

C1 26510

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)

FILL IN THIS FORM COMPLETELY PLEASE TYPE

COUNTY NUMBER 545163 E

ST/CO USE ONLY DATE RECEIVED MM 08 DD 01 YY 14

DATE WELL COMPLETED MM 01 DD 13 YY 14

Depth of Well 22 225 26 (TO NEAREST FOOT)

PERMIT NO. FROM "PERMIT TO DRILL WELL" 10-85-2622

OWNER Bassler Ventur LLC WELL SITE ADDRESS HAYLAND FARM WAY TOWN CLARKSVILLE MO SUBDIVISION WALNUT CREEK SECTION PHASE 3 LOT 90

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

GROUTING RECORD: WELL HAS BEEN GROUTED (Y), TYPE OF GROUTING MATERIAL (CM), CEMENT (CM), BENTONITE CLAY (BC), NO. OF BAGS 13, NO. OF POUNDS 350, GALLONS OF WATER 78, DEPTH OF GROUT SEAL 40.

CASING RECORD: MAIN CASING TYPE (PL), Nominal diameter top (main) casing (nearest inch) 6, Total depth of main casing (nearest foot) 42.

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

SCREEN RECORD: screen type or open hole (HO), insert appropriate code below.

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" AND IN CONFORMANCE WITH ALL CONDITIONS STATED IN THE ABOVE CAPTIONED PERMIT...

DRILLERS LIC. NO. M SDH 2 DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION) LIC. NO. D

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

C2 DEPTH (nearest ft.) HO 42 225

GRAVEL PACK IF WELL DRILLED WAS FLOWING WELL INSERT F IN BOX 66

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

TELESCOPE CASING LOG INDICATOR OTHER DATA

C3 PUMPING TEST: HOURS PUMPED (nearest hour) 3, PUMPING RATE (gal. per min.) 15, METHOD USED TO MEASURE PUMPING RATE Bucket, WATER LEVEL (distance from land surface) BEFORE PUMPING 58 ft, WHEN PUMPING 67 ft.

PUMP INSTALLED: DRILLER INSTALLED PUMP (YES) (NO), TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O) IN BOX 29, CAPACITY: GALLONS PER MINUTE (to nearest gallon) 31-35, PUMP HORSE POWER 37-41, PUMP COLUMN LENGTH (nearest ft.) 43-47, CASING HEIGHT (circle appropriate box and enter casing height) above, LAND SURFACE below 2 (nearest foot).

LATITUDE 39.24042 LONGITUDE 76.95344 (DEFAULT COORD. WGS 84) NOTES:

B 1	14997	SEQUENCE NO. (MDE USE ONLY)	STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL 545163-F please type	STATE PERMIT NUMBER HD-95-2622 fill in this form completely
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Date Received (APA) 10/13 8 MM DD YY 13	OWNER INFORMATIC Basler Venture LLC 15 East Name Owner First N. PO Box 482 36 Street or RFD Lisbon MD 21 57 Town 70 State 72	LOCATION OF WELL and + Creek ON 42 LOT 90 46 48 50 KSUMLE TOWN 71
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**DRILLER INFORMATION**

Driller's Name: Ralph Mayne MS D 117  
76 License No. 81

Firm Name: Ralph Mayne well Drilling

Address: 17024 Handy Rd Mt. Airy MD 21221

Signature: [Signature] Date: 10-4-13

B 4

SOURCES OF DRILLING WATER  
1. well  
2.  
3.

Hayland Farm way  
11 STREET ADDRESS 30

ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)  
NORTH  
WEST EAST  
SOUTH

34 480 37  
DISTANCE FROM ROAD 44  
ENTER FT OR MI 38 39

TAX MAP: 28 BLK: PARCEL 49

B 2

**WELL INFORMATION**

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

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

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

County Name: HARD COUNTY NO. 13

STATE SIGNATURE: \_\_\_\_\_ INSERT S →

DATE ISSUED: 5/10/14 EXP. DATE: 1/6/15

43 MM DD YY 48 CO SIGNATURE

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

DOMESTIC POTABLE SUPPLY & RESIDENTIAL IRRIGATION

FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION)

INDUSTRIAL, COMMERCIAL, DEWATERING

PUBLIC WATER SUPPLY WELL

TEST, OBSERVATION, MONITORING

OPEN LOOP GEOTHERMAL

CLOSED LOOP GEOTHERMAL

PROPOSED LOCATION OF WELL ON LOT  
SHOW PERMANENT STRUCTURES SUCH AS BUILDINGS, SEPTIC SYSTEM, ROADS AND/OR LANDMARKS AND INDICATE NOT LESS THAN TWO DISTANCE MEASUREMENTS TO WELL

well 480  
OC  
Hayland Farm way  
Catalpa Ct.

