

(THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS) COUNTY NUMBER **13**
 ST/CO USE ONLY DATE RECEIVED **02/23/17** DATE WELL COMPLETED **2-17-2017** Depth of Well **165'** PERMIT NO. FROM "PERMIT TO DRILL WELL" **OK 2/24/17 SC HO-17-0009**

OWNER **Spelman** **Joe**
 WELL SITE ADDRESS **242.5 Miller Mill Rd** TOWN **Cooksville**
 SUBDIVISION **Spelman Property** SECTION _____ LOT _____

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	
Sand Stone	0	54	
Mica Rock	54	165	
Water	120'-145'		

GROUTING RECORD (yes no
 WELL HAS BEEN GROUTED (Circle Appropriate Box) **Y** **N**
 TYPE OF GROUTING MATERIAL (Circle one)
 CEMENT **CM** BENTONITE CLAY **BC**
 NO. OF BAGS **15** NO. OF POUNDS **1410**
 GALLONS OF WATER **90**
 DEPTH OF GROUT SEAL (to nearest foot)
 from **0** ft. to **56** 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 **ST** Nominal diameter top (main) casing (nearest inch)! **6** Total depth of main casing (nearest foot) **58**

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

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

C 2 DEPTH (nearest ft.)
HO **56** **165**
 A C H S R E E N
 8 9 11 15 17 21 23 24 26 30 32 36 38 39 41 45 47 51
 SLOT SIZE 1 _____ 2 _____ 3 _____
 DIAMETER OF SCREEN _____ (NEAREST INCH) _____
 from _____ to _____

GRAVEL PACK IF WELL DRILLED WAS FLOWING WELL INSERT F IN BOX 68 _____

MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER)
 T _____ (E.R.O.S.) W Q _____
 70 _____ 74 75 76 _____
 TELESCOPE CASING LOG INDICATOR OTHER DATA

C 3 **PUMPING TEST**
 HOURS PUMPED (nearest hour) **3**
 PUMPING RATE (gal. per min.) **20**
 METHOD USED TO MEASURE PUMPING RATE **Bucket**
 WATER LEVEL (distance from land surface)
 BEFORE PUMPING **22** ft.
 WHEN PUMPING **42** ft.
 TYPE OF PUMP USED (for test)
A air **P** piston **T** turbine
C centrifugal **R** rotary **O** other (describe below)
J jet **S** submersible

PUMP INSTALLED
 DRILLER INSTALLED PUMP (CIRCLE) (YES or NO) YES NO
 IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS.
 TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O) IN BOX 29 _____
 CAPACITY: GALLONS PER MINUTE (to nearest gallon) 31 _____ 35 _____
 PUMP HORSE POWER 37 _____ 41 _____
 PUMP COLUMN LENGTH (nearest ft.) 43 _____ 47 _____
 CASING HEIGHT (circle appropriate box and enter casing height)
+ above } LAND SURFACE
- below } **2** (nearest foot)

LATITUDE **39.30926**
 LONGITUDE **77.02229**
 (DEFAULT COORD. WGS 84)
 NOTES:

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. **MSD 117**
PLE Meyer
 DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION)
 LIC. NO. **MSD 027**

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

B 1 SEQUENCE NO. (MDE USE ONLY) **42861** STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL please type **559871** STATE PERMIT NUMBER **HO-17-0009**
1 2 3 6 70 fill in this form completely 79

OWNER INFORMATION
 Date Received (APA) 2/17/17
8 MM DD YY 13
 Last Name SPELLMAN Owner First Name JOE
 Street or RFD PO Box 23
 Town ASHTON MD State MD Zip 20861

B 3 LOCATION OF WELL
 COUNTY Howard
 SUBDIVISION SPELLMAN Property
 SECTION 44 LOT 48
 NEAREST TOWN Ashtown (BOOKSILLICE)

DRILLER INFORMATION
 Driller's Name Ralph E. MAYNE License No. M SD 117
 Firm Name Ralph MAYNE well DRILLING
 Address 25900 Ridge Manor DR. DAMASCUS MD 20822
 Signature Ralph E. Mayne Date Dec 3, 2016

