

COUNTY

EMERGENCY/TEMP NO. IF ANY STATE PERMIT NUMBER SEQUENCE NO STATE OF MARYLAND (MDE USE ONLY) APPLICATION FOR PERMIT TO DRILL WELL 73 Uplease type fill in this form completely LOCATION OF WELL В Date Received (APA) 3 OWNER INFORMATION JOJOS 13 COUN 21 8 8 DD and onsu mK tant First Name 23 SUBDIVISION 42 Last Name Owner 15 LOT ning SECTION Street or RFD 36 55 46 Mr 70 State TOWN 71 Town NEAREST DRILLER INFORMATION MILES FROM TOWN (enter 0 if in town) SD 76 77 78 M INC B 4 License No. 81 Driller's Nan 76 eet Mendow LA 2 DIRECTION OF WELL FROM TOWN (CIRCLE BOX) NEAR WHAT ROAD Firm Name 30 NORTH ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX) Nw N_E Address 0 ST S E w Signature Date 34 25 37 TOW E 8 B 2 WELL INFORMATION DISTANCE FROM ROAD FTI APPROX. PUMPING RATE 2 ENTER FT OR MI 38 39 Sw 8-9 (GAL. PER MIN.) 12 S 74 18 PARCEL AVERAGE DAILY QUANTITY NEEDED TAX MAP: BLK: 20 (GAL. PER DAY) USE FOR WATER (CIRCLE APPROPRIATE BOX) NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL DOMESTIC POTABLE SUPPLY & RESIDENTIAL D IRRIGATION COUNT FARMING (LIVESTOCK WATERING & AGRICULTURAL F IRRIGATION STATE SIGNATURE INSERT S 22 1 INDUSTRIAL, COMMERICIAL, DEWATERING 41 DATE ISSUED P PUBLIC WATER SUPPLY WELL 26 MM 43 SIGNATUR DATE T TEST. OBSERVATION, MONITORING EAST NORTH 000 000 GRID G GEO-THERMAL 50 SHOW MAJOR FEATURES OF BOX & LOCATE WELL ' APPROXIMATE DEPTH OF WELL J FEET WITH AN X 24 28 SOURCES OF DRILLING WATER NEAREST 11 APPROXIMATE DIAMETER OF WELL 6 1. INCH ulell 2 METHOD OF DRILLING (circle one) 3. BORED (or Augered) JETTED **Jetted & DRIVEN** 30 AIB ROTary AIR-PERcussion **ROTARY** (Hydraulic Rotary) WRITE THE BOX NUMBER 37 test CABLE **REVerse-ROTary DRive-POINT** FROM THE MAP HERE other REPLACEMENT OR DEEPENED WELLS 000 (CIRCLE APPROPRIATE BOX) N THIS WELL WILL NOT REPLACE AN EXISTING WELL N THIS WELL WILL REPLACE A WELL THAT WILL BE DRAW A SKETCH BELOW SHOWING LOCATION OF WELL IN Y ABANDONED AND SEALED RELATION TO NEARBY TOWNS AND ROADS AND GIVE DISTANCE FROM WELL TO NEAREST ROAD JUNCTION queek LA THIS WELL WILL REPLACE A WELL THAT WILL BE USED 39 S AS A STANDBY-CONTACT LOCAL APPROVING AUTHORITY FOR POLICY ON STANDBY WELLS D THIS WELL WILL DEEPEN AN EXISTING WELL PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPENED WATKINS BRIdys N (IF AVAILABLE) 41 Not to be filled in by driller (MDE OR COUNTY USE ONLY) 100 11 APPROP. PERMIT NUMBER HO PERMIT No. SPECIAL CONDITIONS • O USE SEPARATE SHEET IF NEEDED

All Permit No.	#0 - C	75-0	HOWARD C		YIELD TEST		
Depth o Distanc Static . High rate	f well e of meas water lev pumping	180 uring po el (S.W.	oint (M.P. .L.) below rvoir draw) above gr M.P. /	\sim		
Total ti	me 15 m.	to to	reach pum		Pumping rate <u>70</u> 6 level <u>22</u> ft. recorded every 15 minu		2.
TIME (in 15 minute in- tervals	WATER below		PUMPING time to gallon	fill F	FLOW METER READING (if used)		ATED FLO ons per ce)
8:00	15	15	6	See-	Test Stanted	10	61m
8:15	1 80	fr		<u>C</u>	Test Simmicy		<u>C</u> a.
8:30	22	h	6	Sec		10	6 Aur
8:45	22 22		6	Sa		10	GPM
5:00		#		Sec.		-	Gren
5:15	22	4	6	11		18	4
5:30	99 22	4	6			10	4
5:45	22	4	6	Sec		10	6 Pm
10:00	22	11	6	Sec		10	6Pm
10:15	12	#	6	Sec		10	Grac
10:30	22 22	11	6	1,		10	4
10:45	22	11	6			10	1
11:00	22	4	6	SEL		10	614
11:15	22	M	6	Sec		10	614