N  
↑

Radrem sample collected  
4/8/15 SC  
(via Ralph Mayne)

APPROXIMATE DEPTH OF WELL 150 FEET  
24 28

APPROXIMATE DIAMETER OF WELL 64 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

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

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)**

APPROP. PERMIT NUMBER HD 20026 G 020

PERMIT No. HD-95-2622  
70 71 72 73 74 75 76 77 78 79

**SPECIAL CONDITIONS** Radrem sample + VOC sample req'd 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: WILLOUGHBY PLUMBING SERVICES FM, Telephone #: 710-781-7051  
Address: 6203 PATRICK DR  
SYKESVILLE MD 21789

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

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

Name (Print): CHRIS WILLOUGHBY License# 6992

**\*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: ADNAN KHAN Telephone #: 301-490-5317  
Subdivision: WALNUT CREEK Lot #: 163 Well Tag #: HO-95-2622 ✓  
Site Address: 5320 CATALPA CT ELLICOTT CITY MD 21042

**Submersible Pump Data**

Make: GRUNDOS  
Model #: 155QE180  
Pump Capacity 10 GPM  
Well Yield: 15 GPM

**Pitless Adapter**

Make: CAMBELL  
Model#: \_\_\_\_\_  
Depth: 48" (36" min)  
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: ✓

Depth of well encountered at time of pump installation: \_\_\_\_\_ (feet)

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: CRESTLINE  
PSI: 1" (160 psi min)  
Depth of supply line: 42" (36" min)

**House Connection**

PVC sleeve to undisturbed soil at wall penetration: ✓  
Length of sleeve (5' minimum from foundation): 6'  
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: Christopher J. Willoughby date: 11/16/17

**For Health Department Use Only – Not to be completed by Installer**

Date Insp. Requested: 11/17/17 Date Insp. Approved: \_\_\_\_\_ Inspector: SG

Inspection Data: Pitless adapter watertight & water supply line at least 36" below grade ✓  
Two piece cap installed and attached to casing securely ✗ *nut missing*  
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 ✓

*Sleeve under driveway*



## Williams, Jeffrey

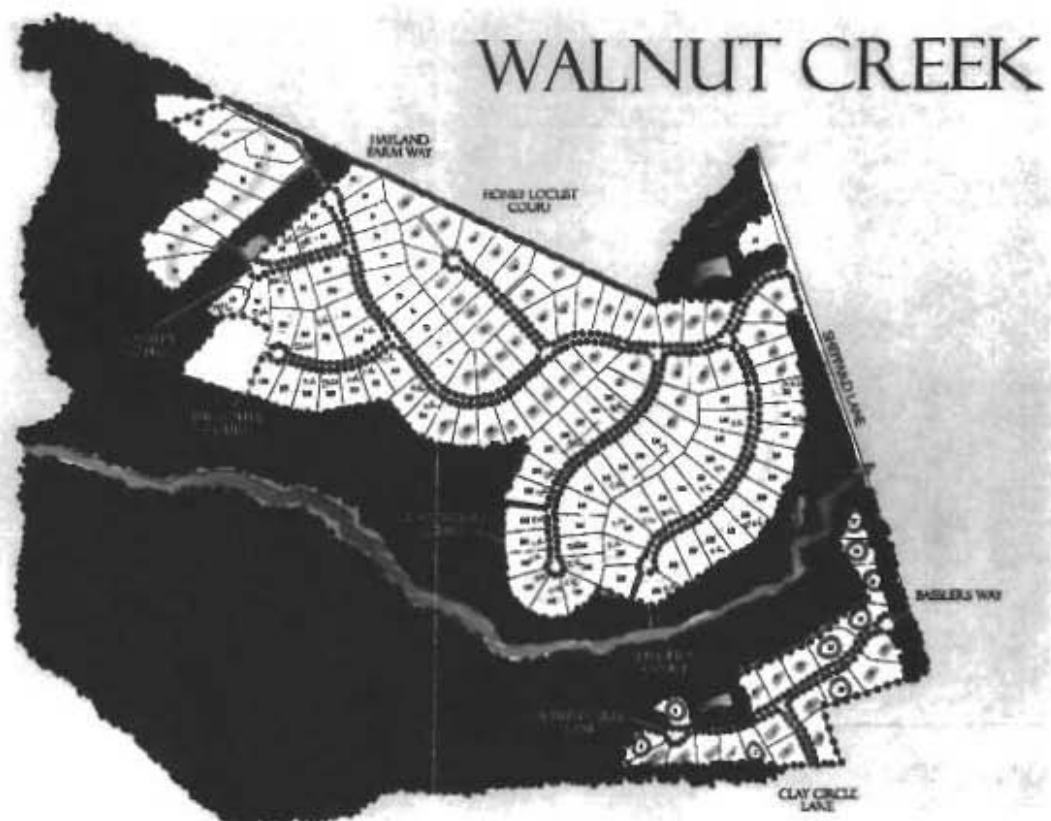
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**From:** Williams, Jeffrey  
**Sent:** Friday, May 16, 2014 12:16 PM  
**To:** Tim Feaga  
**Subject:** Walnut Creek Radium testing  
**Attachments:** Walnut Creek radium.pdf; Walnut Creek radium\_2.pdf

