



APPLICATION

FOR PERCOLATION TESTING AND SITE EVALUATION

TEST DATE(S) _____ TEST TIME _____

AP 536642

AGENCY REVIEW: _____

DATE 12-22-11

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 5+ 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) RYAN & HEATHER JOHNSON

DAYTIME PHONE _____ CELL 443-309-5572 FAX _____

MAILING ADDRESS 13360 TRIADELPHIA ROAD, ELLICOTT CITY, MD 21042
STREET CITY/TOWN STATE ZIP

APPLICANT STEPHANIE TUTE (SILL, ADCOCK, & ASSOC, LLC)

DAYTIME PHONE 443-325-7682 CELL 410-491-5962 FAX 443-325-7685

MAILING ADDRESS 3300 NORTH RIDGE RD, SUITE 160, ELLICOTT CITY, MD 21043
STREET CITY/TOWN STATE ZIP

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

PROPERTY LOCATION
SUBDIVISION/PROPERTY NAME TRIADELPHIA FARM LOT NO. 13C

PROPERTY ADDRESS TRIADELPHIA ROAD ELLICOTT CITY
STREET TOWN/POST OFFICE

TAX MAP PAGE(S) 22 GRID 9 PARCEL(S) 439 PROPOSED LOT SIZE EX. 1.312 AC

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.

