

# APPLICATION

## FOR PERCOLATION TESTING AND SITE EVALUATION

TEST DATE(S) \_\_\_\_\_ TEST TIME \_\_\_\_\_ A/P \_\_\_\_\_

AGENCY REVIEW: \_\_\_\_\_ DATE \_\_\_\_\_

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 UNKNOWN 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) Michael A. Butler & Barbara S. Klien

DAYTIME PHONE 240-876-4295 CELL S/a "Daytime Phone" FAX N/A

MAILING ADDRESS 5650 Ten oaks Road Clarksville MD 21029  
STREET CITY/TOWN STATE ZIP

APPLICANT BPR Inc. C/o Brian Johnson (bjohnson@bprsurveying.com)

DAYTIME PHONE 410-857-9030 CELL 410-876-0333 FAX 410-876-1532

MAILING ADDRESS 150 Airport Drive, Suite 4 Westminster Maryland 21157  
STREET CITY/TOWN STATE ZIP

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

PROPERTY LOCATION

SUBDIVISION/PROPERTY NAME P/o Parcel 10, Tax Map 34 LOT NO. N/A

PROPERTY ADDRESS P/o 5650 Ten Oaks Road Clarksville, 2109  
STREET TOWN/POST OFFICE

TAX MAP PAGE(S) 34 GRID 04 PARCEL(S) P/o 10 PROPOSED LOT SIZE 1.160 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.

01/29/2016

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

A/P \_\_\_\_\_

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H

REMARKS \_\_\_\_\_

SANITARIAN \_\_\_\_\_ BACKHOE \_\_\_\_\_ OTHERS \_\_\_\_\_

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

TRENCH WIDTH \_\_\_\_\_ INLET DEPTH \_\_\_\_\_ MAX. BOT DEPTH \_\_\_\_\_ EFFECTIVE S/W \_\_\_\_\_

A/P

hole #1

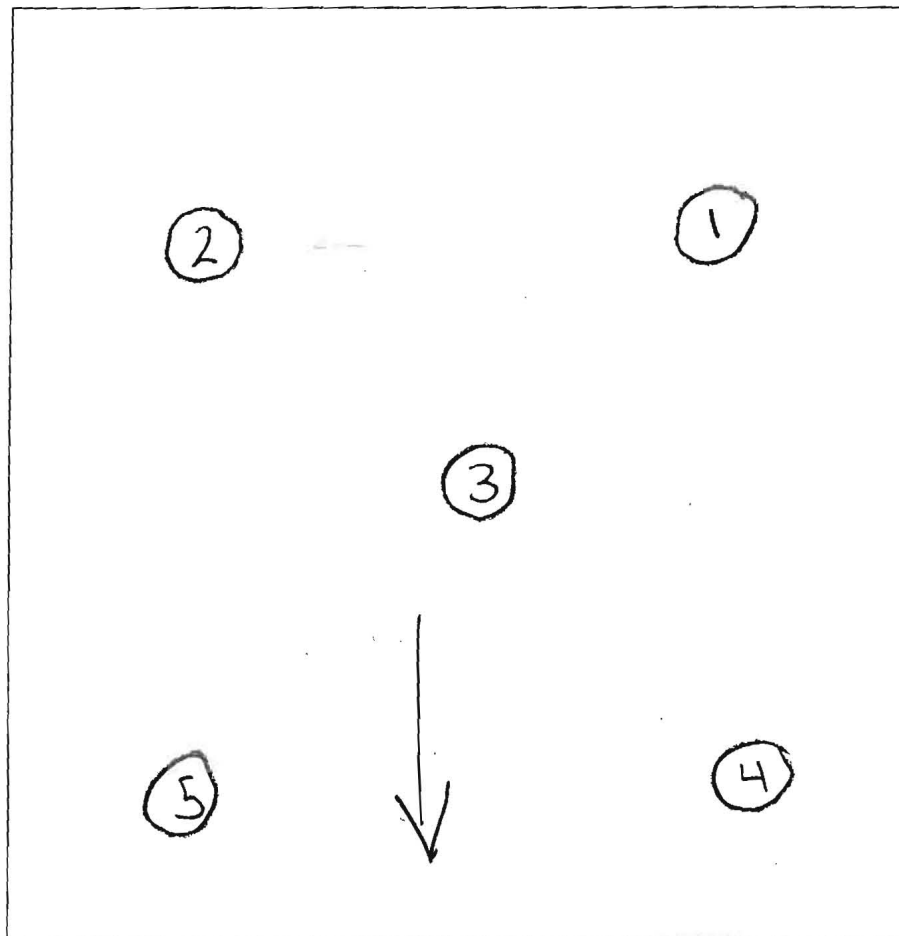
0.1' - br l  
Or Red  
cl  
w/ mica  
3' - pale red  
fsl  
platy  
many  
mica  
13' -

hole #2

0.2' - br l  
red or  
yel cl  
w/ mica  
3.5' - pale  
red pl  
fsl  
many  
mica  
13' -

hole #3

0.1' - br l  
red or  
cl w/  
mica  
3' - pale  
red pl  
fsl  
many  
mica  
13.6' -



hole #4

0.1' - br l  
Or cl  
w/ mica  
4' - pale  
red  
fsl  
platy  
many  
mica  
13.5' -

hole #5

0.1' - br l  
Or cl  
mica  
3' - yel sl  
w/ mica  
5' - pale  
red  
fsl  
many  
mica  
13.2' -

