

C1 9018 SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND WELL COMPLETION REPORT FILL IN THIS FORM COMPLETELY PLEASE TYPE

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

1 2 3 4 5 6 (THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)

COUNTY NUMBER

ST/CO USE ONLY DATE RECEIVED MM DD YY

DATE WELL COMPLETED MM DD YY 5 20 09

Depth of Well 22 300 28 (TO NEAREST FOOT) 10/7/09 OK (WV)

PERMIT NO. FROM "PERMIT TO DRILL WELL" HO-95-1736

OWNER Ziegler NATALIE last name first name STREET OR RFD Manor Lane TOWN ELLICOTT CITY SUBDIVISION Carroll-Ziegler PROSECTON LOT 5

WELL LOG Not required for driven wells

STATE THE KIND OF FORMATIONS PENETRATED, THEIR COLOR, DEPTH, THICKNESS AND IF WATER BEARING

Table with columns: DESCRIPTION (Use additional sheets if needed), FEET (FROM, TO), check if water bearing. Rows: red x Brown Soil (0-11), Brown Shale (11-47), Gray Limestone (47-300)

GROUTING RECORD yes no

WELL HAS BEEN GROUTED (Circle Appropriate Box) [Y] [N] TYPE OF GROUTING MATERIAL (Circle one) CEMENT [CM] BENTONITE CLAY [BC] NO. OF BAGS 15 NO. OF POUNDS 1410 GALLONS OF WATER 90 DEPTH OF GROUT SEAL (to nearest foot) from 0 ft. to 49 ft.

CASING RECORD

MAIN CASING TYPE [ST] Nominal diameter top (main) casing (nearest inch) 06 Total depth of main casing (nearest foot) 56

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

SCREEN RECORD

screen type or open hole (insert appropriate code below) [ST] [BR] [HO] [PL] [OT]

NUMBER OF UNSUCCESSFUL WELLS: 0

WELL HYDROFRACTURED [Y] [N]

CIRCLE APPROPRIATE LETTER A A WELL WAS ABANDONED AND SEALED WHEN THIS WELL WAS COMPLETED E ELECTRIC LOG OBTAINED P TEST WELL CONVERTED TO PRODUCTION WELL

I HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN ACCORDANCE WITH COMAR 26.04.04 "WELL CONSTRUCTION" AND IN CONFORMANCE WITH ALL CONDITIONS STATED IN THE ABOVE CAPTIONED PERMIT, AND THAT THE INFORMATION PRESENTED HEREIN IS ACCURATE AND COMPLETE TO THE BEST OF MY KNOWLEDGE.

DRILLERS LIC. NO. MSD 009 DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION)

LIC. NO. D

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

DEPTH (nearest ft.)

Table with columns: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100. Values: 110, 56, 300

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 70 72 74 75 76 TELESCOPE CASING LOG INDICATOR OTHER DATA

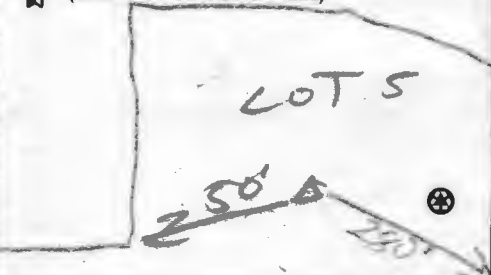
C 3 PUMPING TEST

HOURS PUMPED (nearest hour) 03 PUMPING RATE (gal. per min.) 7.5 METHOD USED TO MEASURE PUMPING RATE 190L WATER LEVEL (distance from land surface) BEFORE PUMPING 25 ft. WHEN PUMPING 86 ft. TYPE OF PUMP USED (for test) [A] air [P] piston [T] turbine [C] centrifugal [R] rotary [O] other [J] jet [SI] submersible

PUMP INSTALLED

DRILLER INSTALLED PUMP (CIRCLE) (YES or NO) YES [NO] IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS. TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O) IN BOX 29 CAPACITY: GALLONS PER MINUTE (to nearest gallon) 31 35 PUMP HORSE POWER 37 41 PUMP COLUMN LENGTH (nearest ft.) 43 47 CASING HEIGHT (circle appropriate box and enter casing height) [+] above [] below LAND SURFACE 02 (nearest foot)

LOCATION OF WELL ON LOT SHOW PERMANENT STRUCTURE SUCH AS BUILDING, SEPTIC TANKS, AND /OR LANDMARKS AND INDICATE NOT LESS THAN TWO DISTANCES (MEASUREMENTS TO WELL)



B 1 5690

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND PERMIT TO DRILL WELL

STATE PERMIT NUMBER

#0-95-1736 fill in this form completely

530 290 please print or type

Date Received (APA)

OWNER INFORMATION

2iegler, Natalie 4288 Manor Lane Ellicott City Md 21042

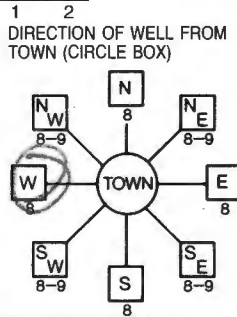
B 3 LOCATION OF WELL

Howard Carroll-Ziegler Property Ellicott City

DRILLER INFORMATION

Allen Compton Eagle's Well Drilling 6003 Woodbine Rd

B 4 DIRECTION OF WELL FROM TOWN (CIRCLE BOX)



3841 Manor Lane

ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)



DISTANCE FROM ROAD ENTER FT OR MI

TAX MAP: 23 BLK: PARCEL 130

B 2 WELL INFORMATION

APPROX. PUMPING RATE 500 AVERAGE DAILY QUANTITY NEEDED 500

USE FOR WATER (CIRCLE APPROPRIATE BOX)

