

C1 08147 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)

COUNTY 4520 385 NUMBER 4520 448

ST/CO USE ONLY DATE Received 07/11/12 DATE WELL COMPLETED 08/08/12 Depth of Well 125 PERMIT NO. FROM "PERMIT TO DRILL WELL" 10/3/2012 HO-95-2335

OWNER Land Marketing Consultants WELL SITE ADDRESS 250 BENJAMINS TOWN CLARKSVILLE MD SUBDIVISION WALNUT CREEK SECTION LOT 38

WELL LOG Table with columns: DESCRIPTION, FEET (FROM, TO), check if water bearing. Rows include Top Soil, Clay, Sand Stone, White mica, Sand Stone, White mica.

GROUTING RECORD WELL HAS BEEN GROUTED (Y) (N) TYPE OF GROUTING MATERIAL (C) (B) NO. OF BAGS 17 NO. OF POUNDS 1700

CASING RECORD MAIN CASING TYPE PL Nominal diameter 6 Total depth 48

OTHER CASING (if used) diameter 4 depth 125

SCREEN RECORD screen type or open hole (H) (O) DEPTH (nearest ft.) 170 44 125

NUMBER OF UNSUCCESSFUL WELLS: 0 WELL HYDROFRACTURED (Y) (N)

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

I HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN ACCORDANCE WITH COMAR 26.04.04 "WELL CONSTRUCTION"

DRILLERS LIC. NO. M D 117 DRILLERS SIGNATURE LIC. NO. D

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

Table with columns: A, C, H, S, R, E, N and rows for well depth measurements (8, 9, 11, 15, 17, 21, 23, 24, 26, 30, 32, 36, 38, 39, 41, 45, 47, 51)

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

PUMPING TEST HOURS PUMPED (nearest hour) 3 PUMPING RATE (gal. per min.) 10 METHOD USED TO MEASURE PUMPING RATE Bucket

PUMP INSTALLED DRILLER INSTALLED PUMP YES (NO) TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O) IN BOX 29

LATITUDE 39.14.423 LONGITUDE 76.56.963 (DEFAULT COORD. WGS 84)

NOTES:

<b>B 1</b>	<b>14920</b>	SEQUENCE NO. (MDE USE ONLY)	STATE OF MARYLAND <b>APPLICATION FOR PERMIT TO DRILL WELL</b> please type <b>537383</b>	STATE PERMIT NUMBER <b>HO-95-2335</b> <small>fill in this form completely</small>
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**OWNER INFORMATION**

Date Received (APA) 07 02 12  
8 MM DD YY 13

Land Marketing Consultants  
15 Last Name Owner First Name 34

PO BOX 482  
36 Street or RFD 55

Lis Bon MD 21765  
57 Town 70 State 72 Zip 76

**B 3 LOCATION OF WELL**

Howard  
8 COUNTY 21

Walnut Creek  
23 SUBDIVISION 42

SECTION 44 46 LOT 38  
44 46 48 50

CLARKSVILLE MD.  
52 NEAREST TOWN 71

**DRILLER INFORMATION**

RALPH E. MAYNE **M S D 117**  
Driller's Name 76 License No. 81

Ralph Mayne Well Drilling  
Firm Name

17024 Handy Rd. Mt Airy MD 21771  
Address

[Signature] 4/14/12  
Signature Date

**B 4 SOURCES OF DRILLING WATER**

1. well

2. \_\_\_\_\_

3. \_\_\_\_\_

BENJAMINS CT.  
11 STREET ADDRESS 30

ON WHICH SIDE OF ROAD  
(CIRCLE APPROPRIATE BOX)

NORTH  
 WEST  EAST  
 SOUTH

34 275 37  
DISTANCE FROM ROAD  
ENTER FT OR MI 38 39

TAX MAP: 28 BLK: 14 PARCEL 49

**B 2 WELL INFORMATION**

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

AVERAGE DAILY QUANTITY NEEDED 500  
14 (GAL. PER DAY) 20

**USE FOR WATER (CIRCLE APPROPRIATE BOX)**

DOMESTIC POTABLE SUPPLY & RESIDENTIAL IRRIGATION

FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION)

INDUSTRIAL, COMMERCIAL, DEWATERING

PUBLIC WATER SUPPLY WELL

TEST, OBSERVATION, MONITORING

OPEN LOOP GEOTHERMAL

CLOSED LOOP GEOTHERMAL

**NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL**

Howard **(13)** A520385  
COUNTY NAME COUNTY NO.

