

B 1 38595

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL please type 557434

STATE PERMIT NUMBER

HO-15-0357 fill in this form completely

Date Received (APA) 10/30/15

OWNER INFORMATION

LAND DESIGN & DEVELOPMENT 5300 MORSEY HALL DR, SUITE 102 ELICOTT CITY MD 21043

B 3

LOCATION OF WELL

HOWARD COUNTY FAIRLANE FARM SECTION 44 LOT 20 NEAREST TOWN WOODBORNE

DRILLER INFORMATION

MICHAEL BARLOW MW D 355 BARLOW WELL DRILLING 512 UNDERWOOD LANE 21014 ME 10/19/15

B 4

SOURCES OF DRILLING WATER

1. WELL

MORGAN STATION RD ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX) NORTH SOUTH WEST EAST 34 1000 37 DISTANCE FROM ROAD ENTER FT OR MI 38 39 TAX MAP: 8 BLK: 2 PARCEL 8

B 2

WELL INFORMATION

APPROX. PUMPING RATE (GAL. PER MIN.) 5 AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) 750

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL

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

Howard COUNTY NAME COUNTY NO. 13 STATE SIGNATURE DATE ISSUED 11/21/16 CO SIGNATURE EXP. DATE 11/21/17

APPROXIMATE DEPTH OF WELL 300 FEET

APPROXIMATE DIAMETER OF WELL 6 INCH NEAREST INCH

METHOD OF DRILLING (circle one)

BORED (or Augered) JETTED Jetted & DRIVEN AIR-ROTary AIR-PERCussion ROTARY (Hydraulic Rotary) CABLE REVERSE-ROTary DRIVE-POINT

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 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

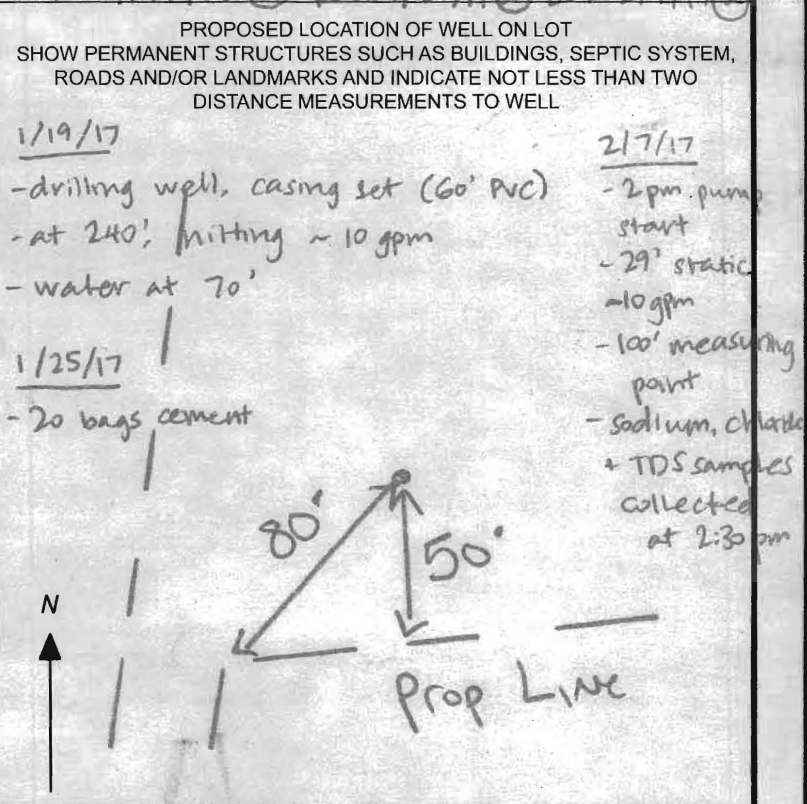
Not to be filled in by driller (MDE OR COUNTY USE ONLY)

