

C1 1172

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND WELL COMPLETION REPORT

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

1 2 3 4 5 6 (THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)

COUNTY NUMBER A 516063

ST/CO USE ONLY DATE RECEIVED

DATE WELL COMPLETED MM DD YY 2 15 26

Depth of Well 22 300' 26 (TO NEAREST FOOT)

OK SO HIL/ab

PERMIT NO. FROM "PERMIT TO DRILL WELL" Ho - 95-0226

OWNER Horton R. O. STREET OR RFD Heather Glen Way TOWN clarksville md SUBDIVISION Turnbury Grove SECTION LOT 84

WELL LOG table with columns: DESCRIPTION, FEET (FROM, TO), check if water bearing. Includes entries for Sand and Gray Granite Rock.

GROUTING RECORD: WELL HAS BEEN GROUTED (Y), TYPE OF GROUTING MATERIAL (CM, BC), NO. OF BAGS (9), NO. OF POUNDS (846), GALLONS OF WATER (54), DEPTH OF GROUT SEAL (40 ft).

CASING RECORD: casing types insert appropriate code below (ST, CO, PL, OT), MAIN CASING TYPE (ST), Nominal diameter (6 inch), Total depth of main casing (49 feet).

OTHER CASING (if used) diameter inch, depth (feet) from to

SCREEN RECORD: screen type or open hole (ST, BR, HO, PL, OT), DEPTH (nearest ft.) 47

NUMBER OF UNSUCCESSFUL WELLS: 0

WELL HYDROFRACTURED (Y)

CIRCLE APPROPRIATE LETTER: A (well abandoned), E (electric log), P (test well converted to production)

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...

DRILLERS LIC. NO. 1 M SDQ 24 1

DRILLERS SIGNATURE (Must match signature on application) LIC. NO. 1 D 1

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

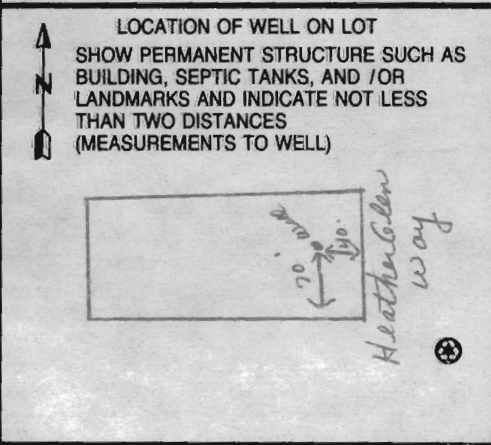
DEPTH (nearest ft.) table with columns 1-11 and 15-21. Includes slot size and diameter of screen.

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 70 72 74 75 76 TELESCOPE CASING LOG INDICATOR OTHER DATA

PUMPING TEST: HOURS PUMPED (3), PUMPING RATE (12 gal. per min.), METHOD USED TO MEASURE PUMPING RATE (Bucket), WATER LEVEL (28 ft. before, 20 ft. when pumping), TYPE OF PUMP USED (S - submersible)

PUMP INSTALLED: DRILLER INSTALLED PUMP (YES), 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 (31), PUMP HORSE POWER (37), PUMP COLUMN LENGTH (43), CASING HEIGHT (+18 above, -49 below) LAND SURFACE (2 nearest foot)



B 1 1456  
1 2 3 6

SEQUENCE NO.  
(MDE USE ONLY)

STATE OF MARYLAND  
APPLICATION FOR PERMIT TO DRILL WELL

STATE PERMIT NUMBER

HD-95-0226  
fill in this form completely

523944 please type

Date Received (APA)  
01 20 06  
8 MM DD YY 13

OWNER INFORMATION

Horton R. D.  
15 Last Name Owner First Name 34  
1370 Piccard Drive  
36 Street or RFD 55  
Rockville Md. 20850  
57 Town 70 State 72 Zip 76

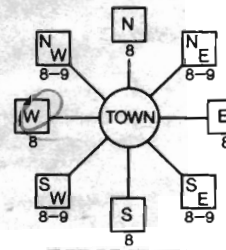
B 3 LOCATION OF WELL

Howard  
8 COUNTY 21  
Turnbury Grove  
23 SUBDIVISION 42  
SECTION 44 46 LOT X4 48 50  
Clarksville  
52 NEAREST TOWN 71  
MILES FROM TOWN (enter 0 if in town) 1/2 M I  
73 76 77 78

