

C1 51188 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

ST/CO USE ONLY DATE RECEIVED DATE WELL COMPLETED

Depth of Well 400 (TO NEAREST FOOT)

PERMIT NO. FROM "PERMIT TO DRILL WELL" 40-17-0192

OWNER Vauter Ellen M, Michael A et al

WELL SITE ADDRESS 14170 Triadelphia Rd TOWN Dayton MD

SUBDIVISION Vauter property SECTION LOT 2

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	
Top Soil	0	2	
Brown Silt	2	10	
Broken gravel	10	12	
Brown Silt	12	30	
Grey mica	30	400	

Water Zones 62-16pm 250-18pm

Unsuccessful Well Abandonment - 31 bags cement up to 12' below ground surface Backfilled w/ cuttings from 12' below ground surface to surface elevation

GROUTING RECORD

WELL HAS BEEN GROUTED (Circle Appropriate Box) YES Y NO N

TYPE OF GROUTING MATERIAL (Circle one) CEMENT CM BENTONITE CLAY BC

NO. OF BAGS 12 NO. OF POUNDS 1128

GALLONS OF WATER 12

DEPTH OF GROUT SEAL (to nearest foot) from 0 ft. to 52 ft.

CASING RECORD

ST STEEL CO CONCRETE PL PLASTIC OT OTHER

MAIN CASING TYPE ST Nominal diameter top (main) casing (nearest inch) 6 Total depth of main casing (nearest foot) 55

OTHER CASING (if used) diameter inch depth (feet) from to

C3

PUMPING TEST

HOURS PUMPED (nearest hour) 6

PUMPING RATE (gal. per min.) 2.8

METHOD USED TO MEASURE PUMPING RATE 1 gal Bucket

WATER LEVEL (distance from land surface) BEFORE PUMPING 11 ft. WHEN PUMPING 147 ft.

TYPE OF PUMP USED (for test) A air P piston T turbine C centrifugal R rotary O other J jet S submersible

SCREEN RECORD

screen type or open hole ST STEEL BR BRASS PL PLASTIC HO OPEN HOLE OT OTHER

DEPTH (nearest ft.) 40 52 400

SLOT SIZE 1 2 3

DIAMETER OF SCREEN (NEAREST INCH) from to

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 36

PUMP HORSE POWER 37 41

PUMP COLUMN LENGTH (nearest ft.) 43 47

CASING HEIGHT (circle appropriate box and enter casing height) 49 above LAND SURFACE 3 (nearest foot) below

NUMBER OF UNSUCCESSFUL WELLS: 1

WELL HYDROFRACTURED YES Y NO N

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. MWD 572

DRILLERS SIGNATURE

LIC. NO. WRD 064

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

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

TELESCOPE CASING LOG INDICATOR OTHER DATA

LATITUDE 39.225452

LONGITUDE 77.003567

(DEFAULT COORD. WGS 84)

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SEQUENCE NO.
(MDE USE ONLY)STATE OF MARYLAND
APPLICATION FOR PERMIT TO DRILL WELL

please type

HO-17-0197

fill in this form completely

Date Received (APA)

09/21/17

OWNER INFORMATION

8 13

Vawter, Ellen M, Michael A Etna

14170 Triadelphia Mill Rd.

Dayton MD 21036

DRILLER INFORMATION

Samuel A Connolly MWD 572

Connolly & Associates, Inc.

1513 Tico Dr, Frederick, MD 21704

Samuel A Connolly 9/21/17

WELL INFORMATION

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

AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) 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

APPROXIMATE DEPTH OF WELL

400 FEET

APPROXIMATE DIAMETER OF WELL

6 INCH

METHOD OF DRILLING (circle one)

BORED (or Augered)

JETTED

Jettied & DRIVEN

AIR-ROTARY

AIR-PERCUSSIVE

ROTARY (Hydraulic Rotary)

CABLE

Reverse-ROTARY

Drive-POINT

other

REPLACEMENT OR DEEPENEED WELLS
(CIRCLE APPROPRIATE BOX)☒ THIS WELL WILL NOT REPLACE AN EXISTING WELL☐ THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED☐ 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 DEEPEEN AN EXISTING WELL

PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPENEED (IF AVAILABLE) 41

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

APPROP. PERMIT NUMBER

G

PERMIT NO. HO-17-0197

SPECIAL CONDITIONS

NOTE: APPROVING AUTHORITIES SHOULD USE SEPARATE SHEETS IF NEEDED

* SEE ATTACHED MEMO *

B 3

LOCATION OF WELL

Howard

Vawter Property

SECTION 44 46 LOT 40 50

Dayton

B 4

SOURCES OF DRILLING WATER

1. Private

2.