Stephanie Tute
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

601

Tests on #3360 Triadelphia Rd
for benefit of #13358 Triadelphia Rd. North

North
Ad. ↓

609

brn loan
2fg to 2fsbk

brn grl
7msk
c. mica

brn sl
many mica
few gravel

57 grey br
1 yellow-red sl
1 micaceous
5

grey
yellow-red
grey
(10) Mm

71	micaceous
	grey-brn
	shaded

11.5' micaceous
areols

1 - no seeps -

602

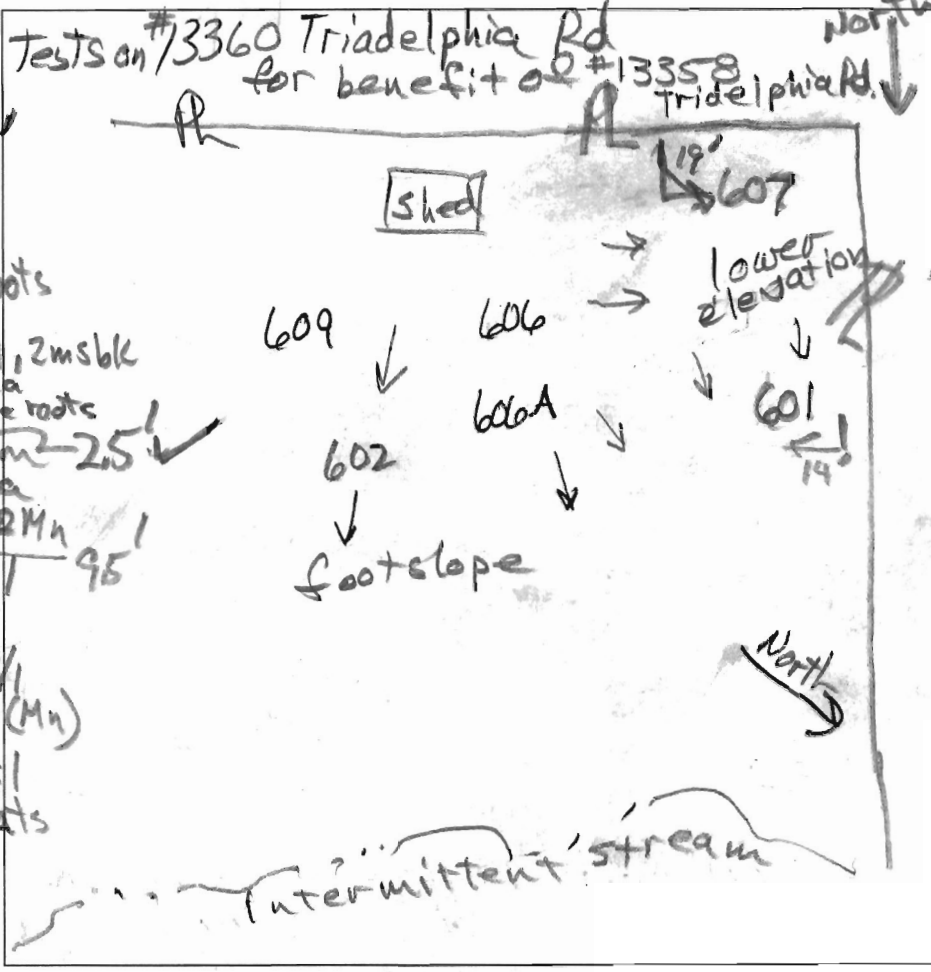
brn lava
2fg to 2fsb
any fine root

Yel-red brown
Zms blk

mica ceous
fpl discoat
-inuous

brn chsl
micaceous

born vessel
#35
Johnson



607

[illegible]

REMARKS

SANITARIAN

BACKHOE

OTHERS

~~ANALYSE~~

TEST HOLES USED IN SDA

AVG. PERC TIME

SQ. FT/BF

TRENCH WIDTH

INLET DEPTH

MAX. BOT DEPTH

EFFECTIVE S/W

TR

INLET DEPTH

MAX. BOT DEPTH

EFFECTIVE S/W



Howard County
Health Department

APPLICATION

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- ☒ NO

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PROPERTY OWNER(S) RYAN & HEATHER JOHNSON

DAYTIME PHONE _____ CELL 443-309-5572 FAX _____

MAILING ADDRESS 13360 TRIADELPHIA ROAD, ELLICOTT CITY, MD 21042
STREET CITY/TOWN STATE ZIP

APPLICANT STEPHANIE TUTE (SILL, ADCOCK, & ASSOC, LLC)

DAYTIME PHONE 443-325-7682 CELL 410-491-5962 FAX 443-325-7685
x29

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STREET CITY/TOWN STATE ZIP

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

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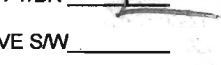
Stephanie Tute
SIGNATURE OF APPLICANT

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

606

603

brn chl
micaceous
few flags



REMARKS _____

SANITARIAN RB / JW BACKHOE Zach Brindle OTHERS _____

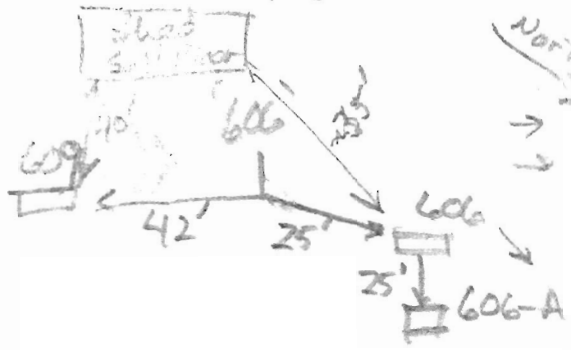
TEST HOLES USED IN SDA _____ AVG. PERC TIME _____ SQ. FT/BR _____

TRENCH WIDTH _____ INLET DEPTH _____ MAX. BOT DEPTH _____ EFFECTIVE SWW _____

603

dk brn loam
to brn loam 2/3 sbk
brn slt
2 msbk
brn gl dense
1 msbk
brn slt
dense, 1 msbk
C14 10YR 6/3
many fine mica
brn slt grey
10YR 5/4
R2 7.5 YR 5/8
R2 7.5 YR 6/2
dense slt
many fine mica
brn vgr slt
Fe coatings
on gravel
moist
water seeps
brn slt
micaceous
brn chd
micaceous
few flags

Concave



foot slope

intermittent stream

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
4/26/12	603	3'	12:04	12:23	1:03	40	F
4/26/12	602	4.5'	12:49	12:51	12:54	3	P
4/26/12	606	1.3'	Visual	strong platy structure, coarse			F
4/26/12	606-A	1.5'	Visual	strong platy texture, coarse			F

