C 1 **7258** SEQUENCE NO. (MDE USE ONLY)

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

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.

COUNTY NUMBER 13

ST/CO USE ONLY DATE Received MM DD YY (8–13)

DATE WELL COMPLETED MM 8 DD 28 YY 07 (45–50)

Depth of Well 22 100 26 (TO NEAREST FOOT)

10/17/07 BB O.K.

PERMIT NO. FROM "PERMIT TO DRILL WELL" HO-95-1192 (28–37)

OWNER Kreity last name Co. first name

STREET OR RFD Woodstock rd. TOWN Woodstock

SUBDIVISION Myrtue Pro. SECTION LOT 16

WELL LOG
Not required for driven wells

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

DESCRIPTION (Use additional sheets if needed)	FEET FROM	FEET TO	check if water bearing
Brown Shale	0	44	
Gray Granite	44	100	✓

NUMBER OF UNSUCCESSFUL WELLS: 0

WELL HYDROFRACTURED yes Y no 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.: M SD 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)

GROUTING RECORD
WELL HAS BEEN GROUTED (Circle Appropriate Box) yes Y (44) no N (44)

TYPE OF GROUTING MATERIAL (Circle one)

CEMENT CM (45–46) BENTONITE CLAY BC (45–46)

NO. OF BAGS 12 NO. OF POUNDS 1128 (45–50)

GALLONS OF WATER 72

DEPTH OF GROUT SEAL (to nearest foot)

from 0 (48–52) TOP ft. to 41 (54–58) BOTTOM ft.

(enter 0 if from surface)

CASING RECORD
casing types insert appropriate code below

ST STEEL CO CONCRETE PL PLASTIC OT OTHER

MAIN CASING TYPE	Nominal diameter top (main) casing (nearest inch)!	Total depth of main casing (nearest foot)
ST (60–61)	06 (63–64)	52 (66–70)

OTHER CASING (if used)

EACH CASING	diameter inch	depth (feet) from	depth (feet) to

SCREEN RECORD
screen type or open hole insert appropriate code below

ST STEEL BR BRASS BRONZE PL PLASTIC HO OPEN HOLE OT OTHER

C 2 (1–2)

DEPTH (nearest ft.)

EACH SCREEN			
1	HO (8–9)	52 (11–15)	100 (17–21)
2	(23–24)	(26–30)	(32–36)
3	(38–39)	(41–45)	(47–51)

SLOT SIZE 1 ____ 2 ____ 3 ____

DIAMETER OF SCREEN ____ (56–60) (NEAREST INCH)

from ____ to ____

GRAVEL PACK IF WELL DRILLED WAS FLOWING WELL INSERT F IN BOX 68 (68)

MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER)

T (70) (E.R.O.S.) (72) W Q (74 75 76)

TELESCOPE CASING LOG INDICATOR OTHER DATA

C 3 (1–2)

PUMPING TEST
HOURS PUMPED (nearest hour) 03 (8–9)

PUMPING RATE (gal. per min.) 15. (11–15)

METHOD USED TO MEASURE PUMPING RATE 1 gal.

WATER LEVEL (distance from land surface)

BEFORE PUMPING 29 (17–20) ft.

WHEN PUMPING 35 (22–25) ft.

TYPE OF PUMP USED (for test) (27)
- A air
- P piston
- T turbine
- C centrifugal
- R rotary
- O other (describe below)
- J jet
- S 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. (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 (49) LAND SURFACE

– below (49)

01 (50–51) (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)

N

NO survey stakes

DENV-CR00

COUNTY

EMERGENCY/TEMP NO. IF ANY

B 1	4349	SEQUENCE NO. (MDE USE ONLY)	STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL	STATE PERMIT NUMBER
1 2 3	6	526657	please type	HO-95-1192 (70–79) *fill in this form completely*

STATE OF MARYLAND
APPLICATION FOR PERMIT TO DRILL WELL

Date Received (APA) 8 MM DD YY 13

OWNER INFORMATION

Keelty Company
15 Last Name Owner First Name 34

P.O. Box 528
36 Street or RFD 55

Timonium Md. 21094
57 Town 70 State 72 Zip 76

DRILLER INFORMATION

Allen Compton MS D009
Driller's Name 76 License No. 81

Fogles Well Drilling
Firm Name

580 Obrecht Rd
Address

Signature: [signature] Date: 4-14-07

B 2 WELL INFORMATION

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

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

B 3 LOCATION OF WELL

Howard
8 COUNTY 21

Myrtue Property
23 SUBDIVISION 42

SECTION ____ (44 46) LOT 16 (48 50)

Woodstock
52 NEAREST TOWN 71

MILES FROM TOWN (enter 0 if in town) 2 M (73 76 77 78)

