

C1 8770

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND WELL COMPLETION REPORT FILL IN THIS FORM COMPLETELY PLEASE TYPE

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

COUNTY NUMBER 13 A517422

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

ST/CO-USE ONLY DATE RECEIVED MM DD YY

DATE WELL COMPLETED MM DD YY 02 05 07

Depth of Well 22 260 26 (TO NEAREST FOOT)

PERMIT NO. FROM "PERMIT TO DRILL WELL" H0-95-0598

OWNER DeFrancis STREET OR RFD Breakness Circle Lane TOWN Clarksville SUBDIVISION Walnut Grove SECTION LOT 53

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 include Top Soil, Clay, MICKA, Sandy, MICKA, Sand Stone, MICKA.

GROUTING RECORD

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

CASING RECORD

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

OTHER CASING (if used)

Table for other casing with columns for diameter and depth

SCREEN RECORD

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

Table for screen depth with columns for depth (nearest ft.) 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

TELESCOPE CASING LOG INDICATOR OTHER DATA

C 3

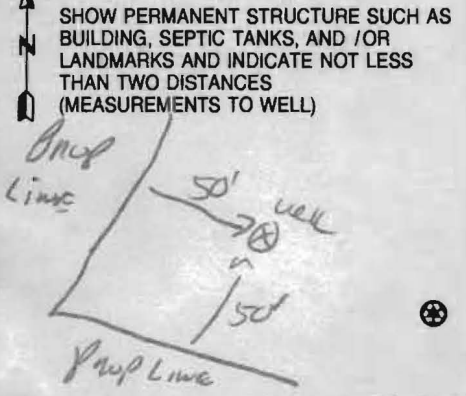
PUMPING TEST

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 13 WHEN PUMPING 42 TYPE OF PUMP USED (for test) S submersible

PUMP INSTALLED

DRILLER INSTALLED PUMP (CIRCLE) (YES or NO) IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS. TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O) IN BOX 29. CAPACITY: GALLONS PER MINUTE (to nearest gallon) 31 35 PUMP HORSE POWER 37 41 PUMP COLUMN LENGTH (nearest ft.) 43 47 CASING HEIGHT (circle appropriate box and enter casing height) LAND SURFACE (nearest foot) 2

LOCATION OF WELL ON LOT



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

CIRCLE APPROPRIATE LETTER A WELL WAS ABANDONED AND SEALED WHEN THIS WELL WAS COMPLETED E ELECTRIC LOG OBTAINED P TEST WELL CONVERTED TO PRODUCTION WELL

I HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN ACCORDANCE WITH COMAR 26.04.04 "WELL CONSTRUCTION" AND IN CONFORMANCE WITH ALL CONDITIONS STATED IN THE ABOVE CAPTIONED PERMIT, AND THAT THE INFORMATION PRESENTED HEREIN IS ACCURATE AND COMPLETE TO THE BEST OF MY KNOWLEDGE.

DRILLERS LIC. NO. M S D 113 DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION) LIC. NO. D

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

Date Received (APA) _____
OWNER INFORMATION
 8 MM DD YY 13
 Landmarketing Consultants
 15 Last Name Owner First Name 34
 3060 RT 97
 36 Street or RFD 55
 Glenwood MD 21771
 57 Town 70 State 72 Zip 76

B 3 **LOCATION OF WELL**
 8 COUNTY **Howard** 21
 23 SUBDIVISION **Walnut Grove** 42
 SECTION 44 46 LOT 53 48 50
CLARKSVILLE
 52 NEAREST TOWN 71
 MILES FROM TOWN (enter 0 if in town) **2** M I
 73 76 77 78

DRILLER INFORMATION
 Driller's Name **Ralph E. Mayne M S D 117**
 76 License No. 81
 Firm Name **Ralph E. Mayne INC**
 Address **17024 Hardy Rd. Mt. Airy, MD 21771**
 Signature **[Signature]** Date **11-11-06**

B 4 **DIRECTION OF WELL FROM TOWN (CIRCLE BOX)**
 1 2

Breakneck Circle
 11 NEAR WHAT ROAD 30
 ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)
 34 **240** 37
 DISTANCE FROM ROAD ENTER FT OR MI 38 39
 TAX MAP: **28** BLK: **18** PARCEL **74**

B 2 **WELL INFORMATION**
 1 2 APPROX. PUMPING RATE **5**
 (GAL. PER MIN.) 8 500 12
 AVERAGE DAILY QUANTITY NEEDED
 (GAL. PER DAY) 14 _____ 20