606

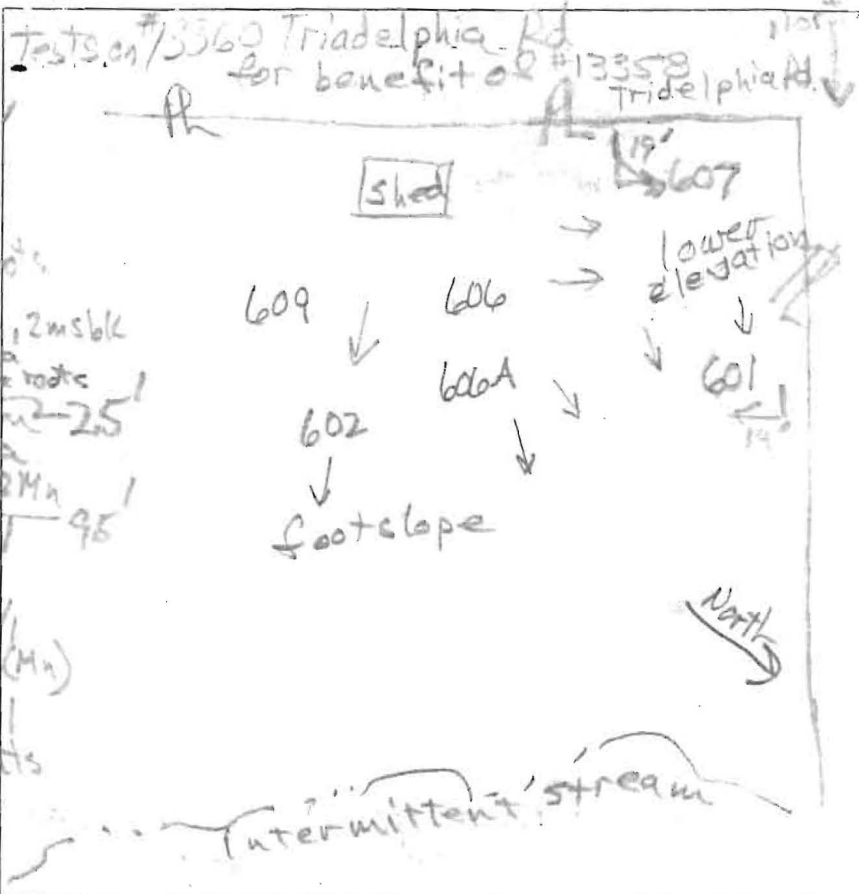
brn gl
10YR 5/8
1s, 3vcpl
1/4" to 1/2"
Mu coat vgs
common on
red faces
and gravel
2.5 Y 7/3
sand on
red faces
10YR 6/8
2.5 Y 7/3
C3p 10YR 2/2
(Mu)
10YR 5/8
1s, 3vcpl
heavy Mu coats
2.5 Y 7/3
sand on
red faces
brn vgr slt
606-A
stone
& slaggy to 25'
brn slt
brn slt 1/2 sbk
yel-brn
slt 1s, 2sg
10YR 5/8 1s
2.5 Y 7/3 ped
heavy Mu coats
2.5 Y 7/3
C3p 10YR 2/2
(Mu)

REMARKS _____

SANITARIAN RB/JW BACKHOE Zach Brindle OTHERS _____

TEST HOLES USED IN SDA _____ AVG. PERC TIME _____ SQ. FT/BR _____

TRENCH WIDTH _____ INLET DEPTH _____ MAX. BOT DEPTH _____ EFFECTIVE S/W _____



607

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
4/26/12	601	3.5'	10:23	10:25	10:29:30	4	P
4/26/12	602	4.5'	12:49	12:51	12:54	3	P
4/26/12	607	6' 11"	1:20	1:22	1:27	5	P
4/26/12	609	5.3'	1:55	1:58	2:04	6	P

REMARKS

SANITARIAN

RB/JW

BACKHOE

Zach Bridle

OTHERS

Ryan Johnson

TEST HOLES USED IN SDA

AVG. PERC TIME

SQ. FT/BR

TRENCH WIDTH

INLET DEPTH

MAX. BOT DEPTH

EFFECTIVE SW

609

brn loam
2' to 2.5'

brn grl
1' msk
c. mica

3' brn sl
many mica
few gravel

3.4' grey brn
yel-red sl
micaceous

5' grey brn
yel-red
gral

(1p) Mn
Fe Mn coats
micaceous

7' grey-brn
yel-red
chsl
micaceous

11.5' grey ls
saturated
-no seep-

12'

