

C1 08159

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND WELL COMPLETION REPORT

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

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

COUNTY A-520 448 NUMBER A-520 385

ST/CO USE ONLY DATE RECEIVED

DATE WELL COMPLETED

Depth of Well 22 205 10/3/2012

PERMIT NO. FROM "PERMIT TO DRILL WELL" 140-95-2358

OWNER last name first name TOWN CLARKSVILLE MD SUBDIVISION WALNUT CREEK SECTION LOT 65

WELL LOG table with columns: DESCRIPTION, FEET (FROM, TO), check if water bearing. Includes entries for Top Soil, Clay, Sand Stone, White mica, etc.

GROUTING RECORD form with fields for GROUTED, MATERIAL, CEMENT, BENTONITE CLAY, NO. OF BAGS, NO. OF POUNDS, GALLONS OF WATER, DEPTH OF GROUT SEAL.

CASING RECORD form with fields for casing types (STEEL, CONCRETE, PLASTIC, OTHER), MAIN CASING TYPE, Nominal diameter, Total depth.

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

SCREEN RECORD form with fields for screen type, DEPTH, SLOT SIZE, DIAMETER OF SCREEN.

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

NUMBER OF UNSUCCESSFUL WELLS: 0

WELL HYDROFRACTURED form with YES/NO options.

CIRCLE APPROPRIATE LETTER A WELL WAS ABANDONED AND SEALED WHEN THIS WELL WAS COMPLETED

DRILLERS LIC. NO. M SD 112 DRILLERS SIGNATURE LIC. NO. D

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

DEPTH (nearest ft.) table with columns for casing sections and their depths.

MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER) form with fields for T, W, Q, TELESCOPE CASING, LOG INDICATOR, OTHER DATA.

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

LATITUDE 3 9.14.291 LONGITUDE 7 6.56.517 (DEFAULT COORD. WGS 84) NOTES:

B 1 14947

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL

STATE PERMIT NUMBER

HO - 95 - 2358

538031-H please type

Date Received (APA)

08 06 12

OWNER INFORMATION

Land Marketing Consultants PO Box 482 LISBON MD 21765

B 3

LOCATION OF WELL

Howard WALNUT CREEK SECTION 44 LOT 65 CLANKSVILLE

DRILLER INFORMATION

RAYNE MAYNE MSD 112 RAYNE MAYNE WELL DRILLING 12024 Handy Rd Mt. Airy MD 21771

B 4

SOURCES OF DRILLING WATER

1. well

HAYLAND FARM way 250 ON WHICH SIDE OF ROAD HAYLAND FARM way 250 TAX MAP: 28 BLK: 11 PARCEL 49

B 2

WELL INFORMATION

APPROX. PUMPING RATE 5 AVERAGE DAILY QUANTITY NEEDED 500

USE FOR WATER (CIRCLE APPROPRIATE BOX)

- Domestic Potable Supply & Residential Irrigation, Farming, 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 A520448 A520385 13 COUNTY NAME COUNTY NO. STATE SIGNATURE DATE ISSUED 08/17/12 8/17/13

APPROXIMATE DEPTH OF WELL 150 FEET

APPROXIMATE DIAMETER OF WELL 64 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 DEEPEINED WELLS (CIRCLE APPROPRIATE BOX)