3. 10/26/2017

56' steel casing - just set casing

318' 10"

56' 6"

60' + drilling

10/27/2017

Howard

14170 Triadelphia Mill Rd.

ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)



DISTANCE FROM ROAD

445

ENTER FT OR MI

TAX MAP: 0027 BLK: PARCEL 0068

NOT TO BE FILLED IN BY DRILLER
HEALTH DEPARTMENT APPROVAL

COUNTY NAME

COUNTY NO. 13

STATE SIGNATURE

DATE ISSUED

10/10/17

CO SIGNATURE

EXP. DATE: 10/10/18

10/26/2017

11/9/2017

11/14/2017

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

277174 Proposed Septic

Existing House 14170 Triadelphia Mill Rd.

250'

37'

445'

TRIADAPLHIA MILL RD

11/14/2017

Samples collected

Na, Cl, TDS

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Well Drilling Record		
Project Name	Vawter Property	
Well Designation and Location	14170 Truxedo Plaza Rd. Dayton	
Drilling Contractor	Connelly & Associates	
Drilling Method(s)	Air Rotary	
Boring Depth and Diameter	400 6 1/8	
Drilling Completion Date		
Grout	Tremie Grout w/ portland cement	
Static Water Level	11'	
Yield Test		
Time	GPM	Water Level
7:30	2.8	148
7:45	2.8	148
8:00	2.8	148
8:15	2.8	148
8:30	2.8	148
8:45	2.8	147
9:00	2.8	147
9:15	2.8	146
9:30	2.8	146
9:45	2.8	147
10:00	2.8	147
10:15	2.8	147
10:30	2.8	147
10:45	2.8	146
11:00	2.8	146
11:15	2.8	147
11:30	2.8	146
11:45	2.8	147
12:00	2.8	147
12:15	2.8	148
12:30	2.8	147
12:45	2.8	147
1:00	2.8	147
1:15	2.8	147
1:30	2.8	147

pump Set 220'

Draw down From 6:45 - 7:30

Test pumped by

Jerry Henning



Draw down
Time Depth (water level)
6:45 11'
7:00 61'
7:15 106'

10 gpm - pumping rate for draw down

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: NATIONAL WATER Telephone #: _____
Address: _____

(Must circle one) Licensed Plumber Licensed Well Driller Licensed Well Pump Installer

License # and name of individual responsible for the field installation:

Name (Print): _____ License# _____

***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: _____ Telephone #: _____
Subdivision: VAWTER Lot #: 2 Well Tag #: HO - 17 - 0197
Site Address: _____

Submersible Pump Data

Make: _____
Model #: _____
Pump Capacity _____
Well Yield: _____
Depth of well encountered at time of pump installation: _____ (feet)

Pitless Adapter

Make: _____ +
Model#: _____
GPM Depth: _____ (36" min)
GPM 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: _____

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

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

Piping to house

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

House Connection

PVC sleeve to undisturbed soil at wall penetration: _____
Length of sleeve (5' minimum from foundation): _____
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

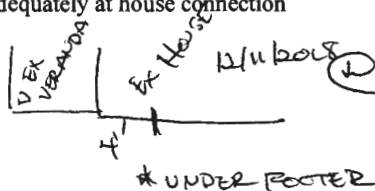
Date Insp. Requested: 12/11/2018 Date Insp. Approved: 12/11/2018 Inspector: [Signature]

Inspection Data: Pitless adapter watertight & water supply line at least 36" below grade [Checkmark]

