

C18767

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  
NUMBER13A517422

ST/CO USE ONLY  
DATE Received  
MMDDYY  
813

DATE WELL COMPLETED  
082207

Depth of Well  
2230028  
(TO NEAREST FOOT)

PERMIT NO.  
FROM "PERMIT TO DRILL WELL"  
H10-95-0595

OWNER  
STREET OR RFD  
SUBDIVISION

DeFrancis  
Watkins Bridge Lane  
Walnut Grove

first name  
TOWN  
LOT

Clarksville  
42

WELL LOG  
Not required for driven wells

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

DESCRIPTION (Use  
additional sheets if needed)

FEET  
FROMTO

check  
if water  
bearing

Top Soil01  
Clay112  
Sandy1226  
Sand Stone2630  
MICKA3050  
Sand Stone5055  
MICKA55200  
Sand Stone200205  
MICKA205300

GROUTING RECORD  
WELL HAS BEEN GROUTED  
(Circle Appropriate Box)

YES  
Y44

NO  
N44

TYPE OF GROUTING MATERIAL (Circle one)

CEMENTCMBENTONITE CLAYBC

NO. OF BAGS454613NO. OF POUNDS45461300

GALLONS OF WATER78

DEPTH OF GROUT SEAL (to nearest foot)

from0ft. to30ft.

48TOP5254BOTTOM58

(enter 0 if from surface)

CASING RECORD

casing  
types  
insert  
appropriate  
code  
below

STEELSTCONCRETECO  
PLASTICPLOTHEROT

MAIN  
CASING  
TYPE  
PL

Nominal diameter  
top (main) casing  
(nearest inch)6

Total depth  
of main casing  
(nearest foot)40

606163646670

OTHER CASING (if used)

EACH  
CASING

diameter  
inch

depth (feet)  
fromto

screen type  
or open hole

SCREEN RECORD

STEELSTBRASSBR  
BRONZEPL  
PLASTICPLOTHEROT

insert  
appropriate  
code  
below

OPEN  
HOLE  
HOLE  
OTHER

DEPTH (nearest ft.)

1238300

8911151721

232426303236

383941454761

SLOT SIZE 123

DIAMETER  
OF SCREEN

(NEAREST  
INCH)

5660

fromto

GRAVEL PACK  
IF WELL DRILLED  
WAS FLOWING WELL  
INSERT F IN BOX 68

68

MDE USE ONLY  
(NOT TO BE FILLED IN BY DRILLER)

T(E.R.O.S.)WQ

7072747576

TELESCOPE  
CASING

LOG  
INDICATOR

OTHER DATA

PUMPING TEST

HOURS PUMPED (nearest hour)3

89

PUMPING RATE (gal. per min.)5

1115

METHOD USED TO  
MEASURE PUMPING RATE

Buck

WATER LEVEL (distance from land surface)

BEFORE PUMPING18ft.

1720

62

WHEN PUMPING22ft.

2225

TYPE OF PUMP USED (for test)

AairPpistonTturbine

272727

CcentrifugalRrotaryOother  
(describe below)

272727

JjetSsubmersible

2727

PUMP INSTALLED

DRILLER-INSTALLED PUMP  
(CIRCLE) (YES or NO)

YESNO

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

29

CAPACITY:  
GALLONS PER MINUTE  
(to nearest gallon)

3135

PUMP HORSE POWER

3741

PUMP COLUMN LENGTH  
(nearest ft.)