Hi Tim. I met with Bert regarding possible easement of radium testing at all lots in Walnut Creek. I've attached a map showing the additional lots that we would like to still be tested to ensure that there is not an area of concern in the remaining lots. The lots in the green cloud have been tested and passed. The lots in the red cloud are lots that we would like to be tested. The lots at the top corner (82-86, 90-94) fall within the radium testing boundary. We want the lots near the river tested to prove whether the stream is in fact acting as a natural buffer from the positive tests on the other side and the passing lots above them. Furthermore, we'd like some representative lots tested in the other section near the upper testing boundary to prove that there are no hot spots. If these are also passing, then we would likely be comfortable waiving the remaining.

We'd be happy to meet with you to discuss if you prefer. Thanks.

Jeff Williams  
Program Supervisor, Well & Septic Program  
Bureau of Environmental Health  
Howard County Health Dept.  
410-313-4261  
[jewilliams@howardcountymd.gov](mailto:jewilliams@howardcountymd.gov)



**INTERIM CERTIFICATE OF POTABILITY**

**Expiration Date – SEPTEMBER 16, 2018**

March 16, 2018

Homeowner  
5320 Catalpa Court  
Ellicott City, MD 21042

**RE: Walnut Creek, Lot 163**  
**5320 Catalpa Court**  
**Building Permit: B16004310**  
**Well Permit: HO-95-2622**

Dear Homeowner:

This is to advise you that the septic system installation and water well construction for the above referenced property have been inspected and approved. Final approval of the septic system was granted on **11/20/2017**. Final approval of the well line connection to the dwelling was granted on **11/17/2017**. The well construction was completed on **1/17/2014**. Water samples were collected on **3/6/2018, 3/12/2018**.

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.

Gross Alpha and Beta samples were also collected on **4/8/2015**. Results showed a Gross Alpha level of **6.1 ± 1.6 pCi/L** and Gross Beta level of **4.9 ± 1.8 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-95-2622. Although the submitted sample results are in compliance with COMAR standards, the Health Department does not guarantee water supplies.

This Interim Certificate of Potability will expire **six months** from the date of issuance. Submission of a second bacteriological test indicating the water is free of coliform and fecal coliform bacteria is required prior to the expiration date, after which time a Final Certificate of Potability will be issued. **Failure to submit an additional sample and obtain a Final Certificate of Potability will result in a Notice of Violation and is punishable as a misdemeanor under the Annotated Code of Maryland, Environment Article, 9-1311, subject to a fine of up to \$500 or imprisonment not to exceed three months.**



Bureau of Environmental Health  
8930 Stanford Blvd | Columbia, MD 21045  
410.313.2640 - Voice/Relay  
410.313.2648 - Fax  
1.866.313.6300 - Toll Free


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

Please contact (410) 313-1773 to schedule a final water sample appointment or contact a certified water quality laboratory to schedule a water sample. A list of laboratories certified by the state of Maryland may be found at the following website: <http://www.mde.state.md.us/assets/document/WSP-Labs-2010apr16.pdf>

In closing, please refer to our "Homeowner Fact Sheet" for understanding your onsite sewage disposal system. You will also find a link to Maryland Department of the Environment website which elaborates in further detail operation and maintenance of your Septic System.

Approving Authority,



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

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

**Williams, Jeffrey**

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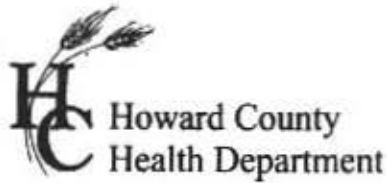
**From:** Williams, Jeffrey  
**Sent:** Wednesday, March 04, 2015 11:00 AM  
**To:** Tim Feaga (tim@heritagemaryland.com)  
**Subject:** Walnut Creek lot 90

Hi Tim. We are in the process of signing the record plat for WC phase 3 and we realized that lot 90 did not appear to get radium testing. It was one of the lots on the upper section that we agreed to have tested. We are not holding up plat signature for this, I just wanted to give you a heads up that it will need to be tested at some point prior to the well being put into service for a house on that lot. If you have results for that lot and we somehow missed getting them into our lot file, please forward them to me and I'll put them in there. Thanks

Jeff Williams  
Program Supervisor, Well & Septic Program  
Bureau of Environmental Health  
Howard County Health Dept.  
410-313-4261  
[jewilliams@howardcountymd.gov](mailto:jewilliams@howardcountymd.gov)

