

(THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS) FILL IN THIS FORM COMPLETELY PLEASE TYPE
 COUNTY NUMBER
 ST/CO USE ONLY DATE Received DATE WELL COMPLETED Depth of Well PERMIT NO. FROM "PERMIT TO DRILL WELL"
 MM DD YY 01 26 15 22 400 26 OK 2/26/15 SC HO-14-0113
 8 13 15 20 (TO NEAREST FOOT) 28 29 30 31 32 33 34 35 36 37

OWNER Land Design + Development
 WELL SITE ADDRESS Triadelphia Mill Rd TOWN Highland
 SUBDIVISION JACKS LANDING 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	
Soil	0	6	
Brown Shale	6	35	
Tan Rock	35	50	
Brown Shale	50	60	
Med Gray Rock	60	180	
Hard Green Rock	180	250	✓ 185
Med Gray Rock	250	400	✓ 320

GROUTING RECORD (Circle appropriate box)
 WELL HAS BEEN GROUTED YES NO
 TYPE OF GROUTING MATERIAL (Circle one)
 CEMENT BENTONITE CLAY
 NO. OF BAGS 17 NO. OF POUNDS 1918
 GALLONS OF WATER 102
 DEPTH OF GROUT SEAL (to nearest foot)
 from 0 ft. to 62 ft.
 from 17 ft. to 62 ft. (enter 0 if from surface)

CASING RECORD
 casing types insert appropriate code below
 ST STEEL CO CONCRETE
 PL PLASTIC OT OTHER
 MAIN CASING TYPE PL Nominal diameter top (main) casing (nearest inch)! 6 Total depth of main casing (nearest foot) 62
 60 61 63 64 66 70

OTHER CASING (if used)
 diameter inch depth (feet) from to
 E A C H I N G

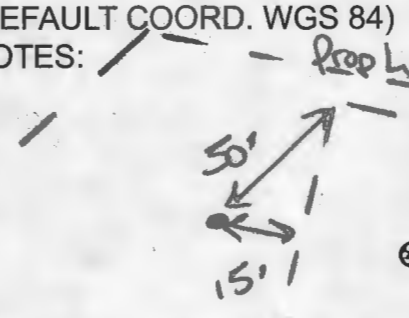
SCREEN RECORD
 screen type or open hole insert appropriate code below
 ST STEEL BR BRASS HO OPEN HOLE
 PL PLASTIC OT OTHER

C2 DEPTH (nearest ft.)
 T HO 62 400
 E 8 9 11 15 17 21
 A 23 24 26 30 32 36
 C 3
 S 38 39 41 45 47 51
 R
 E
 E
 N
 SLOT SIZE 1 _____ 2 2 3 _____
 DIAMETER OF SCREEN (NEAREST INCH)
 58 _____ 60 _____
 from _____ to _____

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.) W Q _____
 70 _____ 72 _____ 74 75 76 _____
 TELESCOPE CASING LOG INDICATOR OTHER DATA

C3 WELL STORAGE = $390' - 62' = 328' \times .65 = 213.29$
 $62' - 26' = 36' \times 1 = 36$
PUMPING TEST
 HOURS PUMPED (nearest hour) 6
 TOTAL STORAGE = 252.2 gal
 PUMPING RATE (gal. per min.) 2.0
 METHOD USED TO MEASURE PUMPING RATE Submersible
 WATER LEVEL (distance from land surface)
 BEFORE PUMPING 36 ft.
 WHEN PUMPING 300 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 _____ 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 (nearest foot)
 - below } _____

LATITUDE 39.21621
 LONGITUDE 76.07575
 (DEFAULT COORD. WGS 84)
 NOTES: Prop Line


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. MD355
 DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION)
Marty Dixon
 LIC. NO. MSD066
 SITE SUPERVISOR sign. of driller or journeyman responsible for sitework if different from permittee)

