

B 1	SEQUENCE NO. (MDE USE ONLY) <u>0644</u>	STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL please type <u>530792</u>	STATE PERMIT NUMBER <u>HO - 95 - 2276</u> <small>fill in this form completely</small>
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OWNER INFORMATION

Date Received (APA) 040512
8 MM DD YY 13

15 Last Name Williamsburg Owner Harro First Name Harro 34

36 3485 Harro's Farm rd Street or RFD 55

57 Columbia Town 70 MD State 72 21044 Zip 76

LOCATION OF WELL

8 COUNTY Howard 21

23 SUBDIVISION BLEVINS PRO. 42

SECTION 44 46 LOT 48 50

52 NEAREST TOWN Clarksville 71

DRILLER INFORMATION

Driller's Name Allen Compton M SD009 License No. 81

Firm Name Fogles Well Drilling

Address 580 Obrecht rd Sykesville

Signature Allen Compton Date 4-3-12

SOURCES OF DRILLING WATER

11 Hall shop rd STREET ADDRESS 30

ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)

NORTH
 WEST
 EAST
 SOUTH

34 1400 37 DISTANCE FROM ROAD FT

ENTER FT OR MI 38 39

TAX MAP: 35 BLK: 19 PARCEL 30

WELL INFORMATION

APPROX. PUMPING RATE (GAL. PER MIN.) 5 8 12

AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) 500 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

Howard (13) A 536034
COUNTY NAME COUNTY NO.

STATE SIGNATURE _____ INSERT S →

DATE ISSUED 4/12/12 Kim M. Huff 4/12/13
43 MM DD YY 48 CO SIGNATURE EXP. DATE

APPROXIMATE DEPTH OF WELL 300 FEET 24 28

APPROXIMATE DIAMETER OF WELL 6 INCH NEAREST INCH

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 DEEPEM AN EXISTING WELL

PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEMED (IF AVAILABLE) 41 _____ 52

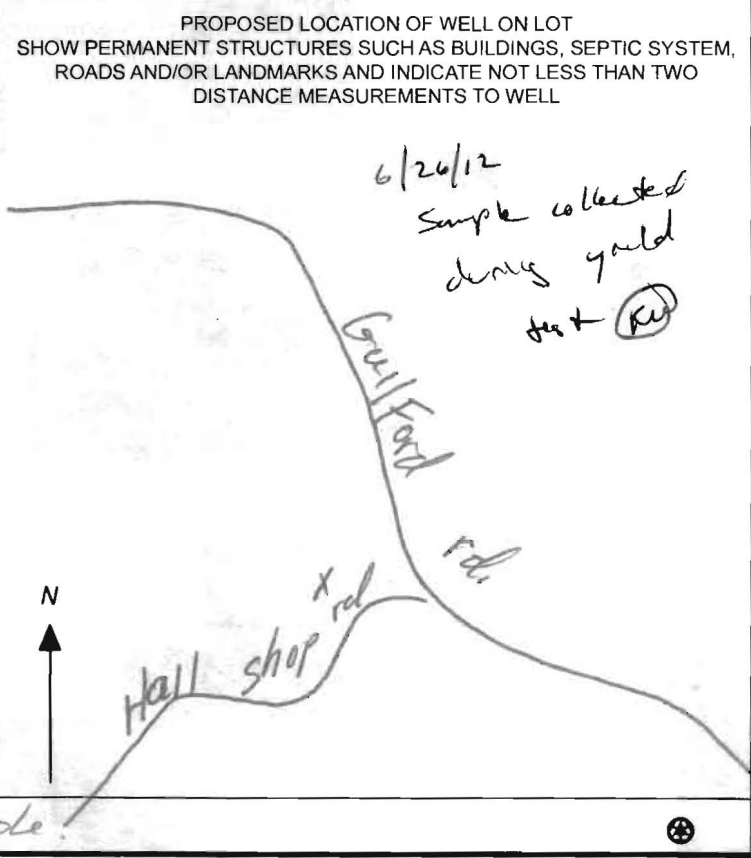
Not to be filled in by driller (MDE OR COUNTY USE ONLY)

