

C1 52149

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND WELL COMPLETION REPORT

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

1 2 3 6 (THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)

FILL IN THIS FORM COMPLETELY PLEASE TYPE

COUNTY NUMBER

ST/CO USE ONLY DATE RECEIVED

DATE WELL COMPLETED

Depth of Well

PERMIT NO. FROM "PERMIT TO DRILL WELL"

OWNER Williamsburg Group WELL SITE ADDRESS Scaggsville Rd TOWN Highland SUBDIVISION Estates @ Schoolly Mill SECTION LOT 3

WELL LOG table with columns: DESCRIPTION, FEET (FROM, TO), check if water bearing. Includes handwritten entries: Clay, Brown, Grey, Fracture, Grey.

GROUTING RECORD form with fields: WELL HAS BEEN GROUTED, TYPE OF GROUTING MATERIAL, CEMENT, BENTONITE CLAY, NO. OF BAGS, NO. OF POUNDS, GALLONS OF WATER, DEPTH OF GROUT SEAL.

CASING RECORD form with fields: casing types insert appropriate code below, MAIN CASING, Nominal diameter, Total depth.

OTHER CASING (if used) form with fields: diameter, depth.

SCREEN RECORD form with fields: screen type or open hole, insert appropriate code below.

PUMPING TEST form with fields: HOURS PUMPED, PUMPING RATE, METHOD USED TO MEASURE PUMPING RATE, WATER LEVEL, TYPE OF PUMP USED.

NUMBER OF UNSUCCESSFUL WELLS, WELL HYDROFRACTURED

DEPTH (nearest ft.) table with columns 1-21 and rows A-C-S-R-E-N. Includes SLOT SIZE and DIAMETER OF SCREEN.

PUMP INSTALLED form with fields: DRILLER INSTALLED PUMP, TYPE OF PUMP INSTALLED, CAPACITY, PUMP HORSE POWER, PUMP COLUMN LENGTH, CASING HEIGHT.

CIRCLE APPROPRIATE LETTER A, E, P

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...

DRILLERS LIC. NO., DRILLERS SIGNATURE, LIC. NO.

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

MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER) T (E.R.O.S.) W Q

LATITUDE 39.1687279 LONGITUDE 76.9510117 (DEFAULT COORD. WGS 84)

Pursuant to §10-624 of the State Govt. Article of the Maryland Code personal info. requested on this form is used in processing this form pursuant to COMAR 26.04.04. Failure to provide the info. may result in this form not being processed.

SITE SUPERVISOR (sign. of driller or journeyman responsible for sitework if different from permittee)

TELESCOPE CASING, LOG INDICATOR, OTHER DATA

COUNTY

B 1 SEQUENCE NO. (MDE USE ONLY) **56868** STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL **501520-B** please type STATE PERMIT NUMBER **Ho-17-0188** fill in this form completely

OWNER INFORMATION
 Date Received (APA) **09/11/17**
 8 MM DD YY 13
 15 Last Name **Williamsburg Group** Owner First Name **Group** 34
 36 Street or RFD **5485 Harpers Farm RD** 55
 57 Town **Columbia Md 21044** 70 State 72 Zip 76

B 3 LOCATION OF WELL
 8 COUNTY **Howard** 21
 23 SUBDIVISION **Estate at Schooly Mill** 42
 SECTION **44** 48 LOT **3** 48 50
 52 NEAREST TOWN **Highland** 71

DRILLER INFORMATION
 76 Driller's Name **Allens Compton M S D 009** License No. 81
 Firm Name **Fogles Well Drilling, LLC**
 Address **P.O. Box 202 Woodbine Md 21797**
 Signature **Allens Compton** Date **9-8-17**

B 4 SOURCES OF DRILLING WATER
 1. **Well water**
 2.
 3.
 11 STREET ADDRESS **Scaggsville Rd** 30
 ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)
 NORTH N
 WEST W
 EAST E
 SOUTH S
 34 DISTANCE FROM ROAD **100** 37 ENTER FT OR MI **FT** 88 39
 TAX MAP: **40** BLK: **11** PARCEL **93**