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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

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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:

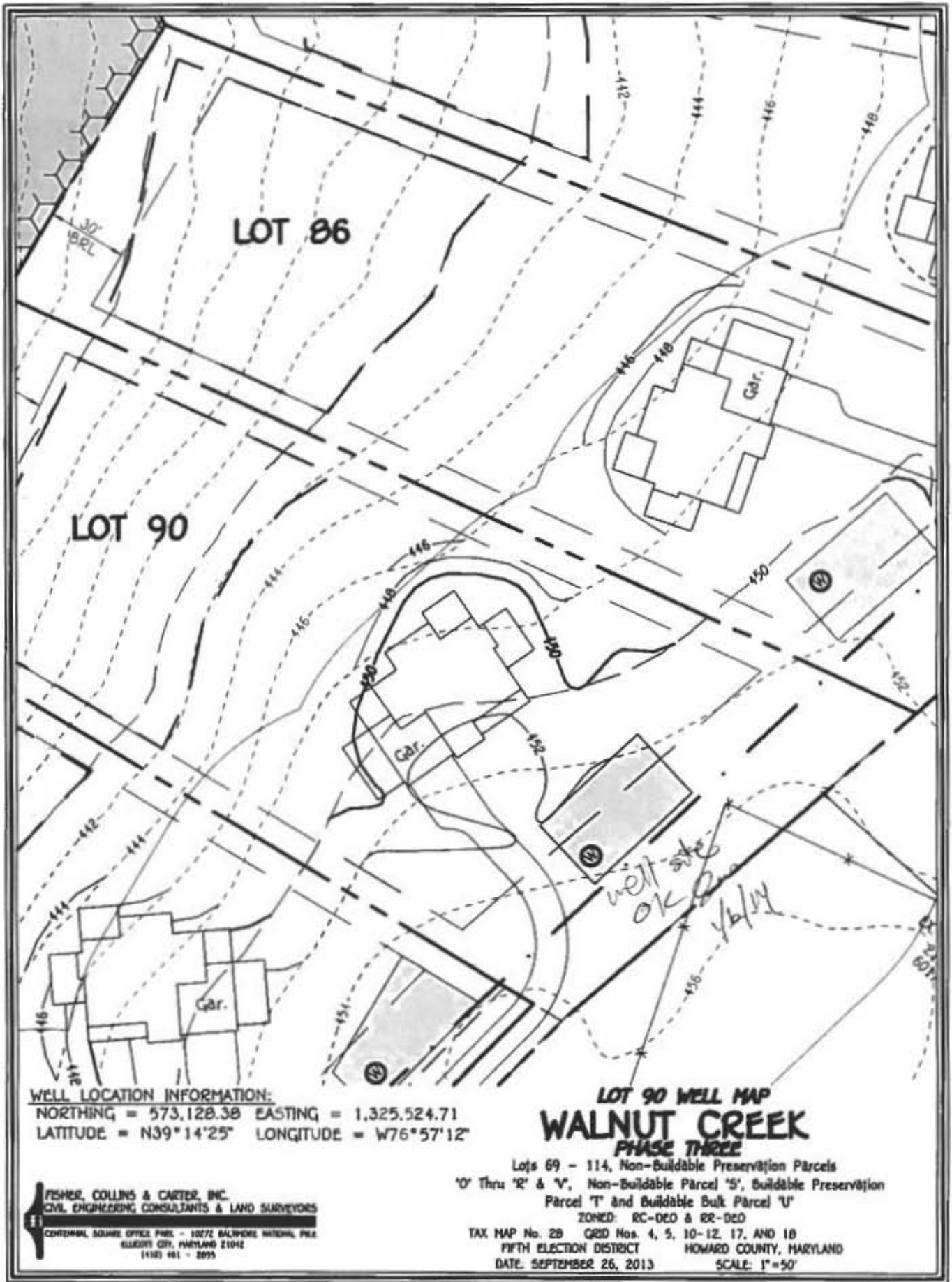
Well Site Location:

Walnut Creek (Phase Three)	90	Hayland Farm Way
<b>Subdivision/Property Name</b>	<b>Lot #</b>	<b>Road Name</b>

- The well site has been staked by Fisher Collins and Carter,  
(professional land surveyor or company employing professional land surveyors)  
on Sept. 19, 2013 (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



**WELL LOCATION INFORMATION:**  
 NORTHING = 573,128.38 EASTING = 1,325,524.71  
 LATITUDE = N39°14'25" LONGITUDE = W76°57'12"

**FISHER, COLLINS & CARTER, INC.**  
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
 CENTRAL SQUARE OFFICE BLDG. - 10772 BALFOUR NATIONAL PKWY.  
 ELLESDOTT CITY, MARYLAND 21042  
 (410) 481 - 2095

