

C1 46073

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 Received

DATE WELL COMPLETED

Depth of Well

OK 4/24/17 SC

PERMIT NO. FROM "PERMIT TO DRILL WELL" HV 17-0014

OWNER Boardman George, WELL SITE ADDRESS Andrie Dr., TOWN West Friendship, SUBDIVISION Paupers Foley, SECTION, LOT 5

WELL LOG table with columns: DESCRIPTION, FEET (FROM, TO), check if water bearing. Includes entries for Top Soil, Brown clay, Brown Mica, Sand stone, Gray Mica, Brown Mica, Gray Mica.

GROUTING RECORD form with fields for CEMENT (CM), BENTONITE CLAY (BC), NO. OF BAGS (8), NO. OF POUNDS (400), GALLONS OF WATER (184), DEPTH OF GROUT SEAL (55 ft).

CASING RECORD form with fields for MAIN CASING TYPE (ST), Nominal diameter (6 inch), Total depth (60 foot).

OTHER CASING (if used) table with columns for diameter and depth.

SCREEN RECORD form with fields for screen type (ST), BRASS (BR), OPEN HOLE (HO), PLASTIC (PL), OTHER (OT).

PUMPING TEST form with fields for HOURS PUMPED (3), PUMPING RATE (334 gal. per min.), METHOD USED TO MEASURE PUMPING RATE (Bucket), WATER LEVEL (23 ft), TYPE OF PUMP USED (S) submersible.

PUMP INSTALLED form with fields for DRILLER INSTALLED PUMP (NO), TYPE OF PUMP INSTALLED (S), CAPACITY (31 gallons per minute), PUMP HORSE POWER (37), PUMP COLUMN LENGTH (43).

NUMBER OF UNSUCCESSFUL WELLS: 0

WELL HYDROFRACTURED (Y), CIRCLE APPROPRIATE LETTER (A, E, P)

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. 1 MWD 040, George F. Erdemay, DRILLERS SIGNATURE, LIC. NO. 1 JS D 038, Bruce Thompson

DEPTH (nearest ft.) table with columns for depth ranges and values (58, 400).

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

LATITUDE 39.271152, LONGITUDE 76.984707 (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.

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

TELESCOPE CASING, LOG INDICATOR, OTHER DATA

B 1 SEQUENCE NO. (MDE USE ONLY) **47508** STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL STATE PERMIT NUMBER **HO-17-0014**

DATE RECEIVED (APA) **012317** **13317** please type **2005161** fill in this form completely

OWNER INFORMATION

8 MM DD YY 13 **01 23 17**

15 Last Name **BOORMAN BOORMAN** Owner **GEORGE** First Name **34**

36 **3826 ANDREA DRIVE** Street or RFD **85**

57 Town **WEST FRIENDSHIP, MD 21794** State **70** Zip **76**

B 3 LOCATION OF WELL

8 COUNTY **Howard** **21**

23 SUBDIVISION **Paupers Folly** **42**

SECTION **5** **LOT** **50**

52 NEAREST TOWN **West Friendship** **71**

DRILLER INFORMATION

76 Driller's Name **George F. Easterday** License No. **840** **81**

76 **L. Franklin Easterday, Inc.** Firm Name

76 **9265 Brown Church Rd., Mt. Airy, Md. 21771** Address

76 **George F. Easterday** Signature **1/23/2017** Date

B 4 SOURCES OF DRILLING WATER

11 wells **30** STREET ADDRESS **Andrea Drive**

ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)

34 **700** **37** DISTANCE FROM ROAD Ft.

ENTER FT OR MI **38** **39**

TAX MAP: **22** BLK: **B** PARCEL **116**

B 2 WELL INFORMATION

1 APPROX. PUMPING RATE (GAL. PER MIN.) **5** **12**

AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) **500** **20**

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL

Howard **13** COUNTY NAME COUNTY NO.

