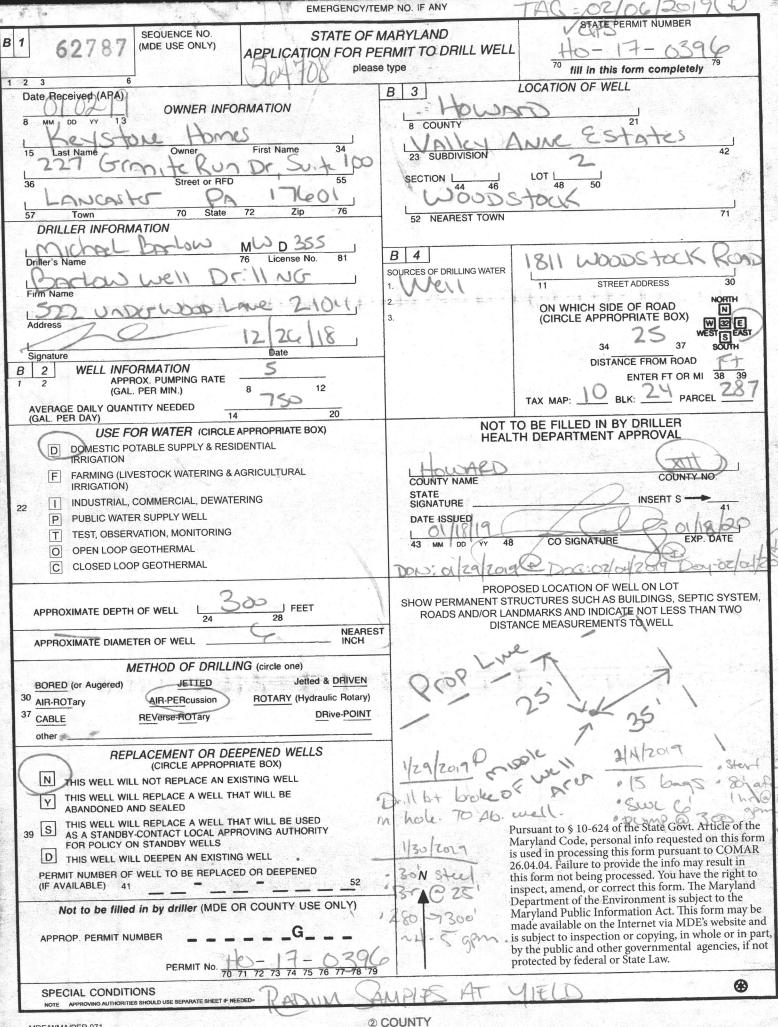
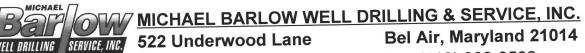


MDE/WMA/PER.071-

COUNTY





522 Underwood Lane

(410) 838-6910

DRILLING

WELL

Fax (410) 838-3582

WELL YIELD REPORT

		Date Test Completed:		February 4, 2019
		Well Depth:	300	feet
Customer Road City State	Keystone Homes 1811 Woodstock Ro Woodstock Maryland		Permit # Subdivision Section Lot #	HO-17-0396 Valley Anne Estates 2

Time		Water Level feet Pump set at 280'		Time to Fill 1-gallon bucket seconds		G.P.M.
12:00 PM		5		6		10.00
12:15 PM		20		6		10.00
12:30 PM		60		6		10.00
12:45 PM		81		6		10.00
1:00 PM		105		6		10.00
1:15 PM		122		6		10.00
1:30 PM		138		6		10.00
1:45 PM		150		6		10.00
2:00 PM		158		6		10.00
2:15 PM		162		6		10.00
2:30 PM		177		6		10.00
2:45 PM		186		6		10.00
3:00 PM		190		6		10.00
		the second sector F	lease note th	e vield may increase or	decrease	
This yield tes	st report is for inform	ational purposes only. F	lease note th	e yielu may morease or	40010400	
over time ah	d the GPM indicated	above is not a guarante	е.			

HOWARD COUNTY HEALTH DEPARTMENT BUREAU OF ENVIRONMENTAL HEALTH WELL & SEPTIC PROGRAM TEL: (410)313-1771 FAX: (410)313-2648