4347

CASING HEIGHT (circle appropriate box  
and enter casing height)

+above

LAND SURFACE

below

2(nearest  
foot)

495051

LOCATION OF WELL ON LOT

SHOW PERMANENT STRUCTURE SUCH AS  
BUILDING, SEPTIC TANKS, AND /OR  
LANDMARKS AND INDICATE NOT LESS  
THAN TWO DISTANCES  
(MEASUREMENTS TO WELL)

Prop  
Line

75' well  
100'

Prop Line

B 1 0554

SEQUENCE NO.  
(MDE USE ONLY)STATE OF MARYLAND  
APPLICATION FOR PERMIT TO DRILL WELL  
325642 please type

STATE PERMIT NUMBER

HO-95-0595

fill in this form completely

Date Received (APA)

## OWNER INFORMATION

8 13  
Land Marketing Consultants  
15 Last Name Owner First Name 34  
36 3060 Rt 94  
Street or RFD 55  
61 Glenwood MD 21738  
57 Town 70 State 72 Zip 76

## DRILLER INFORMATION

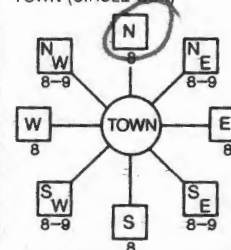
Driller's Name 76 License No. 81  
Ralph E. Mayne M S D 117  
Firm Name  
Ralph E. Mayne Inc  
17024 Handy Rd Mt. Airy MD 21771  
Address  
Signature Date  
R.E. Mayne 11-11-06

B 3

## LOCATION OF WELL

8 21  
Howard  
COUNTY  
WALNUT GROVE  
23 SUBDIVISION 42  
SECTION 44 46 LOT 48 50  
CLARKSVILLE  
52 NEAREST TOWN 71  
MILES FROM TOWN (enter 0 if in town) 2 M J  
73 76 77 78

B 4

1 2  
DIRECTION OF WELL FROM  
TOWN (CIRCLE BOX)

WATKINS BRIDGE LA  
11 NEAR WHAT ROAD 30

ON WHICH SIDE OF ROAD  
(CIRCLE APPROPRIATE BOX)

34 135 37  
DISTANCE FROM ROAD  
ENTER FT OR MI 38 39  
TAX MAP: 28 BLK: 18 PARCEL 74

B 2

## WELL INFORMATION

APPROX. PUMPING RATE  
(GAL. PER MIN.) 8 5 12  
AVERAGE DAILY QUANTITY NEEDED  
(GAL. PER DAY) 14 500 20

## USE FOR WATER (CIRCLE APPROPRIATE BOX)

- 22 ☒ 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 (13) A517422  
COUNTY NAME COUNTY NO.

STATE SIGNATURE INSERT S → 41

DATE ISSUED 12/19/2006 Brian Baber 12/19/2007

43 48 CO SIGNATURE EXP. DATE

NORTH GRID 508 000 EAST GRID 815 000  
50 55 57 63

APPROXIMATE DEPTH OF WELL 150 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-PERCUSION ROTARY (Hydraulic Rotary)  
37 CABLE Reverse-ROTARY Drive-POINT  
other

REPLACEMENT OR DEEPEINED WELLS  
(CIRCLE APPROPRIATE BOX)

- 39 ☒ 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 H02005G006

PERMIT No. HO-95-0595

## SPECIAL CONDITIONS

NOTE - APPROVING AUTHORITIES SHOULD USE SPECIAL CONDITIONS IF NEEDED

Health Dept. Must Collect Water Sample During Yield Test

SHOW MAJOR FEATURES OF  
BOX & LOCATE WELL WITH AN X

SOURCES OF DRILLING WATER

1. well  
2.  
3.

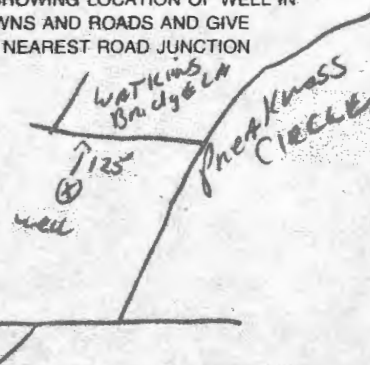
WRITE THE BOX NUMBER  
FROM THE MAP HERE

E 815

N 508

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

N



Well Permit No. HO - 95-0595  
Location of property (road) Watkins Bridge Lane  
Subdivision Walnut Grove Lot 442 Block      Plat      Sec.       
Well Driller Ralph Mayne Owner DeFrancis

Depth of well 300'  
Distance of measuring point (M.P.) above ground 28 ft  
Static water level (S.W.L.) below M.P. 18 ft

Time pump started 8:00 Pumping rate 10 Gpm  
Total time 15 min to reach pumping water level 62 ft. below M.P.