[Signature] INSERT S → 41  
STATE SIGNATURE

7/12/2012 Brian Baker 7/12/2013  
49 MM DD YY 48 CO SIGNATURE EXP. DATE

APPROXIMATE DEPTH OF WELL 150 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

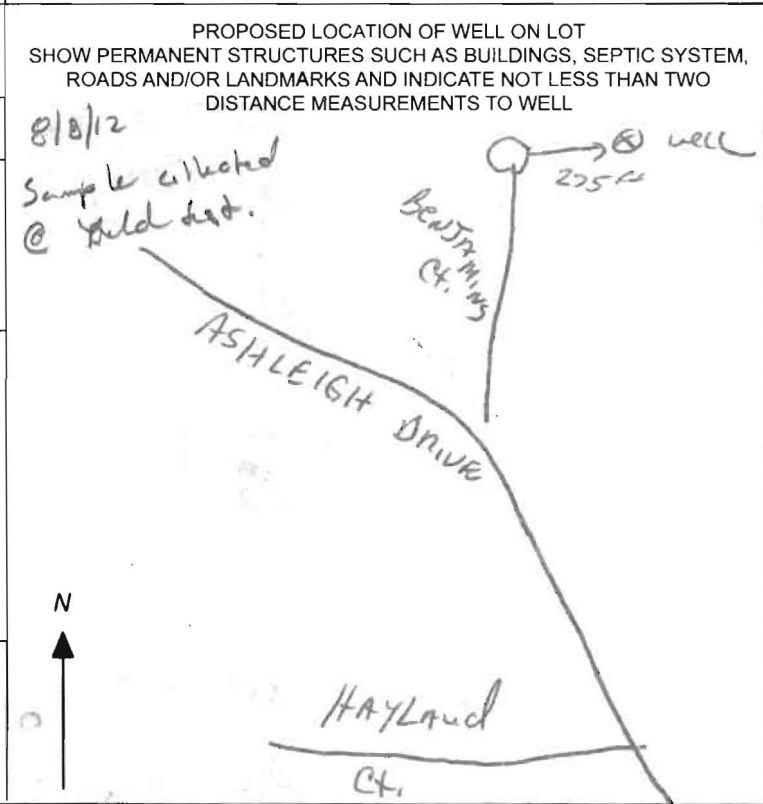
THIS WELL WILL DEEPEM AN EXISTING WELL

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

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

APPROX. PERMIT NUMBER HO2006G020

PERMIT No. HO-95-2335  
70 71 72 73 74 75 76 77 78 79



**SPECIAL CONDITIONS**

NOTE: APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED

Ralph Mayne Sample Needed, All Wells Must Be 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-Country Pump Service, Inc. Telephone #: 301-432-0330
Address: 6711 Old National Pike, Bowie, Md 21703

(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: Walnut Creek Lot #: 38 Well Tag #: HO-95-2335
Site Address: 5126 Honey Locust Ct, Elkridge City, Md 21042

Submersible Pump Data Pitless Adapter Well Cap and Electric Conduit
Make: Sta-Git Make: American-Cumby Two piece watertight cap: YES
Model #: SP4450S221-01 Model#: PT Screened, vented well cap: YES
Pump Capacity: 7 GPM Depth: 36 (36" min) Cap secured to casing: YES
Well Yield: 12 GPM NSF/WSC approved: YES Conduit min 18" B.G.: YES
Depth of well encountered at time of pump installation: 125 (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

