbox"/> submersible		
DESCRIPTION (Use additional sheets if needed) Overburden 0 5' Soft Brown Shale/Do 5' 53' Fly Rock 53' 500' 5/9/2014 Radium Sample Collected During Yield Test. (BB)			<b>CASING RECORD</b> casing types insert appropriate code below <input type="checkbox"/> ST STEEL <input type="checkbox"/> CO CONCRETE <input type="checkbox"/> PL PLASTIC <input type="checkbox"/> OT OTHER MAIN CASING TYPE <u>PL</u> Nominal diameter top (main) casing (nearest inch) <u>6</u> Total depth of main casing (nearest foot) <u>59</u> 60 61 62 63 64 65 66 67 68 69 70					
OTHER CASING (if used) diameter depth (feet) inch from to			<b>SCREEN RECORD</b> screen type or open hole insert appropriate code below <input type="checkbox"/> ST STEEL <input type="checkbox"/> BR BRASS <input type="checkbox"/> HO OPEN HOLE <input type="checkbox"/> PL PLASTIC <input type="checkbox"/> OT OTHER					
NUMBER OF UNSUCCESSFUL WELLS <u>0</u>			<b>C 2</b> DEPTH (nearest ft.) <u>140</u> <u>59</u> <u>500</u> 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70					
WELL HYDROFRACTURED <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO			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 <u>MAD 557</u> DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION) LIC. NO. 1 <u>D</u>			GRAVEL PACK IF WELL DRILLED WAS FLOWING WELL INSERT F IN BOX 66 MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER) (E.R.O.S.) W O 70 72 74 75 76 TELESCOPE CASING LOG INDICATOR OTHER DATA					
SITE SUPERVISOR (sign. of driller or journeyman responsible for sitework if different from permittee)			LOCATION OF WELL ON LOT SHOW PERMANENT STRUCTURE SUCH AS BUILDING, SEPTIC TANKS, AND/OR LANDMARKS AND INDICATE NOT LESS THAN TWO DISTANCES (MEASUREMENTS TO WELL) N 39° 27.429 W 76° 41.443					



B 1	7259	SEQUENCE NO. (MDE USE ONLY)	STATE OF MARYLAND <b>APPLICATION FOR PERMIT TO DRILL WELL</b> 535915 please type	STATE PERMIT NUMBER <b>HO-95-2189</b> fill in this form completely
Date Received (APA) 07-26-2011 8 MM DD YY 13		<b>OWNER INFORMATION</b>		
15 Last Name Merkle		Owner First Name Arthur		
36 Street or RFD 1940 Woodstock Road		55		
57 Town Woodstock MD		72 State		76 Zip 21163
<b>DRILLER INFORMATION</b>				
Driller's Name Michael B. Richard		M 5 D 157 License No. 81		
Firm Name G.E. Harr Well Drilling				
Address 12047 Falls Road Cockeyville MD				
Signature [Signature] Date 7-21-11				
B 2		<b>WELL INFORMATION</b>		
1 2		APPROX. PUMPING RATE (GAL. PER MIN.) 8 750 12		
AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY)		14 20		
<b>USE FOR WATER (CIRCLE APPROPRIATE BOX)</b>				
<input checked="" type="checkbox"/> DOMESTIC POTABLE SUPPLY & RESIDENTIAL IRRIGATION <input type="checkbox"/> FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION) <input type="checkbox"/> INDUSTRIAL, COMMERCIAL, DEWATERING <input type="checkbox"/> PUBLIC WATER SUPPLY WELL <input type="checkbox"/> TEST, OBSERVATION, MONITORING <input type="checkbox"/> GEO-THERMAL				
<b>NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL</b>				
COUNTY NAME Howard (13) A533269 COUNTY NO. 41 STATE SIGNATURE DATE ISSUED 8/8/2011 Brian Baker 8/8/2012 CO SIGNATURE NORTH GRID 541 000 55 EAST GRID 833 000 63				
APPROXIMATE DEPTH OF WELL 24 300 28 FEET		APPROXIMATE DIAMETER OF WELL 6 INCH		
<b>METHOD OF DRILLING (circle one)</b>				
BORED (or Augered) JETTED Jetted & DRIVEN AIR-ROTary AIR-PERCussion ROTARY (Hydraulic Rotary) CABLE REVERSE-ROTary Drive-POINT other				
<b>REPLACEMENT OR DEEPEMED WELLS (CIRCLE APPROPRIATE BOX)</b>				
<input checked="" type="checkbox"/> THIS WELL WILL NOT REPLACE AN EXISTING WELL <input type="checkbox"/> THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED <input type="checkbox"/> THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY-CONTACT LOCAL APPROVING AUTHORITY FOR POLICY ON STANDBY WELLS <input type="checkbox"/> THIS WELL WILL DEEPEMED AN EXISTING WELL				
PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEMED (IF AVAILABLE) 41 52				
<b>Not to be filled in by driller (MDE OR COUNTY USE ONLY)</b>				
APPROP. PERMIT NUMBER G				
PERMIT No. HO-95-2189				
<b>SPECIAL CONDITIONS</b>				
NOTE - APPROVING AUTHORITIES SHOULD TEST FOR RADIUM DURING YIELD TEST				