STATE SIGNATURE **INSERT S** **41**

DATE ISSUED **2/7/17** **2/7/18** **43** MM DD YY **48** CO SIGNATURE **EXP. DATE**

DON: 3/6/17 **DOY: 3/7/17**

USE FOR WATER (CIRCLE APPROPRIATE BOX)

D DOMESTIC POTABLE SUPPLY & RESIDENTIAL IRRIGATION

F FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION)

I INDUSTRIAL, COMMERCIAL, DEWATERING

P PUBLIC WATER SUPPLY WELL

T TEST, OBSERVATION, MONITORING

O OPEN LOOP GEOTHERMAL

C CLOSED LOOP GEOTHERMAL

APPROXIMATE DEPTH OF WELL **300** FEET **24** **28**

APPROXIMATE DIAMETER OF WELL **6** INCH **NEAREST**

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

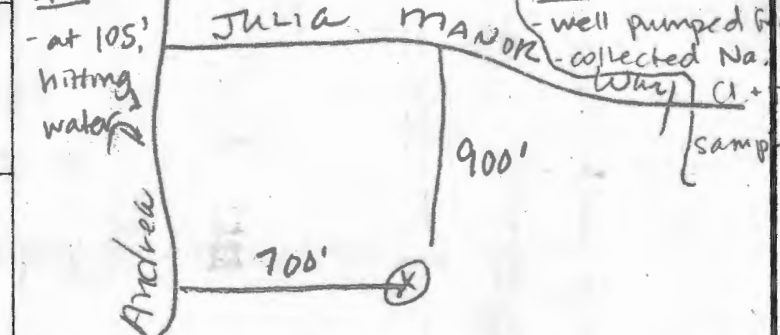
METHOD OF DRILLING (circle one)

BORED (or Augered) **JETTED** **Jettied & DRIVEN**

30 **AIR-ROTARY** **AIR-PERCussion** **ROTARY (Hydraulic Rotary)**

37 **CABLE** **REVERSE-ROTARY** **DRIVE-POINT**

other _____



REPLACEMENT OR DEEPEMED WELLS (CIRCLE APPROPRIATE BOX)

N THIS WELL WILL NOT REPLACE AN EXISTING WELL

Y THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED

S THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY-CONTACT LOCAL APPROVING AUTHORITY FOR POLICY ON STANDBY WELLS

D THIS WELL WILL DEEPEM AN EXISTING WELL

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

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.

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

APPROP. PERMIT NUMBER **G**

PERMIT No. **HO-17-0014** **70** **71** **72** **73** **74** **75** **76** **77** **78** **79**

SPECIAL CONDITIONS

NOTE: APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED- **The Health Dept. must receive advance notification**

MDE/WMA/PER.071 Sodium, chloride, TDS, + VOC samples read at yield. **© COUNTY** of all drilling, grouting, + yield tests.

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

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: Foales Well Pump & Water Treatment, LLC Telephone #: 410 795 5670
Address: 580 Obrecht Rd
Sykesville, MD 21784

Must circle one: Licensed Plumber Licensed Well Driller Licensed Well Pump Installer

License # and name of individual responsible for the field installation:
Name (Print): DAVID C FOALE License# M50226

*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: NVR Telephone #: _____
Subdivision: Beverly Estates Lot #: 5 Well Tag #: HO-17-0014(S)
Site Address: 3631 PAUPERS FOLLY LANE
WEST FRIENDSHIP, MD 21794

Submersible Pump Data

Make: Goulds
Model #: 7A507422
Pump Capacity: 7
Well Yield: 4

Pitless Adapter

Make: Campbell
Model #: NA
GPM Depth: 36" (36" min)
GPM NSF/WSC approved: Y

Well Cap and Electric Conduit

Two piece watertight cap: Y
Screened, vented well cap: Y
Cap secured to casing: Y
Conduit min 18" B.G.: Y
Conduit secured to well cap: Y

Depth of well encountered at time of pump installation: 400 (feet)
If pump capacity exceeds well yield, a low water cut off switch is required by NSPC 1990 Section 17.8.4

Must circle one: Torque arrestors / Cable guards / Other acceptable method used
Safety rope, if used, attached to brass rope adapter or other acceptable method inside of well casing NA

Piping to house

Type: 1" poly pipe
PSI: 200 (160 psi min)
Depth of supply line: 36" (36" min)

House Connection

PVC sleeve to undisturbed soil at wall penetration: Y
Length of sleeve (5' minimum from foundation): 6'
Sleeve sealed properly: Y

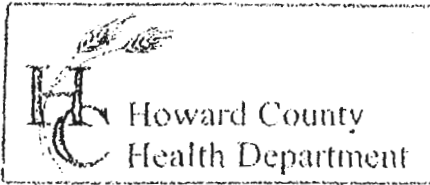
The water supply line is required to be at least ten feet from the septic tank, pump chamber, sewage piping, distribution box, drainfields, and sewage reserve area. If this cannot be accomplished, contact this office for approval prior to installation.

