

1 2 3 6 (THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS) COUNTY NUMBER A 516902

ST/CO USE ONLY DATE Received DATE WELL COMPLETED Depth of Well PERMIT NO. FROM "PERMIT TO DRILL WELL" 7/16/07 04 KW Ho-95-1030

OWNER Highland Development Corporation STREET OR RFD Hidden Creek Way TOWN Mt. Airy SUBDIVISION Windsor Forest Knolls SECTION LOT 3

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		check if water bearing
	FROM	TO	
Brown Shale	0	59	
Blue Rock	59	320	

108 ÷ 6 = 18
18 ÷ 5.9 = 3.0

NUMBER OF UNSUCCESSFUL WELLS: 0

WELL HYDROFRACTURED YES NO

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

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

DRILLERS LIC. NO. 1 M S D 024
DRILLERS SIGNATURE Joseph L. Mayne
(MUST MATCH SIGNATURE ON APPLICATION)

LIC. NO. 1 D

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

GROUTING RECORD
WELL HAS BEEN GROUTED (Circle Appropriate Box) YES NO
TYPE OF GROUTING MATERIAL (Circle one) CEMENT BENTONITE CLAY
CEMENT NO. OF BAGS 18 NO. OF POUNDS 1642
GALLONS OF WATER 108
DEPTH OF GROUT SEAL (to nearest foot) from 0 ft. to 59 ft.

CASING RECORD
casing types insert appropriate code below
MAIN CASING TYPE ST Nominal diameter top (main) casing (nearest inch) 6 Total depth of main casing (nearest foot) 62

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

SCREEN RECORD
screen type or open hole insert appropriate code below
ST STEEL BR BRASS HO OPEN HOLE PL PLASTIC OT OTHER

C 2 DEPTH (nearest ft.)
1 2 HO 61 320
E 8 9 11 15 17 21
A 23 24 26 30 32 36
C 38 39 41 45 47 51
S
R
E
N
SLOT SIZE 1 2 3
DIAMETER OF SCREEN (NEAREST INCH) 56 60
from to

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 LOG OTHER DATA
CASING INDICATOR

C 3 **PUMPING TEST**
HOURS PUMPED (nearest hour) 3
PUMPING RATE (gal. per min.) 20
METHOD USED TO MEASURE PUMPING RATE Bucket
WATER LEVEL (distance from land surface) BEFORE PUMPING 40 ft. WHEN PUMPING 85 ft.
TYPE OF PUMP USED (for test) A air P piston T turbine C centrifugal R rotary O other (describe below) J jet S submersible

PUMP INSTALLED
DRILLER INSTALLED PUMP (CIRCLE) (YES or NO) YES NO
IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS.
TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O) IN BOX 29
CAPACITY: GALLONS PER MINUTE (to nearest gallon) 31 35
PUMP HORSE POWER 37 41
PUMP COLUMN LENGTH (nearest ft.) 43 47
CASING HEIGHT (circle appropriate box and enter casing height) (+) above LAND SURFACE (-) below (nearest foot) 1

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)
See attached location. Well drilled at location staked by FSH Engineers

B 1 9848

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL please type 526278

STATE PERMIT NUMBER

140-95-1030 fill in this form completely

Date Received (APA) 3/12/07

OWNER INFORMATION

Highland Development Corp P.O. Box 228 Clarksville Md 21029

B 3 LOCATION OF WELL

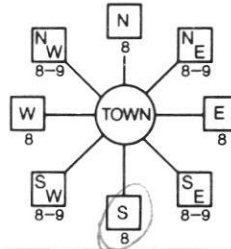
Howard 21 Windsor Forest Knolls 42 SECTION 44 46 LOT 3 48 50 Mt. Airy 71 MILES FROM TOWN 5

DRILLER INFORMATION

Joseph & Mayne MS D 024 Joseph & Mayne Well Drilling 5512 Ridge Rd Mt. Airy 21771 Joseph & Mayne 3-2-07

B 4

DIRECTION OF WELL FROM TOWN (CIRCLE BOX)



Hidden Creek Way 30

ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)



DISTANCE FROM ROAD 50 FT ENTER FT OR MI

TAX MAP: 6 BLK: 16 PARCEL 57

B 2 WELL INFORMATION

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

USE FOR WATER (CIRCLE APPROPRIATE BOX)

- DOMESTIC POTABLE SUPPLY & RESIDENTIAL IRRIGATION (circled) 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 A516902 COUNTY NAME COUNTY NO. STATE SIGNATURE DATE ISSUED 3/28/07 CO SIGNATURE 3/28/08 NORTH GRID 545 000 EAST GRID 0757 000

APPROXIMATE DEPTH OF WELL 300 FEET

APPROXIMATE DIAMETER OF WELL 6 INCH

METHOD OF DRILLING (circle one)

BORED (or Augered) JETTED Jetted & DRIVEN AIR-ROTary AIR-PERcussion ROTARY (Hydraulic Rotary) CABLE REVERSE-ROTary DRIVE-POINT