- Domestic Potable Supply & Residential Irrigation (D) Farming (F) Industrial (I) Public Water Supply Well (P) Test (T) Geo-Thermal (G)

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL

Howard AS2323P COUNTY NAME COUNTY NO. STATE SIGNATURE DATE ISSUED 1/28/09 CO SIGNATURE EXP. DATE 1/28/10

APPROXIMATE DEPTH OF WELL 300 FEET

APPROXIMATE DIAMETER OF WELL 6 INCH

METHOD OF DRILLING (circle one)

- Bored (or Augered) AIR-ROTary Jetted & Driven JETTED 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 (N) This well will replace a well that will be abandoned and sealed (Y) This well will replace a well that will be used as a standby (S) This well will deepen an existing well (D)

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

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

APPROX. PERMIT NUMBER 54 G A P 63 PERMIT No. #0-95-1736

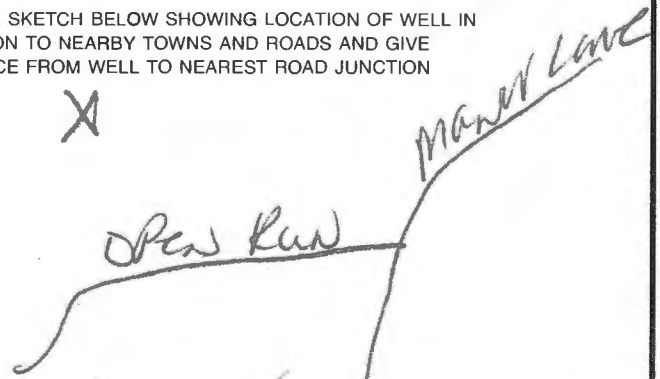
SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X

- SOURCES OF DRILLING WATER 1. 2. 3.

WRITE THE BOX NUMBER FROM THE MAP HERE

E 82019 N 57016

DRAW A SKETCH BELOW SHOWING LOCATION OF WELL IN RELATION TO NEARBY TOWNS AND ROADS AND GIVE DISTANCE FROM WELL TO NEAREST ROAD JUNCTION



SPECIAL CONDITIONS

NOTE - APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED Radium sample needed at 1/2 mile Test

MD Well Permit #: H0-95-1736

Date of Test: 5-20-09

Subdivision Name: Carrall Ziegler

Section: _____ Lot # 5

Street Address: Manor Lane

Measuring Point (MP) Description: Top of casing
(for ex. "Top of casing")

Distance from MP to ground surface 2 ft.

Well Depth: 300 ft.