Signature of company representative responsible for installation: [Signature] date: 4-29-2020

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

Date Insp. Requested: 4/29/2020 Date Insp. Approved: 4/29/2020 Inspector: (SD)
Inspection Data: Pitless adapter watertight & water supply line at least 36" below grade ✓ 39"
Two piece cap installed and attached to casing securely ✓
Elec. conduit extends at least 18" below grade/attached to cap properly ✓ 34"
Safety rope not outside of well cap/casing ✓
Correct well tag attached properly and casing 8" above finished grade ✓ 14"
Water supply line sleeved adequately at house connection ✓ 8"
Adequate grout observed below pitless adapter ✓

(Revised form 10/24/2018)



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:

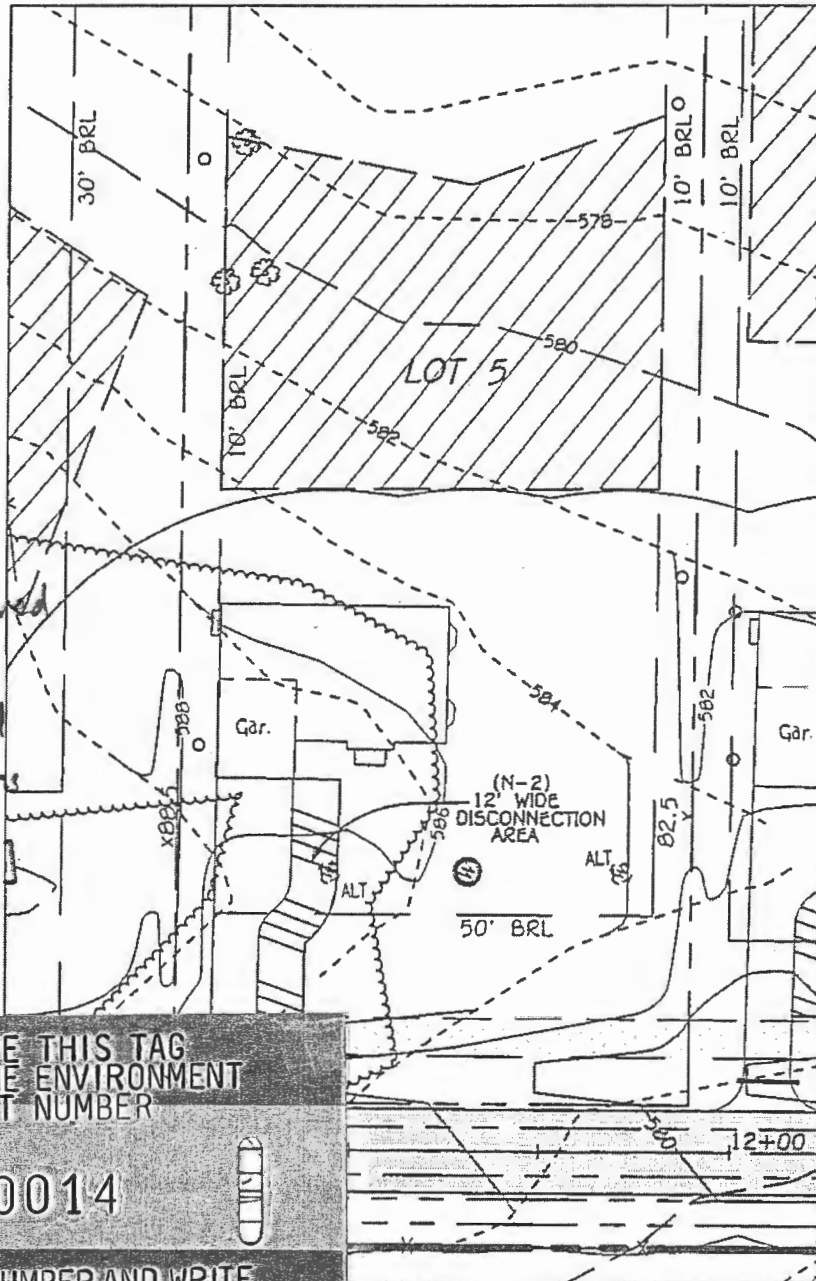
- The well site has been staked by Fisher Collins & Carter,
(professional land surveyor or company employing professional land surveyors)
on 1-25-17 (date) and does not require a site inspection.
- The well driller, builder or property owner will call the Health Department to schedule a time to meet 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

Paupers Folly

Lot #	Northing	Easting	Longitude	Latitude
LOT 5	504366.9726	1316617.0505	W76° 59' 05.52"	N39° 16' 16.39"



Well sites approved
2/7/17 SC
Well sites staked
by Fisher, Collins
& Carter, Inc.

