

B 1 20796
1 2 3 6

SEQUENCE NO.
(MDE USE ONLY)

STATE OF MARYLAND
APPLICATION FOR PERMIT TO DRILL WELL

STATE PERMIT NUMBER

HO - 14 - 0013

70 fill in this form completely 79

54630e3 please type

Date Received (APA)

04/10/14
8 MM DD YY 13

OWNER INFORMATION

MB Highland Reserve LLC
15 Last Name Owner First Name 34
1686 E. Gode Dr
36 Street or RFD 55
Rockville Md 20850
57 Town 70 State 72 Zip 76

B 3

LOCATION OF WELL

Howard
8 COUNTY 21
Reagan Property
23 SUBDIVISION 42
SECTION 44 46 LOT 48 50
Highland
52 NEAREST TOWN 71

DRILLER INFORMATION

Allen Compton MS D 009
76 License No. 81
Fogel's Well Drilling LLC
Firm Name
P.O. Box 202 Woodbine Md 21799
Address
Allen Compton 4-10-14
Signature Date

B 4

SOURCES OF DRILLING WATER

- 1.
- 2.
- 3.

Pleasant Springs Ct
Point Ridge Dr
11 STREET ADDRESS 30
ON WHICH SIDE OF ROAD
(CIRCLE APPROPRIATE BOX)
NORTH
WEST EAST
SOUTH
34 450 37
DISTANCE FROM ROAD FT
ENTER FT OR MI 38 39
TAX MAP: _____ BLK: _____ PARCEL _____

B 2

WELL INFORMATION

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

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

USE FOR WATER (CIRCLE APPROPRIATE BOX)

- DOMESTIC POTABLE SUPPLY & RESIDENTIAL IRRIGATION
- FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION)
- INDUSTRIAL, COMMERCIAL, DEWATERING
- PUBLIC WATER SUPPLY WELL
- TEST, OBSERVATION, MONITORING
- OPEN LOOP GEOTHERMAL
- CLOSED LOOP GEOTHERMAL

NOT TO BE FILLED IN BY DRILLER
HEALTH DEPARTMENT APPROVAL

Howard A530307 13
COUNTY NAME COUNTY NO.
STATE SIGNATURE INSERT S → 41
DATE ISSUED 05/27/2014
43 MM DD YY 48 CO SIGNATURE EXP. DATE 5/27/15

APPROXIMATE DEPTH OF WELL 300 FEET
24 28

APPROXIMATE DIAMETER OF WELL 6 INCH
NEAREST INCH

METHOD OF DRILLING (circle one)

BORED (or Augered) JETTED Jetted & DRIVEN
30 AIR-ROTARY AIR-PERCussion ROTARY (Hydraulic Rotary)
37 CABLE REVerse-ROTary DRive-POINT
other _____

REPLACEMENT OR DEEPEMED WELLS
(CIRCLE APPROPRIATE BOX)

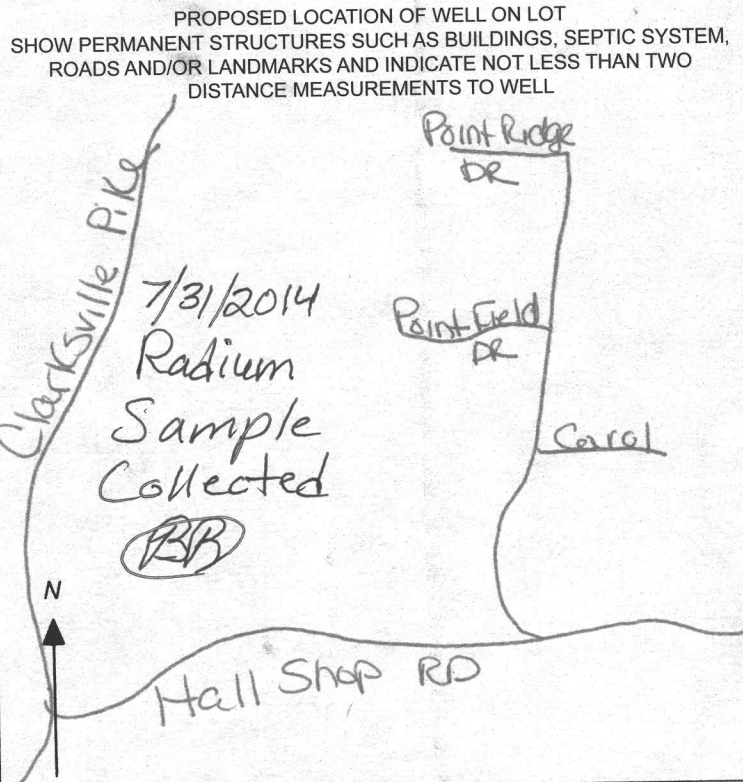
- THIS WELL WILL NOT REPLACE AN EXISTING WELL
- THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED
- THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY-CONTACT LOCAL APPROVING AUTHORITY FOR POLICY ON STANDBY WELLS
- THIS WELL WILL DEEPEM AN EXISTING WELL

PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEMED
(IF AVAILABLE) 41 _____ 52

