C 1 8736 SEQUENCE NO. (MDE USE ONLY)	STATE OF MARYLAND WELL COMPLETION REPORT	THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED.
(THIS NUMBER IS TO BE PURCHED IN COLS. 3-6 ON ALL CARDS)	FILL IN THIS FORM COMPLETELY PLEASE TYPE	COUNTY AS17422
ST/CO USE ONLY DATE Received MM DD YY 8 13	Depth of Well 22 0 26 (TO NEAREST FOOT)	PERMIT NO. FROM "PERMIT TO DRILL WELL" 28 29 30 31 32 33 34 35 36 37
OWNER DE France	S a l	25 25 30 31 32 33 34 35 36 37
STREET OR RFD last name hout file	String & LA first name TOWN	, Clarksulte (a)
SUBDIVISION Walnut Br	SECTIONSECTION	14 LOT (8/) 8/
WELL LOG Not required for driven wells	WELL HAS BEEN GROUTED (Yes N	C 3
STATE THE KIND OF FORMATIONS PENETRATED, THEIR COLOR, DEPTH, THICKNESS AND IF WATER BEARING	WELL HAS BEEN GROUTED (Circle Appropriate Box) TYPE OF GROUTING MATERIAL (Circle one)	PUMPING TEST 3
DESCRIPTION (Use FEET check if water	CEMENT CM BENTONITE CLAY BC	HOURS PUMPED (nearest hour)
additional sneets if needed) FHOM 10 bearing	NO. OF BAGS NO. OF POUNDS	PUMPING RATE (gal. per min.)
sana	DEPTH OF GROUT SEAL (to nearest foot)	METHOD USED TO MEASURE PUMPING RATE Bucket,
Mica Rock 86 100 -	from 48 TOP 52 ft. to 54 BOTTOM 58 ft.	WATER LEVEL (distance from land surface)
	(enter 0 if from surface) Casing CASING RECORD	BEFORE PUMPING 26 ft.
	types insert appropriate STEL CONCRETE	WHEN PUMPING 26 ft.
	code below PLASTIC OTHER	TYPE OF PUMP USED (for test)
	MAIN Nominal diameter Total depth	A air P piston T turbine
	CASING top (main) casing of main casing (nearest foot)	C centrifugal R rotary Other (describe below)
	60 61 63 64 66 70	J jet Submersible
	C OTHER CASING (if used) A diameter depth (feet)	27 27
	H inch from to	DRILLER INSTALLED PUMP YES NO
	Ĭ N G	(CIRCLE) (YES or NO) IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS.
	screen type or open hole ST BR HO	TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O) 29
	insert appropriate code BRASS BRONZE HOLE	IN BOX 29. CAPACITY: GALLONS PER MINUTE
	below PLASTIC OTHER	(to nearest gallon) 31 35
	C 2 DEPTH (nearest ft.)	PUMP HORSE POWER 37 41 PUMP COLUMN LENGTH
NUMBER OF UNSUCCESSFUL WELLS:	1240 88 100	(nearest ft.)
WELL HYDROFRACTURED YES NO N	E 1 8 9 11 15 17 21	CASING HEIGHT (circle appropriate box and enter casing height)
CIRCLE APPROPRIATE LETTER	C 2 4 26 30 32 36	above LAND SURFACE
A WELL WAS ABANDONED AND SEALED WHEN THIS WELL WAS COMPLETED	S C 3 R 38 39 41 45 47 51	below below (nearest)
P TEST WELL CONVERTED TO PRODUCTION	E SLOT SIZE 1 2 3	A LOCATION OF WELL ON LOT
HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN ACCORDANCE WITH COMAR 26.04.04 "WELL CONSTRUCTION" AND	N DIAMETER (NEAREST	SHOW PERMANENT STRUCTURE SUCH AS BUILDING, SEPTIC TANKS, AND /OR
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.	OF SCREEN INCH)	LANDMARKS AND INDICATE NOT LESS THAN TWO DISTANCES (MEASUREMENTS TO WELL)
DRILLERS LIC. NO. 1 M S D 024	GRAVEL PACK IF WELL DRILLED	Lee attacked location.
DRILLERS SIGNATURE	WAS FLOWING WELL INSERT F IN BOX 68 68	1. +
(MUST MATCH SIGNATURE ON APPLICATION) LIC. NO. 1 D	MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER) T (E.R.O.S.) W Q	
	. 70 72	₩
SITE SUPERVISOR (sign. of driller or journeyman responsible for sitework if different from permittee)	TELESCOPE LOG 74 75 76 CASING INDICATOR OTHER DATA	Sin Carrie Constant Fil
DENV-CR00	COUNTY	