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: JUHNE, Putt Co Telephone #: 410-747-0678 Address: 5621 060 Frederick Rd CAtonswille Md 2122
(Must circle on Licensed Plumber) Licensed Well Driller Licensed Well Pump Installer License # and name of individual responsible for the field installation: Name (Print): <u>James Arnold</u> License# <u>MP § 33 7</u> *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: Junes Arnold Telephone #: 410-206-5396 Subdivision: WALNUT Grove Lot #: 69 Well Tag #: HO-95-0419 Site Address: 5211 Stylet MEA daw Lone Clarksville Mil 21029
Submersible Pump DataPitless AdapterWell Cap and Electric ConduitMake:Mup (h pMake:AmeTwo piece watertight cap:Model #:351b2-20Plus + 40Model#ams ft 325Screened, vented well cap:GesPump Capacity10GPMDepth:GesCap secured to casing:GesWell Yield:15GPMNSF/WSC approved:Conduit min 18" B.G.:GesGesDepth of well encountered at time of pump installation:180(feet)Conduit secured to well cap:GesIf pump capacity exceeds well yield, a low water cut off switch is required by NSPC 1990 Section 17.8.4Torque arrestorsCable guards, or other acceptable method used-Must circle oneSatery rope, if used, attached to brass rope adapter or other acceptable method inside of well casingStatesStatesStates
Piping to house House Connection Type: 1"
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 <u>cannot</u> be accomplished, contact this office for approvation to installation Signature of company representative responsible for installation <u>For Health Department Use Only – Not to be completed by Installer</u>
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

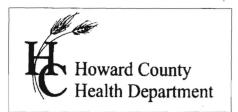
Adequate grout observed below pitless adapter

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 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: Address:	Telephone #:	r
License # and nan Name (Print): *A licensed indiv) Licensed Plumber Licensed Well Driller Licensed Well Pump Installer me of individual responsible for the field installation: License#	
subjected to field	d verification.	
Name of Property Subdivision: Site Address:	y Owner: Telephone #: Lot #: 69 Well Tag #: HO -95-0419	
If pump capacity of Torque arrestors of Safety rope, if us Piping to house Type: PSI:(160 p Depth of supply 1 The water supply		
Signature of com	npany representative responsible for installation date	
	For Health Department Use Only – Not to be completed by Installer	
	ested: <u>4/12/11</u> Date Insp. Approved: <u>4/19/41</u> Approved by 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 8" above finished grade Water supply line sleeved adequately at house connection Adequate grout observed below pitless adapter . 8/00)	tter
HD-215(Rev.	. 8/00) Pe-inspec	tion



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

ATTENTION WELL DRILLERS!!!

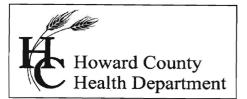
When submitting a well application for a new or replacement well, please indicate one of the following:

The well site has been staked by Gutschick, Little & Weber on 11/10/2005

will call the Health Department
for a time to meet in the field to verify a well location.
Site plan for new well is attached to well permit application.

Please attach this sheet when submitting your green application. This should help improve communication allowing a more timely service for our citizens.

KN



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

INTERIM CERTIFICATE OF POTABILITY PERMANENT DEVIATION FOR NITRATES Expiration Data MAY 8 2012

Expiration Date - MAY 8, 2012

NOVEMBER 8, 2011

JAMES C. AND PATRICIA ARNOLD 5211 SWEET MEADOW DRIVE CLARKSVILLE, MD 21029

RE: WALNUT GROVE, LOT 69 5211 SWEET MEADOW LANE Building Permit: B09003283 Well Permit: HO-95-0419

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 10/21/2011. Final approval of the well line connection to the dwelling was granted on 4/19/2011. The well construction was completed on 8/23/2006. Water samples were collected on October 21 and 31, and Novenber 4, 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 untreated water sample collected on October 21 indicated a nitrate level of 10.5 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 October 31 and indicated a nitrate level of 0.2 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 <u>yearly</u> nitrate analysis.
- 3. If you decide to sell or rent your home in the future, you <u>must</u> 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-95-0419. 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, ROBERT BRICKER

Environmental Sanitarian Well & Septic Program

cc: Howard County Dept. of Inspections, Licenses, and Permits Community Hygiene Program File 4105849117