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

HO-17-0014

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

FOLLY LANE
ACCESS PLACE

PLAN

Scale: 1" = 50'

LOT 5 WELL MAP
PAUPERS FOLLY
LOTS 1-11, BUILDABLE PRESERVATION PARCEL 'A'
AND NON-BUILDABLE PRESERVATION PARCEL 'B'

ZONED: RR-DEO
TAX MAP No. 22 GRID No. B PARCEL No. 115 & P/O No. 7
THIRD ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
DATE: JANUARY 20, 2017
SHEET 5 OF 11

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
ELLCOTT CITY, MARYLAND 21042
(410) 461 - 2099

aps 8.5 x 11.dwg, 2/3/2017 9:20:20 AM, 1:1

K:\SDSKPROJ\71160 Boarman

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

INTERIM CERTIFICATE OF POTABILITY

Expiration Date – DECEMBER 25, 2020

June 25, 2020

Homeowner
3631 Paupers Folly Lane
West Friendship, MD 21794

RE: Belvedere Estates, Lot 5
3631 Paupers Folly Lane
Building Permit: B20000307
Well Permit: HO-17-0014

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 **5/14/2020**. Final approval of the well line connection to the dwelling was granted on **4/29/2020**. The well construction was completed on **3/17/2017**. Water samples were collected on **6/9/2020, 6/15/2020**.

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-17-0014. 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.**

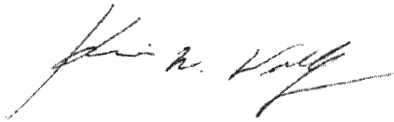
Please contact (410) 313-1773 to schedule a final water sample appointment or contact a Maryland certified water laboratory to schedule a water sample. A list of laboratories certified by the state of Maryland may be found at the following website:

<http://www.mde.state.md.us/assets/document/WSP-Labs-2010apr16.pdf>

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,



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

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

February 26, 2018

Homeowner
3631 Paupers Folly Lane
West Friendship, MD 21794

Dear Homeowner,

The Health Department received results from the testing for sodium, chloride, and total dissolved solids (TDS) from the well on your property.

Elevated sodium levels in drinking water may affect individuals on low-salt diets. The action level for sodium is 20 milligrams per liter (mg/L); **sodium from your well measured 9.64 mg/L.**

Chloride and TDS are both considered secondary contaminants, meaning high concentrations may affect taste, color, odor, or corrosive properties of water but present no risk to health. The secondary maximum contaminant level for chloride is 250 mg/L; **chloride from your well measured 34 mg/L.** The secondary maximum contaminant level for TDS is 500 mg/L; **TDS from your well measured 217 mg/L.**

Feel free to contact me at the number or email below with any questions regarding the results of water sampling.

Sincerely,



Sarah Collins, L.E.H.S.
Howard County Health Department
Well & Septic Program
SCollins@howardcountymd.gov
410-313-6287

Cc: Community Hygiene Program
File



Certificate of Analysis

HOWARD CO ENVIRONMENTAL HLTH
 8930 STANFORD BLVD
 COLUMBIA, MD 21045

Method: EPA 524.2 VOCs and THMs

Lab. No: E17004081001

Date Received: 04/17/2017
 Field ID: H01700141/2

Date Collected: 04/13/2017
 Submitted By: S. Collins

Date Analyzed: 04/20/2017

<u>Contaminant</u>	<u>RL</u>	<u>MCL</u>	<u>Result</u>	<u>Contaminant</u>	<u>RL</u>	<u>MCL</u>	<u>Result</u>
REGULATED				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-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				
TRIHALOMETHANES							
Bromodichloromethane	0.5		ND				
Bromoform	0.5		ND				
Chloroform	0.5		ND				
Dibromochloromethane	0.5		ND				
TOTAL THMs		80	0.00				
UNREGULATED							
1,1,1,2-Tetrachloroethane	0.5		ND				
1,1,1,2,2-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: 04/24/2017