B 1	nga	SEQUENCE NO.	STATE OF	MARYLAND	STATE PERMIT NU	MBER
1	007	(MDE USE ONLY)		ERMIT TO DRILL WELL	110-95-1	2417
			THE RESERVE OF THE PARTY OF THE	se type	fill in this form con	polotoly 79
	Date Received	(APA)		B 3	LOCATION OF WELL	ipietely
	8 MM DD Y	OWNER INFO	PRMATION	HOLLY	ird	
	b www DD Y	MKTE DANS	ultante Tor	8 COUNTY	21	
	15 Last Name	Owner	First Name 34	23 SUBDIVISION	GLORE	42
	3060	Washingto	in RD i	SECTION	LOT L 81	
	36	Street or RFD	55	44 46	48 50	
1	5 Town	mood WD	21738	LClarks	Ville	
		70 State	72 Zip 76	52 NEAREST TOWN		71
	Rala	h F MAUNE	M Sp /17	MILES FROM TOWN (ente	r 0 if in town) M	78
	Driller's Name	1 Ellingoc	76 License No. 81	B 4		
	Ralph	t. Mayne	INC	1 2 DIRECTION OF WELL FROM	WATK, AS Buils	E LA.
MP.	Firm Name	11. I Dinit 1	1 Am 0.77	TOWN (CIRCLE BOX)	11 NEAR WHAT ROA	D 30
	Address	Haragia IM.	HELIMIT TITLE	NW B NE	ON WHICH SIDE OF ROAD	
	The	E Theyen	11-20-05	8-9 1 8-9	(CIRCLE APPROPRIATE BO	WI 32 [E]
183	Signature		Date	W TOWN E	34 275	WEST SEAST
B 1	2 WEL	L INFORMATION APPROX. PUMPING RATE -	5	3 74 3	DISTANCE FROM F	ROAD PA
1	2	(GAL. PER MIN.)	8 12	Sw SE	ENTER FT	
	AVERAGE DAILY	QUANTITY NEEDED 14	200	8-9 S 8-9	TAX MAP: BLK:	PARCEL
13		ISE FOR WATER (CIRCLE A		NOT TO	BE FILLED IN BY DRILLEI	R
177	DOMES	TIC POTABLE SUPPLY & RESIDE	NTIAI	HEALTH	DEPARTMENT APPROVA	L
FSF	IRRIGA			Howard	(13) A517	422
	F FARMIN	G (LIVESTOCK WATERING & AGF	RICULTURAL	COUNTY NAME STATE	COL	JNTY NO.
22		RIAL, COMMERICIAL, DEWATERI	NG	SIGNATURE	INSERT S	s ——
1	P PUBLIC	WATER SUPPLY WELL	6	DATE ISSUED	Snear Bakan	alodon
15		BSERVATION, MONITORING		43 MM DD YY 48	CO SIGNATURE	EXP. DATE
185	G GEO-TH				0 0 EAST 8/4	000
	33000			50	55 57	63
546	ABBBOVILLATE	15 / 5	0	SHOW MAJOR FEATURES BOX & LOCATE WELL '_	OF .	
	APPHOXIMATE	DEPTH OF WELL 24	FEET 28	WITH AN X	(X)	
	APPROXIMATE [DIAMETER OF WELL	NEAREST INCH	SOURCES OF DRILLING V	VATER	
		METHOD OF DOUL IN		2.		
	BORED (or Auge	METHOD OF DRILLING red) JETTED	j (circle one) Jetted & DRIVEN	3.		
20	AIR-ROTary	AIR-PERcussion	ROTARY (Hydraulic Rotary)	WRITE THE BOX NUMBER		
37	CABLE	REVerse-ROTary	DRive-POINT	FROM THE MAP HERE	Sayphota	ten
	other			aldu	Souphton dung you 000 1/2/	ld test
1		REPLACEMENT OR DEEP	ENED WELLS	E 6174	- 000 1/21	07 (Ky)
	N THIS WEL	(CIRCLE APPROPRIAT		509	000	0
5	THE WEL	L WILL NOT REPLACE AN EXIST L WILL REPLACE A WELL THAT		N	SHOWING LOCATION OF WELL IN	
11	Y	ED AND SEALED		RELATION TO NEARBY TO	OWNS AND ROADS AND GIVE	
39		L WILL REPLACE A WELL THAT		DISTANCE FROM WELL T	O NEAREST ROAD JUNCTION	
	FOR POLI	CY ON STANDBY WELLS		225	1400	
113		L WILL DEEPEN AN EXISTING W		W/ -	CHEN	
		R OF WELL TO BE REPLACED (- 52	N	LA.	10
	Not to be	filled in by driller (MDE OR (COUNTY USE ONLY)	4 /4	PATRICIS Bridge A.	1 WE.
		11000	110 311 -111	11:12	Je (A	- Jake Like
	APPROP. PERM	T NUMBER HQ2Q	05 G 00 0	1.13		Jore Che
		PERMIT No HO	-95-0427			1 0
		7,0 71	72 73 74 75 76 77 78 79			
	SPECIAL CON	DITIONS DRITIES SHOULD USE SEPARATE SHEET IF NEEDED =				⊕