**LOCATION OF WELL**

8 COUNTY Howard

23 SUBDIVISION

SECTION 44 46 LOT 48 50

52 NEAREST TOWN Woodstock

MILES FROM TOWN (enter 0 if in town) 0 M I

11 NEAR WHAT ROAD Woodstock Road

ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)

34 37

DISTANCE FROM ROAD 470

ENTER FT OR MI 47

TAX MAP: 10 BLK: 24 PARCEL

**DIRECTION OF WELL FROM TOWN (CIRCLE BOX)**

**SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X**

SOURCES OF DRILLING WATER

1. 300

2.

3.

WRITE THE BOX NUMBER FROM THE MAP HERE

E 8303

N 5401

DRAW A SKETCH BELOW SHOWING LOCATION OF WELL IN RELATION TO NEARBY TOWNS AND ROADS AND GIVE DISTANCE FROM WELL TO NEAREST ROAD JUNCTION

# HARR WELL DRILLING

12047 FALLS ROAD

COCKEYSVILLE, MD 21030

410-252-4588

## HOWARD COUNTY WELL YIELD TEST REPORT

Date Test Performed: 08-25-11  
Address: 1930 Woodstock Road  
Owner: Arthur Merkle  
Well Depth: 500 Ft

Permit Number: HO-95-2189  
Subdivision:  
Election District:  
Static Water Level: 42 Ft

Time	Water Level	PSI Existing Pump	Pumping Rate Seconds to fill 1 Gallon bucket	Calculated Flow-Gallons Per Minute
0800	42 ft	60 psi	5 sec	12.00
0815	74	60	6	10.00
0830	94	60	6	10.00
0845	122	60	6	10.00
0900	166	60	7	8.57
0915	203	30	8	7.50
0930	215	25	10	6.00
0945	220	20	10	6.00
1000	220	20	13	4.61
1015	220	20	14	4.28
1030	220	20	14	4.28
1045	220	20	14	4.28
1100	220	20	14	4.28

# HARR WELL DRILLING

12047 FALLS ROAD  
COCKEYSVILLE, MD 21030  
410-252-4588

## HOWARD COUNTY YIELD TEST REPORT

Date Test Performed: 05-09-2014

Address: 1930 Woodstock Road

Owner Name: Arthur Merkle

Well Depth: 500 Ft

Permit Number: HO-95-2189

Subdivision:

Election District:

Static Water Level: 30 Ft

Time	Water Level	PSI Existing Pump	Pumping Rate Seconds to fill 5 gallon bucket	Calculated Flow-Gallons Per Minute
0815	30 ft	45 psi	15 sec	20.00
0830	144	30	20	15.00
0845	193	25	23	13.04
0900	212	20	25	12.00
0915	224	15	26	11.54
0930	228	15	28	10.71
0945	231	35	35	8.57
1000	231	35	35	8.57
1015	231	35	35	8.57
1030	231	35	35	8.57
1045	231	35	35	8.57
1100	231	35	35	8.57
1115	231	35	35	8.57
1130	231	35	35	8.57
1145	231	35	35	8.57
1200	231	35	35	8.57
1215	231	35	35	8.57
1230	231	35	35	8.57
1245	231	35	35	8.57
1300	231	35	35	8.57