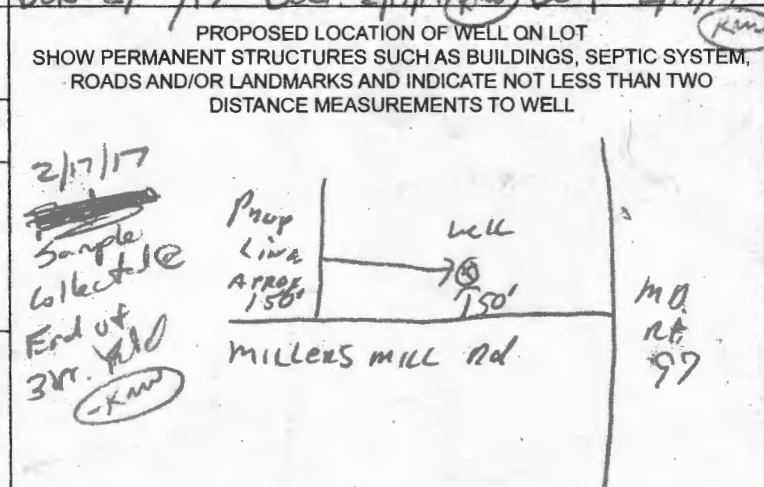
B 4 SOURCES OF DRILLING WATER
 1. well
 2. HCHD
 3. -No one onsite well covered
 STREET ADDRESS 2425 MILLERS MILL Rd
 ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)
 NORTH WEST EAST SOUTH
 DISTANCE FROM ROAD ENTER FT OR MI: 50 FT
 TAX MAP: 14 BLK: 4 PARCEL 0288 268

B 2 WELL INFORMATION
 APPROX. PUMPING RATE (GAL. PER MIN.) 5
 AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) 500

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

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL
 COUNTY NAME Howard COUNTY NO. 13
 STATE SIGNATURE _____ INSERT S → _____
 DATE ISSUED 1/31/17 CO SIGNATURE Seb LK EXP. DATE 1/31/19
43 MM DD YY 48

APPROXIMATE DEPTH OF WELL 150 FEET
 APPROXIMATE DIAMETER OF WELL 6" NEAREST INCH



METHOD OF DRILLING (circle one)
 BORED (or Augered) AIR-ROTARY JETTED 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 DEEPEAN 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)
 APPROP. PERMIT NUMBER _____
 PERMIT No. HO-17-0009

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.

SPECIAL CONDITIONS
 NOTE: APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED
Existing well must be sealed. Sodium chloride +TDS
Sampler req'd at yield.

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
2/24/17sc

DATE WELL ABANDONED: 2-17-2017 (month/day/year)

* PERMIT NUMBER OF ABANDONED WELL (if any) none

* PERMIT NUMBER OF REPLACEMENT WELL: Ho-17-0009

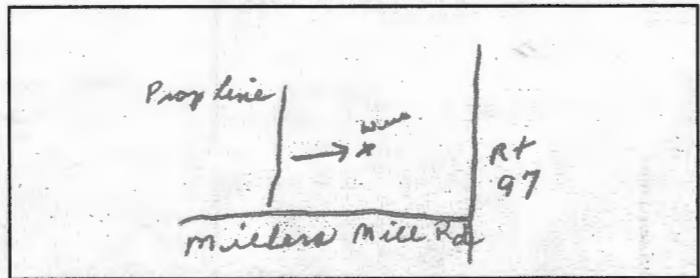
* PERSON ABANDONING WELL: Larry Mayne WELL DRILLER'S LICENSE NUMBER: MSD 027

CIRCLE: MWD / MSD / MGD

* OWNER'S NAME: Joe Spellman

SITE LOCATION MAP

* WELL LOCATION:
COUNTY: Howard
NEAREST TOWN: Cooksville
TAX MAP 14 BLOCK 4 PARCEL 248
SUBDIVISION: _____
SECTION: _____ LOT: _____
STREET ADDRESS: 2425 Millers Mill Rd



LATITUDE 39.30919

LONGITUDE 77.02227

LOG OF SEALING MATERIAL

MATERIAL	FEET	
	FROM	TO
<u>Cement</u>	<u>0</u>	<u>55</u>
VOLUME OF MATERIAL USED		
<u>2350 lb cement</u>		

* 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: 5 3/8 INCHES IN DIAMETER

DEPTH OF WELL: 55 FEET DEEP

WAS ANY CASING REMOVED? YES NO
If yes, length removed, in feet: _____

WAS CASING RIPPED OR PERFORATED? YES NO

Larry Mayne
SIGNATURE-MASTER WELL DRILLER OR SUPERVISING SANITARIAN LICENSE#

MSD027 MWD / MSD / MGS 2-21-2017 DATE

COUNTY

CIRCLE ONE



HOWARD COUNTY HEALTH DEPARTMENT

59871

DATE 12/21/16

WS

Received From

Spellman Properties

PHONE #

For Well Permit/2425 Yellers Mill Rd.