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

APPROP. PERMIT NUMBER HO 2014 G002

PERMIT No. HO - 14 - 0013
70 71 72 73 74 75 76 77 78 79



SPECIAL CONDITIONS

NOTE APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED=

Radium Sample required @ the yield test

C 1 16628

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND WELL COMPLETION REPORT

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

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

FILL IN THIS FORM COMPLETELY PLEASE TYPE

COUNTY NUMBER

DATE RECEIVED MM DD YY

DATE WELL COMPLETED MM DD YY

DEPTH OF WELL (TO NEAREST FOOT)

PERMIT NO. FROM "PERMIT TO DRILL WELL"

OWNER, WELL SITE ADDRESS, TOWN, SUBDIVISION, SECTION, LOT

WELL LOG

Not required for driven wells

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

Table with columns: DESCRIPTION, FEET (FROM, TO), check if water bearing. Includes entries for Brown Shake, Gray Limestone, Brown, Gray Limestone, White, Gray Limestone.

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

casings types insert appropriate code below (ST, CO, PL, OT), MAIN CASING TYPE, 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.)

Table for SCREEN RECORD with columns: E, A, C, H, S, C, R, E, E, N and rows for slot size and diameter of screen.

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, PUMPING RATE, METHOD USED TO MEASURE PUMPING RATE, WATER LEVEL (before and when pumping), TYPE OF PUMP USED

PUMP INSTALLED

DRILLER INSTALLED PUMP (YES/NO), IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS, TYPE OF PUMP INSTALLED, CAPACITY, PUMP HORSE POWER, PUMP COLUMN LENGTH, CASING HEIGHT

LATITUDE 3 9.1815186, LONGITUDE 7 6.9441605 (DEFAULT COORD. WGS 84), NOTES:

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

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

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

Company Name: _____ Telephone #: _____
 Address: _____

Must circle one: Licensed Plumber / Licensed Well Driller / Licensed Well Pump Installer

License # and name of individual responsible for the field installation:

Name (Print): _____ License# _____

***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: _____ Telephone #: _____
 Subdivision: _____ Lot #: _____ Well Tag #: HO - 1A - 0013
 Site Address: _____

02/26/2020

Submersible Pump Data

Make: _____
 Model #: _____
 Pump Capacity _____
 Well Yield: _____

Pitless Adapter

Make: _____ +
 Model#: _____
 GPM Depth: _____ (36" min)
 GPM NSF/WSC approved: _____

Well Cap and Electric Conduit

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

Depth of well encountered at time of pump installation: _____ (feet)
 If pump capacity exceeds well yield, a low water cut off switch is required by NSPC 1990 Section 17.8.4

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

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

Piping to house

Type: _____
 PSI: _____ (160 psi min)
 Depth of supply line: _____ (36" min)

House Connection

PVC sleeve to undisturbed soil at wall penetration: _____
 Length of sleeve(5' minimum from foundation): _____
 Sleeve sealed properly: _____

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.

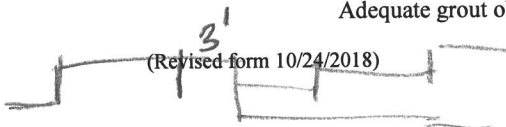
Signature of company representative responsible for installation _____ date _____

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

Date Insp. Requested: 02/26/2020 Date Insp. Approved: 02/26/2020 Inspector: _____
 Inspection Data: Pitless adapter watertight & water supply line at least 36" below grade
 Two piece cap installed and attached to casing securely
 Elec. conduit extends at least 18" below grade/attached to cap properly
 Safety rope not outside of well cap/casing
 Correct well tag attached properly and casing 8" above finished grade
 Water supply line sleeved adequately at house connection
 Adequate grout observed below pitless adapter

38" 02/26/2020
35" 02/26/2020
23" 02/26/2020

House



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

INTERIM CERTIFICATE OF POTABILITY

Expiration Date – OCTOBER 30, 2020

April 30, 2020

Homeowner
12244 Pleasant Springs Court
Fulton, MD 20759

RE: Highland Crossing, Lot 21
12244 Pleasant Springs Court
Building Permit: B19003392
Well Permit: HO-14-0013

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 **2/26/2020**. Final approval of the well line connection to the dwelling was granted on **2/26/2020**. The well construction was completed on **7/31/2014**. Water samples were collected on **4/20/2020**.

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 **7/31/2014**. Results showed a Gross Alpha level of **5.2 ± 1.7 pCi/L** and **Gross Beta** level of **6.7 ± 2.0 pCi/L**. The Gross Alpha was below the maximum contaminant level (MCL) of 15 pCi/L and the Gross Beta was below the target level of 50pCi/L (roughly equivalent to the annual dose rate of 4 millirems per year). At the time of testing and with respect to these parameters, the well water is safe for all uses.

This certifies that the initial sampling requirements of COMAR 26.04.04 "Well Regulations" have been met for the water supply system installed under well permit HO-14-0013. Although the submitted sample results are in compliance with COMAR standards, the Health Department does not guarantee water supplies.