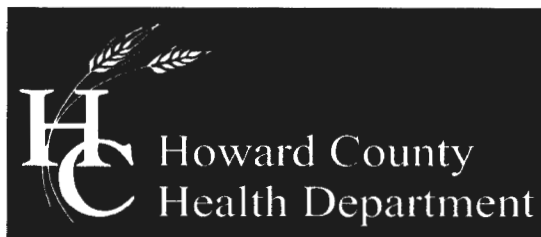
- Two piece cap installed and attached to casing securely [Checkmark]
- Elec. conduit extends at least 18" below grade/attached to cap properly [Checkmark]
- Safety rope not outside of well cap/casing [Checkmark]
- Correct well tag attached properly and casing 8" above finished grade [Checkmark]
- Water supply line sleeved adequately at house connection [Checkmark]

Adequate grout observed below pitless adapter [Checkmark]

(Revised form 10/24/2018)



51" 12/11/2018 [Signature]
4" 12/11/2018 [Signature]
19" 12/11/2018 [Signature]



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

TO: Connelly & Associates, Inc.

FROM: Ryan Rappaport, L.E.H.S.
Well and Septic Program 

DATE: October 4, 2017

RE: **SPECIAL CONDITIONS: Vawter Property Well Permits**

There are special conditions for all three well permits associated with the Vawter Property. See specific requirements below for each lot.

LOT 1

- The existing well on Lot 1 must be abandoned and sealed after the establishment of the replacement well.
- The replacement well on Lot 1 must be at least 200 feet from the sewage disposal area on **14190 Triadelphia Mill Road (Tax Map 27, Parcel 52).**
- The replacement well on Lot 1 must be drilled using steel casing that extends to at least 50 feet depth or 10 feet into competent bedrock, whichever is deeper.
- The replacement well on Lot 1 will require TDS, sodium and chloride water samples during the yield test.

LOT 2

- The well on Lot 2 must be drilled using steel casing that extends to at least 50 feet depth or 10 feet into competent bedrock, whichever is deeper.
- The well on Lot 2 must have casing extending to at least 24 inches above grade and shall be fitted with a flood resistant well cap.
- The well on Lot 2 will require TDS, sodium and chloride water samples during the yield test.

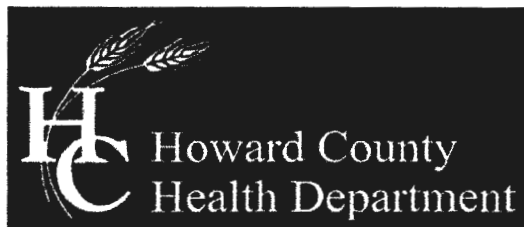
LOT 3

- The well on Lot 3 must be drilled using steel casing that extends to at least 50 feet depth or 10 feet into competent bedrock, whichever is deeper.
- The well on Lot 3 must have casing extending to at least 24 inches above grade and shall be fitted with a flood resistant well cap.
- The well on Lot 3 will require TDS, sodium and chloride water samples during the yield test.

All drilling, grouting and yields must be called into the Health Department for inspection. Call 410-313-1771 for scheduling.

Feel free to contact me with any questions at 410-313-1781 or RRappaport@howardcountymd.gov.

Cc: File



Bureau of Environmental Health

8930 Stanford Boulevard, Columbia, MD 21045

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

Dr. Maura J. Rossman, M.D., 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:

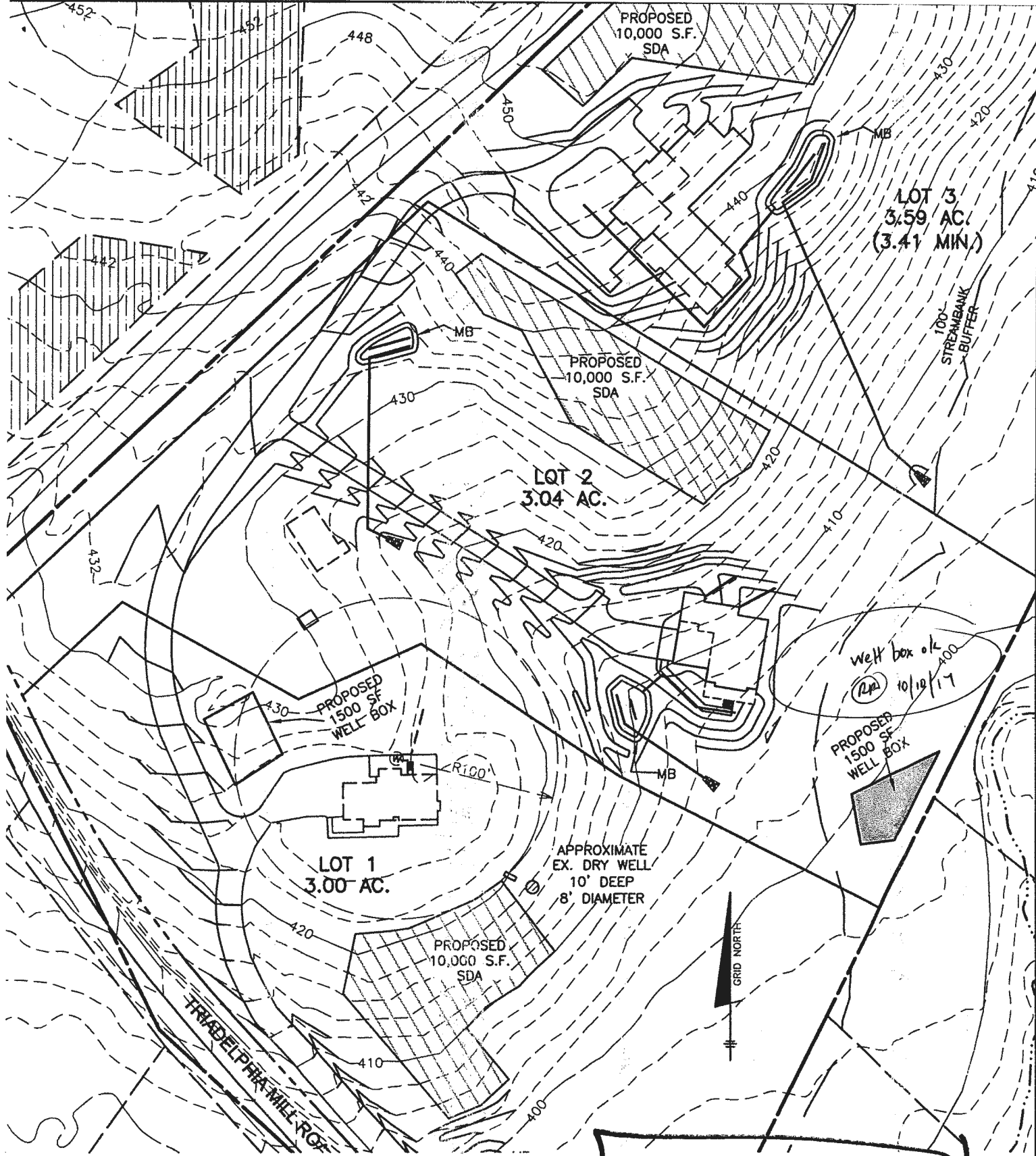
Well Site Location:

<u>Vawter Property</u>	<u>1-3</u>	<u>Thadephia Mill Rd</u>
Subdivision/Property Name	Lot #	Road Name

☒ The well site has been staked by Benchmark Engineering, Inc.
(professional land surveyor or company employing professional land surveyors)
on 9/27/17 (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.



BENCHMARK

ENGINEERS ▲ LAND SURVEYORS ▲ PLANNERS

ENGINEERING, INC.