*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: (443) 681-3853 Fax: (443) 681-4507



Certificate of Analysis

HOWARD CO ENVIRONMENTAL HLTH
 8930 STANFORD BLVD
 COLUMBIA, MD 21045

Lab. No: E17004081002

Method: EPA 524.2 VOCs and THMs

Date Received: 04/17/2017
 Field ID: H0170014FB1/2

Date Collected: 04/13/2017
 Submitted By: S. Collins

Date Analyzed: 04/20/2017

Contaminant	RL	MCL	Result	Contaminant	RL	MCL	Result
REGULATED				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-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				
TRIHALOMETHANES							
Bromodichloromethane	0.5		ND				
Bromoform	0.5		ND				
Chloroform	0.5		ND				
Dibromochloromethane	0.5		ND				
TOTAL THMs		80	0.00				
UNREGULATED							
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:

Sadia Hussain

04/24/2017

*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

Method: EPA 524.2 VOCs and THMs

Lab. No: E17004081003

Date Received: 04/17/2017
 Field ID: H0170014TB

Date Collected: 04/13/2017
 Submitted By: S. Collins

Date Analyzed: 04/20/2017

<u>Contaminant</u>	<u>RL</u>	<u>MCL</u>	<u>Result</u>	<u>Contaminant</u>	<u>RL</u>	<u>MCL</u>	<u>Result</u>
REGULATED				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-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				
TRihalOMETHANES							
Bromodichloromethane	0.5		ND				
Bromoform	0.5		ND				
Chloroform	0.5		ND				
Dibromochloromethane	0.5		ND				
TOTAL THMs		80	0.00				
UNREGULATED							
1,1,1,2-Tetrachloroethane	0.5		ND				
1,1,1,2,2-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:

Sadia Muneer

04/24/2017

*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: (443) 681-3853 Fax: (443) 681-4507

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
ORGANICS ANALYTICAL LABORATORY
 1770 Ashland Avenue
 BALTIMORE, MARYLAND 21205

Temperature Blank: NA °C
 NO Temp Blank, received
 on the survey A: 4/11/17

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: H0170014-1
H0170014-2 Plant/Site Name: Paupers Folly - Lot 5 County: Howard
 Location: H0-17-0014 Sample Source: Andrea Drive Dayton
Street Town or City
 Collector/ID: S. Collins Phone No.: 410-313-6287




013
County System No. PWSID Plant No. Date Collected Time Collected

Field Data: pH 6.5 Free CI: 0 Total CI:

Sample Type: Drinking water Landfill Source (water) Oil
 Private Stream Distribution (treated) Solid
 Community Soil/Sediment Water Treatment Plant POE Other
 Non-Community

Specify Program: SDWA NPDES RCRA CWA CERCLA Consumer Products
 Other

Test Requested	Field & Trip Blank	Preservative Used	Comment
<input type="checkbox"/> EPA Method 504.1 (EDB/DBCP)	<input type="checkbox"/> Field Blank	<input type="checkbox"/> Sodium thiosulfate	
<input type="checkbox"/> EPA Method 508 (Aroclors (SCAN only) & Toxaphene)	<input type="checkbox"/> Field Blank	<input type="checkbox"/> Sodium thiosulfate	
<input type="checkbox"/> EPA Method 515.3 (Herbicides)	<input type="checkbox"/> Field Blank	<input type="checkbox"/> Sodium thiosulfate	
<input type="checkbox"/> EPA Method 515.4 (Herbicides)	<input type="checkbox"/> Field Blank	<input type="checkbox"/> Sodium sulfite	
<input type="checkbox"/> EPA Method 525.2 (Pesticides)	<input type="checkbox"/> Field Blank	<input type="checkbox"/> HCL (6N) <input type="checkbox"/> Sodium sulfite	
<input type="checkbox"/> EPA Method 531.2 (Carbamates)	<input type="checkbox"/> Field Blank	<input type="checkbox"/> Potassium Citrate monobasic <input type="checkbox"/> Sodium thiosulfate	
<input type="checkbox"/> EPA Method 552.2 (Haloacetic acids)	<input type="checkbox"/> Field Blank	<input type="checkbox"/> Ammonium chloride	
<input type="checkbox"/> EPA Method 8270 (Semi-Volatiles) <input type="checkbox"/> Pesticides <input type="checkbox"/> Aroclors	<input type="checkbox"/> Field Blank	<input type="checkbox"/> Sodium thiosulfate	
<input checked="" type="checkbox"/> EPA Method 524.2 (Volatiles) <input checked="" type="checkbox"/> VOCS <input type="checkbox"/> THMs	<input checked="" type="checkbox"/> Field Blank <input checked="" type="checkbox"/> Trip Blank	<input checked="" type="checkbox"/> 1:1 HCL <input type="checkbox"/> 1:1 HCL + Ascorbic acid <input type="checkbox"/> Sodium thiosulfate	<u>H0170014FB-1</u> <u>H0170014FB-2</u> <u>H0170014TB</u>
<input type="checkbox"/> EPA Method 8260 (VOCs)	<input type="checkbox"/> Field Blank	<input type="checkbox"/> 1:1 HCL <input type="checkbox"/> 1:1 HCL + Ascorbic acid	