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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: Robert L. Feezer Co.	Telephone #:
Address: 6321 Barnett Avenue	Trepatrono () (
Sykesville, MD 21784	<u> </u>
(Must circle one) Licensed Plumber Licensed W	
License # and name of individual responsible for the fie	
Name (Print): Russel C. George	License#
*A licensed individual must perform the actual insta	llation. Apprentices must be under the supervision of a
licensed journeyman or master plumber, pump insta	ller or well driller. Licenses may be subjected to field
verification. Unlicensed individuals may be reported	to the appropriate licensing agency.
Name of Property Owner: Keystone Homes	Telephone #: Lot #:2Well Tag #: HO - 95 _ 1178
Subdivision: Marriotts Ridge	Lot #: 2 Well Tag #: HO - 95 - 1178
Site Address: 1811 Woodstock Road	
Woodslock , Maryland 21163	
Submersible Pump Data Pitless Adapt	er Well Cap and Electric Conduit
Make: Bospert	Two niece watertight can' Yes
Make: Make: Boshart Model #: Model#: P-100-	ss Screened, vented well cap: Yes
Pump Capacity GPM Depth: 42"	(36" min) Cap secured to casing: Yes
Well Yield: ¹⁵ GPM NSF/WSC ap	proved: Yes Conduit min 18" B.G.: Yes
Depth of well encountered at time of pump installation:	
If pump capacity exceeds well yield, a low water cut off	multiplic required by NSPC 1990 Section 17.8.4
If pump capacity exceeds well yield, a low water cut off	ad used. Must simple one
Torque arrestors, Cable guards, or other acceptable meth	the second second second second second second second N/A
Safety rope, if used, attached to brass rope adapter o	r other acceptable method <u>inside of well cashing</u>
Piping to house House Cor	nection
Type: Poly PVC sleeve	to undisturbed soil at wall penetration: Yes
PSI: 200 (160 psi min) Length of s	leeve(5' minimum from foundation): 10'
	ed properly: Yes
Deput of supply line: (50 linit) Siecere sea	no heard a more than the second
The water evenly line is required to be at least ten fer	et from the septic tank, pump chamber, sewage piping,
The water supply fine is required to be at least ten to	a. If this <u>cannot</u> be accomplished, contact this office for
distribution box, urainificius, and sewage reserve area	. If this cannot be accomptioned, contact the content
approval prior to installation.	09/01/2019
Russell C. George	
Signature of company representative responsible for inst	anation date
Ean Wealth Department Vies On	y-Not to be completed by Installer
For Health Department Use On	THE IS BELOWINGTED BY AND MANY
Date Insp. Requested: Date Insp. Appr	oved: Inspector:
Inspection Data: Pitless adapter watertight & water sup	oly line at least 36" below grade
Two piece cap installed and attached t	o casing securely
Elec. conduit extends at least 18" belo	w grade/attached to cap properly
Safety rope not outside of well cap/cas	ing
Correct well tag attached properly and	casing 8" above finished grade
Control in the annual Property	

Water supply line sleeved adequately at house connection Adequate grout observed below pitless adapter

HOWARD COUNTY HEALTH DEPARTMENT BUREAU OF ENVIRONMENTAL HEALTH WELL & SEPTIC PROGRAM TEL: (410)313-1771 FAX: (410)313-2648

Information Form for the Installation of the Well Pump, Pitless Adapter, and Supply Piping

NOTE: The installer is responsible for requesting an inspection prior to 9 am on the day of the desired inspection. No work is to be covered until approved by the Health Department. All installations must comply with the National Standard Plumbing Code (NSPC, as amended locally) and COMAR 26.04.04 (MD Well Construction Regulations). Submission of a complete form is required prior to Use and Occupancy approval.

Company Name: Address:	Robert L. Feozer Cu. 6321 Barnolt Avenue Sykesville, MD 21784	Yelephone # 	∮410-78:≠0£5	
(March et al. and a second	There in the second sec	1377 11 15 11		

(Must circle one) Licensed Plumber Licensed Well Driller Licensed Well Pump Installer License # and name of individual responsible for the field installation:

Name (Print); Russel C. George

License# PI0148

*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: Keystone Homes	Telephone #:
Subdivision:	Lot #: Well Tag #: HO -*** - ++**
Site Address: 1811 Woodstock Road	17-0396
Woodslock , Maryland 21163	
Submersible Pump Data Pitless Ad	apter Well Cap and Electric Conduit
Make: Make: Bost	Two piece watertight cap: Yes
Model #: Model#: P-	100-SS Screened, vented well cap: Yes
Pump Capacity GPM Depth:4	2" (36" min) Cap secured to casing: Yes
Well Yield: 15 GPM NSF/WSC	approved: Yes Conduit min 18" B.G.: Yes
Depth of well encountered at time of pump installation	n: 100 (feet) Conduit secured to well cap: Yes
If pump capacity exceeds well yield, a low water cut	off switch is required by NSPC 1990 Section 17.8.4
Torque arrestors, Cable guards, or other acceptable m	ethod used-Must circle one
Safety rope, if used, attached to brass rope adapte	r or other acceptable method <u>inside of well casing N/A</u>
	connection

Type: Poly	PVC sleeve to undisturbed soil at wall penetration: Yes
PSI: 200 (160 psi min)	Length of sleeve(5' minimum from foundation): 10'
Depth of supply line:42" (36" min)	Sleeve sealed properly: Yes