B 1 20748

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL please type

STATE PERMIT NUMBER

140-14-0113 fill in this form completely

Date Received (APA)

08 22 14

OWNER INFORMATION

LAND DESIGN & DEVELOPMENT 5300 JORSEY HALL DRIVE, SUITE 102 ELLCOTT CITY MD 21043

B 3

LOCATION OF WELL

HOWARD COUNTY JACK'S LANDING SUBDIVISION 5 SECTION 44 46 LOT 48 50 HIGHLAND NEAREST TOWN

DRILLER INFORMATION

MICHAEL BARLOW MWD 355 BARLOW WELL DRILLING 522 UNDERWOOD LANE 21014 MD 8/18/14

B 4

SOURCES OF DRILLING WATER

1. WELL

TRADEPHIA MILL RD ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX) 500 DISTANCE FROM ROAD ENTER FT OR MI TAX MAP: 34 BLK: PARCEL 414

B 2

WELL INFORMATION

APPROX. PUMPING RATE (GAL. PER MIN.) 5 AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) 750

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL

Howard COUNTY NAME 3 COUNTY NO. 517922 STATE SIGNATURE INSERT S DATE ISSUED 10/7/14 CO SIGNATURE 10/7/15

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 OPEN LOOP GEOTHERMAL CLOSED LOOP GEOTHERMAL

APPROXIMATE DEPTH OF WELL 24 28 FEET

APPROXIMATE DIAMETER OF WELL NEAREST 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

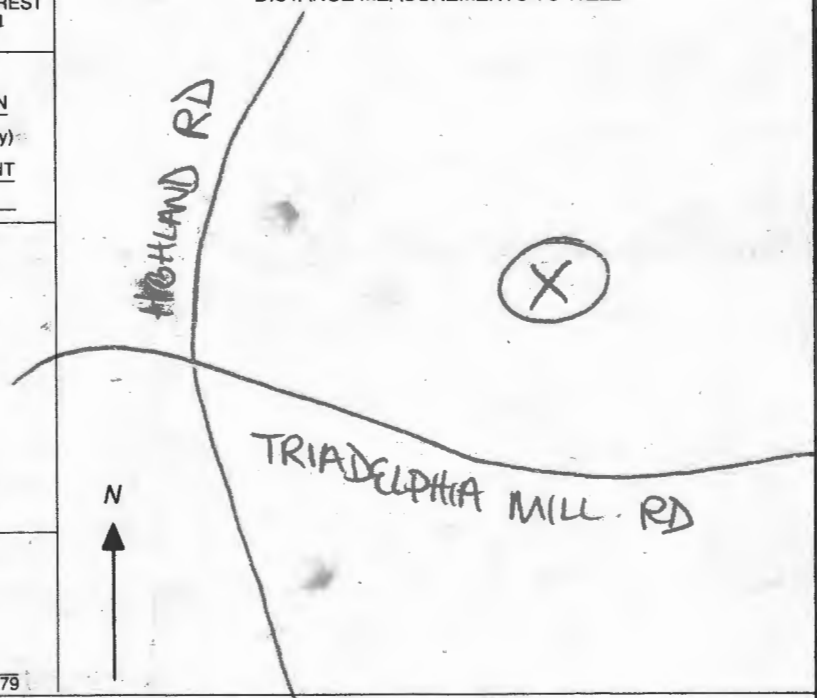
PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEMED (IF AVAILABLE)

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

APPROX. PERMIT NUMBER G

PERMIT No. 140-14-0113

PROPOSED LOCATION OF WELL ON LOT SHOW PERMANENT STRUCTURES SUCH AS BUILDINGS, SEPTIC SYSTEM, ROADS AND/OR LANDMARKS AND INDICATE NOT LESS THAN TWO DISTANCE MEASUREMENTS TO WELL



SPECIAL CONDITIONS

NOTE APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED

vac testing required @ yield test



MICHAEL BARLOW WELL DRILLING & SERVICE, INC.
 522 Underwood Lane Bel Air, Maryland 21014
 (410) 838-6910 Fax (410) 838-3582