B 2 WELL INFORMATION
 1 2 APPROX. PUMPING RATE (GAL. PER MIN.) **5** 8 12
 AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) **500** 14 20

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL
 COUNTY NAME **Howard** COUNTY NO. **13**
 STATE SIGNATURE _____ INSERT S _____ 41
 DATE ISSUED **10/10/17** **St. Call** **10/10/17**
 43 MM DD YY 48 CO SIGNATURE EXP. DATE

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

PROPOSED LOCATION OF WELL ON LOT
 SHOW PERMANENT STRUCTURES SUCH AS BUILDINGS, SEPTIC SYSTEM, ROADS AND/OR LANDMARKS AND INDICATE NOT LESS THAN TWO DISTANCE MEASUREMENTS TO WELL
 10/23
 - at 250' 1/2 gpm
 - 65' steel casing
 - bedrock @ 51'
 10/25
 - meas 400 gal Buckets Hawk
 - collected radium
 Nais Ct, TDS sample @ 1:20 pm
 = 26' static
 - 20' meas pt.
 - started pumping @ 10 am
 - 25 bags cement

APPROXIMATE DEPTH OF WELL **300** FEET
 24 28
 APPROXIMATE DIAMETER OF WELL **6** 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 DEEPEMED 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-17-0188**
 70 71 72 73 74 75 76 77 78 79

SPECIAL CONDITIONS
 NOTE: APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED. **See attached memo.**

FIELD DATE SHEET
HOWARD COUNTY WELL YIELD TEST

Well Permit No. HO-17-0188Location of Property: Scaggsville Rd Highland, Md 20777Subdivision: Estates @ Schooly Mill Lot: 3Well Driller: Andrew Houseman Owner: Williamsburg GroupDepth of Well: 500'Distance of measuring point (M.P.) above ground: 1'Static water level (S.W.L.) below M.P.: 26'

High rate pumping –reservoir Drawdown

Time pump started: 10:00 Pumping rate: 12 gpmTotal time 60 Mins to reach pumping water level 343ft. 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)
10:00	26'	5 Seconds		12 gpm
10:15	123'	5		12 gpm
10:30	230'	5		12 gpm
10:45	287'	7 Seconds		8.5 gpm
11:00	343'	40 Seconds		1.5 gpm
11:15	341'	40		1.5 gpm
11:30	340'	40		1.5 gpm
11:45	338'	40		1.5 gpm
12:00	336'	40		1.5 gpm
12:15	334'	40		1.5 gpm
12:30	332'	40		1.5 gpm
12:45	332'	40		1.5 gpm
1:00	331'	40		1.5 gpm
1:15	329'	40		1.5 gpm
1:30	328'	40		1.5 gpm
1:45	327'	40		1.5 gpm
2:00	326'	40		1.5 gpm
2:15	326'	40		1.5 gpm
2:30	325'	40		1.5 gpm
2:45	324'	40		1.5 gpm
3:00	323'	40		1.5 gpm
3:15	322'	40		1.5 gpm
3:30	321'	40		1.5 gpm
3:45	320'	40		1.5 gpm
4:00	319'	40		1.5 gpm
4:15	318'	40		1.5 gpm
4:30	317'	40		1.5 gpm
4:45	316'	40		1.5 gpm
5:00	315'	40 Seconds		1.5 gpm

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

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 Pump & Water Treatment LLC Telephone #: 410 795 5676
Address: 1580 Obrecht Rd
Sylkesville MD 21784

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 Group Telephone #: _____
Subdivision: P54D Schooley mill Lot #: 3 Well Tag #: HO-17-0188
Site Address: 7418 Haven Ct
Highland, MD 20777

07/10/2020

Submersible Pump Data

Make: Grundfos
Model #: 7MS10VZ2
Pump Capacity: 7
Well Yield: 1.5
Depth of well encountered at time of pump installation: 500 (feet)

