

C1 1169

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND WELL COMPLETION REPORT

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

COUNTY NUMBER A 516063

(THIS NUMBER IS TO BE PUNCHED IN COLS. 3-8 ON ALL CARDS)

ST/CO USE ONLY DATE Received

DATE WELL COMPLETED 2 24 06

Depth of Well 300 (TO NEAREST FOOT)

PERMIT NO. FROM "PERMIT TO DRILL WELL" No. 95-0227

OWNER: Hester, R. D. STREET OR RFD: Heather Glen Way TOWN: Clarksville MD SUBDIVISION: WOODBURY HOMES SECTION: LOT: 15

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. Rows: Sand (0-48), Gray mica Rock (48-300).

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 (ST, CO, PL, OT) Nominal diameter top (main) casing, Total depth of main casing

OTHER CASING (if used)

Table for other casing with columns: diameter inch, depth (feet) from, to

SCREEN RECORD

screen type or open hole (ST, BR, HO, PL, OT) DEPTH (nearest ft.)

NUMBER OF UNSUCCESSFUL WELLS: 0 WELL HYDROFRACTURED (Y/N)

CIRCLE APPROPRIATE LETTER A: A WELL WAS ABANDONED AND SEALED WHEN THIS WELL WAS COMPLETED

I HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN ACCORDANCE WITH COMAR 26.04.04 "WELL CONSTRUCTION"

DRILLERS LIC. NO.: MSD 024 DRILLERS SIGNATURE: Joseph X. Mayne

LIC. NO.: D

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

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

C 3

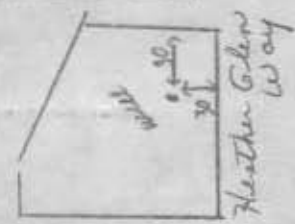
PUMPING TEST

HOURS PUMPED (nearest hour) 3 PUMPING RATE (gal. per min.) 15 METHOD USED TO MEASURE PUMPING RATE: Bucket WATER LEVEL (distance from land surface) BEFORE PUMPING 27 WHEN PUMPING 35 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) PUMP HORSE POWER PUMP COLUMN LENGTH (nearest ft.) CASING HEIGHT (circle appropriate box and enter casing height) 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)



B 1 1469

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL 523944 please type

STATE PERMIT NUMBER HD-95-0227 fill in this form completely

OWNER INFORMATION Date Received (APA) 01 20 06 Horton R. D. 1370 Piccard Drive Rockville Md. 20850

LOCATION OF WELL B 3 Howard 21 23 SUBDIVISION Junbury Grove 42 SECTION 44 46 LOT 48 50 45 52 NEAREST TOWN Clarksville 71 MILES FROM TOWN 1/2 MI

DRILLER INFORMATION Joseph S. Mayne M S D 024 Driller's Name 76 License No. 81 Joseph S. Mayne Well Drilling Firm Name 5512 Ridge Rd Mt. Airy Md. 21771 Address 21771 Signature Date

DIRECTION OF WELL FROM TOWN (CIRCLE BOX) ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX) NEAR WHAT ROAD Heather Glen Way 30 DISTANCE FROM ROAD 25 FT ENTER FT OR MI 38 39 TAX MAP: 34 BLK: 11 PARCEL 77

WELL INFORMATION APPROX. PUMPING RATE (GAL. PER MIN.) 5 AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) 500

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL Howard AS16063 COUNTY NAME COUNTY NO. STATE SIGNATURE DATE ISSUED 2/3/06 EXP. DATE 2/3/07 NORTH GRID 4980 00 EAST GRID 814 000

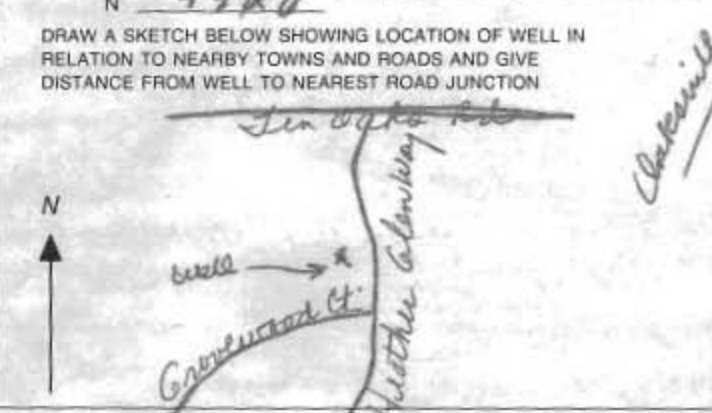
USE FOR WATER (CIRCLE APPROPRIATE BOX) D DOMESTIC POTABLE SUPPLY & RESIDENTIAL IRRIGATION F FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION) I INDUSTRIAL, COMMERCIAL, DEWATERING P PUBLIC WATER SUPPLY WELL T TEST, OBSERVATION, MONITORING G GEO-THERMAL