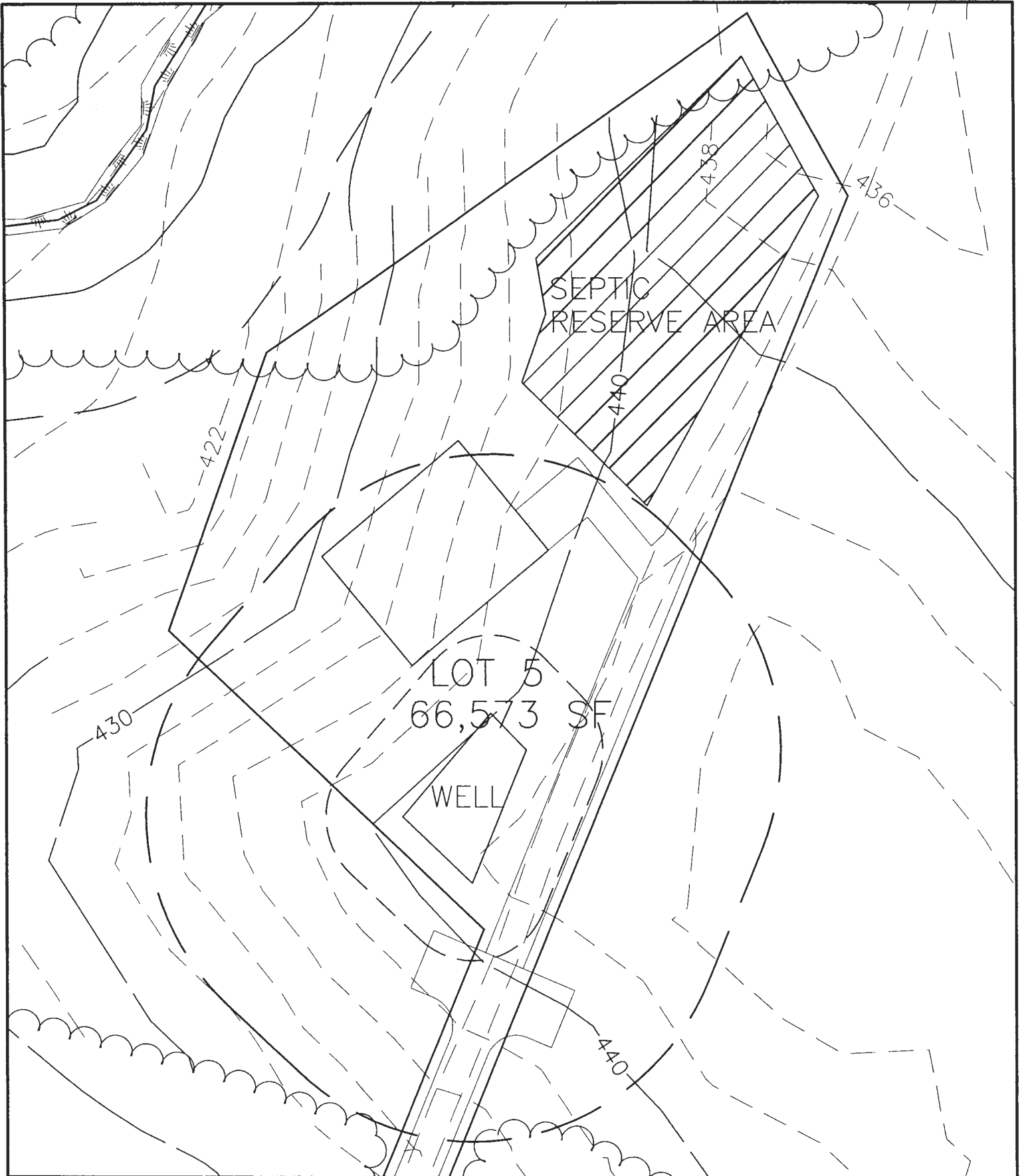
Well Driller: Fogle's Well Drilling

Must be submitted with the State of Maryland Well Completion Report

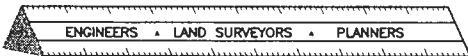
Submit to: _____

Pump Start Time	Static Water level	Pumping Rate	Calculated Flow
	<u>25</u> ft.	() Time to fill _____ gal. bucket () Flow meter reading (if used)	(gallons per minute)
<u>8:00</u>			<u>15</u>
TIME	WATER LEVEL BELOW M.P.		
Water level and pumping rate must be recorded every 15 minutes			
1	<u>8:00</u>	<u>25</u> ft.	<u>4</u> <u>15</u> GPM
2	<u>8:15</u>	<u>86</u> ft.	<u>6</u> <u>10</u> GPM
3	<u>8:30</u>	<u>86</u> ft.	<u>8</u> <u>7.5</u> GPM
4	<u>8:45</u>	<u>86</u> ft.	<u>8</u> <u>7.5</u> GPM
5	<u>9:00</u>	<u>86</u> ft.	<u>8</u> <u>7.5</u> GPM
6	<u>9:15</u>	<u>86</u> ft.	<u>8</u> <u>7.5</u> GPM
7	<u>9:30</u>	<u>86</u> ft.	<u>8</u> <u>7.5</u> GPM
8	<u>9:45</u>	<u>86</u> ft.	<u>8</u> <u>7.5</u> GPM
9	<u>10:00</u>	<u>86</u> ft.	<u>8</u> <u>7.5</u> GPM
10	<u>10:15</u>	<u>86</u> ft.	<u>8</u> <u>7.5</u> GPM
11	<u>10:30</u>	<u>86</u> ft.	<u>8</u> <u>7.5</u> GPM
12	<u>10:45</u>	<u>86</u> ft.	<u>8</u> <u>7.5</u> GPM
13	<u>11:00</u>	<u>86</u> ft.	<u>8</u> <u>7.5</u> GPM
14	<u>11:15</u>	<u>86</u> ft.	<u>8</u> <u>7.5</u> GPM
15	<u>11:30</u>	<u>86</u> ft.	<u>8</u> <u>7.5</u> GPM
16		ft.	GPM
17		ft.	GPM
18		ft.	GPM
19		ft.	GPM
20		ft.	GPM
21		ft.	GPM
22		ft.	GPM
23		ft.	GPM
24		ft.	GPM
25		ft.	GPM
26		ft.	GPM
27		ft.	GPM
28		ft.	GPM
29		ft.	GPM
30		ft.	GPM

NOTES:



BENCHMARK



ENGINEERING, INC.

8480 BALTIMORE NATIONAL PIKE • SUITE 418 • ELLICOTT CITY, MD 21043

PHONE: 410-465-6105

FAX: 410-465-6644

P:\1708\dwg\7000S2.dwg, EXHIBIT LOTS, 11/5/2008 9:50:06 AM,

Wp, McENR\GAL\Bcyocera CS-3636 KXX, 1:1

WELL EXHIBIT
CARROLL-ZIEGLER PROPERTY

LOT 5

THIRD ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

SCALE: 1" = 50' DATE: 11/03/2008



Bureau of Environmental Health
 7178 Columbia Gateway Drive, Columbia, MD 21046-2147
 (410) 313-2640 Fax (410) 313-2648
 TDD (410) 313-2323 Toll Free 1-866-313-6300
 website: www.hchealth.org

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

TO ALL INTERESTED PARTIES

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

Well Site Location:

Carroll-Ziegler Prop. 2 Hru 7 + PP "L" 3841 Manor Lane
Subdivision/Property Name Lot# Road Name

- The well site has been staked by Benchmark Engineering, Inc.
 (professional land surveyor or company employing professional land surveyors)
 on 2-1-09 (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 3/11/05



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

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: Fogle's Well Pump + Water Treatment, LLC Telephone #: 410-795-1535
 Address: P.O. Box 63
 Woodbine, Maryland 21797
Must circle one: Licensed Plumber / Licensed Well Driller / Licensed Well Pump Installer
 License # and name of individual responsible for the field installation:
 Name (Print): Dave C. Fogle 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: Fahaed Siddiqui Telephone #: _____
 Subdivision: _____ Lot #: _____ Well Tag #: HO-95-1736
 Site Address: 4890 Castlebridge Rd
Ellicott City, MD 21042

Submersible Pump Data

Make: Grundfos
 Model #: ISS0507-180
 Pump Capacity: 15
 Well Yield: 7.5
 Depth of well encountered at time of pump installation: 300 (feet)

Pitless Adapter

Make: Campbell
 Model#: N/A
 GPM Depth: 36" (36" min)
 GPM NSF/WSC approved: yes

Well Cap and Electric Conduit

Two piece watertight cap: yes
 Screened, vented well cap: yes
 Cap secured to casing: yes
 Conduit min 18" B.G.: yes
 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