 E17004081001 Received: 04/17/2017 EPA 524.2 Trace Organics H01700141/2	 E17004081002 Received: 04/17/2017 EPA 524.2 Trace Organics H0170014FB1/2	 E17004081003 Received: 04/17/2017 EPA 524.2 Trace Organics H0170014TB
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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

Lab No. Date Received


E17004078001
 Received: 04/17/2017
 Metals HO-17-0014

LABORATORY ANALYSIS REQUEST

Please Print

Sample ID No: HO-17-0014 Site Name: Paupers Folly - Lot 5 County: Howard

Sample Source: Andrea Drive Dayton Collector: S. Collins
Street Town of City Name

Date Collected: 4/13/2017 Time Collected: 9:15 a.m. p.m. Phone #: 410-313-6287

Sample Preserved By: Field ESRL WMRL Central Lab
 Preservative Used: HNO₃ mL pH: <2, 4/17/17, SHS

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 after 1-hr pump of well.

✓	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) SHS			Potassium (K)	
	Thallium (Tl)			Uranium (U)	
				Vanadium (V)	

Lab Supervisor: _____

Date Reported: ____/____/____

• Phone: (443) 681-3857

• Fax: (443) 681-4507



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: E17004078 Date Coll.: 04/13/2017 Date Received 04/17/2017 Submitted By: Collins

Field ID: HO-17-0015
Lab No.: E17004078002

<u>Method</u>	<u>Element</u>	<u>Result</u>	<u>Units</u>	<u>Date Analyzed</u>
EPA 200.7	Sodium	9.64	ppm	04/18/2017

Comments:

Approved by: Sadia Muneer

Approval date: 04/20/2017

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

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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 NoE17004079 Date Coll. 04/13/2017 Date Received 04/17/2017 Submitted By:Collins

Field ID: HO-17-0014
Lab No.: E17004079001

<u>Analyte</u>	<u>Method</u>	<u>Result</u>	<u>Units</u>	<u>Date Analyzed</u>
Chloride	SM 4500-Cl E	34	mg/L	04/21/2017
Total Dissolved Solids	SM 2540C	217	mg/L	04/19/2017

Comments:

Approved by:

Approval date: 04/25/2017

*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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FOUNTAIN VALLEY ANALYTICAL LABORATORY, INC.

1413 Old Taneytown Rd. Westminster, MD (410) 848-1014 (410) 876-4554 FAX (410) 848-0298

REPORT OF ANALYSIS

Laboratory ID #: 137697 Account #: 1933
Reference: Belvedere Estates Lot 5 Company: Fogles Well Pump & Treatment
Location: 3631 Paupers Folly Lane Requested By: Dave Fogle
West Friendship, MD 21794 Source: Well Water
Date/ Time Collected: 6/9/2020 0800 Site: Pressure Tank
Date/Time Rec'd: 6/9/2020 1025 Treatment: None
Chlorine ppm: Free: ND Total: ND pH: 6.8
Collected By: B. Wilkerson 9315BW Well #: HO-17-0014