The water supply line is required to be at least ten feet from the septic tank, pump chamber, sewage piping, distribution box, drainfields, and sewage reserve area. If this cannot be accomplished, contact this office for approval prior to installation. 09/01/2019

Russell C. George

Signature of company representative responsible for installation date

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

Date Insp. Requested: 9/25/19 Date Insp. Approved: 9/25/19 Inspect	or:	
Inspection Data: Pitless adapter watertight & water supply line at least 36" below grad	e	44 "
Two piece cap installed and attached to casing securely		
Elec. conduit extends at least 18" below grade/attached to cap proper	ly 🖌	24"
Safety rope not outside of well cap/casing	V	
Correct well tag attached properly and casing 8" above finished grade		24"
Water supply line sleeved adequately at house connection		9'
Adequate grout observed below pitless adapter		
Y	-	



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

April 5, 2019

Keystone Homes 227 Granite Run Drive Suite 100 Lancaster, Pennsylvania 17601

> RE: Valley Anne Estates Lot 2 1811 Woodstock Road Well Tag: HO – 17 – 0396

Dear Keystone Homes:

A sample was collected during a yield test on February 4, 2019 and submitted to the Maryland Department of Health Laboratories to assess the possible presence of **Gross Alpha** and **Gross Beta** in the future well water supply. **Gross Alpha** and **Gross Beta** measure the total alpha and beta particle activity in a water supply. These naturally occurring radioactive nuclides have been demonstrated to be present in a certain type of geologic formation known as the Baltimore Gneiss which exists in your area of development within the County.

Results from this screening revealed a Gross Alpha of 11.4 ± 5.2 picocuries/liter (pCi/L), while the Gross Beta level was 12.9 ± 4.1 pCi/L. With the Margin of Error, the Gross Alpha result was above its maximum contaminant level (MCL) of 15 pCi/L, while the Gross Beta level was below its targeted standard 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 well water supply **may not meet** EPA regulatory standards. Additional testing **for these parameters** will be required to secure the future Use & Occupancy. Additional raw water samples for **short and long term Gross Alpha and Gross Beta**, plus **Radium 226 / 228** will be needed to assess any future treatment needs. Alternatively, treatment such as a water softener system or point of use reverse osmosis (R/O) could be considered. If installed, post-treated sampling for **short and long term Gross Alpha**, **Gross Beta** and **Radium 226 / 228** will be **required**. Please **note** that other standard testing parameters (bacteria, nitrate, turbidity and sand) will still be needed to help secure Use & Occupancy.

A copy of the test results is enclosed for your information. Please call this office at **410-313-1773** if you have any further questions or to schedule additional testing.

Sincerely,

Bert Nixon, Director Bureau of Environmental Health

Enclosure cc: Property file

Columbia, Maryland 21045 LABORATORY MALYSIS REQUEST FORM Plant/Site Name: Sample Source: Address Statute	SEND REPORT TO: Howard County Health Bureau of Environment 8930 Stanford Blvd.	Departm tal Healtt	D	State of Ma DHMH - Laboratorie Division of Environm RADIATION LA 1770 Ashland Baltimore, Mary	s Administration nental Sciences BORATORY Avenue	Lab	No.	19 19 19 19
Plant/Site Name:	Columbia, Maryland 21	045	LA	BORATORY AN	ALYSIS REQUES	TFORM		
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Collector: Telephone No.: Alo 313 TCAB Date Collected: $2104/2019$ Time Collected: a.m. 13:00 p.m. Field pH: Field Collected: a.m. 13:00 p.m. Nitric Acid Preserved: Yes No Iced: Yes No V TEST EPA Code Lab No. Method No. Results (pCi/L) Date Analyzed Analyst Reported V TEST EPA Code Lab No. Method No. Results (pCi/L) Date Analyzed Analyst Reported V Gross Alpha 4000 1675 EPA400.0 11.4455.7 02/n/19 RH 02/n/19 Oross Beta 4100 1675 EPA400.0 12.9 ± 4.1 02/n/19 RH 02/n/19 Radium-226 4020 1675 EPA400.0 12.9 ± 4.1 02/n/19 RH 02/n/19 Radium-222 (Bottle A) 4004 100 12.9 ± 4.1 02/n/19 RH 02/n/19 Radon-222 (Bottle B) 4004 100 10.0 10.0 10.0 10.0 10.0 10.0 <t< td=""><td>Drinking Water Landfill Stream Other</td><td>Non- Priva</td><td>munity Community te</td><td>Dist</td><td>rce (Raw) ribution (treated)</td><td></td><td>Emergency Routine Recheck</td><td></td></t<>	Drinking Water Landfill Stream Other	Non- Priva	munity Community te	Dist	rce (Raw) ribution (treated)		Emergency Routine Recheck	
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•Tel. No.: (443) 681-3766 •Fax No.: (443) 681-4507