5650 Ten Oaks Road

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
2/25/16	1	5.5/13	9:14	9:17	9:22	5	P
2/25/16	2	5.5/13	9:17	9:20	9:24	4	P
2/25/16	3	5.5/13.6	9:39	9:42	9:46	4	P
2/25/16	4	5.8/13.5	9:31	9:35	9:39	4	P
2/25/16	5	5.5/13.2	9:22	9:30	9:40	10	P

REMARKS

SANITARIAN H. Oswald BACKHOE Fogles OTHERS Owner's friend

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

TRENCH WIDTH \_\_\_\_\_ INLET DEPTH \_\_\_\_\_ MAX. BOT DEPTH \_\_\_\_\_ EFFECTIVE S/W \_\_\_\_\_

## Williams, Jeffrey

---

**From:** Mike Butler <tenoaks@verizon.net>  
**Sent:** Tuesday, June 21, 2016 11:33 AM  
**To:** Williams, Jeffrey  
**Subject:** 5650 Ten Oaks Rd

Jeff-

Thank you for taking the time to meet with me yesterday to discuss the perc cert plan for Ten Oaks Rd. You were very helpful.

Based on our discussion I have instructed the engineer to make the following changes to the plan for your approval.

1. Designate new septic area maximizing available width of lot and using 5' setbacks from N & S property lines if need be.
2. Show 4 (four) 95' trenches all within the "proved area". These 4 trenches will accommodate an initial and two (2) replacement systems, however Indications of "initial", "first replacement" "second replacement" not necessary on plan.
3. Initial installation will be shown to connect to one (1) trench with appropriate setbacks from house, etc. The remaining 3 are for future use.
4. The 95' trenches will accommodate up to 5 bedrooms per your calculations using field perc results
5. Delete note 11 from plan.
6. Show 15' easement along driveway (to be used for setback that side).

I expect to have these changes made in the next day or so and will send them directly to you for your review and hopeful approval as we discussed.

Again thank you for meeting with me to address these issues.

Mike Butler



## Oswald, Hank

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**From:** Oswald, Hank  
**Sent:** Friday, June 17, 2016 9:38 AM  
**To:** 'Randy Bachtel'  
**Cc:** Mike Butler  
**Subject:** RE: 5650 Ten Oaks Road\_Perc Cert Plan

Hi Randy:

Looks good except my supervisor, Jeff Williams and Deputy Director, Mike Davis would like to see 1 initial and 2 replacement systems since we have the area. We would allow a 5 foot setback to the property line to assist you in fitting them in.

Let me know if you have any questions.

Hank

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**From:** Randy Bachtel [<mailto:rbachtel@bprsurveying.com>]  
**Sent:** Thursday, June 16, 2016 1:56 PM  
**To:** Oswald, Hank  
**Cc:** Mike Butler  
**Subject:** RE: 5650 Ten Oaks Road\_Perc Cert Plan

Hank

Find attached the plan for the Ten oaks Project. Please take a look and let me know if see anything else that needs addressed.

Thanks  
Randy Bachtel



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**From:** Oswald, Hank [<mailto:hoswald@howardcountymd.gov>]  
**Sent:** Friday, June 10, 2016 1:33 PM  
**To:** Randy Bachtel  
**Subject:** 5650 Ten Oaks Road\_Perc Cert Plan

Hi Randy:

At a glance, the following needs to be revised on the plan submitted today;

- 1.) Show septic easement boundary
- 2.) Septic easement to house setback is 20 ft

- 3.) Septic tank to house with basement setback is 20 ft.
- 4.) Replace perc test notes with attachment
- 5.) Label trenches Initial trench 1, Initial trench 2 etc.
- 6.) 100 ft Well Radius must go around entire well box.

Any questions, please don't hesitate to ask.

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)

## Oswald, Hank

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**From:** Oswald, Hank  
**Sent:** Monday, April 11, 2016 11:02 AM  
**To:** bjohnson@bprsurveying.com  
**Subject:** 5650 Ten Oaks Road\_Variance Form  
**Attachments:** Variance application-interactive.pdf

Hi Brian:

Please have the owner complete the application for variance to down gradient well. Once the variance is approved, the percolation certification plan will need a note added to it about the approved variance plus conditions.