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

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL
Howard (13) A517422
 COUNTY NAME COUNTY NO.
 STATE SIGNATURE _____ INSERT S → 41
 DATE ISSUED **12/19/06** **Brian Baker** 12/19/2007
 43 MM DD YY 48 CO SIGNATURE EXP. DATE
 NORTH GRID **508** 0 0 0 EAST GRID **816** 0 0 0
 50 55 57 63

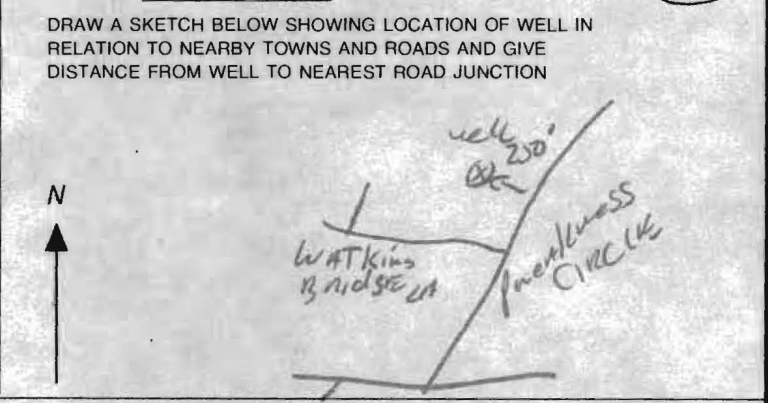
APPROXIMATE DEPTH OF WELL **150** FEET
 24 28
 APPROXIMATE DIAMETER OF WELL **6"** NEAREST INCH

SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X
 SOURCES OF DRILLING WATER
 1. **well**
 2.
 3.
 WRITE THE BOX NUMBER FROM THE MAP HERE
 E **815**
 N **508**
 Radium sample taken on 3/10/07 @ field tests [Signature]

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 DEEPEINED WELLS (CIRCLE APPROPRIATE BOX)
 THIS WELL WILL NOT REPLACE AN EXISTING WELL
 THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED
 39 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 DEEPEIN AN EXISTING WELL
 PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEINED (IF AVAILABLE) 41 _____ 52

Not to be filled in by driller (MDE OR COUNTY USE ONLY)
 APPROX. PERMIT NUMBER **HO2005G006**
 PERMIT No. **HO-95-0598**
 70 71 72 73 74 75 76 77 78 79



SPECIAL CONDITIONS **Health Dept. Needs to Collect Radium Sample**

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: Robert L Feezer Co. Inc Telephone #: 410-781-4655
Address: 6321 BARNETT AVE.
SYKESVILLE, MD 21784

(Must circle one) Licensed Plumber Licensed Well Driller Licensed Well Pump Installer
License # and name of individual responsible for the field installation:
Name (Print): Robert L. Feezer License# 2122
*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: NV HOMES Telephone #: 410-379-5956
Subdivision: Walnut Grove Lot #: 53 Well Tag #: HO 95-0598
Site Address: 1336 PEARLASSO CIRCLE LN
CLARKSVILLE, MD 21029

Submersible Pump Data Pitless Adapter Well Cap and Electric Conduit
Make: STA-RT Make: Campbell Two piece watertight cap:
Model #: S10P4NS07221-01 Model#: PT 800 Screened, vented well cap:
Pump Capacity: 10 GPM Depth: 42" (36" min) Cap secured to casing:
Well Yield: 1.5 GPM NSF/WSC approved: Conduit min 18" B.G.:
Depth of well encountered at time of pump installation: 260 (feet) Conduit secured to well cap:
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 method used- Must circle one
Safety rope, if used, attached to brass rope adapter or other acceptable method inside of well casing

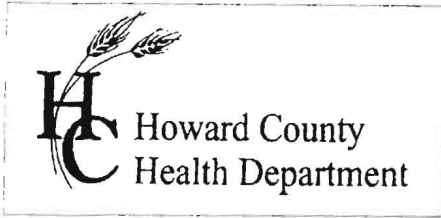
Piping to house House Connection
Type: Poly PVC sleeve to undisturbed soil at wall penetration:
PSI: 200 (160 psi min) Length of sleeve(5' minimum from foundation): 10'
Depth of supply line: 42" (36" min) Sleeve sealed properly:

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: Robert L Feezer date: 2/25/10
INSPECTION CALLED IN FOR 2/18/11

