

C1 3146

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND WELL COMPLETION REPORT

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

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

COUNTY NUMBER A520449-A

ST/CO USE ONLY DATE Received

DATE WELL COMPLETED 10 22 2007

Depth of Well 220' (TO NEAREST FOOT)

PERMIT NO. FROM "PERMIT TO DRILL WELL" 10-95-1310

OWNER Demmitt Richard STREET OR RFD All Daughters Lane TOWN Fulton SUBDIVISION Orchard Estates SECTION LOT 3

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, FEET (FROM, TO), check if water bearing. Includes entries for Sand (0-56) and Gray Mica Rock (56-220).

GROUTING RECORD

WELL HAS BEEN GROUTED (Y/N) TYPE OF GROUTING MATERIAL (Cement, Bentonite Clay) NO. OF BAGS, NO. OF POUNDS, GALLONS OF WATER, DEPTH OF GROUT SEAL

CASING RECORD

MAIN CASING TYPE (Steel, Concrete, Plastic, Other) Nominal diameter top (main) casing, Total depth of main casing

OTHER CASING (if used)

Table for other casing with columns for diameter and depth.

SCREEN RECORD

screen type or open hole (Steel, Brass, Bronze, Plastic, Open Hole, Other)

DEPTH (nearest ft.)

Table for casing depth with columns for casing number and depth.

DIAMETER OF SCREEN (NEAREST INCH) from to

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

C 3

PUMPING TEST

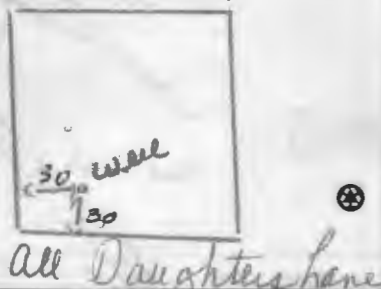
HOURS PUMPED (nearest hour) 3 PUMPING RATE (gal. per min.) 20 METHOD USED TO MEASURE PUMPING RATE Bucket WATER LEVEL (distance from land surface) BEFORE PUMPING 24 ft. WHEN PUMPING 51 ft. TYPE OF PUMP USED (for test) S submersible

PUMP INSTALLED

DRILLER INSTALLED PUMP (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 } LAND SURFACE - below } 2 (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)



NUMBER OF UNSUCCESSFUL WELLS: 0

WELL HYDROFRACTURED (Y/N)

CIRCLE APPROPRIATE LETTER 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 28.04.04 "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. 1 MSD024 DRILLERS SIGNATURE Joseph L. Moynihan

LIC. NO. 1 D

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

B 1 1038

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL 527836 please type

STATE PERMIT NUMBER 40-95-1310 fill in this form completely

OWNER INFORMATION Demmitt Richard P.O. Box 228 Clarksville Md 21029

LOCATION OF WELL Howard Orchard Estates Ful ton

DRILLER INFORMATION Joseph L Mayne MS D084 5512 Ridge Rd Mt. Airy Md 21771

DIRECTION OF WELL FROM TOWN (CIRCLE BOX) ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX) TAX MAP: 40 BLK: 18 PARCEL 178

WELL INFORMATION APPROX. PUMPING RATE 5' AVERAGE DAILY QUANTITY NEEDED 500

USE FOR WATER (CIRCLE APPROPRIATE BOX) DOMESTIC POTABLE SUPPLY & RESIDENTIAL IRRIGATION

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL Howard AS20449-A

APPROXIMATE DEPTH OF WELL 300 FEET APPROXIMATE DIAMETER OF WELL 6 INCH

METHOD OF DRILLING (circle one) BORED (or Augered) AIR-ROtary

SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X SOURCES OF DRILLING WATER 1. Well

REPLACEMENT OR DEEPEMED WELLS (CIRCLE APPROPRIATE BOX) THIS WELL WILL NOT REPLACE AN EXISTING WELL

Not to be filled in by driller (MDE OR COUNTY USE ONLY) PERMIT No. 40-95-1310

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 Need Radon Sample @ yrly Test



**HOWARD COUNTY HEALTH DEPARTMENT  
BUREAU OF ENVIRONMENTAL HEALTH  
WATER AND SEWERAGE PROGRAM  
TEL: (410)313-2640 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: NATIONAL WATER SVC Telephone #: 301-854-1333  
Address: PO Box 138  
ASHTON, MD 20861

(Must circle one) Licensed Plumber      Licensed Well Driller      **Licensed Well Pump Installer**  
License # and name of individual responsible for the field installation:  
Name (Print): DAVID RYCKE License# PI 0145

\*A licensed individual must perform the actual installation. Apprentices must be under the direct supervision of a licensed journeyman or master plumber, pump installer or well driller. Licenses may be subjected to field verification.

Name of Property Owner: MITCHELL & BEST Telephone #: 301-252-0126  
Subdivision: DBB Lot #: 3 Well Tag #: HO-95-1310 ✓  
Site Address: 12411 All Daughter LA FULTON 01/28/2019 ⊕

<b>Submersible Pump Data</b>	<b>Pitless Adapter</b>	<b>Well Cap and Electric Conduit</b>
Make: <u>SCHAEFER</u>	Make: <u>Campbell</u>	Two piece watertight cap: <input checked="" type="checkbox"/>
Model #: <u>1/2 HP</u>	Model#: <u>1A 500</u>	Screened, vented well cap: <input checked="" type="checkbox"/>
Pump Capacity <u>10</u> GPM	Depth: <u>48"</u> (36" min)	Cap secured to casing: <input checked="" type="checkbox"/>
Well Yield: <u>20</u> GPM	NSF approved: <input checked="" type="checkbox"/>	Conduit min 18" B.G.: <input checked="" type="checkbox"/>
Depth of well encountered at time of pump installation: <u>220</u> (feet)		Conduit secured to well cap: <input checked="" type="checkbox"/>
If pump capacity exceeds well yield, a low water cut off switch is required by NSPC 1990 Section 17.8.4		
Torque arrestors or Cable guards are required - Must circle one		
Safety rope, if used, attached to inside of well casing with eye bolt <u>N/A</u>		