Pitless Adapter

Make: Campbell +
Model#: NA
GPM Depth: 36' (36" min)
GPM NSF/WSC approved: Y

Well Cap and Electric Conduit

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

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

Must circle one: Torque arrestors / Cable guards / Other acceptable method used

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

Piping to house

Type: 1" PEX pipe
PSI: 200 (160 psi min)
Depth of supply line: 36" (36" min)

House Connection

PVC sleeve to undisturbed soil at wall penetration: Y
Length of sleeve (5' minimum from foundation): 10'
Sleeve sealed properly: Y

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: [Signature] date: 7/10/2020

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

Date Insp. Requested: 07/10/2020 Date Insp. Approved: 07/10/2020 Inspector: _____
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

Y 07/10/2020
Y 07/10/2020
Y 07/10/2020
Y
Y
Y

(Revised form 10/24/2018)

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

INTERIM CERTIFICATE OF POTABILITY

Expiration Date – MAY 25, 2021

November 25, 2020

Homeowner
7418 Haven Court
Clarksville, MD 21029

RE: Est. @ Schooley Mill, Lot 3
7418 Haven Court
Building Permit: B19003085
Well Permit: HO-17-0188

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 **11/13/2020**. Final approval of the well line connection to the dwelling was granted on **7/10/2020**. The well construction was completed on **10/25/2017**. Water samples were collected on **11/5/2020**.

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 **11/18/2020**. Results showed a Gross Alpha level of **9.7 ± 0.0 pCi/L** and **Gross Beta** level of **12.2 ± 0.0 pCi/L**. The Gross Alpha was below the maximum contaminant level (MCL) of 15 pCi/L and the Gross Beta was below the target level of 50pCi/L (roughly equivalent to the annual dose rate of 4 millirems per year). In addition, Radium samples were also collected on 7/31/2007. Results showed a combined radium 226/228 level of **1.7 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-17-0188. 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.**



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

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,

A handwritten signature in black ink, appearing to read 'Kevin M. Wolf', is written over a light blue horizontal line.

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

Send Report To: Bert Nixon

State of Maryland
DHMH - Laboratories Administration
Division of Environmental Sciences

TRACE METALS LABORATORY

1770 Ashland Avenue
Baltimore, Maryland 21205

Howard County Health Dept
Bureau of Environmental Health
8930 Stanford Blvd
Columbia, MD 21045



E18001689001

Received: 10/26/2017

Metals

HO-17-0188

LABORATORY ANALYSIS REQUEST

Do not write above this line

Please Print

Sample ID No: HO-17-0188 Site Name: Estates @ Schooley Mill ^{lot 3} County: Howard

Sample Source: Scaggsville Rd. Highland Collector: S. Collins
Street Town or City Name

Date Collected: 10/25/2017 Time Collected: 1:20 a.m. p.m. Phone #: 410-313-6287

Sample Preserved By: Field ESRL WMRL Central Lab
Preservative Used: HNO₃ ml pH

Sample Type: Drinking Water Landfill Source (Raw Water) Liquid
Data Category: Community Stream Distribution (Treated) Solid
Code Non-Community Sediment Other
 Private

Specify Program: SDWA NPDES CWA RCRA Consumer Products Other

Type of Sample Preparation: Total Metals Total Metals TCLP Dissolved Metals
(field preparation required)

Remarks: Sample collected during yield test.

✓	Element	Lab Use	✓	Element	Lab Use	✓	Element	Lab Use
	Antimony (Sb)			Aluminum (Al)			Uranium (U)	
	Arsenic (As)			Calcium (Ca)			Vanadium (V)	
	Barium (Ba)			Cobalt (Co)			Zinc (Zn)	
	Beryllium (Be)			Copper (Cu)				
	Cadmium (Cd)			Iron (Fe)				
	Chromium (Cr)			Lead (Pb)				
	Mercury (Hg)			Magnesium (Mg)				
	Nickel (Ni)			Manganese (Mn)				
	Selenium (Se)			Molybdenum (Mo)				
✓	Sodium (Na)	S45		Potassium (K)				
	Thallium (Tl)			Silver (Ag)				