CASH
 CHECK

NO 1879

One hundred sixty Dollars

\$ 160.00

Received By J. King

Wolf, Kevin

From: John Carney <jcarney@bei-civilengineering.com>
Sent: Friday, January 13, 2017 9:53 AM
To: Wolf, Kevin
Subject: Spellman Property - Millers Mill Road

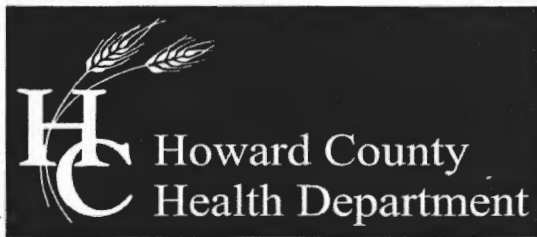
Kevin, below is the response we just got from Mr. Spellman regarding the well box staking on his property.

Go ahead and do the well/box stakeout ASAP. The well driller is anxious to get this wrapped up and retire to Colorado. He may have already moved but the business is continuing with other family members taking over.

We have the well box staking on the survey schedule for the middle of next week.

We will provide a stakeout cert once it is done. If you have any other questions let me know. John

John M. Carney, P.E.
Benchmark Engineering, Inc.
8480 Baltimore National Pike, Suite 315
Ellicott City, MD 21043
jcarney@bei-civilengineering.com
410-465-6105 Ext. 1152



Bureau of Environmental Health

8930 Stanford Blvd, Columbia, MD 21045
Main: 410-313-2640 | Fax: 410-313-2648
TDD 410-313-2323 | Toll Free 1-866-313-6300
www.hchealth.org

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

March 15, 2017

Joe Spellman
PO Box 23
Ashton, MD 20861

Dear Mr. Spellman,

The Health Department recently collected water samples to test for sodium, chloride, and total dissolved solids (TDS) from the well recently drilled at 2425 Millers Mill Road.

Sodium levels measured 38 milligrams per liter (mg/L). The action level for sodium is 20 mg/L; higher levels could affect individuals on low-salt diets. Chloride levels were 145 mg/L and TDS levels were 442 mg/L. The secondary maximum contaminant levels for chloride and TDS are 250 mg/L and 500 mg/L, respectively. Chloride and TDS are secondary contaminants, meaning high concentrations can affect taste, color, odor, or corrosivity of water but present no risk to health.

In addition to standard parameters, the Health Department would like to collect sodium, chloride, and TDS samples at time of Interim Certificate of Potability (ICOP) and Final Certificate of Potability (FCOP) testing. Further testing at other times of the year could show different levels of sodium, chloride, and TDS.

Based on the results of our testing, you may want to consider a treatment system for the drinking water in the future house on the property. Please contact the Health Department to discuss the type of system and disposal parameters prior to selection and installation of a treatment system.

Feel free to contact me with any questions.

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

**HOWARD COUNTY HEALTH DEPARTMENT
BUREAU OF ENVIRONMENTAL HEALTH
WATER AND SEWERAGE PROGRAM
TEL: (410)313-2640 FAX: (410)313-2648**

Information Form for the Installation of the Well Pump, Pitless Adapter, and Supply Piping

NOTE: The installer is responsible for requesting an inspection prior to 9 am on the day of the desired inspection. No work is to be covered until approved by the Health Department. All installations must comply with the National Standard Plumbing Code (NSPC, as amended locally) and COMAR 26.04.04 (MD Well Construction Regulations). Submission of a complete form is required prior to Use and Occupancy approval.

Company Name: WREB Son Plumbing & Heating Inc Telephone #: 301 829 1711
Address: 15 N. MAIN ST
Mt Airy MD 21771

(Must circle one) Licensed Plumber Licensed Well Driller Licensed Well Pump Installer

License # and name of individual responsible for the field installation:
Name (Print): Christopher B. FORMAN License# 7945-01

*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: Joseph Spellman Telephone #: 301 661 1643
Subdivision: Millers Mill Rd Lot #: NA Well Tag #: HO-17-0009 ✓ 03/06/2018
Site Address: 2425 Millers Mill Rd
Cooksville MD 21723