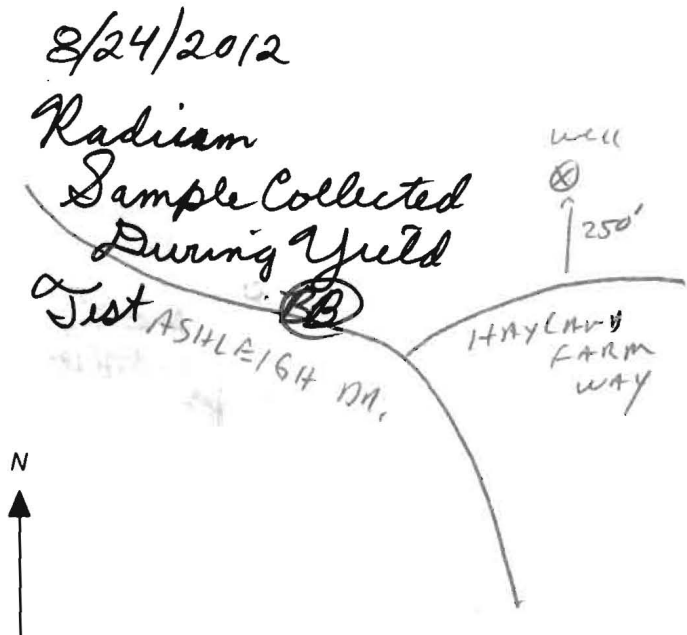
- This well will not replace an existing well, This well will replace a well that will be abandoned and sealed, This well will replace a well that will be used as a standby-contact local approving authority for policy on standby wells, This well will deepen an existing well

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

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

APPROP. PERMIT NUMBER HO 2006G020 PERMIT No. HO-95-2358

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



SPECIAL CONDITIONS

NOTE APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED

Radium Sample required at yield test / All wells must be at least 100' apart

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: Tri County Pump Service Inc Telephone #: 301-432-0330
Address: 6711 Old National Rd
Beesboro, Md 21213

(Must circle one) Licensed Plumber Licensed Well Driller Licensed Well Pump Installer
License # and name of individual responsible for the field installation:
Name (Print): William E. Griffith License# 20135

*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: Craftmark Homes Telephone #: 703-932-0573
Subdivision: Wakant Creek Lot #: 65 Well Tag #: HO-95-2358
Site Address: Clarksville, Md 5005 Lindera Court

Submersible Pump Data Pitless Adapter Well Cap and Electric Conduit
Make: Sta-Gu Make: Arvin Gray Two piece watertight cap: Yes
Model #: S7P4H505221 Model #: PT Pub Screened, vented well cap: Yes
Pump Capacity 7 GPM Depth: No (36" min) Cap secured to casing: Yes
Well Yield: 10 GPM NSF/WSC approved: Yes Conduit min 18" B.G.: Yes
Depth of well encountered at time of pump installation: 205 (feet) Conduit secured to well cap: Yes
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

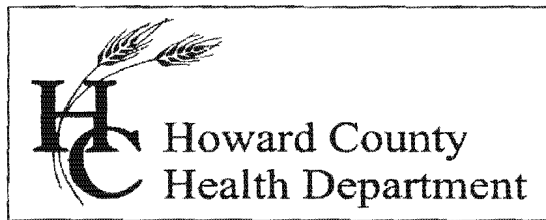
Piping to house House Connection
Type: Poly PVC sleeve to undisturbed soil at wall penetration: Yes
PSI: 200 (160 psi min) Length of sleeve(5' minimum from foundation): 200
Depth of supply line: 36 (36" min) Sleeve sealed properly: Yes

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: William E. Griffith date: 4-2-2014

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

Date Insp. Requested: _____ Date Insp. Approved: 4/3/2014 Inspector: BBB
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 ✓



Bureau of Environmental Health

8930 Stanford Blvd., Columbia, MD 21046-2147

Main: 410-313-1771 | Fax: 410-313-2648

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

www.hchealth.org

Facebook: www.facebook.com/hocohealth

Twitter: HowardCoHealthDep

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

INTERIM CERTIFICATE OF POTABILITY

Expiration Date – June 5, 2015

December 5, 2014

Homeowner
5005 Lindera Court
Ellicott City, MD 21042

**RE: Walnut Creek, Lot # 65
5005 Lindera Court
Building Permit: B13003466
Well Permit: HO-95-2358**

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 **7/31/2014**. Final approval of the well line connection to the dwelling was granted on **04/03/2014**. The well construction was completed on **8/24/2012**. Water samples were collected on **7/14/2014 and 9/10/2014**.

