

C1 34933

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 PUNCHED IN COLS. 3-6 ON ALL CARDS)

COUNTY NUMBER

ST/CO USE ONLY

DATE WELL COMPLETED

Depth of Well

PERMIT NO. FROM "PERMIT TO DRILL WELL"

DATE RECEIVED MM DD YY

DATE WELL COMPLETED MM DD YY

DEPTH OF WELL (TO NEAREST FOOT)

PERMIT NO. FROM "PERMIT TO DRILL WELL"

OWNER, WELL SITE ADDRESS, TOWN, SUBDIVISION, SECTION, LOT

WELL LOG

Not required for driven wells

GROUTING RECORD

WELL HAS BEEN GROUTED, TYPE OF GROUTING MATERIAL, CEMENT, BENTONITE CLAY, NO. OF BAGS, NO. OF POUNDS, GALLONS OF WATER, DEPTH OF GROUT SEAL

C 3

PUMPING TEST

HOURS PUMPED, PUMPING RATE, METHOD USED TO MEASURE PUMPING RATE, WATER LEVEL, TYPE OF PUMP USED

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

Table with columns: DESCRIPTION, FEET (FROM, TO), check if water bearing. Contains handwritten entries for Well #1-6.

CASING RECORD: casing types insert appropriate code below, MAIN CASING TYPE, Nominal diameter, Total depth

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

SCREEN RECORD: screen type or open hole, insert appropriate code below, DEPTH (nearest ft.)

NUMBER OF UNSUCCESSFUL WELLS:

WELL HYDROFRACTURED

CIRCLE APPROPRIATE LETTER: A WELL WAS ABANDONED AND SEALED, 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...

DRILLERS LIC. NO. M D 355

DRILLERS SIGNATURE, DRILLERS SIGNATURE ON APPLICATION, LIC. NO. AW 920

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

Table with columns: E A C H S R E E N, 1 2 3, 8 9 11, 15 17, 21, 23 24 26, 30 32, 36, 38 39 41, 45 47, 51. Includes SLOT SIZE and DIAMETER OF SCREEN.

GRAVEL PACK IF WELL DRILLED WAS FLOWING WELL INSERT F IN BOX 88

MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER) T (E.R.O.S.) W Q, TELESCOPE CASING, LOG INDICATOR, OTHER DATA

PUMP INSTALLED: DRILLER INSTALLED PUMP (CIRCLE) (YES or 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)

PUMP HORSE POWER

PUMP COLUMN LENGTH (nearest ft.)

CASING HEIGHT (circle appropriate box and enter casing height) LAND SURFACE (nearest foot)

LATITUDE 39.21592, LONGITUDE 76.97411 (DEFAULT COORD. WGS 84)

Pursuant to §10-624 of the State Govt. Article of the Maryland Code personal info. requested on this form is used in processing this form pursuant to COMAR 26.04.04. Failure to provide the info. may result in this form not being processed.

B 1 28751

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL

STATE PERMIT NUMBER

HO-14-0116

5545958 please type

Date Received (APA)

08 22 14

OWNER INFORMATION

LAND DESIGN + DEVELOPMENT

5300 PORSEY HALL DRIVE, SUITE 102

ELLICOTT CITY MD 21043

B 3

LOCATION OF WELL

HOWARD COUNTY

JACK'S LANDING

SECTION 44 46 LOT 48 50

HIGHLAND NEAREST TOWN

DRILLER INFORMATION

MICHAEL BARLOW MW 0355

BARLOW WELL DRILLING

522 UNDERWOOD LANE 21014

Signature Date 8/18/14

B 4

SOURCES OF DRILLING WATER

1. Well

TRIAD ELPHIA MILL RD

ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)

300 FT

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 A517922 13

STATE SIGNATURE INSERT S

DATE ISSUED 10/20/14

CO SIGNATURE EXP. DATE 10/20/15

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 250 FEET

APPROXIMATE DIAMETER OF WELL 6 NEAREST INCH

METHOD OF DRILLING (circle one)

- BORED (or Augered) JETTED Jettied & DRIVEN
AIR-ROTARY AIR-PERCussion ROTARY (Hydraulic Rotary)
CABLE REVERSE-ROTARY DRIVE-POINT
other

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)

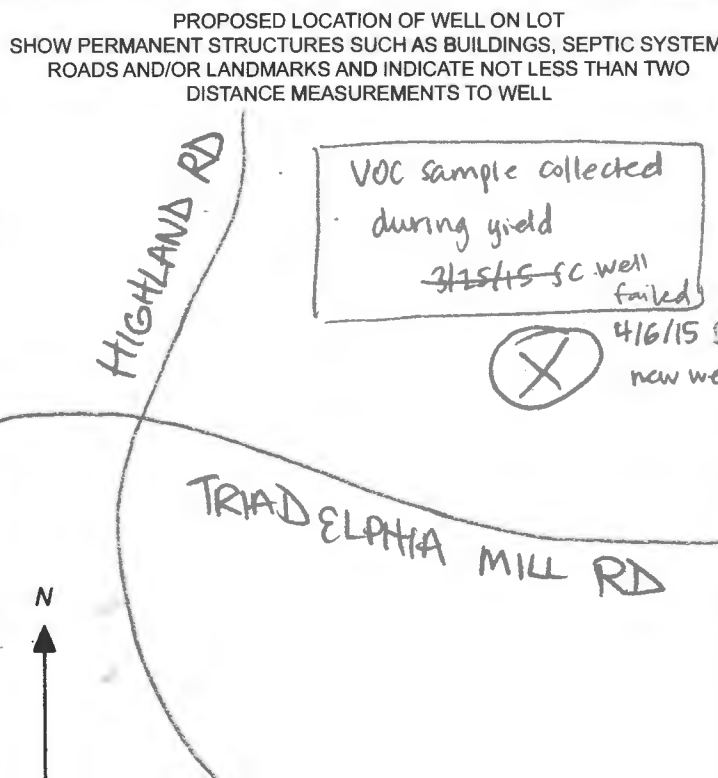
APPROX. PERMIT NUMBER G

PERMIT No. HO-14-0116

SPECIAL CONDITIONS

NOTE APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED

VOC testing required @ field test



\*\*\*\*\*  
 WATER WELL ABANDONMENT-SEALING REPORT FORM  
 \*\*\*\*\*

SUBMIT COPIES OF COMPLETED FORM TO:

- \* COUNTY ENVIRONMENTAL AGENCY (contact MDE, WMA if address needed)
- \* WELL OWNER
- \* MDE, WATER MANAGEMENT ADMINISTRATION, WELL PROGRAM

OK  
 9/27/16

DATE WELL ABANDONED: 9-26-16 (month/day/year)

\* PERMIT NUMBER OF ABANDONED WELL (if any)

HO-14-0116

\* PERMIT NUMBER OF REPLACEMENT WELL:

\* PERSON ABANDONING WELL: Michael Barlow WELL DRILLER'S LICENSE NUMBER: 355

CIRCLE MWD / MSD / MGD

\* OWNER'S NAME: Land Design + Development

SITE LOCATION MAP

\* WELL LOCATION:  
 COUNTY: Howard  
 NEAREST TOWN: Highland  
 TAX MAP 34 BLOCK PARCEL 414  
 SUBDIVISION: JACKS LANDING  
 SECTION: LOT 8  
 STREET ADDRESS: Tr. Alpha M. II Rd



LATITUDE 39.21592

LONGITUDE 76.97411

LOG OF SEALING MATERIAL

MATERIAL	FEET	
	FROM	TO
<u>Cement</u>	<u>565</u>	<u>0</u>
VOLUME OF MATERIAL USED		

\* TYPE OF WELL BEING ABANDONED:

- DRILLED  JETTED
- BORED  HAND DUG
- OTHER (specify) \_\_\_\_\_

\* USE CODE:

- DOMESTIC  MUNICIPAL/PUBLIC
- IRRIGATION  INDUSTRIAL
- TEST/OBSERVATION  GEOTHERMAL

\* TYPE OF CASING:

- STEEL  PLASTIC
- CONCRETE  OTHER (specify) \_\_\_\_\_

SIZE OF CASING: 6 INCHES IN DIAMETER

DEPTH OF WELL: 565 FEET DEEP

WAS ANY CASING REMOVED?  YES  NO

If yes, length removed, in feet: \_\_\_\_\_

WAS CASING RIPPED OR PERFORATED?  YES  NO

Pursuant to § 10-624 of the State Govt. Article of the Maryland Code, personal info requested on this form is used in processing this form pursuant to COMAR 26.04.04. Failure to provide the info may result in this form not being processed. You have the right to inspect, amend, or correct this form. The Maryland Department of the Environment is subject to the Maryland Public Information Act. This form may be made available on the Internet via MDE's website and is subject to inspection or copying, in whole or in part, by the public and other governmental agencies, if not protected by federal or State Law.