WELL YIELD REPORT

Date Test Completed:		December 18, 2014	
Well Depth:		400	feet
Customer	Land Design & Development	Permit #	HO-14-0113
Road	Triadelphia Mill Rd	Subdivision	Jacks Landing
City	Highland	Section	
State	Maryland	Lot #	5

Time	Water Level feet	Time to Fill 1-gallon bucket seconds	G.P.M.
8:00 AM	36	3	20.00
8:15 AM	160	4	15.00
8:30 AM	230	4	15.00
8:45 AM	290	20	3.00
9:00 AM	300	30	2.00
9:15 AM	300	30	2.00
9:30 AM	300	30	2.00
9:45 AM	300	30	2.00
10:00 AM	300	30	2.00
10:15 AM	300	30	2.00
10:30 AM	300	30	2.00
10:45 AM	300	30	2.00
11:00 AM	300	30	2.00
11:15 AM	300	30	2.00
11:30 AM	300	30	2.00
11:45 AM	300	30	2.00
12:00 PM	300	30	2.00
12:15 PM	300	30	2.00
12:30 PM	300	30	2.00
12:45 PM	300	30	2.00
1:00 PM	300	30	2.00
1:15 PM	300	30	2.00
1:30 PM	300	30	2.00
1:45 PM	300	30	2.00
2:00 PM	300	30	2.00
2:15 PM	300	30	2.00
2:30 PM	300	30	2.00
2:45 PM	300	30	2.00
This yield test report is for informational purposes only. Please note the yield may increase or decrease over time and the GPM indicated above is not a guarantee.			

240 gal in 2 hr

36 → 62 = 26 × 1.5 = 39 gal
 62 → 390 = 328 × .65 = 213.2 gal

252.2

Analytical Results

Project: MTBE/VOC

Project Number: E037918
Project Manager: Stephen Shelley

Reported:
12/29/14 10:49

E037918-02 (Lot 5 HO14-0113)