DENV-Permit 97

@ DRILLER

Page	of
Date	1-2- 2007

FIELD DATA SHEET HOWARD COUNTY WELL YIELD TEST

Tell Permit No. HO - 95- 0427
ocation of property (road) " Watkins Dudge La
ubdivision highant Grove Lot By Block 18 Plat 28 Sec. Pare 74
Total Mayne Owner De Frances
Depth of well 100
Distance of measuring point (M.P.) above ground Static water level (S.W.L.) below M.P.
. High rate pumping reservoir drawdown
Time pump started

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

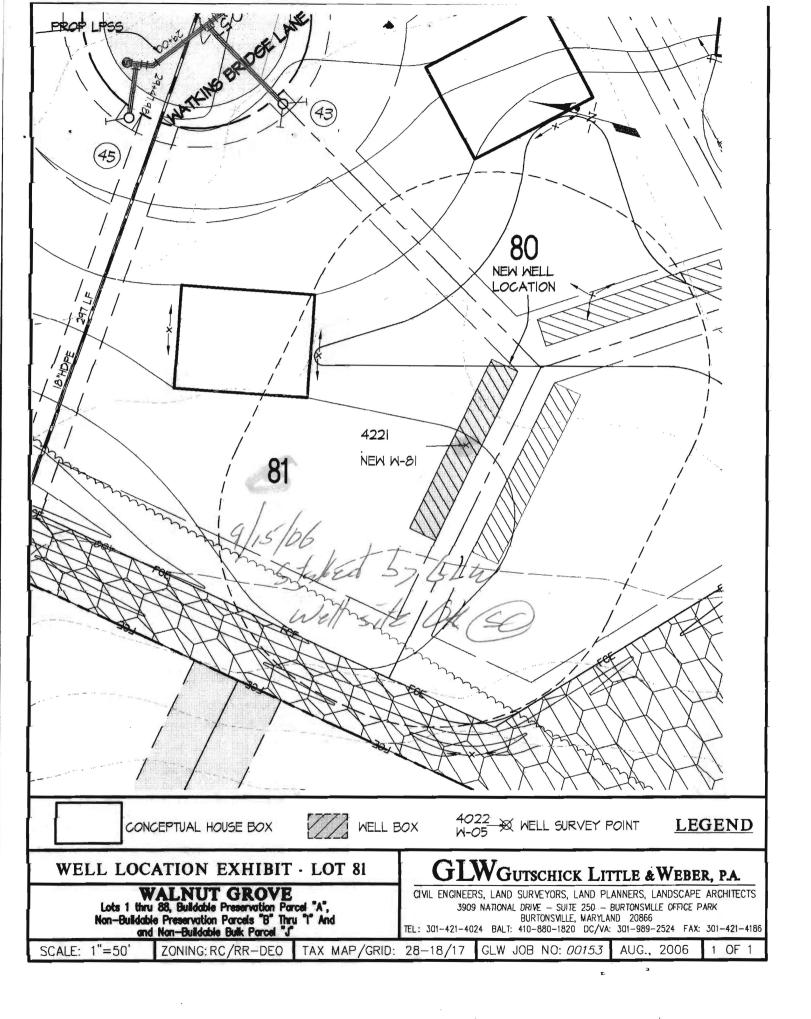
TIME (in 15 minute in- tervals	WATER LEVEL below M.P.	PUMPING RATE time to fill \$ / gallon bucket	FLOW METER READING (if used)	CALCULATED FLOW (gallons per minute)
7:15	26	4 sec.	N/A	15 gam.
7:30	26	4		1501
7:95	26	4		15
2:00	26	4		15
8:15	26	4		15
8:30	26	4		15
8:45	26	4		15
9:00	26	4		15
9:15	20	4		15
9:30	26	4		15
9:45	26	4		15
10:00	-20	4		15

