

Bureau of Environmental Health

8930 Stanford Boulevard, Columbia, MD 21045

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

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

www.hchealth.org

Facebook: www.facebook.com/hocohealth

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

February 27, 2017

To: Elizabeth Van Norman C/O Bert Newcomer, Vanmar Associates, Inc.

Percolation Test Report; Mill Green, Lot 5, Section 2 (Map 13, Grid 22, Parcel 101), 3168 Jennings Chapel Road, Woodbine, MD 21797

Percolation tests were conducted at 3168 Jennings Chapel Road (Tax Map 13, Parcel 101, Mill Green, Lot 5) on February 23, 2017. Tests and profile descriptions were documented for 5 locations. All test holes passed.

All percolation tests conducted were standard tests, measuring rate of fall for a pre-wet period followed by measurement and recordation of the time required for the water level to drop 1 inch. Areas that may be included in the septic reserve area are represented by test locations having satisfactory soil condition. The area must be at least 10,000 square feet for the planned residence.

The next step in the process is to have an engineer/consultant submit a percolation certification plan to confirm the design of the septic reserve area. The final plan must include the perc test numbers and show a 30 foot minimum separation between the house and the well box. Also, change symbol for existing well on lot 4 to match legend.

Should you have any questions regarding this evaluation, please contact me. I may be reached at (410) 313-1786 or by email hoswald@howardcountymd.gov