Submersible Pump Data	Pitless Adapter	Well Cap and Electric Conduit
Make: <u>Grundfos</u>	Make: <u>BIF Boshart</u>	Two piece watertight cap: <u>✓</u>
Model #: <u>155 Q 2 AD-220</u>	Model#: <u>P-100-SS</u>	Screened, vented well cap: <u>✓</u>
Pump Capacity <u>15</u> GPM	Depth: <u>40'</u> (36" min)	Cap secured to casing: <u>✓</u>
Well Yield: <u> </u> GPM	NSF/WSC approved: <u>✓</u>	Conduit min 18" B.G.: <u>✓</u>
Depth of well encountered at time of pump installation: <u>165</u> (feet) <u>Ⓚ</u>		Conduit secured to well cap: <u>✓</u>

If pump capacity exceeds well yield, a low water cut off switch is required by NSPC 1990 Section 17.8.4
Torque arrestors, Cable guards, or other acceptable method used- Must circle one Pump Set @ 150'
Safety rope, if used, attached to brass rope adapter or other acceptable method inside of well casing

Piping to house	House Connection
Type: <u>1" Cu Silverline</u>	PVC sleeve to undisturbed soil at wall penetration: <u>✓</u>
PSI: <u>250</u> (160 psi min)	Approximate length of sleeve: <u>5'</u>
Depth of supply line: <u>40'</u> (36" min)	Sleeve caulked and sealed properly: <u>✓</u>

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

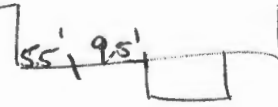
Signature of company representative responsible for installation: [Signature] date: 3/6/18

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

Date Insp. Requested: 03/06/18 Date Insp. Approved: 03/06/18 Inspector: [Signature]

Inspection Data: Pitless adapter watertight & water supply line at least 36" below grade	<u>✓</u> 39" 3/6/18 <u>[Signature]</u>
Two piece cap installed and attached to casing securely	<u>✓</u>
Elec. conduit extends at least 18" below grade/attached to cap properly	<u>✓</u> 39" 3/6/18 <u>[Signature]</u>
Safety rope not seen outside of well cap/casing	<u>✓</u>
Correct well tag attached properly and casing 8" above finished grade	<u>✓</u> 8" 3/6/18 <u>[Signature]</u>
Water supply line sleeved adequately at house connection	<u>✓</u> 5" 3/6/18 <u>[Signature]</u>
Adequate grout observed below pitless adapter	<u>✓</u>

En House
3/6/18 [Signature]



INTERIM CERTIFICATE OF POTABILITY

Expiration Date – MAY 8, 2020

November 8, 2019

Homeowner
2425 Millers Mill Road
Cooksville, MD 21723

**RE: Spellman Property, P. 30
2425 Millers Mill Road
Building Permit: B17002303
Well Permit: HO-17-0009**

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 **7/20/2019**. Final approval of the well line connection to the dwelling was granted on **3/6/2018**. The well construction was completed on **2/17/2019**. Water samples were collected on **3/29/2019**.

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-17-0009. 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 septic 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

PARCEL 165
DANIEL HOWARD
L.13312 F.422
ZONE: RC-DEO

PAR
L.34
ZONE:

*pave cert.
signed 1/23/17*

p/o
TERTIARY
SYSTEM
S80°52'47"E

EX. SEPTIC SYSTEM

EX. DWELLING

EX. DRIVEWAY

EX. SEPTIC SYSTEM

SECONDARY SYSTEM

PRIMARY TRENCHES

EX. DWELLING

WELL TAG NO.
H02-73-0157

10,532 S.F. SEPTIC RESERVE AREA

PERC. 6
597.8

PERC. 7
599.9

p/o
TERTIARY
SYSTEM

PERC. 2
593.1

PERC. 1
596.3

PERC. 5
594.6

PUMP TANK

PARCEL 268
JOSEPH J. SPELLMAN
L.15653 F.282
ZONE: RC-DEO
1.94 AC.

PERC. 4
596.4
FAIL

DECK

PROP. DWELLING
FF=605.5
BF=595.5
CNS

GAR.

PROP. WELL

EX. WELL TO BE ABANDONED

1500 S.F. WELL RESERVE AREA

MILLERS MILL ROAD

EX. EDGE OF PAVING

GRAVEL DRIVE

294.44'

N06°38'15"E

S89°38'58"W

S80°52'47"E

WI
H

S45°27'17"E

100'R

EX. DRIVEWAY

EX. WIRE FENCE

PROP. DRIVEWAY

OLD FOUNDATION

2R

3.0%

50' BRL

114.1'

211.77'

100'

98'