B 4

DIRECTION OF WELL FROM TOWN (CIRCLE BOX): N, NE, E, SE, S, SW (circled), W, NW

Woodstock rd.
11 NEAR WHAT ROAD 30

ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX): NORTH N, WEST W, EAST E (circled), SOUTH S

DISTANCE FROM ROAD (34–37) ENTER FT OR MI: FT (38 39)

TAX MAP: 10 BLK: 24 PARCEL: 225

USE FOR WATER (CIRCLE APPROPRIATE BOX)

22
- (D) DOMESTIC POTABLE SUPPLY & RESIDENTIAL IRRIGATION (circled)
- F FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION
- I INDUSTRIAL, COMMERICIAL, DEWATERING
- P PUBLIC WATER SUPPLY WELL
- T TEST, OBSERVATION, MONITORING
- G GEO-THERMAL

NOT TO BE FILLED IN BY DRILLER
HEALTH DEPARTMENT APPROVAL

Howard — COUNTY NAME
A518006-17 — COUNTY NO.

STATE SIGNATURE ____ INSERT S → 41

DATE ISSUED 8/18/07 (43 MM DD YY 48) CO SIGNATURE [signature] EXP. DATE 8/8/08

NORTH GRID 540 000 (50 55) EAST GRID 837 000 (57 63)

APPROXIMATE DEPTH OF WELL 300 FEET (24 28)

APPROXIMATE DIAMETER OF WELL 6 NEAREST INCH

SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X →

SOURCES OF DRILLING WATER
1.
2.
3.

8/28/07
H_2O sample collected @ field.
(Rec)

000
000

X

WRITE THE BOX NUMBER FROM THE MAP HERE

E 837
N 540

METHOD OF DRILLING (circle one)

80
- BORED (or Augered)
- JETTED
- Jetted & DRIVEN
- AIR-ROTary (circled)
- AIR-PERcussion
- ROTARY (Hydraulic Rotary)
- CABLE
- REVerse-ROTary
- DRive-POINT
- other ____

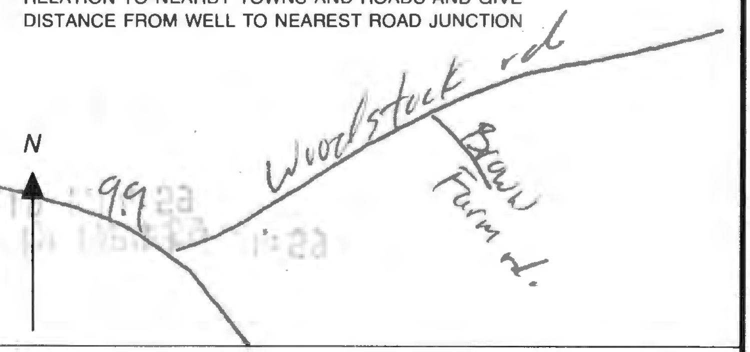
37

REPLACEMENT OR DEEPENED WELLS
(CIRCLE APPROPRIATE BOX)

39
- (N) THIS WELL WILL NOT REPLACE AN EXISTING WELL (circled)
- Y THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED
- S THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY-CONTACT LOCAL APPROVING AUTHORITY FOR POLICY ON STANDBY WELLS
- D THIS WELL WILL DEEPEN AN EXISTING WELL

PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPENED (IF AVAILABLE) 41 __ __ - __ __ __ - __ __ __ __ 52

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



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

APPROP. PERMIT NUMBER HO2006G018

PERMIT No. HO-95-1192 (70 71 72 73 74 75 76 77 78 79)

SPECIAL CONDITIONS
NOTE - APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED

Yield Test Data Sheet

County File # _____

District 2

MD Well Permit #. HO-95-1192

Date of Test: 8-28-07

Subdivision Name: Myrtue PRO.

Section _____ Lot # 16

Street Address: Woodstock rd.

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

Distance from MP to ground surface 1 ft.

Well Depth 100' ft.

Well Driller: Fogle's Well Drilling

Must be submitted with the State of Maryland Well Completion Report

Submit to:

NOTES:

Pump Start Time	Static Water level:	Pumping Rate	Calculated Flow (gallons per minute)
11:15	29 ft.	3 sec. ( ) Time to fill 1 gal. bucket ( ) Flow meter reading (if used)	20

	TIME	WATER LEVEL BELOW M.P.		
Water level and pumping rate must be recorded every 15 minutes				
1	11:15	29 ft.	3	20 GPM
2	11:30	35 ft.	4	15 GPM
3	11:45	35 ft.	4	15 GPM
4	12:00	35 ft.	4	15 GPM
5	12:15	35 ft.	4	15 GPM
6	12:30	35 ft.	4	15 GPM
7	12:45	35 ft.	4	15 GPM
8	1:00	35 ft.	4	15 GPM
9	1:15	35 ft.	4	15 GPM
10	1:30	35 ft.	4	15 GPM
11	1:45	35 ft.	4	15 GPM
12	2:00	35 ft.	4	15 GPM
13	2:15	35 ft.	4	15 GPM
14	2:30	35 ft.	4	15 GPM
15		ft.		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