Lab Supervisor: _____ Date Reported: ____/____/____

Phone: (443) 681 - 4596

Fax: (443) 681 - 4507



State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
TRACE METALS LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director



Certificate of Analysis

HOWARD CO ENVIRONMENTAL HLTH
8930 STANFORD BLVD
COLUMBIA, MD 21045

Lab Project No: E18001689 Date Coll.: 10/25/2017 Date Received: 10/26/2017 Submitted By: Collins

Field ID: HO-17-0188
Lab No.: E18001689001

<u>Method</u>	<u>Element</u>	<u>Result</u>	<u>Units</u>	<u>Date Analyzed</u>
EPA 200.7	Sodium	9.96	ppm	10/26/2017

Comments:

Approved by:

Yungso Choi

Approval date: 10/30/2017

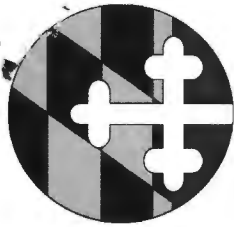
**The following methods are included in our A2LA Scope of Accreditation: EPA 200.7, EPA 200.8, EPA 245.1.

This document contains confidential health information that is privileged, confidential and exempt from disclosure under law. If you have received this information in error, please call (410) 767-6944 and arrange for return or destruction.

Telephone: (443) 681 - 3853

Fax: (443) 681-4507

S:\EnviroFinal-Metals.rpt



State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
INORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director



Certificate of Analysis

HOWARD CO ENVIRONMENTAL HLTH
8930 STANFORD BLVD
COLUMBIA, MD 21045

Lab Project NoE18001683 Date Coll. 10/25/2017 Date Received 10/26/2017 Submitted By:Collins

Field ID: HO-17-0188
Lab No.: E18001683001

<u>Analyte</u>	<u>Method</u>	<u>Result</u>	<u>Units</u>	<u>Date Analyzed</u>
Chloride	SM 4500-Cl E	98	mg/L	10/27/2017
Total Dissolved Solids	SM 2540C	354	mg/L	10/30/2017

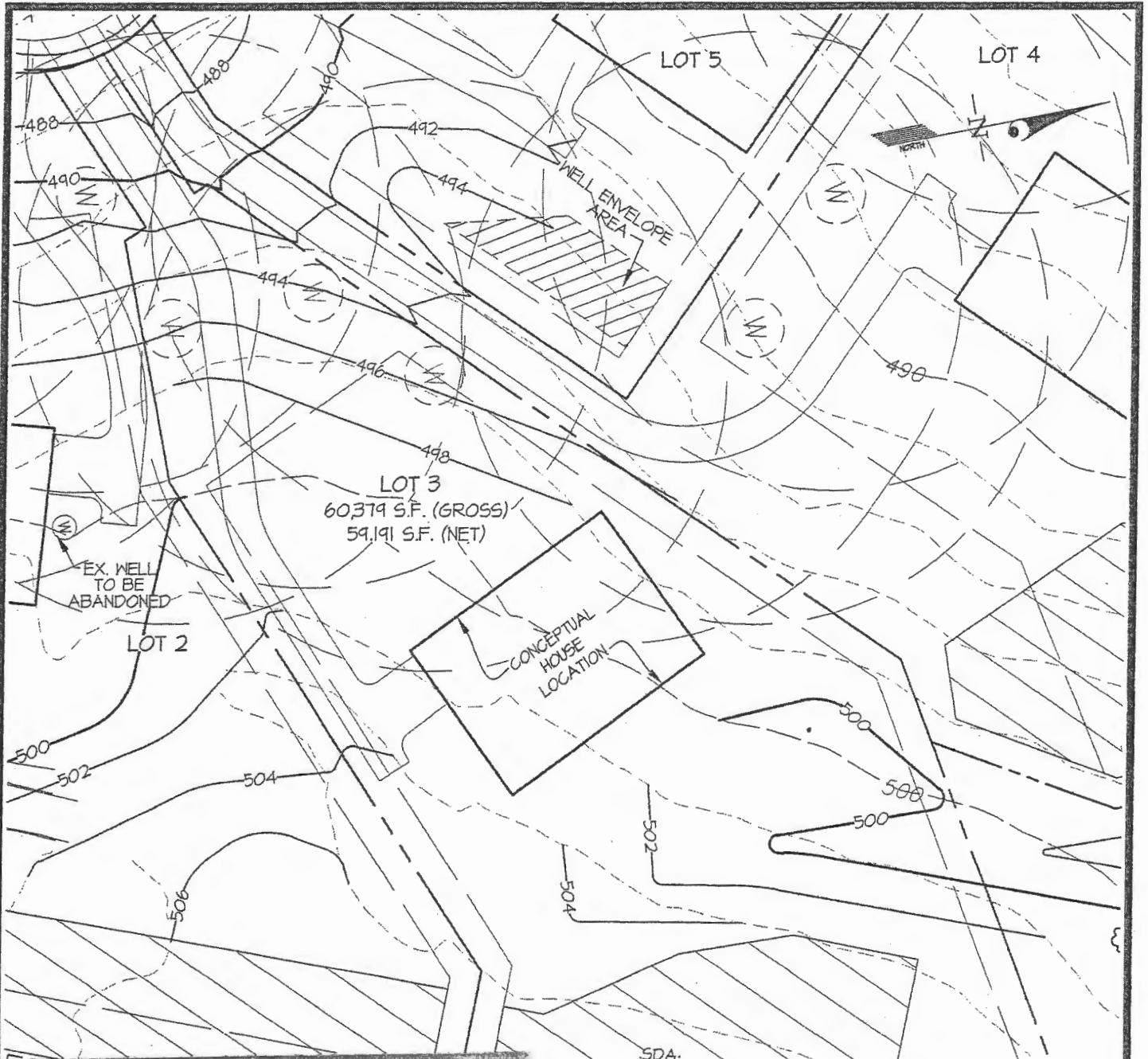
Comments:

Approved by: *Shahin Aneli*

Approval date: 11/07/2017

*The following methods are included in our A2LA Scope of Accreditation: EPA150.1, EPA 353.2, EPA 375.2, SM4500F C, SM 4500-CN G & QCM-CN, QCM-CN.

This document contains confidential health information that is privileged, confidential and exempt from disclosure under law. If you have received this information in error, please call (410) 767-6190 and arrange for return or destruction.



11/15/17
 11/15/17
 11/15/17

DO NOT REMOVE THIS TAG
 DEPARTMENT OF THE ENVIRONMENT
 WELL PERMIT NUMBER
HO-17-0188
 INFORMATION-GIVE NUMBER AND WRITE
 1800 WASHINGTON BLVD
 BALTIMORE MARYLAND 21230

SDA: 10,007 S.F.
 Well sites approved
 10/10/17 SC
 Well sites staked by GLW
 N 21°56'56" E
 1345.33'

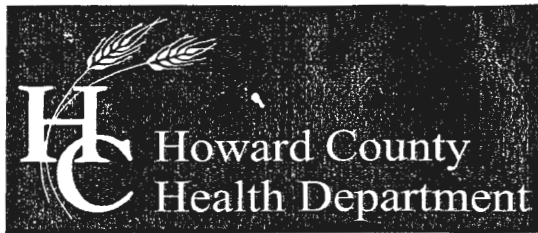
**ESTATES AT SCHOOLEY MILL
 LOT 3**

GLW GUTSCHICK LITTLE & WEBER, P.A.
 CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS
 3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK
 BURTONSVILLE, MARYLAND 20865
 TEL: 301-421-4024 BAL: 410-880-1820 DC/VA: 301-989-2524 FAX: 301-421-4186

DES. dds
 DRN. gt
 CHK.