SIGNATURE-MASTER WELL DRILLER OR SUPERVISING SANITARIAN LICENSE#

355

MWD / MSD / MGS

CIRCLE ONE

9/27/16

DATE

COUNTY



## Certificate of Analysis

HOWARD CO ENVIRONMENTAL HLTH  
 8930 STANFORD BLVD  
 COLUMBIA, MD 21045

Lab. No: E15003162001

Method: EPA 524.2 VOCs and THMs

Lot 8

Date Received: 04/07/2015  
 Field ID: HO140116-1/2

Date Collected: 04/06/2015  
 Submitted By: S.COLLINS

Date Analyzed: 04/13/2015

Contaminant	RL	MCL	Result	Contaminant	RL	MCL	Result
<b>REGULATED</b>				2-Chlorotoluene	0.5		ND
1,1,1-Trichloroethane	0.5	200	ND	4-Chlorotoluene	0.5		ND
1,1,2-Trichloroethane	0.5	5	ND	Bromobenzene	0.5		ND
1,1-Dichloroethane	0.5	7	ND	Bromochloromethane	0.5		ND
1,2,4-Trichlorobenzene	0.5	70	ND	Bromomethane	0.5		ND
1,2-Dichlorobenzene	0.5	600	ND	Chloroethane	0.5		ND
1,2-Dichloroethane	0.5	5	ND	Chloromethane	0.5		ND
1,2-Dichloropropane	0.5	5	ND	cis-1,3-Dichloropropene	0.5		ND
1,4-Dichlorobenzene	0.5	75	ND	Dibromomethane	0.5		ND
Benzene	0.5	5	ND	Dichlorodifluoromethane	0.5		ND
Carbon Tetrachloride	0.5	5	ND	Ethyl-tert-Butyl Ether (ETBE)	0.5		ND
Chlorobenzene	0.5	100	ND	Hexachlorobutadiene	0.5		ND
cis-1,2-Dichloroethane	0.5	70	ND	Isopropylbenzene	0.5		ND
Ethylbenzene	0.5	700	ND	Methyl-tert-Butyl Ether (MTBE)	0.5		17.82
m+p-Xylene	1.0		ND	Naphthalene	0.5		ND
Methylene Chloride	0.5	5	ND	n-Butylbenzene	0.5		ND
o-Xylene	0.5		ND	n-Propylbenzene	0.5		ND
Styrene	0.5	100	ND	p-Isopropyltoluene	0.5		ND
Tetrachloroethene	0.5	5	ND	sec-Butylbenzene	0.5		ND
Toluene	0.5	1000	ND	tert-Amyl Methyl Ether (TAME)	0.5		3.40
Total Xylenes	1.5	10000	ND	tert-Butylbenzene	0.5		ND
trans-1,2-Dichloroethene	0.5	100	ND	trans-1,3-Dichloropropene	0.5		ND
Trichloroethene	0.5	5	ND	Trichlorofluoromethane	0.5		ND
Vinyl Chloride	0.5	2	ND				
<b>TRIHALOMETHANES</b>							
Bromodichloromethane	0.5		ND				
Bromoform	0.5		ND				
Chloroform	0.5		ND				
Dibromochloromethane	0.5		ND				
TOTAL THMs		80	0.00				
<b>UNREGULATED</b>							
1,1,1,2-Tetrachloroethane	0.5		ND				
1,1,2,2-Tetrachloroethane	0.5		ND				
1,1-Dichloroethane	0.5		ND				
1,1-Dichloropropene	0.5		ND				
1,2,3-Trichlorobenzene	0.5		ND				
1,2,3-Trichloropropane	0.5		ND				
1,2,4-Trimethylbenzene	0.5		ND				
1,2-Dibromo-3-Chloropropane	0.5		ND				
1,2-Dibromoethane	0.5		ND				
1,3,5-Trimethylbenzene	0.5		ND				
1,3-Dichlorobenzene	0.5		ND				
1,3-Dichloropropane	0.5		ND				
2,2-Dichloropropane	0.5		ND				

**Comments:**

Approved by:

Approval date:

*Sandra M. ...*

04/15/2015

\*All results are in parts per billion (ppb); ND = Less than the detection level; na = not applicable; e = estimate

This document contains confidential health information that is privileged, confidential and exempt from disclosure under law. If you have received this information in error, please call (410) 767-6648 and arrange for return or destruction.

Telephone: (410) 767-6648 Fax: (410) 225-2451



## Certificate of Analysis

HOWARD CO ENVIRONMENTAL HLTH  
 8930 STANFORD BLVD  
 COLUMBIA, MD 21045

Lab. No: E15003162002

Method: EPA 524.2 VOCs and THMs

Date Received: 04/07/2015  
 Field ID: HO140116T

Date Collected: 04/06/2015  
 Submitted By: S.COLLINS

Date Analyzed: 04/13/2015

<u>Contaminant</u>	<u>RL</u>	<u>MCL</u>	<u>Result</u>	<u>Contaminant</u>	<u>RL</u>	<u>MCL</u>	<u>Result</u>
<b>REGULATED</b>				2-Chlorotoluene	0.5		ND
1,1,1-Trichloroethane	0.5	200	ND	4-Chlorotoluene	0.5		ND
1,1,2-Trichloroethane	0.5	5	ND	Bromobenzene	0.5		ND
1,1-Dichloroethene	0.5	7	ND	Bromochloromethane	0.5		ND
1,2,4-Trichlorobenzene	0.5	70	ND	Bromomethane	0.5		ND
1,2-Dichlorobenzene	0.5	600	ND	Chloroethane	0.5		ND
1,2-Dichloroethane	0.5	5	ND	Chloromethane	0.5		ND
1,2-Dichloropropane	0.5	5	ND	cis-1,3-Dichloropropene	0.5		ND
1,4-Dichlorobenzene	0.5	75	ND	Dibromomethane	0.5		ND
Benzene	0.5	5	ND	Dichlorodifluoromethane	0.5		ND
Carbon Tetrachloride	0.5	5	ND	Ethyl-tert-Butyl Ether (ETBE)	0.5		ND
Chlorobenzene	0.5	100	ND	Hexachlorobutadiene	0.5		ND
cis-1,2-Dichloroethene	0.5	70	ND	Isopropylbenzene	0.5		ND
Ethylbenzene	0.5	700	ND	Methyl-tert-Butyl Ether (MTBE)	0.5		ND
m+p-Xylene	1.0		ND	Naphthalene	0.5		ND
Methylene Chloride	0.5	5	ND	n-Butylbenzene	0.5		ND
o-Xylene	0.5		ND	n-Propylbenzene	0.5		ND
Styrene	0.5	100	ND	p-Isopropyltoluene	0.5		ND
Tetrachloroethene	0.5	5	ND	sec-Butylbenzene	0.5		ND
Toluene	0.5	1000	ND	tert-Amyl Methyl Ether (TAME)	0.5		ND
Total Xylenes	1.5	10000	ND	tert-Butylbenzene	0.5		ND
trans-1,2-Dichloroethene	0.5	100	ND	trans-1,3-Dichloropropene	0.5		ND
Trichloroethene	0.5	5	ND	Trichlorofluoromethane	0.5		ND
Vinyl Chloride	0.5	2	ND				
<b>TRihalOMETHANES</b>							
Bromodichloromethane	0.5		ND				
Bromoform	0.5		ND				
Chloroform	0.5		ND				
Dibromochloromethane	0.5		ND				
TOTAL THMs		80	0.00				
<b>UNREGULATED</b>							
1,1,1,2-Tetrachloroethane	0.5		ND				
1,1,2,2-Tetrachloroethane	0.5		ND				
1,1-Dichloroethane	0.5		ND				
1,1-Dichloropropene	0.5		ND				
1,2,3-Trichlorobenzene	0.5		ND				
1,2,3-Trichloropropane	0.5		ND				
1,2,4-Trimethylbenzene	0.5		ND				
1,2-Dibromo-3-Chloropropane	0.5		ND				
1,2-Dibromoethane	0.5		ND				
1,3,5-Trimethylbenzene	0.5		ND				
1,3-Dichlorobenzene	0.5		ND				
1,3-Dichloropropane	0.5		ND				
2,2-Dichloropropane	0.5		ND				

