

ORIGINAL

B 1 <div style="border: 1px solid black; padding: 2px; font-size: 1.2em; font-weight: bold;">38349</div>	SEQUENCE NO. (MDE USE ONLY)	STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL please type	STATE PERMIT NUMBER <div style="font-size: 1.2em; font-weight: bold;">HO-15-0316</div> fill in this form completely
Date Received (APA) <div style="font-size: 1.2em; font-weight: bold;">06-28-16</div> 8 MM DD YY 13		B 3 LOCATION OF WELL CC#	
OWNER INFORMATION <div style="border: 1px solid black; padding: 2px;"> ESTATE OF PATRICIA L. SHEPPARD 15 Last Name Owner First Name 34 5020 TEN OAKS ROAD 36 Street or RFD 55 CLARKSVILLE, MD 21029 57 Town 70 State 72 Zip 76 </div>		<div style="border: 1px solid black; padding: 2px;"> Howard 8 COUNTY 21 Ten Oaks Farm 23 SUBDIVISION 42 SECTION 44 46 LOT 48 50 Dayton 52 NEAREST TOWN 71 </div>	
DRILLER INFORMATION <div style="border: 1px solid black; padding: 2px;"> George F. Easterday M W D 040 Driller's Name 76 License No. 81 L. Franklin Easterday, Inc. Firm Name 9265 Brown Church Rd., Mt. Airy, Md. 21771 Address Signature Date 6/23/2016 </div>		B 4 SOURCES OF DRILLING WATER 1. wells 2. 3.	
B 2 WELL INFORMATION APPROX. PUMPING RATE 5 (GAL. PER MIN.) 8 12 AVERAGE DAILY QUANTITY NEEDED 500 (GAL. PER DAY) 14 20		<div style="border: 1px solid black; padding: 2px;"> Ten Oaks Road 11 STREET ADDRESS 30 ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX) NORTH WEST EAST SOUTH 34 400 37 DISTANCE FROM ROAD FL ENTER FT OR MI 38 39 TAX MAP: 28 BLK: 14 PARCEL 140 </div>	
USE FOR WATER (CIRCLE APPROPRIATE BOX) <input checked="" type="radio"/> DOMESTIC POTABLE SUPPLY & RESIDENTIAL IRRIGATION <input type="radio"/> FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION) <input type="radio"/> INDUSTRIAL, COMMERCIAL, DEWATERING <input type="radio"/> PUBLIC WATER SUPPLY WELL <input type="radio"/> TEST, OBSERVATION, MONITORING <input type="radio"/> OPEN LOOP GEOTHERMAL <input type="radio"/> CLOSED LOOP GEOTHERMAL		NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL <div style="border: 1px solid black; padding: 2px;"> Howard (13) COUNTY NAME COUNTY NO. STATE SIGNATURE INSERT S 41 DATE ISSUED 9/14/16 43 MM DD YY 48 CO SIGNATURE EXP. DATE 9/14/17 </div>	
APPROXIMATE DEPTH OF WELL 300 FEET 24 28 APPROXIMATE DIAMETER OF WELL 6 INCH NEAREST INCH		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 <div style="border: 1px solid black; padding: 10px; margin-top: 10px;"> Dayton Ten Oaks Rd Morningside Dr Sodium, chloride, + TDS samples collected 12/13/16 SC Highland Rd </div>	
METHOD OF DRILLING (circle one) BORED (or Augered) JETTED Jetted & DRIVEN 30 AIR-ROTARY AIR-PERCussion ROTARY (Hydraulic Rotary) 37 CABLE REVERSE-ROTARY Drive-POINT other		REPLACEMENT OR DEEPEINED WELLS (CIRCLE APPROPRIATE BOX) <input checked="" type="radio"/> THIS WELL WILL NOT REPLACE AN EXISTING WELL <input type="radio"/> THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED <input type="radio"/> THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY-CONTACT LOCAL APPROVING AUTHORITY FOR POLICY ON STANDBY WELLS <input type="radio"/> THIS WELL WILL DEEPEIN AN EXISTING WELL PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEINED (IF AVAILABLE) 41 52	
Not to be filled in by driller (MDE OR COUNTY USE ONLY) APPROP. PERMIT NUMBER - - - - - G - - - - - PERMIT No. HO-15-0316 70 71 72 73 74 75 76 77 78 79			
SPECIAL CONDITIONS must collect sodium, chlorides, TDS NOTE: APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED			

Review

Maryland Well Permit No. HO-15-0316 Election District _____
Location of Property (road) Ten Oaks Road
Subdivision Ten Oaks Farms Lot 6 Block _____ Plat _____ Sec. _____
Well Driller Easterday Owner Sheppard Estate
Depth of Well 100 12
Distance of Measuring Point (M.P.) above ground 2'
Static Water Level (S.W.L.) below M.P. 14 1st. 39.233084

I. High Rate Pumping -- reservoir drawdown

Time pump started 11:15 Pumping rate 15 GPM.
Total time to reach pumping water level ft. below M.P.