4121912-02 (Water)
Sample Date: 12/18/14

Analyte	Result	Units	Reporting		Prepared	Analyzed	Analyst	Notes
			Limit	Dilution				
VOLATILE ORGANICS BY EPA METHOD 524.2 (GC/MS)								
tert-Amyl alcohol (TAA)	ND	ug/L	10.0	1	12/22/14	12/22/14 13:42	WB	
tert-Amyl methyl ether (TAME)	ND	ug/L	0.50	1	12/22/14	12/22/14 13:42	WB	
Benzene	ND	ug/L	0.50	1	12/22/14	12/22/14 13:42	WB	
Bromobenzene	ND	ug/L	0.50	1	12/22/14	12/22/14 13:42	WB	
Bromochloromethane	ND	ug/L	0.50	1	12/22/14	12/22/14 13:42	WB	
Bromodichloromethane	ND	ug/L	0.50	1	12/22/14	12/22/14 13:42	WB	
Bromoform	ND	ug/L	0.50	1	12/22/14	12/22/14 13:42	WB	
Bromomethane	ND	ug/L	0.50	1	12/22/14	12/22/14 13:42	WB	
tert-Butanol (TBA)	ND	ug/L	10.0	1	12/22/14	12/22/14 13:42	WB	
n-Butylbenzene	ND	ug/L	0.50	1	12/22/14	12/22/14 13:42	WB	
sec-Butylbenzene	ND	ug/L	0.50	1	12/22/14	12/22/14 13:42	WB	
tert-Butylbenzene	ND	ug/L	0.50	1	12/22/14	12/22/14 13:42	WB	
Carbon tetrachloride	ND	ug/L	0.50	1	12/22/14	12/22/14 13:42	WB	
Chlorobenzene	ND	ug/L	0.50	1	12/22/14	12/22/14 13:42	WB	
Chloroethane	ND	ug/L	0.50	1	12/22/14	12/22/14 13:42	WB	
Chloroform	ND	ug/L	0.50	1	12/22/14	12/22/14 13:42	WB	
Chloromethane	ND	ug/L	0.50	1	12/22/14	12/22/14 13:42	WB	
2-Chlorotoluene	ND	ug/L	0.50	1	12/22/14	12/22/14 13:42	WB	
4-Chlorotoluene	ND	ug/L	0.50	1	12/22/14	12/22/14 13:42	WB	
Dibromochloromethane	ND	ug/L	0.50	1	12/22/14	12/22/14 13:42	WB	
1,2-Dibromo-3-chloropropane	ND	ug/L	0.50	1	12/22/14	12/22/14 13:42	WB	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1	12/22/14	12/22/14 13:42	WB	
Dibromomethane	ND	ug/L	0.50	1	12/22/14	12/22/14 13:42	WB	
1,2-Dichlorobenzene	ND	ug/L	0.50	1	12/22/14	12/22/14 13:42	WB	
1,3-Dichlorobenzene	ND	ug/L	0.50	1	12/22/14	12/22/14 13:42	WB	
1,4-Dichlorobenzene	ND	ug/L	0.50	1	12/22/14	12/22/14 13:42	WB	
Dichlorodifluoromethane	ND	ug/L	0.50	1	12/22/14	12/22/14 13:42	WB	
1,1-Dichloroethane	ND	ug/L	0.50	1	12/22/14	12/22/14 13:42	WB	
1,2-Dichloroethane	ND	ug/L	0.50	1	12/22/14	12/22/14 13:42	WB	
1,1-Dichloroethene	ND	ug/L	0.50	1	12/22/14	12/22/14 13:42	WB	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1	12/22/14	12/22/14 13:42	WB	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1	12/22/14	12/22/14 13:42	WB	
1,2-Dichloropropane	ND	ug/L	0.50	1	12/22/14	12/22/14 13:42	WB	
1,3-Dichloropropane	ND	ug/L	0.50	1	12/22/14	12/22/14 13:42	WB	
2,2-Dichloropropane	ND	ug/L	0.50	1	12/22/14	12/22/14 13:42	WB	
1,1-Dichloropropene	ND	ug/L	0.50	1	12/22/14	12/22/14 13:42	WB	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1	12/22/14	12/22/14 13:42	WB	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1	12/22/14	12/22/14 13:42	WB	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Will Brewington, Staff Chemist

Analytical Results

Project: MTBE/VOC

Project Number: E037918
Project Manager: Stephen Shelley

Reported:
12/29/14 10:49

E037918-02 (Lot 5 HO14-0113)