APPROP. PERMIT NUMBER _____ G _____

PERMIT No. HO - 95 - 2276
70 71 72 73 74 75 76 77 78 79

SPECIAL CONDITIONS Need Radium Sample

NOTE APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED



Yield Test Data Sheet

County File # _____

MD Well Permit #: H0-95 2276

Subdivision Name: BLEVINS PRO.

Section _____ Lot # 6

Street Address: Hall shop rd

Measuring Point (MP) Description: Top of casing
(for ex. "Top of casing")

Distance from MP to ground surface 1 ft.

Well Depth 200' ft.

Well Driller: Fogles - Allen

Must be submitted with the State of Maryland Well Completion Report

Submit to:

Pump Start Time <u>8:00</u>	Static Water level: <u>32</u> ft.	Pumping Rate () Time to fill <u>1</u> gal. bucket () Flow meter reading (if used)	Calculated Flow (gallons per minute) <u>15</u>
TIME	WATER LEVEL BELOW M.P.		

Water level and pumping rate must be recorded every 15 minutes

#	TIME	WATER LEVEL ft.	PUMPING RATE	CALCULATED FLOW (GPM)
1	8:00	32	4	15
2	8:15	45	4	15
3	8:30	45	4	15
4	8:45	45	4	15
5	9:00	45	4	15
6	9:15	45	4	15
7	9:30	45	4	15
8	9:45	45	4	15
9	10:00	45	4	15
10	10:15	45	4	15
11	10:30	45	4	15
12	10:45	45	4	15
13	11:00	45	4	15
14	11:15	45	4	15
15		ft.		GPM
16		ft.		GPM
17		ft.		GPM
18		ft.		GPM
19		ft.		GPM
20		ft.		GPM
21		ft.		GPM
22		ft.		GPM
23		ft.		GPM
24		ft.		GPM
25		ft.		GPM
26		ft.		GPM
27		ft.		GPM
28		ft.		GPM
29		ft.		GPM
30		ft.		GPM

NOTES:

Send Report To:

Bert Nixon

Howard County Health Department
~~Bureau of Environmental Health~~
7178 Columbia Gateway Drive
Columbia, Maryland 21046

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

201 W. Preston Street, Baltimore, Maryland 21201
John M. DeBoy, Dr. P. H., Director

LABORATORY ANALYSIS REQUEST

Sample Bottle No. A: H0952276 No. B: — Field Blank Bottle No. 1: FBKW62712 No B: —

Plant/Site Name: Bleniss Prop - lot 6 County: Howard

Sample Source: Hall Shop Rd. Location: H0-95-2276
(well no, lab sink, sample tap, etc.)

County: 1 3 Plant No.

CHECK (one per box)

Drinking Water
Landfill
Stream
Other

Community
Non-community
Private
Other

Source (raw water)
Distribution (treated)
MCL

Emergency
Routine
Recheck
Special

Collector: K. Wolf

Telephone No.: 410-313-2645

Date Collected: 6/26/12

Time Collected: 1:00 a.m. — p.m.

Nitric Acid Preserved: Yes No

Iced: Yes No

Submitters Code:

Federal Project:

Field Data: — pH — Chlorine

Remarks: Sample pH preserved to <2.0.