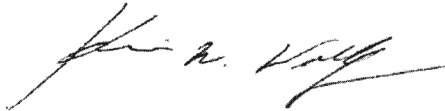
This Interim Certificate of Potability will expire **six months** from the date of issuance. Submission of a second bacteriological test indicating the water is free of coliform and fecal coliform bacteria is required prior to the expiration date, after which time a Final Certificate of Potability will 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.**

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

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

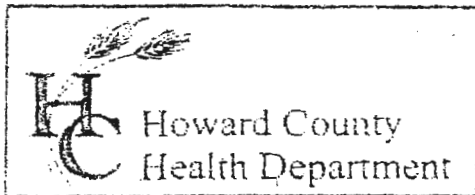
In closing, please refer to our "Homeowner Fact Sheet" for understanding your onsite sewage disposal system. You will also find a link to Maryland Department of the Environment website which elaborates in further detail operation and maintenance of your Septic System.

Approving Authority,



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

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



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

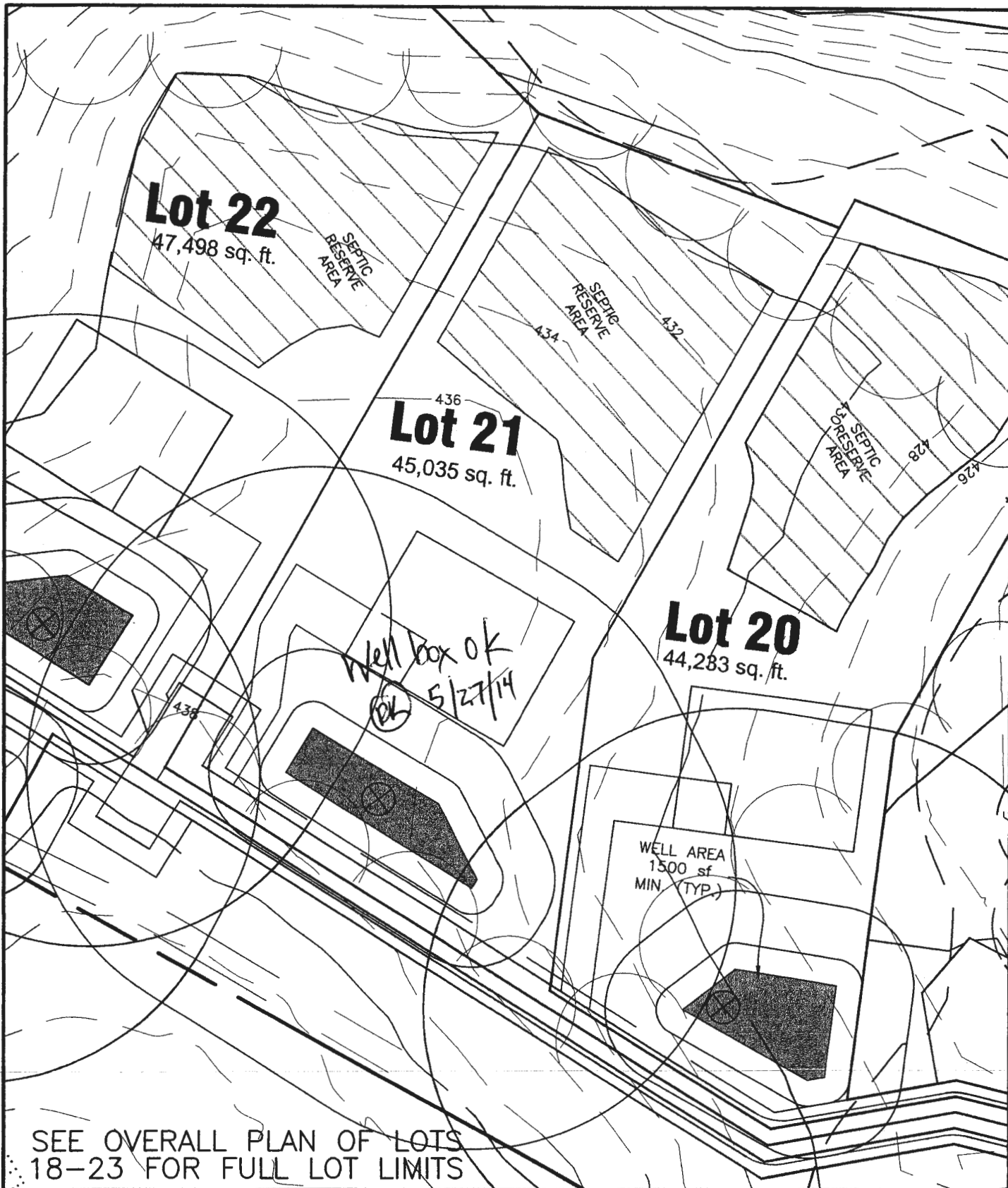
TO ALL INTERESTED PARTIES

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

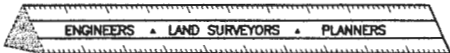
- The well site has been staked by Benchmark Engineering
(professional land surveyor or company employing professional land surveyors)
on 4-4-14 (date) and does not require a site inspection.
- The well driller, builder or property owner will call the Health Department to schedule a time to meet in the 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



BENCHMARK



ENGINEERING, INC.