Must circle one: Torque arrestors / Cable guards / Other acceptable method used

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

Piping to house

Type: 1" poly pipe
 PSI: 200 psi (160 psi min)
 Depth of supply line: 36" (36" min)

House Connection

PVC sleeve to undisturbed soil at wall penetration: yes
 Length of sleeve (5' minimum from foundation): 6'
 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: [Signature]

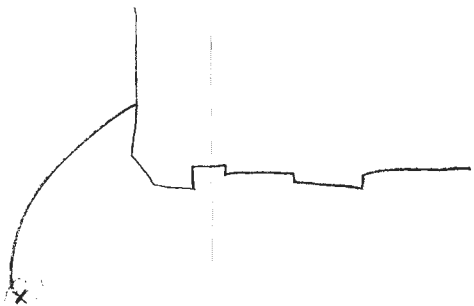
Date: 11/18/2024

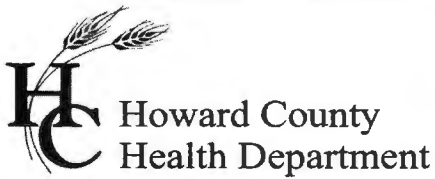
For Health Department Use Only - Not to be completed by Installer

Date Insp. Requested: 11/18/2024 Date Insp. Approved: 11/18/2024 Inspector: _____
 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

SP	
✓	48"
✓	
✓	44"
✓	
✓	
✓	hydraulic cement
✓	

(Revised form 10/24/2018)





Bureau of Environmental Health
7178 Columbia Gateway Drive, 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. Beilenson, M.D., M.P.H., Health Officer

Thursday, March 13, 2008

IMPORTANT

MEMORANDUM

To: FILE

From: Sara Sappington, R.S.
Well and Septic Program

Re: Carroll Ziegler Lots 3, 4, 5

Wells located on the referenced lots may need special conditions on the well permits due to their locations.

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

INTERIM CERTIFICATE OF POTABILITY
PERMANENT DEVIATION FOR RADIUM
Expiration Date – OCTOBER 23, 2025

April 23, 2025

Homeowner
4890 Castlebridge Road
Ellicott City, MD 21042

RE: Carroll Ziegler Property, Lot 5
4890 Castlebridge Road
Building Permit: B18001872
Well Permit: HO-95-1736

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 **11/28/2024**. Final approval of the well line connection to the dwelling was granted on **1/18/2024**. The well construction was completed on **5/20/2009**. Water samples were collected on **2/2/2024**.

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 **3/24/2025**. Results showed a Gross Alpha level of **16.6 ± 1.3 pCi/L** and a Gross Beta level of **12.6 ± 1.6 pCi/L**. **This exceeds the maximum contaminant level (MCL)** of 15 pCi/L for Gross Alpha and the Gross Beta was below the target level of 50pCi/L (roughly equivalent to the annual dose rate of 4 millirems per year).

After installation of a radionuclide removal device (water softener), post-treatment water samples were collected on **4/14/2025** and indicated a combined Radium 226/228 level of **1.7 pCi/L +/- pCi/L** which is below the MCL of 5 pCi/L.

This Department will grant a **permanent deviation** to the Interim Certificate of Potability on condition that the radionuclide removal system effectively maintains a Gross Alpha level of less than **15 pCi/L**, a Gross Beta level of less than **50 pCi/L**, and a Radium 226/228 level of less than **5 pCi/L**.

Furthermore, it will be necessary for you to comply with the following conditions:

1. The system must be properly operated and maintained continuously in accordance with the service contract for the life of the residence.
2. It is recommended that a Maryland certified water laboratory certified for radionuclide analysis perform a yearly radionuclide analysis.

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

3. If you decide to sell or rent your home in the future, you must make any potential buyer/tenant aware of this permanent deviation. **A person who fails to make this disclosure is subject to the penalties set out in COMAR 26.04.04.12F Enforcement and Environment Article 9-1311, Annotated Code of Maryland.**

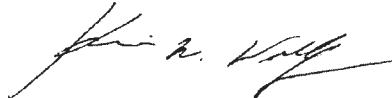
This certifies that the initial sampling requirements of COMAR 26.04.04 "Well Regulations" have been met for the water supply system installed under well permit HO-95-1736. Although the submitted sample results are in compliance with COMAR standards, the Health Department does not guarantee water supplies.

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 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](#)" 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, L.E.H.S., R.E.H.S./RS, Supervisor
Groundwater Management Section
Well & Septic Program

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

HOME LAND LABS

1220 East Joppa Road #C505
Towson, MD 21286
Phone 443.505.8375
lab@homelandhealthyhomes.com
State Certified Water Quality Lab 365

108 Old Solomons Island Road, Suite I2
Annapolis, MD 21401
Phone 443.505.8375
lab@homelandhealthyhomes.com
State Certified Water Quality Lab 106

3430 Rockefeller Court
Waldorf, MD 20602
Phone 443.505.8375
lab@homelandhealthyhomes.com
State Certified Water Quality Lab 139

Certificate of Analysis

Report Date: 04/21/2025

Client: Shahed Siddiqi
Property Address: 4890 Castlebridge Road
Ellicott City, MD 21042

Report No: 271872

Sample Time: 04/14/2025 11:00

Date & Time Received: 04/14/2025 12:45

Sampled By: Jay Jamison - 1775JJ

Field Preservation: Ice

Sample Point(s): First Floor Powder Room Sink

Water Conditioning Appears to be: Sediment Filter (3), Water Softener

Field Chlorine: 0.00

Field pH: 7.84

Well Type: Drilled

Well Height: 13"

Cap Type: 2-Piece Metal

Casing: 6" Metal

Conduit: Secure/PVC

Clarity: Clear

Sand: None Observed

Well Tag Number: HO-95-1736

This report is the sole property of Shahed Siddiqi. Any questions about the report MUST be directed to Shahed Siddiqi at (301) 613-2138. Home Land Labs is not at liberty to discuss this report without written consent from Shahed Siddiqi.