**LOT 90 WELL MAP  
 WALNUT CREEK  
 PHASE THREE**

Lots 69 - 114, Non-Buildable Preservation Parcels  
 'O' Thru 'R' & 'V', Non-Buildable Parcel 'S', Buildable Preservation  
 Parcel 'T' and Buildable Bulk Parcel 'U'  
 ZONED: RC-DEO & RR-DEO  
 TAX MAP No. 28 GRID Nos. 4, 5, 10-12, 17, AND 18  
 FIFTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
 DATE: SEPTEMBER 26, 2013 SCALE: 1"=50'

**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 #:	120308	Account #:	1933
Reference:	Fogles Well Pump/Water Treatment	Company:	Fogles Well Pump/Water Treatment
Location:	5320 Catalpa Court Ellicott City, MD 21042	Requested By:	Dave Fogle
Date/ Time Collected:	3/6/2018 1152	Source:	Well Water
Date/Time Rec'd:	3/6/2018 1340	Site:	Pressure Tank
Chlorine ppm:	Free: ND Total: ND	Treatment:	None
Collected By:	J. Fogle 1974JF	pH:	5.8
		Well #:	HO-95-2622

PARAMETERS	RESULTS	UNITS	REFERENCE	METHOD	DATE/TIME/ANALYST
Bacteria, Coliform, Total, MPN	1.0	MPN/ 100 ml	<1.0	SM20 9223	3/7/2018 / 0900 / CCH
Bacteria, E. coli, MPN	<1.0	MPN/ 100 ml	<1.0	SM20 9223	3/7/2018 / 0900 / CCH
Nitrate	3.13	mg/L	10	601	3/6/2018 / 1615 / CRS
Turbidity	0.91	NTU	<10	SM20 2130B	3/6/2018 / 1630 / CRS
Sand	NS	mg/L	5	Visual/Gravimetric	3/6/2018 / 1630 / 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

**Reason for Test :** Use & Occupancy**Building Permit # :** 16004310Date Reported: 3/7/2018

# 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 #: 120458 Account #: 1933  
Reference: Cairn Custom Homes Company: Fogles Well Pump/Water Treatment  
Location: 5320 Catalpa Court Requested By: Dave Fogle  
Ellicott City, MD 21042 Source: Well Water  
Date/ Time Collected: 3/12/2018 1230 Site: Kitchen Sink Tap  
Date/Time Rec'd: 3/12/2018 1520 Treatment: None  
Chlorine ppm: Free: ND Total: ND pH: 5.9  
Collected By: A. Berchok 1233AB Well #: HO-95-2622

PARAMETERS	RESULTS	UNITS	REFERENCE	METHOD	DATE/TIME/ANALYST
Bacteria, Coliform, Total, MPN	<1.0	MPN/ 100 ml	<1.0	SM20 9223	3/13/2018 / 1000 / CRS
Bacteria, E. coli, MPN	<1.0	MPN/ 100 ml	<1.0	SM20 9223	3/13/2018 / 1000 / CRS

### NOTES

- 1 MPN: 100 ml - Most Probable Number [of viable bacteria] per 100 ml of sample.
- 2 Results less than or within the reference range are considered satisfactory and within potable water limits at the time of sampling.
- 3 Sample collected by client, analyzed as received
- 4 ND:None Detected
- 5 Visual well check: Sealed, vented cap
- 6 pH and Chlorine level tested in lab

Reason for Test : Use & Occupancy  
Building Permit # : 16004310

Date Reported: 3/13/2018

Reviewed By:



**FOUNTAIN VALLEY ANALYTICAL LABORATORY, INC.**

1413 Old Taneytown Rd. • Westminster, MD 21158 • MD State Certification #133  
(410) 848-1014 • (410) 876-4554 • FAX (410) 848-0298

**VOLATILE ORGANIC WATER ANALYSIS REPORT**

**LAB ID # 120309**

Location:	5320 Catalpa Court Ellicott City, MD 21042	Work Order #:	84029
Date & Time Collected:	3/6/18 1152	Requested by:	Fogle's Well Drilling
Collected by:	J. Fogle 1974JF	Source:	Well, HO-95-2622
		Site:	Pressure Tank
		Treatment:	None