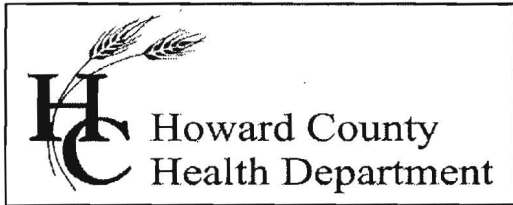
Piping to house House Connection
Type: Poly PVC sleeve to undisturbed soil at wall penetration: YES
PSI: 200 (160 psi min) Length of sleeve(5' minimum from foundation): 20
Depth of supply line: 36 (36" min) Sleeve sealed properly: YES

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: April 22, 2015

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

Date Insp. Requested: 4/23/15 Date Insp. Approved: 4/23/15 Inspector: SC
Inspection Data: Pitless adapter watertight & water supply line at least 36" below grade [check]
Two piece cap installed and attached to casing securely [check]
Elec. conduit extends at least 18" below grade/attached to cap properly [check]
Safety rope not outside of well cap/casing [check]
Correct well tag attached properly and casing 3" above finished grade [check]
Water supply line sleeved adequately at house connection [check]
Adequate grout observed below pitless adapter [check]



## Bureau of Environmental Health

8930 Stanford Blvd., Columbia, MD 21046-2147

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

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

[www.hchealth.org](http://www.hchealth.org)

Facebook: [www.facebook.com/hocohealth](http://www.facebook.com/hocohealth)

Twitter: HowardCoHealthDep

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

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### INTERIM CERTIFICATE OF POTABILITY

Expiration Date – DECEMBER 24, 2015

June 24, 2015

Homeowner  
5126 Honey Locust Court  
Ellicott City, MD 21042

**RE: Walnut Creek, Lot 38**  
**5126 Honey Locust Court**  
**Building Permit: B14004506**  
**Well Permit: HO-95-2335**

Dear Homeowner:

This is to advise you that the septic system installation and water well construction for the above referenced property have been inspected and approved. Final approval of the septic system was granted on **6/19/2015**. Final approval of the well line connection to the dwelling was granted on **4/23/2015**. The well construction was completed on **8/8/2012**. Water samples were collected on **6/10/2015 & 6/15/2015**.

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 **8/28/2012**. Results showed a Gross Alpha level of  $<2.0 \pm 0.0$  pCi/L and **Gross Beta** level of  $<4.0 \pm 0.0$  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). At the time of testing and with respect to these parameters, the well water is safe for all uses.

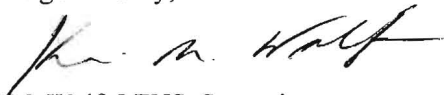
This certifies that the initial sampling requirements of COMAR 26.04.04 "Well Regulations" have been met for the water supply system installed under well permit HO-95-2335. Although the submitted sample results are in compliance with COMAR standards, the Health Department does not guarantee water supplies.

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,

A handwritten signature in black ink, appearing to read "Kevin M. Wolf". The signature is written in a cursive style with a large initial "K" and "W".

Kevin M. Wolf, LEHS, Supervisor  
Groundwater Mgmt. Sec.  
Well & Septic Program

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



# Fredericktowne Labs Inc.

ENVIRONMENTAL TESTING

# Labs Inc.

3020 Venice Court • P.O. BOX 245 • Myersville, MD 21773 • 800.332.2330 • FAX 301.203.2336  
www.fredericktownelabs.com • info@fredericktownelabs.com

## Certificate of Analysis

Acct. No. 3948 - 1308-1

### Field Record

Site visit performed on: Wednesday, June 10, 2015 4:30 PM  
by: Chris Taylor State ID No: 9379CT  
Affiliation: Tri-County Pump Service  
Property Owner: Craftmark Homes  
Property Address: Lot 38  
5126 Honey Locust Court  
Ellicott City, MD 21042  
Sample Source: Powder Room Faucet  
Well No.: HO-95-2335  
Field pH: 6.5  
Total Res. Cl.: 0.0 mg/l