8480 BALTIMORE NATIONAL PIKE ▲ SUITE 315 ▲ ELLICOTT CITY, MARYLAND 21043
(P) 410-465-8105 (F) 410-465-8644

WWW.BEL-CIVIL-ENGINEERING.COM

J:\2766 VAWTER PROPERTY.dwg\7094 Well Location Plan.dwg, 07/27/2017 10:55:01 AM, Kycocera CS 3051 d KXpr3

H0-17-0197

WELL EXHIBIT LOT 2
VAWTER PROPERTY

SCALE: 1" = 80'

INTERIM CERTIFICATE OF POTABILITY

Expiration Date – October 26, 2019

April 26, 2019

Homeowner
14174 Triadelphia Mill Road
Clarksville, MD 21029

**RE: Vawter Property, Lot 2
14174 Triadelphia Mill Road
Building Permit: B18000794
Well Permit: HO-17-0197**

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 4/23/2019. Final approval of the well line connection to the dwelling was granted on 12/11/2018. The well construction was completed on 11/09/2017. Water samples were collected on 3/26/2019, 4/15/2019 & 4/17/2019.

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. 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-17-0197. 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.**

Please contact (410) 313-1773 to schedule a final water sample appointment or contact a Maryland certified water 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>

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

In closing, please refer to our "Homeowner Fact Sheet" which illustrates a better understanding for your Onsite Sewage Disposal System. You will also find a link to Maryland Department of the Environments website which describes in further detail operation and maintenance of your septic system.

Approving Authority,

Hank Oswald

Hank Oswald, LEHS
Well & Septic Program

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

MARYLAND DEPARTMENT OF THE ENVIRONMENT, WATER MANAGEMENT ADMINISTRATION
1800 Washington Blvd., Baltimore, Maryland 21230 (410) 537-3784

WATER WELL ABANDONMENT-SEALING REPORT FORM

SUBMIT COPIES OF COMPLETED FORM TO:

- * COUNTY ENVIRONMENTAL AGENCY (contact MDE, WMA if address needed)
- * WELL OWNER
- * MDE, WATER MANAGEMENT ADMINISTRATION; WELL PROGRAM

DATE WELL ABANDONED: 11/9/2017 (month/day/year)

* PERMIT NUMBER OF ABANDONED WELL (if any)

HO - 17 - 0197

* PERMIT NUMBER OF REPLACEMENT WELL:

HO - 17 - 0197

* PERSON ABANDONING WELL: Samuel Connelly

WELL DRILLER'S LICENSE NUMBER: 572

CIRCLE: MWD / MSD / MGD

* OWNER'S NAME: Ellen M, Michael A. Etal. Vawter

* WELL LOCATION:

COUNTY: Howard

NEAREST TOWN: Dayton

TAX MAP 0027 BLOCK PARCEL 0068

SUBDIVISION: Vawter Property

SECTION: LOT:

STREET ADDRESS: 14170 Triadelphia Rd., Dayton, MD

LATITUDE 39.225388

LONGITUDE 77.603506

SITE LOCATION MAP



LOG OF SEALING MATERIAL

MATERIAL	FEET	
	FROM	TO
<u>Cottmays</u>	<u>0</u>	<u>12</u>
<u>Portland</u>	<u>12</u>	<u>500</u>
<u>Neat Cement</u>		
VOLUME OF MATERIAL USED		
<u>735 gal.</u>		

* TYPE OF WELL BEING ABANDONED:

- ☒ DRILLED ☐ JETTED
- ☐ BORED ☐ HAND DUG
- ☐ OTHER (specify) _____

* USE CODE:

- ☒ DOMESTIC ☐ MUNICIPAL/PUBLIC
- ☐ IRRIGATION ☐ INDUSTRIAL
- ☐ TEST/OBSERVATION ☐ GEOTHERMAL

* TYPE OF CASING:

- ☒ STEEL ☐ PLASTIC
- ☐ CONCRETE ☐ OTHER (specify) _____

SIZE OF CASING: 6 INCHES IN DIAMETER

DEPTH OF WELL: 500 FEET DEEP

WAS ANY CASING REMOVED? ☒ YES ☐ NO

If yes, length removed, in feet: 15' of 10"

WAS CASING RIPPED OR PERFORATED? ☐ YES ☒ NO

SIGNATURE-MASTER WELL DRILLER OR SUPERVISING SANITARIAN LICENSE#

572

MWD / MSD / MGS

CIRCLE ONE

DATE

12/7/17

COUNTY

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#1

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 #: 129241 Account #: 3123
 Reference: Rivas Group Lot 2 Company: National Water Servicing
 Location: 14174 Triadelphia Mill Road Requested By: Dave Rycke
 Dayton, MD 21036 Source: Well Water
 Date/ Time Collected: 3/26/2019 1410 Site: Pressure Tank
 Date/Time Rec'd: 3/26/2019 1516 Treatment: Prior to Sediment Filter
 Chlorine ppm: Free: ND Total: ND pH: 7.2
 Collected By: R. Ott 4269RO Well #: HO-17-0197