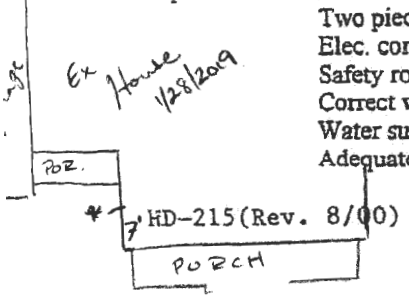
<b>Piping to house</b>	<b>House Connection</b>
Type: <u>POLY</u>	PVC sleeved to undisturbed soil at wall penetration: <u>YES</u>
PSI: <u>205</u> (160 psi min)	Approximate length of sleeve: <u>5'</u>
Depth of supply line: <u>4'</u> (36" min)	Sleeve caulked and sealed properly: <u>YES</u>

The water supply line is required to be at least ten feet from the septic tank, pump chamber, sewage piping, distribution box, drainfields, and sewage reserve area. If this cannot be accomplished, contact this office for approval prior to installation.

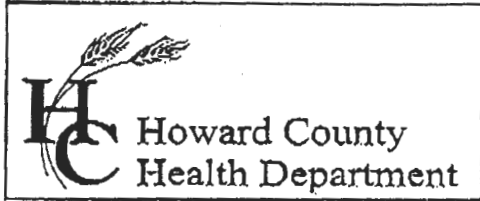
Signature of company representative responsible for installation \_\_\_\_\_ date 1-28-19

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

Date Insp. Requested: <u>01/28/2019</u>	Date Insp. Approved: <u>01/28/2019</u>
Inspection Data: Pitless adapter and water supply line at least 36" below grade	<input checked="" type="checkbox"/> 40" 01/28/2019 ⊕
Two piece cap installed and attached to casing securely	<input checked="" type="checkbox"/>
Elec. conduit extends at least 18" below grade/attached to cap properly	<input checked="" type="checkbox"/> 36" 01/28/2019 ⊕
Safety rope installed inside of well casing	<input checked="" type="checkbox"/>
Correct well tag attached properly and casing 8" above finished grade	<input checked="" type="checkbox"/> 32" 01/28/2019 ⊕
Water supply line sleeved adequately at house connection	<input checked="" type="checkbox"/>
Adequate grout observed below pitless adapter	<input checked="" type="checkbox"/>



\*WELL LINE UNDER FOOTER



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

Penny E. Borenstein, 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: *Parcel A*  
Orchard Est - 1, 2, 3, 4 all Daughters Lane  
 Subdivision/Property Name Lot# Road Name  
*5, 6, 7, 8*

The well site has been staked by Patten Harris Rust + Ass -  
 (professional land surveyor or company employing professional land surveyors)  
 on Sept 2007 (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

*Richard Demmitt*



ChB2

PROPERTY OF  
JOHN D. DENDORFF  
L. 4645, 7-202  
PARCEL 131  
UNED RR-DED

AREA=10,118 SF.

AREA=10,118 SF.

AREA=10,072 SF.

LOT 1  
52,439 SF

LOT 2  
49,244 S.F.

LOT 3  
47,076 S.F.