APPROX. PERMIT NUMBER 402015G004(01) PERMIT No. HO-15-0357

SPECIAL CONDITIONS

NOTE APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED

Sodium chloride + TDS samples required at yield



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: Fogies Well Pump & Water Treatment, LLC Telephone #: 410 795 5670
 Address: 580 Obrecht Rd
Sykesville, 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 Foote 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: NVR INC Telephone #: _____
 Subdivision: Fairlane Farms Lot #: 20 Well Tag #: HO-15-0357 ✓ 6/13/2018 ⊕
 Site Address: 1045 Fairlane Rd
Woodbine, MD 21797

<u>Submersible Pump Data</u>	<u>Pitless Adapter</u>	<u>Well Cap and Electric Conduit</u>
Make: <u>Goulds</u>	Make: <u>Campbell</u>	Two piece watertight cap: <u>YES</u>
Model #: <u>T3B05422</u>	Model #: <u>NA</u>	Screened, vented well cap: <u>YES</u>
Pump Capacity: <u>7</u> GPM	Depth: <u>36"</u> (36" min)	Cap secured to casing: <u>YES</u>
Well Yield: <u>1000pm</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>300</u> (feet)	Conduit secured to well cap: <u>YES</u>	

If pump capacity exceeds well yield, a low water cutoff 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 N/A

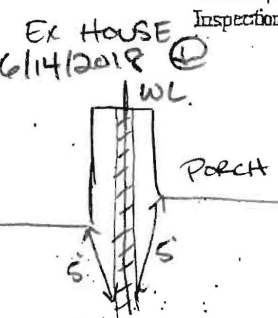
<u>Piping to house</u>	<u>House Connection</u>
Type: <u>1" poly pipe</u>	PVC sleeve to undisturbed soil at wall penetration: <u>YES</u>
PSI: <u>2000</u> (60 psi min)	Length of sleeve (5' minimum from foundation): <u>6'</u>
Depth of supply line: <u>36"</u> (36" min)	Sleeve sealed properly: <u>YES</u>

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 C Foote date: 6/12/18

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

Date Insp. Requested: 6/13/2018 Date Insp. Approved: 6/14/2018 Inspector: Ⓛ
 Inspection Data: Pitless adapter watertight & water supply line at least 36" below grade ✓ 42" 6/13/2018 ⊕
 Two piece cap installed and attached to casing securely ✓
 Elec. conduit extends at least 18" below grade/attached to cap properly ✓ 26" 6/14/2018 ⊕
 Safety rope not outside of well cap/casing ✓
 Correct well tag attached properly and casing 8" above finished grade ✓ 32" 6/13/2018 ⊕
 Water supply line sleeved adequately at house connection ✓ Ⓛ 6/14/2018
 Adequate grout observed below pitless adapter ✓



6/13/2018 ⊕ - Extend House Sleeve to clear overdig.
 Extend conduit 18" below grade or
 Reinsp. @ Final grade.
6/14/2018



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

INTERIM CERTIFICATE OF POTABILITY

Expiration Date – FEBRUARY 2, 2018

August 2, 2018

Homeowner
1045 Fairlane Road
Woodbine, MD 21797

RE: Fairlane Farm, Lot 20
1045 Fairlane Road
Building Permit: B18000420
Well Permit: HO-15-0357

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 **7/11/2018**. Final approval of the well line connection to the dwelling was granted on **6/14/2018**. The well construction was completed on **2/7/2017**. Water samples were collected on **7/31/2018**.