[illegible]



02-03-2010 03:58pm From-

WG-42  
T-273 P.001/001 F-431

**HOWARD COUNTY HEALTH DEPARTMENT  
BUREAU OF ENVIRONMENTAL HEALTH  
WATER AND SEWERAGE PROGRAM  
TEL: (410)313-2640 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 Standards 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: Joel Isaacs Plb's Svc Telephone #: 410 442-5780  
Address: PO Box 250 (o) 410 365-1279  
Lisbon MD 21765

(Must circle one) Licensed Plumber Licensed Well Driller Licensed Well Pump Installer  
License # and name of individual responsible for the field installation:  
Name (Print): Joel Isaacs License # 4524

\*A licensed individual must perform the actual installation. Apprentices must be under the direct supervision of a licensed journeyman or master plumber, pump installer or well driller. Licenses may be subjected to field verification.

Name of Property Owner: Columbia Builders Telephone #: 410 730-3939  
Subdivision: Walnut Grove Lot #: 42 Well Tag #: HO-95-0595  
Site Address: 12407 Watkins Bridge Ln  
Ellicott MD 21042

<b>Submersible Pump Data</b>	<b>Pitless Adapter</b>	<b>Well Cap and Electric Conduit</b>
Make: <u>Myers</u>	Make: <u>Campbell</u>	Two piece watertight cap: <input checked="" type="checkbox"/>
Model #: <u>3/4 HP</u>	Model #: <u>310X</u>	Screened, vented well cap: <input checked="" type="checkbox"/>
Pump Capacity: <u>7</u> GPM	Depth: <u>42"</u> (36" min)	Cap secured to casing: <input checked="" type="checkbox"/>
Well Yield: <u>5</u> GPM	NSF approved: <input checked="" type="checkbox"/>	Conduit min 1 1/2" B.G.: <input checked="" type="checkbox"/>
Depth of well encountered: <u>360</u> (feet)		Conduit secured to well cap: <input checked="" type="checkbox"/>

If pump capacity exceeds well yield, a low water cut off switch is required by NSPC 1990 Section 17.8.4  
Torque arrestors or Cable glands are required - Must circle one  
Safety rope, if used, attached to inside of well casing with eye bolt ☒

**Piping to house**  
Type: 1" Poly  
PSI: 160 (160 psi min)  
Depth of supply line: 36" (35" min)

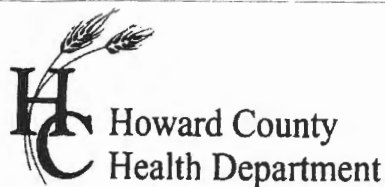
**House Connection**  
PVC sleeved to undisturbed soil at wall penetration: ☒  
Approximate length of sleeve: 10'  
Sleeve caulked and sealed properly: ☒

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: Joel Isaacs date: 5-11-10

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

Date Insp. Requested: \_\_\_\_\_ Date Insp. Approved: 5/13/2010 JB  
Inspection Data:  
 Pitless adapter and 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 installed inside of well casing ☒  
 Correct well tag attached properly and casing 5" 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:

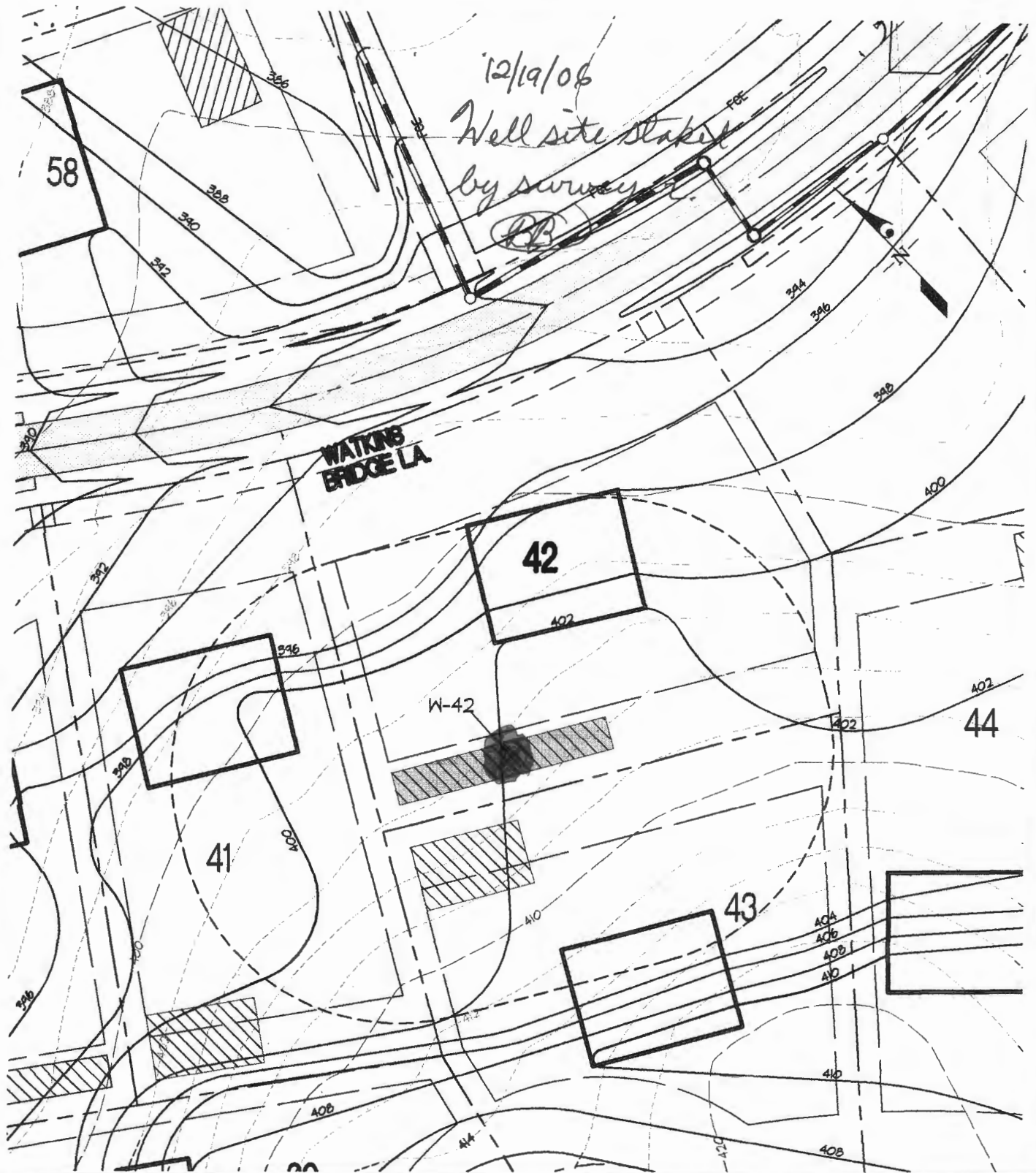
<u>Walnut Grove</u>	<u>42</u>	<u>Watkins Bridge Lane</u>
Subdivision/Property Name	Lot #	Road Name

- ☒ 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  
Well site staked  
by surveyor  
PB



**LEGEND**

- PROPOSED LPSS
- PROPOSED STORM DRAIN

HOUSE  
BOX



WELL BOX

W-05 — X — WELL  
SURVEY POINT

**WELL LOCATION EXHIBIT - LOT 42**

**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 BAL: 410-880-1820 DC/VA: 301-989-2524 FAX: 301-421-4186

SCALE: 1"=50'