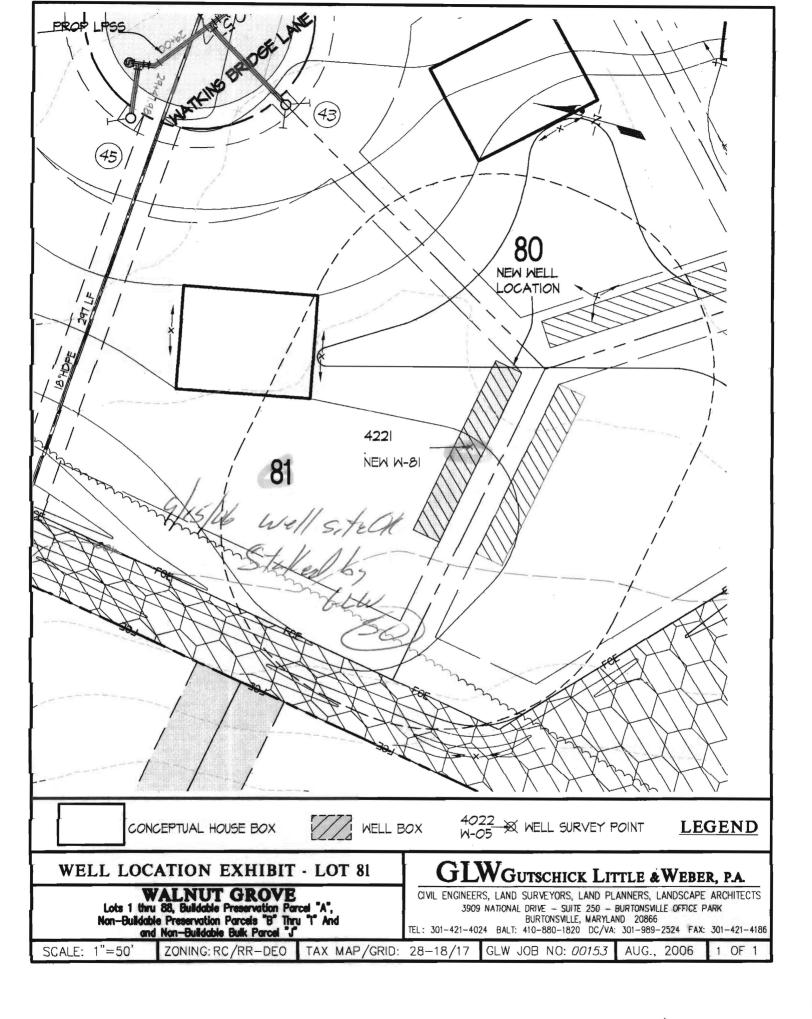
HOWARD COUNTY HEALTH DEPARTMENT BUREAU OF ENVIRONMENTAL HEALTH WATER AND SEWERAGE PROGRAM TEL: (410)313-2640 FAX: (410)313-2648

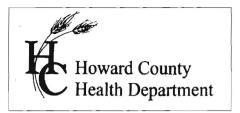
Information Form for the Installation of the Well Pump, Pitless Adapter, and Supply Piping