PARAMETERS	RESULTS	UNITS	REFERENCE	METHOD	DATE/TIME/ANALYST
Bacteria, Coliform, Total, MPN	4.2	MPN/ 100 ml	<1.0	SM20 9223B	3/27/2019 / 1015 / CRS
Bacteria, E. coli, MPN	<1.0	MPN/ 100 ml	<1.0	SM20 9223B	3/27/2019 / 1015 / CRS
Nitrate	0.4	mg/L	10	EPA 300.0	3/27/2019 / 2318 / SES
Turbidity	13.0	NTU	<10	SM20 2130B	3/27/2019 / 1615 / RER
Sand	NS	mg/L	5	Visual/Gravimetric	3/26/2019 / 1615 / RER

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 Nitrate Detection Limit: 0.2 mg/L
 - 4 Nitrate Sub-contracted to Reference Lab #192
 - 5 NS = None Seen (NS indicates less than 5 mg/L)
 - 6 NTU = Nephelometric Turbidity Units
 - 7 Results less than or within the reference range are considered satisfactory and within potable water limits at the time of sampling.
 - 8 ND:None Detected
 - 9 Visual well check: Sealed, vented cap
 - 10 pH & Chlorine level tested on site
- Reason for Test : Use & Occupancy
 Building Permit # : B18000794

Date Reported: 3/28/2019

#2

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 #:	129581	Account #:	3123
Reference:	Rivas Group Lot 2	Company:	National Water Servicing
Location:	14174 Triadelphia Mill Road Dayton, MD 21036	Requested By:	Dave Rycke
Date/ Time Collected:	4/15/2019 1225	Source:	Well Water
Date/Time Rec'd:	4/15/2019 1416	Site:	Pressure Tank
Chlorine ppm:	Free: ND Total: ND	Treatment:	Prior to Sediment Filter
Collected By:	J. Yeager 6176JY	pH:	6.8
		Well #:	HO-17-0197

PARAMETERS	RESULTS	UNITS	REFERENCE	METHOD	DATE/TIME/ANALYST
Bacteria, Coliform, Total, MPN	<1.0	MPN/ 100 ml	<1.0	SM20 9223B	4/16/2019 / 1000 / RER
Bacteria, E. coli, MPN	<1.0	MPN/ 100 ml	<1.0	SM20 9223B	4/16/2019 / 1000 / RER
Turbidity	12.9	NTU	<10	SM20 2130B	4/16/2019 / 0945 / RER

NOTES

- 1 MPN/ 100 ml = Most Probable Number [of viable bacteria] per 100 ml of sample.
- 2 NTU = Nephelometric Turbidity Units
- 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 Visual well check: Sealed, vented cap
- 6 pH & Chlorine level tested on site

Reason for Test : Use & Occupancy

Building Permit # : B18000794

Date Reported: 4/16/2019

#3

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 #:	129605	Account #:	3123
Reference:	Rivas Group Lot 2	Company:	National Water Servicing
Location:	14174 Triadelphia Mill Road Dayton, MD 21036	Requested By:	Dave Rycke
Date/ Time Collected:	4/17/2019 1115	Source:	Well Water
Date/Time Rec'd:	4/17/2019 1335	Site:	Test Port
Chlorine ppm:	Free: ND Total: ND	Treatment:	**
Collected By:	B. Dutterer 4717BD	pH:	9.6
		Well #:	HO-17-0197

PARAMETERS	RESULTS	UNITS	REFERENCE	METHOD	DATE/TIME/ANALYST
Turbidity	4.01	NTU	<10	SM20 2130B	4/18/2019 / 0820 / RER

NOTES

- 1 NTU = Nephelometric Turbidity Units
- 2 pH & chlorine tested on site
- 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 Visual well check: Sealed, vented cap
- 6 **Sample collected after Multistage Sediment Tank, prior to Sediment Filter