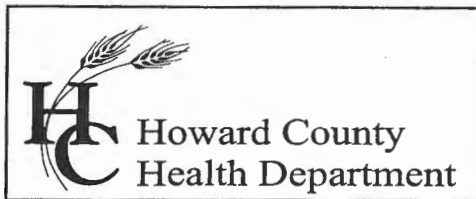
ZONING: RC/RR-DEO

TAX MAP/GRID: 28-18/17

GLW JOB NO: 00153

OCT., 2006

1 OF 1



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

February 28, 2007

Walnut Grove, LLC  
10705 Charter Dr.  
Suite 320  
Columbia, Maryland 21044

RE: Walnut Grove, Lot #42  
Well Tag: HO-95-0595

To Whom It May Concern:

A sample was collected from a yield test on February 22, 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** measure the total alpha and beta particle activity in a water supply. In turn, this can provide information regarding naturally occurring radiation (i.e., Radionuclides) that may exist in your area of development within the County.

Results from this screening revealed a **Gross Alpha** of  $1.6 \pm 0.9$  picocuries/liter (pCi/L); while the **Gross Beta** level was  $3.4 \pm 1.0$  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 target 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 appears safe for all uses. No additional testing for these parameters will be required to secure the future Use & Occupancy. However, other standard (potability) testing will still be necessary.

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,

Bert Nixon, Deputy Director  
Bureau of Environmental Health

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





**FOUNTAIN VALLEY ANALYTICAL LABORATORY, INC.**

1413 Old Lanesville Rd. Westminster, MD 21156 (410) 876-1010 (410) 876-1554 FAX (410) 876-0291

**REPORT OF ANALYSIS**

Laboratory ID #: 76397 Account #: 1550  
Reference: Walnut Grove Lot 42 Company: Columbia Builders  
Location: 12407 Watkins Ridge Lane Requested By: Terry Brownley  
Clarksville, MD 21029 Source: Well Water  
Date/ Time Collected: 8/11/2010 0915 Site: Pressure Tank  
Date/Time Rec'd: 8/11/2010 1300 Treatment: Spin Down Separator\*\*  
Chlorine ppm: Free: ND Total: ND pH: 6.2  
Collected By: J. Yeager 6176JY Well #: HO-95-0596

PARAMETERS	RESULTS	UNITS	REFERENCE	METHOD	DATE/TIME ANALYST
Bacteria, Coliform, Total, MPN	<1.0	MPN/ 100 ml	<1.0	SM18 9223	8/12/2010 / 1430 / KME
Bacteria, E. coli, MPN	<1.0	MPN/ 100 ml	<1.0	SM18 9223	8/12/2010 / 1430 / KME
Nitrate	8.38	mg/L	10	601	8/12/2010 / 1100 / CCH
Turbidity	4.82	NTU	<10	SM18 2130B	8/12/2010 / 1015 / KME
Sand	NS	mg/L	5	Visual/Gravimetric	8/12/2010 / 1015 / KME

OK (signature)

**NOTES**

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

Reason for Test : Use & Occupancy  
Building Permit #: B-10000494

Date Reported: 8/12/2010



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*

August 16, 2010

Homeowner  
12407 Watkins Bridge Lane  
Clarksville, MD 21029

RE: Walnut Grove – Lot 42  
12407 Watkins Bridge Ln  
BP #: 10000494  
Well Tag # HO-95-0595

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 08/17/2010.**  
**Final approval of the well line connection to the dwelling was approved on 05/13/2010.**

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.

Enclosed with this certificate, are copies 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-95-0595. 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: 08/11/2010  
Date of Well Completion: 02/22/2007

Approving Authority,

*Brian Baker*

Heidi Scott, R. S.  
Well & Septic Program

cc: Building Inspector's Office  
Community Hygiene Program  
File