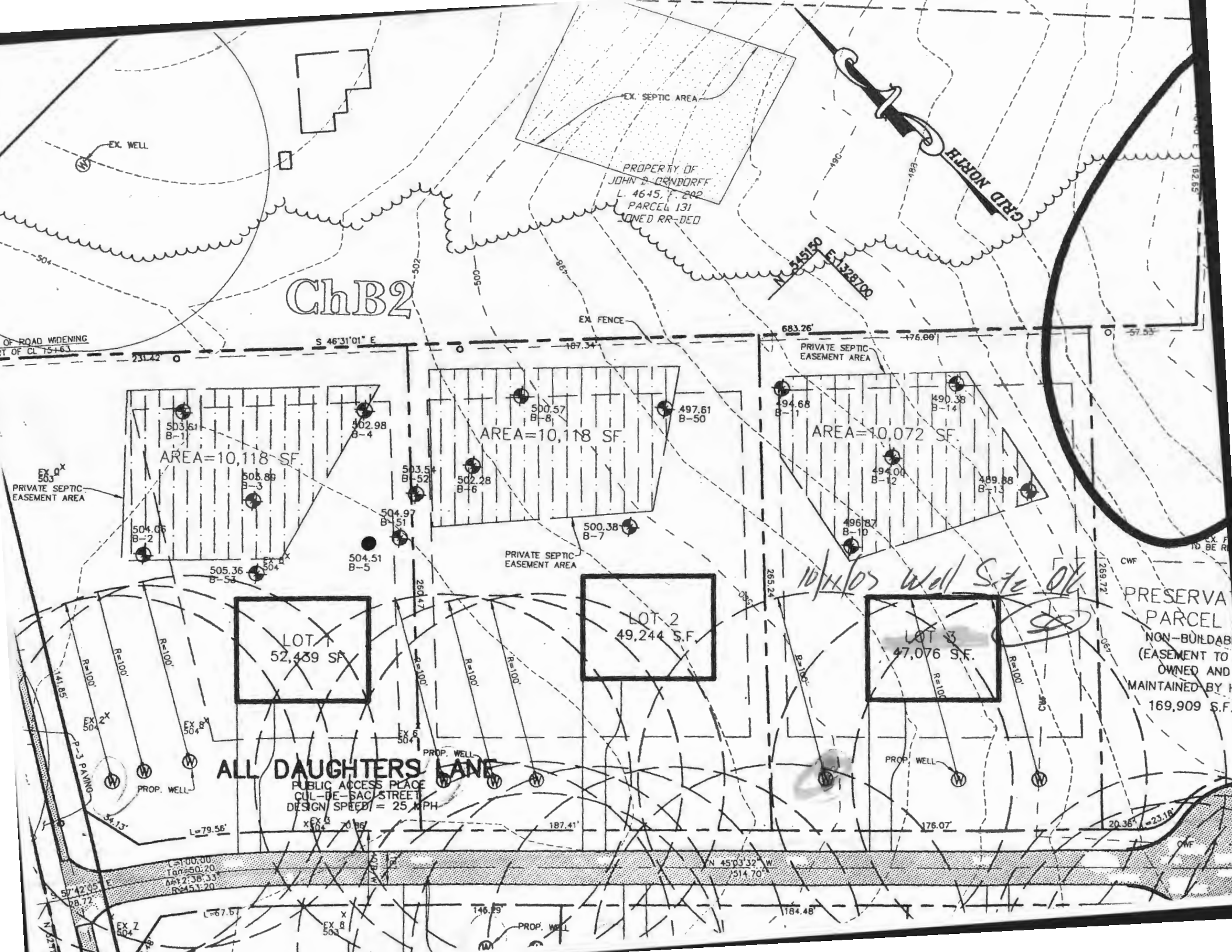
ALL DAUGHTERS LANE

PUBLIC ACCESS PLACE  
CUL-DE-SAC STREET  
DESIGN SPEED = 25 MPH

PRESERVATION  
PARCEL  
NON-BUILDABLE  
(EASEMENT TO  
OWNED AND  
MAINTAINED BY  
169,909 S.F.

10/11/07 Well Site OK

OK



ChB2

PROPERTY OF JOHN B. GENDORFF L. 4645, P. 202 PARCEL 131 ZONED RR-DED

GRID NORTH

N 54°15'00" E 683.26'

ROAD WIDENING

S 46°31'01" E

PRIVATE SEPTIC EASEMENT AREA

AREA=10,118 SF

AREA=10,118 SF

AREA=10,072 SF

LOT 1 52,439 SF

LOT 2 49,244 S.F.

LOT 3 47,076 S.F.

ALL DAUGHTERS LANE

PUBLIC ACCESS PLACE CUL-DE-SAC STREET DESIGN SPEED = 25 MPH

PRESERVE PARCEL NON-BUILDABLE (EASEMENT TO OWNED AND MAINTAINED BY H 169,909 S.F.

10/11/05 Well Site OK

L=100.00 Tan=50.20 Δ=12.38.33 R=453.20

N 45°33'32" W 514.70'

L=67.67

146.89'

184.48'

20.36' -23.18'



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

November 29, 2007

Mr. Richard Demitt  
P.O. Box 228  
Clarksville, MD 21029

RE: Orchard Estates, Lot #3  
Well Tag: HO-95-1310

To Whom It May Concern:

A sample was collected from a yield test October 22, 2007 and submitted to the Department of Health and 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. In turn, this can provide information regarding naturally occurring radiation (i.e., Radionuclides) that may exist in your area of development within the County.

Results from this screening revealed a **Gross Alpha** of  $8.0 \pm 2.0$  picocuries/liter (pCi/L); while the **Gross Beta** level was  $7.0 \pm 2.0$  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 target 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 appears safe for all uses. No additional testing for these parameters will be required to secure the future Use & Occupancy. However, other standard (potability) testing will still be necessary.

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,  
  
Bert Nixon, Director  
Bureau of Environmental Health

cc: Eric Dougherty, MDE Water Mgmt., Groundwater  
✓ Well & Septic File

Send Report To: Bob Alex

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

*noticed*

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

**LABORATORY ANALYSIS REQUEST**

Sample Bottle No. A: H0-95-1310 No. B: \_\_\_\_\_ Field Blank Bottle No. A: \_\_\_\_\_ No. B: \_\_\_\_\_

Plant/Site Name: concrete pit - lot 3 County: Howard

Sample Source: 211 ... Location: H0-95-1310  
 (well no., lab sink, sample tap, etc.)

County:   Plant No.

CHECK (one per box)

Drinking Water <input 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 type="checkbox"/>
Stream <input type="checkbox"/>	Private <input type="checkbox"/>	MCL <input type="checkbox"/>	Recheck <input type="checkbox"/>
Other <input type="checkbox"/>	Other <input type="checkbox"/>		Special <input type="checkbox"/>

Collector: R. W. ... Telephone No: 410-912-2643  
 Date Collected: 10/22/07 Time Collected: \_\_\_\_\_ a.m. 12 p.m.

Nitric Acid Preserved: Yes  No  Iced: Yes  No

Submitters Code:   Federal Project:  Field Data: \_\_\_\_\_

Remarks: Sample analyzed for pH Chlorine

✓	Test	EPA Code	Laboratory No.	Results (pCi/L)	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: \_\_\_\_\_

## **INTERIM CERTIFICATE OF POTABILITY**

**Expiration Date – NOVEMBER 10, 2019**

May 10, 2019

Homeowner  
12411 All Daughters Lane  
Highland, MD 20777

**RE: Orchard Estates, Lot 3**  
**12411 All Daughters Lane**  
**Building Permit: B18003354**  
**Well Permit: HO-95-1310**

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 **1/30/2019**. Final approval of the well line connection to the dwelling was granted on **1/28/2019**. The well construction was completed on **10/22/2007**. Water samples were collected on **3/28/2019, 4/3/2019, 5/8/2019**.