Primary Contaminants								
Parameter	Method	Result	Pass/Fail	Units	MCL	RL	Analyst	Date of Analysis
Radium 226	EPA 903.1	0.9	Pass	pCi/L	5.0	0.2	F R C - 278	04/18/2025
Radium 228	EPA Ra-05	Not Detected	Pass	pCi/L	5.0	0.8	F R C - 278	04/17/2025

Report Notes

The lab added the following notes for your report:

- The combined MCL for Radium 226/228 is 5.0 pCi/L.

Approved By: Kevin Barnaba Kevin Barnaba, Lab Director

HOME LAND

L A B S

1220 East Joppa Road #C505
Towson, MD 21286
Phone 443.505.8375
lab@homelandhealthyhomes.com
State Certified Water Quality Lab 365

108 Old Solomons Island Road, Suite 12
Annapolis, MD 21401
Phone 443.505.8375
lab@homelandhealthyhomes.com
State Certified Water Quality Lab 106

3430 Rockefeller Court
Waldorf, MD 20602
Phone 443.505.8375
lab@homelandhealthyhomes.com
State Certified Water Quality Lab 139

Certificate of Analysis

Report Date: 04/01/2025

Client: Shahed Siddiqi
Property Address: 4890 Castlebridge Rd
Ellicott City, MD 21042
Report No: 270597
Sample Time: 03/24/2025 13:50
Date & Time Received: 03/24/2025 14:50
Sampled By: Jay Jamison - 1775JJ
Field Preservation: Ice
Sample Point(s): Pressure Tank
Water Conditioning Appears to be: None

Field Chlorine: 0.00
Field pH: 7.96
Well Type: Drilled
Well Height: 15"
Cap Type: 2-Piece Metal
Casing: 6" Metal
Conduit: Secure / PVC
Clarity: Clear
Sand: None Observed
Well Tag Number: No Visible Well
Tag

This report is the sole property of Shahed Siddiqi. Any questions about the report MUST be directed to Shahed Siddiqi at (301) 613-2138. Home Land Labs is not at liberty to discuss this report without written consent from Shahed Siddiqi.

Primary Contaminants								
Parameter	Method	Result	Pass/Fail	Units	MCL	RL	Analyst	Date of Analysis
Radium Gross Alpha	EPA 900.0	16.6	Fail	pCi/L	15	1.3	F R C - 278	03/26/2025
Gross Beta	EPA 900.0	12.6	Pass	pCi/L	50.0	1.6	F R C - 278	03/26/2025

Report Notes

The lab added the following notes for your report:

- The Gross Alpha result exceeds 15 pCi/L, so the water is deemed unsafe regarding all alpha emitting radionuclides and further action should be taken. We recommend contacting a licensed water conditioning company.

Approved By: Kevin Barnaba Kevin Barnaba, Lab Director

FOUNTAIN VALLEY ANALYTICAL LABORATORY, INC.

1413 Old Taneytown Rd. Westminster, MD (410) 848-1014 (410) 876-4554

REPORT OF ANALYSIS

Laboratory ID #: 164119 Account #: 1933
Reference: Shahed Siddiqi Client: Fogle's Well Pump & Treatment
Location: 4890 Castlebridge Road Requested By: Dave Fogle
Ellicott City, MD 21042 Source: Well Water
Date/ Time Collected: 2/2/2024 0830 Site: Pressure Tank
Date/Time Rec'd: 2/2/2024 1247 Treatment: None
Chlorine ppm: Free: ND Total: ND pH: 7.0
Collected By: J. Evans 0309JE Well #: HO-95-1736

PARAMETERS	RESULTS	UNITS	REFERENCE	METHOD	DATE/TIME/ANALYST
Bacteria, Coliform, Total, MPN	<1.0	MPN/ 100 ml	<1.0	SM20 9223B	2/3/2024 / 0915 / CCH
Bacteria, E. coli, MPN	<1.0	MPN/ 100 ml	<1.0	SM20 9223B	2/3/2024 / 0915 / CCH
Nitrate.	<0.40	mg/L (as N)	10	EPA 300.0	2/2/2024 / 1358 / CS/KR
Turbidity	4.09	NTU	<10	SM2130B	2/2/2024 / 1620 / CJM
Sand	ND	mg/L	5	Visual/Gravimetric	2/2/2024 / 1600 / CRS

OK
Krow

NOTES:

- 1 Revised report per Client's request to correct the reference name 2/23/24 LO
- 2 mg/L = milligrams per liter (also, parts per million)
- 3 MPN/ 100 ml = Most Probable Number [of viable bacteria] per 100 ml of sample.
- 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 # : B18001872

Date Reported: 2/23/2024

Atlantic Blue
1802 Baltimore Boulevard
Westminster, MD 21157

Order ID: 18875
Reporting Date: 03/25/2025

Sample Address:	2511 Daisy Road, Woodbine, MD 21797	Well Tag:	HO-94-0819
Collected Date:	03/21/2025	Permit Number:	NA
Sample Type:	Drinking Water	Clarity when Drawn:	Clear
Laboratory Certifications:	#214 Maryland, #134 Maryland, #00107 Virginia	Device on System:	NA
Received by Lab:	Date: 03/21/2025 Time: 12:59 PM	Well Cap Intact:	NA
Sampler:	K. Kluetz 2406KK, Atlantic Blue	Well Cap Style:	NA
		Well Cap Photo Available:	NA
		Well Casing Intact:	NA
		Electrical Conduit Intact:	NA