CONTAMINANT	EPA CONT ID	MCL (PPB)	ACTUAL LEVEL	CONTAMINANT	EPA CONT ID	ACTUAL LEVEL
<b>REGULATED</b>				<b>UNREGULATED</b>		
Benzene	2990	5	ND	Bromobenzene	2993	ND
Carbon Tetrachloride	2982	5	ND	Bromochloromethane	2430	ND
o-Dichlorobenzene	2968	600	ND	Bromomethane	2214	ND
p-Dichlorobenzene	2969	75	ND	n-Butylbenzene	2422	ND
1,2-Dichloroethane	2980	5	ND	Sec-butylbenzene	2428	ND
1,1-Dichloroethene	2977	7	ND	Tert-butylbenzene	2426	ND
cis-1,2-Dichloroethene	2380	70	ND	Chloroethane	2216	ND
trans-1,2-Dichloroethene	2979	100	ND	o-Chlorotoluene	2965	ND
Dichloromethane	2964	5	ND	p-Chlorotoluene	2966	ND
1,2-Dichloropropane	2983	5	ND	m-Dichlorobenzene	2967	ND
Ethylbenzene	2992	700	ND	1,1-Dichloroethane	2978	ND
Monochlorobenzene	2989	100	ND	1,3-Dichloropropane	2412	ND
Styrene	2996	100	ND	2,2-Dichloropropane	2416	ND
Tetrachloroethene (PCE)	2987	5	ND	1,1-Dichloropropene	2410	ND
<b>Toluene</b>	<b>2991</b>	<b>1000</b>	<b>0.58</b>	cis-1,3-Dichloropropene	2413	ND
1,2,4-Trichlorobenzene	2378	70	ND	trans-1,3-Dichloropropene	2413	ND
1,1,1-Trichloroethane	2981	200	ND	Dichlorodifluoromethane	2212	ND
1,1,2-Trichloroethane	2985	5	ND	Hexachlorobutadiene	2246	ND
Trichloroethene (TCE)	2984	5	ND	Isopropylbenzene	2994	ND
Vinyl Chloride	2976	2	ND	p-Isopropyltoluene	2030	ND
Xylenes (Total)	2955	10000	ND	MTBE	2251	ND
				Naphthalene	2248	ND
				n-Propylbenzene	2998	ND
<b>TRIHALOMETHANES</b>				1,1,1,2-Tetrachloroethane	2986	ND
Bromodichloromethane	2943		ND	1,1,2,2-Tetrachloroethane	2988	ND
Bromoform	2942		ND	1,2,3-Trichlorobenzene	2420	ND
Chloroform	2941		ND	Trichlorofluoromethane	2218	ND
Dibromochloromethane	2944		ND	1,2,3-Trichloropropane	2414	ND
				1,2,4-Trimethylbenzene	2418	ND
<b>ADDITIONAL COMPOUNDS</b>				1,3,5-Trimethylbenzene	2424	ND
<b>TAME</b>			ND	m, p-xylene	2995	ND
Chloromethane			ND	o-xylene	2997	ND
Dibromomethane			ND			

**NOTES:**

- 1) MCL: Maximum Contaminant Level
- 2) Detection Limits: 0.50 PPB
- 3) ND: None Detected
- 4) PPB: Parts Per Billion (micrograms per liter)
- 5) Sub-contracted to Lab #128, method EPA 524.2, Date Analyzed: 3/14/18, Tech: CJG

Date Reported: 3/15/18



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

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

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

April 29, 2015

**Bassler Venture  
Attn. Tim Feaga  
15950 North Avenue, P.O. Box 482  
Lisbon, Maryland 21765**

**RE: Walnut Creek Lot 90 (Phase III)  
Hayland Farm Way  
Well Tag: HO - 95 - 2622**

Dear Mr. Feaga:

A sample was collected during a yield test on April 8, 2015 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  $6.1 \pm 1.6$  picocuries/liter (pCi/L), while the **Gross Beta** level was  $4.9 \pm 1.8$  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 is **within** 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: Property file

SEND REPORT TO: Bert Nixon  
 Howard County Health Dept.  
 Bureau of Environmental Health  
 Calum 8930 Stanford Blvd.  
 Columbia, MD 21045

DEPARTMENT OF HEALTH AND MENTAL HYGIENE  
 Laboratories Administration  
 201 W. Preston St., Baltimore, MD 21201  
 Robert A. Myers, Ph.D., Director

Lab No.  
 0001947 2-012

RADIATION ANALYSIS REQUEST FORM

Plant/Site Name: Walnut Creek - Lot 90 County: Howard

Sample Source: Hayland Farm Way Location: HO-95-2622

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

Radon-222 Bottle A \_\_\_\_\_ Radon-222 Field Blank Bottle A \_\_\_\_\_  
 Bottle B \_\_\_\_\_ Bottle B \_\_\_\_\_

County 13 Plant No. \_\_\_\_\_

CHECK (one per Box)

Type	
Drinking Water	<input checked="" type="checkbox"/>
Landfill	<input type="checkbox"/>
Stream	<input type="checkbox"/>
Other	<input type="checkbox"/>

Service	
Community	<input type="checkbox"/>
Non-Community	<input type="checkbox"/>
Private	<input checked="" type="checkbox"/>
Other	<input type="checkbox"/>

Point of Collection	
Source (Raw)	<input checked="" type="checkbox"/>
Distribution (treated)	<input type="checkbox"/>
MCL	<input type="checkbox"/>

Testing	
Emergency	<input type="checkbox"/>
Routine	<input checked="" type="checkbox"/>
Recheck	<input type="checkbox"/>
Special	<input type="checkbox"/>

Submitters Code: \_\_\_\_\_ Federal Project: 5

Collector: S. Collins 410-313-6287 Telephone No.: 410-313-6287

Date Collected: 4/8/15 Time Collected: 9:30 a.m. \_\_\_\_\_ p.m.