DRILLER INFORMATION

Joseph L. Mayne M 5 D 024  
76 Driller's Name 81 License No.  
Joseph L. Mayne Well Drilling  
5512 Ridge Rd Mt. Airy Md 20771  
Address  
Joseph L. Mayne 1-6-06  
Signature Date

B 4 DIRECTION OF WELL FROM TOWN (CIRCLE BOX)



Heather Glen Way  
11 NEAR WHAT ROAD 30  
ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)  
NORTH N  
WEST W EAST E  
SOUTH S  
34 25 37  
DISTANCE FROM ROAD  
ENTER FT OR MI 38 ET 39  
TAX MAP: 34 BLK: 11 PARCEL 77

B 2 WELL INFORMATION

APPROX. PUMPING RATE  
(GAL. PER MIN.) 5 8 12  
AVERAGE DAILY QUANTITY NEEDED  
(GAL. PER DAY) 500 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
- GEO-THERMAL

NOT TO BE FILLED IN BY DRILLER  
HEALTH DEPARTMENT APPROVAL

Howard AS16063  
COUNTY NAME COUNTY NO.  
STATE SIGNATURE INSERT S → 41  
DATE ISSUED 2/7/06 2/7/07  
43 MM DD YY 48 CO. SIGNATURE EXP. DATE  
NORTH GRID 4990 00 EAST GRID 814 000  
50 55 57 63

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

SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X

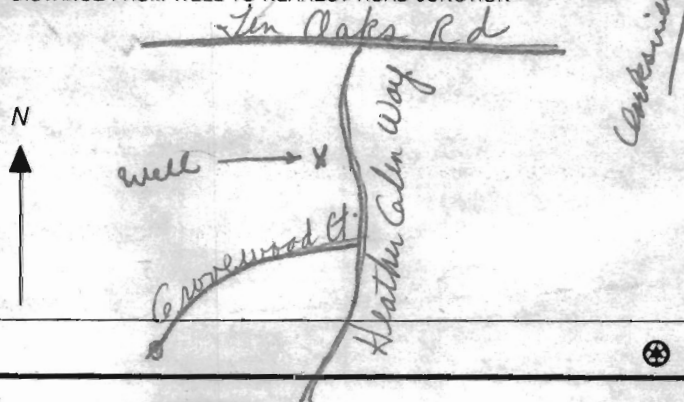
SOURCES OF DRILLING WATER  
1. well  
2.  
3.

2/15/06  
Radioactive and VOC  
test samples taken  
\*Yield O.K.  
BB

WRITE THE BOX NUMBER FROM THE MAP HERE

E 814  
N 499

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



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
- 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)

APPROP. PERMIT NUMBER HD 2006G 003  
PERMIT No. HD-95-0226  
70 71 72 73 74 75 76 77 78 79

SPECIAL CONDITIONS

NOTE - APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED

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: Tei-County Pump Service, Inc. Telephone #: 301-432-0330
Address: 6711 Old National Pike
Burshee, MD, 21713

(Must circle one) Licensed Plumber Licensed Well Driller Licensed Well Pump Installer
License # and name of individual responsible for the field installation:
Name (Print): William Gifford License# 20135

\*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: Bayout Group, Inc. Telephone #: 301-257-1323
Subdivision: Preserve at Clarksville Lot #: 4 Well Tag #: HO-95-0226
Site Address: 6218 Heather Glen Way
Clarksville, MD 21029

Submersible Pump Data Pitless Adapter Well Cap and Electric Conduit
Make: A.Y. Howell's Make: American Glauky Two piece watertight cap: YES
Model #: 23100V25H Model#: P1800 Screened, vented well cap: YES
Pump Capacity 7 GPM Depth: 36' (36" min) Cap secured to casing: YES
Well Yield: 10 GPM NSF/WSC approved: YES Conduit min 18" B.G.: YES
Depth of well encountered at time of pump installation: 490 (feet) Conduit secured to well cap: YES
If pump capacity exceeds well yield, a low water cut off switch is required by NSPC 1990 Section 17.8.4
Torque arrestors, Cable guards, or other acceptable 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: YES
PSI: 200 (160 psi min) Length of sleeve (5' minimum from foundation): 20ft
Depth of supply line: 36" (36" min) Sleeve sealed properly: YES

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

Signature of company representative responsible for installation: William Gifford date: 2/7/2013

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

Date Insp. Requested: Date Insp. Approved: 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