Reason for Test : Use & Occupancy

Building Permit # : B18000794

Date Reported: 4/18/2019

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 #:	129606.1	Account #:	3123
Reference:	Rivas Group Lot 2	Company:	National Water Servicing
Location:	14174 Triadelphia Mill Road Dayton, MD 21036	Requested By:	Dave Rycke
Date/ Time Collected:	4/17/2019 1120	Source:	Well Water
Date/Time Rec'd:	4/17/2019 1335	Site:	Pressure Tank
Chlorine ppm:	Free: ND Total: ND	Treatment:	**
Collected By:	B. Dutterer 4717BD	pH:	6.9
		Well #:	HO-17-0197

PARAMETERS	RESULTS	UNITS	REFERENCE	METHOD	DATE/TIME/ANALYST
Iron	0.09	mg/L	0.3*	FR, 45 (126)	4/22/2019 / 1000 / CRS

NOTES

- 1 *SMCL = Secondary Maximum Contaminant Level
- 2 ND:None Detected
- 3 Visual well check: Sealed, vented cap
- 4 **Sample collected prior to Multistage Sediment Tank & Sediment Filter

Reason for Test : Use & Occupancy
Building Permit # : B18000794

Date Reported: 4/22/2019

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 #:	129606	Account #:	3123
Reference:	Rivas Group Lot 2	Company:	National Water Servicing
Location:	14174 Triadelphia Mill Road	Requested By:	Dave Rycke
	Dayton, MD 21036	Source:	Well Water
Date/ Time Collected:	4/17/2019 1120	Site:	Pressure Tank
Date/Time Rec'd:	4/17/2019 1335	Treatment:	**
Chlorine ppm:	Free: ND Total: ND	pH:	6.9
Collected By:	B. Dutterer 4717BD	Well #:	HO-17-0197

Turbidity	3.18	NTU	<10	SM20 2130B	4/18/2019 / 0820 / RER
-----------	------	-----	-----	------------	------------------------

NOTES

- 1 NTU = Nephelometric Turbidity Units
- 2 pH & chlorine tested on site
- 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 Visual well check: Sealed, vented cap
- 6 **Sample collected prior to Multistage Sediment Tank & Sediment Filter

Reason for Test : Use & Occupancy

Building Permit # : B18000794

Date Reported: 4/18/2019

Send Report To:

State of Maryland
DHMH - Laboratories Administration

Division of Environmental Sciences

TRACE METALS LABORATORY

1770 Ashland Avenue
Baltimore, Maryland 21205

Howard County Health Department
Bureau of Environmental Health
8930 Stanford Blvd.
Columbia, Maryland 21045



E18001956001

Received: 11/15/2017

Metals

HOJC0197NA

LABORATORY ANALYSIS REQUEST

Do not write above this line

Please Print

Sample ID No: H01C0197NA Site Name: HO-17-0197 County: Howard

Sample Source: 14170 Triadelphia Mill - Vawter Prop. Collector: CABATHUG
Street Town or City Name

Date Collected: 11/14/2017 Time Collected: 12 a.m. / PM Phone #: 410 313 2643
11-15-17

Sample Preserved By: ☐ Field ☐ ESRL ☐ WMRL ☒ Central Lab
Preservative Used: ☒ HNO₃ mL pH: <2

Sample Type: ☒ Drinking Water ☐ Landfill ☒ Source (Raw Water) ☐ Liquid
Data Category: ☐ Community ☐ Stream ☐ Distribution (Treated) ☐ Solid
Code: 11 ☐ 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 @ ifeld 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)	<u>24</u>		Potassium (K)				
	Thallium (Tl)			Silver (Ag)				

Lab Supervisor: _____

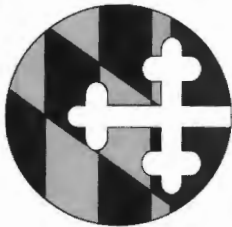
Date Reported: ____/____/____

•Phone: (443) 681 - 4596

•Fax: (443) 681 - 4507

DHMH 4432 (05/17)