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

SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X SOURCES OF DRILLING WATER 1. well WRITE THE BOX NUMBER FROM THE MAP HERE E 814 4 N 4980

METHOD OF DRILLING (circle one) BORED (or Augered) JETTED Jetted & DRIVEN AIR-ROTARY AIR-PERCussion ROTARY (Hydraulic Rotary) CABLE REVERSE-ROTARY Drive-POINT

REPLACEMENT OR DEEPEMED WELLS (CIRCLE APPROPRIATE BOX) N THIS WELL WILL NOT REPLACE AN EXISTING WELL 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 DEEPEM AN EXISTING WELL PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEMED (IF AVAILABLE) 41



Not to be filled in by driller (MDE OR COUNTY USE ONLY) APPROP. PERMIT NUMBER HD 2406G 003 PERMIT No. HD-95-0227

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

FIELD DATA SHEET
HOWARD COUNTY WELL YIELD TEST

Well Permit No. HO - 95-0227
 Location of property (road) Heather Glen way
 Subdivision Sunbury Grove Lot X5 Block _____ Plat _____ Sec. _____
 Well Driller Joseph Mayne Owner D.R. Horton

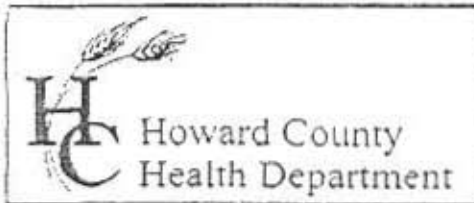
Depth of well 300'
 Distance of measuring point (M.P.) above ground 2'
 Static water level (S.W.L.) below M.P. 27'

I. High rate pumping -- reservoir drawdown

Time pump started 7:30 Pumping rate 15 gpm.
 Total time 5 min to reach pumping water level 35 ft. below M.P.

II. Recovery pump test data - observations to be recorded every 15 minutes

TIME (in 15 minute intervals)	WATER LEVEL below M.P.	PUMPING RATE time to fill 5 gallon bucket	FLOW METER READING (if used)	CALCULATED FLOW (gallons per minute)
7:45	35'	4 sec.	N/A	15 gpm.
8:00	35	4		15
8:15	35	4		15
8:30	35	4		15
8:45	35	4		15
9:00	35	4		15
9:15	35	4		15
9:30	35	4		15
9:45	35	4		15
10:00	35	4		15
10:15	35	4		15
10:30	35	4		15
10:05 - adjust water flow back for water samples				
water level rose to 24 ft. opened flow up to 15 gpm				
at 10:10 to draw down and finish well yield test				
took 5 minutes to reach pumping water level.				



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

TO ALL INTERESTED PARTIES

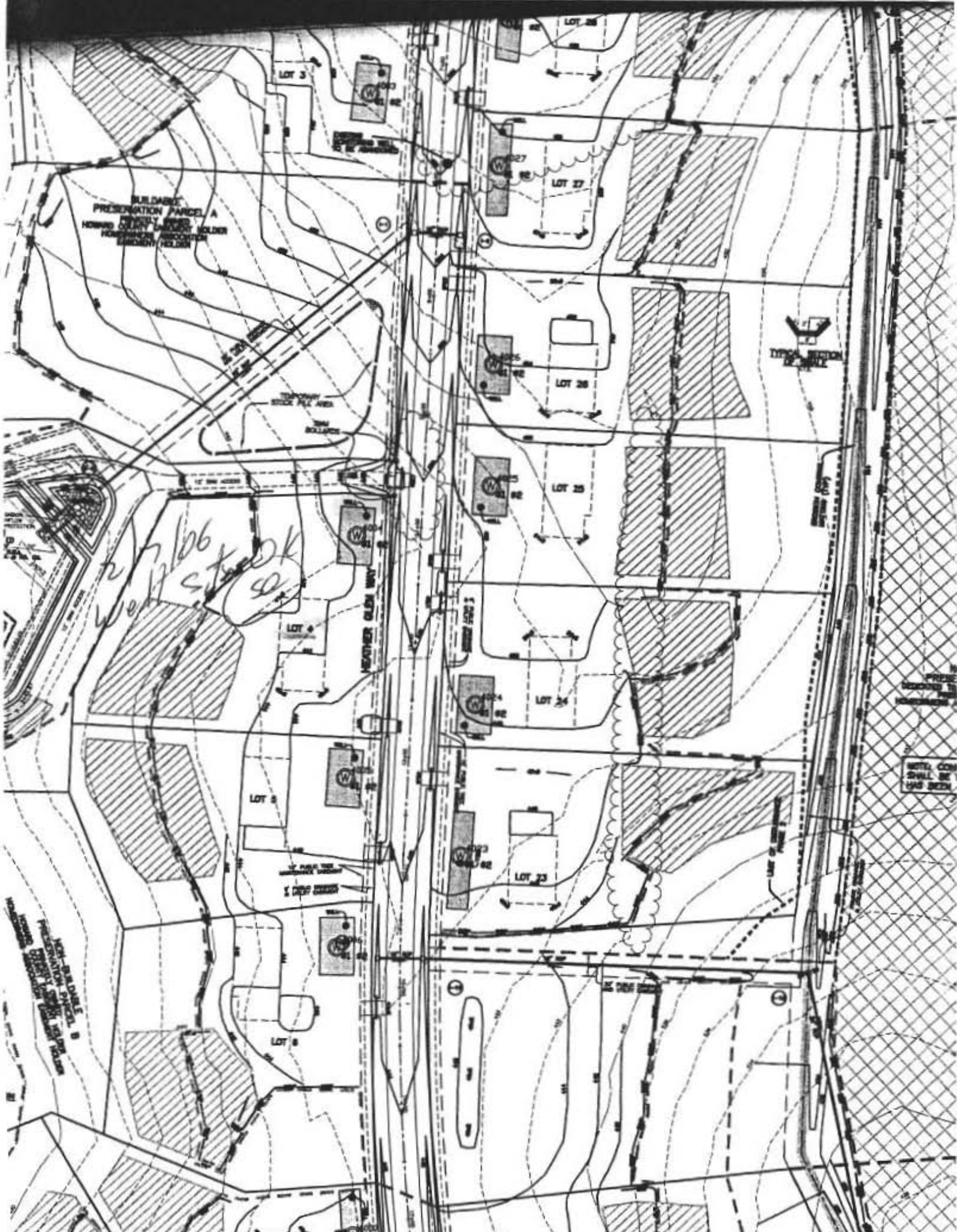
When submitting a well permit application for a proposed well for new construction, please indicate one of the following:

- The well site has been staked by Benchmark Engineering
(professional land surveyor or company employing professional land surveyors)
on 12-14-05 (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 6/10/03

33 Lots for D. R. Horton
Surnbury Grove



BUILDING
PRESERVATION PARCEL A
HENNING COLONY LANDSCAPE HOLDERS
HOMESIDE ASSOCIATION
LANDSCAPE HOLDERS

Well 106
Stack 10

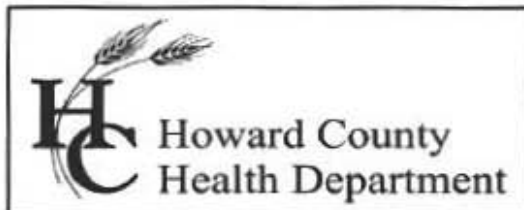
TYPICAL SECTION
OF WALL

PLEASE
RECHECK THE
DIMENSIONS

NOTE: COM
SHALL BE
HAS BEEN

SEE PLAN FOR
DIMENSIONS
AND NOTES
ON SHEET 106

LAW OF PAGE 1



Bureau of Environmental Health
7178 Columbia Gateway Drive, Columbia, MD 21046-2147
Main: 410-313-6300 | Fax: 410-313-6303
TDD 410-313-2323 | Toll Free 1-866-313-6300
www.hchealth.org
Facebook: www.facebook.com/hocohealth
Twitter: HowardCoHealthDep

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

INTERIM CERTIFICATE OF POTABILITY
PERMANENT DEVIATION FOR RADIUM
Expiration Date – August 23, 2015

February 23, 2015

Homeowner
6234 Heather Glen Way
Clarksville, MD 21029

RE: Preserve @ Clarksville, Lot 5
6234 Heather Glen Way
Building Permit: B14000845
Well Permit: HO-95-0227

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 **2/20/2015**. Final approval of the well line connection to the dwelling was granted on **2/20/2015**. The well construction was completed on **2/24/2006**. Water samples were collected on **1/8/2015, 1/20/2015, and 1/29/2015**.

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

Gross Alpha and Beta samples were also collected on **3/20/2014**. Results showed a Gross Alpha level of **21.1 ± 0 pCi/L** and Gross Beta level of **15.7 ± 0 pCi/L**. **This exceeds the maximum contaminant level (MCL) of 15 pCi/L and/or 50 pCi/L, respectively.**

After installation of a radionuclide removal device (water softener), post-treatment water samples were collected on **1/29/2015** and indicated a Gross Alpha level of **± pCi/L**, a Gross Beta level of **± pCi/L**, and a Radium 226/228 level of **0.6 ± 0.7 pCi/L**.

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

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

1. The system must be properly operated and maintained continuously in accordance with the service contract for the life of the residence.

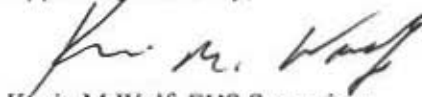
2. It is recommended that a Maryland certified water laboratory certified for radionuclide analysis perform a yearly radionuclide analysis.
3. If you decide to sell or rent your home in the future, you must make any potential buyer/tenant aware of this permanent deviation. **A person who fails to make this disclosure is subject to the penalties set out in COMAR 26.04.04.12F Enforcement and Environment Article 9-1311, Annotated Code of Maryland.**

This certifies that the initial sampling requirements of COMAR 26.04.04 "Well Regulations" have been met for the water supply system installed under well permit HO-95-0227. Although the submitted sample results are in compliance with COMAR standards, the Health Department does not guarantee water supplies.