**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: \_\_\_\_\_ 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: Dresner @ Clarksville Lot #: 4 Well Tag #: HO-95-022-6  
Site Address: 6218 Heather Colee Way

<b><u>Submersible Pump Data</u></b>	<b><u>Pitless Adapter</u></b>	<b><u>Well Cap and Electric Conduit</u></b>
Make: _____	Make: _____	Two piece watertight cap: _____
Model #: _____	Model#: _____	Screened, vented well cap: _____
Pump Capacity _____ GPM	Depth: _____ (36" min)	Cap secured to casing: _____
Well Yield: _____ GPM	NSF/WSC approved: _____	Conduit min 18" B.G.: _____
Depth of well encountered at time of pump installation: _____ (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		
<b>Safety rope, if used, attached to brass rope adapter or other acceptable method <u>inside of well casing</u> _____</b>		

<b><u>Piping to house</u></b>	<b><u>House Connection</u></b>
Type: _____	PVC sleeve to undisturbed soil at wall penetration: _____
PSI: _____ (160 psi min)	Length of sleeve(5' minimum from foundation): _____
Depth of supply line: _____ (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 \_\_\_\_\_ date \_\_\_\_\_

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

Date Insp. Requested: 2/8/13 Date Insp. Approved: 2/8/13 Inspector: (KW)  
 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



Howard County  
Health Department

3525 H Ellicott Mills Drive, Ellicott City, MD 21043

(410) 313-2640 Fax (410) 313-2648

TDD (410) 313-2323 Toll Free 1-866-313-6300

website: [www.hchealth.org](http://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

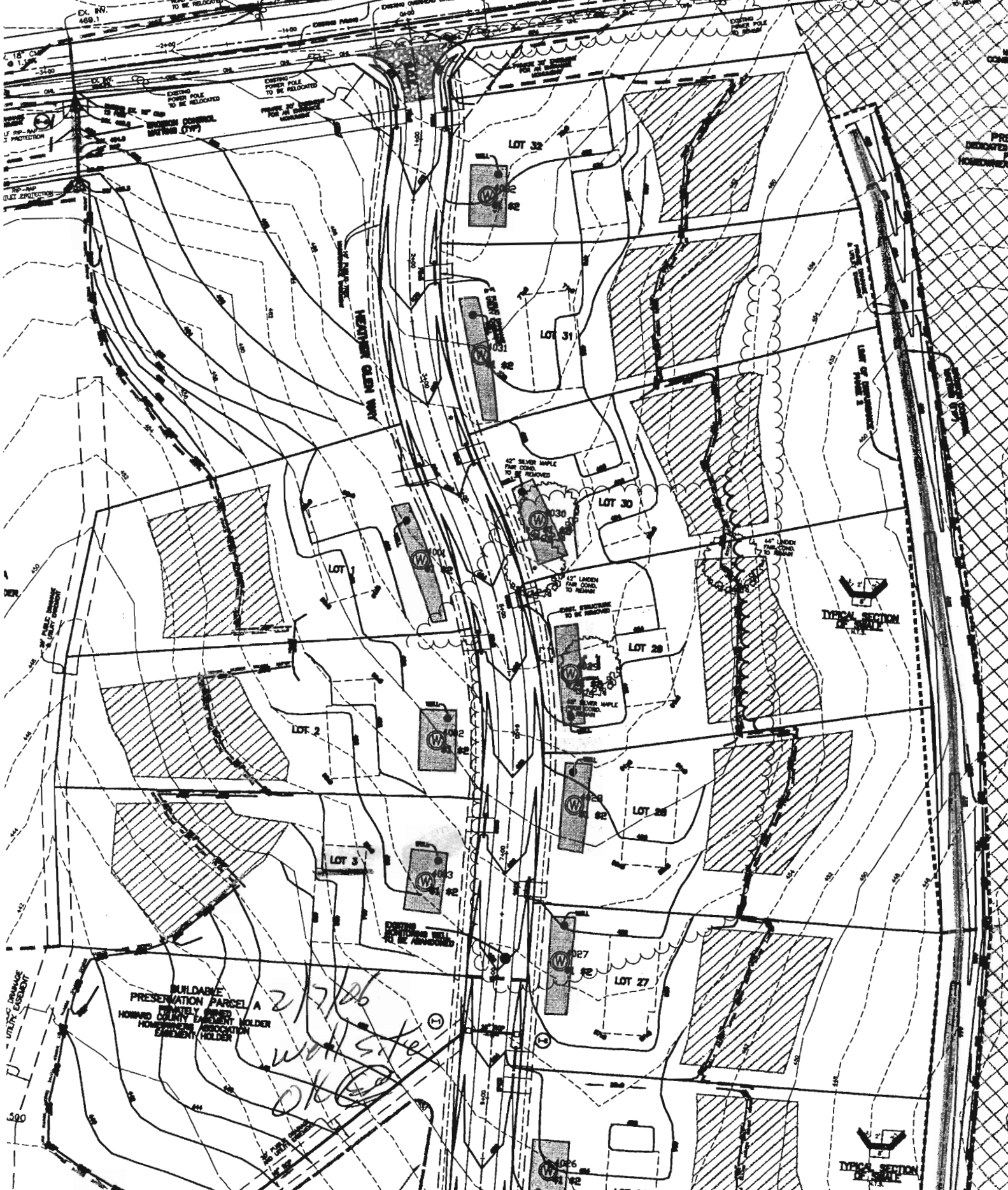
33 Lots for D. R. Horton  
Lurnbury Grove