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

Date Insp. Requested: _____ Date Insp. Approved: 3-3-11 Inspector: MS
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



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

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

TO ALL INTERESTED PARTIES

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

Well Site Location:

<i>Walnut Grove</i>	<i>53</i>	<i>Preakness Circle</i>
Subdivision/Property Name	Lot #	Road Name

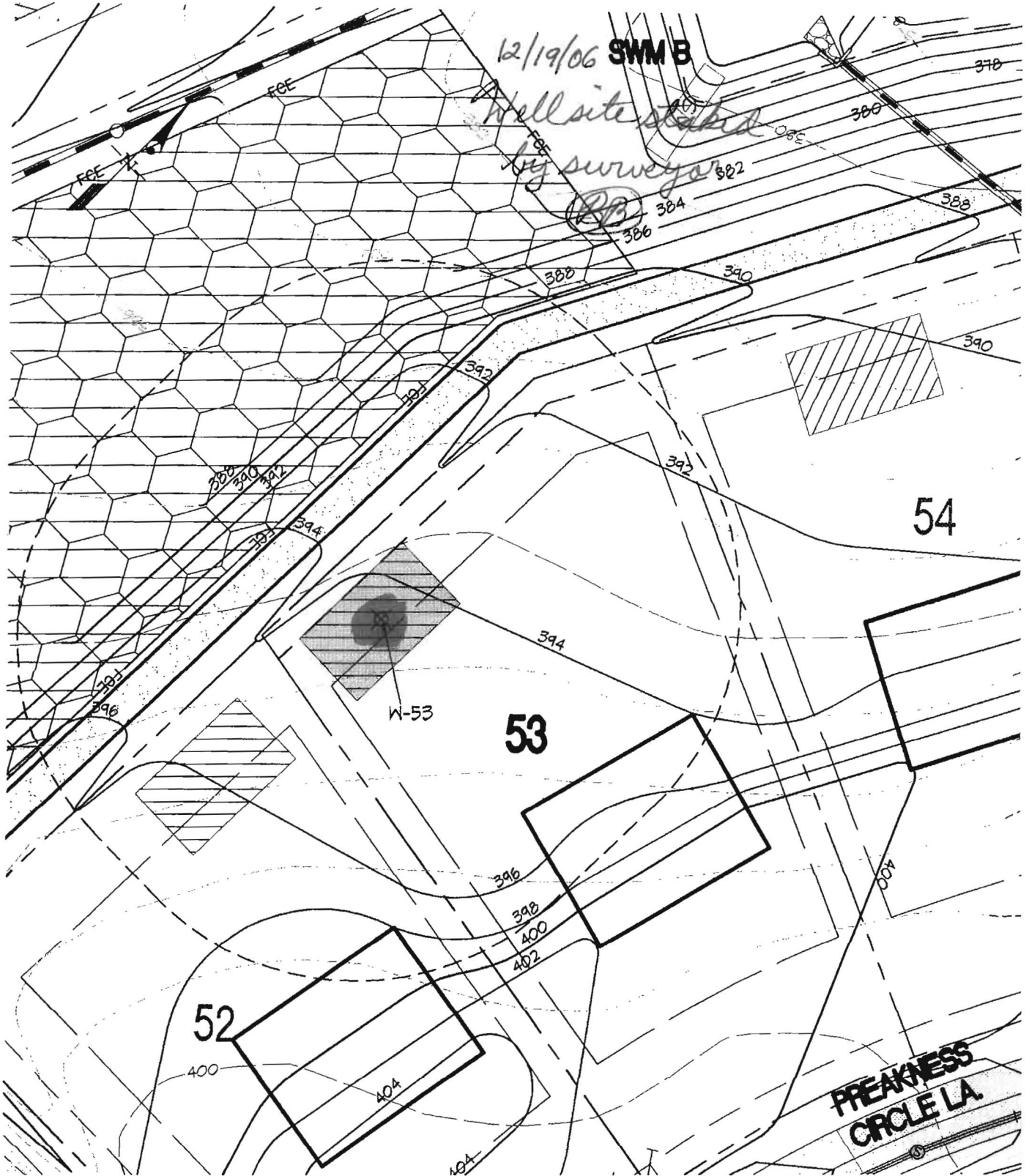
- Staking to take place after initial review (as discussed with Bob Weber).
- The well site has been staked by _____ ,
 (professional land surveyor or company employing professional land surveyors)
 on _____ (date) and does not require a site inspection.
- The well driller, builder or property owner will call the Health Department to schedule a time to meet in the field to verify the proposed well site location.