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

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

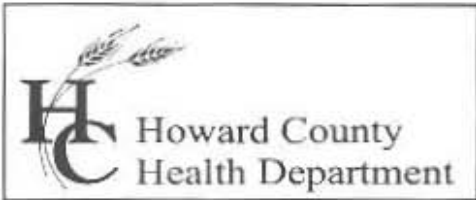
Approving Authority,



Kevin M Wolf, EHS Supervisor.
Environmental Sanitarian
Well & Septic Program

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

Penny Borenstein



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

Penny E. Borenstein, M.D., M.P.H., Health Officer

July 6, 2006

D. R. Horton, Inc.
1370 Picardi Drive
Rockville, Maryland 20850

RE: Water Sample Results
Lot ~~X~~ Turnbury Grove
HO^L 95 - 0227
5

To Whom it May Concern:

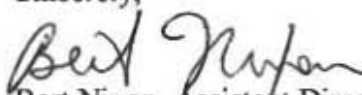
During the recent "yield test" of the well serving the future Lot 4 (located on Heather Glen Way), a sample was collected for volatile organic compounds (VOC's) on February 24, 2006. This testing was performed to establish a baseline evaluation of the well water supply due to known VOC ground water contamination concerns previously documented (during the 1990's and earlier) in properties nearby this development.

Results from this sampling were free of all tested VOC's to the limit of detection for the test method employed. Similar findings were noted for corresponding Field and Trip Blank samples. With respect to these parameters, the future well water supply is currently safe for all uses.

Additionally, our records indicate that **NO** sample was collected for **Gross Alpha** and **Gross Beta** analysis. Consequently, additional testing for these parameters (along with the standard potability tests) will be needed prior to Use and Occupancy. Keep in mind that if the **Gross Alpha** or **Gross Beta** findings are elevated, then testing for **Radium 226/228** will be needed as well.

A copy of the VOC test report is enclosed for your records.

If questions should arise, you may contact Stuart Oster of the Well & Septic Program at (410) 313 - 1771 or me at (410) 313 - 1773.

Sincerely,

Bert Nixon, Assistant Director
Bureau of Environmental Health

Enclosure
cc: Lot 4 Trunbury Grove Property File

Send Report To:

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
TRACE ORGANICS SECTION
201 W. Preston Street, Baltimore, Maryland 21201
J. Mehsen Joseph, Ph.D., Director

Lab No. Date Received

961181 FEB 24 1996

Do not write above this line

LABORATORY ANALYSIS REQUEST

Bottle No: HOGCTG04224(A)(B) Plant/Site Name: Turnberry Grove Lot 5 County: HOWARD

Sample Source: Heather Glen Way Clarksville Location: HO-95-0227
Street Town or City (well no., lab sink, sample tap, etc.)

Sampler ID: 2774AC PWSID: Plant ID:

Collector: GABE CREIGHTON 410 313 2775
(include telephone number)

Date Collected: 2/24/2006 Time Collected: 10 a.m. _____ p.m.

Field Preserved: Yes No Preservative Used: 1:1 HCl + Ascorbic acid Na₂SO₄ 6 mg NH₄Cl

Sample Type: Drinking Water Landfill Source (Raw Water) Liquid
 Community Stream Distribution (Treated) Solid
 Non-Community Sediment Water Treatment Plant POE Other _____
 Private

Specify Program: SDWA NPDES CWA RCRA Consumer Products Other _____

Test Requested: Trihalomethanes Volatiles Semi-volatiles Haloacetic Acids

FIELD DATA: 6.8 0.0 0.0
pH Free Cl Total Cl

Field Blank Bottle No.: HOGCTG04224FB(A)
Trip Blank Bottle No.: HOGCTG04224TB(A)(B)

Remarks: Run full drinking water scan including MTBE
Only 1 field blank due to shortage of distilled volatile free water for blanks