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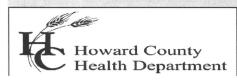
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SEND REPORT TO: 600 Howard County Health D Bureau of Environmenta 8930 Stanford Blvd. Columbia, Maryland 210	epartm Health	DHI Div F	MH - Labora ision of Env ADIATION 1770 As Baltimore,	ironmen N LABO hland A Marylar	dministration tal Sciences RATORY venue	Lab No	00167	5.0
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County 7	5 5 5.5m			Plant No				x
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Type Drinking Water Image: Comparison of the comparis				Source	Point of Collection e (Raw) pution (treated)		<u>Testir</u> Emergency Routine Recheck Special	
Submitters Code:	(A /s) Yes [)) No		Te Ti Fi	deral Project: elephone No.: me Collected: eld Chlorine: ed: Yes	P+S- NEG	3_26	4 <u>3</u> 5: <u>co</u> p.m.
TEST	EPA	Lab No.	Method	No.	Results (pCi/L)	Date Analyzed	Analyst	Date
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PROGRAM COPY SAMPLE TESTED

AMPLE TESTED AS RECEIVED

. Sitter



Bureau of Environmental Health Attn: Bert Nixon, Director

DATE: MARCH 1, 2019 DATE OF SERVICE: FEBRUARY 4, 2019 INVOICE #: 2019-004

Invoice

8930 Stanford Boulevard, Columbia, MD 21045 Phone 410-313-2640 Fax 410-313-2648 www.hchealth.org

BILL Keystone Homes TO 227 Granite Run Dr. Suite 100 Lancaster, PA 17601 COMMENTS

Payment due upon receipt. Letter and results will be released upon receipt of payment.

DATE	DESCRIPTION	BALANCE	AMOUNT
2/4/19	Gross Alpha/Beta testing performed for Lot 2 Valley Anne Estates (1811 Woodstock Road) HO - 17 - 0396		\$45.00
n			
			AMOUNT DUE
			\$45.00

Please detach and return with payment.

REMITTANCE	
Invoice #	2019-004
Site Information	Valley Anne Estates Lot 2
Amount Due	\$45.00

Recept 64815 4/1/19

Make Checks Payable to: Director of Finance Mail Payments to: Bureau of Env. Health

MARYLAND DEPARTMENT OF THE ENVIRONMENT, WATE 1800 Washington Blvd., Baltimore, Maryland	ER MANAGEMENT ADMINIST 21230 (410) 537-3784	RATION	an in Anno Carl
**************************************	NG REPORT FORM	*****	*****
******	needed))09	*****
SUBMIT COPIES OF COMPLETED FORM TO: * COUNTY ENVIRONMENTAL AGENCY (contact MDE, WMA if address r	needed)		
* WELLOWNER			
	day/year)		
* PERMIT NUMBER OF ABANDONED WELL (if any)	Ho = 1	7 _ 03	396
* PERMIT NUMBER OF REPLACEMENT WELL:		<u> </u>	_
* PERSON ABANDONING WELL: Michael Borton WELL	DRILLER'S LICENSE NUI CIRCLE: M	$\frac{35}{MBER} = \frac{35}{MSD / MC}$	
* OWNER'S NAME: KC-1Stone Homes		ATION MAP	
* WELL LOCATION: COUNTY: NEAREST TOWN: TAX MAP BLOCK 24 PARCEL 287 SUBDIVISION: SECTION: STREET ADDRESS: 181 LOD STOCK ROAD	Woonstork		
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MANTANING DIDDHILLIK PERELIKALPUT (ED) INU			 A second sec second second sec

HOWARD COUNTY HEALTH DEPARTMENT 64708 DATE From Michael Balow Well Drilling Service PHONE # 416- 838-6910 Nell Permit For 811 Woodstock Rd CASH CHECK NO.3718 Dollars **Received** By



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

INTERIM CERTIFICATE OF POTABILITY Expiration Date – APRIL 11, 2020

October 11, 2019

Homeowner 1811 Woodstock Road Woodstock, MD 21163

RE: Valley Anne Est., Lot 2 1811 Woodstock Road Building Permit: B19000479 Well Permit: HO-17-0396

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 9/20/2019. Final approval of the well line connection to the dwelling was granted on 9/25/2019. The well construction was completed on 2/4/2019. Water samples were collected on 9/20/2019, 9/23/2019, 10/4/2019.

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. 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-17-0396. Although the submitted sample results are in compliance with COMAR standards, the Health Department does not guarantee water supplies.

Furthermore, testing for sodium, chlorides, and total dissolved solids (TDS) indicated elevated levels above the SMCL. The results were sent on 3/6/2019 respectively to Keystone Homes and copies of the results are collected by the Health Department. Please be aware that these high levels (if not treated) may have adverse effects with individuals on low-salt diets as well as the plumbing inside the dwelling.

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



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

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 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 "<u>Homeowner Fact Sheet</u>" which illustrates a better understanding for your septic 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,

- h. Half

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

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

FOUNTAIN VALLEY ANALYTICAL LABORATORY, INC.