✓	Test	EPA Code	Laboratory No.	Results (pCi/L)	Date Analyzed	Date Reported
✓	Gross Alpha	4000				
✓	Gross Beta	4100				
	Radon-222 Bottle A	4004				
	Radon-222 Bottle B	4004				
	Field Blank #A	4004				
	Field Blank #B	4004				
	Tritium					
	Ra - 226	4020				
	Ra - 228	4030				
	Total Uranium	4006				

Date Received: — / — / —

Supervisor: _____

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

Send Report To:

Bob Nixon
Howard County Health Department
Bureau of Environmental Health
7178 Columbia Gateway Drive
Columbia, Maryland 21046

State of Maryland
DHMH - Laboratories Administration
Division of Environmental Chemistry
RADIATION LABORATORY
201 W. Preston Street, Baltimore, Maryland 21201
John M. DeBoy, Dr. P. H., Director

LABORATORY ANALYSIS REQUEST

Sample Bottle No. A: — No. B: — Field Blank Bottle No. 1: FBKW62712 No B: —

Plant/Site Name: Howard County Health Dept. County: Howard

Sample Source: Distilled water Location: lab
(well no, lab sink, sample tap, etc.)

County: 1 3 Plant No.

CHECK (one per box)

Drinking Water
Landfill
Stream
Other

Community
Non-community
Private
Other

Source (raw water)
Distribution (treated)
MCL

Emergency
Routine
Recheck
Special

Collector: K. Wolf

Telephone No.: 410 312 2645

Date Collected: 6/26/12

Time Collected: 10⁰⁰ a.m. _____ p.m.

Nitric Acid Preserved: Yes No

Iced: Yes No

Submitters Code: Federal Project:

Field Data: _____
pH _____ Chlorine _____

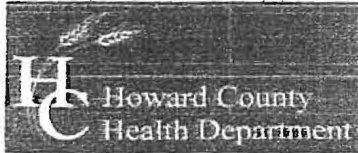
Remarks: Field Blank

✓	Test	EPA Code	Laboratory No.	Results (pCi/L)	Date Analyzed	Date Reported
	Gross Alpha	4000				
	Gross Beta	4100				
	Radon-222 Bottle A	4004				
	Radon-222 Bottle B	4004				
✓	Field Blank #A	4004				
	Field Blank #B	4004				
	Tritium					
	Ra - 226	4020				
	Ra - 228	4030				
	Total Uranium	4006				

Date Received: ___/___/___

Supervisor: _____

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



Bureau of Environmental Health
7778 Columbia Gateway Drive, Columbia, MD 21046-2147
(410) 313-2640 Fax (410) 313-2645
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: Blevins 1-3-5-6-7
Subdivision/Property Name Lot# Road Name

The well site has been staked by Sell Adcock & Assoc.
(professional land surveyor or company employing professional land surveyors)
on 4-4-12 (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

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

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: Fogles Well Drilling LLC Telephone #: 410 795 5676
 Address: PO Box 202
Woodbine, MD 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): David 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: Williamsburg Bro Telephone #: 410 977 3345
 Subdivision: Estates @ Clarksville Lot #: 5 Well Tag #: HO-95-22712 ✓
 Site Address: 11029 Blevins Dr
Clarksville, MD 21029

<u>Submersible Pump Data</u>	<u>Pitless Adapter</u>	<u>Well Cap and Electric Conduit</u>
Make: <u>Grundfos</u>	Make: <u>Camdell</u>	Two piece watertight cap: <u>YES</u>
Model #: <u>1550E07-160</u>	Model #: <u>N/A</u>	Screened, vented well cap: <u>YES</u>
Pump Capacity: <u>15</u> GPM	Depth: <u>36"</u> (36" min)	Cap secured to casing: <u>YES</u>
Well Yield: <u>8</u> GPM	NSF/WSC approved: <u>YES</u>	Conduit min 1 1/2" B.G.: <u>YES</u>
Depth of well encountered at time of pump installation: <u>200</u> (feet)		Conduit secured to well cap: <u>YES</u>
If pump capacity exceeds well yield, a low water cut off switch is required by NSPC 1990 Section 17.8.4		
Torque anastors, Cable guards, or other acceptable method used—Must circle one		
Safety rope, if used, attached to brass rope adapter or other acceptable method <u>inside of well casing N/A</u>		