This sheet, along with two copies of an acceptable well site plan, must be attached to the green well permit application.

Revised 3/11/05

12/19/06 SWMB

Well site staked
by surveyor

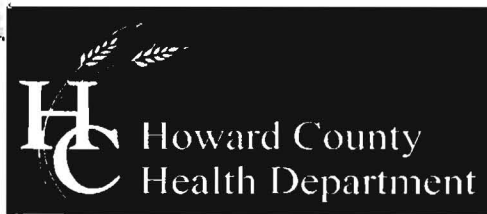


LEGEND	PROPOSED LPSS	WELL BOX	WELL SURVEY POINT
	PROPOSED STORM DRAIN	HOUSE BOX	W-05

WELL LOCATION EXHIBIT - LOT 53

WALNUT GROVE
 Lots 1 thru 88, Buildable Preservation Parcel "A",
 Non-Buildable Preservation Parcels "B" Thru "I" And
 and Non-Buildable Bulk Parcel "J"

GLW GUTSCHICK LITTLE & WEBER, P.A.
 CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS
 3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK
 BURTONSVILLE, MARYLAND 20866
 TEL: 301-421-4024 BALT: 410-880-1820 DC/VA: 301-989-2524 FAX: 301-421-4186



Bureau of Environmental Health
7178 Columbia Gateway Drive, Columbia, MD 21046-2147
(410) 313-2640 Fax (410) 313-2648
TDD (410) 313-2323 Toll Free 1-866-313-6300
website: www.hchealth.org

Peter L. Beilenson, M.D., M.P.H., Health Officer
December 19, 2007

Jeremy Rutter
Heritage Realty & Land Development
P.O. Box 482
Lisbon, Maryland 21765

RE: Radium & Uranium Results for:
Walnut Grove Lot 15, HO – 95 – 0572
Walnut Grove Lot 19, HO – 95 – 0575
Walnut Grove Lot 30, HO – 95 – 0584
Walnut Grove Lot 41, HO – 95 – 0594
Walnut Grove Lot 45, HO – 94 – 4187
Walnut Grove Lot 51, HO – 94 – 4181
✓ Walnut Grove Lot 53, HO – 95 – 0598
Walnut Grove Lot 63, HO – 94 – 4183
Walnut Grove Lot 87, HO – 95 – 0618

Dear Mr. Rutter:

You have requested that I review and comment upon sample results from the aforementioned lots at the Walnut Grove Sub Division, all taken on July 11, 2007 and sent to Trace Laboratories for analysis of Radium 226 / 228 and Uranium. My comments would be used to help confirm whether or not treatment to address these parameters, would be needed on any of these well water supplies.

Let me first state that no information was provided on how long the wells were purged prior to the sample being collected. From looking at the sample reports, wells were sampled at 10 – 15 minute intervals, suggesting little to no purging on some (or all) of these wells. Additionally, without the benefit of short and long term Gross Alpha & Beta components, the interpretation of some results is less clear. Because of this, I will “err” on the side of caution in my conclusions.

In general, my interpretation of these results is similar to those reached by Allison Milburn, Manager – Drinking Water Testing for Trace Laboratories. **Lots 19, 45, 53 and 87** are water supplies in which no additional treatment for these parameters would be anticipated. Alternatively, **Lots 15 (based upon Uranium), 51 and 63** are lots that additional treatment (i.e., softeners and/or reverse osmosis systems) will be needed. The remaining two lots (**30 and 41**), though not strictly reaching or exceeding the maximum contaminant level (MCL) of 5 picocuries/liter, are close enough that with variability (and a lack of additional information), will at this point be required to have treatment.

If you have questions or wish to discuss further, please contact me at (410) 313 – 1774.