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 **11/29/2007**. Results showed a Gross Alpha level of **8.0 ± 2.0 pCi/L** and **Gross Beta** level of **7.0 ± 2.0 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-95-1310. 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 Environments website which elaborates in further detail operation and maintenance of your Septic System.

Approving Authority,

A handwritten signature in black ink, appearing to read 'Kevin M Wolf', is written over a horizontal line.

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

9106 Philadelphia Road  
 Suite 106  
 Rosedale, MD 21237



# HOME LAND ENVIRONMENTAL HEALTH LABS

"Healthy Homes Start Here"

State Certified  
 Water Quality  
 Laboratory #353

## Certificate of Analysis

Property Information	Customer Information
Property Address: <b>12411 All Daughters Lane, OBB Lot3 Highland, MD 20777</b> Well Tag Number: <b>HO-95-1310</b> Building Permit #: <b>18003354</b>	Name: <b>Well Water Solutions</b> Phone Number: <b>(410) 935-7185</b> Email: <b>jemoseman@wellwatersolutions.net</b>

Field Data		
Date & Time Sampled: <b>3/28/2019 12:00PM</b> Date & Time Received: <b>3/29/2019 9:55AM</b> Sampled By: <b>Janet Walker</b> Sampler ID: <b>9006JW</b> Sample Location: <b>Bacteria collected RAW no treatment from first floor bathroom sink, all other samples collected RAW no treatment from the kitchen sink</b>	pH: <b>5.8</b> Chlorine Residual: <b>0.0</b> Clarity: <b>Clear</b> Sand: <b>None</b> Preservation: <b>Cool, 4°C</b>	Well Type: <b>Not noted</b> Well Height: <b>Not noted</b> Cap Type: <b>Not noted</b> Casing: <b>Not noted</b> Conduit: <b>Not noted</b>
Water Conditioning Appears to Be: <b>None (all samples collected RAW)</b>		

Parameter	Method	Result	Pass/Fail	Units	MCL	RL	Analyst	Date of Analysis
Total Coliform	Colitag	Absent	Pass	Per/100mL	Present	1.0	KMB	3/30/2019
<i>E. Coli</i>	Colitag	Absent	Pass	Per/100mL	Present	1.0	KMB	3/30/2019
Nitrate-Nitrite	EPA 353.2	4.4	Pass	mg/L	10.0	0.5	KMB	3/29/2019
Turbidity	EPA 180.1	12.4	Fail	NTU	10.0	0.5	KMB	3/29/2019

Approved By: Kevin Barnaba Kevin Barnaba, Lab Director

Report Date: 4/1/2019

9106 Philadelphia Road  
 Suite 106  
 Rosedale, MD 21237



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 ENVIRONMENTAL  
 HEALTH LABS**

"Healthy Homes Start Here"

State Certified  
 Water Quality  
 Laboratory #353

**Certificate of Analysis**

Property Information	Customer Information
Property Address: <b>12411 All Daughters Lane,            QBB Lot 3            Highland, MD 20777</b> Well Tag Number: <b>HO-95-1310</b> Building Permit #: <b>18003354</b>	Name: <b>Well Water Solutions</b> Phone Number: <b>(410) 935-7185</b> Email: <b>jemoseman@wellwatersolutions.net</b>

Field Data		
Date & Time Sampled: <b>3/28/2019 12:05PM</b> Date & Time Received: <b>3/29/2019 9:55AM</b> Sampled By: <b>Janet Walker</b> Sampler ID: <b>9006JW</b> Sample Location: <b>Well water – Iron collected from            pressure tank</b>	pH: <b>5.8</b> Chlorine Residual: <b>0.0</b> Clarity: <b>Clear</b> Sand: <b>None</b> Preservation: <b>Cool, 4°C</b>	Well Type: <b>Not noted</b> Well Height: <b>Not noted</b> Cap Type: <b>Not noted</b> Casing: <b>Not noted</b> Conduit: <b>Not noted</b>
<b>Water Conditioning Appears to Be: None (all samples collected RAW)</b>		

Parameter	Method	Result	Pass/Fail	Units	MCL	RL	Analyst	Date of Analysis
Iron	H 8008	3.05	Fail	mg/L	0.3	0.05	KMB	3/29/2019

Approved By: Kevin Barnaba Kevin Barnaba, Lab Director

Report Date: 3/29/2019

9106 Philadelphia Road  
 Suite 106  
 Rosedale, MD 21237



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 Laboratory #353

**Certificate of Analysis**

Property Information	Customer Information
Property Address: <b>12411 All Daughters Lane, Lot 3            Highland, MD 20777</b> Well Tag Number: <b>HO-95-1310</b> BP#: <b>B18003354</b>	Name: <b>Well Water Solutions</b> Phone Number: <b>(410) 935-7185</b> Email: <b>jemoseman@wellwatersolutions.net</b>

Field Data		
Date & Time Sampled: <b>4/3/2019 3:30 PM</b> Date & Time Received: <b>4/4/2019 10:10 AM</b> Sampled By: <b>Janet Walker</b> Sampler ID: <b>9006JW</b> Sample Location: <b>First floor hallway            bathroom sink after sediment filter</b>	pH: <b>5.8</b> Chlorine Residual: <b>0.0</b> Clarity: <b>Clear</b> Sand: <b>None</b> Preservation: <b>Cool, 4°C</b>	Well Type: <b>Not noted</b> Well Height: <b>Not noted</b> Cap Type: <b>Not noted</b> Casing: <b>Not noted</b> Conduit: <b>Not noted</b>
Water Conditioning Appears to Be: <b>Sediment Filter</b>		