SUBMITTER'S COPY



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: E18001956 Date Coll.: 11/14/2017 Date Received: 11/15/2017 Submitted By: Cabahug

Field ID: HOJC0197NA
Lab No.: E18001956001

<u>Method</u>	<u>Element</u>	<u>Result</u>	<u>Units</u>	<u>Date Analyzed</u>
EPA 200.7	Sodium	9.78	ppm	11/21/2017

Comments:

Approved by: Yinfeng Chai

Approval date: 11/22/2017

**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.

~~Howard County Health Department
Bureau of Environmental Health
8930 Stanford Blvd.
Columbia, Maryland 21045~~

WATER ANALYSIS

VAWTER PROPERTY



E18001959001

Received: 11/15/2017

Inorganic

HOJC0197

Bottle Number	<u>H0JCO197ID</u>	Name	<u>H0-17-0197 Lot 2</u>	County	<u>XIII Howard</u>	County Code	<u>15</u>
Location	<u>Vander Property lot 2 - 14170 Triadelphia Mill</u>			Data Category	<u>How ARD</u>		
Collected:	Date	<u>11/14/2017</u>	Time	<u>12:00</u>	Collector & Phone	<u>JOSEPH CABATHUR 240 630 9734</u>	
Submitter				Code	<u> </u>		
CHECK (one per box)							
Drinking Water	<input checked="" type="checkbox"/>	Community	<input type="checkbox"/>	Source (raw water)	<input checked="" type="checkbox"/>	Emergency	<input type="checkbox"/>
Landfill	<input type="checkbox"/>	Non-community	<input type="checkbox"/>	Distribution (treated)	<input type="checkbox"/>	Routine	<input checked="" type="checkbox"/>
Stream	<input type="checkbox"/>	Private	<input checked="" type="checkbox"/>	MCL	<input type="checkbox"/>	Recheck	<input type="checkbox"/>
Other	<input type="checkbox"/>	Other	<input type="checkbox"/>	Federal Project	<input type="checkbox"/>		

FIELD	Plant No.	<div><div></div><div></div><div></div><div></div></div>	Sampling Station	<div><div></div><div></div><div></div><div></div></div>	Preservation: Iced	<input checked="" type="checkbox"/>	Acid	<input type="checkbox"/>	Type of Acid	<div><div></div><div></div><div></div><div></div></div>
	pH	<div><div></div><div>6</div><div>8</div></div>	Chlorine: Free	<div><div></div><div>0</div><div>0</div></div>	Total	<div><div></div><div>0</div><div>0</div></div>	Specific Conductance	<div><div></div><div></div><div></div><div></div><div></div></div>		
	Notes to Lab/Remarks: <u>Sample taken at yield test</u>									

[illegible]

Number of Tests Requested		
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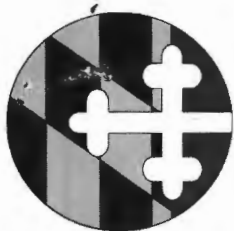
Section Chief

Date _____

Reported

MDH-90-A 07/17

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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

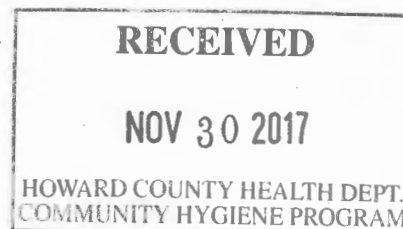
HOWARD CO ENVIRONMENTAL HLTH
8930 STANFORD BLVD
COLUMBIA, MD 21045

Lab Project NoE18001959 Date Coll. 11/14/2017 Date Received 11/15/2017 Submitted By: Cabahug

Field ID: HOJC0197
Lab No.: E18001959001

<u>Analyte</u>	<u>Method</u>	<u>Result</u>	<u>Units</u>	<u>Date Analyzed</u>
Chloride	SM 4500-Cl E	<10	mg/L	11/21/2017
Total Dissolved Solids	SM 2540C	109	mg/L	11/20/2017

Comments:



Approved by:

Approval date: 11/29/2017

*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.

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