LOT 3

LOTS 3 THRU 18  
PLAT NOS. 8801-8803  
F-88-33

LOT 18  
LARGESVILLE MANOR  
LOTS 3 THRU 18  
IT NOS. 8801-8803  
F-88-33

WATER COLLECTOR  
TRENCH  
UNDER  
DRAINAGE

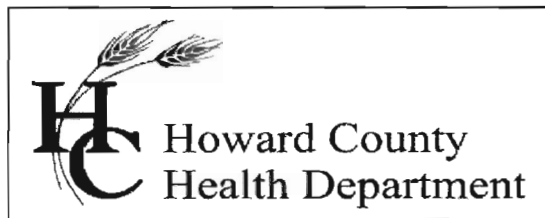


TYPICAL SECTION OF WALL

TYPICAL SECTION OF WALL

BUILDABLE PRESENTATION PARCEL A  
UNITS 1-18  
HONNOLD COUNTY EASEMENT HOLDER  
HONNOLD COUNTY ASSOCIATION  
EASEMENT HOLDER

21706  
with site  
OK



**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](http://www.hchealth.org)  
Facebook: [www.facebook.com/hocohealth](http://www.facebook.com/hocohealth)  
Twitter: HowardCoHealthDep

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

**INTERIM CERTIFICATE OF POTABILITY**  
**PERMANENT DEVIATION FOR NITRATES**  
**Expiration Date – December 12, 2013**

June 12, 2013

Homeowner  
6218 Heather Glen Way  
Clarksville, MD 21029

**RE: The Preserve at Clarksville, Lot 4**  
**6218 Heather Glen Way**  
**Building Permit: B12002404**  
**Well Permit: HO-95-0226**

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 **1/10/2013**. Final approval of the well line connection to the dwelling was granted on **2/8/2013**. The well construction was completed on **2/15/2006**. Water samples were collected on **5/22/2013 & 5/28/2013**.

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 **5/22/2013**. Results showed a Gross Alpha level of  $2.3 \pm 1.1$  pCi/L and **Gross Beta** level of  $3.8 \pm 1.4$  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.

The untreated water sample collected on **5/22/2013** indicated a nitrate level of **17.4 mg/L**. **This exceeds the maximum contaminant limit of 10 mg/L set forth in COMAR 26.04.04.09**. After installation of a nitrate removal device (kitchen tap reverse osmosis system), a post-treatment water sample was collected on **5/22/2013** and indicated a nitrate level of **<1.0 mg/L**.

This Department will grant a **permanent deviation** to the Interim Certificate of Potability on condition that the nitrate removal system effectively maintains a nitrate-nitrogen contaminant level of **10 mg/L or less**.

**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 nitrates analysis perform a yearly nitrate 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-95-0226. 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,



Heidi Scott, R.S.  
Environmental Sanitarian  
Well & Septic Program

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



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:

Amy Ferrer
Compass Homes
6206 Heather Glen Way
Clarksville, Maryland 21029

S/O Number: 89194-2

Report Date: June 10, 2013

Treated Sample

Property Sampled: 6218 Heather Glen Way, 21029
Sample Location: Kitchen R/O Tap
Residual Chlorine: <0.1 mg/L