<u>Piping to house</u>	<u>House Connection</u>
Type: <u>1" poly pipe</u>	PVC sleeve to undisturbed soil at wall penetration: <u>YES</u>
PSI: <u>200</u> (160 psi min)	Length of sleeve (5" minimum from foundation): <u>6'</u>
Depth of supply line: <u>36"</u> (36" min)	Sleeve sealed properly: <u>YES</u>

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: David Fogle date: 4/11/16

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

Date Insp. Requested: 4/4/16 Date Insp. Approved: 4/4/16 Inspector: RJR
 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 ✓

NOTE on Stickers:
 ok to backfill
 but water in trench
 close to house must
 be drained and the
 entire length of the
 well line must be
 at least 36" deep. (RJR)
 4/4/16

Wolf, Kevin

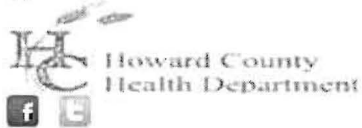
From: Wolf, Kevin
Sent: Friday, July 01, 2016 4:41 PM
To: Bob Corbett (Bob Corbett@howardcountymd.gov)
Subject: 11029 Blevins Drive ICOP
Attachments: 20160701164501963.pdf

Bob,

I need the appropriate radium results for this property. Please forward to me in order to process the ICOP. I have the attached the original radium letter showing very elevated gross alpha/beta results. Also in the letter explains the treatment needed and the type of testing that must occur.

Thanks,

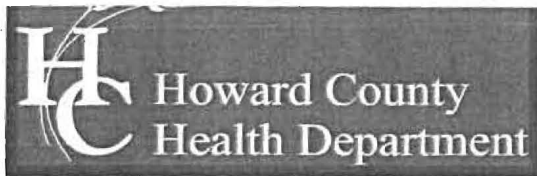
Kevin M. Wolf, LEHS, REHS/RS
Groundwater Mgmt. Sec. Supervisor
Well & Septic Program
Bureau of Environmental Health
8930 Stanford Blvd.
Columbia, MD 21045
(o) 410-313-2645
(f) 410-313-2648



kwolf@howardcountymd.gov

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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

Peter L. Beilenson, M.D., M.P.H., Health Officer

September 24, 2012

Williamsburg Homes
Attn. Bob Corbett
5485 Harpers Farm Road, Suite 200
Columbia, Maryland 21044

RE: Blevin's Property Lot 65
Hall Shop Road
Well Tag: HO - 95 - 2276

Dear Mr. Corbett:

A sample was collected during a yield test on June 26, 2012 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 95.2 ± 7.3 picocuries/liter (pCi/L), while the **Gross Beta** level was 28.4 ± 2.8 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 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 **does 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 elevated finding for **Gross Alpha** and higher than normal finding for **Gross Beta**, at a **minimum**, the installation of a water softener system and / or a reverse osmosis system will be necessary. **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). 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.

Sincerely,

Bert Nixon, Director

Bureau of Environmental Health

Enclosure

cc: Barry Glotfelty, MDE Water Mgmt.
Well & Septic property file

Send Report To:

Bert Nixon
Howard County Health Department
Bureau of Environmental Health
7178 Columbia Gateway Drive
Columbia, Maryland 21046

State of Maryland
DHMH - Laboratories Administration
Division of Environmental Chemistry
RADIATION LABORATORY
201 W. Preston Street, Baltimore, Maryland 21201
John M. DeBoy, Dr. P. H., Director

E003063 427

LABORATORY ANALYSIS REQUEST

Sample Bottle No. A: No. B: Field Blank Bottle No. 1: FBKW62712 No B:

Plant/Site Name: Howard County Health Dept. County: Howard

Sample Source: Distilled water Location: lab
(well no, lab sink, sample tap, etc.)

County: 1 3 Plant No.