1413 Old Taneytown Rd. Westminster, MD (410) 848-1014 (410) 876-4554 FAX (410) 848-0298

REPORT OF ANALYSIS

Laboratory ID #:	132991			Account #:	1920		
Reference:	Marriotts Ridge Lot 2			Company:	Robert L Feezer Co- New Homes		
Location:	1811 Woods	stock Road		Requested By	Rick Cross		
	Woodstock,	MD 21163		Source:	Well Water		
Date/ Time Collected	: 9/20/2019	1120		Site:	Pressure Tank		
Date/Time Rec'd:	9/20/2019	1503		Treatment:	None		
Chlorine ppm:	Free: ND	Total	: ND	pH:	6.0		
Collected By:	J. Yeager	6176.	JΥ	Well #:	HO-17-0396		
PARAMETERS		RESULTS	UNITS R	REFERENCE	METHOD D	ATE/TIME/ANALYST	
Bacteria, Coliform, Total,	MPN	>200.5	MPN/ 100 ml	<1.0	SM20 9223B	9/21/2019 / 0930 / CCH	
Bacteria, E. coli, MPN		<1.0	MPN/ 100 ml	<1.0	SM20 9223B	9/21/2019 / 0930 / CCH	
Nitrate		2.49	mg/L	10	601	9/20/2019 / 1545 / CRS	
Turbidity		4.51	NTU	<10	SM20 2130B	9/20/2019 / 1600 / CRS	
Sand		NS	mg/L	5	Visual/Gravimetric	9/20/2019 / 1600 / CRS	

NOTES

- 1 mg/L = milligrams per liter (also, parts per million)
- 2 MPN/ 100 ml = Most Probable Number [of viable bacteria] per 100 ml of sample.
- 3 NS = None Seen (NS indicates less than 5 mg/L)
- 4 NTU = Nephelometric Turbidity Units
- 5 Results less than or within the reference range are considered satisfactory and within potable water limits at the time of sampling.
- 6 ND:None Detected
- 7 Visual well check: Sealed, vented cap
- 8 pH & Chlorine level tested on site

Reason for Test :Use & OccupancyBuilding Permit # :B19000479

FOUNTAIN VALLEY ANALYTICAL LABORATORY, INC. 1413 Old Taneytown Rd. Westminster, MD (410) 848-1014 (410) 876-4554 FAX (410) 848-0298

REPORT OF ANALYSIS

Laboratory ID #: Reference: Location:	133324 Marriotts Ridge Lot 2 1811 Woodstock Road Woodstock, MD 21163 10/4/2019 1234			Account #: Company: Requested By Source:	Well Water	
Date/ Time Collected: Date/Time Rec'd: Chlorine ppm: Collected By:	10/4/2019 10/4/2019 Free: ND R. Ott	1500	: ND	Site: Treatment: pH: Well #:	Pressure T Prior to Ne 5.5 HO-17-039	eutralizer/Softener
PARAMETERS		RESULTS	UNITS	REFERENCE	METHOD	DATE/TIME/ANALYST
Bacteria, Coliform, Total,	MPN	<1.0	MPN/ 100	ml <1.0	SM20 9223B	10/5/2019 / 1600 / CCH
Bacteria, E. coli, MPN		<1.0	MPN/ 100	ml <1.0	SM20 9223B	10/5/2019 / 1600 / CCH

NOTES

- 1 MPN/ 100 ml = Most Probable Number [of viable bacteria] per 100 ml of sample.
- 2 Results less than or within the reference range are considered satisfactory and within potable water limits at the time of sampling.
- 3 ND:None Detected
- 4 Visual well check: Sealed, vented cap
- 5 pH & Chlorine level tested on site

Reason for Test :Use & OccupancyBuilding Permit # :B19000479

Date Reported: <u>10/7/2019</u>

MD State Certification # 133

FOUNTAIN VALLEY ANALYTICAL LABORATORY, INC.

1413 Old Taneytown Rd. Westminster, MD (410) 848-1014 (410) 876-4554 FAX (410) 848-0298

REPORT OF ANALYSIS

Laboratory ID #: Reference: Location: Date/ Time Collected: Date/Time Rec'd: Chlorine ppm:		•		Account #: Company: Requested By Source: Site: Treatment:	Well Water Pantry Sink Neutralizer/Softener	
Collected By:	R. Ott	0266		pH: Well #:	7.6 HO-17-03	96
PARAMETERS	-	RESULTS	UNITS	REFERENCE	METHOD	DATE/TIME/ANALYST
Gross Alpha, Short Term		<2.0	pCi/L	15	900.0	9/25/2019 / 1558 / MJN
Gross Beta, Short Term		<2.7	pCi/L	50	900.0	9/25/2019 / 1558 / MJN
Gross Alpha, Long Term		Pending	pCi/L	15	900.0	
Gross Beta, Long Term		Pending	pCi/L	50	900.0	