**Comments:**

Approved by:

Approval date:

*Sadie Alvarado*

04/15/2015

\*All results are in parts per billion (ppb); ND = Less than the detection level; na = not applicable; e = estimate

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## Certificate of Analysis

HOWARD CO ENVIRONMENTAL HLTH  
 8930 STANFORD BLVD  
 COLUMBIA, MD 21045

Lab. No: E15003162003

Method: EPA 524.2 VOCs and THMs

Date Received: 04/07/2015  
 Field ID: HO140116F1/2

Date Collected: 04/06/2015  
 Submitted By: S.COLLINS

Date Analyzed: 04/13/2015

<u>Contaminant</u>	<u>RL</u>	<u>MCL</u>	<u>Result</u>	<u>Contaminant</u>	<u>RL</u>	<u>MCL</u>	<u>Result</u>
<b>REGULATED</b>				2-Chlorotoluene	0.5		ND
1,1,1-Trichloroethane	0.5	200	ND	4-Chlorotoluene	0.5		ND
1,1,2-Trichloroethane	0.5	5	ND	Bromobenzene	0.5		ND
1,1-Dichloroethene	0.5	7	ND	Bromochloromethane	0.5		ND
1,2,4-Trichlorobenzene	0.5	70	ND	Bromomethane	0.5		ND
1,2-Dichlorobenzene	0.5	600	ND	Chloroethane	0.5		ND
1,2-Dichloroethane	0.5	5	ND	Chloromethane	0.5		ND
1,2-Dichloropropane	0.5	5	ND	cis-1,3-Dichloropropene	0.5		ND
1,4-Dichlorobenzene	0.5	75	ND	Dibromomethane	0.5		ND
Benzene	0.5	5	ND	Dichlorodifluoromethane	0.5		ND
Carbon Tetrachloride	0.5	5	ND	Ethyl-tert-Butyl Ether (ETBE)	0.5		ND
Chlorobenzene	0.5	100	ND	Hexachlorobutadiene	0.5		ND
cis-1,2-Dichloroethene	0.5	70	ND	Isopropylbenzene	0.5		ND
Ethylbenzene	0.5	700	ND	Methyl-tert-Butyl Ether (MTBE)	0.5		ND
m+p-Xylene	1.0		ND	Naphthalene	0.5		ND
Methylene Chloride	0.5	5	ND	n-Butylbenzene	0.5		ND
o-Xylene	0.5		ND	n-Propylbenzene	0.5		ND
Styrene	0.5	100	ND	p-Isopropyltoluene	0.5		ND
Tetrachloroethene	0.5	5	ND	sec-Butylbenzene	0.5		ND
Toluene	0.5	1000	ND	tert-Amyl Methyl Ether (TAME)	0.5		ND
Total Xylenes	1.5	10000	ND	tert-Butylbenzene	0.5		ND
trans-1,2-Dichloroethene	0.5	100	ND	trans-1,3-Dichloropropene	0.5		ND
Trichloroethene	0.5	5	ND	Trichlorofluoromethane	0.5		ND
Vinyl Chloride	0.5	2	ND				
<b>TRIHALOMETHANES</b>							
Bromodichloromethane	0.5		ND				
Bromoform	0.5		ND				
Chloroform	0.5		ND				
Dibromochloromethane	0.5		ND				
TOTAL THMs		80	0.00				
<b>UNREGULATED</b>							
1,1,1,2-Tetrachloroethane	0.5		ND				
1,1,2,2-Tetrachloroethane	0.5		ND				
1,1-Dichloroethane	0.5		ND				
1,1-Dichloropropene	0.5		ND				
1,2,3-Trichlorobenzene	0.5		ND				
1,2,3-Trichloropropane	0.5		ND				
1,2,4-Trimethylbenzene	0.5		ND				
1,2-Dibromo-3-Chloropropane	0.5		ND				
1,2-Dibromoethane	0.5		ND				
1,3,5-Trimethylbenzene	0.5		ND				
1,3-Dichlorobenzene	0.5		ND				
1,3-Dichloropropane	0.5		ND				
2,2-Dichloropropane	0.5		ND				

**Comments:**

Approved by: Sadia Hussain Approval date: 04/15/2015

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State of Maryland  
DHMH-Laboratories Administration  
Division of Environmental Chemistry  
**TRACE METALS LABORATORY**  
201 W. Preston Street, Baltimore, Maryland 21201  
Robert Myers, Ph.D., Director



## Certificate of Analysis

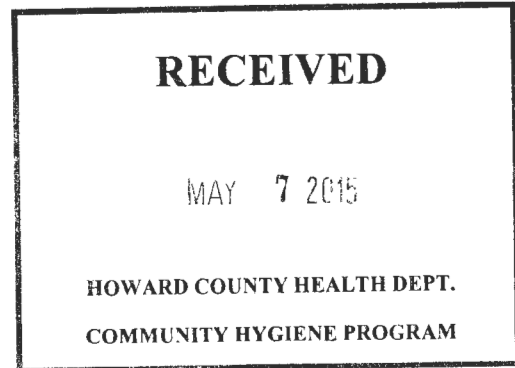
HOWARD CO ENVIRONMENTAL HLTH  
8930 STANFORD BLVD  
COLUMBIA, MD 21045

Lab Project No: E15003148    Date Coll.: 04/06/2015    Date Received: 04/07/2015    Submitted By: Collins

Field ID: HO-14-0116  
Lab No.: E15003148001

<u>Method</u>	<u>Element</u>	<u>Result</u>	<u>Units</u>	<u>Date Analyzed</u>
EPA 200.7	Sodium	11.64	ppm	04/13/2015

Lot 8



**Comments:**

Approved by: Sadia Muneer

Approval date: 04/15/2015

\*\*The following methods are included in our A2LA Scope of Accreditation: EPA 200.7, EPA 200.8, EPA 245.1.

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Send Report To: Bert Nixon

State of Maryland  
DHMH - Laboratories Administration  
Division of Environmental Chemistry  
**ENVIRONMENTAL METALS SECTION**  
201 W. Preston Street, Baltimore, Maryland 21201

  
**E15003148001**  
Received: 04/07/2015 EPA 200.7  
Metals HO-14-0116

Howard County Health Dept  
Bureau of Environmental Health  
8930 Stanford Blvd.

Columbia, M.D 21045

Do not write above this line

**LABORATORY ANALYSIS REQUEST**  
Please Print

Sample ID No: HO-14-0116 Site Name: Jack's Landing - Lot B County: Howard

Sample Source: Triadelphia Mill Rd. Highland Collector: S Collins  
Street Town or City Name

Date Collected: 4/6/2015 Time Collected: 12:30 a.m. 12:30 p.m. Phone #: 410-313-6287

Sample Preserved By:  Field  ESRL  Central Lab  
*2.5 mL of H<sub>2</sub>O<sub>3</sub> added in lab (287 M04B) p4 15-04-00*

Preservative Used:  HNO<sub>3</sub>

Sample Type:  Drinking Water  Landfill  Source (Raw Water)  Liquid  
 Community  Stream  Distribution (Treated)  Solid  
 Non-Community  Sediment  Other \_\_\_\_\_  
 Private

Specify Program:  SDWA  NPDES  CWA  RCRA  Consumer Products  Other \_\_\_\_\_

Type of Sample Preparation:  Total Metals  Total Metals TCLP  Dissolved Metals  
(field preparation required)

Remarks: Sample taken during yield test

✓	Element	Results (ppm)	✓	Element	Results (ppm)
	Antimony (Sb)			Copper (Cu)	
	Arsenic (As)			Lead (Pb)	
	Barium (Ba)			Silver (Ag)	
	Beryllium (Be)			Zinc (Zn)	
	Cadmium (Cd)			Aluminum (Al)	
	Chromium (Cr)			Iron (Fe)	
	Mercury (Hg)			Manganese (Mn)	
	Nickel (Ni)			Calcium (Ca)	
	Selenium (Se)			Magnesium (Mg)	
✓	Sodium (Na)	11.6		Potassium (K)	
	Thallium (Tl)			Uranium (U)	

**RECEIVED**

Lab Supervisor: Sadia Munem

Date Reported: MAY 7 2015

•Phone: (410) 767 - 6186

•Fax: (410) 333 - 5122

DHMH 4432 (7/10)

SUBMITTER'S COPY

HOWARD COUNTY HEALTH DEPT.  
COMMUNITY HYGIENE PROGRAM

Send Report To: Bert Nixon  
Howard County Health Dept.  
Bureau of Environmental Health  
8930 Stanford Blvd.  
Columbia, MD 21045

State of Maryland  
DHMH - Laboratories Administration  
Division of Environmental Chemistry  
**TRACE ORGANICS SECTION**  
201 W. Preston Street, Baltimore, Maryland 21201  
John M. DeBoy, Dr. P.H., Director

Lab No. Date Received

Do not write above this line

### LABORATORY ANALYSIS REQUEST

Bottle No: H0140116-1 Plant / Site Name: Jack's Landing - Lot B County: Howard  
H0140116-2

Sample Source: Triadelphia Mill Rd. Highland Location: H0-14-0116  
Street Town or City (well no., lab sink, sample tap, etc.)