### Laboratory Report

Sample Received at laboratory: 6/11/2015 8:52 AM

#### Bacteriological results:

Total Colif. (/100ml)	E.coli. (/100ml)	Start		End		Method	Analyst
		Date	Time	Date	Time		
<1	<1	06/11/15	12:37	06/12/15	07:48	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 - RUS	3.7	mg/l	10	6/11/2015	300.0	PH
Sand - RUSH	18	mg/l	5	6/12/2015	0.065mm Filter	JD
Turbidity - RUSH	13	NTU	10	6/11/2015	180.1	KB

*Fail*

*Amor*

Reported by: Karen DePina 6/12/15  
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 Venture Court • P.O. BOX 245 • Myersville, MD 21773 • 800-332-3340 • FAX 301-293-2366  
www.fredericktownelabs.com • info@fredericktownelabs.com

## Certificate of Analysis

Acct. No. 3948 - 1311-1

### Field Record

Site visit performed on: Monday, June 15, 2015 8:40 AM  
by: Chris Taylor State ID No. 9379CT  
Affiliation: Tri-County Pump Service

Property Owner: Craftmark Homes  
Property Address: 5126 Honey Locust  
Ellicott City, MD 21042

Sample Source: Kitchen Sink

Total Res. Cl.: 0.0 mg/l

### Laboratory Report

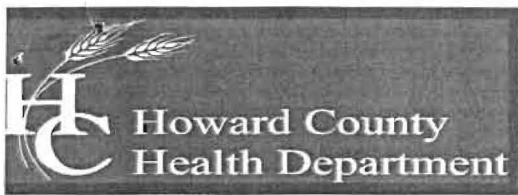
Sample Received at laboratory: 6/16/2015 8:12 AM

#### Inorganic Chemical results:

<u>Parameter</u>	<u>Result</u> <u>Units</u>	<u>MCL</u>	<u>Date of Analysis</u>	<u>Method</u>	<u>Analyst</u>
Sand	<2 mg/l	5	6/16/2015	0.065mmFilter	JD
Turbidity	0.2 NTU'	10	6/16/2015	180.1	KB

Reported by: John Mellott 6/17/15  
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



Bureau of Environmental Health

7178 Columbia Gateway Drive, Columbia, MD 21046-2147

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

Maura Rossman, M.D., Acting Health Officer

October 15, 2012

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

RE: Walnut Creek Lot 39  
Benjamin's Court  
Well Tag: HO - 95 - 2336

Dear Mr. Feaga:

A sample was collected during a yield test on August 28, 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  $< 4.0 \pm 0.0$  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 black ink 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

E000441 329

**LABORATORY ANALYSIS REQUEST**

Sample Bottle No. A: 952336BB No. B: \_\_\_\_\_ Field Blank Bottle No. 1: 2336A No B: \_\_\_\_\_  
 Plant/Site Name: Walnut Creek - Lot 39 County: Howard  
 Sample Source: Benjamins Ct. Location: HO-95-2336  
 (well no, lab sink, sample tap, etc.)

County:  1  3 Plant No.

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"/>		Special <input type="checkbox"/>

Collector: B. Baker Telephone No.: (410) 313-2643

Date Collected: 8/28/2012 Time Collected: 11:00 a.m. \_\_\_\_\_ p.m.

Nitric Acid Preserved: Yes  <sup>conv</sup> 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	0441	< 2.0	8/31/12	9/4/12
✓	Gross Beta	4100	0441	< 4.0	+	+
	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: 08/29/12

Supervisor: \_\_\_\_\_

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

E060410 d 29  
**Blank**

**LABORATORY ANALYSIS REQUEST**

Sample Bottle No. A: 952336BB No. B: \_\_\_\_\_ Field Blank Bottle No. 1: 2336A No B: \_\_\_\_\_

Plant/Site Name: Walnut Creek - Lot 39 County: Howard

Sample Source: Benjamins Ct Location: HO-95-2336  
(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: 8/28/2012

Time Collected: 11:00 a.m. \_\_\_\_\_ p.m.