Sincerely,

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

Bert Nixon, Director
Bureau of Environmental Health

CERTIFICATE OF ANALYSIS



Trace Laboratories, Inc.
Maryland

5 North Park Drive
Hunt Valley, MD 21030
Telephone: 410/252-7742
Telephone: 410/584-9099
Fax: 410/584-9117
Email: tracelab@connect.net
www.tracelabs.com

Maryland State Certified
Water Quality Laboratory
No. 318

ISO 9001:2000



Cert No. C2005-01504

Requester:
Heritage Realty & Land Development
Attn: Jeremy Rutter
P.O. Box 482
Lisbon, MD 21765

S/O Number: 64290-7
Report Date: July 31, 2007

Property Sampled: Walnut Grove Property

County: Howard
Subdivision: Walnut Grove
Lot #: 53
Tax Map #: N/A
Parcel #: N/A

Date/Time Collected: July 11, 2007 at 1:40 pm
Date/Time Received: July 11, 2007 at 3:40 pm

Sample Location: Pump
Sampler ID: 6308KW
Samples Iced: Yes
Residual Cl₂ <0.1 mg/L: Yes

Well Tag Number: HO-95-0598
Well Condition : N/A

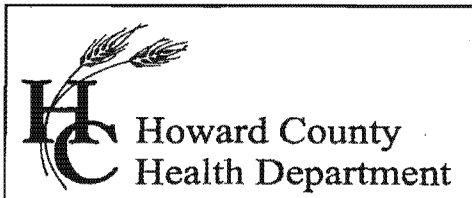
Water Conditioning/Treatment: None

PARAMETER	RESULT	METHOD	DETECTION LIMIT
Radium 226	2.7 +/- 0.5 pCi/L	EPA 903.1	0.2 pCi/L
Radium 228	0.9 +/- 0.6 pCi/L	EPA Ra-05	0.8 pCi/L
Uranium	7.9 +/- 1.8 pCi/L	EPA 908.0	0.8 pCi/L

Allison Milburn

Allison R. Milburn
Manager-Drinking Water Testing

Samples analyzed by Laboratory #E83033



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

Peter L. Beilenson, M.D., M.P.H., Health Officer

April 9, 2007

Walnut Grove, LLC
10705 Charter Drive
Suite 320
Columbia, Maryland 21044

RE: Walnut Grove Subdivision, Lot 53
Well Tag: HO - 95 - 0598

To Whom It May Concern:

A sample was collected during a yield test on March 15, 2007 and submitted to GPL Laboratories to assess the possible presence of **Gross Alpha** and **Gross Beta** in the future well water supply. **Gross Alpha** and **Gross Beta (GAGB)** 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 15.9 ± 2.1 picocuries/liter (pCi/L); while the **Gross Beta** level was 11.2 ± 1.4 pCi/L. The **Gross Alpha** result was above its **maximum contaminant level (MCL)** of 15 pCi/L, while the **Gross Beta** level was below its target value of 50 pCi/L (roughly equivalent to the annual dose rate of 4 millirem/year).

Since the **Gross Alpha** finding exceeded its MCL, additional testing for **Radium** will be necessary to verify existing levels prior to occupancy. Alternatively, you may install treatment designed to reduce **Gross Alpha, Gross Beta and Radium**, plus provide post treated results (short and long term **GAGB, plus Radium**) confirming that levels are in conformance with existing standards. **Additionally**, the owners will be required to sign an "AGREEMENT FOR APPROVAL OF AN INDIVIDUAL DRINKING WELL WITH AN ON-SITE TREATMENT SYSTEM" as part of the Use and Occupancy process. Moreover, keep in mind that the standard potability parameters required for occupancy will still be needed.

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 concerns.

Sincerely,

Bert Nixon, Deputy Director
Bureau of Environmental Health

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

Send Report To:

Beit Nixon

State of Maryland

DHMH - Laboratories Administration
Division of Environmental Chemistry

RADIATION LABORATORY

201 W. Preston Street, Baltimore, Maryland 21201

John M. DeBoy, Dr. P.H., Director

LABORATORY ANALYSIS REQUEST

Sample Bottle No. A: KW 53WA 0598 No. B: _____ Field Blank Bottle No. A: _____ No. B: _____

Plant/Site Name: Walnut Grove lot 53 County: Howard

Sample Source: Prokross Co. Ln. Location: HU-95-0598
(well no., lab sink, sample tap, etc.)

County: Plant No.

CHECK (one per box)

Drinking Water <input checked="" type="checkbox"/>	Community <input type="checkbox"/>	Source (raw water) <input checked="" type="checkbox"/>	Emergency <input type="checkbox"/>
Landfill <input type="checkbox"/>	Non-community <input type="checkbox"/>	Distribution (treated) <input type="checkbox"/>	Routine <input 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"/>

Collector: K. Wolff Telephone No: 410-313-2645

Date Collected: 3/1/07 Time Collected: 10:15 a.m. _____ p.m.