Respectfully,

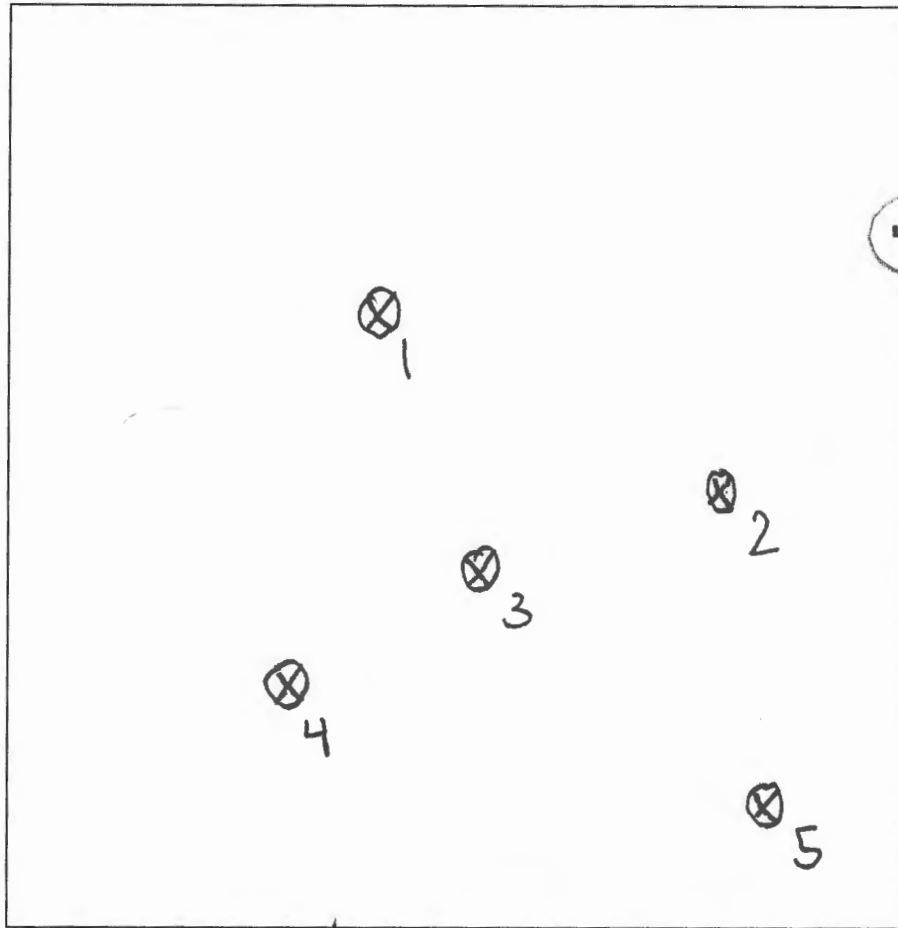
Hank Oswald

Hank Oswald, L.E.H.S
Bureau of Environmental Health
Well & Septic Program

Attachment: Percolation Field Notes

A560535

A/P



Jennings Chapel Road

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
2/23/17	1	4 1/2'	10:14	10:33	too long		F
2/23/17	2	4 1/2'	9:17	9:20	9:27	7	P
2/23/17	3	4 1/2'	8:49	8:55	9:07	12	P
2/23/17	4	5 1/2'	8:54	9:03	9:15	12	P
2/23/17	5	4 1/2'	9:39	9:45	10:00	15	P
2/23/17	1	5 1/2'	11:03	11:14	11:41	27	P

REMARKS map 13 Grid 22 P. 101, Lot 5 (Mill Green)
 SANITARIAN _____ BACKHOE Level Land OTHERS Best Newcomer
 TEST HOLES USED IN SDA _____ "Mark" _____ AVG. PERC TIME _____ SQ. FT/BR _____
 TRENCH WIDTH _____ INLET DEPTH _____ MAX. BOT DEPTH _____ EFFECTIVE SW _____

bcnewc @ comcast.net

#1
 0.3 - Dk Br L
 Yel br scl
 3.5' - Yel red sl
 12.8 - dry

#2
 0.3 - Dk Br
 Red Br scl
 3.5 - Red Br Yel sl w/mica
 12' - dry

#3
 Dk Br L
 Red Br scl
 8.5 - Red sl w/mica
 12' - dry

#4
 0.2 - Br L
 Yel red scl
 4.5 - Yel Red sl w/mica
 12' - dry

#5
 drk br L
 Yel Red Br scl
 3' - Pale Red sl w/mica
 12' - dry

Oswald, Hank

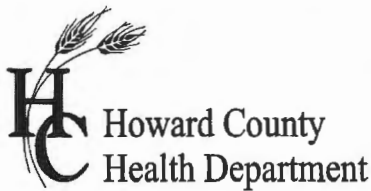
From: Oswald, Hank
Sent: Monday, February 27, 2017 9:48 AM
To: 'benewc@comcast.net'; ron@vanmar.com
Subject: Perc Test Results_Mill Green, Lot 5_Jennings Chapel Road
Attachments: Perc Test Report_Jennings Chapel Road_2.23.17.pdf; Perc Test Notes_Jennings Chapel Road_2.23.17.pdf

Attached, please find a copy of the perc test notes and report for Mill Green, Lot 5, Jennings Chapel Road. Should you have any questions, please don't hesitate to ask.

Respectfully,

Hank

Hank Oswald, L.E.H.S.
Howard County Health Department
Bureau of Environmental Health
Well & Septic Program
8930 Stanford Boulevard
Columbia, MD 21045
410.313.1786 (Office)
410.313.2648 (Fax)



APPLICATION

FOR PERCOLATION TESTING AND SITE EVALUATION

TEST DATE(S) _____ TEST TIME _____

Ⓢ AJP 560535

AGENCY REVIEW: _____

DATE 29-17

DO NOT WRITE ABOVE THIS LINE

I HEREBY APPLY FOR THE NECESSARY TESTING/EVALUATION PRIOR TO ISSUANCE OF SEWAGE DISPOSAL SYSTEM PERMIT(S) TO:

CHECK AS NEEDED:

- CONSTRUCT NEW SEPTIC SYSTEM(S)
- REPAIR/ADD TO AN EXISTING SEPTIC SYSTEM
- REPLACE AN EXISTING SEPTIC SYSTEM

CHECK AS NEEDED:

- NEW STRUCTURE(S)
- ADDITION TO AN EXISTING STRUCTURE
- REPLACE AN EXISTING STRUCTURE

CHECK ONE:

- CREATE NEW LOT(S)
- BUILD ON AN EXISTING LOT IN A SUBDIVISION
- BUILD ON AN EXISTING PARCEL OF RECORD

IS THE PROPERTY WITHIN 2500' OF ANY RESERVOIR?