Should you have any questions, please don't hesitate to ask.

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)



## 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](http://www.hchealth.org)

Facebook: [www.facebook.com/hocohealth](https://www.facebook.com/hocohealth)

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

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

### APPLICATION FOR VARIANCE TO COMAR ONSITE WATER/SEWER FOR MDE APPROVAL

Date Submitted \_\_\_\_\_

Property Address \_\_\_\_\_

Subdivision \_\_\_\_\_

Lot \_\_\_\_\_

Tax Map \_\_\_\_\_

Grid \_\_\_\_\_

Parcel \_\_\_\_\_

Tax Account # \_\_\_\_\_

Provide a brief site history including previously submitted and active plans with the Health Department or the County (subdivision plans, perc test applications, Building Permit applications):

In the area below, list the specific section of the Code of Maryland Regulations (COMAR) to which a variance is being requested and provide a brief summary of the regulation and an explanation of why the variance is being requested (Attach a separate sheet if necessary).

Regulation Section

Summary and Explanation

1. \_\_\_\_\_

2. \_\_\_\_\_

Property Owner's Signature \_\_\_\_\_

### Health Department Use Only

Reviewed by

\_\_\_\_\_  
HCHD Staff

\_\_\_\_\_  
Date

Recommendation:

[ ]

Recommended

[ ]

Not Recommended

\_\_\_\_\_  
HCHD Supervisor

\_\_\_\_\_  
Date

Comments/Conditions: \_\_\_\_\_

Approved by:

\_\_\_\_\_  
MDE Representative

\_\_\_\_\_  
Date

## Oswald, Hank

---

**From:** Williams, Jeffrey  
**Sent:** Friday, April 15, 2016 2:42 PM  
**To:** Steven Krieg -MDE- (steven.krieg@maryland.gov)  
**Cc:** Oswald, Hank  
**Subject:** Well variance  
**Attachments:** 20160415142505318.pdf

Hi Steve. Attached is a variance request form and the proposed perc cert. The soils were good. Deep LS to 13' 5-7 minute rates. The lowest part of the area is about 250' away with the upper part over 300' away. I didn't put LPD as a condition due to the distance. If you want to add it in, you could add it to the conditions on the bottom of the form. If you like it, please sign and email back to me and Hank. Thanks

Jeff Williams  
Program Supervisor, Well & Septic Program  
Bureau of Environmental Health  
Howard County Health Dept.  
410-313-4261  
[jewilliams@howardcountymd.gov](mailto:jewilliams@howardcountymd.gov)

### CONFIDENTIALITY NOTICE

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## Oswald, Hank

---

**From:** Oswald, Hank  
**Sent:** Wednesday, February 10, 2016 12:20 PM  
**To:** 'bjohnson@bprsurveying.com'  
**Subject:** Perc Test Date\_5650 Ten Oaks Road

Brian Johnson:

I'm writing to schedule the percolation test date for the above referenced property. Please choose from one of the following dates and confirm; February 17, 24 and 25<sup>th</sup> (starting at approximately 8:30 a.m.) Please note, the owner is responsible for hiring a septic contractor to dig the percolation test holes with a backhoe. The backhoe should be capable of digging a hole down to at least 12 feet. The holes must be staked by a licensed surveyor prior to the test date.

Should you have any questions, or wish to choose another day, please contact me.

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)



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Facebook: [www.facebook.com/hocohealth](https://www.facebook.com/hocohealth)

Twitter: HowardCoHealthDep

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

---

February 29, 2016

To: Michael Butler & Barbara Klein (Owner); BPR Inc-Brian Johnson (Applicant)

Percolation Test Report; 5650 Ten Oaks Road, Clarksville, MD 21029

Percolation tests were conducted at 5650 Ten Oaks Road (Tax Map 34, Parcel 10) on February 25, 2016. Tests and profile descriptions were documented for 5 locations (1, 2, 3, 4, & 5). 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 and large enough to accommodate 3 systems 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.

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](mailto:hoswald@howardcountymd.gov)

Respectfully,

*Hank Oswald*

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

Attachment: Percolation Field Notes

## Oswald, Hank

---

**From:** Oswald, Hank  
**Sent:** Monday, February 29, 2016 7:18 AM  
**To:** bjohnson@bprsurveying.com  
**Subject:** 5650 Ten Oaks Road\_Perc Test Results  
**Attachments:** Perc Test Report\_5650 Ten Oaks Road\_2.25.16.pdf; Perc Test Field Notes\_2.25.16.pdf

Brian:

Attached, please find the percolation test results for 5650 Ten Oaks Road.