Nitric Acid Preserved: Yes No Iced: Yes No

Submitters Code: Federal Project: Field Data: _____

Remarks: Sample collected during yield test pH _____ Chlorine _____

✓	Test	EPA Code	Laboratory No.	Results (pCi/L)	Date Reported
✓	Gross Alpha	4000	<u>703105-003</u>	<u>15.9 ± 2.1</u>	<u>3/20/07</u>
✓	Gross Beta	4100		<u>11.2 ± 1.4</u>	
	Radon-222 Bottle A	4004			
	Radon-222 Bottle B	4004			
	Field Blank A	4004			
	Field Blank B	4004			
	Tritium				
	Ra - 226	4020			
	Ra - 228	4030			
	Total Uranium	4006			

Date Received: _____ / _____ / _____

Supervisor: _____

CERTIFICATE OF ANALYSIS



Trace Laboratories, Inc.
Maryland

5 North Park Drive
Hunt Valley, MD 21030
Telephone: 410/252-7742
Telephone: 410/584-9099
Fax: 410/584-9117
Email: tracelab@connext.net
www.tracelabs.com

Maryland State Certified
Water Quality Laboratory
No. 318

ISO 9001:2000



Cert No. C2005-01504

Requester:
Heritage Realty & Land Development
Attn: Jeremy Rutter
P.O. Box 482
Lisbon, MD 21765

S/O Number: 64290-7
Report Date: July 31, 2007

Property Sampled: Walnut Grove Property

County: Howard
Subdivision: Walnut Grove
Lot #: 53
Tax Map #: N/A
Parcel #: N/A

Date/Time Collected: July 11, 2007 at 1:40 pm
Date/Time Received: July 11, 2007 at 3:40 pm

Sample Location: Pump
Sampler ID: 6308KW
Samples Iced: Yes
Residual Cl₂ <0.1 mg/L: Yes

Well Tag Number: HO-95-0598
Well Condition: N/A

Water Conditioning/Treatment: None

PARAMETER	RESULT	METHOD	DETECTION LIMIT
Radium 226	2.7 +/- 0.5 pCi/L	EPA 903.1	0.2 pCi/L
Radium 228	0.9 +/- 0.6 pCi/L	EPA Ra-05	0.8 pCi/L
Uranium	7.9 +/- 1.8 pCi/L	EPA 908.0	0.8 pCi/L

Allison R. Milburn
Manager-Drinking Water Testing



TRACE LABORATORIES, INC
 5 North Park Drive
 Hunt Valley, MD 21030 USA
 Telephone: 410/584-9099 / Fax: 410/584-9117
 Website: www.tracelabs.com / Email: info@tracelabs.com

Maryland State Certified Laboratory #318

CERTIFICATE OF ANALYSIS

Requester:

S/O Number: 80677

NV Homes, Inc.
 6085 Marshalee Drive Suite 130
 Elkridge, Maryland 21075

Report Date: March 15, 2011

Property Sampled: 12336 Preakness Circle Lane, 21029
Sample Location: Pressure Tank
Residual Chlorine: <0.1 mg/L

Building Permit #: B10003465
Sampler ID #: 9813AM
Samples Iced: Yes

County: Howard
Map: 28

Subdivision: Walnut Grove
Parcel: 74

Lot #: 53

Date/Time Collected in Field: March 14, 2011 @ 11:45 am

Date/Time Received in Lab: March 14, 2011 @ 3:15 pm

Well Tag #: HO-95-0598

Well Condition: 2-Piece Cap, Satisfactory Condition

Water Treatment/Conditioning: Neutralizer (Unplugged)

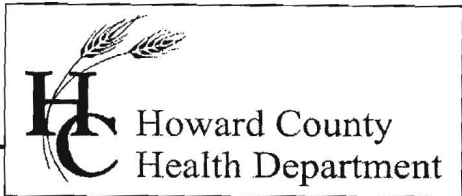
PARAMETER	METHOD	MCL/*SMCL	RESULT	PASS/FAIL
Total Coliform	SM 9223B	Absent	Absent	Pass
<i>E. coli</i>	SM 9223B	Absent	Absent	Pass
Nitrate	SM 4500D	10 mg/L as N	<1.0 mg/L as N	Pass
Turbidity	EPA 180.1	10 NTU	<1.0 NTU	Pass
pH	EPA 150.1	*6.5-8.5 Units	7.5 Units	***Acceptable
Sand		Negative	Negative	

Katherine C. Higgs
 Katherine C. Higgs
 Administrative Assistant

MCL: Maximum Contamination Level, an enforceable level established by the EPA

*SMCL: Secondary Maximum Contamination Level, a level recommended by the EPA

***A non-enforceable parameter that may cause cosmetic effects or aesthetic effects (such as taste, color or odor) in drinking water.