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: National Water SVC Telephone #: 301-854-1333 Address: P.O. Box 138 ASATON, M.D. 20861
(Must circle one) Licensed Plumber Licensed Well Driller (Licensed Well Pump Installer)
License # and name of individual responsible for the field installation:
Name (Print): David RYCKE License#
*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: Selfridge Kuilders Telephone #: 410-531-8930 Subdivision: Walnut Grove Lot #: 81 Well Tag #: HO-95-0427
Site Address: 12449 WATKINS BRICKE LA
Clarksville
Submersible Pump Data Pitless Adapter Well Cap and Electric Conduit
Make: Grundfor Make: Competi Two piece watertight cap: V
Model #: 15 SOE 07-180 Model #: PA 300 Screened, vented well cap:
Pump Capacity 15 GPM Depth: 48" (36" min) Cap secured to casing:
Well Yield: /5 GPM NSF approved: YES Conduit min 18" B.G.:
Depth of well encountered at time of pump installation: 100 (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 or Cable guards are required - Must circle one
Safety rope, if used, attached to inside of well casing with eye bolt MA
Piping to house House Connection
Type: Poly PVC sleeved to undisturbed soil at wall penetration: YES
PSI: 160 (160 psi min) Approximate length of sleeve: 5
Depth of supply line: 4' (36" min) Sleeve caulked and sealed properly: Vest
The water supply line is required to be at least ten feet from the septic tank, pump chamber, sewage piping,
distribution box, grainfields, and sewage reserve area. If this cannot be accomplished, contact this office for
approval prior to installation.
\tag{\tag{\tag{\tag{\tag{\tag{\tag{
1-8-1/
Signature of company representative responsible for installation date
For Health Department Use Only - Not to be completed by Installer
Date Insp. Requested: 10/14/2010 Date Insp. Approved: OK (10/14/10
Hispection Data: Litters agapter and water supply time at teast 20 perow Brade
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 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 TDD (410) 313-2323

Fax (410) 313-2648 Toll Free 1-866-313-6300

website: www.hchealth.org

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

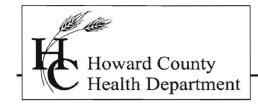
ATTENTION WELL DRILLERS!!!

When submitting a well application for a new or replacement well, please indicate one of the following:

VZ	The	e well site has been staked by	Gutschick, Little & Weber
	on	11/10/2005	
	_	will call th	ne Health Department
	for	a time to meet in the field to	verify a well location.
	Sit	e plan for new well is attached	to well permit application.
Ple	ase	attach this sheet when submit	ting your green application.
Thi	is sh	nould help improve communicat	ion allowing a more timely

KN

service for our citizens.



Bureau of Environmental Health 7178 Gateway Drive Columbia, MD (410) 313-2640 Fax (410) 313-26

TDD (410) 313-2323

Columbia, MD 21046 Fax (410) 313-2648 Toll Free 1-866-313-6300

Website: www.hchealth.org

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

February 11, 2011

Homeowner 12449 Watkins Bridge Lane Clarksville, MD 21029

RE: Walnut Grove, Lot 81

12449 Watkins Bridge Lane

BP #: B10001527 Well Tag: HO-94-0427

Dear Sir:

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 01/31/2011. Final approval of the well line connection to the dwelling was approved on 10/14/2010.

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.

Gross Alpha and Beta samples were also collected on 01/02/2007. Both findings were below the maximum limit suggested by the EPA. At the time of the testing and with respect to these parameters, the future well water supply appears safe for all uses. No addition testing **for these parameters** will be required to secure the future Use and Occupancy.

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-94-0427 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: Date of Well Completion: 02/02/2011 01/02/2007

01/02/2007

Approving Authority,

Brian Baker, R. S.

Environmental Sanitarian Well & Septic Program

cc:

Building Inspector's Office 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:

S/O Number: 80264

James H. Selfridge Builders Inc

Report Date: February 3, 2011

4781 Ten Oaks Road

Dayton, Maryland 21036

Property Sampled:

12449 Watkins Bridge Lane, 21029

Building Permit #:

B10001527

Sample Location:

Pressure Tank

Sampler ID #:

9813AM

Residual Chlorine:

<0.1 mg/L

Samples Iced:

Yes

County: Map:

Howard

Subdivision:

Parcel:

Walnut Grove

Lot #:

81

Date/Time Collected in Field:

28

February 2, 2011 @ 11:25 am

Date/Time Received in Lab:

February 2, 2011 @ 3:00 pm

Well Tag #:

HO-95-0427

Well Condition:

2-Piece Cap, Satisfactory Condition

Water Treatment/Conditioning:

Sediment Filter

PARAMETER	METHOD	MCL/*SMCL	RESULT	PASS/FAIL
Total Coliform	SM 9223B	Absent	Absent	Pass
E. coli	SM 9223B	Absent	Absent	Pass
Nitrate	SM 4500D	10 mg/L as N	4.5 mg/L as N	Pass
Turbidity	EPA 180.1	10 NTU	8.7 NTU	Pass
pH	EPA 150.1	*6.5-8.5 Units	7.8 Units	***
Sand		Negative	Negative	

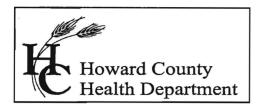
Katherino C. Hi

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.