Sampler ID: 3406SC PWSID:  Plant ID:

Collector: S. Collins 410-313-6287  
(include telephone number)

Date Collected: 4 / 6 / 2015 Time Collected: 12:30 a.m. 12:30 p.m.

Field Preserved:  Yes  No Preservative Used:  1:1 HCl+Ascorbic acid  Na<sub>2</sub>SO<sub>4</sub>  6 mg NH<sub>4</sub>Cl

Sample Type:  Drinking Water  Landfill  Source (Raw Water)  Liquid  
 Community  Stream  Distribution (Treated)  Solid  
 Non-Community  Sediment  Water Treatment Plant POE  Other \_\_\_\_\_  
 Private

Specify Program:  SDWA  NPDES  CWA  RCRA  Consumer Products  Other \_\_\_\_\_

Test Requested:  Trihalomethanes  Volatiles  Semi-volatiles  Haloacetic Acids

FIELD DATA: 6.5 0.0 0.0  
pH Free Cl Total Cl

Field Blank Bottle No.: H0140116F-1  
H0140116F-2  
Trip Blank Bottle No.: H0140116T


Remarks: Samples taken during yield test


Laboratory Supervisor: \_\_\_\_\_ Date Reported: \_\_\_\_/\_\_\_\_/\_\_\_\_

•Phone: (410) 767-4388

•Fax: (410) 225-9318

Form Revised 12/05  
DHMH 4362 (01/07)

  
**E15003162001**  
Received: 04/07/2015 EPA 524.2  
Trace Organics HO140116-1/2

  
**E15003162002**  
Received: 04/07/2015 EPA 524.2  
Trace Organics HO140116T

  
**E15003162003**  
Received: 04/07/2015 EPA 524.2  
Trace Organics HO140116F1/2

Send Report To: Bert Nixon

DEPARTMENT OF HEALTH AND MENTAL HYGIENE

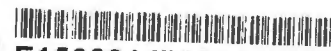
Laboratories Administration

201 W. Preston St

P.O. Box 2355, Baltimore, Maryland 21203

Robert A. Myers, Ph. D., Director

WATER ANALYSIS



E15003147001

Received: 04/07/2015

Inorganic

HO-14-0116

Howard County Health Dept.  
Bureau of Environmental Health  
932 Stanford Blvd

Columbia, MD 21045

Do not write above this line.

S A M P L E	Bottle Number	HO-14-0116	Name	Jacks Landing - [REDACTED]	County	Howard	County Code	13					
	Location	Triadelphia Mill Rd.	Highland	Data Category Code	44	Submitter Code							
I D	Collected: Date	4/6/15	Time	12:30 pm	Collector & Phone	S. Collins 410-313-6287	Submitter Code						
	CHECK (one per box)								Federal Project	5			
	Drinking Water <input checked="" type="checkbox"/>	Landfill <input type="checkbox"/>	Stream <input type="checkbox"/>	Other <input type="checkbox"/>	Community Non-community <input type="checkbox"/>	Private <input type="checkbox"/>	Other <input checked="" type="checkbox"/>	Source (raw water) <input checked="" type="checkbox"/>	Distribution (treated) <input type="checkbox"/>	MCL <input type="checkbox"/>	Emergency Routine <input checked="" type="checkbox"/>	Recheck <input type="checkbox"/>	Special <input type="checkbox"/>

F I E L D	Plant No.	[ ] [ ] [ ] [ ] [ ]	Sampling Station	[ ] [ ] [ ] [ ] [ ]	Preservation: Iced	<input type="checkbox"/>	Acid	<input type="checkbox"/>	Type of Acid	
	pH	[ ] [ ] [ ]	Chlorine: Free	[ ] [ ] [ ]	Total	[ ] [ ] [ ]	Specific Conductance	[ ] [ ] [ ] [ ] [ ]	Notes to Lab/Remarks:	Sample taken during yield test

CHECK TESTS	TESTS	Error Code	RESULTS
	Alkalinity (Total)		
	Ammonia - N		
✓	Chloride		
	Conductance*, Spec.		
✓	Dissolved Solids (Total)		
	Hardness		
	Fluoride		
	Nitrite, N		
	Nitrate - Nitrite, N		
	Sulfate		
	Total Solids		
	Turbidity*		
	Other:		

\* Results reported in Units, all others in milligrams per liter (ppm)

Number of Tests Requested [ ] [ ]

Section Chief \_\_\_\_\_

Date Reported \_\_\_\_\_



PRIVATE JACK'S ASSOCIATION MD AS T

SEPTIC EASEMENT  
10,819 SF

EX. 40' PRIVATE  
USE-IN-COMMON  
ACCESS EASEMENT  
FOR THE BENEFIT  
OF LOTS 1-8

PROP. 12" CULVERT  
(TYP. OF 3)

100' WELL BOX  
SETBACK

30' WELL BOX  
SETBACK

FRONT  
HOUSE  
BOX  
FF=584.00  
BF=574.00  
RB

FRONT  
HOUSE  
BOX  
FF=571.00  
BF=561.00

5/29/15  
Revised  
Well Box  
Approved

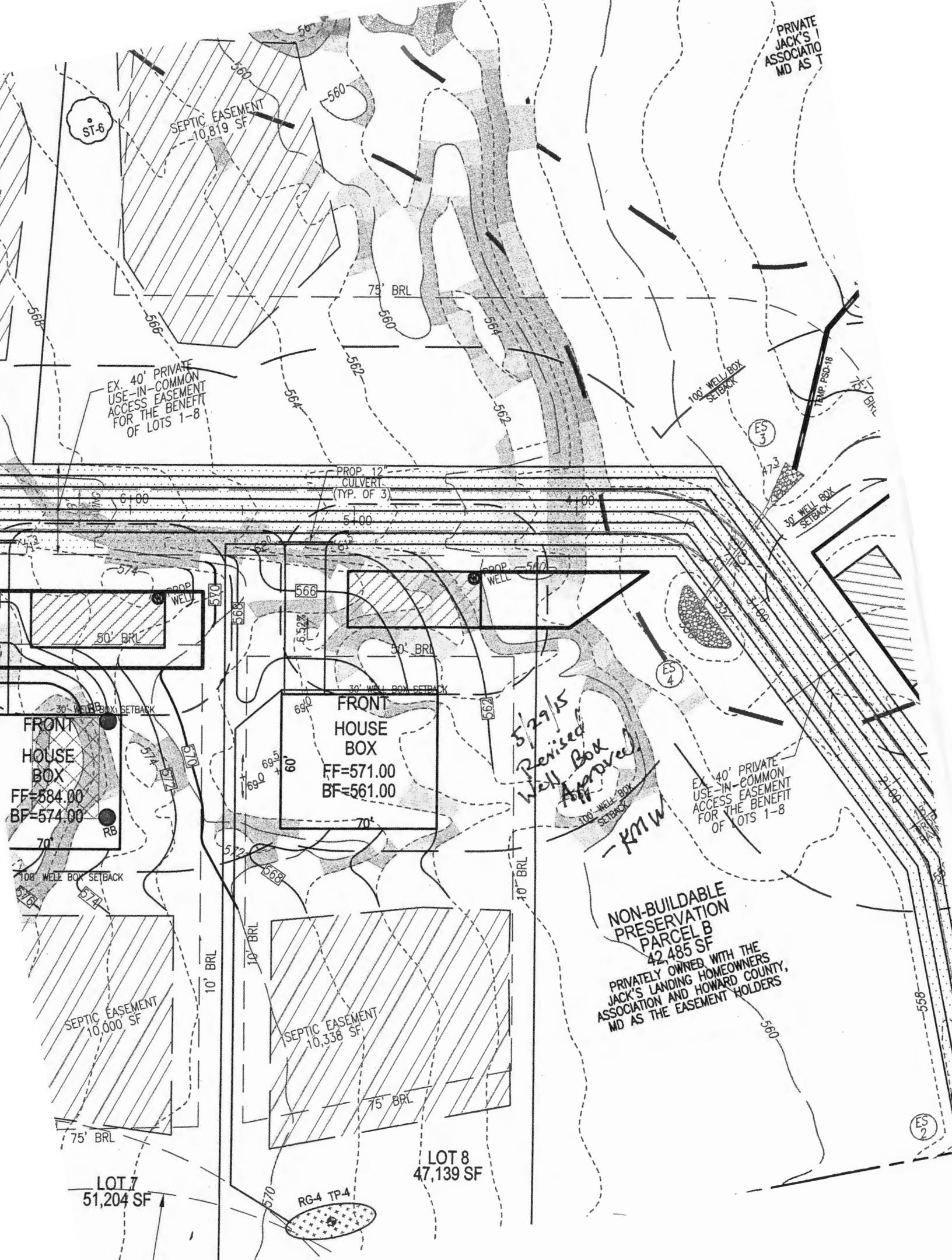
EX. 40' PRIVATE  
USE-IN-COMMON  
ACCESS EASEMENT  
FOR THE BENEFIT  
OF LOTS 1-8