PARAMETERS	RESULTS	UNITS	REFERENCE	METHOD	DATE/TIME/ANALYST
Bacteria, Coliform, Total, MPN	<1.0	MPN/ 100 ml	<1.0	SM20 9223B	6/10/2020 / 1045 / CRS
Bacteria, E. coli, MPN	<1.0	MPN/ 100 ml	<1.0	SM20 9223B	6/10/2020 / 1045 / CRS
Nitrate	<1.0	mg/L	10	601	6/9/2020 / 1545 / CRS
Turbidity	56.4	NTU	<10	SM20 2130B	6/9/2020 / 1630 / CRS
Sand	ND	mg/L	5	Visual/Gravimetric	6/10/2020 / 0830 / CRS
Iron	3.20	mg/L	0.3*	FR, 45 (126)	6/10/2020 / 1445 / CRS

NOTES

- 1 *SMCL = Secondary Maximum Contaminant Level
- 2 mg/L = milligrams per liter (also, parts per million)
- 3 MPN/ 100 ml = Most Probable Number [of viable bacteria] per 100 ml of sample.
- 4 NTU = Nephelometric Turbidity Units
- 5 Results less than or within the reference range are considered satisfactory and within potable water limits at the time of sampling.
- 6 Sample collected by client, analyzed as received
- 7 ND:None Detected
- 8 Visual well check: Sealed, vented cap
- 9 pH and Chlorine level tested in lab (pH tested after recommended holding time)

Reason for Test : Use & Occupancy**Building Permit # :** B20000307Date Reported: 6/11/2020

FOUNTAIN VALLEY ANALYTICAL LABORATORY, INC.

1413 Old Taneytown Rd. Westminster, MD (410) 848-1014 (410) 876-4554 FAX (410) 848-0298

REPORT OF ANALYSIS

Laboratory ID #: 137816 Account #: 1933
Reference: Belvedere Estates Lot 5 Company: Fogles Well Pump & Treatment
Location: 3631 Paupers Folly Lane Requested By: Dave Fogle
West Friendship, MD 21794 Source: Well Water
Date/ Time Collected: 6/15/2020 1130 Site: Kitchen Sink Tap
Date/Time Rec'd: 6/15/2020 1219 Treatment: Sediment Filter/Softener
Chlorine ppm: Free: ND Total: ND pH: 6.3
Collected By: B. Wilkerson 9315BW Well #: HO-17-0014

PARAMETERS	RESULTS	UNITS	REFERENCE	METHOD	DATE/TIME/ANALYST
Turbidity	0.92	NTU	<10	SM20 2130B	6/16/2020 / 0920 / BCD
Iron	0.05	mg/L	0.3*	FR, 45 (126)	6/16/2020 / 1150 / CRS

NOTES

- 1 *SMCL = Secondary Maximum Contaminant Level
- 2 NTU = Nephelometric Turbidity Units
- 3 Results less than or within the reference range are considered satisfactory and within potable water limits at the time of sampling.
- 4 Sample collected by client, analyzed as received
- 5 ND:None Detected
- 6 Visual well check: Sealed, vented cap
- 7 pH and Chlorine level tested in lab (pH tested after recommended holding time)

Reason for Test : Use & Occupancy**Building Permit # :** B20000307Date Reported: 6/16/2020

FOUNTAIN VALLEY ANALYTICAL LABORATORY, INC.

1413 Old Taneytown Rd. Westminster, MD (410) 848-1014 (410) 876-4554 FAX (410) 848-0298

REPORT OF ANALYSIS

Laboratory ID #: 137816 Account #: 1933
Reference: Belvedere Estates Lot 5 Company: Fogles Well Pump & Treatment
Location: 3631 Paupers Folly Lane Requested By: Dave Fogle
West Friendship, MD 21794 Source: Well Water
Date/ Time Collected: 6/15/2020 1130 Site: Kitchen Sink Tap
Date/Time Rec'd: 6/15/2020 1219 Treatment: Sediment Filter/Softener
Chlorine ppm: Free: ND Total: ND pH: 6.3
Collected By: B. Wilkerson 9315BW Well #: HO-17-0014

PARAMETERS	RESULTS	UNITS	REFERENCE	METHOD	DATE/TIME/ANALYST
Turbidity	0.92	NTU	<10	SM20 2130B	6/16/2020 / 0920 / BCD
Iron	0.05	mg/L	0.3*	FR, 45 (126)	6/16/2020 / 1150 / CRS

NOTES

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Reason for Test : Use & Occupancy

Building Permit # : B20000307

Date Reported: 6/16/2020