OK res 5/14/14

# HARR WELL DRILLING

12047 FALLS ROAD  
COCKEYSVILLE, MD 21030  
410-252-4588

## HOWARD COUNTY YIELD TEST REPORT

Date Test Performed: 05-09-2014

Permit Number: HO-95-2189

Address: 1930 Woodstock Road

Subdivision:

Owner Name: Arthur Merkle

Election District:

Well Depth: 500 Ft

Static Water Level: 30 Ft

Time	Water Level	PSI Existing Pump	Pumping Rate Seconds to fill 5 gallon bucket	Calculated Flow-Gallons Per Minute
0815	30 ft	45 psi	15 sec	20.00
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1015	231	35	35	8.57
1030	231	35	35	8.57
1045	231	35	35	8.57
1100	231	35	35	8.57
1115	231	35	35	8.57
1130	231	35	35	8.57
1145	231	35	35	8.57
1200	231	35	35	8.57
1215	231	35	35	8.57
1230	231	35	35	8.57
1245	231	35	35	8.57
1300	231	35	35	8.57

# HARR WELL DRILLING

12047 FALLS ROAD

COCKEYSVILLE, MD 21030  
410-252-4588

## HOWARD COUNTY WELL YIELD TEST REPORT

Date Test Performed: 08-25-11  
Address: 1930 Woodstock Road  
Owner: Arthur Merkle  
Well Depth: 500 Ft

Permit Number: HO-95-2189  
Subdivision:  
Election District:  
Static Water Level: 42 Ft

Time	Water Level	PSI Existing Pump	Pumping Rate Seconds to fill 1 Gallon bucket	Calculated Flow-Gallons Per Minute
0800	42 ft	60 psi	5 sec	12.00
0815	74	60	6	10.00
0830	94	60	6	10.00
0845	122	60	6	10.00
0900	166	60	7	8.57
0915	203	30	8	7.50
0930	215	25	10	6.00
0945	220	20	10	6.00
1000	220	20	13	4.61
1015	220	20	14	4.28
1030	220	20	14	4.28
1045	220	20	14	4.28
1100	220	20	14	4.28

not 3 hrs.  
not approvable  
ref

HOWARD COUNTY HEALTH DEPARTMENT  
BUREAU OF ENVIRONMENTAL HEALTH  
WELL & SEPTIC PROGRAM  
TEL: (410)313-1771 FAX: (410)313-2648

Attn  
Sarah  
Collins  
410-313-6278

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: CLASSIC Plumbing Telephone #: 301 695 7934  
Address: PO BOX 1143  
FREDERICK MD 21702

(Must circle one) Licensed Plumber Licensed Well Driller Licensed Well Pump Installer  
License # and name of individual responsible for the field installation:

Name (Print): Robert H. Hall License #: 1788

\*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: Mike McGinnis Telephone #: 410-409-8248  
Subdivision: \_\_\_\_\_ Lot #: \_\_\_\_\_ Well Tag #: HO-95-2189  
Site Address: 1930 WOODSTOCK RD

Submersible Pump Data

Make: \_\_\_\_\_  
Model #: \_\_\_\_\_  
Pump Capacity: \_\_\_\_\_ GPM  
Well Yield: \_\_\_\_\_ GPM

Pitless Adapter

Make: METAL  
Model #: M3N-50  
Depth: 36" (36" min)  
NSF/WSC approved: ✓

Well Cap and Electric Conduit

Two piece watertight cap: ✓  
Screened, vented well cap: ✓  
Cap secured to casing: ✓  
Conduit min 18" B.G.: ✓  
Conduit secured to well cap: ✓

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

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

Torque arrestors, Cable guards, or other acceptable method used- Must circle one inside of well casing