4121912-02 (Water)
Sample Date: 12/18/14

Analyte	Result	Units	Reporting			Prepared	Analyzed	Analyst	Notes
			Limit	Dilution					
VOLATILE ORGANICS BY EPA METHOD 524.2 (GC/MS) (continued)									
Diisopropyl ether (DIPE)	ND	ug/L	0.50	1		12/22/14	12/22/14 13:42	WB	
Ethyl tert-butyl ether (ETBE)	ND	ug/L	0.50	1		12/22/14	12/22/14 13:42	WB	
Ethylbenzene	ND	ug/L	0.50	1		12/22/14	12/22/14 13:42	WB	
Hexachlorobutadiene	ND	ug/L	0.50	1		12/22/14	12/22/14 13:42	WB	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		12/22/14	12/22/14 13:42	WB	
4-Isopropyltoluene	ND	ug/L	0.50	1		12/22/14	12/22/14 13:42	WB	
Methyl tert-butyl ether (MTBE)	4.04	ug/L	0.50	1		12/22/14	12/22/14 13:42	WB	
Methylene chloride	ND	ug/L	0.50	1		12/22/14	12/22/14 13:42	WB	
Naphthalene	ND	ug/L	0.50	1		12/22/14	12/22/14 13:42	WB	
n-Propylbenzene	ND	ug/L	0.50	1		12/22/14	12/22/14 13:42	WB	
Styrene	ND	ug/L	0.50	1		12/22/14	12/22/14 13:42	WB	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		12/22/14	12/22/14 13:42	WB	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		12/22/14	12/22/14 13:42	WB	
Tetrachloroethene	ND	ug/L	0.50	1		12/22/14	12/22/14 13:42	WB	
Toluene	ND	ug/L	0.50	1		12/22/14	12/22/14 13:42	WB	
1,2,3-Trichlorobenzene	ND	ug/L	0.50	1		12/22/14	12/22/14 13:42	WB	
1,2,4-Trichlorobenzene	ND	ug/L	0.50	1		12/22/14	12/22/14 13:42	WB	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		12/22/14	12/22/14 13:42	WB	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		12/22/14	12/22/14 13:42	WB	
Trichloroethene	ND	ug/L	0.50	1		12/22/14	12/22/14 13:42	WB	
Trichlorofluoromethane (Freon 11)	ND	ug/L	0.50	1		12/22/14	12/22/14 13:42	WB	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		12/22/14	12/22/14 13:42	WB	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		12/22/14	12/22/14 13:42	WB	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		12/22/14	12/22/14 13:42	WB	
Vinyl chloride	ND	ug/L	0.50	1		12/22/14	12/22/14 13:42	WB	
o-Xylene	ND	ug/L	0.50	1		12/22/14	12/22/14 13:42	WB	
m- & p-Xylenes	ND	ug/L	0.50	1		12/22/14	12/22/14 13:42	WB	
Surrogate: 4-Bromofluorobenzene		80-120	88 %			12/22/14	12/22/14 13:42		
Surrogate: 1,2-Dichlorobenzene-d4		80-120	90 %			12/22/14	12/22/14 13:42		

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Will Brewington, Staff Chemist



1500 Caton Center Dr Suite G
Baltimore MD 21227
410-247-7600
www.mdspectral.com

Reported:
12/29/14 10:49

Analytical Results

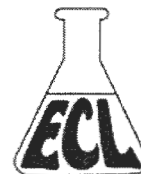
Project: MTBE/VOC

Project Number: E037918
Project Manager: Stephen Shelley

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference

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: 06/01/2015
Report Number: 150601105515

LAB#- E039578-04 SAMPLE ID- Lot 5 WELL # HO 14-0113
LOCATION- SAMPLER- M Dixon
DATE SAMPLED- 05/21/2015 TIME SAMPLED- 12:30 Residual Chlorine-
DATE RECEIVED- 05/21/2015 TIME RECEIVED- 14:28
DELIVERED BY- M Dixon RECEIVED BY- Stephen Shelley
COMMENTS-

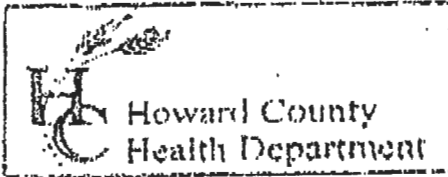
COMMENTS-

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT	DATA FLAG
Metals by Enviro-Chem					
*! Sodium	EPA 200.7	05/29/15 09:33	CHK	33.9	mg/L
Wet Chemistry by Enviro-Chem					
\$ Chloride	EPA 300.0	05/22/15 15:35	EJF	292	mg/L
\$ Dissolved Solids	SM 2540C	05/22/15 13:10	SES	1130	mg/L

Stephen Shelley
Laboratory Director

Certifications

- State of Maryland Certification #192
* - NELAP Certification 68-04873
! - VELAP Certification 460255
\$ - Not a certified Analyte