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: Barlow Well Drilling Telephone #: 410-838-6910
Address: 522 Underwood Lane
Bel Air, MD 21014

(Must circle one) Licensed Plumber (Licensed Well Driller) Licensed Well Pump Installer
License # and name of individual responsible for the field installation:
Name (Print): Michael Isem License# MSD162
***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: Keystone Homes Telephone #:
Subdivision: Mystic Property Lot #: 33 Well Tag # : HO-95 1192 ✓
Site Address: 15516 Dan's Branch Rd
Woodbine MD 21163

Submersible Pump Data	Pitless Adapter	Well Cap and Electric Conduit
Make: Goulds	Make: BII	Two piece watertight cap: ✓
Model #: 7GS05422	Model#: P100	Screened, vented well cap: ✓
Pump Capacity 7 GPM	Depth: 36 (36" min)	Cap secured to casing: ✓
Well Yield: 15 GPM	NSF approved: Yes	Conduit min 18" B.G.: ✓
		Conduit secured to well cap: ✓

Depth of well encountered at time of pump installation: 100 (feet)
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 ____

Piping to house	House Connection
Type: 1" Poly	PVC sleeved to undisturbed soil at wall penetration: ✓
PSI: 200 (160 psi min)	Approximate length of sleeve: 6 feet
Depth of supply line: 36 (36" min)	Sleeve caulked and 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 — date 4/12/2023

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

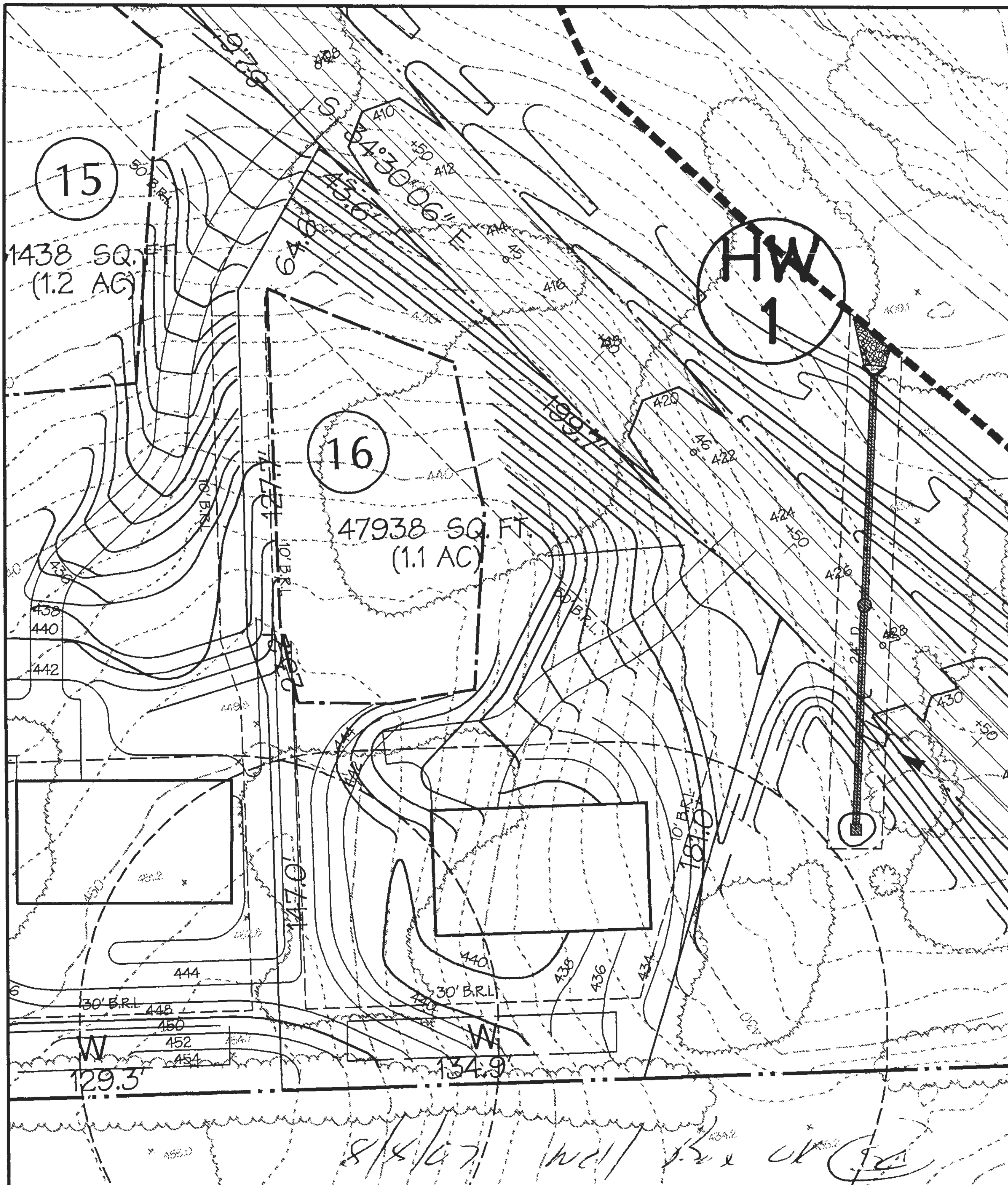
Date Insp. Requested: 4/14/23 Date Insp. Approved: 7/28/23 RR