8480 BALTIMORE NATIONAL PIKE • SUITE 315 • ELLICOTT CITY, MD 21043
PHONE: 410-465-6105 FAX: 410-465-6644

**WELL EXHIBIT
REGAN PROPERTY**

LOT 21

FIFTH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

SCALE: 1" = 50' DATE: 3/11/2014

HOME LAND LABS

9106 Philadelphia Road, Suite 106
 Rosedale, MD 21237
 Phone 443.505.8375
 lab@homelandhealthyhomes.com
 State Certified Water Quality Lab 353

108 Old Solomons Island Road, Suite 12
 Annapolis, MD 21401
 Phone 410.224.4304
 lab@homelandhealthyhomes.com
 State Certified Water Quality Lab 106

3430 Rockefeller Court
 Waldorf, MD 20602
 Phone 240.448.5600
 lab@homelandhealthyhomes.com
 State Certified Water Quality Lab 139

Certificate of Analysis

Report Date: 4/22/2020

Client: Well Water Solutions, Inc.
 Property Address: 12244 Pleasant Springs Court
 Fulton, MD 20759

Report No: 185046
 Sample Time: 04/20/20 11:45
 Date & Time Received: 04/21/20 10:40
 Sampled By: Janet Walker 9006JW (Exp. 9/5/2021)
 Preservation: Ice
 Sample Point(s): Kitchen sink, Bacteria-First floor bathroom sink
 Water Conditioning Appears to be: None

Chlorine Residual: 0.0
 Field pH: 5.4
 Well Type: Drilled
 Well Height: 18"
 Cap Type: 2-piece
 Casing: Steel
 Conduit: PVC
 Clarity: Clear
 Sand: None Observed
 Well Tag Number: HO-14-0013

Primary Contaminants								
Parameter	Method	Result	Pass/Fail	Units	MCL	RL	Analyst	Date of Analysis
Bacteria-Total Coliform	Colitag Test	Absent	Pass	Per/100ml	Present	1	KMB-353	04/22/2020
Bacteria-E.coli	Colitag Test	Absent	Pass	Per/100ml	Present	1	KMB-353	04/22/2020
Nitrate + Nitrite as N	EPA 353.2	Not Detected	Pass	mg/l	10	0.5	MAK-353	04/21/2020
Secondary Contaminants								
Parameter	Method	Result	Acceptable /High	Units	SMCL	RL	Analyst	Date of Analysis
Turbidity	EPA 180.1	2.8	Acceptable	NTU	10	0.5	MAK-353	04/21/2020

HR-21
 B-19003392

Approved By Kevin Barnaba Kevin Barnaba, Lab Director

HOME LAND

LABS

Understanding the Results

This narrative is intended to help the recipient to understand the results. The results listed below are only for tests commonly sampled or analyzed by Home Land Environmental Health Labs. For a full list of the Environmental Protection Agency's (EPA) Primary and Secondary Standards, go to: https://www.epa.gov/sites/production/files/201606/documents/npwdr_complete_table.pdf

Definitions and Acronyms

Analyst: Refers to the individual whom conducted the test.

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 not safe for human consumption.

Method: The type of analysis used to determine the results.

Not Detected (ND): Any level below the reporting limit.

Primary Drinking Water Standard: Enforceable standards developed by the EPA. Levels that exceed the MCL for a particular standard are considered to unsafe for human consumption.

Reporting Limit (RL): The lowest level that can be detected by the method used for the analysis.

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.

*Parameter analyzed by **MSS:** Maryland Spectral Services, **FRC:** Florida Radiochemistry, **ECL:** Enviro-Chem Laboratories

This table is for informational purposes only. See page 1 for your results

Parameter	MCL	Type	Effects	Source	Treatment
Total Coliform	Present	Primary	Used to indicate whether potentially harmful bacteria are present	Naturally Present	Well Repair and Chlorination, UV light
E. coli	Present	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
Nitrites	1.0 mg/L	Primary	Blue-Baby Syndrome	Fertilizers and Sewage	Reverse Osmosis
Lead	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
Gross Alpha	15.0 pCi/L	Primary	Increased risk of cancer	Naturally Occurring	Water Softener
Radium 226 & 228	5.0 pCi/L	Primary	Increased risk of cancer	Naturally Occurring	Water Softener
Volatile Organic Compounds (VOC)	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
Cadmium	0.005 mg/L	Primary	Kidney Damage	Pipes, Natural Deposits, Industrial Waste	Reverse Osmosis
Copper	1.3 mg/L	Primary	Gastrointestinal distress, Liver or Kidney Damage	Corrosion of household plumbing systems; Erosion of natural deposits	Acid Neutralizer, Reverse Osmosis, Pipe Replacement
Iron	0.3 mg/L	Secondary	Possible staining on plumbing fixtures and laundry	Naturally Occurring	Water Softener
Turbidity	10.0 NTU	Secondary	Interferes with filtration	Naturally Occurring	Sediment Filter
pH	6.5-8.5 (Neutral range)	Secondary	Low pH: Bitter metallic taste, Corrosion High pH: Slippery feel; Soda taste; Deposits	Naturally Occurring	Acid Neutralizer

Chain of Custody Form



185046 Date Due: 4/23/20
 Client: Well Water Solutions, Inc.
 Project:

L A B S

9106 Philadelphia Road, Suite 106
 Rosedale, MD 21237
 (443) 505-8375
 MD Lab # 353

108 Old Solomons Island Road, Suite L2
 Annapolis, MD 21401
 (410) 224-4304
 MD Lab # 106

3430 Rockefeller Court
 Waldorf, MD 20602
 (410) 224-4304
 MD Lab # 139

Client Name:
Well Water Solutions, Inc.