CHECK (one per box)

Drinking Water
Landfill
Stream
Other

Community
Non-community
Private
Other

Source (raw water)
Distribution (treated)
MCL

Emergency
Routine
Recheck
Special

Collector: K. Wolf

Telephone No.: 410 313 2645

Date Collected: 6/26/12 cent

Time Collected: 10:00 a.m. p.m.

Nitric Acid Preserved: Yes No

Iced: Yes No

Submitters Code: Federal Project:

Field Data: pH Chlorine

Remarks: Field Blank

✓	Test	EPA Code	Laboratory No.	Results (pCi/L)	Date Analyzed	Date Reported
	Gross Alpha	4000	3063	<2.0	06/28/12	06/29/12
	Gross Beta	4100	3063	<4.0	1	4
	Radon-222 Bottle A	4004				
	Radon-222 Bottle B	4004				
✓	Field Blank #A	4004				
	Field Blank #B	4004				
	Tritium					
	Ra - 226	4020				
	Ra - 228	4030				
	Total Uranium	4006				

Date Received: 06/27/12

Supervisor: SMG

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

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 #: 108026 Account #: 4470
Reference: Estates @ Clarksville Lot 5 Company: Williamsburg Homes LLC
Location: 11029 Blevins Drive Requested By: Bob Corbett
Clarksville, MD 21029 Source: Well Water
Date/ Time Collected: 6/17/2016 1149 Site: Test Port after Softener
Date/Time Rec'd: 6/17/2016 1340 Treatment: Softener/Reverse Osmosis**
Chlorine ppm: Free: ND Total: ND pH: 7.0
Collected By: R. Ott 4269RO Well #: HO-95-2276

PARAMETERS	RESULTS	UNITS	REFERENCE	METHOD	DATE/TIME/ANALYST
Radium-226	0.3	pCi/L	****	903.1	6/30/2016 / 1054 / MJN
Radium-228	<0.8	pCi/L	****	Ra-05	6/29/2016 / 1102 / SN

NOTES

- ****Radium 226 and Radium 228 combined have a reference of 5 pCi/L
- **Sample collected prior to Reverse Osmosis
- pCi/L = picocuries per liter
- Radium 226 Detection Limit: 0.1 pCi/L; Radium 228 Detection Limit: 0.8 pCi/L
- Results less than or within the reference range are considered satisfactory and within potable water limits at the time of sampling.
- Sub-contracted to Reference Lab #278
- ND:None Detected
- pH & Chlorine level tested on site
- Visual well check: Sealed, vented cap

Reason for Test : Use & Occupancy

Building Permit # : B15004676

Date Reported: 7/1/2016

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 #:	98903	Account #:	4470
Reference:	Williamsburg Group LLC	Company:	Williamsburg Homes LLC
Location:	11986 Hall Shop Road Clarksville, MD 21029	Requested By:	Bob Corbett
Date/ Time Collected:	2/10/2015 1227	Source:	Well Water
Date/Time Rec'd:	2/11/2015 1032	Site:	Pump Hose Lot 6
Chlorine ppm:	Free: ND Total: ND	Treatment:	None
Collected By:	J. Yeager 6176JY	pH:	6.1
		Well #:	HO-95-2276

PARAMETERS	RESULTS	UNITS	REFERENCE	METHOD	DATE/TIME/ANALYST
Gross Alpha, Long Term	46.6	pCi/L	15	900.0	2/17/2015 / 0956 / MJN
Gross Beta, Long Term	48.3	pCi/L	50	900.0	2/17/2015 / 0956 / MJN
Radium-226	10.5	pCi/L	****	903.1	2/23/2015 / 1107 / MJN
Radium-228	5.7	pCi/L	****	Ra-05	2/23/2015 / 1030 / SN

NOTES

- 1 ****Radium 226 and Radium 228 combined have a reference of 5 pCi/L
- 2 Gross Alpha Detection Limit: 1.0 pCi/L; Gross Beta Detection Limit: 1.7 pCi/L
- 3 pCi/L = picocuries per liter
- 4 Radium 226 Detection Limit: 0.3 pCi/L; Radium 228 Detection Limit: 0.9 pCi/L
- 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 Subcontracted to Reference Lab #278
- 8 pH and Chlorine level tested on site

Reason for Test : Client's Information

Date Reported: 2/25/2015

FOUNTAIN VALLEY ANALYTICAL LABORATORY, INC.