Building Permit #: B12002404
Sampler ID #: 5745KC
Samples Iced: Yes

County: Howard
Map: 34

Subdivision: Preserve at Clarksville
Parcel: 77

Lot#: 4

Date/Time Collected in Field: May 22, 2013 @ 12:04 pm

Date/Time Received in Lab: May 22, 2013 @ 1:35 pm

Well Tag #: HO-95-0226
Well Condition: 2-Piece Cap, Satisfactory

Radium OK
6/12/13 HJ

Water Treatment/Conditioning: Sediment Filter, Reverse Osmosis (R/O)

Table with 6 columns: PARAMETER, METHOD, MDL (pCi/L), MCL\* (pCi/L), RESULT (pCi/L), ACCEPTABILITY. Rows include Gross Alpha (Short-Term), Gross Beta (Short-Term), Gross Alpha (Long-Term), and Gross Beta (Long-Term).

\*Note: There are no established limits set forth by the EPA for radionuclide particles in private well water. The limits for public water are instead provided as MCLs in this report and the acceptability of this sample is based on these requirements.

The results in this report relate only to those items tested. If any additional information or clarification of this report is required, please contact us. This test report shall not be reproduced except in full without the written approval of Trace Laboratories Inc.

Katherine C. Higgs
Katherine C. Higgs
Manager - Drinking Water Testing

MDL: Method Detection Limit
MCL: Maximum Contamination Level, an enforceable level established by the EPA
Analyzed by Lab # 278



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:

Amy Ferrer  
Compass Homes  
6206 Heather Glen Way  
Clarksville, Maryland 21029

S/O Number: 89194-2

Report Date: June 10, 2013

*Treated Sample*

Property Sampled: 6218 Heather Glen Way, 21029  
Sample Location: Kitchen R/O Tap  
Residual Chlorine: <0.1 mg/L

Building Permit #: B12002404  
Sampler ID #: 5745KC  
Samples Iced: Yes

County: Howard      Subdivision: Preserve at Clarksville  
Map: 34      Parcel: 77      Lot#: 4

Date/Time Collected in Field: May 22, 2013 @ 12:04 pm  
Date/Time Received in Lab: May 22, 2013 @ 1:35 pm

Well Tag #: HO-95-0226  
Well Condition: 2-Piece Cap, Satisfactory

Water Treatment/Conditioning: Sediment Filter, Reverse Osmosis (R/O)

PARAMETER	METHOD	MDL (pCi/L)	MCL* (pCi/L)	RESULT (pCi/L)	ACCEPTABILITY
Radium 226	EPA 903.1	0.1	5 pCi/L Combined	0.3 ± 0.1	Acceptable
Radium 228	EPA Ra-05	0.8		<0.8 ± 0.5	Acceptable

\*Note: There are no established limits set forth by the EPA for radionuclide particles in private well water. The limits for public water are instead provided as MCLs in this report and the acceptability of this sample is based on these requirements. Gross Alpha levels under 5 pCi/L are acceptable. Levels between 5 and 15 pCi/L are considered moderate, and levels greater than 15 pCi/L are considered high. When levels are moderate or high, treatment or further testing is recommended and in certain cases may be required by the health department.

The results in this report relate only to those items tested. If any additional information or clarification of this report is required, please contact us. This test report shall not be reproduced except in full without the written approval of Trace Laboratories Inc.

*Katherine C. Higgs*  
Katherine C. Higgs  
Manager – Drinking Water Testing

MDL: Method Detection Limit  
MCL: Maximum Contamination Level, an enforceable level established by the EPA  
Analyzed by Lab # 278



**TRACE LABORATORIES, INC**  
 5 North Park Drive  
 Hunt Valley, MD 21030 USA  
 Telephone: 410/584-9099 / Fax: 410/584-9117  
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Maryland State Certified Laboratory #318

**CERTIFICATE OF ANALYSIS**

**Requester:**

Amy Ferrer  
 Compass Homes  
 6206 Heather Glen Way  
 Clarksville, Maryland 21029

**S/O Number:** 89194-1

**Report Date:** June 10, 2013

*Raw Sample*

**Property Sampled:** 6218 Heather Glen Way, 21029  
**Sample Location:** Pressure Tank Tap  
**Residual Chlorine:** <0.1 mg/L