Email Address:
 jemoseman@wellwatersolutions.net & jbieber@wellwatersolutions.net

Phone Number:
 410-935-7185 or 301-674-3137

Property Address:
HR-21

12244

Pleasant Springs Ct.

Fulton, MD 20759

Field Collection Information

Sampler Name:	Janet Walker	Field pH:	5.4
Sampler ID #:	9006JW Exp 09/05/21	Field Chlorine (mg/L):	Present / Absent
Date and Time Sampled:	4/20/2020 @ 11:45	Sand:	Present / Absent
Well Tag Number:	HO-14-0013	Clarity:	Clear / Un-clear

Well Casing and Cap Condition BP# **B-19003392**

Height Above Grade:	Cap Type:	Casing:	Conduit:
18"	1 piece / 2 piece	Steel / PVC	PVC
Sample Point: <input checked="" type="checkbox"/> Bacteria collected Raw (No Water Treatment) from First floor bathroom sink. All other samples collected RAW (No Water Treatment) from the kitchen sink.		Water Conditioning: <input checked="" type="checkbox"/> None / All Samples collected Raw from a tap with No Water Treatment	

Requested Testing: (Please check all that apply)

- Potability (Bacteria, Nitrates, pH, Turbidity)
- FHA/VA (Bacteria, Nitrates, Nitrites, pH, Turbidity, Lead and Iron)
- Bacteria
- Lead
- Nitrates
- Iron
- Gross Alpha
- Saltwater Intrusion
- Arsenic
- Cadmium
- Fluoride
- Pesticides
- VOC
- Hardness
- Other: Radium Short Term Gross Alpha & Gross Beta Radium Long Term 226 & 228
- Other: _____
- Other: _____
- Other: _____
- Other: _____

List rush samples below

Refer to table for rush turnaround times and fees

Release Signatures

Released By: *Janet Walker* Date/Time: 4/20/2020 @ 12:40

Released By: *[Signature]* Date/Time: 4/21/20 10:40am

Released By: _____ Date/Time: _____

Received in lab by: *[Signature]* Date/Time: 4/21/20 10:40am

SEND REPORT TO: Bert Nixon DEPARTMENT OF HEALTH AND MENTAL HYGIENE
Howard Co. Env. Health Laboratories Administration
8930 Stanford Blvd. 201 W. Preston St., Baltimore, MD 21201
Columbia, MD 21045 *Robert A. Myers, Ph.D., Director*

Lab No. 8805 2-4H

RADIATION ANALYSIS REQUEST FORM

Plant/Site Name: Regan Property - Lot 21 County: Howard
 Sample Source: Pleasant Springs Ct. Location: HO-14-0013
(Well no., lab sink, sample tap, etc.)
 Radon-222 Bottle A 14-0013 Radon-222 Field Blank Bottle A Radium Blank
 Bottle B _____ Bottle B _____

County 113 Plant No.

--	--	--	--	--	--	--	--	--	--

CHECK (one per Box)

Type	Service	Point of Collection	Testing
Drinking Water <input checked="" type="checkbox"/>	Community <input type="checkbox"/>	Source (Raw) <input checked="" type="checkbox"/>	Emergency <input type="checkbox"/>
Landfill <input type="checkbox"/>	Non-Community <input type="checkbox"/>	Distribution (treated) <input type="checkbox"/>	Routine <input checked="" type="checkbox"/>
Stream <input type="checkbox"/>	Private <input checked="" type="checkbox"/>	MCL <input type="checkbox"/>	Recheck <input type="checkbox"/>
Other <input type="checkbox"/>	Other <input type="checkbox"/>		Special <input type="checkbox"/>

Submitters Code:

--	--

 Federal Project:

--

 Collector: Brian Telephone No.: (410) 313-2643
 Date Collected: 7/31/2014 Time Collected: 11:00 a.m. _____ p.m.
 Field pH: _____ Field Chlorine: _____
 Nitric Acid Preserved: Yes No Iced: Yes No

Remarks: Sample Collected During Yield Test

☑	TEST	EPA Code	Lab No.	Method No.	Results (pCi/L)	Date Analyzed	Analyst	Date Reported
<input checked="" type="checkbox"/>	Gross Alpha	4000	<u>305</u>	<u>KPA900.0</u>	<u>5.2 ± 1.7</u>	<u>8/5/14</u>	<u>MS</u>	<u>8/6/14</u>
<input checked="" type="checkbox"/>	Gross Beta	4100	<u>305</u>	<u>J</u>	<u>6.7 ± 2.0</u>	<u>J</u>	<u>J</u>	<u>J</u>
<input type="checkbox"/>	Radium-226	4020						
<input type="checkbox"/>	Radium-228	4030						
<input type="checkbox"/>	Total Uranium	4006						
<input type="checkbox"/>	Radon-222 (Bottle A)	4004						
<input type="checkbox"/>	Radon-222 (Bottle B)	4004						
<input type="checkbox"/>	Radon Field Blank A	4004						
<input type="checkbox"/>	Radon Field Blank B	4004						
<input type="checkbox"/>	Tritium							
<input type="checkbox"/>								

Date Received: 8/4/14 Received By: Melody Smith
 Data Release Signature: Deborah Miller - JWB Date: 8/8/14

Lab Use Only	Yes	No	N/A
Sample Intact upon arrival?	<input checked="" type="checkbox"/>		
Sample pH < 2.0?	<input checked="" type="checkbox"/>		
Received within holding time?	<input checked="" type="checkbox"/>		

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

SEND REPORT TO:

DEPARTMENT OF HEALTH AND MENTAL HYGIENE
Laboratories Administration
201 W. Preston St., Baltimore, MD 21201
Robert A. Myers, Ph.D., Director

Lab No.