NOTES

- 1 pCi/L = picocuries per liter
- 2 Results less than or within the reference range are considered satisfactory and within potable water limits at the time of sampling.
- 3 Short Term Gross Alpha Detection Limit: 2.0 pCi/L; Short Term Gross Beta Detection Limit: 2.7 pCi/L
- 4 Sub-contracted to Reference Lab #278
- 5 ND:None Detected
- 6 Visual well check: Sealed, vented cap
- 7 pH & Chlorine level tested on site

Reason for Test :Use & OccupancyBuilding Permit # :B19000479

Date Reported: <u>9/26/2019</u>

REPORT OF ANALYSIS

Laboratory ID #:	133036			Account #:	1920	
Reference:	Marriotts Ri	idge Lot 2		Company:	Robert L I	Feezer Co- New Homes
Location:	1811 Wood	stock Road		Requested By	: Rick Cros	S
	Woodstock,	MD 21163		Source:	Well Wate	er
Date/ Time Collected:	9/23/2019	1110		Site:	Pressure 7	Tank
Date/Time Rec'd:	9/23/2019	1518		Treatment:	Prior to N	eutralizer/Softener
Chlorine ppm:	Free: ND	Total	l: ND	pH:	6.2	
Collected By:	R. Ott	0266	RO	Well #:	HO-17-03	96
PARAMETERS	-	RESULTS	UNITS	REFERENCE	METHOD	DATE/TIME/ANALYST
Radium-226		0.8	pCi/L	****	903.1	10/2/2019 / 1437 / MJN
Radium-228		1.0	pCi/L	****	Ra-05	9/30/2019 / 1231 / MJN

NOTES

- 1 ****Radium 226 and Radium 228 combined have a reference of 5 pCi/L
- 2 pCi/L = picocuries per liter
- 3 Radium 226 Detection Limit: 0.1 pCi/L; Radium 228 Detection Limit: 0.7 pCi/L
- 4 Results less than or within the reference range are considered satisfactory and within potable water limits at the time of sampling.
- 5 Sub-contracted to Reference Lab #278
- 6 ND:None Detected
- 7 Visual well check: Sealed, vented cap
- 8 pH & Chlorine level tested on site

Reason for Test :Use & OccupancyBuilding Permit # :B19000479

Date Reported: <u>10/7/2019</u>

FOUNTAIN VALLEY ANALYTICAL LABORATORY, INC.

1413 Old Taneytown Rd. Westminster, MD (410) 848-1014 (410) 876-4554 FAX (410) 848-0298

REPORT OF ANALYSIS

Laboratory ID #:	133034			Account #:	1920		
Reference:	Marriotts Ri	dge Lot 2		Company:	Robert L Feezer Co- New Homes		
Location:	1811 Woods	stock Road		Requested By	Rick Cross		
	Woodstock,	MD 21163		Source:	Well Wate	er	
Date/ Time Collected:	9/23/2019	1105		Site:	Pantry Sir	ık	
Date/Time Rec'd:	9/23/2019	1518		Treatment:	Neutralize	er/Softener	
Chlorine ppm:	Free: ND	Total	: ND	pH:	7.2		
Collected By:	R. Ott	0266	RO	Well #:	HO-17-03	96	
PARAMETERS		RESULTS	UNITS	REFERENCE	METHOD	DATE/TIME/ANALYST	
Radium-226		0.3	pCi/L	****	903.1	10/2/2019 / 1437 / MJN	
Radium-228		<0.7	pCi/L	****	Ra-05	9/30/2019 / 1231 / MJN	

NOTES

- 1 ****Radium 226 and Radium 228 combined have a reference of 5 pCi/L
- 2 pCi/L = picocuries per liter
- 3 Radium 226 Detection Limit: 0.2 pCi/L; Radium 228 Detection Limit: 0.7 pCi/L
- 4 Results less than or within the reference range are considered satisfactory and within potable water limits at the time of sampling.
- 5 Sub-contracted to Reference Lab #278
- 6 ND:None Detected
- 7 Visual well check: Sealed, vented cap
- 8 pH & Chlorine level tested on site

Reason for Test :Use & OccupancyBuilding Permit # :B19000479

Date Reported: <u>10/7/2019</u>



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

March 6, 2019

Keystone Homes 227 Granite Run Drive Suite 100 Lancaster, PA 17601

Re: Water sample results for well #HO-17-0396 at 1811 Woodstock Road

Dear Keystone Homes,

The Health Department received results from testing for sodium, chloride, and total dissolved solids (TDS) from the well #HO-17-0396 at 1811 Woodstock Road.

Elevated sodium levels in drinking water may affect individuals on low-salt diets. The action level for sodium is 20 milligrams per liter (mg/L); sodium from the well measured 176.70 mg/L.