Inspection Data:

Pitless adapter and 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 installed inside of well casing	✓
Correct well tag attached properly and casing 8" above finished grade	✓ x (well tag missing)
Water supply line sleeved adequately at house connection	✓
Adequate grout observed below pitless adapter	✓

Corrected 7/28/23

RD-215(Rev. 8/00)



MYRTUE PROPERTY

LOT 16

DMW
Daft·McCune·Walker, Inc.
200 East Pennsylvania Avenue
Towson, Maryland 21286
(410) 296-3333
Fax 296-4705
A Team of Land Planners, Landscape Architects, Engineers, Surveyors & Environmental Professionals

Job No. 02033	Scale: 1"=50'	Date: 04/16/07	Drawn By: MDT

n:\02033\Lot Wells\Lot16.DGN

Wed Apr 25 12:03:16 2007

Howard County Health Department

3525 H Ellicott Mills Drive • Ellicott City, MD 21043
(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

ATTENTION WELL DRILLERS!!!

When submitting a well application for a new or replacement well, please indicate one of the following:

- ☑ The well site has been staked by DaFT – McCune Walker on _____ and is ready for site inspection.
- ☐ _____ will call the Health Department for a time to meet in the field to verify a well location.
- ☐ Site plan for new well is attached to well permit application.

Please attach this sheet when submitting your green application. This should help improve communication allowing a more timely service for our citizens.

KN Engineer stated well box is staked on corners

Murtne Prop. Lots 1-31

Is the sample for a public water system? ☐ Yes ☒ No

HOME LAND LABS

243416 Due Date: 08/16/2023
Client: Barlow Wel

Phone: (443) 505-8375 Email: lab@homelandhealthyhomes.com

1220 E Joppa Rd. Ste C505
Towson, MD 21286
MD Lab # 365

108 Old Solomons Island Road, Ste L2
Annapolis, MD 21401
MD Lab # 106

3430 Rockefeller Court
Waldorf, MD 20602
MD Lab # 139

2216 Commerce Road, Ste 2A
Forest Hill, MD 21050
MD Lab # 139

Client Name: Michael Barlow Well Drilling	Property Address: 1886 DAVIS BRANCH RD
Email Address: misom@mbwd.us	WOODSTOCK, MD
Phone Number (410) 838-6910	LOT 33

Field Collection Information

Sampler Name: JAYDEN EDWARDS		Field pH: NA	
Sampler ID #: 3059JE		Field Chlorine (mg/L): 0	
Date Sampled: 8/15/23	Time Sampled: 7:30	Sand	NONE
Well Tag Number: HO-95-1192		Clarity:	CLEAR

Well Casing and Cap Condition

Well Type: ☒ Drilled ☐ Well Pit ☐ Below Grade ☐ Artesian ☐ Hand Dug ☐ N/A ☐ Other:_____

Height Above Grade: 1'	Cap Type: two piece	Casing: PVC	Conduit PVC
Sample Point: Pressure tank		Water Conditioning: NONE	

Requested Testing: (Please check all that apply)

☐ Potability (Bacteria, Nitrate + Nitrite, Turbidity)
☐ FHA/VA (Bacteria, Nitrate + Nitrite, Turbidity, Lead, Iron)

☒ Bacteria	☐ Chlorides	☐ Total Dissolved Solids
☐ Lead	☐ Hardness	☐ Copper
☐ Nitrate + Nitrite	☐ Arsenic	☐ VOCs
☐ Iron	☐ Cadmium	☐ Other: _____
☐ Turbidity	☐ Gross Alpha	☐ Other: _____

List rush samples below
Refer to table for rush turnaround times and fees

Release Signatures

Released By: Michael Ison Date/Time: 8/15/23 9:20
Released By: _____ Date/Time: _____
Released By: _____ Date/Time: _____
Received in lab by: Scott Edens Date/Time: 8/15/23 9:20
Sample temperature upon receipt: _____

Sand	SM 2540F	Not Detected	NA	ml/L/hr	-	0.5	M K - 365	08/03/2023

Report Notes

The lab added the following notes for your report:

- pH must be analyzed in the field to be in accordance with EPA protocol.