Field Records

Sample Source	Collected Time	pH (SU)	Free Chlorine (mg/L)	Total Chlorine (mg/L)
Well	07:30 AM	7.2	Absent	Absent

Analytical Results

Sample Id	Sample Source	Collected Time	Parameter	Result	Units	MCL	MCL Type	Reporting Limit	Analytical Method	Analysis Date/Time
18875-1	Well Tank-Before Filter	07:30 AM	Total Coliform	Absent	Coliforms/100ml	Present	Primary MCL	Present/Absent	SM9223 B-Colisure	03/21/2025 01:56 PM
18875-1	Well Tank-Before Filter	07:30 AM	E. Coli	Absent	Coliforms/100ml	Present	Primary MCL	Present/Absent	SM9223 B-Colisure	03/21/2025 01:56 PM
18875-2	Kitchen Tap- After Softener	07:30 AM	Iron	<0.1	mg/L	0.3	Secondary MCL	0.1	H8008	03/25/2025 10:30 AM
18875-2	Well Tank-Before Filter	07:30 AM	Sand	Absent	A/P	Present	MD Well Regulation	Present/Absent	Visual	03/24/2025 09:35 AM
18875-2	Kitchen Tap- After Softener	07:30 AM	Turbidity	<0.5	NTU	10	MD Well Regulation	0.5	SM 2130B	03/24/2025 09:35 AM

Notes:

- Bacteriological analysis of this sample indicates this water is **SAFE** for human consumption.
- Maximum Contaminant Levels (MCL) are limits set by the Environmental Protection Agency (EPA) on the amount of contaminants allowed in drinking water. MCL Types:
 - EPA Primary: The maximum contaminant level which is the highest level of contaminant that is allowed in drinking water. Primary MCLs are enforceable standards.
 - EPA Secondary: Non-enforceable guidelines regulating contaminants that cause cosmetic effects (such as skin or tooth discoloration) or aesthetic effects (such as taste or odor) in drinking water.
 - Action Level: Defined in treatment techniques which are required processes intended to reduce the level of a contaminant in drinking water.
- Sample received and examined within EPA's recommended holding time.
- Results in **BOLD** exceed the EPA's Primary MCL.
- NA - Not Applicable.
- Sand and Turbidity standard for new wells - See Code of Maryland Regulations (COMAR) 26.04.04.16E(5).
- We certify that the analyses performed for this report are accurate and that the laboratory tests were conducted by methods approved by the US Environmental Protection Agency and the Maryland Department of the Environment.
- This report was amended 4.17.2025 to correct sample sources.

Reported by,

C. Rodgers

C. Rodgers, Laboratory Manager, Microbiology

FOUNTAIN VALLEY ANALYTICAL LABORATORY, INC.

1413 Old Taneytown Rd. Westminster, MD (410) 848-1014 (410) 876-4554

REPORT OF ANALYSIS

Laboratory ID #: 172128 Account #: 1045
Reference: Caruso Client: Atlantic Blue Water Services
Location: 2511 Daisy Road Requested By: Mark Mather
Woodbine, MD 21797 Source: Well Water
Date/ Time Collected: 3/5/2025 1200 Site: Basement
Date/Time Rec'd: 3/5/2025 1320 Treatment: None
Chlorine ppm: Free: ND Total: ND pH: 6
Collected By: Q. Oliver 3414QO Well #: HO-94-0819

PARAMETERS	RESULTS	UNITS	REFERENCE	METHOD	DATE/TIME/ANALYST
Gross Alpha, Short Term	5.0	pCi/L	15	900.0	3/7/2025 / 0622 / MJN
Gross Beta, Short Term	4.3	pCi/L	50	900.0	3/7/2025 / 0622 / MJN
Radium-226	1.1	pCi/L	****	903.0	3/19/2025 / 1115 / MJN
Radium-228	<0.7	pCi/L	****	Ra-05	3/18/2025 / 1353 / SN

NOTES:

- ****Radium 226 and Radium 228 combined have a reference of 5 pCi/L
- Gross Alpha Detection Limit: 2.0 pCi/L; Gross Alpha Error: +/- 1.9 pCi/L
- Gross Beta Detection Limit: pCi/L; 1.6 Gross Beta Error: +/- 1.1 pCi/L
- pCi/L = picocuries per liter
- Radium 226 Detection Limit: 0.2 pCi/L; Radium 226 Error: +/- 0.5 pCi/L; Chemical Yield: 0.9225
- Radium 228 Detection Limit: 0.7 pCi/L; Radium 228 Error: +/- 0.4 pCi/L
- Results less than or within the reference range are considered satisfactory and within potable water limits at the time of sampling.
- Sub-contracted to Reference Lab #278
- ND:None Detected
- Sample collected by client, analyzed as received
- pH tested on site; Chlorine level tested in lab

Reason for Test : Use & Occupancy

Date Reported: 3/20/2025

Wolf, Kevin

From: siddiqishahed <siddiqishahed@gmail.com>
Sent: Thursday, April 10, 2025 9:23 AM
To: Wolf, Kevin
Subject: RE: Request for ICOP 4890 Castlebridge Rd Lab Report

[Note: This email originated from outside of the organization. Please only click on links or attachments if you know the sender.]

Good morning
Kevin

I have dropped off signed agreement in your office yesterday, I liked to pickup early next week .