Howard County
Health Department

Bureau of Environmental Health
7178 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

Peter Beilenson, M.D., M.P.H., Health Officer

March 23, 2011
Homeowner
12336 Preakness Circle Lane
Clarksville, MD 21029

RE: Walnut Grove, Lot 53
12336 Preakness Circle Lane
BP #: B10003465
Well Tag: HO-95-0598

Dear Homeowner:

This is to advise you that the septic system for the above referenced property has been installed and inspected. **Final approval of the septic system was granted on 03/14/2011. Final approval of the well line connection to the dwelling was approved on 03/03/2011.**

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. The water sample results were found to be in compliance with COMAR water quality standards.

Gross Alpha and Beta samples were also collected on 03/15/2007. Results showed a Gross Alpha level of **15.9+- 2.1 pCi/L** and **Gross Beta** level of **11.2 +- 1.4 pCi/L**. Future well water supply appears safe for all uses. No additional testing is required. ***See memo dated 12/19/2007 for further information.**

Enclosed with this certificate, is a copy of the septic permit and the as-built along with important information regarding the use and maintenance of your septic system. Please read through carefully and thoroughly. Any questions regarding your well and/or septic, please call this office for guidance 410-313-1771.

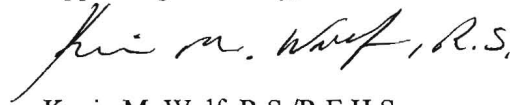
INTERIM CERTIFICATE OF POTABILITY

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-95-0598. Although the submitted sample results are in compliance with COMAR standards, the Health Department does not guarantee water supplies. Based upon satisfactory investigation and evaluation, the Howard County Health Department as authorized by the Maryland Department of the Environment accepts this well system as required by COMAR 26.04.04.

This certificate may become final upon completion of the second bacteriological test, which is to be taken by the county health department within six months of receipt of this letter. **Please contact (410) 313-1773 to schedule a final water sample appointment. Currently, there is no charge for this final sampling.**

Date of Water Samples: 03/14/2011
Date of Radium Samples: 03/15/2007
Date of Well Completion: 02/15/2007

Approving Authority,



Kevin M. Wolf, R.S./R.E.H.S.
Environmental Sanitarian
Well & Septic Program

cc: Building Inspector's Office
Community Hygiene Program
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
RADIATION LABORATORY
201 W. Preston Street, Baltimore, Maryland 21201
John M. DeBoy, Dr. P. H., Director

10.
FRS, Inc.

POST (After *
H₂O separator)

LABORATORY ANALYSIS REQUEST

LOW G & RADIUM

Sample Bottle No. A: HC12336L No. B: _____ Field Blank Bottle No. 1: _____ No B: _____

Plant/Site Name: Young Hill County: Howard

Sample Source: 12336 Preckness Circle Location: _____
(well no, lab sink, sample tap, etc.)

County: 1 3 Plant No.

CHECK (one per box)

Drinking Water
Landfill
Stream
Other

Community
Non-community
Private
Other

Source (raw water)
Distribution (treated)
MCL

Emergency
Routine
Recheck
Special

Collector: BLESIAV SAKIYAR

Telephone No.: 410-313-1787

Date Collected: 1/1

Time Collected: 11:00 a.m. _____ p.m.

Nitric Acid Preserved: Yes No

Iced: Yes No

Submitters Code:

Federal Project: 5

Field Data: 7.4 0.0
pH Chlorine

Remarks: Sample for ACH from 1-st floor powder room

✓	Test	EPA Code	Laboratory No.	Results (pCi/L)	Date Analyzed	Date Reported
✓	Gross Alpha	4000	1107191-02	16.8	8/4/11	8/5/11
✓	Gross Beta	4100	1107191-02	4.1	8/4/11	8/5/11
	Radon-222 Bottle A	4004				
	Radon-222 Bottle B	4004				
	Field Blank #A	4004				
	Field Blank #B	4004				
	Tritium					
✓	Ra - 226	4020	1107191-02	0.1	8/4/11	8/5/11
✓	Ra - 228	4030	1107191-02	<0.8	8/4/11	8/5/11
	Total Uranium	4006				