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

Piping to house

Type: PDI  
PSI: 160 (160 psi min)  
Depth of supply line: 36" (36" min)

House Connection

PVC sleeve to undisturbed soil at wall penetration: ✓  
Length of sleeve (5' minimum from foundation): 5'  
Sleeve sealed properly: ✓

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 \_\_\_\_\_

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

Date Insp. Requested: 11/21/16 Date Insp. Approved: 11/21/16 Inspector: SC  
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 ✓

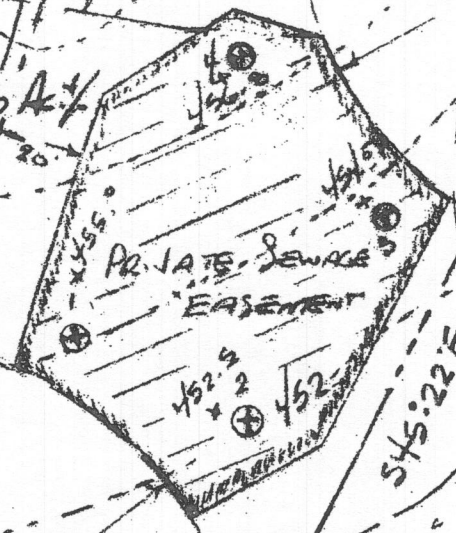
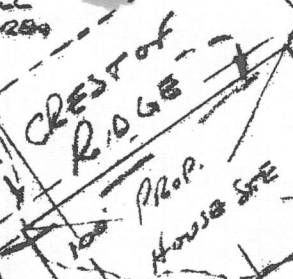
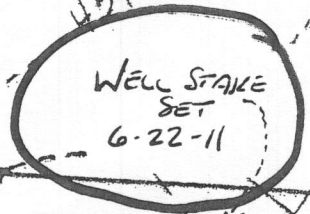


RTE 99. OLD FREDERICK ROAD

8/8/2011  
Well Site Staked  
by David Ransone  
(Surveyor). (BB)



MAP 10  
PARCEL 37



WOODSTOCK ROAD

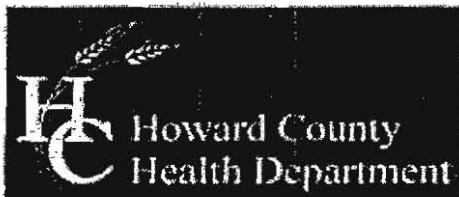
Zoned RC

PLAT SHOWING  
WELL LOCATION  
FOR

TAX MAP 10, PARCEL 206  
MERILLE PROPERTY

SCALE 1" = 50' 6-22-11  
DAVID RANSONE - LS  
204 E. OGE AVE  
TOWSON, MD 21286  
410-207-8358





Bureau of Environmental Health  
7178 Columbia Gateway Drive, Columbia, MD 21046-2147  
(410) 313-2640 Fax (410) 313-2648  
TDD (410) 313-2323 Toll Free 1-866-313-6300  
website: www.hchealth.org

Peter L. Beilenson, M.D., M.P.H., 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: #1950 WOODSTOCK ROAD  
TAX MAP #10 PARCEL 200, KAREN MERKLE, et al.  
Subdivision/Property Name      Lot#      Road Name

☒ The well site has been staked by DAVID RANSONE MD. #10928 410-207-8388  
(professional land surveyor or company employing professional land surveyors)  
on JUNE 22, 2011 (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.