Approved By: Kevin Barnaba Kevin Barnaba, Lab Director

Understanding the Results

This narrative is intended to help the recipient understand the results. The information listed below is for tests commonly sampled or analyzed by Home Land Environmental Labs. For a full list of the Environmental Protection Agency's (EPA) Primary and Secondary Drinking Water Standards, please visit www.epa.gov. For more information on the services we offer, please visit www.homelandhealthyhomes.com.

Definitions and Acronyms

Maximum Contamination Level (MCL): A level established by the EPA which is the "highest level of a contaminate that is allowed in drinking water." Any level that exceeds the MCL is considered unsafe for human consumption. Secondary MCL (SMCL) is used for Secondary Drinking Water Standards.
Action Level:A measure of the effectiveness of the corrosion control treatment in water systems.
Not Detected (ND): Any level below the reporting limit.
Analyst: Refers to the individual whom conducted the test.
Method: The type of analysis used to determine the results.
Reporting Limit (RL): The lowest level that can be detected by the method used for the analysis.
Primary Drinking Water Standard: Enforceable standards developed by the EPA. Levels that exceed the MCL for a particular standard are considered too unsafe for human consumption.
Secondary Drinking Water Standard: Standards developed by the EPA. Secondary standards are generally not considered to be dangerous to human health. They may cause aesthetic or cosmetic problems to the water quality or plumbing distribution system.

This table is for informational purposes only. See first page of report for your results.

Parameter	MCL/SMCL	Type	Effects	Source	Common Treatment Options
Total Coliform Bacteria	Present or 1 MPN/ 100mL	Primary	Used to indicate whether potentially harmful bacteria are present	Naturally Present	Well Repair and Chlorination, UV light
E. Coli Bacteria	Present or 1 MPN/ 100mL	Primary	Stomach illness	Human and animal fecal waste	Well Repair and Chlorination, UV light
Nitrates	10.0 mg/L	Primary	Blue-Baby Syndrome	Fertilizers and sewage	Reverse Osmosis System
Nitrites	1.0 mg/L				
Lead	Action Level of 0.015 mg/L	Primary	Slowed mental development, kidney problems, high blood pressure	Corrosion of household plumbing systems; erosion of natural deposits	Acid Neutralizer, Chemical Feeder (Soda Ash), Pipe Replacement
Radium Gross Alpha	15.0 pCi/L	Primary	Increased risk of cancer	Naturally occurring	Water Softener
Radium 226 & 228	5.0 pCi/L				
Volatile Organic Compounds (VOCs)	Varies	Primary	Increased risk of cancer	Gas and chemical leaks	Charcoal Filter
Arsenic	0.010 mg/L	Primary	Skin Damage, circulatory problems, cancer	Natural deposits, orchards, industrial waste	Reverse Osmosis System
Cadmium	0.005 mg/L	Primary	Kidney damage	Pipes, natural deposits, industrial waste	Reverse Osmosis System, Water Softener
Copper	Action Level of 1.3 mg/L	Primary	Gastrointestinal distress, liver or kidney damage	Corrosion of household plumbing systems, erosion of natural deposits	Acid Neutralizer, Reverse Osmosis System, Pipe Replacement
	1.0 mg/L	Secondary	Metallic taste; blue-green staining		
Turbidity (Public Water Systems	1.0 NTU	Primary	Water treatment intereference, possible bacteria indicator	Varies	Filtration, Source Protection
Turbidity (Private Wells)	10.0 NTU (MD COP Requirement)	Primary	Possible bacteria indicator	Surface water, iron, other	Filtration, Source Protection
Iron	0.3 mg/L	Secondary	Possible staining on plumbing fixtures and laundry	Naturally occurring	Water Softener
Chlorides	250 mg/L	Secondary	Salty taste, plumbing corrosion	Salt water intrustion, road salts	Source Protection, Whole House Reverse Osmosis System
pH	Outisde of 6.5-8.5 (Neutral range)	Secondary	Low pH: Bitter metallic taste, corrosion High pH: Slippery feel, soda taste, Deposits	Naturally occurring	Acid Neutralizer

HOME LAND
LABS

242879 Due Date: 08/07/2023
Client: Barlow Wel

Phone: (443) 505-8375 Email: lab@homelandhealthyhomes.com

1220 E Joppa Rd. Ste C505
Towson, MD 21286
MD Lab # 365

108 Old Solomons Island Road, Ste L2
Annapolis, MD 21401
MD Lab # 106

3430 Rockefeller Court
Waldorf, MD 20602
MD Lab # 139

2216 Commerce Road, Ste 2A
Forest Hill, MD 21050
MD Lab # 139

Please provide completed form with samples. Highlighted fields are required.