810003-42

RADIATION ANALYSIS REQUEST FORM

Plant/Site Name: _____

County: Howard

Sample Source: Radium Blank

Location: _____

(Well no., lab sink, sample tap, etc.)

Radon-222 Bottle A _____
Bottle B _____

Radon-222 Field Blank Bottle A Radium Blank
Bottle B _____

County

Plant No.

CHECK (one per Box)

Type
Drinking Water <input type="checkbox"/>
Landfill <input type="checkbox"/>
Stream <input type="checkbox"/>
Other _____ <input type="checkbox"/>

Service
Community <input type="checkbox"/>
Non-Community <input type="checkbox"/>
Private <input type="checkbox"/>
Other _____ <input type="checkbox"/>

Point of Collection
Source (Raw) <input type="checkbox"/>
Distribution (treated) <input type="checkbox"/>
MCL <input type="checkbox"/>

Testing
Emergency <input type="checkbox"/>
Routine <input type="checkbox"/>
Recheck <input type="checkbox"/>
Special <input type="checkbox"/>

Submitters Code:

Federal Project:

Collector: B. Baker

Telephone No.: _____

Date Collected: 7/31/2014

Time Collected: _____ a.m. _____ p.m.

Field pH: _____

Field Chlorine: _____

Nitric Acid Preserved: Yes No

Iced: Yes No

Remarks: _____

<input checked="" type="checkbox"/>	TEST	EPA Code	Lab No.	Method No.	Results (pCi/L)	Date Analyzed	Analyst	Date Reported
<input checked="" type="checkbox"/>	Gross Alpha	4000	303	EPA 900.0	<2.0	8/5/14	MS	8/6/14
<input checked="" type="checkbox"/>	Gross Beta	4100	303	I	<4.0	I	I	I
<input type="checkbox"/>	Radium-226	4020						
<input type="checkbox"/>	Radium-228	4030						
<input type="checkbox"/>	Total Uranium	4006						
<input type="checkbox"/>	Radon-222 (Bottle A)	4004						
<input type="checkbox"/>	Radon-222 (Bottle B)	4004						
<input type="checkbox"/>	Radon Field Blank A	4004						
<input type="checkbox"/>	Radon Field Blank B	4004						
<input type="checkbox"/>	Tritium							
<input type="checkbox"/>								

Date Received: 8/4/14

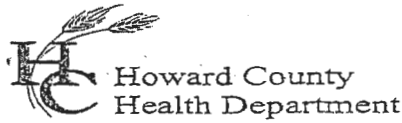
Received By: Melody Scott

Data Release Signature: Deborah Miller-Jones

Date: 8/8/14

Lab Use Only	Yes	No	N/A
Sample Intact upon arrival?			
Sample pH <2.0?	<input checked="" type="checkbox"/>		
Received within holding time?	<input checked="" type="checkbox"/>		

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



Invoice

Bureau of Environmental Health
Attn: Bert Nixon, Director

DATE: AUGUST 18, 2014
DATES OF SERVICE: JULY 29, 31, & AUG 1, 2014
INVOICE #: 2014-017

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

BILL To: MB Highland Reserve, LLC
1686 Gude Drive
Rockville, MD 20850

DATE	DESCRIPTION	BALANCE	AMOUNT
07/29/14	Gross alpha/beta testing performed for Reagan Property, Lot 19 HO - 14 - 0011		\$45.00
07/31/14	Gross alpha/beta testing performed for Reagan Property, Lots 20 and 21 HO - 14 - 0012 HO - 14 - 0013		\$90.00
08/01/14	Gross alpha/beta testing performed for Reagan Property, Lot 22 HO - 14 - 0014		\$45.00
			AMOUNT DUE
			\$180.00

Please detach and return with payment.

REMITTANCE	
Invoice #	2014-017
Site Information	Reagan Property Lots 19,20,21 and 22
Amount Due	\$180.00

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

SEND REPORT TO:

DEPARTMENT OF HEALTH AND MENTAL HYGIENE

Laboratories Administration

201 W. Preston St., Baltimore, MD 21201

Robert A. Myers, Ph.D., Director

Lab No.

86-238-44

RADIATION ANALYSIS REQUEST FORM

Plant/Site Name: _____

County: Howard

Sample Source: Radium Blank

Location: _____

(Well no., lab sink, sample tap, etc.)

Radon-222 Bottle A _____
Bottle B _____

Radon-222 Field Blank Bottle A Radium Blank
Bottle B _____

County

Plant No.