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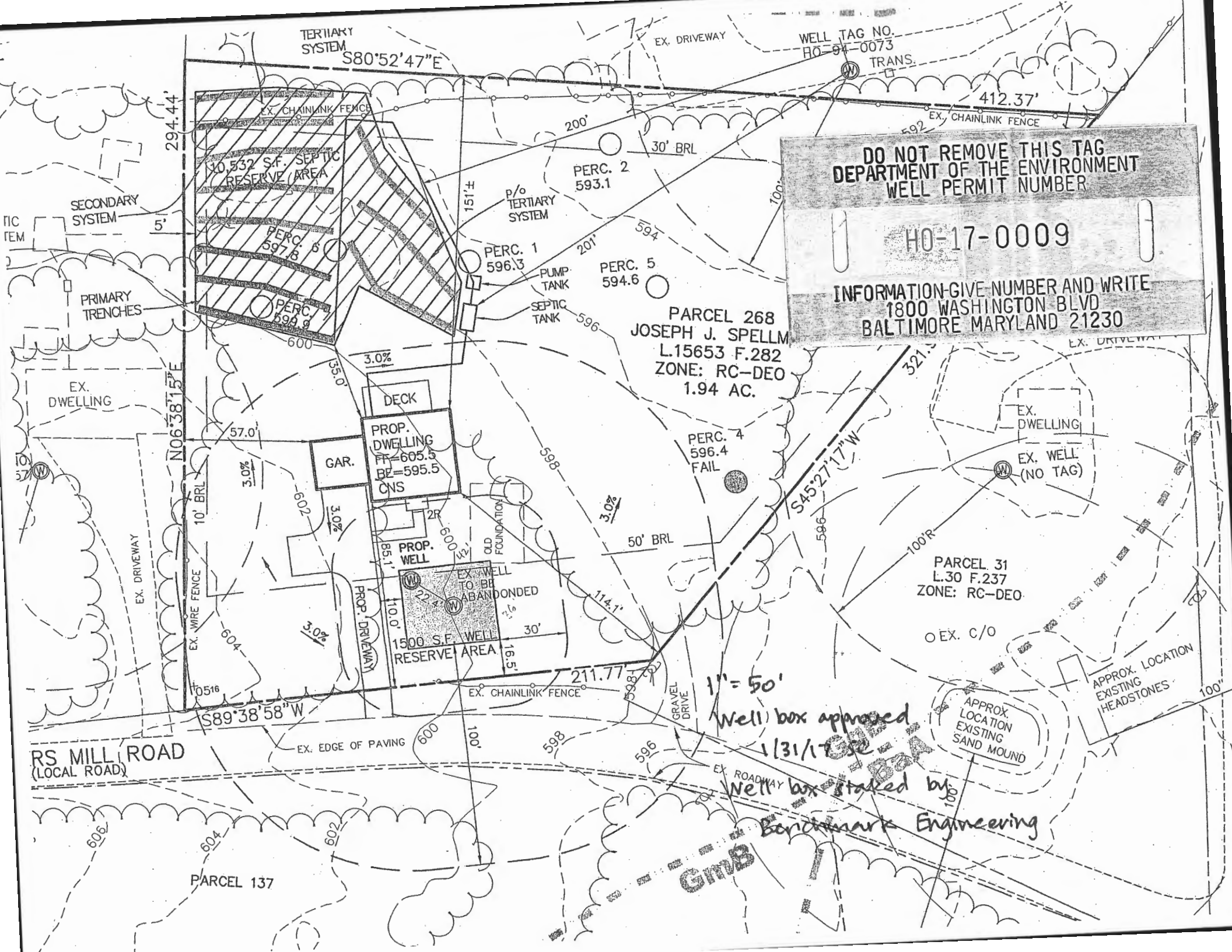
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DO NOT REMOVE THIS TAG
DEPARTMENT OF THE ENVIRONMENT
WELL PERMIT NUMBER

HO-17-0009

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

PARCEL 268
JOSEPH J. SPELLM
L.15653 F.282
ZONE: RC-DEO
1.94 AC.

PARCEL 31
L.30 F.237
ZONE: RC-DEO

PARCEL 137

RS MILL ROAD
(LOCAL ROAD)

1" = 50'
Well box approved
1/31/17

Well box staked by
Benchmark Engineering

GMB

APPROX. LOCATION
EXISTING
SAND MOUND

APPROX. LOCATION
EXISTING
HEADSTONES

1500 S.F. WELL
RESERVE AREA

10,532 S.F. SEPTIC
RESERVE AREA

PROP. DWELLING
FT=605.3
BE=595.5
CNS

PROP. WELL

EX. WELL
TO BE
ABANDONED

PERC. 2
593.1

PERC. 1
596.3

PERC. 5
594.6

PERC. 4
596.4
FAIL

PERC. 6
597.8

PERC. 3
599.8

P/O
TERTIARY
SYSTEM

PUMP
TANK

SEPTIC
TANK

SECONDARY
SYSTEM

PRIMARY
TRENCHES

EX. DWELLING

EX. DWELLING

EX. WELL
(NO TAG)

EX. C/O

294.44'

N06°38'15"E

S89°38'58"W

TERTIARY
SYSTEM
S80°52'47"E

WELL TAG NO.
HO-04-0073
TRANS.