Chloride and TDS are both considered secondary contaminants, meaning high concentrations can affect taste, color, odor, or corrosive properties of water but present no risk to health. The secondary maximum contaminant level for chloride is 250 mg/L; **chloride from the well measured 450 mg/L**. The secondary maximum contaminant level for TDS is 500 mg/L; **TDS from the well measured 991 mg/L**.

Sodium, chloride, and TDS are all secondary contaminants and will not affect the issuance of a Certificate of Potability for the well. Given the elevated levels of sodium, chloride, and TDS Keystone Homes or the future homeowner may want to consult a plumber and/or water treatment company to discuss options. Please be aware that any backwash generated from a treatment system must be disposed of in a subsurface disposal system. Prior to installing a system that generates backwash, please contact the Health Department to ensure that all regulatory requirements are met.

Please contact me at the number or email below with any questions regarding the results of water sampling.

Sincerely,

Sah alli

Sarah Collins, L.E.H.S. Howard County Health Department Well & Septic Program <u>SCollins@howardcountymd.gov</u> 410-313-6287

Cc: Community Hygiene Program File

Website: www.hchealth.org Facebook: www.facebook.com/hocohealth Twitter: @HoCoHealth

	d County Health De		TR	Division of Environmental So ACE METALS LABO				Date Received	
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State of Maryland Department of Health Laboratories Administration Division of Environmental Sciences TRACE METALS LABORATORY 1770 Ashland Avenue, Baltimore, Maryland 21205 Robert Myers, Ph.D., Director



Certificate of Analysis

HOWARD CO ENVIRONMENTAL HLTH 8930 STANFORD BLVD COLUMBIA, MD 21045

Lab Project No:	E19002419	Date Coll.:02/04/2019	Date Received:02/05/2019	Submitted By:	Cabahug J			
Field ID: HOJC0396Na Lab No.: E19002419001								
Method	Element	<u>.</u>	Result	Units	Date Analyzed			
EPA 200.7	Sodium		176.70	ppm	02/14/2019			

Comments:

Approved by:	Sadia	Nuneca	Approval date: 02/21/2019

**The following methods are included in our A2LA Scope of Accreditation: EPA 200.7, EPA 200.8, EPA 245.1. Samples are tested as received.

This document contains confidential health information that is privileged, confidential and exempt from disclosure under law. If you have received this information in error, please call (410) 767-6944 and arrange for return or destruction.

S:\EnviroFinal-Metals.rpt

H B -8	ad Report To: COULDNS, S ovvard County Health Department fureau of Environmental Health 930 Stanford Blvd. olumbia, Maryland 21045 State of Maryland MDH-Laboratories Administration Division of Environmental Sciences INORGANICS ANALYTICAL LABORATORY 1770 Ashland Avenue Baltimore, Maryland 21205 WATER ANALYSIS	E19002410001 Received: 02/05/2019 Inorganic HOJC0396TD
S A P L E I D	Bottle Number Ho IZ-0396 TD Name Ho IZ-0396 Collector Name Location 8/1 Wooddstrock RoAdd Collector & Name Name Collected: Date Odd (0-1/2019) Time //3=00 Collector & Name Name Collected: Date Odd (0-1/2019) Time //3=00 Phone LEAD 00/9 CHECK (one per box) On-community Image: Community Private Other Source (raw water) Distribution (treated) Image: Community Private Other Other Image: Community Private Other	ounty HowAeD County Data Category Code Data Category Code 9 9 9 9 1 2 6 4 9 1 1 1 1 1 1 1 1 1 1 1 1 1
F I E L D	Plant No. Sampling Preservation: Iced Preservation:	Acid Type of Acid

CHECK TESTS	TESTS	Error Code	RESULTS
1	Alkalinity (Total)		
	Ammonia - N		
~	Chloride		
	Conductance*, Spec.		
/	Dissolved Solids (Total)		
100	Hardness		
	Fluoride		
	Nitrite, N		
	Nitrate + Nitrite, N		l'anna i a
	Sulfate		
	Total Solids		
	Turbidity*	Later Contractor	4
	Other:		
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* Results reported in Units, all others in milligrams per liter (ppm) Number of

SAMPLE TESTED AS RECEIVED Date Reported_

810

Tests Requested

Section Chief SUBMITTER'S COPY



State of Maryland Department of Health Laboratories Administration **Division of Environmental Sciences** INORGANICS ANALYTICAL LABORATORY 1770 Ashland Avenue, Baltimore, Maryland 21205 Robert Myers, Ph.D., Director



Certificate of Analysis

HOWARD CO ENVIRONMENTAL HLTH 8930 STANFORD BLVD COLUMBIA, MD 21045

CABAHUG

Lab Project NoE19002410 Date Coll. 02/04/2019 Date Received 02/05/2019

Submitted By:Collins

Field ID: HOJC0396TD Lab No.: E19002410001				
Analyte	Method	Result	Units	Date Analyzed
Chloride	SM 4500-CI E	450	mg/L	02/11/2019
Total Dissolved Solids	SM 2540C	991	mg/L	02/11/2019