- YES
- NO

THE TYPE OF STRUCTURE IS:

- RESIDENTIAL WITH TBD PROPOSED BEDROOMS IN THE COMPLETED STRUCTURE (NOTE **UNKNOWN** IF APPROPRIATE)
- COMMERCIAL (PROVIDE DETAIL OF NUMBERS AND TYPES OF EMPLOYEES/ CUSTOMERS ON ACCOMPANYING PLAN)
- INSTITUTIONAL/GOVERNMENT (PROVIDE DETAIL OF NUMBERS AND TYPES OF EMPLOYEES/USERS ON ACCOMPANYING PLAN)

PROPERTY OWNER(S) Elizabeth Van Norman

DAYTIME PHONE 301 370 1270 CELL same FAX 301 831 5603

MAILING ADDRESS 90 Bert Newcomer 13403 Autumn Crest Dr. Mt Airy MD 21771
STREET CITY/TOWN STATE ZIP

APPLICANT VanMar Assoc Inc - By Debbie VanSant

DAYTIME PHONE 410 549 2751 CELL 301 829 2990 FAX 301 831 5603

MAILING ADDRESS 310 S. Main St. Mt Airy MD 21771
STREET CITY/TOWN STATE ZIP

APPLICANT'S ROLE: DEVELOPER BUILDER BUYER RELATIVE/FRIEND REALTOR **CONSULTANT**

PROPERTY LOCATION
SUBDIVISION/PROPERTY NAME Mill Green, Lot 5, Section Two LOT NO. 5

PROPERTY ADDRESS Jennings Chapel Rd
STREET TOWN/POST OFFICE

TAX MAP PAGE(S) 13 GRID 22 PARCEL(S) 101 PROPOSED LOT SIZE 1.102

AS APPLICANT, I UNDERSTAND THE FOLLOWING: THE SYSTEM INSTALLED SUBSEQUENT TO THIS APPLICATION IS ACCEPTABLE ONLY UNTIL PUBLIC SEWERAGE IS AVAILABLE. THIS APPLICATION IS COMPLETE WHEN ALL APPLICABLE FEES AND A SUITABLE SITE PLAN HAVE BEEN RECEIVED. I ACCEPT THE RESPONSIBILITY FOR COMPLIANCE WITH ALL M.O.S.H.A. AND "MISS UTILITY" REQUIREMENTS. APPROVAL IS BASED UPON SATISFACTORY REVIEW OF A PERC CERTIFICATION PLAN.

TEST RESULTS WILL BE MAILED TO APPLICANT.

SIGNATURE OF APPLICANT

HOWARD COUNTY HEALTH DEPARTMENT, BUREAU OF ENVIRONMENTAL HEALTH, WELL AND SEPTIC PROGRAM
7178 COLUMBIA GATEWAY DRIVE COLUMBIA, MARYLAND 21046 (410) 313-2640 FAX (410) 313-2648
TDD (410) 313-2323 TOLL FREE 1-877-4MD-DHMH

LETTER OF TRANSMITTAL

AGENCY CLIENT FILE ACCT. CORR. OTHER

VanMar Associates, Inc.

Engineers ~ Surveyors ~ Planners
310 South Main Street, P.O.Box 328, Mt. Airy, MD 21771
301-829-2890 301-831-5015 301-695-0600
410-549-2751 (FAX) 301-831-5603

TO: Howard County Environmental Health
8930 Stanford Boulevard
Columbia, Maryland 21045

Attn: Hank Oswald

DATE: February 9, 2017

PROJECT: Mill Green, Lot 5, Section Two

VMA#: 175617

COUNTY#:

ENCLOSED:

COPIES	DATE	DESCRIPTION
1		Application for Percolation Testing and Site Evaluation
1	2/8/17	Check in the amount of \$506.00
3	2/6/17	Percolation Test Plan Mill Green, Lot 5, Section Two

REMARKS: Submitted for testing. Thank you.

COPIES TO (ADDRESS): Bert newcomer, 13403 Autumn Crest Drive, Mount Airy, Maryland 21771

SUBMITTED BY: dkv

G/engr/b75617 hd perc test initial submission 2.9.17

LETTER OF TRANSMITTAL

AGENCY CLIENT FILE ACCT. CORR. OTHER _____

VanMar Associates, Inc.