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

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

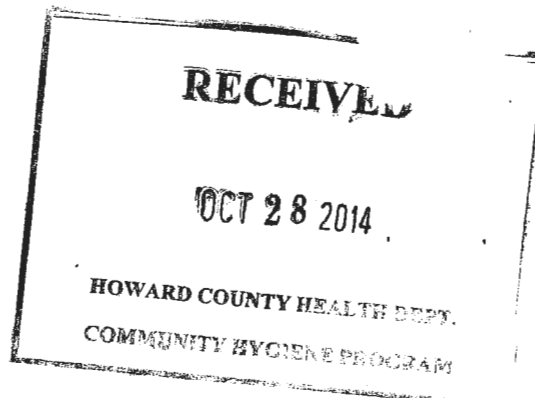
TO ALL INTERESTED PARTIES

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

- JACKS LANDING Lots 1-8 + Parcel A
- The well site has been staked by Robert Vogel Engineering,
 (professional land surveyor or company employing professional land surveyors)
 on 10/29/2014 (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.









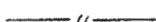




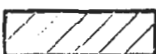



Revised 6/10/03



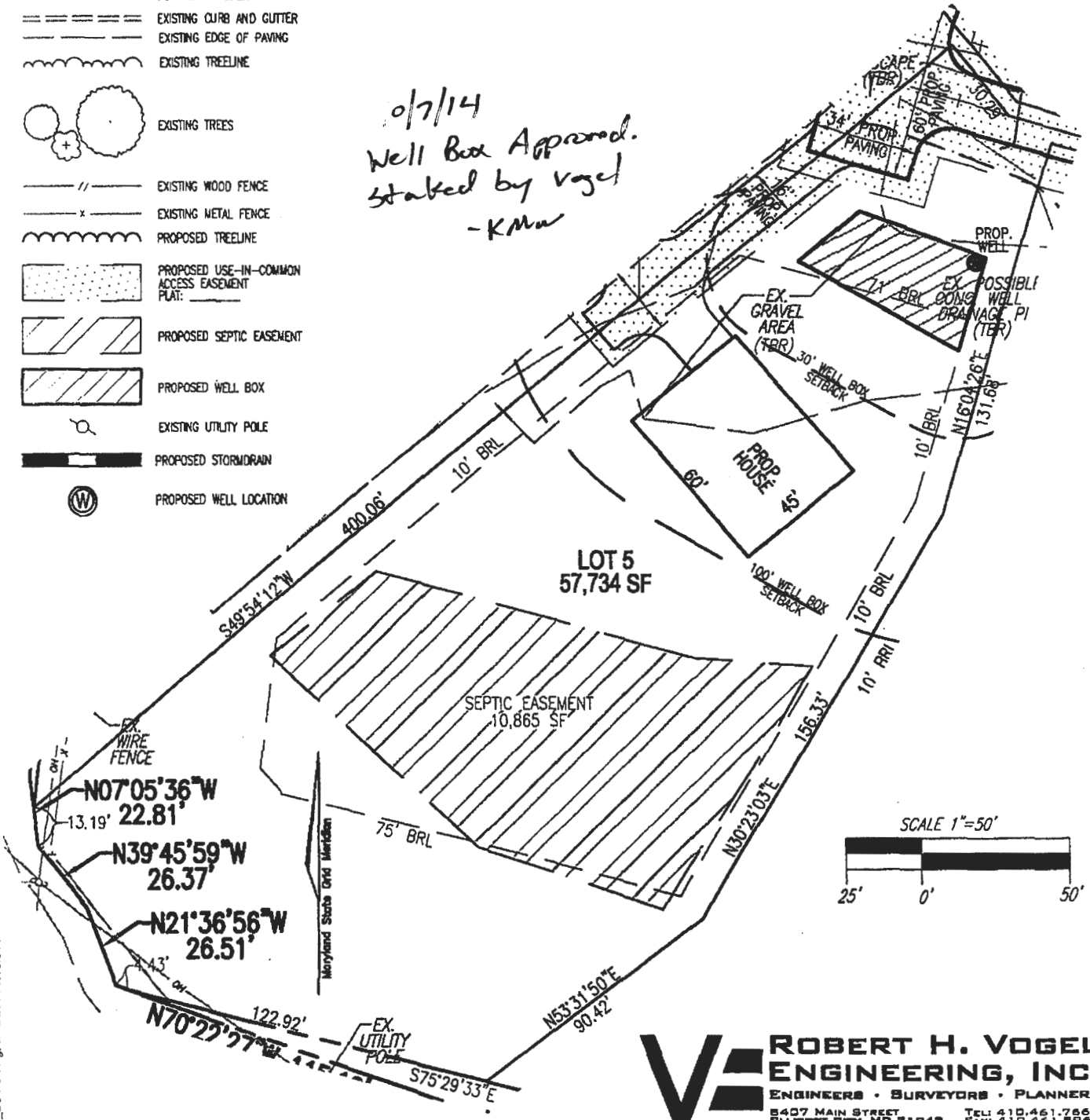


525

LEGEND:

-  PROPERTY LINE
-  EXISTING RIGHT-OF-WAY LINE
-  PROPOSED RIGHT-OF-WAY LINE
-  ADJACENT PROPERTY LINE
-  EXISTING CURB AND GUTTER
-  EXISTING EDGE OF PAVING
-  EXISTING TREELINE
-  EXISTING TREES
-  EXISTING WOOD FENCE
-  EXISTING METAL FENCE
-  PROPOSED TREELINE
-  PROPOSED USE-IN-COMMON ACCESS EASEMENT PLAT
-  PROPOSED SEPTIC EASEMENT
-  PROPOSED WELL BOX
-  EXISTING UTILITY POLE
-  PROPOSED STORMDRAIN
-  PROPOSED WELL LOCATION

0/7/14
Well Box Approved.
Staked by Vogel
-KMa



ROBERT H. VOGEL
ENGINEERING, INC.
ENGINEERS • SURVEYORS • PLANNERS