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

Nitric Acid Preserved: Yes  No  Iced: Yes  No

Remarks: Sample taken during yield test

TEST	EPA Code	Lab No.	Method No.	Results (pCi/L)	Date Analyzed	Analyst	Date Reported
<input checked="" type="checkbox"/> Gross Alpha	4000	1947	EPA900.0	6.1 ± 1.6	4/9/15	WT	4/12/15
<input checked="" type="checkbox"/> Gross Beta	4100	1947	EPA900.0	4.9 ± 1.8	4/9/15	WT	4/13/15
<input type="checkbox"/> Radium-226	4020						
<input type="checkbox"/> Radium-228	4030						
<input type="checkbox"/> Total Uranium	4006						
<input type="checkbox"/> Radon-222 (Bottle A)	4004						
<input type="checkbox"/> Radon-222 (Bottle B)	4004						
<input type="checkbox"/> Radon Field Blank A	4004						
<input type="checkbox"/> Radon Field Blank B	4004						
<input type="checkbox"/> Tritium							
<input type="checkbox"/>							

Date Received: 4/8/15 Received By: Kathy Jones  
 Data Release Signature: Rebecca Miller - JWC Date: 4/13/15

Lab Use Only	Yes	No	N/A
Sample Intact upon arrival?	<input checked="" type="checkbox"/>		
Sample pH < 2.0?	<input checked="" type="checkbox"/>		
Received within holding time?	<input checked="" type="checkbox"/>		

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

SEND REPORT TO: Bert Nixon  
 Howard County Health Dept.  
 Bureau of Environmental Health  
 6930 Stanford Blvd.  
 Columbia, MD 21045

DEPARTMENT OF HEALTH AND MENTAL HYGIENE  
 Laboratories Administration  
 201 W. Preston St., Baltimore, MD 21201  
 Robert A. Myers, Ph.D., Director

Lab No. 1946-8

RADIATION ANALYSIS REQUEST FORM

Plant/Site Name: Field Blank ~~Water Creek~~ ~~Lot 9~~ HCHD Lab County: Howard

Sample Source: dH<sub>2</sub>O Location: HCHD Lab  
(Well no., lab sink, sample tap, etc.)

Radon-222 Bottle A \_\_\_\_\_ Radon-222 Field Blank Bottle A \_\_\_\_\_  
 Bottle B \_\_\_\_\_ Bottle B \_\_\_\_\_

County 13 Plant No. \_\_\_\_\_

CHECK (one per Box)

Type	Service	Point of Collection	Testing
Drinking Water <input checked="" type="checkbox"/>	Community <input type="checkbox"/>	Source (Raw) <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"/>

Submitters Code: \_\_\_\_\_ Federal Project: 5

Collector: S. Collins Telephone No.: 410-313-6287

Date Collected: 4/8/15 Time Collected: 10 a.m. \_\_\_\_\_ p.m.