TRACE Laboratoria	25			Telephone: 410/ Website: www.tracelabs.co	ABORATORIES, INC 5 North Park Drive Hunt Valley, MD 21030 USA 584-9099 / Pax: 410/584-9117 m / Email: info@tracelabs.com rtified Laboratory #318
		CERTIFICATE	OF ANA	ALYSIS	
Requester:		- 7 - Gen - Martine Y 2005 and and an announcement	a Mandalan yang kanang kana	S/O Number:	83246
Trinity Homes/TBI Hom 3675 Park Avenue Suit Ellicott City, MD 21043	e 301			Report Date:	November 4, 2011
Property Sampled: Sample Location: Residual Chlorine:	5211 Swee Pressure Ta <0.1 mg/L	t Meadow Lane, 21 ank Tap	029	Building Permit #: Sampler ID #: Samples Iced:	B09003283 9898JK Yes
County:HowaMap:28	ırd	Subdivision: Parcel:	Walr 74	ut Grove	69
Date/Time Collected in Date/Time Received in		November 4, 201 November 4, 201			
Well Tag #: Well Condition:		HO-95-0419 2-Piece Cap, Satis	sfactory		
Water Treatment/Cond	litioning:	Softener, Neutrali	zer, Sedim	ent Filter	
PARAMETER	метн	OD 1	MCL	RESULT	PASS/FAIL
Turbidity Sand	EPA 18	an and the second of the second s	ONTU bsent	<1.0 NTU Absent	Pass Pass

Katharina

Katherine C. Higgs () Manager – Drinking Water Testing

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

TRACE Laboratorie	5	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: <u>info@tracelabs.com</u> Maryland State Certified Laboratory #318			
	CERTIFIC	CATE OF ANALYSIS			
Requester:	Ξ.r.	S/O	Number: 83	3192	
Trinity Homes/TBI Hom 3675 Park Avenue Suite Ellicott City, MD 21043		Rep	oort Date: No	ovember 1, 2011	
Sample Location:	5211 Sweet Meadow La Kitchen R/O Tap <0.1 mg/L	ne, 21029 Building Per Sampler ID Samples Iced	#: 98	09003283 998JK es	
County: Howa Map: 28	rd Subdivision Parcel:	: Walnut Grove 74	Lot #:	69	
Date/Time Collected in Date/Time Received in		October 31, 2011 @ 12:59 pm October 31, 2011 @ 3:15 pm			
Well Tag #: Well Condition:	110 /0 0.12	HO-95-0419 2-Piece Cap, Satisfactory			
Water Treatment/Cond	itioning: Softener, Ne	Softener, Neutralizer, Sediment Filter, Reverse Osmosis (R/O)			

PARAMETER	METHOD	MCL	RESULT	PASS/FAIL
Nitrate	SM 4500D	10 mg/L as N	<0.2 mg/L as N	Pass

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

TRACE Laboratories			Telephone: 410/ Website: www.tracelabs.co	ABORATORIES, INC 5 North Park Drive Hunt Valley, MD 21030 USA 584-9099 / Fax: 410/584-9117 m / Email: <u>info@tracelabs.com</u> rtified Laboratory #318
	CERTIF	ICATE OF ANA	ALYSIS	
Requester:			S/O Number:	83105
Trinity Homes/TBI Homes 3675 Park Avenue Suite 301 Ellicott City, MD 21043			Report Date:	October 24, 2011
Sample Location: Hos	Sweet Meadow Bib Behind Gar mg/L		Building Permit #: Sampler ID #: Samples Iced:	B09003283 9170DH Yes
County:HowardMap:28	Subdivis Parcel:	on: Waln 74	uut Grove Lot #:	69
Date/Time Collected in Field Date/Time Received in Lab:		1, 2011 @ 10:59 a 1, 2011 @ 4:40 pn		
Well Tag #: Well Condition:		HO-95-0419 2-Piece Cap, Satisfactory		
Water Treatment/Condition	ing: Softener,	Neutralizer, Sedin	ent Filter (Bypassed)	
PARAMETER	METHOD	MCL/*SMCL	RESULT	PASS/FAIL
Total Coliform	SM 9223B	Absent	Absent	Pass
	SM 9223B	Absent	Absent	Pass
E. coli		1 tooont		
A REAL PROPERTY OF A REAL PROPER	SM 4500D	10 mg/L as N	10.5 mg/L as N	FAIL
Nitrate	SM 4500D EPA 180.1		10.5 mg/L as N 1.2 NTU	FAIL Pass

Absent

Katherine C. Higgs Manager - Drinking Water Testing

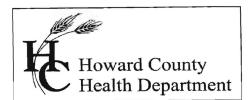
MCL: Maximum Contamination Level, an enforceable level established by the EPA

Sand

*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.