602

brn loam
2' to 2.5' blk
many fine roots

1' yel-red loam
2msbk

2' brn sl
micaceous

1' pl discort
involvs
clipping

5' brn chsl
micaceous

9.5' brn vel sl
35%

601

brn loam
2' to 2.5'

brn sl
2' fsl
1' msk
fine roots

1' yel-red grl
common mica
common fine roots

brn sl
many mica
3d 7.5 YR 2/2 Mn

9.5' 7.5 YR 5/8 sl
m 142d 7.5 YR
6/185

11.8' m 29 7.5 YR 2/2 (Mn)

grey-brn grsl
many Mn coats
water still

607

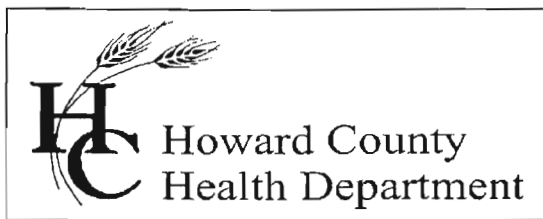
dk brn loam
to brn loam
12' to 2' fsl
yel-red grl
2msbk

3' brn sl
micaceous
few channels

5.5' grey-brn
yel-red sl
micaceous
few channels
few medium roots

7' yel-red
pale yellow
fsl, Mn

11' 0.75 f (Mn)



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

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

August 15, 2012

Ryan and Heather Johnson
13360 Triadelphia Road
Ellicott City, MD 21042

RE: Variance request
13358 Triadelphia Road
Ellicott City, Maryland


Dear Mr. and Mrs. Johnson,


The Health Department has received your variance request for the above referenced property. Maryland Department of the Environment has accepted our recommendation to approve the variance request allowing the well to be located downgradient from several private sewage disposal supplies. Due to the landscape position of the sewage areas and wells, the request was approved subject to the following conditions:

1. The well casing must be made of steel.
2. The well casing is to be set at a minimum of 50 feet depth or at least 10 feet into competent bedrock, whichever is deeper.

If you have any questions regarding this matter, please contact me at the above address or by calling (410) 313-1771.

Respectfully,


Robert Bricker, REHS/R.S.
Well and Septic Program


Steven R. Krieger, RS/REHS
Maryland Department of the Environment

To: Robert Bricker
Howard County Health Dept

Re: 13358 and 13360 Triadelphia Rd Ellicott City, MD 21042

Mr. Bricker,

I am providing this letter per your e-mail request to Stephanie Tuite (Sill, Adcock and Assoc) dated 8/10/12. The request was as follows:

"The perc cert for the subject property has been reviewed, but signature is being held. The Bureau needs to have a formal request from the owner to allow a well to be established 200 feet or greater downgradient of the several septic systems associated with neighboring properties.
Robert"

Please consider this our (Ryan and Heather Johnson-property owners 13358/13360 Triadelphia Rd) formal request for allowance of a well to be established 200' or greater downgradient of the several septic systems associated with neighboring properties.

Thank you in advance for consideration of our request and subsequent signature completion on the perc cert.

Respectfully Submitted,

Handwritten signatures of Ryan and Heather Johnson. The signature on the left is for Ryan Johnson, and the signature on the right is for Heather L. Johnson.

Ryan and Heather Johnson
Property Owners

Cc: Stephanie Tuite
File

Davis, Michael J

From: Steven Krieg [skrieg@mde.state.md.us]
Sent: Friday, March 02, 2012 7:16 AM
To: Bricker, Robert
Cc: Williams, Jeffrey; Davis, Michael J
Subject: Re: engineers proposal

Thanks Robert for doing this.

According to my calculations based on this information there is enough upslope dillution acreage to justify the proposed downgradient wells will likely not be affected with nitrogen issues. I would love to say MDE will back you on the downgradient issue alone to justify not to test, but from my experience on this issue at MDE, we may be on shaky ground here considering the N balance works on paper.