NON-BUILDABLE  
PRESERVATION  
PARCEL B  
42,485 SF

PRIVATELY OWNED WITH THE  
JACK'S LANDING HOMEOWNERS  
ASSOCIATION AND HOWARD COUNTY,  
MD AS THE EASEMENT HOLDERS

LOT 8  
47,139 SF

LOT 7  
51,204 SF



Send Report To: Bert Nixon  
 Howard County Health Dept  
 Bureau of Environmental Health  
 2930 Stanford Blvd.  
 Columbia, MD 21045

DEPARTMENT OF HEALTH AND MENTAL HYGIENE  
 Laboratories Administration  
 201 W. Preston St  
 P.O. Box 2355, Baltimore, Maryland 21203  
 Robert A. Myers, Ph. D., Director  
**WATER ANALYSIS**

Lab No.      Date Received

Do not write above this line.

SAMPLE ID	Bottle Number	HO-14-0116B		Name	Jack's Landing - Lot B		County	Howard		County Code	13		
	Location	Triadelphia Mill Rd.			Highland		Data Category Code						
	Collected: Date	4/6/15		Time			Collector & Phone	S. Collins 410-313-6287		Submitter Code			
	CHECK (one per box)												
	Drinking Water	<input checked="" type="checkbox"/>		Community	<input type="checkbox"/>		Source (raw water)	<input checked="" type="checkbox"/>		Emergency	<input type="checkbox"/>		
	Landfill	<input type="checkbox"/>		Non-community	<input type="checkbox"/>		Distribution (treated)	<input type="checkbox"/>		Routine	<input checked="" type="checkbox"/>		
	Stream	<input type="checkbox"/>		Private	<input checked="" type="checkbox"/>		MCL	<input type="checkbox"/>		Recheck	<input type="checkbox"/>		
	Other	<input type="checkbox"/>		Other	<input type="checkbox"/>					Special	<input type="checkbox"/>		
											Federal Project	5	

FIELD	Plant No.	[ ][ ][ ][ ]			Sampling Station	[ ][ ][ ][ ]			Preservation: Iced	<input type="checkbox"/>		Acid	<input type="checkbox"/>		Type of Acid		
	pH	[ ][ ][ ]			Chlorine: Free	[ ][ ]			Total	[ ][ ]			Specific Conductance	[ ][ ][ ][ ][ ][ ]			
	Notes to Lab/Remarks: Sample taken during yield test																

CHECK TESTS	TESTS	Error Code	RESULTS
	Alkalinity (Total)		
	Ammonia - N		
✓	Chloride		
	Conductance*, Spec.		
✓	Dissolved Solids (Total)		
	Hardness		
	Fluoride		
	Nitrite, N		
	Nitrate - Nitrite, N		
	Sulfate		
	Total Solids		
	Turbidity*		
	<b>Other:</b>		

\* Results reported in Units, all others in milligrams per liter (ppm)

Number of Tests Requested [ ][ ]

Section Chief \_\_\_\_\_

Date Reported \_\_\_\_\_



State of Maryland  
DHMH-Laboratories Administration  
Division of Environmental Chemistry  
**INORGANICS ANALYTICAL LABORATORY**  
201 W. Preston Street, Baltimore, Maryland 21201  
Robert Myers, Ph.D., Director



## Certificate of Analysis

HOWARD CO ENVIRONMENTAL HLTH  
8930 STANFORD BLVD  
COLUMBIA, MD 21045

Lab Project NoE15003147 Date Coll. 04/06/2015 Date Received 04/07/2015 Submitted By: S. Collins

Field ID: HO-14-0116  
Lab No.: E15003147001

<u>Analyte</u>	<u>Method</u>	<u>Result</u>	<u>Units</u>	<u>Date Analyzed</u>
Chloride	SM 4500-Cl E	53	mg/L	04/13/2015
Total Dissolved Solids	SM 2540C	223	mg/L	04/09/2015

Lot 8

### Comments:

Approved by: Shahin A. Ali

Approval date: 04/14/2015

\*The following methods are included in our A2LA Scope of Accreditation: EPA150.1, EPA 353.2, EPA 375.2, SM4500F C, SM 4500-CN G & QCM-CN, QCM-CN.

This document contains confidential health information that is privileged, confidential and exempt from disclosure under law. If you have received this information in error, please call (410) 767-6190 and arrange for return or destruction.

Send Report To: Bert Nixon  
 Howard County Health Dept  
 Bureau of Environmental Health  
 8930 Stanford Blvd  
 Columbia, MD 21045

State of Maryland  
 DHMH - Laboratories Administration  
 Division of Environmental Chemistry  
**ENVIRONMENTAL METALS SECTION**  
 201 W. Preston Street, Baltimore, Maryland 21201

Lab No. Date Received  
 \_\_\_\_\_  
 Do not write above this line

**LABORATORY ANALYSIS REQUEST**

Please Print

Sample ID No: HO-14-0116B Site Name: Jack's Landing - Lot B County: Howard

Sample Source: Triadelphia Mill Rd Highland Collector: S. Collins  
Street Town or City Name

Date Collected: 4 / 8 / 20 15 Time Collected: \_\_\_\_\_ a.m. \_\_\_\_\_ p.m. Phone #: \_\_\_\_\_

Sample Preserved By:  Field  ESRL  Central Lab

Preservative Used:  HNO<sub>3</sub> \_\_\_\_\_

Sample Type:  Drinking Water  Landfill  Source (Raw Water)  Liquid  
 Community  Stream  Distribution (Treated)  Solid  
 Non-Community  Sediment  Other \_\_\_\_\_  
 Private

Specify Program:  SDWA  NPDES  CWA  RCRA  Consumer Products  Other \_\_\_\_\_

Type of Sample Preparation:  Total Metals  Total Metals TCLP  Dissolved Metals  
(field preparation required)

Remarks: Sample taken during yield test

✓	Element	Results (ppm)	✓	Element	Results (ppm)
	Antimony (Sb)			Copper (Cu)	
	Arsenic (As)			Lead (Pb)	
	Barium (Ba)			Silver (Ag)	
	Beryllium (Be)			Zinc (Zn)	
	Cadmium (Cd)			Aluminum (Al)	
	Chromium (Cr)			Iron (Fe)	
	Mercury (Hg)			Manganese (Mn)	
	Nickel (Ni)			Calcium (Ca)	
	Selenium (Se)			Magnesium (Mg)	
✓	Sodium (Na)			Potassium (K)	
	Thallium (Tl)			Uranium (U)	

Lab Supervisor: \_\_\_\_\_

Date Reported: \_\_\_/\_\_\_/\_\_\_

•Phone: (410) 767 - 6186

•Fax: (410) 333 - 5122

DHMH 4432 (7/10)

Send Report To: Bert Nixon

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Bureau of Environmental Health  
8930 Stanford Blvd.

Columbia, MD 21045

State of Maryland  
DHMH - Laboratories Administration  
Division of Environmental Chemistry  
**TRACE ORGANICS SECTION**  
201 W. Preston Street, Baltimore, Maryland 21201  
John M. DeBoy, Dr. P.H., Director

Lab No. Date Received

Do not write above this line

### LABORATORY ANALYSIS REQUEST

Bottle No: H0140116B-1 Plant / Site Name: Jack's Landing - Lot B County: Howard  
H0140116B-2

Sample Source: Triadelphia Mill Rd. Highland Location: H0-14-0116B  
Street Town or City (well no., lab sink, sample tap, etc.)