Section Chief: Deborah Miller Date Reported: 3/9/06

•Phone: (410) 767 - 5643

•Fax: (410) 333 - 5237

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

Certificate of Analysis - Volatiles

Sample Name: 961181 TB
 Date Analyzed: 03/07/06

Method: EPA 524.2

<u>Contaminants</u>	<u>DL*</u>	<u>MCL*</u>	<u>Result*</u>	<u>Contaminants</u>	<u>DL*</u>	<u>MCL*</u>	<u>Result*</u>
<u>TRIHALOMETHANES</u>				<u>UNREGULATED</u>			
Bromodichloromethane	0.5	na	ND	Dichlorodifluoromethane	0.5	na	ND
Bromoform	0.5	na	ND	Chloromethane	0.5	na	ND
Chloroform	0.5	na	ND	Bromomethane	0.5	na	ND
Dibromochloromethane	0.5	na	ND	Chloroethane	0.5	na	ND
TOTAL THMs	-	80	-	Trichlorofluoromethane	0.5	na	ND
<u>REGULATED</u>				1,1-Dichloroethane	0.5	na	ND
Benzene	0.5	5	ND	1,3-Dichlorobenzene	0.5	na	ND
Carbon Tetrachloride	0.5	5	ND	Dibromomethane	0.5	na	ND
Chlorobenzene	0.5	100	ND	1,1-Dichloropropene	0.5	na	ND
1,4-Dichlorobenzene	0.5	75	ND	trans-1,3-Dichloropropene	0.5	na	ND
1,1-Dichloroethene	0.5	7	ND	1,1,2,2-Tetrachloroethane	0.5	na	ND
1,2-Dichloroethane	0.5	5	ND	1,3-Dichloropropane	0.5	na	ND
1,2-Dichlorobenzene	0.5	600	ND	2,2-Dichloropropane	0.5	na	ND
1,2-Dichloropropane	0.5	5	ND	cis-1,3-Dichloropropene	0.5	na	ND
cis-1,2-Dichloroethene	0.5	70	ND	2-Chlorotoluene	0.5	na	ND
trans-1,2-Dichloroethene	0.5	100	ND	4-Chlorotoluene	0.5	na	ND
Ethylbenzene	0.5	700	ND	Bromobenzene	0.5	na	ND
Styrene	0.5	100	ND	1,3,5-Trimethylbenzene	0.5	na	ND
Tetrachloroethene	0.5	5	ND	1,2,4-Trimethylbenzene	0.5	na	ND
Trichloroethene	0.5	5	ND	1,2,3-Trichlorobenzene	0.5	na	ND
1,1,1-Trichloroethane	0.5	200	ND	n-Propylbenzene	0.5	na	ND
Toluene	0.5	1000	ND	n-Butylbenzene	0.5	na	ND
Vinyl Chloride	0.5	2	ND	Naphthalene	0.5	na	ND
o-Xylene	0.5	na	ND	Hexachlorobutadiene	0.5	na	ND
m+p-Xylene	1.0	na	ND	Isopropylbenzene	0.5	na	ND
Total Xylenes	1.5	10000	ND	1,2,3-Trichloropropane	0.5	na	ND
Methylene Chloride	0.5	5	ND	1,2-Dibromo-3-Chloropropane	0.5	na	ND
1,1,2-Trichloroethane	0.5	5	ND	p-Isopropyltoluene	0.5	na	ND
1,2,4-Trichlorobenzene	0.5	70	ND	tert-Butylbenzene	0.5	na	ND
				sec-Butylbenzene	0.5	na	ND
				Bromochloromethane	0.5	na	ND
				1,1,1,2-Tetrachloroethane	0.5	na	ND
				1,2-Dibromoethane	0.5	na	ND
				Methyl-tert-Butyl Ether (MTBE)	0.5	na	ND
				Ethyl-tert-Butyl Ether (ETBE)	0.5	na	ND
				tert-Amyl Methyl Ether (TAME)	0.5	na	ND

*All results are in parts per billion (ppb)