Thanks
Shahed

Sent from my T-Mobile 5G Device

----- Original message -----

From: "Wolf, Kevin" <KWolf@howardcountymd.gov>
Date: 4/3/25 3:25 PM (GMT-05:00)
To: 'siddiqishahed' <siddiqishahed@gmail.com>
Subject: RE: Request for ICOP 4890 Castlebridge Rd Lab Report

Yes, testing as indicated for both gross alpha/beta long term and radium 226/228 post treatment is required. You will also need to complete the attached radium agreement form. Please complete this form and bring to our office so I can review and have signed by out office (this should take 5 minutes). The form needs to get recorded with the office of Land Records.

Thanks,

Kevin M. Wolf, LEHS, REHS/RS

Groundwater Mgmt. Sec. Supervisor

Well & Septic Program

Howard County Health Department

8930 Stanford Blvd.

Columbia, MD 21045

410-313-2645 (Office)

410-313-2648 (Fax)

www.hchealth.org



kwolf@howardcountymd.gov

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From: siddiqishahed <siddiqishahed@gmail.com>
Sent: Thursday, April 3, 2025 10:14 AM
To: Wolf, Kevin <KWolf@howardcountymd.gov>
Subject: RE: Request for ICOP 4890 Castlebridge Rd Lab Report

[Note: This email originated from outside of the organization. Please only click on links or attachments if you know the sender.]

Yes, I mean Gross Beta passed, do we need only Gross Alpha test after post treatment ? Because lab charges every different item report

Thanks

Shahed Siddiqi

Sent from my T-Mobile 5G Device

----- Original message -----

From: "Wolf, Kevin" <KWolf@howardcountymd.gov>

Date: 4/3/25 10:05 AM (GMT-05:00)

To: 'siddiqishahed' <siddiqishahed@gmail.com>

Subject: RE: Request for ICOP 4890 Castlebridge Rd Lab Report

Siddiqi,

If you look closely at the report, the result for Gross Apha was 16.6 pCi/L which is above the MCL of 15 pCi/L. You will need to proceed with treatment as stated along with the post treated sampling as indicated below.

Thanks,

Kevin M. Wolf, LEHS, REHS/RS

Groundwater Mgmt. Sec. Supervisor

Well & Septic Program

Howard County Health Department

8930 Stanford Blvd.

Columbia, MD 21045

410-313-2645 (Office)

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kwolf@howardcountymd.gov

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From: siddiqishahed <siddiqishahed@gmail.com>
Sent: Thursday, April 3, 2025 9:57 AM
To: Wolf, Kevin <KWolf@howardcountymd.gov>
Subject: RE: Request for ICOP 4890 Castlebridge Rd Lab Report

[Note: This email originated from outside of the organization. Please only click on links or attachments if you know the sender.]

Hi,

Kevin

Gross Alpha passed, do we need only for Gross Beta test after post treatment ? Please, let me know

Thanks

Shahed Siddiqi

Sent from my T-Mobile 5G Device

----- Original message -----

From: "Wolf, Kevin" <KWolf@howardcountymd.gov>

Date: 4/3/25 9:43 AM (GMT-05:00)

To: 'Shahed Siddiqi' <siddiqishahed@gmail.com>

Subject: RE: Request for ICOP 4890 Castlebridge Rd Lab Report

Hi Siddiqi,

From the lab analysis report, the results for gross alpha are elevated above the maximum containment level (MCL). You will now need to install some kind of treatment (i.e. softener, point-of-use RO, etc.), complete testing again post treatment for gross alpha/beta long term and radium 226/228.

Thanks,

Kevin M. Wolf, LEHS, REHS/RS

Groundwater Mgmt. Sec. Supervisor

Well & Septic Program

Howard County Health Department

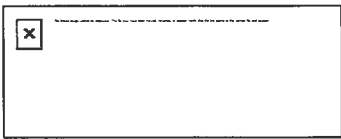
8930 Stanford Blvd.

Columbia, MD 21045

410-313-2645 (Office)

410-313-2648 (Fax)

www.hchealth.org



kwolf@howardcountymd.gov

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From: Shahed Siddiqi <siddiqishahed@gmail.com>
Sent: Wednesday, April 2, 2025 6:04 PM
To: Wolf, Kevin <KWolf@howardcountymd.gov>
Cc: shahed <ksiddiqi45@hotmail.com>
Subject: Request for ICOP 4890 Castlebridge Rd Lab Report

[Note: This email originated from outside of the organization. Please only click on links or attachments if you know the sender.]

Hi,

Kevin

It was nice to meet with two weeks ago in your office, as per our conversation regarding ICOP letter for Occupancy permit all necessary information you have only missing was gross Radium lab report, once you have that you will be able issue immediately. Homeland Lab report I am forwarding to you, Please, help me to issue ICOP your earliest possible.

Thanks

Shahed Siddiqi

Begin forwarded message:

From: lab@homelandhealthyhomes.com

Subject: 4890 Castlebridge Rd Lab Report

Date: April 1, 2025 at 1:31:41 PM EDT

To: smmartin@howardcountymd.gov, kwolf@howardcountymd.gov, siddiqishahed@gmail.com

Cc: lab@homelandhealthyhomes.com

Hello Shahed Siddiqi,

Your laboratory report is attached as a PDF file. If you have any difficulties in viewing the report or have questions, please contact us.

We thank you for your business!