Sampler ID:  PWSID:  Plant ID:

Collector: S Collins 410-313-6287  
(include telephone number)

Date Collected: 4 / 8 / 200 2015 Time Collected: \_\_\_\_\_ a.m. \_\_\_\_\_ p.m.

Field Preserved:  Yes  No Preservative Used:  1:1 HCl + Ascorbic acid  Na<sub>2</sub>SO<sub>4</sub>  6 mg NH<sub>4</sub>Cl

Sample Type:  Drinking Water  Landfill  Source (Raw Water)  Liquid  
 Community  Stream  Distribution (Treated)  Solid  
 Non-Community  Sediment  Water Treatment Plant POE  Other \_\_\_\_\_  
 Private

Specify Program:  SDWA  NPDES  CWA  RCRA  Consumer Products  Other \_\_\_\_\_

Test Requested :  Trihalomethanes  Volatiles  Semi-volatiles  Haloacetic Acids

FIELD DATA:  pH  Free Cl  Total Cl

Field Blank Bottle No.: \_\_\_\_\_  
Trip Blank Bottle No.: \_\_\_\_\_

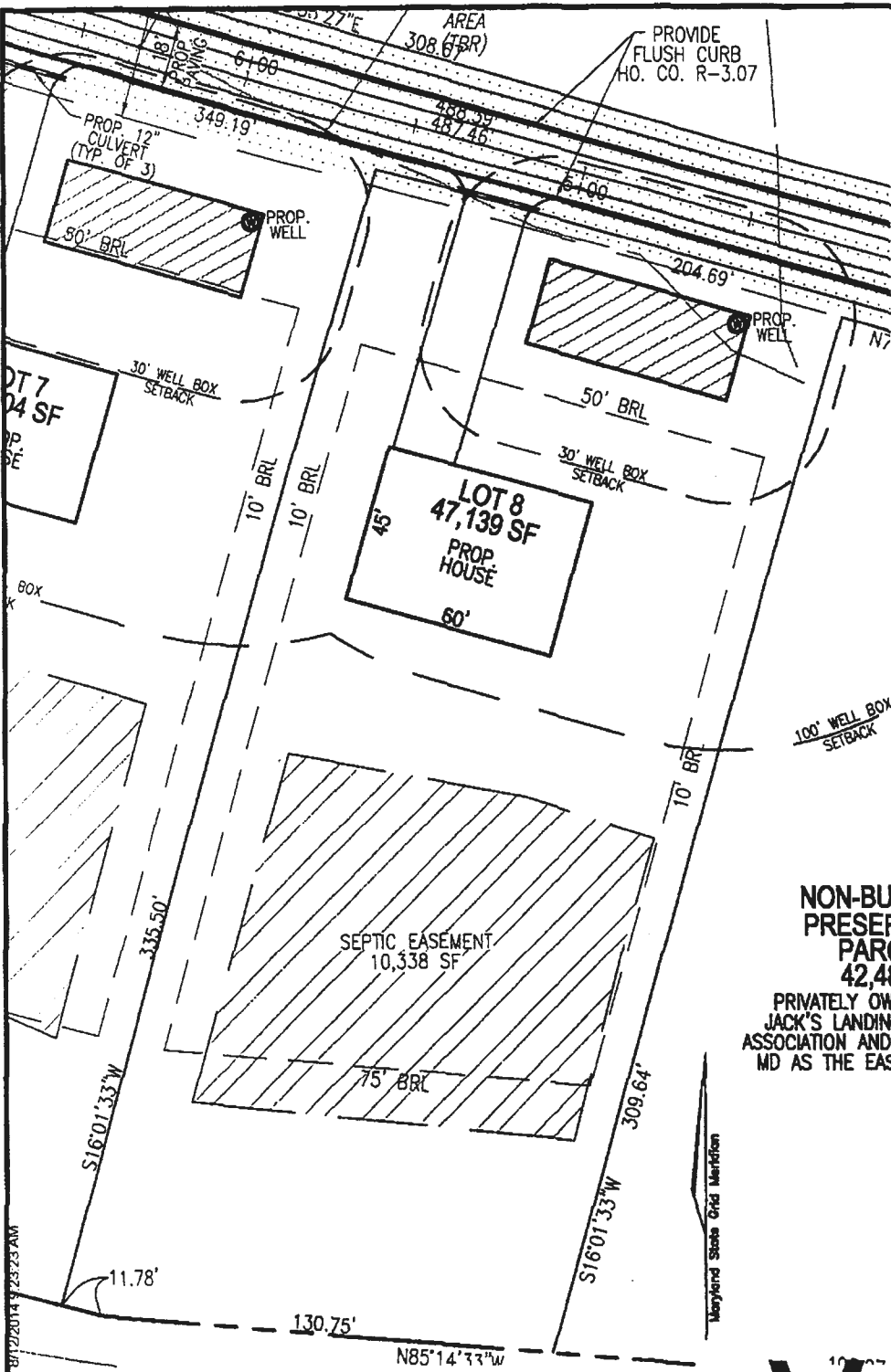
Remarks: Sample taken during yield test

Laboratory Supervisor: \_\_\_\_\_

Date Reported: \_\_\_\_ / \_\_\_\_ / \_\_\_\_

•Phone: (410) 767-4388

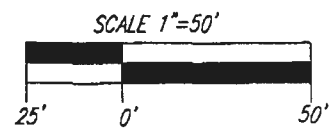
•Fax: (410) 225-9318



- 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

**NON-BU  
PRESEF  
PARC  
42,41**  
PRIVATELY OW  
JACK'S LANDING  
ASSOCIATION AND  
MD AS THE EAS

*Well box approved  
10/20/14  
well box staked  
by Vogel Eng.*



**ROBERT H. VOGEL  
ENGINEERING, INC.**  
ENGINEERS • SURVEYORS • PLANNERS  
8407 MAIN STREET TEL: 410.461.7666  
ELLICOTT CITY, MD 21043 FAX: 410.461.8961

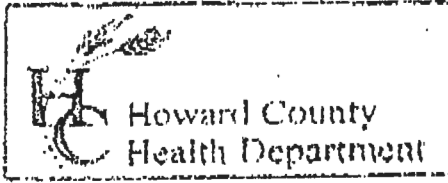
SCALE: 1"=50'  
DRAWN BY: JMR  
CHECKED BY: RHV  
DATE: MARCH 2014  
W. O. #: 13-31  
SHEET # 1 OF 1

**WELL EXHIBIT - LOT 8  
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

K:\PROJECTS\311ENGR\WELLS\WELL EXHIBIT LOT 8.dwg: 01/20/14 9:28:23 AM



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

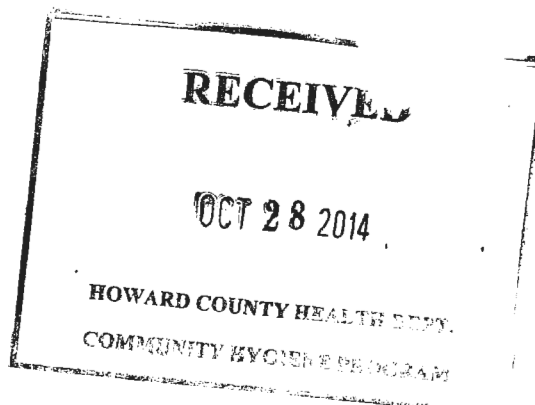
TO ALL INTERESTED PARTIES

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



## Wolf, Kevin

---

**From:** Wolf, Kevin  
**Sent:** Thursday, April 05, 2018 12:07 PM  
**To:** 'Mike Isom'; Ron Green  
**Cc:** Rob Vogel (rvogel@vogeleng.com)  
**Subject:** RE: Jacks Landing lot 6

Mike,

COMAR and confirmed thru MDE, variances to COMAR for new wells are only given for distance requirements not construction. You option would be at this point to drill another well that meets the .5pgm in tandem with the other .5gpm+ well. Again, keep in mind that prior to drilling this well in another location, more replacement well area will need to be defined on the lot that meets all required setbacks. This can be done on the revised well exhibit for each lot.  
Kevin

**From:** Mike Isom [<mailto:misom@mbwd.us>]  
**Sent:** Wednesday, April 04, 2018 3:09 PM  
**To:** Wolf, Kevin; Ron Green  
**Subject:** Jacks Landing lot 6

Attached is a variance request for lot 6 of Jacks Landing to allow usage of the two wells installed within the revised well area. I have also attached the yield results for lot 6 along with lot 7 which was tested with them.