I would run this by Jeff and Mike again to see what they currently think, but assuming we allow the testing to proceed and the tests are satisfactory and all of your other requirements are met with respect to Perc Certs, I still find it hard from an installation standpoint that this can be done with concerns over setting tanks deeper than 3 feet and not setting them where surface water will flow into them. Without seeing information normally included on a building permit plot plan, detailed elevation data, depths of cover over new and the existing tanks and pump chambers, existing system location and lengths of existing and new proposed trenches, it is hard for me to buy it. I would want a lot more detailed information to convince me the lot is ok to test otherwise you may be creating a situation that looks barely acceptable on paper, but very difficult to install in the real world.

Of course I may be missing something that gives us another reason to deny testing.

>>> "Bricker, Robert" 03/01/12 4:37 PM >>>

Attached is engineer?s proposal for well locations.

ROBERT BRICKER, CPSS, REHS/RS
ENVIRONMENTAL SANITARIAN SUPERVISOR
DEVELOPMENT COORDINATION SECTION, WELL AND SEPTIC PROGRAM
HOWARD COUNTY BUREAU OF ENVIRONMENTAL HEALTH
7178 COLUMBIA GATEWAY DRIVE
COLUMBIA, MD 21046

410-313-2691; fax, 410-313-2648
rbricker@howardcountymd.gov

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FILE INQUIRY NOTES

[illegible]



Howard County
Health Department

Bureau of Environmental Health
7178 Gateway Drive 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. Beilenson, M.D., M.P.H., Health Officer

March 14th 2012

TO: Stephanie Tuite, Applicant
Sill, Adcock & Associates, LLC
Ellicott City, MD 21043

FROM: Robert C. Bricker, CPSS, REHS/R.S.
Bureau of Environmental Health
Well and Septic Program

RE: **Follow-up concerning redesign of proposal for Triadelphia Farms subdivision, Section 2, Lot 13-C (Tax Map 22, Parcel 439), making Lot 13-B a servant property for a well location and septic reserve area**

As presented the proposal cannot be approved.

- 1) The Health Department has determined that well locations near the north property line of Lot 13-C are downgradient and within 200 feet of either the septic reserve area on Lot 13-B or the septic reserve on Lot 14-C (13215 Hunt Ridge Road). This condition is not permissible [Howard County Code 3.808(D)].
- 2) Portions of the proposed septic reserve area to serve Lot 13-C are within the 100-foot setback to the intermittent stream on Lot 13-C.
- 3) In addition to being within 100 feet of the intermittent stream, the proposed sand mound location cannot be approved as it is on slopes greater than 12 percent.
- 4) The septic tank serving the residence on Lot 13-C would have to be relocated to accommodate the proposed Alternate Well location.
- 5) There is a shed within the septic reserve area for Lot 13-B that must be labeled "TO BE REMOVED". If the shed has a poured foundation, making the area useless as a septic reserve, then a 10-foot setback must be observed.

In addition, prior to proceeding with further development of this plan, the following questions need to be answered:

1. When were Lot 13-B and Lot 13-C created?
2. How were these lots created?
3. What development plans were utilized and approved to create these lots?
4. What is the area of septic reserve on Lot 13-B?
5. Any subsequent perc test plan should have a note indicating that the Howard County Planning and Zoning will approve a residence within 30 feet of the 'front' property line on Lot 13-C.

Be advised that the Howard County Health Department and MDE have reviewed the proposed locations for wells in the center of Lot 13-C. Neither organization opposes the three locations at relatively higher elevations as represented in the context of the submittal.

You may contact me at the Bureau of Environmental Health, 410-313-2691 if you have questions about these contents.

Copy: Ryan and Heather Johnson, property owners
file



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

May 3, 2012

TO: Stephanie Tuite, Applicant
Sill, Adcock & Associates, LLC
stephanie@saaland.com

FROM: Robert C. Bricker, CPSS, REHS/R.S.
Bureau of Environmental Health
Well and Septic Program

RE: **Percolation Testing Report, Triadelphia Farms subdivision, Section 2, Lot 13-B (Tax Map 22, Parcel 438), to serve Lot 13-C (Parcel 439)**

Percolation testing was conducted on the referenced property on April 26, 2012. The purpose for conducting these percolation tests was to delineate septic reserve area in support of new construction on Lot 13-C (13358 Triadelphia Road).