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 **8/24/2012**. Results showed a Gross Alpha level of **$< 2.0 \pm 0.0$ pCi/L** and **Gross Beta** level of **4.0 ± 1.9 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 50 pCi/L (roughly equivalent to the annual dose rate of 4 millirems per year). At the time of testing and with respect to these parameters, the well water is safe for all uses.

This certifies that the initial sampling requirements of COMAR 26.04.04 "Well Regulations" have been met for the water supply system installed under well permit HO-95-2358. 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 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>

Approving Authority,

Hank Oswald

Hank Oswald, L.E.H.S.
Environmental Sanitarian
Well & Septic Program

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



7178 Columbia Gateway Dr., Columbia, MD 21046
(410) 313-2640 Fax (410) 313-2648
TDD (410) 313-2323 Toll Free 1-866-313-6300
website: www.hchealth.org

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

TO ALL INTERESTED PARTIES

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

Well Site Location:

<u>Walnut Creek</u>	<u>65</u>	<u>Hayland Farm Way</u>
Subdivision/Property Name	Lot #	Road Name

- The well site has been staked by Fisher, Collins, and Carter, Inc., (professional land surveyor or company employing professional land surveyors) on 04/22/12 (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 3/11/07



Fredericktowne Labs Inc.

ENVIRONMENTAL TESTING

3020 Venture Court * P.O. Box 245 * Myersville, MD 21773 * 301-293-3340 * Fax 301-293-2366
www.fredericktownelabs.com * info@fredericktownelabs.com

Certificate of Analysis

Acct. No. 3948 - 1158-2

Field Record

Site visit performed on: Wednesday, September 10, 2014 3:00 PM
by: Kevin Kretzer State ID No. 1511KK
Affiliation: Tri-County Pump Service
Property Owner: Craft Mark Homes
Project: Lot 65
Property Address: 5005 Lindera Court
Ellicott City, MD
Sample Source: Kitchen Sink
Treatment Devices Noted: No Treatment Devices
Sample taken after treatment: No
Well No.: HO-95-2358
Field pH: 6.6
Total Res. Cl.: 0.0 mg/l

REVISED
Address 9/19/14

Laboratory Report

Sample Received at laboratory: 9/11/2014 8:00 AM

Bacteriological results:

Total Colif. (/100ml)	E.coli. (/100ml)	Start		End		Method	Analyst
		Date	Time	Date	Time		
<1	<1	09/11/14	11:22	09/12/14	11:23	9223B	JD

Bacteriological analysis of this sample indicates the water is safe for human consumption and meets federal, state and local requirements. Analysis was performed according to the 20th edition of Standard Methods

Reported by: Collin Millott 9/19/14
Name Date

Fredericktowne Labs, Inc. is a State Certified Water Quality Laboratory
Maryland Cert. No. 116 Virginia Cert. No. 00444
MDOT WBE Cert. No.: 91-158



Fredericktowne Labs Inc.

ENVIRONMENTAL TESTING

3020 Ventria Court * P.O. Box 245 * Myersville, MD 21773 * 301-293-3340 * Fax 301-293-3266
www.fredericktownelabs.com * info@fredericktownelabs.com

Certificate of Analysis

Acct. No. 3948 - 1117-1

Field Record

REVISED
Address 7/17/14

Site visit performed on: Monday, July 14, 2014 11:33 AM
by: Chris Taylor State ID No. 9379CT
Affiliation: Tri-County Pump Service
Property Owner: Craftmark Homes
Property Address: Lot 65, 5005 Lindera Court
Ellicott City, MD
Sample Source: Power Room
Well No.: HO-95-2358
Field pH: 7.1
Total Res. Cl.: 0.0 mg/l