Parameter	Method	Result	Pass/Fail	Units	MCL	RL	Analyst	Date of Analysis
Turbidity	EPA 180.1	<b>4.78</b>	<b>Pass</b>	NTU	10.0	0.5	KMB	<b>4/4/2019</b>

Approved By: Kevin Barnaba Kevin Barnaba, Lab Director

Report Date: 4/4/2019

# HOME LAND

**L A B S**

"Healthy Homes Start Here"

State Certified Water Quality Laboratory #353

## Certificate of Analysis

Report Date: 5/9/2019

Client: Well Water Solutions  
Property Address: 12411 All Daughters Lane  
Highland, MD 20777  
Lot 3  
B-18003354  
Date & Time Sampled: 5/8/2019 3:45 PM  
Date & Time Received: 5/9/2019 12:45 PM  
Sampled By: Janet Walker  
Sampler ID Number: 9006JW  
Sample Location: Kitchen sink post sediment  
filter  
Preservation: Cool, 4°C

Chlorine Residual: 0.0  
Field pH: 5.8  
Well Type: Not noted  
Well Height: Not noted  
Cap Type: Not noted  
Casing: Not noted  
Conduit: Not noted  
Well Tag Number: HO-95-1310  
Clarity: Clear  
Sand: None Observed  
Water Conditioning Appears to be: Sediment  
Filter

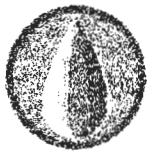
Secondary Contaminants								
Parameter	Method	Result	Acceptable/ High	Units	SMCL	RL	Analyst	Date of Analysis
Iron	H 8008	ND	Acceptable	mg/L	0.3	0.05	KMB-353	5/9/2019

Note: This report is confidential and is for the sole use of the addressee.

Approved By: Kevin Barnaba Kevin Barnaba, Lab Director

9106 Philadelphia Road, Suite 106  
Rosedale, MD 21237

443.505.8375  
lab@homelandhealthyhomes.com



HOME LAND  
ENVIRONMENTAL  
HEALTH LABS

*\*RUSH\**

443-505-8375  
9106 Philadelphia Road Suite 106  
Rosedale MD 21237  
www.homelandhealthyhomes.com  
lab@homelandhealthyhomes.com

5/9

Chain Of Custody Form

Client Name Well Water Solutions, Inc.

Site Address:

Lot 3

Address 5163 Darting Bird Lane, Columbia, MD 21044

12411 All Daughters Lane  
Highland, MD 20777

Phone 410-935-7185 &/or 301-674-3137

Email jbieber@wellwatersolutions.net & jamoseman@wellwatersolutions.net

Field Collection Information

Collector's Name:	Janet Walker
Sampler's ID #:	9006JW Exp: 9/5/21
Collected Date and	5/8/2019 @ 3:45
Well Tag Number:	HO-95-1310

Field pH:	5.8
Field Chlorine:	<input checked="" type="radio"/> Present <input checked="" type="radio"/> Absent
Sand:	<input checked="" type="radio"/> Present <input checked="" type="radio"/> Absent
Clear At Time of Sample?	<input checked="" type="radio"/> Yes <input checked="" type="radio"/> No
Was Well Chlorinated?	<input checked="" type="radio"/> Yes <input checked="" type="radio"/> No

Well Casing and Cap Condition B-18003354

Height Above Grade:	Cap Type:	Casing:	Conduit:
---------------------	-----------	---------	----------

Requested Testing: (Please Circle All That Apply)

FHA/VA (Potability +Nitrites, Lead and Iron)			Potability (Bacteria, Nitrates, pH, Turbidity)		
Arsenic	Bacteria	Cadmium	Chlorides	Gross Alpha	Iron <input checked="" type="checkbox"/>
Lead	MTBE	Nitrates	Nitrites	Pesticides	Radium 226/228
Total Hardness	VOC's	Other:	Other:	Other:	Other:

Source: <u>Collected @ Kitchen sink past sediment filter</u>	Water Conditioning: <u>sediment filter</u>
---	---

Release Signatures

Released By: <u>[Signature]</u> Janet Walker	Date/Time: <u>5/8/2019 @ 5:00</u>
Released By: <u>[Signature]</u>	Date/Time: <u>5/9/19 12:45</u>
Released By: _____	Date/Time: _____
Received in lab by: <u>[Signature]</u>	Date/Time: <u>5/9 12:45</u>

## Wolf, Kevin

---

**From:** Williams, Jeffrey  
**Sent:** Wednesday, May 08, 2019 10:49 AM  
**To:** 'Janet Bieber'  
**Cc:** 'Jemoseman@wellwatersolutions.net'; Wolf, Kevin  
**Subject:** RE: URGENT! Health Letter for U&O/Lot 3- 12411 All Daughters Lane, Highland, MD 20777

I reviewed the file and the email chain and I want to reiterate the point Kevin made that it is not possible under COMAR 26.04.04 to issue a COP with elevated turbidity unless the turbidity is caused by dissolved iron or manganese. There is no deviation option for turbidity. If other counties are doing that, they are in violation of COMAR. Please review these procedures to avoid confusion on future projects.