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

[illegible]

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

State of Maryland
DHMH - Laboratories Administration
Division of Environmental Chemistry
TRACE METALS LABORATORY
1770 Ashland Avenue
Baltimore, Maryland 21205



E17002495001

Received: 12/14/2016

Metals

HO-15-0316

Do not write above this line

LABORATORY ANALYSIS REQUEST

Please Print

B

Sample ID No: HO-15-0316 Site Name: Ten Oaks Farm Lot 6 County: Howard

Sample Source: Ten Oaks Rd. Dayton Collector: S. Collins
Street Town or City Name

Date Collected: 12/13/2016 Time Collected: 11:30 a.m. _____ p.m. Phone #: 410-313-6237

Sample Preserved By: ☒ Field ☐ ESRL ☐ WMRL ☐ Central Lab
Preservative Used: ☒ HNO₃ mL pH: 2

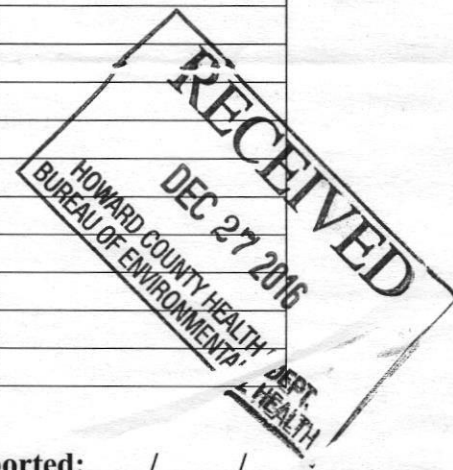
Sample Type: ☒ Drinking Water ☐ Landfill ☒ Source (Raw Water) ☐ Liquid
Data Category: ☐ Community ☐ Stream ☐ Distribution (Treated) ☐ Solid
Code ☐ Non-Community ☐ Sediment ☐ Other _____
☒ Private

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 collected 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) <u>215</u>			Potassium (K)	
	Thallium (Tl)			Uranium (U)	
				Vanadium (V)	



Lab Supervisor: _____

Date Reported: ____/____/____

DHMH 4432 (05/15)

•Phone: (443) 681-3857

•Fax: (443) 681-4507

SUBMITTER'S COPY



State of Maryland
DHMH-Laboratories Administration
Division of Environmental Chemistry
TRACE METALS LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director



Certificate of Analysis

HOWARD CO ENVIRONMENTAL HLTH
8930 STANFORD BLVD
COLUMBIA, MD 21045

Lab Project No: E17002495 Date Coll.: 12/13/2016 Date Received 12/14/2016 Submitted By Collins

Field ID: HO-15-0316
Lab No.: E17002495001

<u>Method</u>	<u>Element</u>	<u>Result</u>	<u>Units</u>	<u>Date Analyzed</u>
EPA 200.7	Sodium	5.56	ppm	12/20/2016

Comments:

Approved by:

Yungso Choi

Approval date: 12/21/2016

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

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) 767-6944 and arrange for return or destruction.

HO-15-0316

SUBMITTER'S COPY



State of Maryland
DHMH-Laboratories Administration
Division of Environmental Chemistry
INORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director



Certificate of Analysis

HOWARD CO ENVIRONMENTAL HLTH
8930 STANFORD BLVD
COLUMBIA, MD 21045

Lab Project NoE17002492 Date Coll. 12/13/2016 Date Received 12/14/2016 Submitted By:Collins

Field ID: HO-15-0316
Lab No.: E17002492001

<u>Analyte</u>	<u>Method</u>	<u>Result</u>	<u>Units</u>	<u>Date Analyzed</u>
Chloride	SM 4500-Cl E	<10	mg/L	12/19/2016
Total Dissolved Solids	SM 2540C	78	mg/L	12/14/2016