REPLACEMENT OR DEEPEMED 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 DEEPEM AN EXISTING WELL

PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEMED (IF AVAILABLE) 41 52

Not to be filled in by driller (MDE OR COUNTY USE ONLY)

APPROP. PERMIT NUMBER G

PERMIT No. 140-95-1030

SPECIAL CONDITIONS

PLEASE SEE ATTACHED MEMO REGARDING

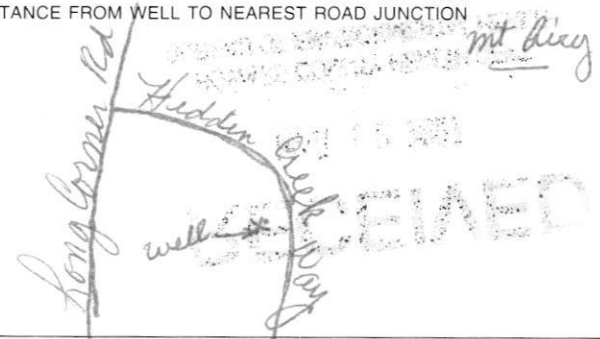
SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X

SOURCES OF DRILLING WATER

WRITE THE BOX NUMBER FROM THE MAP HERE

E 7507 N 5405

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



**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: Barlow Well Drilling Telephone #: 410-838-6910
Address: 522 UNDERWOOD LANE
BEL AIR, MD 21014

(Must circle one) Licensed Plumber Licensed Well Driller Licensed Well Pump Installer
License # and name of individual responsible for the field installation:
Name (Print): Michael Ison License# MSD162

***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: Keystone Homes Telephone #: 443-878-7754
Subdivision: Windsor Forest Knolls Lot #: 3 Well Tag #: HO 95-1030
Site Address: 18422 HIDDEN CREEK LANE
MT AIRY MD 21771

<u>Submersible Pump Data</u>	<u>Pitless Adapter</u>	<u>Well Cap and Electric Conduit</u>
Make: <u>STAR-K</u>	Make: <u>Bl</u>	Two piece watertight cap: <u>yes</u>
Model #: <u>7SP402-314hp</u>	Model#: <u>D100</u>	Screened, vented well cap: <u>yes</u>
Pump Capacity <u>7</u> GPM	Depth: <u>36</u> (36" min)	Cap secured to casing: <u>yes</u>
Well Yield: <u>20</u> GPM	NSF/WSC approved: <u>yes</u>	Conduit min 18" B.G.: <u>yes</u>
Depth of well encountered at time of pump installation: _____ (feet)		Conduit secured to well cap: <u>yes</u>

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

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

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 2-9-2022

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

Date Insp. Requested: 2/4/22 Date Insp. Approved: 2/14/22 Inspector: RR

Inspection Data: Pitless adapter watertight & water supply line at least 36" below grade	<u>✓</u>
Two piece cap installed and attached to casing securely	<u>✓</u>
Elec. conduit extends at least 18" below grade/attached to cap properly	<u>✓</u>
Safety rope not outside of well cap/casing	<u>✓</u>
Correct well tag attached properly and casing 8" above finished grade	<u>✓</u>
Water supply line sleeved adequately at house connection	<u>✓</u>
Adequate grout observed below pitless adapter	<u>✓</u>



Howard County
Health Department

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

Thursday, March 01, 2007

MEMORANDUM

IMPORTANT

To: FILE

From: Sara Fegel, R.S. *SF*
Well and Septic Program

Re: Windsor Forest Knolls
Lots 3

Maximize the separation between the well and the septic system on lot 3. The well must be drilled in the southeast corner of the well box and the septic system **must** be installed on the northern/northwestern most edge of the sewage disposal easement to maintain a 200 ft. separation between the well and septic system.

INTERIM CERTIFICATE OF POTABILITY

Expiration Date – SEPTEMBER 30, 2022

March 30, 2022

Homeowner
18422 Hidden Creek Way
Mt. Airy, MD 21771

RE: Windsor Forest Knolls, Lot 3
18422 Hidden Creek Way
Building Permit: B21002632
Well Permit: HO-95-1030

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 **3/22/2022**. Final approval of the well line connection to the dwelling was granted on **2/14/2022**. The well construction was completed on **6/7/2007**. Water samples were collected on **3/8/2022, 3/25/2022**.

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. 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-95-1030. 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 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>



Bureau of Environmental Health
8930 Stanford Blvd | Columbia, MD 21045
410.313.2640 - Voice/Relay
410.313.2648 - Fax
1.866.313.6300 - Toll Free

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

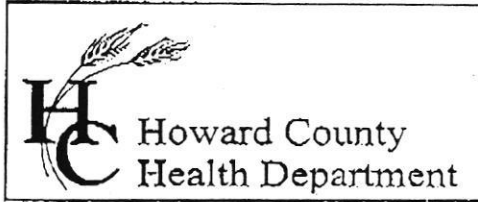
In closing, please refer to our "Homeowner Fact Sheet" which illustrates a better understanding for your Onsite Sewage Disposal System. You will also find a link to Maryland Department of the Environments website which describes in further detail operation and maintenance of your septic system.