Client Name: BARLOW Well Drilling	Property Address: LOT 33
Email Address: MISOM@MBWD.US	1886 DAVIS BRANCH RD
Phone Number: 410-838-6910	WOODSTOCK, MD

Field Collection Information

Sampler Name: JAYDEN EDWARDS		Field pH: NA	
Sampler ID #: 3059 JE		Field Chlorine (mg/L): 0	
Date Sampled: 8/2/23	Time Sampled: 2:00	Sand	NONE
Well Tag Number: Ho-95-1192		Clarity:	CLEAR
Compliance sample for public water system? ☑ No ☐ Yes		If yes, PWS ID #:	

Well Casing and Cap Condition

Well Type: ☑ Drilled ☐ Well Pit ☐ Below Grade ☐ Artesian ☐ Hand Dug ☐ N/A ☐ Other:_____

Height Above Grade: 1'	Cap Type: TWO Piece	Casing: PVC	Conduit PVC
Sample Point: PS: TANK		Water Conditioning: NONE	

Requested Testing: (Please check all that apply)

- ☑ Potability (Bacteria, Nitrate + Nitrite, Turbidity)
- ☐ FHA/VA (Bacteria, Nitrate + Nitrite, Turbidity, Lead, Iron)

☐ Bacteria	☐ Chlorides	☐ Total Dissolved Solids
☐ Lead	☐ Hardness	☐ Copper
☐ Nitrate + Nitrite	☐ Arsenic	☐ VOCs
☐ Iron	☐ Cadmium	☑ Other: PH
☐ Turbidity	☑ Gross Alpha	☑ Other: SAND
	☑ Gross Beta	

List rush samples below
Refer to table for rush turnaround times and fees

Release Signatures

Released By: Michael ISOM Date/Time: 8/3/23 10:15

Released By: _____ Date/Time: _____

Released By: _____ Date/Time: _____

Received in lab by: Jen Mus Date/Time: 8/3/23 @ 10:15A

Howard County Health Department

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

October 9, 2007

James Keelty and Company, Inc.
61 East Padonia Road
Timonium, MD 21093

RE: Myrtue Property, Lot# 16
Well Tag: HO-95-1192

To Whom It May Concern:

A sample was collected from a yield test August 28, 2007 and submitted to GPL 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 **2.4 ± 1.0 picocuries/liter (pCi/L);** while the **Gross Beta** level was **3.6 ± 1.3 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

Bert Nixon, Director
Bureau of Environmental Health

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

Send Report To:
Beth Nixon

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

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

LABORATORY ANALYSIS REQUEST

Sample Bottle No. A: HO-95-1192 **No. B:** _____ **Field Blank Bottle No. A:** _____ **No. B:** _____

Plant/Site Name: Myrtle Prop. - Lot 16 **County:** Howard

Sample Source: Davis Branch Rd. **Location:** HO-95-1192
(well no., lab sink, sample tap, etc.)

County: ☐ ☒ **Plant No.** ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

CHECK (one per box)

Drinking Water ☑	Community ☐	Source (raw water) ☑	Emergency ☐
Landfill ☐	Non-community ☐	Distribution (treated) ☐	Routine ☐
Stream ☐	Private ☑	MCL ☐	Recheck ☐
Other ☐	Other ☐		Special ☑

Collector: K. Wolf **Telephone No:** 410-313-2645

Date Collected: 8/28/07 **Time Collected:** _____ a.m. 1:30 p.m.

Nitric Acid Preserved: Yes ☒ No ☐ **Iced:** Yes ☐ No ☒

Submitters Code: ☐ ☐ **Federal Project:** ☐ **Field Data:** — (pH) — (Chlorine)

Remarks: _____

✓	Test	EPA Code	Laboratory No.	Results (pCi/L)	Date Reported
✓	Gross Alpha	4000	708237-002	2.4 ± 1.0	9/5/07
✓	Gross Beta	4100		3.6 ± 1.3	
	Radon-222 *Bottle A*	4004			
	Radon-222 *Bottle B*	4004			
	Field Blank *A*	4004			
	Field Blank *B*	4004			
	Tritium				
	Ra - 226	4020			
	Ra - 228	4030			
	Total Uranium	4006			

Date Received: ____/____/____

Supervisor: _____

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

ORIGINAL - LABORATORY

Understanding the Results

This narrative is intended to help the recipient understand the results. The information listed below is for tests commonly sampled or analyzed by Home Land Environmental Labs. For a full list of the Environmental Protection Agency's (EPA) Primary and Secondary Drinking Water Standards, please visit www.epa.gov. For more information on the services we offer, please visit www.homelandhealthyhomes.com.