**Building Permit #:** B12002404  
**Sampler ID #:** 5745KC  
**Samples Iced:** Yes

**County:** Howard  
**Map:** 34

**Subdivision:** Preserve at Clarksville  
**Parcel:** 77

**Lot#:** 4

**Date/Time Collected in Field:** May 22, 2013 @ 12:13 pm  
**Date/Time Received in Lab:** May 22, 2013 @ 1:35 pm

*Bacteria FAIL  
 Nitrates FAIL*

**Well Tag #:** HO-95-0226  
**Well Condition:** 2-Piece Cap, Satisfactory

*Rest, OK*

*6/12/13 H8*

**Water Treatment/Conditioning:** Sediment Filter, Reverse Osmosis (R/O)

PARAMETER	METHOD	MCL/*SMCL	RESULT	PASS/FAIL
Total Coliform	SM 9223B	Absent	<del>PRESENT</del>	<del>FAIL</del>
<i>E. coli</i>	SM 9223B	Absent	Absent	Pass ✓
Nitrate	SM 4500D	10 mg/L as N	<del>17.4 mg/L as N</del>	<del>FAIL</del>
Turbidity	EPA 180.1	10 NTU	7.5 NTU	Pass ✓
pH	EPA 150.1	*6.5-8.5 Units	5.9 Units	*** ✓
Sand		Absent	Absent	Pass ✓

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*Katherine C. Higgs*  
 Katherine C. Higgs  
 Manager – Drinking Water Testing

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.



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Maryland State Certified Laboratory #318

**CERTIFICATE OF ANALYSIS**

**Requester:**

Amy Ferrer  
 Compass Homes  
 6206 Heather Glen Way  
 Clarksville, Maryland 21029

**S/O Number:** 89194-1

**Report Date:** June 10, 2013

*Raw Sample*

**Property Sampled:** 6218 Heather Glen Way, 21029  
**Sample Location:** Pressure Tank Tap  
**Residual Chlorine:** <0.1 mg/L

**Building Permit #:** B12002404  
**Sampler ID #:** 5745KC  
**Samples Iced:** Yes

**County:** Howard  
**Map:** 34

**Subdivision:** Preserve at Clarksville  
**Parcel:** 77

**Lot#:** 4

**Date/Time Collected in Field:** May 22, 2013 @ 12:13 pm  
**Date/Time Received in Lab:** May 22, 2013 @ 1:35 pm

**Well Tag #:** HO-95-0226  
**Well Condition:** 2-Piece Cap, Satisfactory

**Water Treatment/Conditioning:** Sediment Filter, Reverse Osmosis (R/O)

PARAMETER	METHOD	MDL (pCi/L)	MCL* (pCi/L)	RESULT (pCi/L)	ACCEPTABILITY
Gross Alpha (Short-Term)	EPA 900.0	1.7	15	6.3 ± 1.7	MODERATE
Gross Beta (Short-Term)	EPA 900.0	2.1	50	8.7 ± 1.6	Acceptable
Gross Alpha (Long-Term)	EPA 900.0	0.9	15	1.8 ± 0.9	Acceptable
Gross Beta (Long-Term)	EPA 900.0	1.7	50	3.9 ± 1.2	Acceptable

\*Note: There are no established limits set forth by the EPA for radionuclide particles in private well water. The limits for public water are instead provided as MCLs in this report and the acceptability of this sample is based on these requirements. Gross Alpha levels under 5 pCi/L are acceptable. Levels between 5 and 15 pCi/L are considered moderate, and levels greater than 15 pCi/L are considered high. When levels are moderate or high, treatment or further testing is recommended and in certain cases may be required by the health department.

The results in this report relate only to those items tested. If any additional information or clarification of this report is required, please contact us. This test report shall not be reproduced except in full without the written approval of Trace Laboratories Inc.

*Katherine C. Higgs*

Katherine C. Higgs  
 Manager – Drinking Water Testing

MDL: Method Detection Limit  
 MCL: Maximum Contamination Level, an enforceable level established by the EPA  
 Analyzed by Lab # 278



**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:**

Compass Homes  
 Attn: Amy Ferrer  
 6206 Heather Glen Way  
 Clarksville, Maryland 21029

**S/O Number:** 89280

**Report Date:** May 29, 2013

**Bacteria Retest #1**

**Property Sampled:** 6218 Heather Glen Way, 21029  
**Sample Location:** Pressure Tank  
**Residual Chlorine:** <0.1 mg/L