ND = Less than the detection limit

na = not applicable

e = estimated value

Section Chief: Deborah Miller-John

Date Approved: 3/9/06

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

Certificate of Analysis - Volatiles

Sample Name: 961181 HDGCTG042248
 Date Analyzed: 03/07/06

Method: EPA 524.2

Contaminants	DL*	MCL*	Result*	Contaminants	DL*	MCL*	Result*
TRIALOMETHANES				UNREGULATED			
Bromodichloromethane	0.5	na	ND	Dichlorodifluoromethane	0.5	na	ND
Bromoform	0.5	na	ND	Chloromethane	0.5	na	ND
Chloroform	0.5	na	ND	Bromomethane	0.5	na	ND
Dibromochloromethane	0.5	na	ND	Chloroethane	0.5	na	ND
TOTAL THMs	-	80	-	Trichlorofluoromethane	0.5	na	ND
REGULATED				1,1-Dichloroethane	0.5	na	ND
Benzene	0.5	5	ND	1,3-Dichlorobenzene	0.5	na	ND
Carbon Tetrachloride	0.5	5	ND	Dibromomethane	0.5	na	ND
Chlorobenzene	0.5	100	ND	1,1-Dichloropropene	0.5	na	ND
1,4-Dichlorobenzene	0.5	75	ND	trans-1,3-Dichloropropene	0.5	na	ND
1,1-Dichloroethene	0.5	7	ND	1,1,2,2-Tetrachloroethane	0.5	na	ND
1,2-Dichloroethane	0.5	5	ND	1,3-Dichloropropane	0.5	na	ND
1,2-Dichlorobenzene	0.5	600	ND	2,2-Dichloropropane	0.5	na	ND
1,2-Dichloropropane	0.5	5	ND	cis-1,3-Dichloropropene	0.5	na	ND
cis-1,2-Dichloroethene	0.5	70	ND	2-Chlorotoluene	0.5	na	ND
trans-1,2-Dichloroethene	0.5	100	ND	4-Chlorotoluene	0.5	na	ND
Ethylbenzene	0.5	700	ND	Bromobenzene	0.5	na	ND
Styrene	0.5	100	ND	1,3,5-Trimethylbenzene	0.5	na	ND
Tetrachloroethene	0.5	5	ND	1,2,4-Trimethylbenzene	0.5	na	ND
Trichloroethene	0.5	5	ND	1,2,3-Trichlorobenzene	0.5	na	ND
1,1,1-Trichloroethane	0.5	200	ND	n-Propylbenzene	0.5	na	ND
Toluene	0.5	1000	ND	n-Butylbenzene	0.5	na	ND
Vinyl Chloride	0.5	2	ND	Naphthalene	0.5	na	ND
o-Xylene	0.5	na	ND	Hexachlorobutadiene	0.5	na	ND
m+p-Xylene	1.0	na	ND	Isopropylbenzene	0.5	na	ND
Total Xylenes	1.5	10000	ND	1,2,3-Trichloropropane	0.5	na	ND
Methylene Chloride	0.5	5	ND	1,2-Dibromo-3-Chloropropane	0.5	na	ND
1,1,2-Trichloroethane	0.5	5	ND	p-Isopropyltoluene	0.5	na	ND
1,2,4-Trichlorobenzene	0.5	70	ND	tert-Butylbenzene	0.5	na	ND
				sec-Butylbenzene	0.5	na	ND
				Bromochloromethane	0.5	na	ND
				1,1,1,2-Tetrachloroethane	0.5	na	ND
				1,2-Dibromoethane	0.5	na	ND
				Methyl-tert-Butyl Ether (MTBE)	0.5	na	ND
				Ethyl-tert-Butyl Ether (ETBE)	0.5	na	ND
				tert-Amyl Methyl Ether (TAME)	0.5	na	ND

*All results are in parts per billion (ppb)
 ND = Less than the detection limit
 na = not applicable
 e = estimated value

Section Chief: Deborah Miller

Date Approved: 3/9/06

Phone: (410) 767-5896

Fax: (410) 225-9318



Bureau of Environmental Health
1778 Columbia Gateway Drive, Columbia, MD 21046-2147
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

LR - Agreement
Recording Fee 20.00
Grantor/Grantee Name:
Pate)
Reference/Control #:
140
LR - Agreement
Surcharge 40.00
SubTotal: 60.00

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

Total: 120.00
#2573548-5
03/10/2014 12:22
CC13-05
#2573548 CC0503 -
Howard Co
Columbia/CC05.03.04 -
Register 04 496

AGREEMENT FOR APPROVAL OF AN INDIVIDUAL DRINKING WELL WITH AN ON-SITE TREATMENT SYSTEM

This agreement is entered into by and between the Howard County Health Department ("the Health Department") and Hiral & Hely Pate ("the Owner").

WHEREAS, the Owner owns a tract of land at street address 6234 Heather Glen Way and the deed and subdivision plat of the property is recorded among the Land Records of Howard County, Maryland, Tax Map #, Block #, Parcel # 0077, Deed Reference # 1523/act and Tax Account # 448417 ("the Property").

WHEREAS, the Property lacks an available public drinking water source and is required to have and individual well as the source of drinking water for the residence of the property.

WHEREAS, the Owner has installed a residential drinking well under well permit 40-95-0239 that has been tested by the Health Department (or a private laboratory certified to perform testing) for radionuclide particles. The results of the tests have shown that the gross alpha particle content and/or the gross beta particle content and/or the combined radium 226/228 levels exceeds the standards of 15 picocuries per liter (pCi /L), 4 millirems per year (mrem/yr) and/or 5pCi/L respectively.

WHEREAS, The Maryland Department of the Environment (MDE) has promulgated rules and regulations under which a Certificate of Potability may be issued and has delegated the authority to issue such Certificate to the Health Department.

WHEREAS, MDE regulations permit the Health Department to issue as a special condition, a permanent deviation to the Certificate of Potability for individual wells where treatment has been installed to meet the maximum contaminate levels (MCL's) for radionuclides.

WHEREAS, MDE has determined that radium can be effectively removed from the drinking water by the use of treatment devices (e.g., ion exchange or reverse osmosis).

WHEREAS, the Owner is requesting that the Health Department issue a Certificate of Potability contingent upon installation and maintenance of a water treatment device to reduce radionuclides.

WHEREAS, neither the Owner nor the Health Department has knowledge of an alternative safe source of water for the Property.