Approving Authority,

A handwritten signature in black ink, appearing to read 'Kevin M. Wolf', is written over a light blue horizontal line.

Kevin M. Wolf, LEHS, R.S./REHS, Supervisor
Groundwater Management Section
Well & Septic Program

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



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

TO ALL INTERESTED PARTIES

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

Well Site Location:

<u>Windsor Forest Knolls</u>	<u>18 Lots</u>	<u>Hidden Creek Way</u>
Subdivision/Property Name	Lot#	Road Name

The well site has been staked by FSH Associates,
 (professional land surveyor or company employing professional land surveyors)

Wilhoon 3-15-2007 (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

[Faint, illegible text or stamp]



55,000sf±
(Pipe Stem=5,001sf±)

Maintained
by H.Q.A.

FRONT

LOT 2
48,280sf±

FRONT

Speed Limit
sign 25 mph
(R2-1)

604

50' BRL

Septic Easment
13,092 sf

S 62°47'10" E
24.00'

24' Use-Inr Common
Access Easement
for Lots 1 & 2

N 78°54'01" W
20.00'

N 27°12'50" E 81.83'

N 22°08'52" E

Conveyance
Channel

Proposed Stone
neck Dam

37.42'

135.00'

LOT 4
44,805sf±

Contractor to Provide
Flush Concrete Curb
Beginning @ Sta. 4+00
See Detail Sheet

HIDDEN CREEK WAY
(Public Access, Place)
(R/W 40')

R2-1 25
MPH
Sign

Septic Easment
10,627 sf

Septic Easment
11,649 sf

Septic Easment
10,881 sf

LOT 5
43,875sf±

LOT 3
42,811sf±

Public Drainage &
Utility Easement

End Flush
Concrete Curb
@ Sta 7+00

well site OK
staked by FSK
PC Sta. 4+36.83
Elev. 796.03

10' Public Tree
Easement

Point
68.14'

ENVIRO-CHEM LABORATORIES, INC.



47 Loveton Circle, Suite K • Sparks, Maryland 21152

410-472-1112

FINAL REPORT OF ANALYSIS

Michael Barlow Well Drilling
522 Underwood Lane
Bel Air, MD 21014

Report Date: 03/12/2022
Report Number: 220312132505
Use and Occupancy
PERMIT #:

LAB#- E069967-01 SAMPLE ID- 18422 Hidden Creek Way WELL #
LOCATION- Pressure Tank SAMPLER- S Duklewski #3073SD
DATE SAMPLED- 03/08/2022 TIME SAMPLED- 08:45 CHLORINE- Non detect
DATE RECEIVED- 03/08/2022 TIME RECEIVED- 16:52
DELIVERED BY- Steve Duklewski RECEIVED BY- Stephen Shelley
COMMENTS-

COMMENTS-

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT	DATA FLAG
Microbiology by Enviro-Chem					
Total Coliform	SM 9223B	03/08/22 17:00	VPS	Absent	PASS
E. Coli	SM 9223B	03/08/22 17:00	VPS	Absent	PASS

Based on coliform bacteriological standards, at the time of sampling this water was **SAFE** for drinking water purposes.

Total Metals by EPA 200.7 by Enviro-Chem

Iron	EPA 200.7	03/10/22 11:10	MAP	1.15	mg/L
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Wet Chemistry by Enviro-Chem

Nitrate (as N)	EPA 300.0	03/08/22 18:06	FRD	< 0.15	mg/L	PASS
pH	SM4500-H+B	03/09/22 15:40	FRD	6.9	SU	
Sand	EPA 160.5	03/09/22 15:15	VPS	< 0.5	ml/L/Hr	
Turbidity	EPA 180.1	03/09/22 15:40	FRD	12.4	NTU	

Stephen Shelley
Laboratory Director

Certifications

State of Maryland Laboratory

#192

ENVIRO-CHEM LABORATORIES, INC.



47 Loveton Circle, Suite K • Sparks, Maryland 21152

410-472-1112

FINAL REPORT OF ANALYSIS

Michael Barlow Well Drilling
522 Underwood Lane
Bel Air, MD 21014

Report Date: 03/29/2022
Report Number: 220329163653
Use and Occupancy
PERMIT #:

LAB#- E070160-01 SAMPLE ID- 18422 Hidden Creek Way - Post Treatment WELL #
LOCATION- Kitchen Sink SAMPLER- S Duklewski #3073SD
DATE SAMPLED- 03/25/2022 TIME SAMPLED- 09:00 CHLORINE-
DATE RECEIVED- 03/25/2022 TIME RECEIVED- 10:00
DELIVERED BY- Steve Duklewski RECEIVED BY- Fred Dory
COMMENTS- Neutralizer, Softener, Sediment Filter

COMMENTS-

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT	DATA FLAG
Total Metals by EPA 200.7 by Enviro-Chem					
Iron	EPA 200.7	03/29/22 14:11	MAP	0.090	mg/L
Wet Chemistry by Enviro-Chem					
Turbidity	EPA 180.1	03/25/22 14:20	RAS	0.8	NTU

Stephen Shelley
Laboratory Director

Certifications

State of Maryland Laboratory #192