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. 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-15-0357. 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>



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

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,

Kevin M. Wolf, LEHS, R.S./REHS, Supervisor
Groundwater Management Section
Well & Septic Program

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

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

February 22, 2018

Homeowner
1045 Fairlane Drive
Woodbine, MD 21797

Dear Homeowner,

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

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 your well measured 6.45 mg/L.**

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 your well measured <10 mg/L.** The secondary maximum contaminant level for TDS is 500 mg/L; **TDS from your well measured 72 mg/L.**

Feel free 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

Send Report To: Bert Nixon
 Howard Co Health Dept.
 Bureau of Environmental Health
 8930 Stanford Blvd.
 Columbia MD 21045

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

Barcode: **E17003080002**
 Received: 02/08/2017
 Metals HO-15-0357
 Do not write above this line

LABORATORY ANALYSIS REQUEST

Please Print

D

Sample ID No: HO-15-0357 Site Name: Fairlane Farm - Lot 20 County: Howard

Sample Source: Fairlane Drive Woodbine Collector: S. Collins
Street Town or City Name

Date Collected: 2 / 7 / 20 17 Time Collected: 2:30 a.m. p.m. Phone #: 410-313-6287

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 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	Results (ppm)	✓	Element	Results (ppm)
	Antimony (Sb)			Copper (Cu)	
	Arsenic (As)			Lead (Pb)	
	Barium (Ba)			Silver (Ag)	
	Beryllium (Be)			Zinc (Zn)	
	Cadmium (Cd)			Aluminum (Al)	
	Chromium (Cr)			Iron (Fe)	
	Mercury (Hg)			Manganese (Mn)	
	Nickel (Ni)			Calcium (Ca)	
	Selenium (Se)			Magnesium (Mg)	
✓	Sodium (Na) <u>JND</u>			Potassium (K)	
	Thallium (Tl)			Uranium (U)	
				Vanadium (V)	

Lab Supervisor: _____

Date Reported: ___/___/___

•Phone: (443) 681-3857

•Fax: (443) 681-4507



State of Maryland
DHMH-Laboratories Administration
Division of Environmental Chemistry
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: E17003080 Date Coll.: 01/07/2017 Date Received 02/08/2017 Submitted By: Collins

Field ID: HO-15-0357
Lab No.: E17003080002

<u>Method</u>	<u>Element</u>	<u>Result</u>	<u>Units</u>	<u>Date Analyzed</u>
EPA 200.7	Sodium	6.45	ppm	02/16/2017

Comments:

Approved by:

Yungso Choi

Approval date: 02/21/2017

**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.



State of Maryland
 DHMH-Laboratories Administration
 Division of Environmental Chemistry
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 NoE17003075 Date Coll. 02/07/2017 Date Received 02/08/2017 Submitted By: S. Collins

Field ID: HO-15-0357
 Lab No.: E17003075002

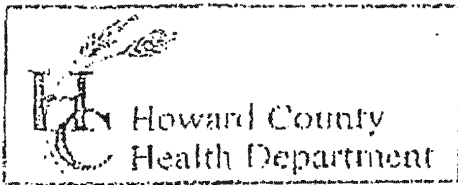
<u>Analyte</u>	<u>Method</u>	<u>Result</u>	<u>Units</u>	<u>Date Analyzed</u>
Chloride	SM 4500-Cl E	<10	mg/L	02/13/2017
Total Dissolved Solids	SM 2540C	72	mg/L	02/08/2017

Comments:

Approved by: <u><i>Shahin Amini</i></u>	Approval date: <u>02/14/2017</u>
---	----------------------------------

*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.



3525 H Ellicott Mills Drive, Ellicott City, MD 21043
(410) 313-2640 Fax (410) 313-2648
TDD (410) 313-2323 Toll Free 1-866-313-6300
website: www.hchealth.org

Penny E. Borenstein, M.D., M.P.H., Health Officer

Fair Lane Farm
Subdivision

TO ALL INTERESTED PARTIES

When submitting a well permit application for a proposed well for new construction, please indicate one of the following:

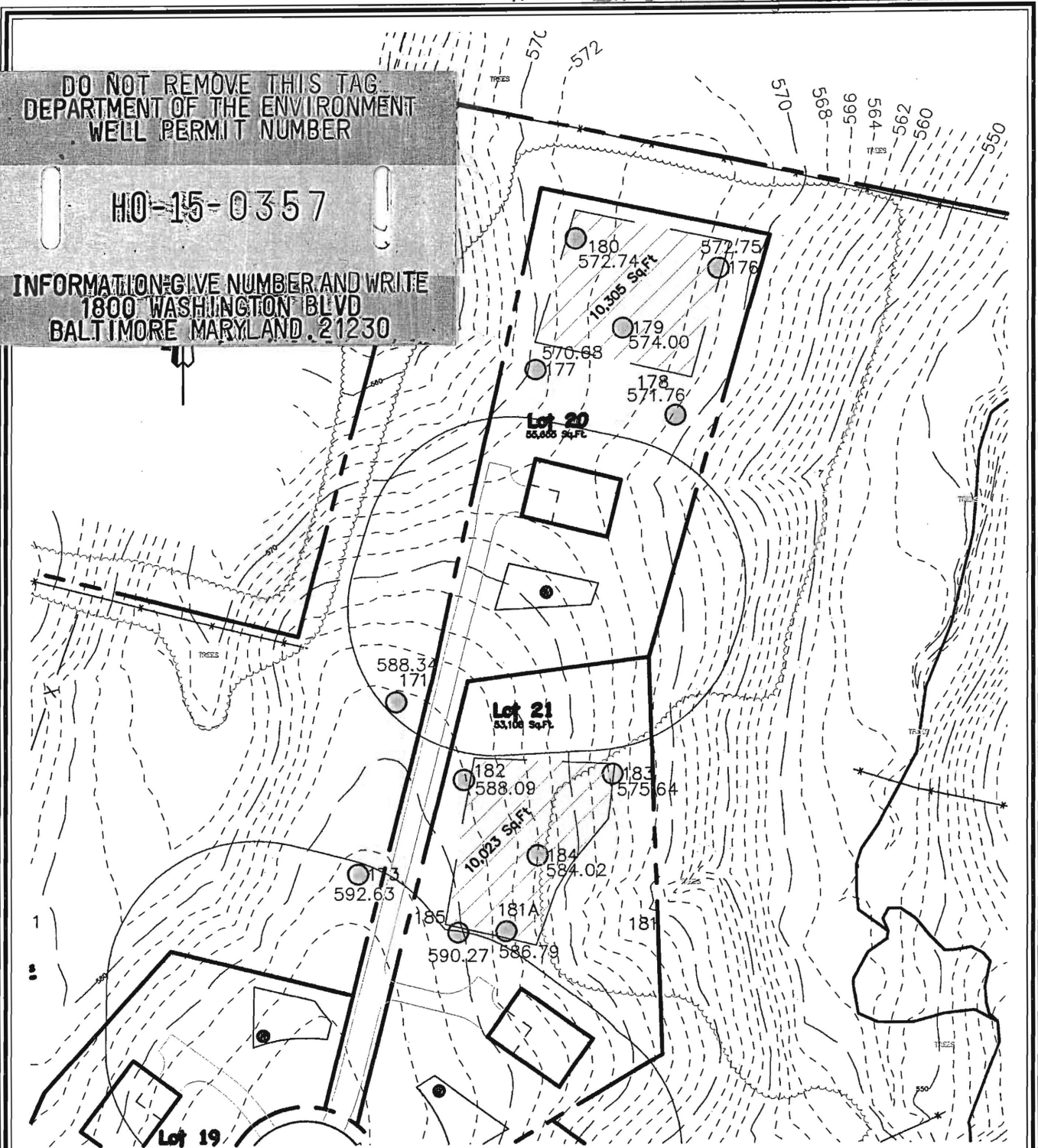
- The well site has been staked by Fisher Collins + Carter
(professional land surveyor or company employing professional land surveyors)
on 3/29/16 (date) and does not require a site inspection.
- The well driller, builder or property owner will call the Health Department to schedule a time to meet in 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 6/10/03