The proper procedure to deal with elevated turbidity is to test for iron and manganese and if they are elevated, install an iron removal device, then do a test for iron, manganese, and turbidity after the removal device. If the turbidity is below 10 with the iron and manganese reduced below target levels, then you would have proven that the turbidity was caused by iron and/or manganese and a standard ICOP can be issued. If the turbidity was not caused by iron, you would need a well driller to evaluate the well and some possible solutions may be to install well screens or additional casing or abandoning the well and drilling a new one.

In this case, I see a sediment filter was installed and I see a raw iron sample showing elevated iron as well as a post treatment turbidity sample. A sediment filter may or may not have removed the iron, a softener is the typical solution for that, but it may have removed other particulates that could have contributed to the turbidity issue.

***What we need to proceed is an iron test post sediment filter. If the iron is below 0.3, we will accept the results and be able to issue an ICOP.***

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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**From:** Williams, Jeffrey  
**Sent:** Tuesday, May 07, 2019 3:49 PM  
**To:** 'Janet Bieber' <[jbieber@wellwatersolutions.net](mailto:jbieber@wellwatersolutions.net)>

**Cc:** Jemoseman@wellwatersolutions.net; Wolf, Kevin <KWolf@howardcountymd.gov>

**Subject:** RE: URGENT! Health Letter for U&O/Lot 3- 12411 All Daughters Lane, Highland, MD 20777

We'll review the file and see if there are any outstanding issues with the well or sewage disposal system installations and we will review these test results. If there are any problems, we'll let you know. Otherwise, we will issue an ICOP if acceptable. Thanks

Jeff

**From:** Janet Bieber <jbieber@wellwatersolutions.net>

**Sent:** Tuesday, May 07, 2019 3:44 PM

**To:** Williams, Jeffrey <jewilliams@howardcountymd.gov>

**Cc:** Jemoseman@wellwatersolutions.net

**Subject:** Fw: URGENT! Health Letter for U&O/Lot 3- 12411 All Daughters Lane, Highland, MD 20777

**Importance:** High

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

Good Afternoon!

John Moseman asked me to forward a copy of all the attachments for your review regarding the e-mail he sent you last night on the following Mitchel and Best Property.

- Lot 3- 12411 All Daughters Lane, Highland, MD 20777

Attached are all the lab results from 3/28/19- RAW Water Collection and 4/3/19- Treated Water Collection.

Please let us know what exactly has to be done to receive an ICOP Letter or a Temporary ICOP Letter so Mitchell & Best & the Homeowner can settle on this property.

Thanking you in advance for your assistance.

Thank you,  
Janet Walker Bieber  
Well Water Solutions, Inc.  
301-674-3137  
410-935-7185  
[www.wellwatersolutions.net](http://www.wellwatersolutions.net)

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**From:** [Jemoseman@wellwatersolutions.net](mailto:Jemoseman@wellwatersolutions.net)

**Sent:** Monday, May 06, 2019 9:43 PM

**To:** [jewilliams@howardcountymd.gov](mailto:jewilliams@howardcountymd.gov)

**Cc:** Janet Bieber <[jbieber@wellwatersolutions.net](mailto:jbieber@wellwatersolutions.net)>

**Subject:** Health Letter for U&O/Lot 3- 12411 All Daughters Lane, Highland, MD 20777 raw turbidity test

Jeff,

I am reaching out to you for help in resolving an issue with Turbidity for a Mitchell and Best property that Urgently needs an ICOP letter so they can close on this property....this Wednesday.

We sent all the lab results with "No Treatment" and with "Treatment" to Kevin Wolf on Friday, April 5th. Mitchell and Best and Well Water Solutions followed up with several e-mails and phone calls and Kevin responded stating Turbidity has to pass RAW on May 2nd. Since, May 2nd we have again been leaving messages and sent e-mails to Kevin with no response. In addition, I have contacted Kevin several times with no recent response.

We are completely confused and are Urgently in need of assistance and guidance so we can help Mitchell and Best obtain the ICOP letter ASAP. We have had numerous wells fail Turbidity and then pass after water treatment is installed. We have never been told Turbidity had to pass RAW by any county including Howard County; in order to obtain the ICOP letter for a property. No other County requires Turbidity to pass RAW and the EPA states that Turbidity should not hold up the ICOP letter.

Mitchell and Best and the Buyers have been waiting a month for this letter so they can settle and move into their new home. Please help us know what we have to do so we can help this happen.

Thanking you in advance for your assistance.

John Moseman

John E Moseman  
Well Water Solutions  
410-935-7185  
[www.wellwatersolutions.net](http://www.wellwatersolutions.net)

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---

**From:** Janet Bieber  
**Sent:** Tuesday, May 7, 2019 1:38 PM  
**To:** Kevin Wolf Howard County  
**Cc:** [Jemoseman@wellwatersolutions.net](mailto:Jemoseman@wellwatersolutions.net)  
**Subject:** Fw: URGENT! Health Letter for U&O/Lot 3- 12411 All Daughters Lane, Highland, MD 20777

Kevin,

Any help and guidance in resolving the "ICOP" for the following Mitchel and Best property would be greatly appreciated.

- Lot 3- 12411 All Daughters Lane, Highland, MD 20777

The Lab Results attached are from 3/28/19- RAW and 4/3/19- Treated Water.

Please let us know what exactly has to be done to resolve this so Mitchell & Best & the Homeowner can settle on this property.

Any help and guidance would be greatly appreciated.