Laboratory Report

Sample Received at laboratory: 7/14/2014 12:03 PM

Bacteriological results:

Total Colif. (/100ml)	E.coli.(/100ml)	Start		End		Method	Analyst
		Date	Time	Date	Time		
<1	<1	07/14/14	14:00	07/15/14	14:49	9223B	JD

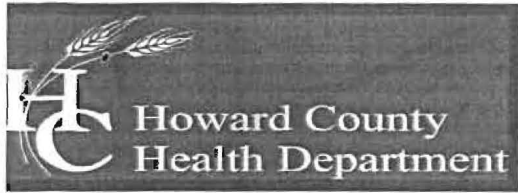
Bacteriological analysis of this sample indicates the water is safe for human consumption and meets federal, state and local requirements. Analysis was performed according to the 20th edition of Standard Methods

Inorganic Chemical results:

Parameter	Result	Units	MCL	Date of Analysis	Method	Analyst
Nitrate-Nitrogen	4.4	mg/l	10	7/14/2014	300.0	JD
Sand	<2	mg/l	5	7/15/2014	0.065mm Filter	KB
Turbidity	0.6	NTU	10	7/14/2014	180.1	KB

Reported by: Callie Mellott 7/17/14
Name Date

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MDOT WBE Cert. No.: 91-158



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Facebook: www.facebook.com/hocohealth

Maura Rossman, M.D., Acting Health Officer

October 11, 2012

Heritage Realty & Land Management
Attn. Tim Feaga
15950 North Avenue, P.O. Box 482
Lisbon, Maryland 21765

RE: Walnut Creek Lot 65
Hayland Farm Way
Well Tag: HO - 95 - 2358

Dear Mr. Feaga:

A sample was collected during a yield test on August 24, 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 $< 2.0 \pm 0.0$ picocuries/liter (pCi/L), while the **Gross Beta** level was 4.0 ± 1.9 pCi/L. The **Gross Alpha** result was below 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 meets EPA regulatory standards. Additional testing **for these parameters** will not be required to secure the future Use & Occupancy. **Please 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,

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

Bert Nixon, Director
Bureau of Environmental Health

Enclosure

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

Send Report To: Bert Nixon

Howard Co Env. Health

7178 Columbia Gateway Dr.

Columbia, MD 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

E000420 228

LABORATORY ANALYSIS REQUEST

Sample Bottle No. A: 952358BB No. B: _____ Field Blank Bottle No. 1: 2358A No B: _____

Plant/Site Name: Walnut Creek - Lot 65 County: Howard

Sample Source: Hayland Farm Way Location: HO-95-2358
(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: B. Baker

Telephone No.: (410) 313-2643

Date Collected: 8/24/2012

Time Collected: 11:00 a.m. _____ p.m.

Nitric Acid Preserved: Yes No

Iced: Yes No

Submitters Code:

Federal Project:

Field Data: _____
pH _____ Chlorine _____

Remarks: Sample Collected During Yield Test

✓	Test	EPA Code	Laboratory No.	Results (pCi/L)	Date Analyzed	Date Reported
✓	Gross Alpha	4000	0420	<2.0	8/30/12	9/4/12
✓	Gross Beta	4100	0420	4.0 ± 1.9	L	+
	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: 08/28/12

Supervisor: [Signature]

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

Send Report To: Bert Nixon
Howard Co. Env. Health
7178 Columbia Gateway Dr.
Columbia, MD 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

E0004193-28
 Field
 Blank

LABORATORY ANALYSIS REQUEST

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

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CHECK (one per box)

Drinking Water
 Landfill
 Stream
 Other

Community
 Non-community
 Private
 Other

Source (raw water)
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Emergency
 Routine
 Recheck
 Special

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Telephone No.: (410) 313-2643

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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	0419	<2.0	8/30/12	9/4/12
✓	Gross Beta	4100	0419	<4.0	L	L
	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: 08/28/12

Supervisor: [Signature]

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