Date Received: 1/1

Supervisor: _____

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

Wolf, Kevin

From: Wolf, Kevin
Sent: Friday, September 16, 2011 12:36 PM
To: 'Faris, Taylor'
Cc: Martin, Sharhonda
Subject: RE: Water treatment

Taylor, the sample was taken inside the house at the powder room tap. This is a preferred location other than sampling directly from the pressure tank tap. The samples were post treated (after softener) and showed a long term gross alpha a little elevated (16.8 pCi/L which the mcl is 15pCi/L). FYI pCi/L is the unit of measure for radiation sampling in dissolved water. The radium 226/228 and long term gross beta post treated were all below the targeted maximum containment values. You should have the homeowner sample again for gross alpha and gross beta short term and long term before treatment and gross alpha gross beta long term after treatment. This will rule out if the water softener needs to be maintained or looked at by the company who installed it. Let me know if you have any more questions.

Thanks,

Kevin M. Wolf, R.S., R.E.H.S.
Howard County Health Department
Bureau of Environmental Health
Well & Septic Program
Groundwater Mgmt. Sec.
7178 Columbia Gateway Dr.
Columbia, MD 21046

(o) 410-313-2645
(f) 410-313-2648

From: Faris, Taylor [mailto:tfaris@nvrinc.com]
Sent: Thursday, September 15, 2011 10:26 PM
To: Wolf, Kevin
Cc: Martin, Sharhonda
Subject: RE: Water treatment

Kevin,

I appreciate you getting back to me. I'm sorry it took me awhile to respond. There is also a softener installed in the home. I was wondering if you knew where the sample the homeowner is referencing was pulled from. Is it possible if the sample was taken from an exterior hose bib that it could be elevated due to outside contaminant? We were planning on pulling an additional sample from inside the home to see if we get a passing level.

Thanks
Taylor Faris
NV Homes
443-864-3479

From: Wolf, Kevin [mailto:KWolf@howardcountymd.gov]
Sent: Wednesday, September 14, 2011 9:24 AM
To: Faris, Taylor
Cc: Martin, Sharhonda
Subject: RE: Water treatment

Taylor,

In review of the current laboratory analysis report for the long term gross alpha beta and rad 226/228, the alpha is still elevated slightly. The beta is below the maximum containment level (mcl). The radium 226/228 were below the mcl as well.

I have one question, from our initial potability testing taken on march 14, 2011 it states a neutralizer was installed. Is this still the only treatment or is there other conditioning units (i.e. water softener, r/o, etc..)?

Thanks,

Kevin M. Wolf, R.S., R.E.H.S.
Howard County Health Department
Bureau of Environmental Health
Well & Septic Program
Groundwater Mgmt. Sec.
7178 Columbia Gateway Dr.
Columbia, MD 21046

(o) 410-313-2645

(f) 410-313-2648

From: Martin, Sharhonda
Sent: Wednesday, September 14, 2011 9:12 AM
To: Wolf, Kevin
Subject: FW: Water treatment

Kevin can you please render a response for Taylor? Thanks

From: Faris, Taylor [mailto:tfaris@nvrinc.com]
Sent: Tuesday, September 13, 2011 4:22 PM
To: Martin, Sharhonda
Subject: FW: Water treatment

Sharhonda,

I was hoping you could take a look at these attachments and let me know what you think. I'm curious if this homeowner has a legitimate concern/argument.

Thanks a lot,
Taylor Faris
NV Homes
443 864 3479

From: Yong Hu [mailto:yhuxl@yahoo.com]
Sent: Wednesday, September 07, 2011 6:26 PM
To: Faris, Taylor
Subject: Water treatment

Hi Taylor,

After the water softener was installed at our home, the county did a post-treatment water test for the effectiveness of the treatment in reducing the radioactive materials in our water. The results are

attached in this email. As you can see, although the water softener reduces the radium (Ra-226 and Ra-228) to acceptable levels, the treated water is still high in Gross Alpha (16.8 pCi/L), higher than the EPA standard 15 pCi/L. Please refer to the Table 1 in the attached Howard County Homeowner's Guide for the EPA standard for Gross Alpha and treatment option. Reverse Osmosis is recommended when Gross Alpha is higher than 15 pCi/L.

I would request NV Homes to install a reverse osmosis treatment unit at our home so that our well water is safe to consume. I hate to bother you, but since this is a follow up to the original water quality issue, I would greatly appreciate your continued attention and help in this matter. Thanks.

Regards,
Yong

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