Thank you,  
Janet Walker Bieber  
Well Water Solutions, Inc.  
301-674-3137  
410-935-7185  
[www.wellwatersolutions.net](http://www.wellwatersolutions.net)  
[www.facebook.com/wellwatersolutions.net](http://www.facebook.com/wellwatersolutions.net)

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[Jemoseman@wellwatersolutions.net](mailto:Jemoseman@wellwatersolutions.net)

Fri 5/3/2019 9:29 AM

To:

[KWolf@howardcountymd.gov](mailto:KWolf@howardcountymd.gov);

Cc:

Janet Bieber;

'Mike Smith' <[msmith@mitchellbest.com](mailto:msmith@mitchellbest.com)>;

Algie Risinger <[arisinger@mitchellbest.com](mailto:arisinger@mitchellbest.com)>;

Flag for follow up. Start by Friday, May 03, 2019. Due by Friday, May 03, 2019.

This message was sent with high importance.

Kevin, I am responding to your recent email pertaining to the Turbidity issue at OBB Lot 3 12411 All Daughters Lane Highland. The turbidity failed RAW and now is passing after water treatment has been installed. We have performed over 100 new construction homes water tests over the years and many many fail initially for Turbidity, and the water is filtered or additional water treatment is added and turbidity passes on the 2<sup>nd</sup> test. This is the first time your office has asked for a RAW passing turbidity test???? I don't believe this is possible, in many wells. The COMAR regulation you are referencing does not say RAW water, it states.... Has a Turbidity less than 10 NTU.....

Kevin, we have resolved the Turbidity issue, through the installation of additional water treatment. Our client would like to be issued the ICOP, so this family can move in and settle.

We will provide your office any results or perform any reasonable tests to your office deems necessary in order to move this forward.

Please ADVISE ASAP!!

JOHN

**From:** Wolf, Kevin <[KWolf@howardcountymd.gov](mailto:KWolf@howardcountymd.gov)>

**Sent:** Thursday, May 2, 2019 3:31 PM

**To:** Janet Bieber

**Cc:** [Jemoseman@wellwatersolutions.net](mailto:Jemoseman@wellwatersolutions.net); Michael Hohrein; Algie Risinger

**Subject:** Re: Health Letter for U&O/Lot 3- 12411 All Daughters Lane, Highland, MD 20777

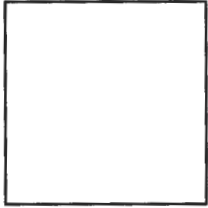
Turbidity falls under the Well Development section of COMAR. 26.04.04.16. Which states:

(5) Every well shall be developed in order to obtain the full yield of the well and a water quality that meets all of the following requirements:

(a) Contains less than 5 milligrams sand or larger sized particles per liter of water, where particles with a diameter between 0.0625 and 2.0 mm are considered to be sand; and

(b) Has a turbidity of less than 10 NTU (nephelometric turbidity unit) as determined by methods designated in 40 CFR §141.74(a)(1), except if the turbidity is due to the oxidation of dissolved iron or manganese naturally occurring in the water.

Turbidity must pass raw unless the excess turbidity is from iron or manganese. If the water tests for turbidity show elevated iron or manganese above the smcl, a treatment device must be installed to remove the excess iron and a retest for turbidity to be provided.



---

**From:** Janet Bieber  
**Sent:** Thursday, May 2, 2019 3:23 PM  
**To:** [KWolf@howardcountymd.gov](mailto:KWolf@howardcountymd.gov)  
**Cc:** [Jemoseman@wellwatersolutions.net](mailto:Jemoseman@wellwatersolutions.net); Michael Hohrein; Algie Risinger  
**Subject:** Fw: Health Letter for U&O/Lot 3- 12411 All Daughters Lane, Highland, MD 20777

Kevin,

The Lab Results from 3/28/19- RAW and 4/3/19- Post Treatment are attached.

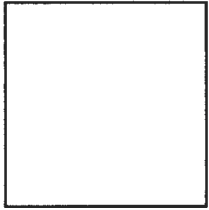
The samples collected RAW on 3/28/19 show the Turbidity was 12.4, and everything else PASSED. (Bacteria, Sand, & Nitrates). All Samples on 3/28/19 were collected RAW with No Water Treatment from the Kitchen Sink.

On 4/3/19, We collected the Turbidity "Post Treatment" from a tap after the Sediment Filter and the Turbidity PASSED.

We are completely confused. You are requesting a PASSING "RAW Turbidity". We were told when the Turbidity fails "RAW" and then passes after with Water Treatment then it is acceptable for a ICOP. Some wells may never pass "RAW" and need water treatment to fix the Turbidity. Can you help clarify so we can get the ICOP letter and any necessary water quality testing done ASAP should we need to do additional water quality testing.

Thank you

Turbidity must pass raw unless the excess turbidity is from iron or manganese. If the water tests for turbidity show elevated iron or manganese above the smcl, a treatment device must be installed to remove the excess iron and a retest for turbidity to be provided.



---

**From:** Janet Bieber

**Sent:** Thursday, May 2, 2019 3:23 PM

**To:** [KWolf@howardcountymd.gov](mailto:KWolf@howardcountymd.gov)

**Cc:** [Jemoseman@wellwatersolutions.net](mailto:Jemoseman@wellwatersolutions.net); Michael Hohrein; Algie Risinger

**Subject:** Fw: Health Letter for U&O/Lot 3- 12411 All Daughters Lane, Highland, MD 20777

Kevin,

The Lab Results from 3/28/19- RAW and 4/3/19- Post Treatment are attached.

The samples collected RAW on 3/28/19 show the Turbidity was 12.4, and everything else PASSED. (Bacteria, Sand, & Nitrates). All Samples on 3/28/19 were collected RAW with No Water Treatment from the Kitchen Sink.

On 4/3/19, We collected the Turbidity "Post Treatment" from a tap after the Sediment Filter and the Turbidity PASSED.