Nitric Acid Preserved: Yes  No

Iced: Yes  No

Submitters Code:  Federal Project:

Field Data: \_\_\_\_\_ pH \_\_\_\_\_ Chlorine \_\_\_\_\_

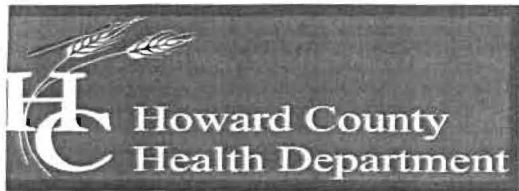
Remarks: Field Blank

✓	Test	EPA Code	Laboratory No.	Results (pCi/L)	Date Analyzed	Date Reported
✓	Gross Alpha	4000	0440	<2.0	8/31/12	9/4/12
✓	Gross Beta	4100	0440	<4.0	✓	✓
	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: 08/29/12

Supervisor: [Signature]

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



Bureau of Environmental Health

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Maura Rossman, M.D., Acting Health Officer

October 15, 2012

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

RE: Walnut Creek Lot 38  
Benjamin's Court  
Well Tag: HO - 95 - 2335

Dear Mr. Feaga:

A sample was collected during a yield test on August 28, 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  $< 4.0 \pm 0.0$  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,

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Bert Nixon, Director  
Bureau of Environmental Health

Enclosure

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

Bert Nixon

Howard County Health Department  
Bureau of Environmental Health  
7178 Columbia Gateway Drive  
Columbia, Maryland 21043

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

**LABORATORY ANALYSIS REQUEST**

Sample Bottle No. A:      No. B:      Field Blank Bottle No. 1: FBKW 81312 No B:     

Plant/Site Name: HCHD 7178 Columbia Gateway Dr. County: Howard

Sample Source: Distilled H<sub>2</sub>O Location: Lab  
(well no, lab sink, sample tap, etc.)

County:  1  3 Plant No.

CHECK (one per box)

Drinking Water   
Landfill   
Stream   
Other

Community   
Non-community   
Private   
Other

Source (raw water)   
Distribution (treated)   
MCL

Emergency   
Routine   
Recheck   
Special

Collector: R. Wolf

Telephone No.: 410-813-2645

Date Collected: 8/13/12

Time Collected: 9:00 a.m.      p.m.

Nitric Acid Preserved: Yes  No

Iced: Yes  No

Submitters Code:  Federal Project:

Field Data:      pH      Chlorine

Remarks: Sample pH preserved at 2.0

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

Date Received:      /      /     

Supervisor:     

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

Send Report To:

Bert Alden

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

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

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

**LABORATORY ANALYSIS REQUEST**

Sample Bottle No. A: H0952385 No. B: — Field Blank Bottle No. 1: FBKW81312 No B: —

Plant/Site Name: Walnut Creek - Lot (38) County: Howard

Sample Source: Benjamin's Ct. Location: H0-95-2385  
(well no, lab sink, sample tap, etc.)

County:  1  3 Plant No.

CHECK (one per box)

Drinking Water   
Landfill   
Stream   
Other

Community   
Non-community   
Private   
Other

Source (raw water)   
Distribution (treated)   
MCL

Emergency   
Routine   
Recheck   
Special

Collector: K. Wolf

Telephone No.: 410 318 2645

Date Collected: 8/8/12

Time Collected: — a.m. 12 p.m.