1413 Old Taneytown Rd. • Westminster, MD 21158 • MD State Certification #133
(410) 848-1014 • (410) 876-4554 • FAX (410) 848-0298

VOLATILE ORGANIC WATER ANALYSIS REPORT

LAB ID # 84429

Location:	11986 Hall Shop Road Clarksville, MD 21029	Acct #:	4470
Date & Time Collected:	05/21/12 1455	Work Order #	46310
Collected by:	C. Mooshian 7268CM	Company	Williamsburg Group LLC
		Requested by	Bob Corbett
		Source:	Well, HO-95-2276
		Site:	Pump Hose
		Treatment:	None

CONTAMINANT	EPA CONT ID	MCL (PPB)	ACTUAL LEVEL	CONTAMINANT	EPA CONT ID	ACTUAL LEVEL
REGULATED				UNREGULATED		
Benzene	2990	5	ND	Bromobenzene	2993	ND
Carbon Tetrachloride	2982	5	ND	Bromochloromethane	2430	ND
o-Dichlorobenzene	2968	600	ND	Bromomethane	2214	ND
p-Dichlorobenzene	2969	75	ND	n-Butylbenzene	2422	ND
1,2-Dichloroethane	2980	5	ND	Sec-butylbenzene	2428	ND
1,1-Dichloroethene	2977	7	ND	Tert-butylbenzene	2426	ND
cis-1,2-Dichloroethene	2380	70	ND	Chloroethane	2216	ND
trans-1,2-Dichloroethene	2979	100	ND	o-Chlorotoluene	2965	ND
Dichloromethane	2964	5	ND	p-Chlorotoluene	2966	ND
1,2-Dichloropropane	2983	5	ND	m-Dichlorobenzene	2967	ND
Ethylbenzene	2992	700	ND	1,1-Dichloroethane	2978	ND
Monochlorobenzene	2989	100	ND	1,3-Dichloropropane	2412	ND
Styrene	2996	100	ND	2,2-Dichloropropane	2416	ND
Tetrachloroethene (PCE)	2987	5	ND	1,1-Dichloropropene	2410	ND
Toluene	2991	1000	ND	cis-1,3-Dichloropropene	2413	ND
1,2,4-Trichlorobenzene	2378	70	ND	trans-1,3-Dichloropropene	2413	ND
1,1,1-Trichloroethane	2981	200	ND	Dichlorodifluoromethane	2212	ND
1,1,2-Trichloroethane	2985	5	ND	Hexachlorobutadiene	2246	ND
Trichloroethene (TCE)	2984	5	ND	Isopropylbenzene	2994	ND
Vinyl Chloride	2976	2	ND	p-Isopropyltoluene	2030	ND
Xylenes (Total)	2955	10000	ND	MTBE	2251	ND
				Naphthalene	2248	ND
TRihalOMETHANES				n-Propylbenzene	2998	ND
Bromodichloromethane	2943		ND	1,1,1,2-Tetrachloroethane	2986	ND
Bromoform	2942		ND	1,1,2,2-Tetrachloroethane	2988	ND
Chloroform	2941		ND	1,2,3-Trichlorobenzene	2420	ND
Dibromochloromethane	2944		ND	Trichlorofluoromethane	2218	ND
				1,2,3-Trichloropropane	2414	ND
ADDITIONAL COMPOUNDS				1,2,4-Trimethylbenzene	2418	ND
TAME			ND	1,3,5-Trimethylbenzene	2424	ND
Chloromethane			ND	m, p-xylene	2995	ND
				o-xylene	2997	ND