Definitions and Acronyms

Maximum Contamination Level (MCL): A level established by the EPA which is the "highest level of a contaminate that is allowed in drinking water." Any level that exceeds the MCL is considered unsafe for human consumption. Secondary MCL (SMCL) is used for Secondary Drinking Water Standards.
Action Level:A measure of the effectiveness of the corrosion control treatment in water systems.
Not Detected (ND): Any level below the reporting limit.
Analyst: Refers to the individual whom conducted the test.
Method: The type of analysis used to determine the results.
Reporting Limit (RL): The lowest level that can be detected by the method used for the analysis.
Primary Drinking Water Standard: Enforceable standards developed by the EPA. Levels that exceed the MCL for a particular standard are considered too unsafe for human consumption.
Secondary Drinking Water Standard: Standards developed by the EPA. Secondary standards are generally not considered to be dangerous to human health. They may cause aesthetic or cosmetic problems to the water quality or plumbing distribution system.

This table is for informational purposes only. See first page of report for your results.

Parameter	MCL/SMCL	Type	Effects	Source	Common Treatment Options
Total Coliform Bacteria	Present or 1 MPN/ 100mL	Primary	Used to indicate whether potentially harmful bacteria are present	Naturally Present	Well Repair and Chlorination, UV light
E. Coli Bacteria	Present or 1 MPN/ 100mL	Primary	Stomach illness	Human and animal fecal waste	Well Repair and Chlorination, UV light
Nitrates	10.0 mg/L	Primary	Blue-Baby Syndrome	Fertilizers and sewage	Reverse Osmosis System
Nitrites	1.0 mg/L				
Lead	Action Level of 0.015 mg/L	Primary	Slowed mental development, kidney problems, high blood pressure	Corrosion of household plumbing systems; erosion of natural deposits	Acid Neutralizer, Chemical Feeder (Soda Ash), Pipe Replacement
Radium Gross Alpha	15.0 pCi/L	Primary	Increased risk of cancer	Naturally occurring	Water Softener
Radium 226 & 228	5.0 pCi/L				
Volatile Organic Compounds (VOCs)	Varies	Primary	Increased risk of cancer	Gas and chemical leaks	Charcoal Filter
Arsenic	0.010 mg/L	Primary	Skin Damage, circulatory problems, cancer	Natural deposits, orchards, industrial waste	Reverse Osmosis System
Cadmium	0.005 mg/L	Primary	Kidney damage	Pipes, natural deposits, industrial waste	Reverse Osmosis System, Water Softener
Copper	Action Level of 1.3 mg/L	Primary	Gastrointestinal distress, liver or kidney damage	Corrosion of household plumbing systems, erosion of natural deposits	Acid Neutralizer, Reverse Osmosis System, Pipe Replacement
	1.0 mg/L	Secondary	Metallic taste; blue-green staining		
Turbidity (Public Water Systems	1.0 NTU	Primary	Water treatment intereference, possible bacteria indicator	Varies	Filtration, Source Protection
Turbidity (Private Wells)	10.0 NTU (MD COP Requirement)	Primary	Possible bacteria indicator	Surface water, iron, other	Filtration, Source Protection
Iron	0.3 mg/L	Secondary	Possible staining on plumbing fixtures and laundry	Naturally occurring	Water Softener
Chlorides	250 mg/L	Secondary	Salty taste, plumbing corrosion	Salt water intrustion, road salts	Source Protection, Whole House Reverse Osmosis System
pH	Outisde of 6.5-8.5 (Neutral range)	Secondary	Low pH: Bitter metallic taste, corrosion High pH: Slippery feel, soda taste, Deposits	Naturally occurring	Acid Neutralizer

Oswald, Hank

From: Oswald, Hank
Sent: Thursday, August 17, 2023 8:11 AM
To: Cole, Colleen; Hall, Stephanie; Hill, Amanda; Hill, Chad; Roussell, Lisa; Schmidt, Heather; Huskins, Thomas; Tracey, Megan
Cc: Wolf, Kevin; Martin, Sharhonda; Noah Johnson
Subject: ICOP_1886 Davis Branch Road
Attachments: 1886 Davis Branch Road_ICOP letter (new) Rad.pdf

Hi All:

Good morning. Attached, please find the ICOP letter for 1886 Davis Branch Road.

Should you have any questions or concerns, please don't hesitate to contact me.