2407 MAIN STREET ELLSDOTT CITY, MD 21043 TEL: 410.461.7866 FAX: 410.461.8961

K:\Projects\13-31\EN\Drawings\WELL EXHIBIT LOT 5.dwg, 8/12/2014 9:18:31 AM

SCALE: 1"=50'
DRAWN BY: JMR
CHECKED BY: RHV
DATE: MARCH 2014
W. O. #: 13-31
SHEET #: 1 OF 1

WELL EXHIBIT - LOT 5
JACK'S LANDING
LOTS 1-8, BUILDABLE PRESERVATION PARCEL A,
AND NON-BUILDABLE PRESERVATION PARCEL B
A SUBDIVISION OF TAX MAP 34
PARCEL 414 (L. 3172 / F. 336)

TAX MAP 34 BLOCK 03
5TH ELECTION DISTRICT

PARCEL 414
ZONED RR-DEO
HOWARD COUNTY, MARYLAND

INTERIM CERTIFICATE OF POTABILITY

Expiration Date – DECEMBER 9, 2020

June 9, 2020

Homeowner
5521 Jacks Landing Way
Clarksville, MD 21029

RE: Jacks Landing, Lot 5
5521 Jacks Landing Way
Building Permit: B19003991
Well Permit: HO-14-0113

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 **6/2/2020**. Final approval of the well line connection to the dwelling was granted on **4/15/2020**. The well construction was completed on **1/6/2015**. Water samples were collected on **6/2/2020**.

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-14-0113. 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 Environment's website which describes in further detail operation and maintenance of your septic system.