We are completely confused. You are requesting a PASSING "RAW Turbidity". We were told when the Turbidity fails "RAW" and then passes after with Water Treatment then it is acceptable for a ICOP. Some wells may never pass "RAW" and need water treatment to fix the Turbidity. Can you help clarify so we can get the ICOP letter and any necessary water quality testing done ASAP should we need to do additional water quality testing.

Thank you

Thank you,  
Janet Walker Bieber  
Well Water Solutions, Inc.  
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[www.facebook.com/wellwatersolutions.net](https://www.facebook.com/wellwatersolutions.net)

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---

**From:** Wolf, Kevin <[KWolf@howardcountymd.gov](mailto:KWolf@howardcountymd.gov)>  
**Sent:** Thursday, May 2, 2019 10:02 AM  
**To:** Algie Risinger ([arisinger@mitchellbest.com](mailto:arisinger@mitchellbest.com))  
**Cc:** Mike Smith; [Jemoseman@wellwatersolutions.net](mailto:Jemoseman@wellwatersolutions.net); Janet Bieber  
**Subject:** RE: Health Letter for U&O/Lot 3- 12411 All Daughters Lane, Highland, MD 20777

Algie,  
I need a passing RAW turbidity test for this one. The one dated 4/3/19 indicates post treatment.

Kevin

**From:** Janet Bieber <[jbieber@wellwatersolutions.net](mailto:jbieber@wellwatersolutions.net)>  
**Sent:** Wednesday, May 01, 2019 9:24 AM  
**To:** Wolf, Kevin <[KWolf@howardcountymd.gov](mailto:KWolf@howardcountymd.gov)>; Martin, Sharhonda <[smmartin@howardcountymd.gov](mailto:smmartin@howardcountymd.gov)>  
**Cc:** Mike Smith <[msmith@mitchellbest.com](mailto:msmith@mitchellbest.com)>; Algie Risinger <[arisinger@mitchellbest.com](mailto:arisinger@mitchellbest.com)>;  
[Jemoseman@wellwatersolutions.net](mailto:Jemoseman@wellwatersolutions.net)  
**Subject:** Fw: Health Letter for U&O/Lot 3- 12411 All Daughters Lane, Highland, MD 20777

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

**From:** Janet Bieber  
**Sent:** Thursday, April 25, 2019 10:14 AM  
**To:** Kevin Wolf Howard County ; Howard County Martin, Sharhonda  
**Cc:** [Jemoseman@wellwatersolutions.net](mailto:Jemoseman@wellwatersolutions.net); Mike Smith; Algie Risinger  
**Subject:** Fw: Health Letter for U&O/Lot 3- 12411 All Daughters Lane, Highland, MD 20777

Good Morning!

I am following up regarding the attached Passing Potability Results for the following Mitchell & Best Property. Mitchell & Best is waiting on the ICOP Letter so they can obtain the U&O for this property. Please advise when they will be receiving this.

- Lot 3- 12411 All Daughters Lane, Highland, MD 20777
- HO-95-1310

Thanking you in advance for your assistance. Should you have any questions or need additional information please do not hesitate to contact us.

Thank you,  
Janet Walker Bieber  
Well Water Solutions, Inc.  
301-674-3137  
410-935-7185  
[www.wellwatersolutions.net](http://www.wellwatersolutions.net)  
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**From:** Janet Bieber  
**Sent:** Thursday, April 25, 2019 10:14 AM  
**To:** Kevin Wolf Howard County ; Howard County Martin, Sharhonda  
**Cc:** [jemoseman@wellwatersolutions.net](mailto:jemoseman@wellwatersolutions.net); Mike Smith; Algie Risinger  
**Subject:** Fw: Health Letter for U&O/Lot 3- 12411 All Daughters Lane, Highland, MD 20777

Good Morning!

I am following up regarding the attached Passing Potability Results and for the following Mitchell & Best Property. Mitchell & Best is waiting on the ICOP Letter so they can obtain the U&O for this property. Please advise when they will be receiving this.

- Lot 3- 12411 All Daughters Lane, Highland, MD 20777
- HO-95-1310

Thanking you in advance for your assistance. Should you have any questions or need additional information please do not hesitate to contact us.

Thank you,  
Janet Walker Bieber  
Well Water Solutions, Inc.  
301-674-3137  
410-935-7185  
[www.wellwatersolutions.net](http://www.wellwatersolutions.net)  
[www.facebook.com/wellwatersolutions.net](http://www.facebook.com/wellwatersolutions.net)

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**From:** Janet Bieber  
**Sent:** Friday, April 5, 2019 6:30 PM  
**To:** Kevin Wolf Howard County ; Howard County Martin, Sharhonda  
**Cc:** [Jemoseman@wellwatersolutions.net](mailto:Jemoseman@wellwatersolutions.net)  
**Subject:** Health Letter for U&O/Lot 3- 12411 All Daughters Lane, Highland, MD 20777

Good Afternoon!

Attached are the Passing Potability Results and for the following Mitchell & Best Property. Please review for the ICOP Letter so Mitchell & Best can obtain the U&O for this property.

- Lot 3- 12411 All Daughters Lane, Highland, MD 20777
- HO-95-1310

Thanking you in advance for your assistance. Should you have any questions or need additional information please do not hesitate to contact us.

Thank you,  
Janet Walker Bieber  
Well Water Solutions, Inc.  
301-674-3137  
410-935-7185  
[www.wellwatersolutions.net](http://www.wellwatersolutions.net)  
[www.facebook.com/wellwatersolutions.net](http://www.facebook.com/wellwatersolutions.net)

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