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

Watkins Bilyo

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

January 22 2007

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

> RE: Walnut Grove Subdivision, Lot 81 Well Tag: HO – 95 – 0427

To Whom It May Concern:

A sample was collected during a yield test on January 2, 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. 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 2.0 ± 0.9 picocuries/liter (pCi/L); while the Gross Beta level was 3.3 ± 1.1 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 MCL of 4 millirem/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 or concerns.

Sincerely.

Bert Nixon, Deputy Director Bureau of Environmental Health

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

Send Ber	Report To:	DHMH - Labo Division of En	e of Maryland oratories Administration over the control of the con		
			et, Baltimore, Maryland		
			oy, Dr. P.H., Direc		
			ANALYSIS RE	QUEST	
~	le Bottle No. A: KW81	WG0427	F-11-D1 1-D		
Samp	le Bottle No. A:	No. B:	_ Field Blank B		
Plant	/Site Name: \@ a_/	not work			rd
Samp	le Source: Vat kans	Bridge br	Location: 🦽	(well no., lab sink, sai	7 nple tap, etc.)
Coun		Plant No.]
Drink Land Stream Other	fill No	ommunity on-community ivate ther	Source (raw water) Distribution (treated) MCL	Emerger Routine Recheck Special	- PS-
Colle	ctor: K. Wolf		Telephone No.	410-313-2	2645
Date	Collected: _/_//	07	Time Collecte	d:/ <i>o</i> a.m	p.m.
Nitrio	Acid Preserved: Yes	⊠ No □	Iced: Yes	□ No 国	
Subm	nitters Code:	Federal Project:	Field Data:		
	orks: Sample tal	ten Durmo	1.4 1		nlorine
			1.4 1		Date Reported
Rema	orks: Sample tal	en Durno	yield tos	pH Ch	
Rema	Test	EPA Code	yield tos	pH Ch	
Rema	Test Gross Alpha	EPA Code 4000	yield tos	pH Ch	
Rema	Test Gross Alpha Gross Beta Radon-222	EPA Code 4000 4100	yield tos	pH Ch	
Rema	Test Gross Alpha Gross Beta Radon-222 Bottle A Radon-222	EPA Code 4000 4100 4004	yield tos	pH Ch	
Rema	Test Gross Alpha Gross Beta Radon-222 Bottle A Radon-222 Bottle B	EPA Code 4000 4100 4004 4004	yield tos	pH Ch	
Rema	Test Gross Alpha Gross Beta Radon-222 Bottle A Radon-222 Bottle B Field Blank A	EPA Code 4000 4100 4004 4004 4004	yield tos	pH Ch	
Rema	Test Gross Alpha Gross Beta Radon-222 Bottle A Radon-222 Bottle B Field Blank A Field Blank B	EPA Code 4000 4100 4004 4004 4004	yield tos	pH Ch	
Rema	Test Gross Alpha Gross Beta Radon-222 Bottle A Radon-222 Bottle B Field Blank A Field Blank B Tritium	EPA Code 4000 4100 4004 4004 4004 4004	yield tos	pH Ch	
Rema	Test Gross Alpha Gross Beta Radon-222 Bottle A Radon-222 Bottle B Field Blank A Field Blank B Tritium Ra - 226	EPA Code 4000 4100 4004 4004 4004 4004 4004	yield tos	pH Ch	
Rema	Test Gross Alpha Gross Beta Radon-222 Bottle A Radon-222 Bottle B Field Blank A Field Blank B Tritium Ra - 226 Ra - 228	EPA Code 4000 4100 4004 4004 4004 4004 4004 4000 4000 4000 4000	yield tos	pH Ch	
Rema	Test Gross Alpha Gross Beta Radon-222 Bottle A Radon-222 Bottle B Field Blank A Field Blank B Tritium Ra - 226 Ra - 228	EPA Code 4000 4100 4004 4004 4004 4004 4020 4030 4006	Laboratory No. 20/605-00/	pH Ch	