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. Soil conditions either satisfactory or unsatisfactory for onsite wastewater disposal were observed at each of seven test locations on Lot 13-B (13360 Triadelphia Road). Areas that may be included in a septic reserve are represented by test locations having satisfactory soil conditions.


The area of the septic reserve serving 13660 Triadelphia Road was not tested and the area of this septic reserve must remain at 10,000 square feet or greater. The Maryland Department of Environment has interpreted that the septic reserve area to serve Lot 13-C may be large enough for only two systems. Howard County Code requires that if there is area for only two distribution systems, a pre-treatment unit must be utilized.

Septic reserve area to serve Lot 13-C may be defined by Passing test locations '601' and '607', and by '602' and '609', along with Failing locations '606', '606-A' and '603'. The areas appropriate for wastewater disposal are relatively compact and separated by an area of unsuitable soil conditions.

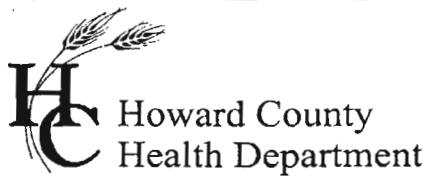
Field data collected are shown on two Percolation Test Worksheets enclosed with this letter. Recommended Inlet and Trench Bottom depths, and Usable Sidewall all are based on observed soil properties and characteristics at respective test locations as well as the particular soils materials tested. The values for the drainfield parameters will be documented during the Percolation Certification Plan process, and then maintained in the Health Department file for the subject property.

Prior to Building Permit submittal, the easement containing the septic reserve for Lot 13-C and access corridor to reserve area(s) must be recorded. Also before building permit submittal, a well must be installed on Lot 13-C, and the Well Completion Report approved by the Health Department. The Well Permit can be released after approval of the Percolation Certification Plan. If you have any questions regarding this evaluation or requirements for the Percolation Certification Plan that will be developed, please contact me at the above address or by calling (410) 313-2691.

Respectfully,


Robert C. Bricker, CPSS, REHS/RS
Environmental Sanitarian
Well and Septic Program

Enclosures (1)
Copy: Ryan and Heather Johnson, property owners
file




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

January 30, 2012


TO: Stephanie Tuite, Applicant
Sill, Adcock & Associates, LLC
Ellicott City, MD 21043

FROM: Robert C. Bricker, CPSS, REHS/R.S. 
Bureau of Environmental Health
Well and Septic Program

RE: **Proposal to establish a septic reserve area and water well locations on Triadelphia Farms subdivision, Section 2, Lot 13-C (Tax Map 22, Parcel 439)**

The proposed percolation tests cannot be scheduled at this time. Please be advised of the following:

- 1) A review of records indicates that the subject property was created after March 1972 and therefore a septic reserve is required that has minimum area of 10,000 sq.ft. (Howard County Code 3.805(A)(2)(XX)A.). The area of the septic reserve must adhere to all regulated setback distances described by COMAR 26.04.02.04 and Howard County Code 3.805.
- 2) As a new well is proposed on Lot 13-B and the existing well is to be 'captured' by an easement, the Percolation Certification Plan needs to include Lot 13-B. All requirements of Howard County Code 3.805(A)(2) must be demonstrated in the content of the subsequent Percolation Certification Plan. Approvable locations for wells and septic reserve areas for both lots must be presented on the Percolation Test Plan in order to proceed with testing.
- 3) The Health Department has reviewed the proposed development of the subject property. We have determined that the (2) alternate wells proposed proximate to the north corner of Lot 13-C are downgradient and within 200 feet of both the proposed septic reserve area on Lot 13-C and the existing septic reserve area on Lot 13-B. This condition is not permissible [Howard County Code 3.808(D)].

You may contact me at the Bureau of Environmental Health, 410-313-2691 if you have questions about these contents. 

Copy: Ryan and Heather Johnson, property owners
file