**Building Permit #:** 12002404  
**Sampler ID #:** 7483AM  
**Samples Iced:** Yes

**County:** Howard  
**Map:** 34

**Subdivision:** Preserve at Clarksville  
**Parcel:** 77

**Lot #:** 4

**Date/Time Collected in Field:** May 28, 2013 @ 10:45 am  
**Date/Time Received in Lab:** May 28, 2013 @ 12:14 pm

**Well Tag #:** HO-95-0226  
**Well Condition:** 2-Piece Cap, Satisfactory

*Bacteria OK  
 6/12/13 HS*

**Water Treatment/Conditioning:** Sediment Filter, Reverse Osmosis (R/O)

PARAMETER	METHOD	MCL	RESULT	PASS/FAIL
Total Coliform	SM 9223B	Absent	Absent	Pass
<i>E. coli</i>	SM 9223B	Absent	Absent	Pass

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*Katherine C. Higgs*  
 Katherine C. Higgs  
 Manager – Drinking Water Testing



Bureau of Environmental Health  
 7178 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

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

REQUEST FOR PERMANENT DEVIATION TO  
 NITRATE STANDARDS FOR CERTIFICATE OF POTABILITY

DATE: 6/11/13 WELL PERMIT #: HO - 95 - 0226  
 PROPERTY OWNER: Neel + Sharada Vibhakar  
 SUBDIVISION & LOT #: Preserie at Clarksville Lot #4  
 PROPERTY ADDRESS: 6218 Heather Glen Way  
Clarksville, MD 21029

CONDITIONS:

- 1) The well installed under permit # HO - 95 - 0226 has been documented to have a nitrate level of 174 ppm, which exceeds the MCL of 10 ppm.
- 2) After installation and operation of a nitrate filtration system, water samples collected on 5/22/13 indicated that the nitrate contamination has been reduced to 1.0 ppm at the primary drinking tap.

I hereby request that a Permanent Deviation to COMAR 26.04.04.09 be granted for the well installed under permit HO - 95 - 0226. I am fully aware of the conditions under which this deviation will be granted, and of my responsibilities as the well owner, which include advising any future buyer/ tenant of the installation, condition and maintenance responsibilities of the nitrate removal device.

Prospective Owner's Original Signature(s) [Person(s) that intend to live in the dwelling]

[Signature] Sharada Vibhakar

Prospective Owner's Day Time Phone Number(s)

410-916-4255, 410-987-42~~55~~<sup>45</sup>, 443-517-3335



**TRACE LABORATORIES, INC**  
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Maryland State Certified Laboratory #318

**CERTIFICATE OF ANALYSIS**

**Requester:**

Amy Ferrer  
 Compass Homes  
 6206 Heather Glen Way  
 Clarksville, Maryland 21029

**S/O Number:** 89194-2

**Report Date:** June 10, 2013

*Treated Sample*

**Property Sampled:** 6218 Heather Glen Way, 21029  
**Sample Location:** Kitchen R/O Tap  
**Residual Chlorine:** <0.1 mg/L

**Building Permit #:** B12002404  
**Sampler ID #:** 5745KC  
**Samples Iced:** Yes

**County:** Howard  
**Map:** 34

**Subdivision:** Preserve at Clarksville  
**Parcel:** 77

**Lot#:** 4

**Date/Time Collected in Field:** May 22, 2013 @ 12:04 pm  
**Date/Time Received in Lab:** May 22, 2013 @ 1:35 pm

**Well Tag #:** HO-95-0226  
**Well Condition:** 2-Piece Cap, Satisfactory

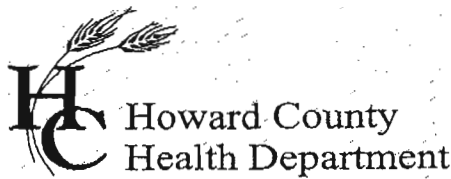
*Nitrate OK  
 6/12/13  
 MS*

**Water Treatment/Conditioning:** Sediment Filter, Reverse Osmosis (R/O)

PARAMETER	METHOD	MCL	RESULT	PASS/FAIL
Nitrate	SM 4500D	10 mg/L as N	<1.0 mg/L as N	Pass

The results in this report relate only to those items tested. If any additional information or clarification of this report is required, please contact us. This test report shall not be reproduced except in full without the written approval of Trace Laboratories Inc.

*Katherine C. Higgs*  
 Katherine C. Higgs  
 Manager – Drinking Water Testing



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

March 7, 2006

D.R. Horton  
1370 Piccard Drive  
Rockville, MD 20850

RE: Turnbury Grove Subdivision, Lot 3/4

7/12/2 RB

Well Tag: HO-95-0226

To Whom It May Concern:

A sample was taken from a yield test on February 15, 2006 and samples submitted to GPL Laboratories to assess the possible presence of **Gross Alpha** and **Gross Beta** in the future well water supply. Gross Alpha and Gross Beta measure the total alpha and beta activity in a water supply. In turn, this can provide information regarding naturally occurring radiation (i.e. Radionuclides) that may exist in your water supply.