NOTES:

- 1) MCL: Maximum Contaminant Level
- 2) Detection limit: 0.50 PPB (except for Xylenes, meta/para:1.0 PPB; and Xylenes total:1.5 PPB)
- 3) ND: None Detected
- 4) PPB: Parts Per Billion (micrograms per liter)
- 5) Sub-contracted to Lab #128, method EPA 524.2, Date Analyzed: 05/25/12, Time Analyzed: 2056, Tech: TMP

Date Reported: 05/30/12

Reviewed by: *C. Mooshian*

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 #: 108025 Account #: 4470
Reference: Estates @ Clarksville Lot 5 Company: Williamsburg Homes LLC
Location: 11029 Blevins Drive Requested By: Bob Corbett
Clarksville, MD 21029 Source: Well Water
Date/ Time Collected: 6/17/2016 1105 Site: Pressure Tank
Date/Time Rec'd: 6/17/2016 1340 Treatment: Softener/Reverse Osmosis**
Chlorine ppm: Free: ND Total: ND pH: 7.0
Collected By: R. Ott 4269RO Well #: HO-95-2276

PARAMETERS	RESULTS	UNITS	REFERENCE	METHOD	DATE/TIME/ANALYST
Bacteria, Coliform, Total, MPN	<1.0	MPN/ 100 ml	<1.0	SM18 9223	6/18/2016 / 1500 / BCD
Bacteria, E. coli, MPN	<1.0	MPN/ 100 ml	<1.0	SM18 9223	6/18/2016 / 1500 / BCD

NOTES

- 1 **Sample collected prior to treatment
- 2 MPN/ 100 ml = Most Probable Number [of viable bacteria] per 100 ml of sample.
- 3 Results less than or within the reference range are considered satisfactory and within potable water limits at the time of sampling.
- 4 ND:None Detected
- 5 pH & Chlorine level tested on site
- 6 Visual well check: Sealed, vented cap

Reason for Test : Use & Occupancy

Building Permit # : B15004676

Date Reported: 6/20/2016

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 #: 107798 Account #: 4470
Reference: Estates @ Clarksville Lot 5 Company: Williamsburg Homes LLC
Location: 11029 Blevins Drive Requested By: Bob Corbett
Clarksville, MD 21029 Source: Well Water
Date/ Time Collected: 6/7/2016 1220 Site: Pressure Tank
Date/Time Rec'd: 6/7/2016 1453 Treatment: **
Chlorine ppm: Free: ND Total: ND pH: 7.2
Collected By: T. Frazier 3126TF Well #: HO-95-2276

PARAMETERS	RESULTS	UNITS	REFERENCE	METHOD	DATE/TIME/ANALYST
Bacteria, Coliform, Total, MPN	2.0	MPN/ 100 ml	<1.0	SM18 9223	6/8/2016 / 0945 / LLO
Bacteria, E. coli, MPN	<1.0	MPN/ 100 ml	<1.0	SM18 9223	6/8/2016 / 0945 / LLO
Nitrate	<1.0	mg/L	10	601	6/7/2016 / 1600 / CRS
Turbidity	2.10	NTU	<10	SM18 2130B	6/7/2016 / 1615 / CRS
Sand	NS	mg/L	5	Visual/Gravimetric	6/7/2016 / 1615 / CRS

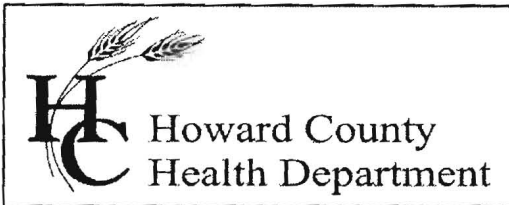
NOTES

- 1 ** Sample collected prior to Softener
- 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 NS = None Seen (NS indicates less than 5 mg/L)
- 5 NTU = Nephelometric Turbidity Units
- 6 Results less than or within the reference range are considered satisfactory and within potable water limits at the time of sampling.
- 7 ND:None Detected
- 8 pH & Chlorine level tested on site
- 9 Visual well check: Sealed, vented cap