Absent

Pass



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

REQUEST FOR PERMANENT DEVIATION TO NITRATE STANDARDS FOR CERTIFICATE OF POTABILITY

DATE://////	WELL PERMIT # : HO - <u>95</u> - <u>0419</u>
PROPERTY OWNER: JIM	AND PATTY ARNOLD
SUBDIVISION & LOT #: WA PROPERTY ADDRESS: 52	LIVIT GROVE LOT 69 All Sweet MEADOW Jone, 21029

CONDITIONS:

1) The well installed under permit # HO -95 -0419 has been documented to have a nitrate level of 10.5 ppm which exceeds the MCL of 10 ppm. As a result of installation and operation of a nitrate filtration system, this nitrate contamination has been reduced to _____ 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 -04/19 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.

Prosp ner's Original Signature(s) [Person(s) that intend to live in the dwelling] 10 - 206 - 6181 JIM ARNold DIM ARNOW MATTY A Prospective Owner's Day Time Phone Number(s) 10-2010-5396 PA

October 5, 2006

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

RE: Walnut Grove Well Tag: HO-95-0419

To Whom It May Concern:

A sample was collected during a yield test on August 23, 2006 and submitted to Department of Health and Mental Hygiene Laboratories to assess the possible presence of **Gross Alpha** and **Gross Beta** in the future well water supply. **Gross Alpha** and **Gross Beta** measure the total alpha and beta particle activity in a water supply. These naturally occurring radioactive nuclides have been demonstrated to be present in a certain type of geologic formation known as the Baltimore Gneiss which exists in your area of development within the County.

Results from this screening revealed a Gross Alpha of 4.0 ± 2.0 picocuries/liter (pCi/L); while the Gross Beta level was 5.0 ± 2.0 pCi/L. The Gross Alpha result was below its maximum contaminant level (MCL) of 15 pCi/L, while the Gross Beta level was below its 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 or concerns.

Sincerely,

Bert Nixon, Deputy Director Bureau of Environmental Health

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

The John E. Ruth Company, Inc.

Plumbing & Heating Contractors 5621 Old Frederick Road, Suite 2 Catonsville, MD 21228 Phone (410)-747-0678 & Fax (410)-788-3623 Website: www.johneruthco.com

- To: Howard County Health Department Environmental Health Division 7178 Columbia Gateway Drive Columbia, MD 21046 Attn: Mr. Michael Johnson
- From: James Arnold (owner, contractor) 5211 Sweet Meadow Lane Clarksville, MD 21029 410-206-5396
- Re: Well Permit #95-0419 inspection

Via Fax: 410-313-2648

Date: April 19, 2011

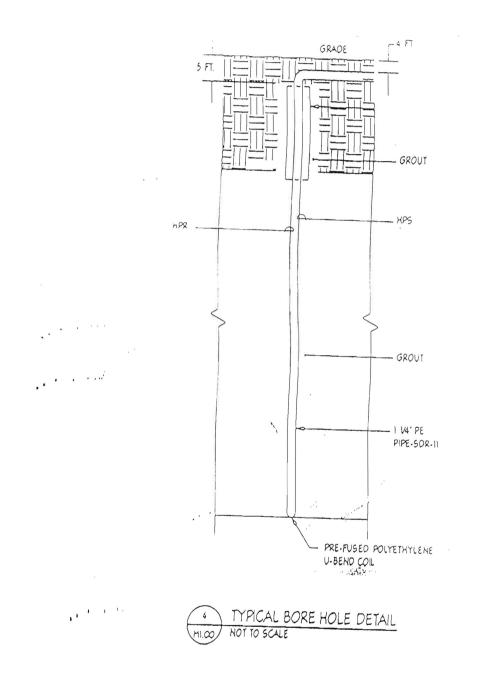
Dear Mr. Johnson,

As a follow-up to our phone conversation today, I submit the following for the record. I certify that the foundation well water sleeve pipe, consisting of Schedule 40 PVC pipe and fittings, was in fact installed through the foundation wall and extends out approximately 6' from the foundation wall. It was installed in accordance with the Health Dept. Regulations and was properly sealed.

Because of the uncertainty of the day to day weather conditions, the sleeve pipe and trench have been covered so that the pipe currently is not visible. I, as owner and contractor will assume all responsibility as to the condition of this installation and will hold harmless the Howard County Health Dept. and its Inspection Division.

Upon receipt of this notice, please enter into record a satisfactory result as to the inspection of same. If you require any additional information please feel free to contact me.

Respectfully James C. Arnold



.

• .

.

n e est

 ϕ_{i}