Comments:

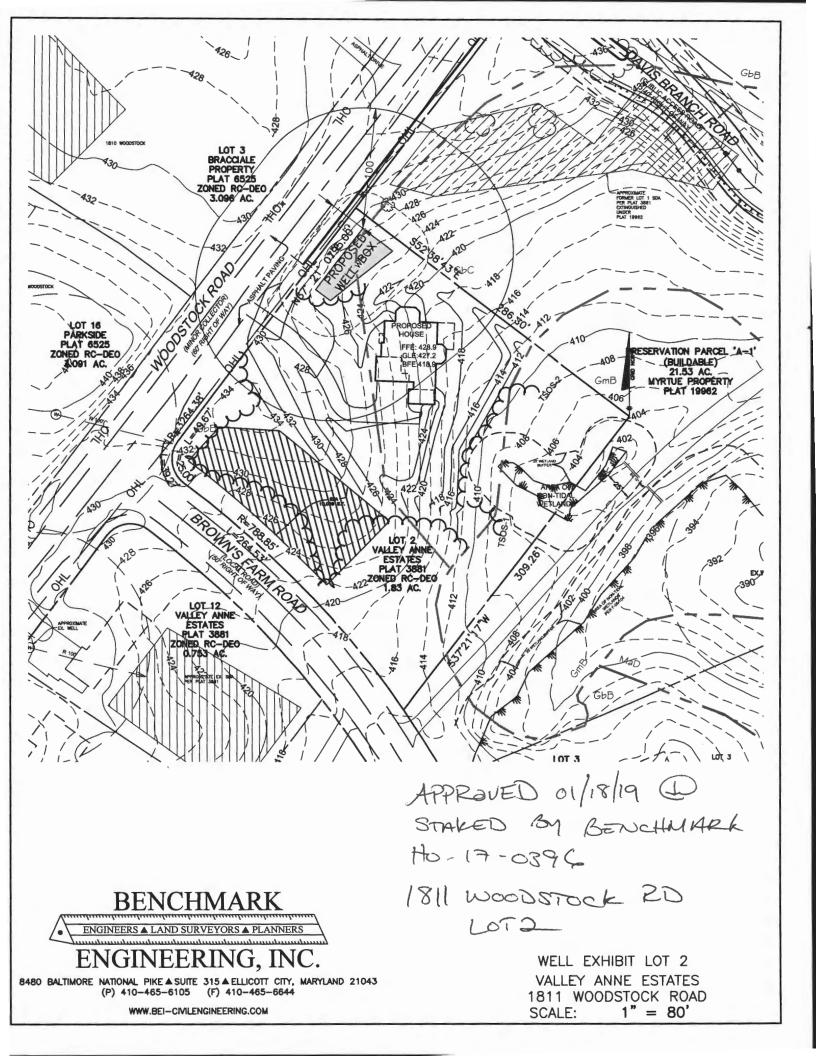
Approved by:

andi plan

Approval date: 02/14/2019

*The following methods are included in our A2LA Scope of Accreditation: EPA150.1, EPA 353.2, EPA 375.2, SM4500F C, SM 4500-CN G & QCM-CN, QCM-CN. Samples are tested as received.

This document contains confidential health information that is privileged, confidential and exempt from disclosure under law. If you have received this information in error, please call (410) 767-6190 and arrange for return or destruction.





Bureau of Environmental Health 8930 Stanford Boulevard, Columbia, MD 21045 Main: 410-313-2640 | Fax: 410-313-2648 TDD 410-313-2323 | Toll Free 1-866-313-6300 www.hchealth.org Facebook: www.facebook.com/hocohealth Twitter: HowardCoHealthDep

Dr. Maura J. Rossman, M.D., 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: 1811 WOODSTOCK RUAD		
VAILLY ANNE Estates	2	
Subdivision/Property Name	Lot #	Road Name
The well site has been staked (professional land surveyor or compared)	by Benc	Essional land surveyors)
on 13 2019		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 4/22/14



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

MEMORANDUM

TO:	Michael Barlow MWD 355
	522 Underwood Lane
	Bel Air. MD 21011

 FROM:
 Joseph Cabahug

 Licensed Environmental Health Specialist 001997

 Howard County Health Department

 Well & Septic Program

RE: Well Permit Special Condition – 1811 Woodstock Road

DATE: January 18th, 2019

The following comments apply to the above referenced Well Permit Application. Please read through and complete as needed.

All wells are in the Baltimore Gneiss Formation and Will require Radium Samples at the Yield.

If you have any questions regarding the above mentioned information, please feel free to contact me at 410-313-2643 or email <u>icabahug@howardcountymd.gov</u>.

JCC