Well box approved 11/21/16 SC
 Well box staked by Fisher, Collins + Carter

DO NOT REMOVE THIS TAG
 DEPARTMENT OF THE ENVIRONMENT
 WELL PERMIT NUMBER
HO-15-0357
 INFORMATION: GIVE NUMBER AND WRITE
 1800 WASHINGTON BLVD
 BALTIMORE MARYLAND, 21230



WELL EXHIBIT
FAIRLANE FARM
 PREVIOUSLY KNOWN AS SCHULTE PROPERTY
LOT 20

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
 ELLICOTT CITY, MARYLAND 21042
 (410) 461 - 2855

LOTS 1 THRU 44, BUILDABLE PRESERVATION PARCEL 'A'
 AND NON BUILDABLE PRESERVATION PARCEL 'B' THRU 'H'
 TAX MAP #8 PARCELS: 8 & 17 GRIDS: 2 AND 3
 FOURTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 SCALE: 1" = 100' DATE: October 13, 2015

I:\2005\05106\dwg\05106 Well Exhibits.dwg, 10/14/2015 11:22:01 AM, 1:1

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 #: 123739 Account #: 1933
Reference: Fairlane Farms Lot 20 Company: Fogles Well Pump & Treatment
Location: 1045 Fairlane Road Requested By: Dave Fogle
Woodbine, MD 21797 Source: Well Water
Date/ Time Collected: 7/31/2018 0806 Site: Pressure Tank
Date/Time Rec'd: 7/31/2018 0850 Treatment: None
Chlorine ppm: Free: ND Total: ND pH: 6.0
Collected By: C. Condon 3557CC Well #: HO-15-0357

PARAMETERS	RESULTS	UNITS	REFERENCE	METHOD	DATE/TIME/ANALYST
Bacteria, Coliform, Total, MPN	<1.0	MPN/ 100 ml	<1.0	SM20 9223	8/1/2018 / 0930 / CRS
Bacteria, E. coli, MPN	<1.0	MPN/ 100 ml	<1.0	SM20 9223	8/1/2018 / 0930 / CRS
Nitrate	<1.0	mg/L	10	601	7/31/2018 / 0930 / CRS
Turbidity	0.90	NTU	<10	SM20 2130B	7/31/2018 / 1000 / CRS
Sand	NS	mg/L	5	Visual/Gravimetric	7/31/2018 / 1000 / 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 Sample collected by client, analyzed as received
- 7 ND:None Detected
- 8 Visual well check: Sealed, vented cap
- 9 pH and Chlorine level tested in lab (pH tested after recommended holding time)

Reason for Test : Use & Occupancy
Building Permit # : 18000420

Date Reported: 8/1/2018



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

February 22, 2018

Homeowner
1045 Fairlane Drive
Woodbine, MD 21797

Dear Homeowner,

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

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 your well measured 6.45 mg/L.**

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 your well measured <10 mg/L.** The secondary maximum contaminant level for TDS is 500 mg/L; **TDS from your well measured 72 mg/L.**

Feel free 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

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

MEMORANDUM

TO: Fisher, Collins & Carter, Inc.
10272 Baltimore National Pike
Ellicott City, MD 21042

FROM: Hank Oswald, L.E.H.S.
Well & Septic Program

RE: 1045 Fairlane Road
Fairlane Farms, Lot 20

Date: March 29, 2018

The OSDS Plan for 1045 Fairlane Road has been reviewed with the following comments:

- 1.) Match well tag # on plan with well tag # in note
- 2.) Invert elevation into trench is greater than the invert elevation out of the d-box
- 3.) Raise trench invert up to 3 feet in order to utilize the full 4 foot of reduction credit
- 4.) 1st replacement system reduction depth is 3 feet (not 4 feet)
- 5.) If 2nd replacement system is on same side as 1st replacement system then use 3 feet. Otherwise, follow the septic system specs (please see additional requirements at bottom of page).
- 6.) Floor plan shows a potential basement bedroom next to finished full bathroom. You may want to consult with the builder on sizing requirement.