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

Nitric Acid Preserved: Yes  No  Iced: Yes  No

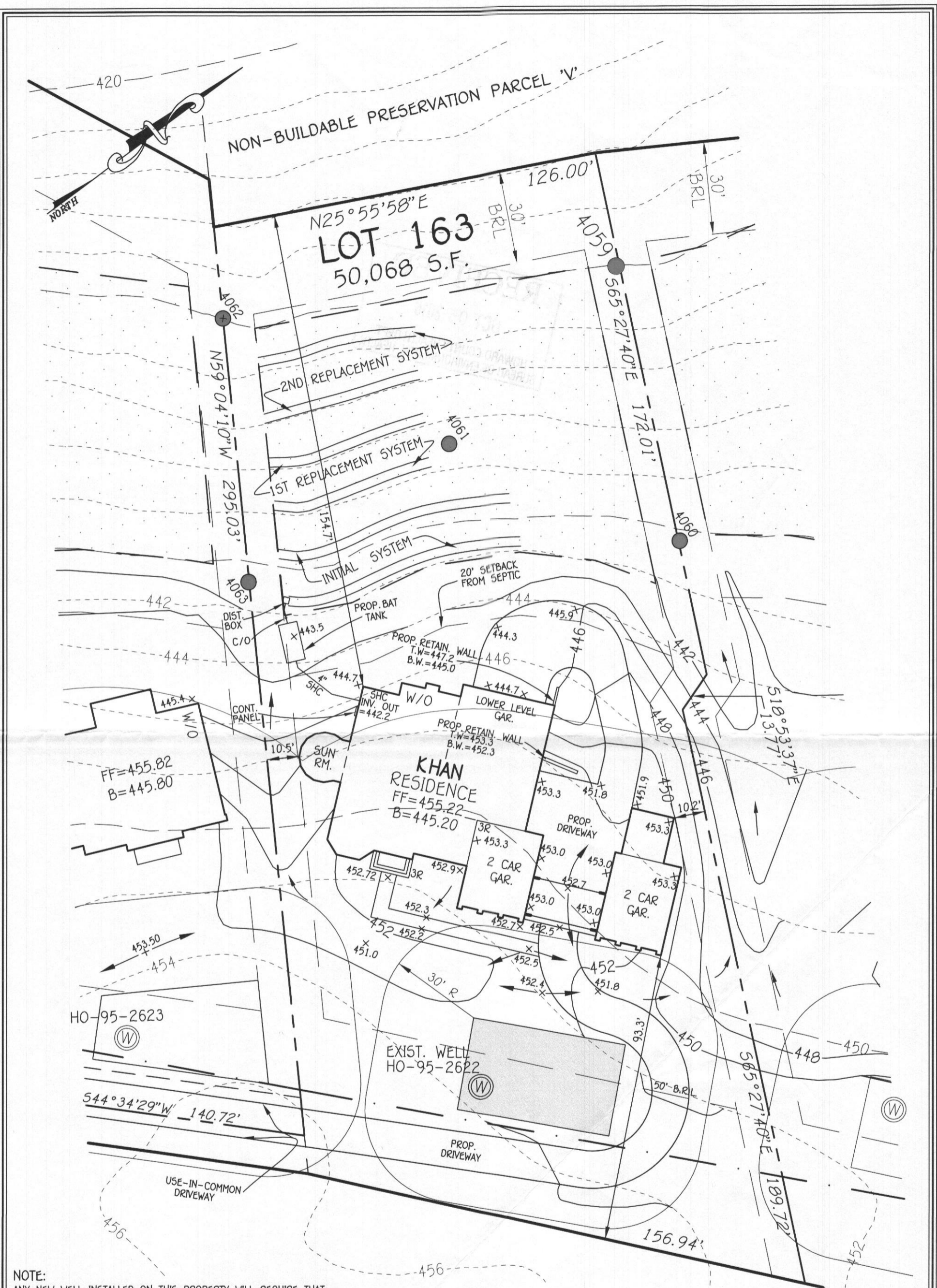
Remarks: \_\_\_\_\_

✓	TEST	EPA Code	Lab No.	Method No.	Results (pCi/L)	Date Analyzed	Analyst	Date Reported
✓	Gross Alpha	4000	1946	EPA 900.0	<2.0	4/9/15	WT	4/13/15
✓	Gross Beta	4100	1996	EPA 900.0	<4.0	4/9/15	WT	4/13/15
<input type="checkbox"/>	Radium-226	4020						
<input type="checkbox"/>	Radium-228	4030						
<input type="checkbox"/>	Total Uranium	4006						
<input type="checkbox"/>	Radon-222 (Bottle A)	4004						
<input type="checkbox"/>	Radon-222 (Bottle B)	4004						
<input type="checkbox"/>	Radon Field Blank A	4004						
<input type="checkbox"/>	Radon Field Blank B	4004						
<input type="checkbox"/>	Tritium							
<input type="checkbox"/>								

Date Received: 4/8/15 Received By: Kathy Jones  
 Data Release Signature: Deborah Miller-Jones Date: 4/13/15

Lab Use Only	Yes	No	N/A
Sample Intact upon arrival?	<input checked="" type="checkbox"/>		
Sample pH <2.0?	<input checked="" type="checkbox"/>		
Received within holding time?	<input checked="" type="checkbox"/>		

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



NOTE:  
 ANY NEW WELL INSTALLED ON THIS PROPERTY WILL REQUIRE THAT BOLLARDS OR LARGE LANDSCAPING ROCKS BE INSTALLED TO PROTECT THAT NEW WELL, IF IT CLOSER THAN 10 FT. TO THE EDGE IF THE DRIVEWAY.

**PLAN**  
 SCALE: 1"=30'

**PERMIT SITE PLAN**  
 LOT 163  
 5320 CATALPA COURT  
**WALNUT CREEK**

ZONED: RC-DEO  
 TAX MAP NO.: 28 PARCEL NO. 49 GRID NO.: 17 & 18  
 SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
 SCALE: 1" = 30' DATE: SEPT. 20, 2016

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

**WELL CERTIFICATION:**  
 THE EXISTING WELL, TAG NO. HO-95-2622, HAS BEEN FIELD LOCATED AND IS ACCURATELY SHOWN.