Engineers ~ Surveyors ~ Planners
310 South Main Street, P.O.Box 328, Mt. Airy, MD 21771
301-829-2890 301-831-5015 301-695-0600
410-549-2751 (FAX) 301-831-5603

TO: Howard County Environmental Health
8930 Stanford Boulevard
Columbia, Maryland 21045

Attn: Hank Oswald

DATE: March 29, 2017

PROJECT: Mill Green, Lot 5, Section Two

VMA#: 175617

COUNTY#:

ENCLOSED:

COPIES	DATE	DESCRIPTION
3	3/29/17	Percolation Certification Plan Mill Green, Lot 5, Section Two

REMARKS: Hi Hank, plan revised and submitted for review and approval. Thank you.

COPIES TO (ADDRESS): Bert newcomer, 13403 Autumn Crest Drive, Mount Airy, Maryland 21771

SUBMITTED BY: dkv

G/engr/b75617 hd perc cert plan submission 3.29.17

LETTER OF TRANSMITTAL

AGENCY CLIENT FILE ACCT. CORR. OTHER

VanMar Associates, Inc.

Engineers ~ Surveyors ~ Planners
310 South Main Street, P.O.Box 328, Mt. Airy, MD 21771
301-829-2890 301-831-5015 301-695-0600
410-549-2751 (FAX) 301-831-5603

TO: Howard County Environmental Health
8930 Stanford Boulevard
Columbia, Maryland 21045

Attn: Hank Oswald

DATE: March 27, 2107

PROJECT: Mill Green, Lot 5, Section Two

VMA#: 175617

COUNTY#:

ENCLOSED:

COPIES	DATE	DESCRIPTION
3	3/23/17	Percolation Certification Plan Mill Green, Lot 5, Section Two

REMARKS: Submitted for review and approval. Thank you.

COPIES TO (ADDRESS): Bert newcomer, 13403 Autumn Crest Drive, Mount Airy, Maryland 21771

SUBMITTED BY: dkv

G/engr/b75617 hd perc cert plan submission 3.27.17

**M.A.F.
& ASSOCIATES, LLC**

526 HOODS MILL ROAD
WOODBINE MD. 21797
PHONE: 410-552-5541
FAX: 410-552-5546

LETTER OF TRANSMITTAL

DATE: 1-23-19
ATTENTION: HARK OSWALD
REGARDING: 3168 JETTINGES
CHAPEL ROAD
WOODBINE MD. 21797

TO: Ho. Co. HEALTH
DEPT.

COPIES	DATE	NO.	DESCRIPTION
<u>1</u>			<u>PERC CERTIFICATION PART</u>

REMARKS:

Hark
OSWALD

SIGNED [Signature]



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Twitter: HowardCoHealthDep

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

SEWAGE DISPOSAL SYSTEM SPECIFICATIONS WORKSHEET

Address: 3168 Jennings Chapel Road

Subdivision: Mill Green Lot: 5

Initial system: Application rate: 0.8 Effective area beginning depth: 4.5 Bottom maximum depth: 8'
1st Replacement: Application rate: 0.8 Effective area beginning depth: 4.5 Bottom maximum depth: 8'
2nd Replacement: Application rate: 0.8 Effective area beginning depth: 4.5 Bottom maximum depth: 8'

Design Flow = 150 gallons per day per bedroom

Design flow + application rate = square footage of drainfield required

Linear length of trench required = drainfield square footage x sidewall reduction percentage + trench width

Sidewall reduction credit formula:

(W + 2) / (W + 1 + 2D) x 100 = Percent of length of standard trench where W=trench width and D= depth between effective area beginning depth and trench bottom.

Standard design requirements:

- All trenches must be equal length unless low pressure dosed
All trenches must be on contour
Minimum trench spacing: 10' for all trenches utilizing sidewall reduction credit. Additional spacing may be necessary for any trench using over 3.5' of effective sidewall. In those cases, the spacing formula is 2D +W up to a maximum spacing of 18'.
Minimum trench spacing for trenches with no sidewall credit (bottom area only) is 6' for a 2' wide trench and 9' for a 3' wide trench (spacing is measured edge to edge)
Maximum trench length is 100'
Maximum pipe depth is 4'

Additional requirements:

Approved: Hank Oswald Date: 1/25/19