412.37'

200'

30' BRL

PERC. 2
593.1

PERC. 1
596.3

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594.6

PERC. 4
596.4
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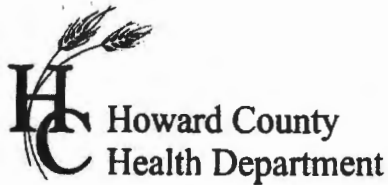
TERTIARY
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WELL TAG NO.
HO-04-0073
TRANS.

412.37'

200'

30' BRL



7178 Columbia Gateway Dr., Columbia, MD 21046
(410) 313-2640 Fax (410) 313-2648
TDD (410) 313-2323 Toll Free 1-866-313-6300
website: www.hchealth.org

Peter L. Bielensohn, M.D., M.P.H., Health Officer

TO ALL INTERESTED PARTIES

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

Well Site Location:

SPELLMAN Proj - 2495 MILLENS MILL RD.
Subdivision/Property Name Lot # Road Name

- The well site has been staked by BENCHMARK Eng. Inc,
(professional land surveyor or company employing professional land surveyors)
on NOV 30 2016 (date) and does not require a site inspection.

- The well driller, builder or property owner will call the Health Department to schedule a time to meet in the field to verify the proposed well site location.

This sheet, along with two copies of an acceptable well site plan, must be attached to the green well permit application.

Revised 3/11/07

July 10, 2015

Jeff Williams, Program Supervisor
Well and Septic Program
Howard County Health Department
8930 Stanford Blvd.
Columbia, MD 21045

Re: Millers Mill Road, Tax Map 14, Parcel 268
2425 Millers Mill Road – Joseph J. Spellman
Septic Reserve Area setback variance request for #2425 Millers Mill Road from existing
private water well at 2204 Roxbury Mill Road, Tag Number HO-94-0073

Mr. Williams:

I am writing to request a variance from the Maryland Department of the Environment for the separation distance between on-lot septic reserve area and components to an existing well. The landscape position of the well on parcel 139 is down gradient of septic components or disposal area planned on my property, parcel 268.

I own parcel 268, which is known as 2425 Millers Mill Road. Parcel 139 is a neighboring parcel known as 2204 Roxbury Mill Road. The required location of my 10,000 square foot septic reserve area and the required BAT tank for my parcel is 183' from the field located well on parcel 139. Both of these parcels are in Howard County, Maryland.

I have maintained approximately 183' of horizontal separation distance between the well on Parcel 139, tag number HO-94-0073, and the new on-lot septic system for Parcel 268.


After discussions with the Howard County Health Department about how best to address the concern of the existing well at 2204 Roxbury Mill Road being down gradient of the proposed septic system of Parcel 268, it is proposed to locate the proposed sewage system to the most distant location possible. Howard County Health Department has recommended a 5' separation between the western boundary line and the edge of the septic reserve area. Additionally, this system will be constructed in accordance with the requirements of MDE and the approval conditions associated with this variance request. We have included the following note on the Percolation Certification Plan that specifies several mitigations:

“MARYLAND DEPARTMENT OF THE ENVIRONMENT HAS ACCEPTED OUR VARIANCE REQUEST UNDER THE CODE OF MARYLAND REGULATIONS 26.04.02.05(C) TO ALLOW; THE PROPOSED SEWAGE DISPOSAL SYSTEM SERVING ON THE JOSEPH J. SPELLMAN PROPERTY (2425 MILLERS MILL ROAD) TO BE LOCATED UP GRADIENT FROM THE EXISTING PRIVATE WATER WELL (HO-94-0073) LOCATED AT 2204 ROXBURY MILL ROAD. DUE TO THE LANDSCAPE POSITION OF THE SEWAGE AREAS AND WELL, THE REQUEST WAS APPROVED SUBJECT TO THE FOLLOWING CONDITIONS:

1. AN ADVANCED PRE-TREATMENT SYSTEM WHICH UTILIZES BEST AVAILABLE TECHNOLOGY TO PERFORM NITROGEN REDUCTION AND LOW PRESSURE DOSING MUST BE INSTALLED ON THE SEWAGE DISPOSAL SYSTEM AT 2425 MILLERS MILL ROAD. IN ADDITION, ONGOING MAINTENANCE IS REQUIRED. AN AGREEMENT ACKNOWLEDGING THE NEED FOR MAINTAINING A SERVICE CONTRACT WITH AN AUTHORIZED SERVICE PROVIDER MUST BE RECORDED IN THE HOWARD COUNTY LAND RECORDS FOR THIS LOT WITHIN 30 DAYS AFTER PLAT RECORDATION. BUILDING PERMIT APPLICATIONS FOR THE RESPECTIVE LOT WILL NOT BE APPROVED UNTIL SUCH AN AGREEMENT IS RECORDED. BEFORE A SEPTIC SYSTEM INSTALLATION PERMIT IS RELEASED FOR THE ADVANCED PRE-TREATMENT SYSTEM, A SITE PLAN MUST SUBMITTED WITH ALL NECESSARY DETAILS FOR INSTALLATION OF THE SYSTEM.

If you have any question please feel free to contact me at 301-661-6413 or spellmans4@verizon.net.

Sincerely,



Mr. Joseph Spellman
18000 Highfield Road
Ashton, MD 20861



Office of the Health Officer

7178 Columbia Gateway Drive, Columbia, MD 21046-2147

Main: 410-313-6300 | Fax: 410-313-6303

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

www.hchealth.org

Facebook: www.facebook.com/hocohealth

Twitter: [HowardCoHealthDep](https://twitter.com/HowardCoHealthDep)

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

TO: C/O John Carney
Benchmark Engineering, Inc.

FROM: Dana Bernard, R.E.H.S./L.E.H.S
Environmental Specialist II
Well and Septic Program
Development and Coordination

RE: Spellman Property
2425 Millers Mill Road
Percolation Certification Plan

DATE: July 9, 2015

The following comments apply to the plan prepared by Benchmark Engineering Inc. Applicant is advised to revise and resubmit.

- ✚ GAP note should be removed.
- ✚ Remove subdivision reference in line 8.
- ✚ Redesign septic easement to reflect recommended shape shown in the attached drawing (Exhibit 1). You may also place the sides of your SDA five feet away from the property line.
- ✚ You will be required to use BAT technology and low pressure dosing.
- ✚ A variance note should be added to your general note section stating the following:

Maryland Department of the Environment has accepted our variance request under the *Code of Maryland Regulations 26.04.02.05 (C)* to allow: the proposed sewage disposal system serving on the Joseph J. Spellman Property (2425 Millers Mill Road) to be located up gradient from the existing private water well (HO-94-0073) located at 2204 Roxbury Mill Road. Due to the landscape position of the sewage areas and well, the request was approved subject to the following conditions:

1. An advanced pretreatment system which utilizes best available technology to perform nitrogen reduction and low pressure dosing must be installed on the sewage disposal system at 2425 Millers Mill Road. In addition, ongoing maintenance is required. An agreement acknowledging the need for maintaining a service contract with an authorized service provider must be recorded in the Howard County Land Records for this lot within 30 days after plat recordation. Building permit applications for the respective lot will not be approved until such an agreement is recorded. Before a septic system installation permit is released for the advanced pre-treatment system, a site plan must be submitted with all necessary details for installation of the system.

- ✦ We need to get MDE approval for the down gradient well **before the percolation certification plan can be approved.** We will recommend a variance to MDE and they usually go along with our recommendation.

The next step in this process is to submit a Percolation Certification Plan to confirm the redesign of the septic reserve area and submit a variance request signed by the homeowner. If you have any questions regarding this evaluation or requirements for the Percolation Certification Plan revision, please contact me at the above address or by telephone at (410) 313-2775.

Sincerely,



Dana Bernard, R.E.H.S./L.E.H.S
Environmental Specialist II
Bureau of Environmental Health,
Well and Septic Program
Phone (410) 313-2775
Fax (410) 313-2648
E-mail: DBernard@howardcountymd.gov

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 #: 129293 Account #: 30061
Reference: Joe Spellman Company: CASH ACCOUNT
Location: 2425 Millers Mill Road Requested By: Joe Spellman
Cooksville, MD 21723 Source: Well Water
Date/ Time Collected: 3/29/2019 1035 Site: Pressure Tank
Date/Time Rec'd: 3/29/2019 1352 Treatment: **
Chlorine ppm: Free: ND Total: ND pH: 6.2
Collected By: J. Yeager 6176JY Well #: HO-17-0009