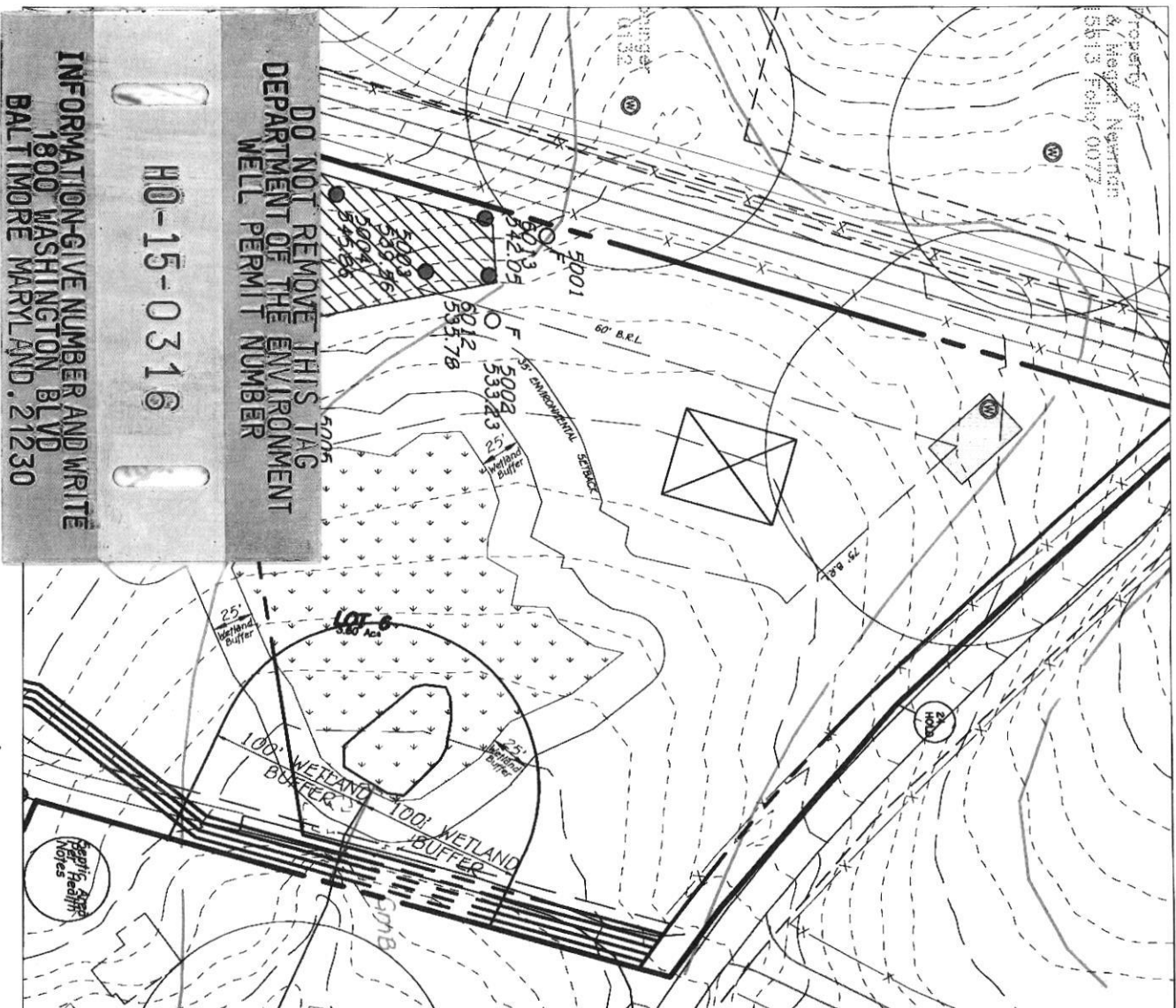
Comments:

Approved by:

Approval date: 12/21/2016

*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.

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INFORMATION-GIVE NUMBER AND WRITE
1800 WASHINGTON BLVD
BALTIMORE MARYLAND 21230

HO-15-0316

DO NOT REMOVE THIS TAG
DEPARTMENT OF THE ENVIRONMENT
WELL PERMIT NUMBER

9/14/16 Well Box Approval
staked by FCC

-KMC

WELL EXHIBIT LOT 6
TEN OAKS FARM

LOTS 1 - 6

ZONED: RR-DEO

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS

CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
ELLICOTT CITY, MARYLAND 21042
(410) 461 - 2655

TAX MAP #28

PARCEL: 140

5TH ELECTION DISTRICT

HOWARD COUNTY, MARYLAND

SCALE: 1"=100'

DATE: JUNE 28, 2016



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:

- ☐ The well site has been staked by Fisher Collins v Carter
(professional land surveyor or company employing professional land surveyors)
on 6-22-16 (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

LOT 6
Ten OAKS FARMS

FILE INQUIRY NOTES

[illegible]