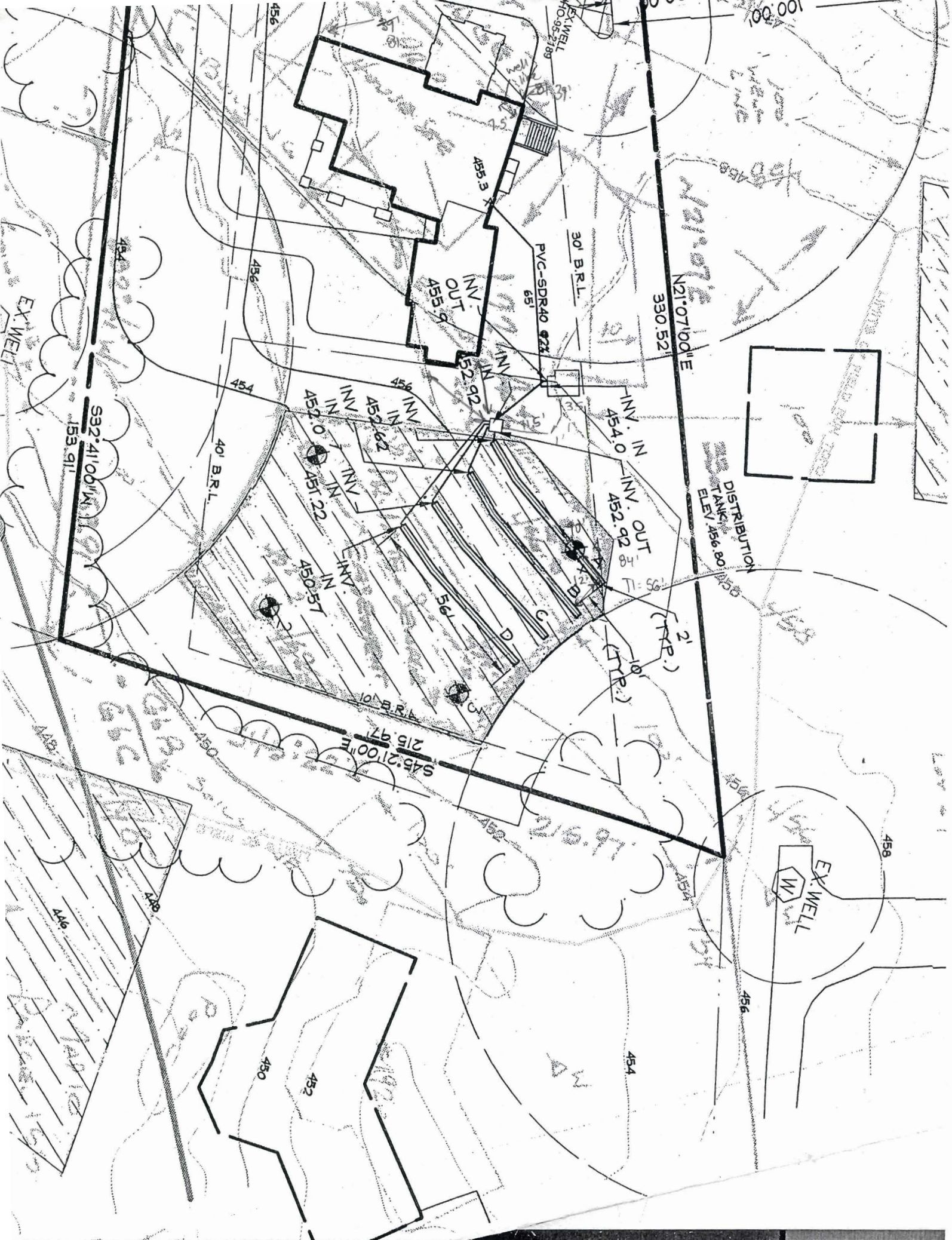
This sheet, along with two copies of an acceptable well site plan, must be attached to the green well permit application.



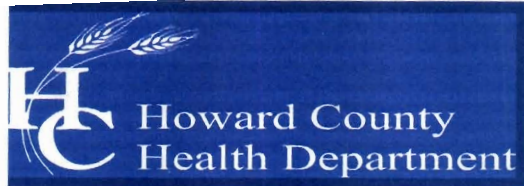
Revised 3/11/05

6/22/11









Bureau of Environmental Health

7178 Columbia Gateway Drive, Columbia, MD 21046-2147

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

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

July 21, 2014

Mr. Michael McGinnis  
10138 Hopson's Choice Lane  
Ellicott City, Maryland 21042

RE: 1930 Woodstock Road  
Well Tag: HO - 95 - 2189

Dear Mr. McGinnis:

A sample was collected during a yield test on May 9, 2014 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 screening revealed a **Gross Alpha** of  $14.9 \pm 2.7$  picocuries/liter (pCi/L), while the **Gross Beta** level was  $5.8 \pm 2.0$  pCi/L. With the margin of error, the **Gross Alpha** result was above 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, the future well water supply **may not** meet EPA regulatory standards. Additional testing **for these parameters, plus Radium 226 and Radium 228** will be required to secure the future Use & Occupancy. Given the finding for **Gross Alpha**, the installation of a water softener system and / or a reverse osmosis system may be necessary. If treatment is installed, **pre and post short and long term Gross Alpha and Beta, plus a post Radium 226 / 228** will be needed to properly evaluate the effectiveness of the installed treatment(s). Alternatively, you may collect raw water samples for **short and long term Gross Alpha and Beta, plus Radium 226 / 228** to see if all values are below existing standards. Given that it typically takes up to one month to perform and receive back the **Radium** analyses, plan accordingly. Please also note that other standard testing parameters (bacteria, nitrate, turbidity and sand) will still be required 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 or to schedule additional testing.

Sincerely,

A handwritten signature in cursive script that reads 'Bert Nixon'.

Bert Nixon, Director  
Bureau of Environmental Health

Enclosure  
cc: Well & Septic Property File

**INTERIM CERTIFICATE OF POTABILITY**

**Expiration Date – FEBRUARY 27, 2019**

August 27, 2018

Homeowner  
1930 Woodstock Road  
Woodstock, MD 21163

**RE: Merkle Property, P. 206**  
**1930 Woodstock Road**  
**Building Permit: B14000996**  
**Well Permit: HO-95-2189**

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 **2/8/2018**. Final approval of the well line connection to the dwelling was granted on **11/21/2016**. The well construction was completed on **8/19/2011**. Water samples were collected on **2/14/2018**.

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 **2/14/2018**. Results showed a Radium-226 level of **0.7 ± 0.0 pCi/L** and a Radium-228 level of **1.1 ± 0.0 pCi/L**. The combined Radium 226/228 has a maximum contaminant level (MCL) of 5 pCi/L. The results for this test showed a combined level of 1.8pCi/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-95-2189. 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.**



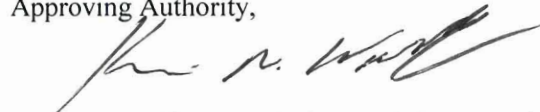
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**Maura J. Rossman, M.D., Health Officer**

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 Environment 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

**FOUNTAIN VALLEY ANALYTICAL LABORATORY, INC.**

1413 Old Taneytown Rd. Westminster, MD (410) 848-1014 (410) 876-4554 FAX (410) 848-0298

**REPORT OF ANALYSIS**

Laboratory ID #: 119948 Account #: 27689  
Reference: Mike McGinnis Company: CASH ACCOUNT  
Location: 1930 Woodstock Road Requested By: Mike McGinnis  
Granite, MD 21163 Source: Well Water  
Date/ Time Collected: 2/14/2018 1405 Site: Powder Room Sink  
Date/Time Rec'd: 2/14/2018 1540 Treatment: None  
Chlorine ppm: Free: ND Total: ND pH: 6.4  
Collected By: B. Dutterer 4717BD Well #: HO-95-2189

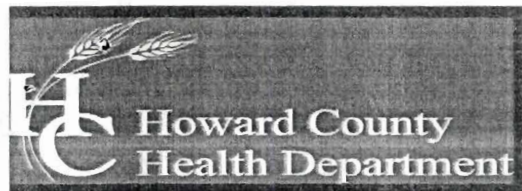
PARAMETERS	RESULTS	UNITS	REFERENCE	METHOD	DATE/TIME/ANALYST
Radium-226	0.7	pCi/L	****	903.1	2/26/2018 / 1107 / MJN
Radium-228	1.1	pCi/L	****	Ra-05	2/26/2018 / 0957 / SN