Approving Authority,

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

HOME LAND LABS

9106 Philadelphia Road, Suite 106
 Rosedale, MD 21237
 Phone 443.505.8375
 lab@homelandhealthyhomes.com
 State Certified Water Quality Lab 353

108 Old Solomons Island Road, Suite 12
 Annapolis, MD 21401
 Phone 443.505.8375
 lab@homelandhealthyhomes.com
 State Certified Water Quality Lab 106

3430 Rockefeller Court
 Waldorf, MD 20602
 Phone 443.505.8375
 lab@homelandhealthyhomes.com
 State Certified Water Quality Lab 139

Certificate of Analysis

Report Date: 6/4/2020

Client: Well Water Solutions, Inc.
 Property Address: 5521 Jacks Landing
 Clarksville, MD 21029

Report No: 186814
 Sample Time: 06/02/20 15:00
 Date & Time Received: 06/03/20 10:10
 Sampled By: John Moseman 6128JM (Exp. 3/14/2022)
 Preservation: Ice
 Sample Point(s): Well/Raw
 Water Conditioning Appears to be: None

Chlorine Residual: 0.0
 Field pH: 5.6
 Well Type: Drilled
 Well Height: 3'
 Cap Type: 1-piece
 Casing: PVC
 Conduit: PVC
 Clarity: Clear
 Sand: None Observed
 Well Tag Number: HO-14-0113

Primary Contaminants								
Parameter	Method	Result	Pass/Fail	Units	MCL	RL	Analyst	Date of Analysis
Bacteria-Total Coliform	Colitag Test	Absent	Pass	Per/100ml	Present	1	AND-353	06/04/2020
Bacteria-E.coli	Colitag Test	Absent	Pass	Per/100ml	Present	1	AND-353	06/04/2020
Nitrate + Nitrite as N	EPA 353.2	2.4	Pass	mg/l	10	0.5	MAK-353	06/03/2020
Secondary Contaminants								
Parameter	Method	Result	Acceptable /High	Units	SMCL	RL	Analyst	Date of Analysis
Turbidity	EPA 180.1	7.7	Acceptable	NTU	10	0.5	MAK-353	06/03/2020

Note: Building Permit 19003991

Approved By Kevin Barnaba Kevin Barnaba, Lab Director

Chain of Custody Form

HOME LAND LABS



186814 Date Due: 6/5/202
Client: Well Water Solutions, Inc.
Project:

9106 Philadelphia Road, Suite 106
Rosedale, MD 21237
(443) 505-8375
MD Lab # 353

108 Old Solomons Island Road, Suite L2
Annapolis, MD 21401
(410) 224-4304
MD Lab # 106

3430 Rockefeller Court
Waldorf, MD 20602
(410) 224-4304
MD Lab # 139

Client Name: WWS

Email Address: _____

Phone Number: _____

Property Address:
5521 JACKS LANDING
CLANKSVILLE MD 21029

Field Collection Information

Sampler Name: John Moseman

Sampler ID #: 0189JM 3/22

Date and Time Sampled: 6/2 3:00

Well Tag Number: HO 14-0113

Field pH: 8.6

Field Chlorine (mg/L): NONE

Sand: ABSENT

Clarity: CLEAR

Well Casing and Cap Condition

Height Above Grade: 3FT Cap Type: 1 piece Casing: PVC Conduit: PVC

Sample Point: WELL / RAW Water Conditioning: NONE

Requested Testing: (Please check all that apply)

BUILDING PERMIT 19003991

- Potability (Bacteria, Nitrates, pH, Turbidity)
- FHA/VA (Bacteria, Nitrates, Nitrites, pH, Turbidity, Lead and Iron)
- Bacteria
- Lead
- Nitrates
- Iron
- Gross Alpha
- Saltwater Intrusion
- Arsenic
- Cadmium
- Fluoride
- Pesticides
- VOC
- Hardness
- Other: _____
- Other: _____
- Other: _____
- Other: _____
- Other: _____
- Other: _____

List rush samples below
Refer to table for rush turnaround times and fees

Release Signatures

Released By: [Signature] Date/Time: 6/2 3:00

Released By: [Signature] Date/Time: 6/3 8:00

Released By: [Signature] Date/Time: 6/3/20 10:10

Received in lab by: [Signature] Date/Time: 6/3/20 10:10am