--

Sincerely,

Michael Isom  
Project Manager  
Michael Barlow Well Drilling Service  
Phone: (410) 838-6910  
Fax: (410) 838-3582  
522 Underwood Lane  
Bel Air, MD 21014  
[www.michaelbarlowwelldrilling.com](http://www.michaelbarlowwelldrilling.com)  
[www.thermalloopcorp.com](http://www.thermalloopcorp.com)  
[Click HERE to like us on Facebook!](#)



## Bureau of Environmental Health

7178 Columbia Gateway Drive, Columbia, MD 21046-2147

Main: 410-313-2640 | Fax: 410-313-2648

TDD 410-313-2323 | Toll Free 1-866-313-6300

[www.hchealth.org](http://www.hchealth.org)

Facebook: [www.facebook.com/hocohealth](https://www.facebook.com/hocohealth)


Twitter: HowardCoHealthDep

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

---

### MEMORANDUM

TO: Michael Barlow, MWD 355  
Barlow Well Drilling

FROM: Ryan Rappaport, LEHS   
Well & Septic Program

RE: VOC Testing required of all wells at Jack's Landing Lots 1-8 & Parcel A

DATE: October 20, 2014

---

As per the approved and signed Percolation Certification Plan dated February 6, 2014, general note #13: VOC Testing will be required on all wells prior to health signature of final plat. See special condition on each well permit for specific requirements.

**MICHAEL BARLOW WELL DRILLING  
522 UNDERWOOD LANE  
BEL AIR, MD 21014  
410-838-6910**

Howard County Health Department  
7178 Columbia Gateway Drive  
Columbia, MD 21046  
Attn: Kevin Wolf

April 4, 2018

Re: Jacks Landing lot 8

Two drilling attempts were made in the revised well area for lot 8 of Jacks Landing. On March 27<sup>th</sup>, both of the new wells on lot were tested simultaneously with the new well on lot 7 that show a yield of .5 gpm in the one of the wells and .75 gpm in the other. This letter serves as an official request for approval by your department for tandem usage of these wells to meet COMAR requirements. Once approved we will submit an additional permit for the additional well. I have attached copies of those yield results with this letter. Please contact me with any questions.

Michael Barlow  
MWD355

---

→ See Response via Email Dated  
April 5, 2018 12:07 PM  
(RM)

PRIVATE JACK'S ASSOCIATION MD AS T

SEPTIC EASEMENT 10,819 SF

EX. 40' PRIVATE USE-IN-COMMON ACCESS EASEMENT FOR THE BENEFIT OF LOTS 1-8

PROP. 12" CULVERT (TYP. OF 3)

100' WELL BOX SETBACK

ES 3

30' WELL BOX SETBACK

576  
80' BRL

FRONT HOUSE BOX  
FF=584.00  
BF=574.00

FRONT HOUSE BOX  
FF=571.00  
BF=561.00

5/29/15 Revised Well Box App - KMW

EX. 40' PRIVATE USE-IN-COMMON ACCESS EASEMENT FOR THE BENEFIT OF LOTS 1-8

NON-BUILDABLE PRESERVATION PARCEL B 42,485 SF

PRIVATELY OWNED WITH THE JACK'S LANDING HOMEOWNERS ASSOCIATION AND HOWARD COUNTY, MD AS THE EASEMENT HOLDERS

Dry holes

SEPTIC EASEMENT 10,000 SF

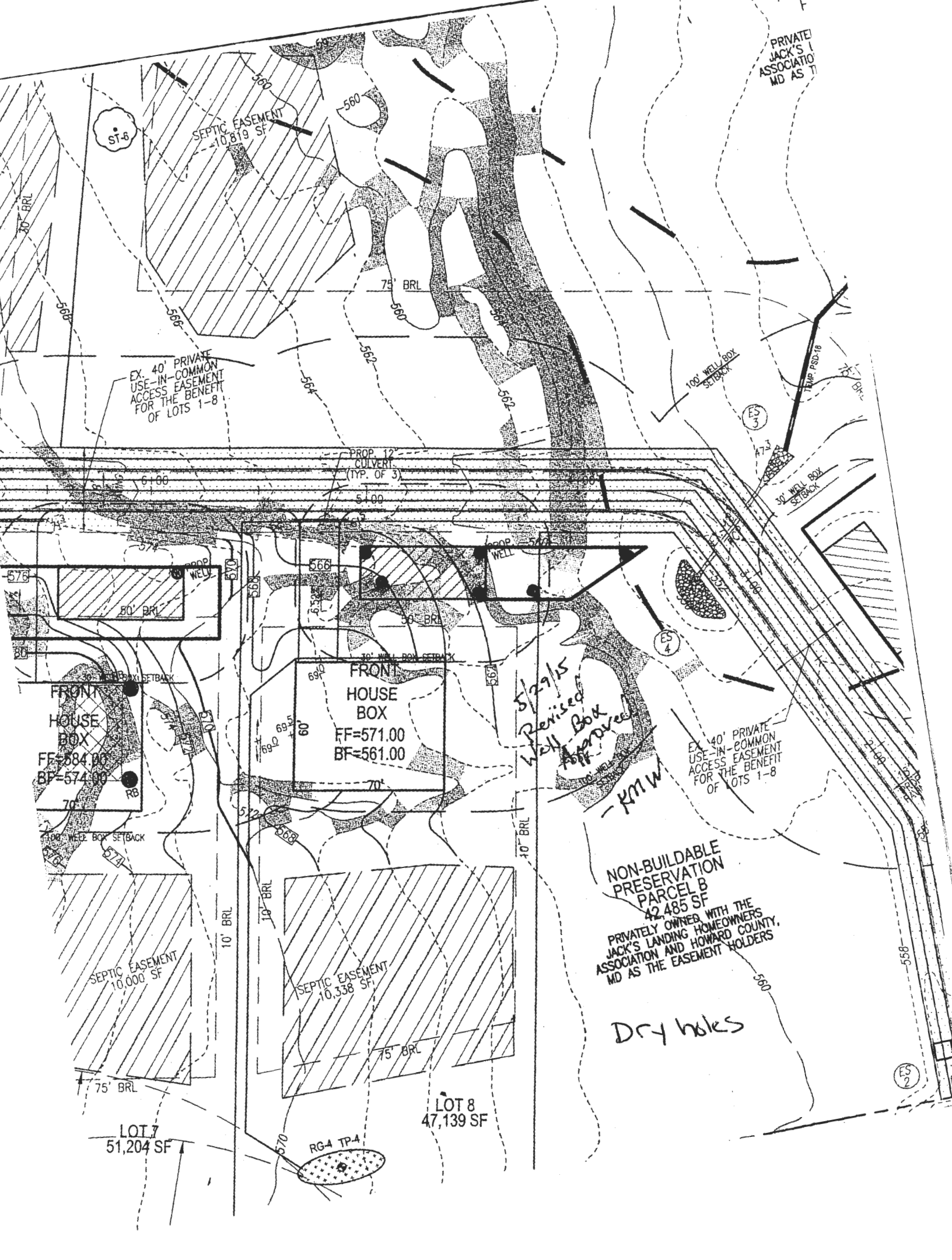
SEPTIC EASEMENT 10,338 SF

LOT 8 47,139 SF

LOT 7 51,204 SF

RG-4 TP-4

ES 2





MARYLAND DEPARTMENT OF THE ENVIRONMENT, WATER MANAGEMENT ADMINISTRATION  
1800 Washington Blvd., Baltimore, Maryland 21230 (410) 537-3784

WATER WELL ABANDONMENT-SEALING REPORT FORM

**SUBMIT COPIES OF COMPLETED FORM TO:**

- \* COUNTY ENVIRONMENTAL AGENCY (contact MDE, WMA if address needed)
- \* WELL OWNER
- \* MDE, WATER MANAGEMENT ADMINISTRATION, WELL PROGRAM

DATE WELL ABANDONED: 9/26/16 (month/day/year)

\* PERMIT NUMBER OF ABANDONED WELL (if any)

\* PERMIT NUMBER OF REPLACEMENT WELL:

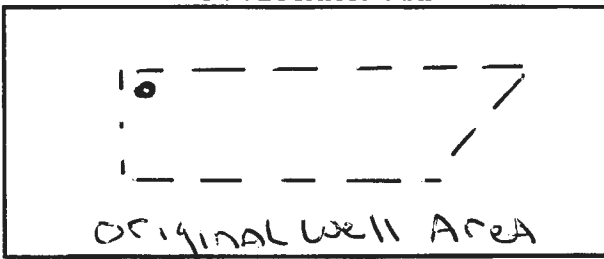
HO-14-0114

\* PERSON ABANDONING WELL: Michael Barlow WELL DRILLER'S LICENSE NUMBER: 355

\* OWNER'S NAME: LAND Design + Development CIRCLE: MWD / MSD / MGD

\* WELL LOCATION: HOWARD  
COUNTY: \_\_\_\_\_  
NEAREST TOWN: CLARKSVILLE  
TAX MAP 34 BLOCK \_\_\_\_\_ PARCEL 414  
SUBDIVISION: JACKS LANDING  
SECTION: \_\_\_\_\_ LOT: 8  
STREET ADDRESS: TRIADAPHA MILL RD

SITE LOCATION MAP



LATITUDE 39.21580  
LONGITUDE 76.97419

LOG OF SEALING MATERIAL

MATERIAL	FEET	
	FROM	TO
Drill Cuttings	400	20
Cement	20	0

\* TYPE OF WELL BEING ABANDONED:  
 DRILLED  JETTED  
 BORED  HAND DUG  
 OTHER (specify) \_\_\_\_\_

\* USE CODE:  
 DOMESTIC  MUNICIPAL/PUBLIC  
 IRRIGATION  INDUSTRIAL  
 TEST/OBSERVATION  GEOTHERMAL

\* TYPE OF CASING: NONE - Dry hole #1  
 STEEL  PLASTIC  
 CONCRETE  OTHER (specify) \_\_\_\_\_

VOLUME OF MATERIAL USED

470 lbs Cement

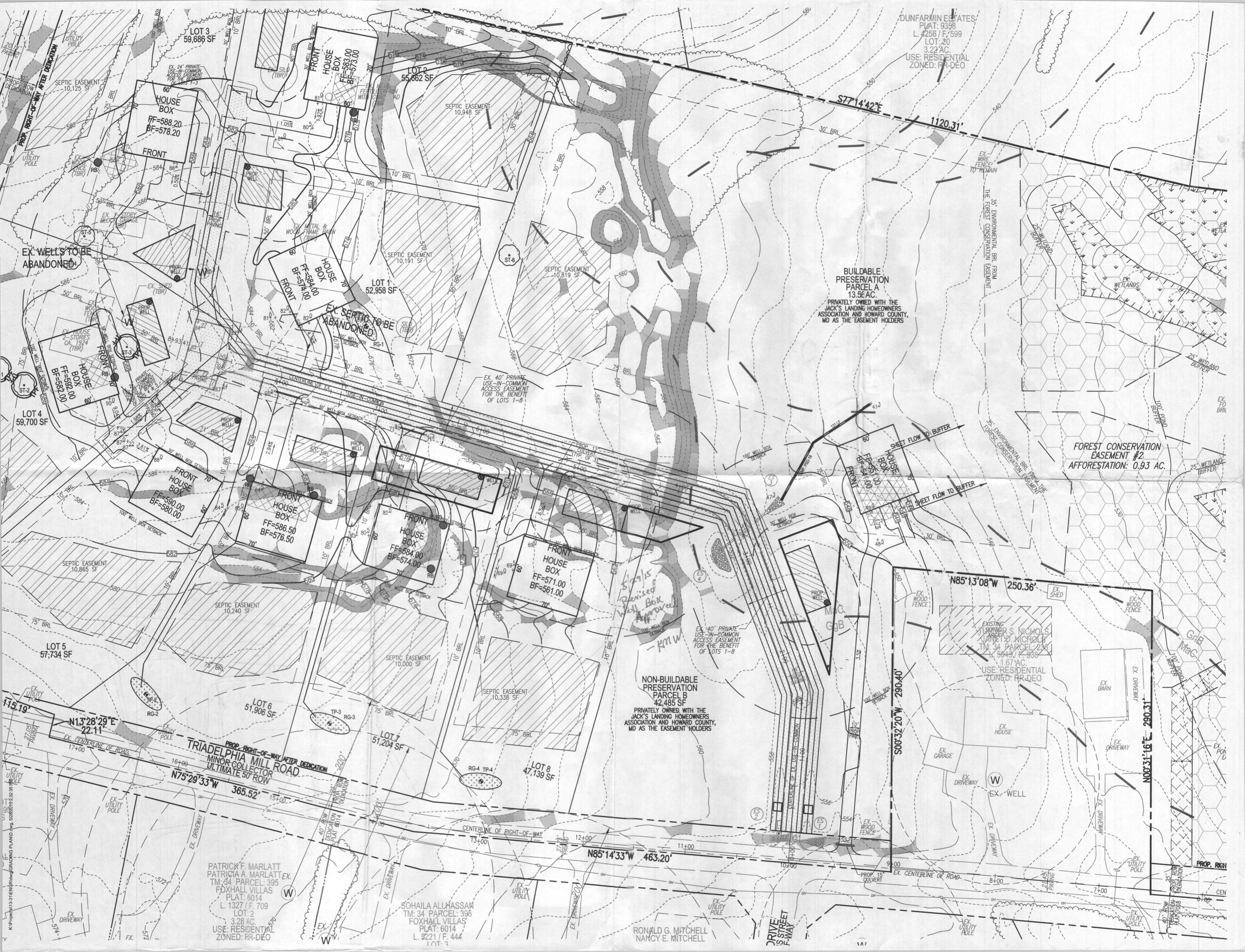
SIZE OF CASING: 4 INCHES IN DIAMETER  
 DEPTH OF WELL: 400 FEET DEEP  
 WAS ANY CASING REMOVED?  YES  NO  
 If yes, length removed, in feet: \_\_\_\_\_  
 WAS CASING RIPPED OR PERFORATED?  YES  NO

Pursuant to § 10-624 of the State Govt. Article of the Maryland Code, personal info requested on this form is used in processing this form pursuant to COMAR 26.04.04. Failure to provide the info may result in this form not being processed. You have the right to inspect, amend, or correct this form. The Maryland Department of the Environment is subject to the Maryland Public Information Act. This form may be made available on the Internet via MDE's website and is subject to inspection or copying, in whole or in part, by the public and other governmental agencies, if not protected by federal or State Law.

SIGNATURE-MASTER WELL DRILLER OR SUPERVISING SANITARIAN [Signature] LICENSE# 355

CIRCLE: MWD / MSD / MGS DATE 3/2/19





DUNFARMIN ESTATES/  
PLAT: 9358  
L. 4256 / F. 699  
LOT: 20  
3.22 AC.  
USE: RESIDENTIAL  
ZONED: RR-DEO

LOT 3  
59,686 SF

LOT 2  
55,662 SF

LOT 1  
52,958 SF

LOT 4  
59,700 SF

LOT 5  
57,734 SF

LOT 6  
51,906 SF

LOT 7  
51,204 SF

LOT 8  
47,139 SF

PATRICK F. MARLATT  
PATRICIA A. MARLATT EX.  
TM: 34 PARCEL: 395  
FOXHALL VILLAS  
PLAT: 6014  
L. 1327 / F. 709  
LOT: 2  
3.28 AC.  
USE: RESIDENTIAL  
ZONED: RR-DEO

SOHAILA ALI HASSAM  
TM: 34 PARCEL: 395  
FOXHALL VILLAS  
PLAT: 6014  
L. 3221 / F. 444  
LOT: 3

RONALD G. MITCHELL  
NANCY E. MITCHELL

BUILDABLE  
PRESERVATION  
PARCEL A  
13.56 AC.  
PRIVATELY OWNED WITH THE  
JACK'S LANDING HOMEOWNERS  
ASSOCIATION AND HOWARD COUNTY,  
MD AS THE EASEMENT HOLDERS

NON-BUILDABLE  
PRESERVATION  
PARCEL B  
42,485 SF  
PRIVATELY OWNED WITH THE  
JACK'S LANDING HOMEOWNERS  
ASSOCIATION AND HOWARD COUNTY,  
MD AS THE EASEMENT HOLDERS

FOREST CONSERVATION  
EASEMENT #2  
AFFORESTATION: 0.93 AC.

TRIADAPHELIA MILL ROAD  
MINOR COLLECTOR  
ULTIMATE 50' ROW

DRIVE  
S STREET  
F-WAY