PREPARED FOR :
 WILLIAMSBURG GROUP, LLC
 5485 HARPERS FARM RD., SUITE 200
 COLUMBIA, MD 21044
 ATTN.: BOB CORBETT
 410-997-8800

G. L. W. No.	14067
ZONING	RR-DEO
TAX MAP/GRID	40-11
DATE	SEPTEMBER, 2017
SCALE	1"=50'
SHEET	1 OF 1



Bureau of Environmental Health

8930 Stanford Blvd, Columbia, MD 21045
Main: 410-313-2640 | Fax: 410-313-2648
TDD 410-313-2323 | Toll Free 1-866-313-6300
www.hchealth.org

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

MEMORANDUM

DATE: October 10, 2017

TO: Allen Compten (MSD 009)
Fogle's Well Drilling

FROM: Sarah Collins, L.E.H.S. SEC
Howard County Health Department

RE: Estates at Schooley Mill
Well Permits

Please note the following special conditions for the wells at the Estates at Schooley Mill:

1. All wells require 50' of steel casing or 10' into competent bedrock,* whichever is deeper.
2. All wells require a radium sample at the yield test.
3. Wells on lots 1 and 2 require volatile organic compounds (VOCs) sampling at the yield test.
4. Wells on lots 1, 3, 4, 7, and 9 require sodium, chloride, and total dissolved solids (TDS) sampling at the yield test.

Cc: File

Hinkle
Property

FILE INQUIRY NOTES

Lot 3

DATE	RESULTS OF REVIEW FOR FILE
7/27/15	The Well installed on this lot must have steel casing installed to at least 50 feet depth, OR 10 feet into competent bedrock, WHICHEVER IS DEEPER.

10/11/17 Discussed special conditions on well permit with Allen Compton via phone. (SC)

R Buckner

7/27/15	The Septic System on this Lot must include a BAT unit and all drain fields (any) must have LPD design or equivalent
---------	---

R Buckner

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 #: 141029 Account #: 4470
Reference: Schooley Mill Lot 3 Company: Williamsburg Homes LLC
Location: 7418 Haven Court Requested By: Bill McBride
Highland, MD 20777 Source: Well Water
Date/ Time Collected: 11/5/2020 1215 Site: Pressure Tank
Date/Time Rec'd: 11/5/2020 1345 Treatment: None
Chlorine ppm: Free: ND Total: ND pH: 6.6
Collected By: J. Yeager 0819JY Well #: HO-17-0188

PARAMETERS	RESULTS	UNITS	REFERENCE	METHOD	DATE/TIME/ANALYST
Bacteria, Coliform, Total, MPN	<1.0	MPN/ 100 ml	<1.0	SM20 9223B	11/6/2020 / 0900 / LLO
Bacteria, E. coli, MPN	<1.0	MPN/ 100 ml	<1.0	SM20 9223B	11/6/2020 / 0900 / LLO
Nitrate	2.55	mg/L	10	601	11/6/2020 / 0845 / CRS
Turbidity	2.78	NTU	<10	SM20 2130B	11/6/2020 / 1005 / CRS
Sand	ND	mg/L	5	Visual/Gravimetric	11/6/2020 / 1005 / 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 NTU = Nephelometric Turbidity Units
- 4 Results less than or within the reference range are considered satisfactory and within potable water limits at the time of sampling.
- 5 ND:None Detected
- 6 Visual well check: Sealed, vented cap: Cap Appeared Satisfactory
- 7 pH & Chlorine level tested on site

Reason for Test : Use & Occupancy**Building Permit # :** B19003085Date Reported: 11/6/2020

FOUNTAIN VALLEY ANALYTICAL LABORATORY, INC.

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

REPORT OF ANALYSIS

Laboratory ID #: 141306 Account #: 4470
Reference: Schooley Mill Lot 3 Company: Williamsburg Homes LLC
Location: 7418 Haven Court Requested By: Bill McBride
Highland, MD 20777 Source: Well Water
Date/ Time Collected: 11/18/2020 1300 Site: Pressure Tank
Date/Time Rec'd: 11/18/2020 1530 Treatment: None
Chlorine ppm: Free: ND Total: ND pH: 6.4
Collected By: J. Yeager 0819JY Well #: HO-17-0188