Nitric Acid Preserved: Yes  No

Iced: Yes  No

Submitters Code:

Federal Project:

Field Data: — pH — Chlorine

Remarks: Sample pH preserved to < 2.0

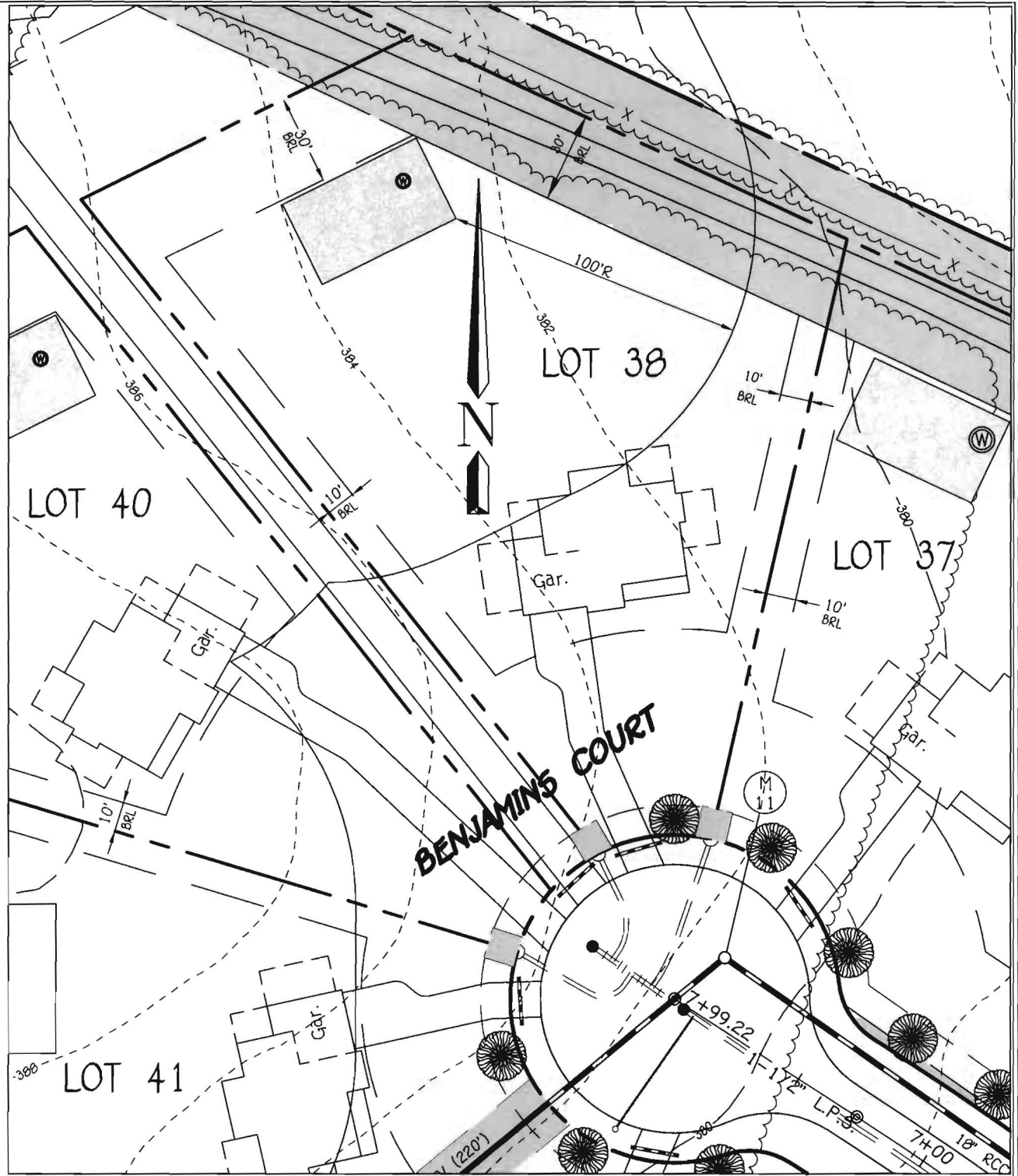
✓	Test	EPA Code	Laboratory No.	Results (pCi/L)	Date Analyzed	Date Reported
✓	Gross Alpha	4000				
✓	Gross Beta	4100				
	Radon-222 Bottle A	4004				
	Radon-222 Bottle B	4004				
	Field Blank #A	4004				
	Field Blank #B	4004				
	Tritium					
	Ra - 226	4020				
	Ra - 228	4030				
	Total Uranium	4006				