CHECK (one per Box)

Type	
Drinking Water	<input type="checkbox"/>
Landfill	<input type="checkbox"/>
Stream	<input type="checkbox"/>
Other	<input type="checkbox"/>

Service	
Community	<input type="checkbox"/>
Non-Community	<input type="checkbox"/>
Private	<input type="checkbox"/>
Other	<input type="checkbox"/>

Point of Collection	
Source (Raw)	<input type="checkbox"/>
Distribution (treated)	<input type="checkbox"/>
MCL	<input type="checkbox"/>

Testing	
Emergency	<input type="checkbox"/>
Routine	<input type="checkbox"/>
Recheck	<input type="checkbox"/>
Special	<input type="checkbox"/>

Submitters Code:

Federal Project:

Collector: B. Baker

Telephone No.: _____

Date Collected: 7/31/2014

Time Collected: _____ a.m. _____ p.m.

Field pH: _____

Field Chlorine: _____

Nitric Acid Preserved: Yes No

Iced: Yes No

Remarks: _____

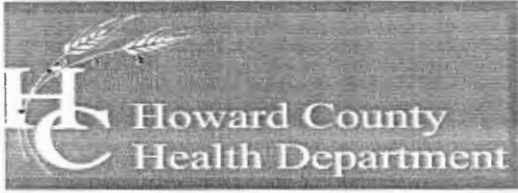
<input checked="" type="checkbox"/>	TEST	EPA Code	Lab No.	Method No.	Results (pCi/L)	Date Analyzed	Analyst	Date Reported
<input checked="" type="checkbox"/>	Gross Alpha	4000	303	EPA 900.0	<2.0	8/5/14	MS	8/6/14
<input checked="" type="checkbox"/>	Gross Beta	4100	303	I	<4.0	I	I	I
<input type="checkbox"/>	Radium-226	4020						
<input type="checkbox"/>	Radium-228	4030						
<input type="checkbox"/>	Total Uranium	4006						
<input type="checkbox"/>	Radon-222 (Bottle A)	4004						
<input type="checkbox"/>	Radon-222 (Bottle B)	4004						
<input type="checkbox"/>	Radon Field Blank A	4004						
<input type="checkbox"/>	Radon Field Blank B	4004						
<input type="checkbox"/>	Tritium							
<input type="checkbox"/>								

Date Received: 8/4/14 Received By: Melody Scott

Data Release Signature: Deborah Miller-Jones Date: 8/8/14

Lab Use Only	Yes	No	N/A
Sample Intact upon arrival?			
Sample pH <2.0?	<input checked="" type="checkbox"/>		
Received within holding time?	<input checked="" type="checkbox"/>		

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



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

Maura Rossman, M.D., Health Officer

October 9, 2014

**MB Highland Reserve, LLC
1686 Gude Drive
Rockville, Maryland 20850**

**RE: Regan Property Lot 21
Pleasant Springs Court
Well Tag: HO - 14 - 0013**

To Whom it May Concern:

A sample was collected during a yield test on July 31, 2014 and submitted to the Department of Health & Mental Hygiene Laboratories to assess the possible presence of **Gross Alpha** and **Gross Beta** in the future well water supply. **Gross Alpha** and **Gross Beta** measure the total alpha and beta particle activity in a water supply. 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 5.2 ± 1.7 picocuries/liter (pCi/L), while the **Gross Beta** level was 6.7 ± 2.0 pCi/L. The **Gross Alpha** result was below its **maximum contaminant level (MCL)** of 15 pCi/L, while the **Gross Beta** level was below its targeted 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 is **within** EPA regulatory standards. Additional testing for these parameters will not be required to secure the future Use & Occupancy. **Please note** that other standard testing parameters (bacteria, nitrate, turbidity and sand) will still be required 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.

Sincerely,

A handwritten signature in cursive script that reads 'Bert Nixon'.

Bert Nixon, Director

Bureau of Environmental Health

Enclosure
cc: Property file

Lab No. 0305 A-4 14

RADIATION ANALYSIS REQUEST FORM

Plant/Site Name: Regan Property - Lot 21 County: Howard
 Sample Source: Pleasant Springs Ct. Location: H0-14-0013
(Well no., lab sink, sample tap, etc.)
 Radon-222 Bottle A 14-0013 Radon-222 Field Blank Bottle A Radium Blank
 Bottle B _____ Bottle B _____

County 113 Plant No. _____

CHECK (one per Box)

Type	Service	Point of Collection	Testing
Drinking Water <input checked="" type="checkbox"/>	Community <input type="checkbox"/>	Source (Raw) <input checked="" type="checkbox"/>	Emergency <input type="checkbox"/>
Landfill <input type="checkbox"/>	Non-Community <input type="checkbox"/>	Distribution (treated) <input type="checkbox"/>	Routine <input checked="" type="checkbox"/>
Stream <input type="checkbox"/>	Private <input checked="" type="checkbox"/>	MCL <input type="checkbox"/>	Recheck <input type="checkbox"/>
Other <input type="checkbox"/>	Other <input type="checkbox"/>		Special <input type="checkbox"/>

Submitters Code: _____ Federal Project: _____
 Collector: Brian Telephone No.: (410) 313-2643
 Date Collected: 7/31/2014 Time Collected: 11:00 a.m. _____ p.m.
 Field pH: _____ Field Chlorine: _____
 Nitric Acid Preserved: Yes No Iced: Yes No