Results from this screening revealed a **Gross Alpha** of  $5.0 \pm 0.8$  picocuries/liter (pCi/L); while the **Gross Beta** level was  $4.5 \pm 0.7$  pCi/L. The **Gross Alpha** result was below the maximum contaminant level (MCL) of 15 pCi/L, while the **Gross Beta** was below the MCL of 50 pCi/L.

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

Sincerely,

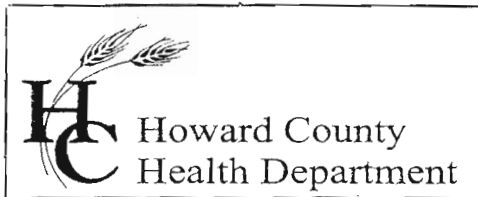
Bert Nixon, Assistant Director  
Bureau of Environmental Health

Eric Dougherty, MDE, Water Mgmt., Groundwater  
Well & Septic Property File

Analytical Summary Report

Client Name: Howard County Health Department      Client Sample ID: (HO-GC)HO-95-0226  
Sample Date/Time: 2/15/2006      Lab Sample ID: 602058-011-011-1/1  
Receipt Date/Time: 2/15/2006      Sample Matrix: WATER  
Prepared Date/Time:      Analytical Method: ALPHA/BETA BY METHOD 900.0

Isotope	Result	Uncertainty $1\sigma$	MDA	Q
Gross Alpha	5.0469 pCi/L	$\pm 0.7739$ pCi/L	1.4405 pCi/L	
Gross Beta	4.4528 pCi/L	$\pm 0.6815$ pCi/L	2.1589 pCi/L	



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website: www.hchealth.org

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

March 9, 2006

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

RE: Water Sample Results  
(4) Lot~~3~~ Turnbury Grove  
HO - 95 - 0226

To Whom it May Concern:

During the recent "yield test" of the well serving the future Lot 3 (located on Heather Glen Way), a sample was collected for volatile organic compounds (VOC's) on February 15, 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. With respect to these parameters, the well water supply is currently safe for all uses.

A copy of the 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

BN/bn  
Enclosure

✓ cc: Lot 3 Trunbury Grove Property File



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: 961138 TB Method: EPA 524.2  
 Date Analyzed: 02/28/06

<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 Date Approved: 3/2/06

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: 961138 HCHGWL3-1

Method:

EPA 524.2

Date Analyzed: 02/28/06

<u>Contaminants</u>	<u>DL*</u>	<u>MCL*</u>	<u>Result*</u>	<u>Contaminants</u>	<u>DL*</u>	<u>MCL*</u>	<u>Result*</u>
<b>TRihalOMETHANES</b>				<b>UNREGULATED</b>			
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
<b>REGULATED</b>				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: 

Date Approved: 3/2/06

Phone: (410) 767-5896

Fax: (410) 225-9318

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

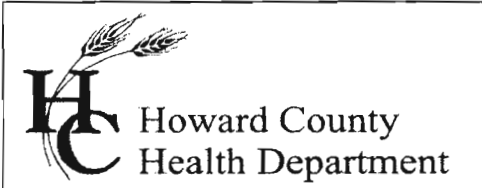
Sample Name: 961138 FB  
 Date Analyzed: 02/28/06

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: Richard Miller Date Approved: 3/2/06



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(410) 313-2640 Fax (410) 313-2648  
TDD (410) 313-2323 Toll Free 1-866-313-6300  
website: www.hchealth.org

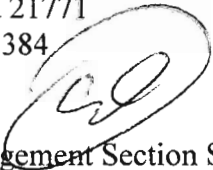
---

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.

Cc: D. R. Horton, Inc.  
File



HOWARD COUNTY HEALTH DEPARTMENT

W5 23944

DATE 1/20/2006

Received From D.R. HORTON, INC PHONE # 301 670 6144

301 Commercial St, 5th Floor, Fairwood TX 76102

For Well Points

CASH

CHECK

33 lots Turnbury Grove

NO.

102414 Five thousand two hundred eighty and 00/100 Dollars

\$ 5280.00

Received By Mary Ruggie