**NOTES**

- 1 \*\*\*\*Radium 226 and Radium 228 combined have a reference of 5 pCi/L
- 2 pCi/L = picocuries per liter
- 3 Radium 226 Detection Limit: 0.1 pCi/L; Radium 228 Detection Limit: 0.9 pCi/L
- 4 Results less than or within the reference range are considered satisfactory and within potable water limits at the time of sampling.
- 5 Sub-contracted to Reference Lab #278
- 6 ND:None Detected
- 7 Visual well check: Sealed, vented cap
- 8 pH & Chlorine level tested on site

Reason for Test : Use & Occupancy  
Building Permit # : 14000996

Date Reported: 2/28/2018



## Bureau of Environmental Health

7178 Columbia Gateway Drive, Columbia, MD 21046-2147

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

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

[www.hchealth.org](http://www.hchealth.org)

Facebook: [www.facebook.com/hocohealth](https://www.facebook.com/hocohealth)

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

July 21, 2014

Mr. Michael McGinnis  
10138 Hopson's Choice Lane  
Ellicott City, Maryland 21042

RE: 1930 Woodstock Road  
Well Tag: HO - 95 - 2189

Dear Mr. McGinnis:

A sample was collected during a yield test on May 9, 2014 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 screening revealed a **Gross Alpha** of  $14.9 \pm 2.7$  picocuries/liter (pCi/L), while the **Gross Beta** level was  $5.8 \pm 2.0$  pCi/L. With the margin of error, the **Gross Alpha** result was above 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, the future well water supply **may not** meet EPA regulatory standards. Additional testing **for these parameters, plus Radium 226 and Radium 228** will be required to secure the future Use & Occupancy. Given the finding for **Gross Alpha**, the installation of a water softener system and / or a reverse osmosis system may be necessary. If treatment is installed, pre and post short and long term Gross Alpha and Beta, plus a post Radium 226 / 228 will be needed to properly evaluate the effectiveness of the installed treatment(s). Alternatively, you may collect raw water samples for **short and long term Gross Alpha and Beta, plus Radium 226 / 228** to see if all values are below existing standards. Given that it typically takes up to one month to perform and receive back the **Radium** analyses, plan accordingly. Please also note that other standard testing parameters (bacteria, nitrate, turbidity and sand) will still be required 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 or to schedule additional testing.

Sincerely,

Bert Nixon, Director  
Bureau of Environmental Health

Enclosure

cc: Well & Septic Property File



SEND REPORT TO: Bert Nixon

DEPARTMENT OF HEALTH AND MENTAL HYGIENE

Laboratories Administration

201 W. Preston St., Baltimore, MD 21201

Robert A. Myers, Ph.D., Director

Lab No.

E002605 E 122

## RADIATION ANALYSIS REQUEST FORM

Plant/Site Name: \_\_\_\_\_

County: \_\_\_\_\_

Sample Source: \_\_\_\_\_

Location: \_\_\_\_\_

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

Radon-222

Bottle A H0-95-2189

Radon-222 Field Blank

Bottle A 2189 BB

Bottle B \_\_\_\_\_

Bottle B \_\_\_\_\_

County

13

Plant No.

MD 21042

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: \_\_\_\_\_

Federal Project: \_\_\_\_\_

Collector: \_\_\_\_\_

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

Date Collected: \_\_\_\_\_

Time Collected: \_\_\_\_\_

11:00 a.m.

p.m.

Field pH: \_\_\_\_\_

Field Chlorine: \_\_\_\_\_

Nitric Acid Preserved: Yes ☒ No ☐Iced: Yes ☐ No ☒

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

Sample Collected During Yield Test

<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	<u>2605</u>	<u>EPA 900.0</u>	<u>14.9 ± 2.7</u>	<u>5/13/14</u>	<u>MA</u>	<u>5/14/14</u>
<input checked="" type="checkbox"/>	Gross Beta	4100	<u>2605</u>	<u>L</u>	<u>5.8 ± 2.0</u>	<u>L</u>	<u>L</u>	<u>L</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: \_\_\_\_\_

Received By: \_\_\_\_\_

Data Release Signature: \_\_\_\_\_

Date: \_\_\_\_\_

5/14/14

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

•Tel. No.: (410) 767-5537 •Fax No.: (410) 333-5373

SEND REPORT TO:

DEPARTMENT OF HEALTH AND MENTAL HYGIENE

Laboratories Administration

201 W. Preston St., Baltimore, MD 21201

Robert A. Myers, Ph.D., Director

Lab No.