Reason for Test : Use & Occupancy

Building Permit # : B15004676

Date Reported: 6/8/2016



Bureau of Environmental Health

8930 Stanford Blvd., Columbia, MD 21046-2147

Main: 410-313-1774 | Fax: 410-313-2648

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

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Facebook: www.facebook.com/hocohealth

Twitter: HowardCoHealthDep

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

INTERIM CERTIFICATE OF POTABILITY

Expiration Date – January 7, 2016

July 7, 2016

Homeowner
11029 Blevins Drive
Clarksville, MD 21029

RE: Blevins Property, Lot 5
11029 Blevins Drive
Building Permit: B15004⁶76
Well Permit: HO-95-2276

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 **6/20/2016**. Final approval of the well line connection to the dwelling was granted on **4/4/2016**. The well construction was completed on **5/18/2012**. Water samples were collected on **6/7/2016 & 6/16/2016**.

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 **6/26/2012**. Results showed a Radium 226 of **95.2 ± 7.3 pCi/L** and Radium 228 of **28.4 ± 2.8 pCi/L**. Radium 226 and Radium 228 results have a combined reference level of 5 pCi/L respectively which is below the targeted level. At the time of testing and with respect to these parameters, the well water is safe for all uses.

After installation of a radionuclide removal device (Reverse Osmosis), post-treatment water samples were collected on **6/17/2016** and indicated a combined Radium 226/228 level of **1.1 ± 0.0 pCi/L**.

This Department will grant a **permanent deviation** to the Interim Certificate of Potability on condition that the radionuclide removal system effectively maintains a Gross Alpha level of less than **15 pCi/L**, a Gross Beta level of less than **50 pCi/L**, and a Radium 226/228 level of less than **5 pCi/L**.

Furthermore, it will be necessary for you to comply with the following conditions:

1. The system must be properly operated and maintained continuously in accordance with the service contract for the life of the residence.

2. It is recommended that a Maryland certified water laboratory certified for radionuclide analysis perform a yearly radionuclide analysis.
3. If you decide to sell or rent your home in the future, you must make any potential buyer/tenant aware of this permanent deviation. **A person who fails to make this disclosure is subject to the penalties set out in COMAR 26.04.04.12F Enforcement and Environment Article 9-1311, Annotated Code of Maryland.**

Volatile organic compound (VOC) sample was collected on **5/21/2012** respectively. This testing was performed to establish a baseline evaluation of the well water supply in the area due to known VOC ground water contamination concerns. Results from this sampling did not show any presence of VOC contamination. With respect to the parameters and guidelines of the EPA National Primary Drinking Water Regulations, the future well water supply is currently safe for all uses.

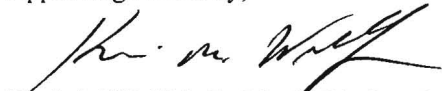
This certifies that the initial sampling requirements of COMAR 26.04.04 "Well Regulations" have been met for the water supply system installed under well permit HO-95-2276. Although the submitted sample results are in compliance with COMAR standards, the Health Department does not guarantee water supplies.

This Interim Certificate of Potability will expire **six months** from the date of issuance. Submission of a second bacteriological test as well as a post-treated iron 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.**

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 Best Available Technology (BAT) for your onsite sewage disposal. You will also find a link to Maryland Department of the Environments website which elaborates in further detail operation and maintenance of your BAT.

Approving Authority,


Kevin M Wolf, L.E.H.S., REHS/RS, Supervisor
Groundwater Management Section
Well & Septic Program

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