NOW THEREFORE, the parties have agreed to the following terms and conditions:

[Handwritten signature]

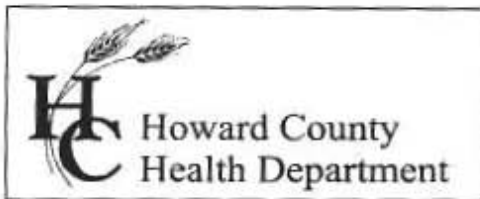
HOWARD COUNTY CIRCUIT COURT (Land Records) WAR 15505, p. 0079, MSA_CE53_15496, Date available 03/21/2014, Printed 02/23/2015.

20
450

1. The Owner will record this Agreement among the Land Records of Howard County, Maryland and provide confirmation to the Health Dept.
2. The Owner agrees to install and maintain a water treatment device, which effectively reduces the gross alpha, gross beta and radium levels to below their respective MCL. The Health Department shall verify that the treatment device is operating effectively and the Owner agrees to allow access to the Health Department to collect a follow-up sample(s).
3. The Health Department shall issue a Certificate of Potability for the well once follow-up sampling shows acceptable gross alpha, gross beta (short and long term) and radium 226 / 228 levels.
4. The Owner agrees that there shall be no liability on part of the Health Department for any immediate or long term impacts to health or property, under any circumstance or including, but not limited to, treatment device failure, improper maintenance or installation, or defect. The Health Department does not warranty or guarantee that the device will adequately or properly function and the Owner agrees to implement and pay for any necessary changes or corrections.
5. The Owner acknowledges and agrees that neither the Health Department nor any of its agents or employees, either officially or individually, underwrites the operation of any system or treatment device.
6. This Agreement shall not be construed to limit any authority of the Health Department to protect the public health, safety or enjoyment of property or to issue any other orders to take any other action, which is now or may hereafter be within its authority.
7. This agreement contains the entire agreement and understanding between the Health Department and the Owner. There are no additional terms other than as contained in this Agreement. This Agreement may not be modified except in writing signed by each of the parties or their authorized representatives.
8. The Agreement shall run with the land and binds the Owner, his heirs, successors, and assigns. The owner agrees to provide a copy of this agreement to any purchaser or lessee of the property.
9. The laws of the State of Maryland govern the provisions of all transactions.

The parties have signed and sealed this Agreement on the dates set forth below.

<u>Hiral Patel</u>	<u>3-15-14</u>	<u>[Signature]</u>	<u>3-15-14</u>
Owner / Hiral Patel	Date	Witness	Date
<u>Hely Patel</u>	<u>3-15-14</u>	<u>[Signature]</u>	<u>3-15-14</u>
Owner / Hely Patel	Date	Witness	Date
<u>Biryan for Manuashwan</u>	<u>3/19/2017</u>		
Health Officer	Date		
<u>BERT NIXON</u>			



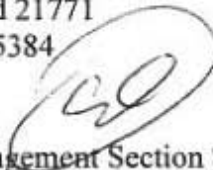
7178 Columbia Gateway Drive, Columbia MD 21046
(410) 313-2640 Fax (410) 313-2648
TDD (410) 313-2323 Toll Free 1-866-313-6300
website: www.hchealth.org

Penny E. Borenstein, M.D., M.P.H., Health Officer

February 8, 2006

MEMORANDUM

TO: Joseph L. Mayne Well Drilling
5512 Ridge Road
Mt. Airy, Maryland 21771
Faxed to 301-829-5384

FROM: Stuart Oster, R.S. 
Groundwater Management Section Supervisor
Well and Septic Program

RE: File Number: P-05-013
Title: Turnbery Grove

The Health Department requires that all the wells in this subdivision be tested for radium and V.O.C.'s (Volatile Organic Contaminants). The optimum time to sample would be when the yield test is being completed. When contacting this office about the yield test, please mention that these water test need to be collected. Also, attached is a letter dated November 21, 2005 from Bert Nixon further explaining the radium testing.

*2/24/06
VOC's sampled
Radium not sampled*

Cc: D. R. Horton, Inc.
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 #: 98496 Account #: 4470
Reference: Preserve @ Clarksville Lot 5 Company: Williamsburg Homes LLC
Location: 6234 Heather Glen Way Requested By: Bob Corbett
Clarksville, MD 21029 Source: Well Water
Date/ Time Collected: 1/8/2015 1215 Site: Pressure Tank
Date/Time Rec'd: 1/8/2015 1400 Treatment: None
Chlorine ppm: Free: ND Total: ND pH: 6.5
Collected By: J. Yeager 6176JY Well #: HO-95-0227

PARAMETERS	RESULTS	UNITS	REFERENCE	METHOD	DATE/TIME/ANALYST
Bacteria, Coliform, Total, MPN	2.0	MPN/ 100 ml	<1.0	SM18 9223	1/9/2015 / 0930 / LLO
Bacteria, E. coli, MPN	<1.0	MPN/ 100 ml	<1.0	SM18 9223	1/9/2015 / 0930 / LLO
Nitrate	5.26	mg/L	10	601	1/9/2015 / 1000 / CRS
Turbidity	3.58	NTU	<10	SM18 2130B	1/9/2015 / 1050 / CRS
Sand	NS	mg/L	5	Visual/Gravimetric	1/9/2015 / 1050 / 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 pH & Chlorine level tested on site
- 8 Visual well check: Sealed, vented cap