002604 E12

## RADIATION ANALYSIS REQUEST FORM

Plant/Site Name:

Field Blank

County:

Howard

Sample Source:

289

Location:

H0-95-2195 FB

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

Radon-222

Bottle A

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 type="checkbox"/>
Other	<input type="checkbox"/>

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

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

Submitters Code:

Federal Project:

Collector:

B. Baker

Telephone No.:

(410) 313-2643

Date Collected:

5/9/14

Time Collected:

11:00

a.m.

p.m.

Field pH:

Field Chlorine:

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	2604	EPA 900.0	< 2.0	5/13/14	MA	5/14/14
<input checked="" type="checkbox"/>	Gross Beta	4100	2604		< 4.0			
<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"/>								

Date Received:

5/12/14

Received By:

Sally

Data Release Signature:

Deborah Miller

Date:

5/14/14

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.: (410) 767-5537 •Fax No.: (410) 333-5373



0216 MARISA 6/2/14

# Invoice



Howard County  
Health Department

Bureau of Environmental Health  
Attn: Bert Nixon, Director

DATE: JUNE 2, 2014  
DATE OF SERVICE: MAY 9, 2014  
INVOICE #: 2014-007

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

BILL TO Michael McGinnis  
~~2257 Merion Pond~~  
~~Woodstock, Maryland 21163~~

10138 Hobsons Choice Ln  
Ellicott City MD 21042

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

DATE	DESCRIPTION	BALANCE	AMOUNT
05/09/14	Gross alpha/beta testing performed for 1930 Woodstock Road HO - 95 - 2189		\$45.00
			AMOUNT DUE
			\$45.00

Please detach and return with payment.

REMITTANCE	
Invoice #	2014-007
Site Information	1930 Woodstock Road
Amount Due	\$45.00

payment  
7/16/14

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

Receipt 54543

**FOUNTAIN VALLEY ANALYTICAL LABORATORY, INC.**

1413 Old Taneytown Rd. Westminster, MD (410) 848-1014 (410) 876-4554 FAX (410) 848-0298

**REPORT OF ANALYSIS**

Laboratory ID #: 119947 Account #: 27689  
Reference: Mike McGinnis Company: CASH ACCOUNT  
Location: 1930 Woodstock Road Requested By: Mike McGinnis  
Granite, MD 21163 Source: Well Water  
Date/ Time Collected: 2/14/2018 1405 Site: Powder Room Sink  
Date/Time Rec'd: 2/14/2018 1540 Treatment: None  
Chlorine ppm: Free: ND Total: ND pH: 6.4  
Collected By: B. Dutterer 4717BD Well #: HO-95-2189

PARAMETERS	RESULTS	UNITS	REFERENCE	METHOD	DATE/TIME/ANALYST
Bacteria, Coliform, Total, MPN	<1.0	MPN/ 100 ml	<1.0	SM20 9223	2/15/2018 / 1015 / CRS
Bacteria, E. coli, MPN	<1.0	MPN/ 100 ml	<1.0	SM20 9223	2/15/2018 / 1015 / CRS
Nitrate	2.45	mg/L	10	601	2/15/2018 / 0900 / CRS
Turbidity	0.73	NTU	<10	SM20 2130B	2/14/2018 / 1630 / CRS
Sand	NS	mg/L	5	Visual/Gravimetric	2/14/2018 / 1645 / CRS

**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 NS = None Seen (NS indicates less than 5 mg/L)
- 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 ND:None Detected
- 7 Visual well check: Sealed, vented cap
- 8 pH & Chlorine level tested on site

**Reason for Test :** Use & Occupancy**Building Permit # :** 14000996Date Reported: 2/15/2018