PARAMETER	RESULTS	UNITS	REFERENCE	METHOD	DATE/TIME/ANALYST
Bacteria, Coliform, Total, MPN	<1.0	MPN/ 100 ml	<1.0	SM20 9223B	3/30/2019 / 0815 / CCH
Bacteria, E. coli, MPN	<1.0	MPN/ 100 ml	<1.0	SM20 9223B	3/30/2019 / 0815 / CCH
Nitrate	4.03	mg/L	10	601	3/29/2019 / 1430 / CRS
Turbidity	2.64	NTU	<10	SM20 2130B	3/29/2019 / 1445 / CRS
Sand	NS	mg/L	5	Visual/Gravimetric	3/29/2019 / 1445 / CRS

NOTES

- 1 ** Sample collected prior to Sediment Filter
- 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 NS = None Seen (NS indicates less than 5 mg/L)
- 5 NTU = Nephelometric Turbidity Units
- 6 Results less than or within the reference range are considered satisfactory and within potable water limits at the time of sampling.
- 7 ND:None Detected
- 8 Visual well check: Sealed, vented cap
- 9 pH & Chlorine level tested on site

Reason for Test : Use & Occupancy
Building Permit # : 17002303

Date Reported: 4/1/2019

Send Report To:

Dart Nixon

~~Howard County Health Department~~
~~Bureau of Environmental Health~~
~~8930 Stanford Blvd.~~
Columbia, Maryland 21045

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

LABORATORY ANALYSIS REQUEST

Lab No. Date Received



E17003261001

Received: 02/22/2017

Metals

HOKWNa0009

Do not write above this line

Please Print

Sample ID No: HOKW NA 0009 Site Name: Spellman Property County: Howard

Sample Source: 2425 Millers Mill Rd. HO-17-0009 Collector: K. Wolf
Street Town or City Name

Date Collected: 2/21/2017 Time Collected: 12 a.m. 12 p.m. Phone #: 410 313-2645

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

Sample Type: Drinking Water Landfill Source (Raw Water) Liquid
 Community Stream Distribution (Treated) Solid
Data Category 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 preserved HNO₃ →

✓	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>JMS</u>			Potassium (K)	
	Thallium (Tl)			Uranium (U)	
				Vanadium (V)	

Lab Supervisor: _____

Date Reported: / /

•Phone: (443) 681-3857

•Fax: (443) 681-4507

DHMH 4432 (05/15)

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: E17003261 Date Coll.: 02/21/2017 Date Received 02/22/2017 Submitted By: Wolf

Field ID: HOKWNa0009
Lab No.: E17003261001

<u>Method</u>	<u>Element</u>	<u>Result</u>	<u>Units</u>	<u>Date Analyzed</u>
EPA 200.7	Sodium	37.89	ppm	02/27/2017

Comments:

Approved by: Yungtao Choi

Approval date: 03/01/2017

**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.

Telephone: (443) 681 - 3853

Fax: (443) 681-4507

S:\EnviroFinal-Metals.rpt



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 NoE17003259 Date Coll. 02/21/2017 Date Received 02/22/2017 Submitted By:K. Wolf

Field ID: HOKWTDS0009
Lab No.: E17003259001

<u>Analyte</u>	<u>Method</u>	<u>Result</u>	<u>Units</u>	<u>Date Analyzed</u>
Chloride	SM 4500-Cl E	145	mg/L	02/28/2017
Total Dissolved Solids	SM 2540C	442	mg/L	02/22/2017

Comments:

Approved by:

Shabbar Anali

Approval date: 02/28/2017

*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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Send Report To:

Best Nixon

State of Maryland
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TRACE METALS LABORATORY
1770 Ashland Avenue
Baltimore, Maryland 21205

Lab No. Date Received

Do not write above this line

Howard County Health Department
Bureau of Environmental Health
8930 Stanford Blvd.
Columbia, Maryland 21045

LABORATORY ANALYSIS REQUEST

Please Print

Sample ID No: HOKW NA0009 Site Name: Spellman Property County: Howard

Sample Source: 2425 Millers Mill Rd. HO-17-0009 Collector: K. Wolf
Street Town or City Name

Date Collected: 7/21/2017 Time Collected: 12 a.m. 12 p.m. Phone #: 410-313-2645

Sample Preserved By: Field ESRL WMRL Central Lab

Preservative Used: HNO₃ _____ mL pH: _____

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 preserved HNO₃ ->

✓	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)	
				Vanadium (V)	

Lab Supervisor: _____

Date Reported: ___/___/___

•Phone: (443) 681-3857

•Fax: (443) 681-4507