Thanks,

Hank

Hank Oswald, L.E.H.S.
Howard County Health Department
Well & Septic Program
410.313.1786
hoswald@howardcountymd.gov

HOWARD COUNTY HEALTH DEPARTMENT

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

INTERIM CERTIFICATE OF POTABILITY

Expiration Date – FEBRUARY 17, 2024

August 17, 2023

Homeowner
1886 Davis Branch Road
Woodstock, MD 21163

RE: Myrtue Property, Lot 33
1886 Davis Branch Road
Building Permit: B22003441
Well Permit: HO-95-1192

Dear Homeowner:

This is to advise you that the septic system installation and water well construction for the above referenced property have been inspected and approved. Final approval of the septic system was granted on **7/24/2023.** Final approval of the well line connection to the dwelling was granted on **7/28/2023.** The well construction was completed on **8/28/2007.** Water samples were collected on **8/02/2023 and 8/15/2023.**

The water sample results indicate that the water samples submitted for testing were free of coliform and fecal coliform bacteria at the time of sampling and are bacteriologically safe for drinking.

Gross Alpha and Beta samples were also collected on **8/28/2007 and 8/2/2023**. Results showed a Gross Alpha level of **2.4** ± 1.0 **pCi/L** and **Gross Beta** level of **3.6 ± 1.3 pCi/L** on **8/28/2007**. Results showed a Gross Alpha level of **0.8 pCi/L** and **Gross Beta** level of **2.0 pCi/L** on **8/2/2023**. 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-95-1192. 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.**

HOWARD COUNTY
HEALTH DEPARTMENT

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

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

Approving Authority,

Hank Oswald

Hank Oswald, L.E.H.S.
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: 08/16/2023

Client: Barlow Well Drilling

Property Address: 1886 Davis Branch Rd Lot 33
Woodstock, MD

Report No: 243416

Sample Time: 08/15/2023 07:30

Date & Time Received: 08/15/2023 09:20

Sampled By: Jayden Edwards 3059JE

Field Preservation: Ice

Sample Point(s): Pressure tank

Water Conditioning Appears to be: None

Field Chlorine: 0.00

Field pH: Not Noted

Well Type: Drilled

Well Height: 1'

Cap Type: 2-Piece

Casing: PVC

Conduit: PVC

Clarity: Clear

Sand: None Observed

Well Tag Number: HO-95-1192

This report is the sole property of Barlow Well Drilling. Any questions about the report MUST be directed to Barlow Well Drilling at (410) 838-6910. Home Land Labs is not at liberty to discuss this report without written consent from Barlow Well Drilling.

Primary Contaminants								
Parameter	**Method**	**Result**	**Pass/Fail**	**Units**	**MCL**	**RL**	**Analyst**	**Date of Analysis**
Bacteria-Total Coliform	Colilert Test	Absent	Pass	Per/100ml	Present	1	J M - 370	08/16/2023
Bacteria-E.coli	Colilert Test	Absent	Pass	Per/100ml	Present	1	J M - 370	08/16/2023

Approved By: Kevin Barnaba Kevin Barnaba, Lab Director

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1220 East Joppa Road #C505
Towson, MD 21286
Phone 443.505.8375
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State Certified Water Quality Lab 365

108 Old Solomons Island Road, Suite I2
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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: 08/07/2023

Client: Barlow Well Drilling
Property Address: 1886 Davis Branch Road Lot 33
Woodstock, MD
Report No: 242879
Sample Time: 08/02/2023 14:00
Date & Time Received: 08/03/2023 10:15
Sampled By: Jayden Edwards 3059JE
Field Preservation: Ice
Sample Point(s): Pressure Tank
Water Conditioning Appears to be: None

Field Chlorine: 0.00
Field pH: Not Noted
Well Type: Drilled
Well Height: 1'
Cap Type: 2-Piece
Casing: PVC
Conduit: PVC
Clarity: Clear
Sand: None Observed
Well Tag Number: HO-95-1192

Primary Contaminants

Parameter	Method	Result	Pass/Fail	Units	MCL	RL	Analyst	Date of Analysis
Gross Beta	EPA 900.0	2.0	Pass	pCi/L	50.0	0.9	F R C - 278	08/05/2023
Bacteria-Total Coliform	Colilert Test	Present	Fail	Per/100ml	Present	1	K B - 370	08/04/2023
Bacteria-E.coli	Colilert Test	Absent	Pass	Per/100ml	Present	1	K B - 370	08/04/2023
Nitrate + Nitrite as N	EPA 353.2	0.9	Pass	mg/L	10	0.5	A D - 365	08/04/2023
Turbidity	EPA 180.1	1.8	Pass	NTU	10	0.5	M K - 365	08/03/2023
Radium Gross Alpha	EPA 900.0	0.8	Pass	pCi/L	15	0.6	F R C - 278	08/05/2023

Secondary Contaminants

Parameter	Method	Result	Acceptable/High	Units	SMCL	RL	Analyst	Date of Analysis
pH	EPA 150.1	6.2	-	pH Units	-	1	M K - 365	08/03/2023

Contaminants

Parameter	Method	Result	Acceptable/High	Units	SMCL	RL	Analyst	Date of Analysis