Home Land Labs

1220 East Joppa Road #C505

Towson, MD 21286

Ph: (443) 505-8375

Fax: (443) 267-0098

108 Old Solomons Island Road

Annapolis, MD 21401

Ph: (410) 224-4304

Fax: (410) 224-4307

3430 Rockefeller Court

Waldorf, MD 20602

Ph: (410) 224-4304

Fax: (410) 224-4307

Williams, Jeffrey

From: Williams, Jeffrey
Sent: Monday, February 26, 2018 11:51 AM
To: 'Stephanie Tuite'
Subject: RE: Carroll Ziegler Property, Lot 5 - 4890 Castlebridge Road

Sorry for the delay. Given the well yied, we are fine with that size box and the one site inside the driveway. Thanks
Jeff

From: Stephanie Tuite [<mailto:Stephanie@fcc-eng.com>]
Sent: Wednesday, February 21, 2018 2:19 PM
To: Williams, Jeffrey
Subject: RE: Carroll Ziegler Property, Lot 5 - 4890 Castlebridge Road

620sf after shaving the 10 feet off

Stephanie Tuite, RLA, PE, LEED AP BD&C
FISHER, COLLINS & CARTER, INC.

From: Williams, Jeffrey [<mailto:jewilliams@howardcountymd.gov>]
Sent: Wednesday, February 21, 2018 1:41 PM
To: Stephanie Tuite <Stephanie@fcc-eng.com>
Subject: RE: Carroll Ziegler Property, Lot 5 - 4890 Castlebridge Road

How big is the well box? That should also be 10' off the easement. How much is left over when that is shaved off? The single well location is acceptable with the note.

From: Stephanie Tuite [<mailto:Stephanie@fcc-eng.com>]
Sent: Wednesday, February 21, 2018 9:27 AM
To: Williams, Jeffrey
Subject: RE: Carroll Ziegler Property, Lot 5 - 4890 Castlebridge Road

See attached

Stephanie Tuite, RLA, PE, LEED AP BD&C
FISHER, COLLINS & CARTER, INC.

From: Williams, Jeffrey [<mailto:jewilliams@howardcountymd.gov>]
Sent: Wednesday, February 21, 2018 8:22 AM
To: Stephanie Tuite <Stephanie@fcc-eng.com>
Subject: RE: Carroll Ziegler Property, Lot 5 - 4890 Castlebridge Road

Show me what that looks like and I can let you know.

From: Stephanie Tuite [<mailto:Stephanie@fcc-eng.com>]
Sent: Tuesday, February 20, 2018 10:49 PM
To: Williams, Jeffrey
Subject: RE: Carroll Ziegler Property, Lot 5 - 4890 Castlebridge Road

Oswald, Hank

From: Oswald, Hank
Sent: Tuesday, July 24, 2018 1:11 PM
To: 'Stephanie Tuite'
Subject: RE: 4890 Castlebridge Road - B18001872

Hi Stephanie:

Good afternoon. I didn't see the well field verification note, well tag number or the well box on the plan. In addition, a bollard note should be added to cover any future replacement wells closer than 10 feet to driveway. You're welcome to come in to redline the plan or resubmit.

Thanks,

Hank

From: Stephanie Tuite [<mailto:Stephanie@fcc-eng.com>]
Sent: Tuesday, July 24, 2018 8:52 AM
To: Oswald, Hank
Subject: RE: 4890 Castlebridge Road - B18001872

Frank should be bringing it down to you soon. I was going to stop by, but remembered Health doesn't open till 8am

Stephanie Tuite, RLA, PE, LEED AP BD&C
FISHER, COLLINS & CARTER, INC.

From: Oswald, Hank <hoswald@howardcountymd.gov>
Sent: Tuesday, July 24, 2018 7:31 AM
To: Stephanie Tuite <Stephanie@fcc-eng.com>
Subject: RE: 4890 Castlebridge Road - B18001872

I am here this morning. Please ask for me.

Thanks,

Hank

From: Stephanie Tuite [<mailto:Stephanie@fcc-eng.com>]
Sent: Monday, July 23, 2018 3:00 PM
To: Oswald, Hank
Subject: RE: 4890 Castlebridge Road - B18001872

Not sure, but should have been. They usually stamp it while I am there. I typically bring a copy of transmittal to be signed for, but forgot that day. I will drop off a new plan. I noticed a typo and a hatch that didn't print, so I will bring you new sets. I will drop an email in the morning once dropped off..

Steph

Stephanie Tuite, RLA, PE, LEED AP BD&C

FISHER, COLLINS & CARTER, INC.

From: Oswald, Hank <hoswald@howardcountymd.gov>
Sent: Monday, July 23, 2018 2:29 PM
To: Stephanie Tuite <Stephanie@fcc-eng.com>
Subject: RE: 4890 Castlebridge Road - B18001872

Do remember who accepted the plans? Did they log in your info on the clip board?

From: Stephanie Tuite [<mailto:Stephanie@fcc-eng.com>]
Sent: Monday, July 23, 2018 1:55 PM
To: Oswald, Hank
Subject: RE: 4890 Castlebridge Road - B18001872

I dropped it off myself about a week and half ago. Do I need to send another copy?
Steph

Stephanie Tuite, RLA, PE, LEED AP BD&C
FISHER, COLLINS & CARTER, INC.

From: Oswald, Hank <hoswald@howardcountymd.gov>
Sent: Monday, July 23, 2018 1:54 PM
To: Stephanie Tuite <Stephanie@fcc-eng.com>
Subject: RE: 4890 Castlebridge Road - B18001872

Hi Stephanie – I don't see it here. When was it sent in?

From: Stephanie Tuite [<mailto:Stephanie@fcc-eng.com>]
Sent: Monday, July 23, 2018 1:33 PM
To: Oswald, Hank
Subject: 4890 Castlebridge Road - B18001872

Hank,

Have you had a chance to look at the revised Septic Plan I sent to you? Contractor is getting anxious to get started.

Steph