Remarks: Sample Collected During Yield Test

TEST	EPA Code	Lab No.	Method No.	Results (pCi/L)	Date Analyzed	Analyst	Date Reported
<input checked="" type="checkbox"/> Gross Alpha	4000	<u>305</u>	<u>EPA 900.0</u>	<u>5.2 ± 1.7</u>	<u>8/5/14</u>	<u>MS</u>	<u>8/6/14</u>
<input checked="" type="checkbox"/> Gross Beta	4100	<u>305</u>	<u>J</u>	<u>6.7 ± 2.0</u>	<u>J</u>	<u>J</u>	<u>J</u>
<input type="checkbox"/> Radium-226	4020						
<input type="checkbox"/> Radium-228	4030						
<input type="checkbox"/> Total Uranium	4006						
<input type="checkbox"/> Radon-222 (Bottle A)	4004						
<input type="checkbox"/> Radon-222 (Bottle B)	4004						
<input type="checkbox"/> Radon Field Blank A	4004						
<input type="checkbox"/> Radon Field Blank B	4004						
<input type="checkbox"/> Tritium							

Date Received: 8/4/14 Received By: Melody Smith
 Data Release Signature: Deborah Miller - JMK Date: 8/8/14

Lab Use Only	Yes	No	N/A
Sample Intact upon arrival?	<input checked="" type="checkbox"/>		
Sample pH < 2.0?	<input checked="" type="checkbox"/>		
Received within holding time?	<input checked="" type="checkbox"/>		

SEND REPORT TO:

DEPARTMENT OF HEALTH AND MENTAL HYGIENE

Laboratories Administration
201 W. Preston St., Baltimore, MD 21201
Robert A. Myers, Ph.D., Director

Lab No.

0303-42

RADIATION ANALYSIS REQUEST FORM

Plant/Site Name: _____

County: Howard

Sample Source: Radium Blank

Location: _____

(Well no., lab sink, sample tap, etc.)

Radon-222 Bottle A _____

Radon-222 Field Blank

Bottle A Radium Blank

Bottle B _____

Bottle B _____

County

Plant No.

CHECK (one per Box)

Type	
Drinking Water	<input type="checkbox"/>
Landfill	<input type="checkbox"/>
Stream	<input type="checkbox"/>
Other	<input type="checkbox"/>

Service	
Community	<input type="checkbox"/>
Non-Community	<input type="checkbox"/>
Private	<input type="checkbox"/>
Other	<input type="checkbox"/>

Point of Collection	
Source (Raw)	<input type="checkbox"/>
Distribution (treated)	<input type="checkbox"/>
MCL	<input type="checkbox"/>

Testing	
Emergency	<input type="checkbox"/>
Routine	<input type="checkbox"/>
Recheck	<input type="checkbox"/>
Special	<input type="checkbox"/>

Submitters Code:

Federal Project:

Collector: B. Baker

Telephone No.: _____

Date Collected: 7/31/2014

Time Collected: _____ a.m. _____ p.m.

Field pH: _____

Field Chlorine: _____

Nitric Acid Preserved: Yes No

Iced: Yes No

Remarks: _____

TEST	EPA Code	Lab No.	Method No.	Results (pCi/L)	Date Analyzed	Analyst	Date Reported
<input checked="" type="checkbox"/> Gross Alpha	4000	303	EPA 900.0	<2.0	8/5/14	MS	8/6/14
<input checked="" type="checkbox"/> Gross Beta	4100	303	I	<4.0	I	I	I
<input type="checkbox"/> Radium-226	4020						
<input type="checkbox"/> Radium-228	4030						
<input type="checkbox"/> Total Uranium	4006						
<input type="checkbox"/> Radon-222 (Bottle A)	4004						
<input type="checkbox"/> Radon-222 (Bottle B)	4004						
<input type="checkbox"/> Radon Field Blank A	4004						
<input type="checkbox"/> Radon Field Blank B	4004						
<input type="checkbox"/> Tritium							
<input type="checkbox"/>							

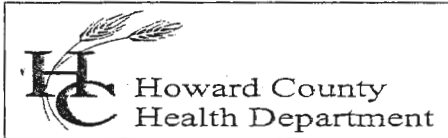
Date Received: 8/4/14 Received By: Melody Scott

Data Release Signature: Richard Miller - JMR Date: 8/8/14

Lab Use Only	Yes	No	N/A
Sample Intact upon arrival?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample pH <2.0?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Received within holding time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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

Invoice



Bureau of Environmental Health
 Attn: Bert Nixon, Director

DATE: AUGUST 18, 2014
 DATES OF SERVICE: JULY 29, 31, & AUG 1, 2014
 INVOICE #: 2014-017

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

BILL To: MB Highland Reserve, LLC
 1686 Gude Drive
 Rockville, MD 20850

DATE	DESCRIPTION	BALANCE	AMOUNT
07/29/14	Gross alpha/beta testing performed for Reagan Property, Lot 19 HO - 14 - 0011		\$45.00
07/31/14	Gross alpha/beta testing performed for Reagan Property, Lots 20 and 21 HO - 14 - 0012 HO - 14 - 0013		\$90.00
08/01/14	Gross alpha/beta testing performed for Reagan Property, Lot 22 HO - 14 - 0014		\$45.00
			AMOUNT DUE
			\$180.00

Please detach and return with payment.

REMITTANCE	
Invoice #	2014-017
Site Information	Reagan Property Lots 19,20,21and 22
Amount Due	\$180.00

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