PARAMETERS	RESULTS	UNITS	REFERENCE	METHOD	DATE/TIME/ANALYST
Gross Alpha, Short Term	9.7	pCi/L	15	900.0	11/21/2020 / 0943 / MJN
Gross Beta, Short Term	12.2	pCi/L	50	900.0	11/21/2020 / 0943 / MJN

NOTES:

- 1 Gross Alpha Detection Limit: 1.4 pCi/L; Gross Alpha Error: +/- 1.7 pCi/L
- 2 Gross Beta Detection Limit: 1.0 pCi/L; Gross Beta Error: +/- 1.0 pCi/L
- 3 pCi/L = picocuries per liter
- 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: Cap Appeared Satisfactory
- 8 pH & Chlorine level tested on site

Reason for Test : Use & Occupancy
Building Permit # : B19003085

Date Reported: 11/25/2020

FOUNTAIN VALLEY ANALYTICAL LABORATORY, INC.

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

REPORT OF ANALYSIS

Laboratory ID #: 141326 Account #: 4470
Reference: Schooley Mill Lot 3 Company: Williamsburg Homes LLC
Location: 7418 Haven Court Requested By: Bill McBride
Highland, MD 20777 Source: Well Water
Date/ Time Collected: 11/19/2020 1412 Site: Kitchen Point of Use R/O Tap
Date/Time Rec'd: 11/19/2020 1525 Treatment: **
Chlorine ppm: Free: ND Total: ND pH: 7.0
Collected By: J. Yeager 0819JY Well #: HO-17-0188

PARAMETERS	RESULTS	UNITS	REFERENCE	METHOD	DATE/TIME/ANALYST
Gross Alpha, Long Term	<1.3	pCi/L	15	900.0	12/2/2020 / 0624 / MJN
Gross Beta, Long Term	7.1	pCi/L	50	900.0	12/2/2020 / 0624 / MJN
Radium-226	0.6	pCi/L	****	903.1	11/3/2020 / 0945 / MJN
Radium-228	<1.0	pCi/L	****	Ra-05	12/2/2020 / 0936 / SN

NOTES:

- ****Radium 226 and Radium 228 combined have a reference of 5 pCi/L
- Long Term Gross Alpha Detection Limit: 1.3 pCi/L; Gross Alpha Error: +/- 0.9 pCi/L
- Long Term Gross Beta Detection Limit: 1.5 pCi/L; Gross Beta Error: +/- 1.2 pCi/L
- pCi/L = picocuries per liter
- pH & chlorine tested on site
- Radium 226 Detection Limit: 0.2 pCi/L; Radium 226 Error: +/- 0.3 pCi/L
- Radium 228 Detection Limit: 1 pCi/L; Radium 228 Error: +/- 0.6 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
- Visual well check: Sealed, vented cap: Cap Appeared Satisfactory
- **Reverse Osmosis/Softener/Neutralizer

Reason for Test : Use & Occupancy
Building Permit # : B19003085

Date Reported: 12/4/2020

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

February 20, 2018

Williamsburg Group, LLC
5485 Harpers Farm Road
Columbia, MD 21044

Re: Water sample results for Estates at Schooley Mill – Lot 3

Dear Homeowner,


The Health Department received results from the testing for sodium, chloride, and total dissolved solids (TDS) from the well on this lot.

Elevated sodium levels in drinking water may affect individuals on low-salt diets. The action level for sodium is 20 milligrams per liter (mg/L); **sodium from the well measured 9.96 mg/L pre-treatment.**

Chloride and TDS are both considered secondary contaminants, meaning high concentrations may affect taste, color, odor, or corrosive properties of water but present no risk to health. The secondary maximum contaminant level for chloride is 250 mg/L; **chloride from the well measured 98 mg/L.** The secondary maximum contaminant level for TDS is 500 mg/L; **TDS from the well measured 354 mg/L.**

Feel free to contact me at the number or email below with any questions regarding the results of water sampling.

Sincerely,



Sarah Collins, L.E.H.S.
Howard County Health Department
Well & Septic Program
SCollins@howardcountymd.gov
410-313-6287

*Cc: Community Hygiene Program
File*