Reason for Test : Use & Occupancy
Building Permit # : 14000845

Date Reported: 1/9/2015

Fredericktowne
ENVIRONMENTAL
TESTING
Labs Inc.
MD: 116
VA: 141 / WV: 9924-M



BENCHMARK
ANALYTICS
A METROCHEM LABORATORY
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NELAP Certified PA-DEP: 39-00401
NJ: PA028 • NY: 11827 • MD: 315 • WV: 9953-C
Sayre, PA
NELAP Certified PA-DEP: 08-00380
NJ: PA038 • NY: 11216 • MD: 313

Fredericktowne Labs, Inc. ■ 3020 Ventrie Court ■ P.O. Box 245 ■ Myersville, MD 21773 ■ www.fredericktownelabs.com
301-293-3340 ■ 301-694-7133 ■ FAX 301-293-2366 ■ info@fredericktownelabs.com

TEST REPORT 14033562

8933-2-1, Lot 5, Heathers Glen Way, Clarksville

Page 1 of 1

SAMPLE: 8933-2-1-1, Directly From Well
SAMPLED BY: J. Fogle

Lab ID: 14033562-001

Sample Time:

SLOQ

Test	Result	Method	Analysis Start	Analysis End	Analyst*
FieldSampler	J. Fogle	Field Parameters			
SampTech	G	Field Parameters			

SAMPLE: 8933-2-1-1, Directly From Well
SAMPLED BY: J. Fogle

Lab ID: 14033562-001A

Grab

Sample Time: 03/20/2014 4:20

SLOQ

Test	Result	Method	Analysis Start	Analysis End	Analyst*
Gross Alpha	21.10 pCi/L - X	EPA 900.0	03/26/14 11:40	03/31/14	CP-CV
Gross Beta	15.71 pCi/L -	EPA 900.0	03/26/14 11:40	03/31/14	CP-CV

REMARKS:

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of NELAP unless otherwise noted on the Analytical Report.

* CV = Benchmark Analytics, Inc. Center Valley, PA; SA = Benchmark Analytics, Inc. Sayre, PA

X Value exceeds Maximum Contaminant Level or other Regulatory Level.

MANAGER

Fiona Adamsky
Fiona Adamsky, Division Manager

DATE:

4/1/2014

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 #: 98769 Account #: 4470
Reference: Preserve @ Clarksville Lot 5 Company: Williamsburg Homes LLC
Location: 6234 Heather Glen Way Requested By: Bob Corbett
Clarksville, MD 21029 Source: Well Water
Date/ Time Collected: 1/29/2015 1315 Site: Powder Room
Date/Time Rec'd: 1/29/2015 1515 Treatment: Softener
Chlorine ppm: Free: ND Total: ND pH: 6.4
Collected By: C. Mooshian 7268CM Well #: HO-95-0227

PARAMETERS	RESULTS	UNITS	REFERENCE	METHOD	DATE/TIME/ANALYST
Radium-226	0.6	pCi/L	****	903.1	2/10/2015 / 1405 / MJN
Radium-228	<0.7	pCi/L	****	Ra-05	2/9/2015 / 1323 / SN

NOTES

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

Reason for Test : Use & Occupancy
Building Permit # : 14000845

Date Reported: 2/11/2015

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 #: 98652 Account #: 4470
Reference: Preserve @ Clarksville Lot 5 Company: Williamsburg Homes LLC
Location: 6234 Heather Glen Way Requested By: Bob Corbett
Clarksville, MD 21029 Source: Well Water
Date/ Time Collected: 1/20/2015 1120 Site: Pressure Tank
Date/Time Rec'd: 1/20/2015 1525 Treatment: None
Chlorine ppm: Free: ND Total: ND pH: 6.0
Collected By: C. Holland 0547CH Well #: HO-95-0227

PARAMETERS	RESULTS	UNITS	REFERENCE	METHOD	DATE/TIME/ANALYST
Bacteria, Coliform, Total, MPN	<1.0	MPN/ 100 ml	<1.0	SM18 9223	1/21/2015 / 0945 / CCH
Bacteria, E. coli, MPN	<1.0	MPN/ 100 ml	<1.0	SM18 9223	1/21/2015 / 0945 / 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 pH & Chlorine level tested on site
- 5 Visual well check: Sealed, vented cap

Reason for Test : Use & Occupancy
Building Permit # : 14000845

Date Reported: 1/21/2015



HOWARD COUNTY HEALTH DEPARTMENT

205 23944

DATE
1 / 20 / 2006

Received From

D R HORTON, INC

PHONE #

301 670 8111

301 ... St, ... , ... MD 21042

For 2100 ...

CASH

CHECK

NO.

102414

33.000 ...

Three thousand two hundred eighty ... Dollars

\$

5280

Received By

Mary R. ...