Date Received: — / — / —

Supervisor: —

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

I:\2004\04001\dwg\PHASE TWO FINALS\WELL MAPS lots 34-36,38-41, 61-63 FOR PLOTTING.dwg, LOT 38, 6/27/2012 10:48:12 AM, 1:1



**WELL LOCATION INFORMATION:**

N 573119.4969    LAT N39° 14' 25.17"  
 E 1326677.0997    LONG W76° 56' 57.72"

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

*7/2/2012*  
*Well Site*  
*Plan BB*

**LOT 38 WELL MAP**  
**WALNUT CREEK**  
**PHASE TWO**

Lots 23 - 68, Non-Buildable Preservation Parcels  
 'C', 'G', 'T', 'K', 'L' And 'M', Buildable Bulk Parcels 'E' And 'H'  
 & Non-Buildable Parcel 'J'  
 ZONED: RC-DEO & RR-DEO  
 TAX MAP No. 28    GRID Nos. 4, 5, 10-12, 17, AND 18    PARCEL No. 49  
 FIFTH ELECTION DISTRICT    HOWARD COUNTY, MARYLAND  
 DATE: JUNE 26, 2012    SCALE: 1"=50'



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. Bielensohn, 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:

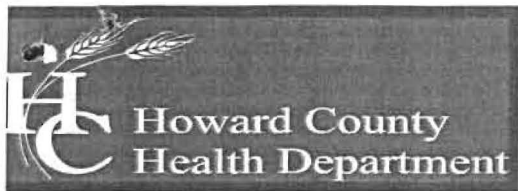
Well Site Location:

<u>Walnut Creek</u>	<u>38</u>	<u>Benjamins Court</u>
<b>Subdivision/Property Name</b>	<b>Lot #</b>	<b>Road Name</b>

- 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**



Bureau of Environmental Health

7178 Columbia Gateway Drive, Columbia, MD 21046-2147

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

Maura Rossman, M.D., Acting Health Officer

October 15, 2012

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

RE: Walnut Creek Lot 38  
Benjamin's Court  
Well Tag: HO - 95 - 2335

Dear Mr. Feaga:

A sample was collected during a yield test on August 28, 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  $< 4.0 \pm 0.0$  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 County Health Department  
Bureau of Environmental Health  
7178 Columbia Gateway Drive  
Columbia, Maryland 21046

State of Maryland  
DHMH - Laboratories Administration

Division of Environmental Chemistry  
**RADIATION LABORATORY**

12000 10/11/12  
PH 32092  
E000332 2132  
370 W. Preston Street, Baltimore, Maryland 21201  
John M. DeBoy, Dr. P. H., Director

**LABORATORY ANALYSIS REQUEST**

Sample Bottle No. A: H0952335 No. B: — Field Blank Bottle No. 1: FBKW81312 No B: —

Plant/Site Name: Walnut Creek - Lot (38) County: Howard

Sample Source: Benjamin's Ct. Location: HO-95-2335  
(well no, lab sink, sample tap, etc.)

County:  1  3 Plant No.

CHECK (one per box)

Drinking Water   
Landfill   
Stream   
Other

Community   
Non-community   
Private   
Other

Source (raw water)   
Distribution (treated)   
MCL

Emergency   
Routine   
Recheck   
Special

Collector: K. Wolf

Telephone No.: 410 313 2645

Date Collected: 8/8/12

Time Collected: — a.m. 12 p.m.

Nitric Acid Preserved: Yes  No

Iced: Yes  No

Submitters Code:

Federal Project:

Field Data: —  
pH — Chlorine —

Remarks: sample pH measured to <2.0

✓	Test	EPA Code	Laboratory No.	Results (pCi/L)	Date Analyzed	Date Reported
✓	Gross Alpha	4000	0332	<2.0	08/15/12	08/16/12
✓	Gross Beta	4100	0332	<4.0	"	"
	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: 08/13/12

Supervisor: Smea

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