Should you have any questions, please don't hesitate to ask.

Respectfully,

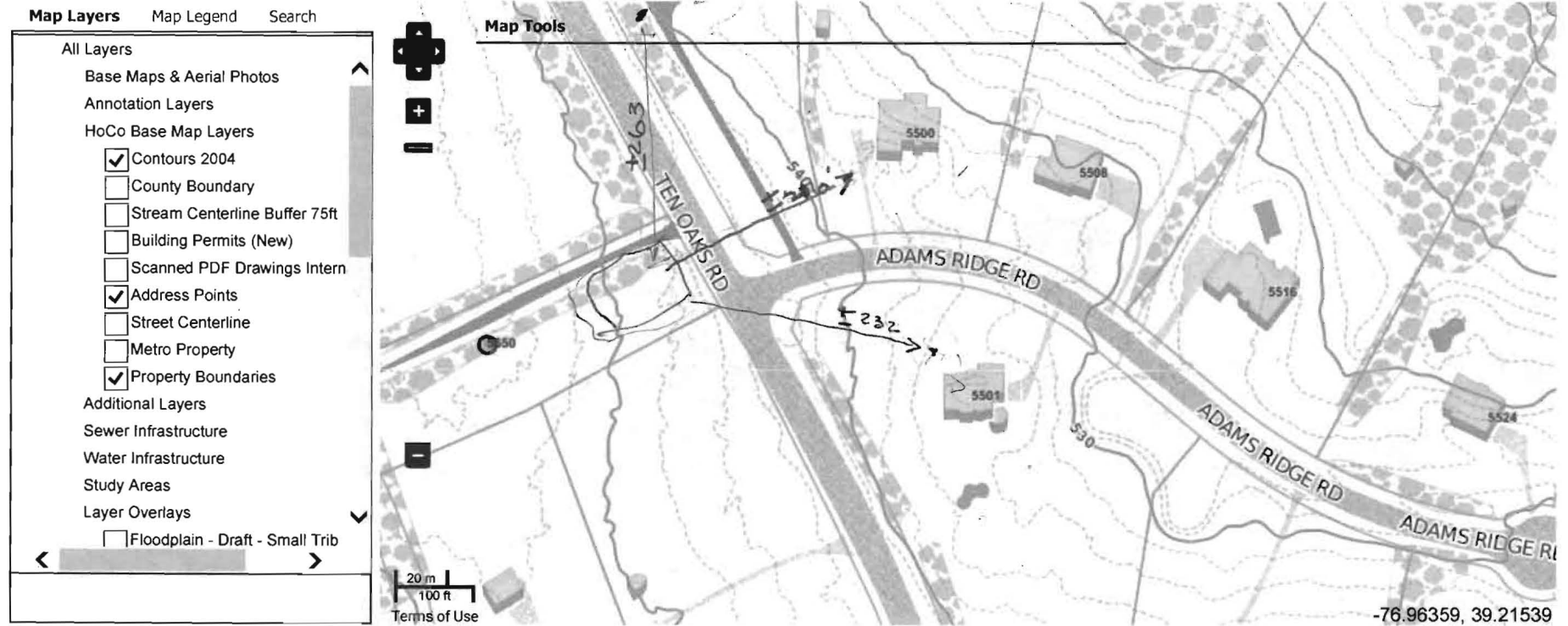
Hank

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)





## Interactive Map





# HOWARD COUNTY HEALTH DEPARTMENT

57989

DATE 2/3/16

AS

Received  
From

Michael Butler

PHONE #

410 531 5037

For

~~Rec~~ Rec Opp/ 5650 Ten Oaks Rd.

☐ CASH

☒ CHECK

NO.

5110

Five hundred Sixty

Dollars

\$

506.00

Received By

King



**PLANNING • SUBDIVISION AND SITE DESIGN • SURVEYING**

150 AIRPORT DRIVE, SUITE #4 • WESTMINSTER, MD 21157 • (410) 876-0333 • (410) 857-9030 Fax (410) 876-1532

TO: Howard County Health Department

DATE: January 29, 2016

SUBJECT: 5650 Ten Oaks Road

County File No. \_\_\_\_\_

ATTENTION: Percolation Review Agent

JOB NUMBER: 15-086-000

**WE ARE SENDING YOU THE FOLLOWING ITEMS:**

☒ ATTACHED

☐ ENCLOSED

☐ UNDER SEPARATE COVER

☒ PRINTS

☐ SECOND ORIGINALS

☐ ORIGINALS

☐ COPIES

NO.	DESCRIPTION
3	Copies of Site/ Percolation Certification plan
1	Signed Application
1	Check # 5110 (for review fees)

☐ FOR APPROVAL

☒ FOR REVIEW

☐ FOR YOUR INFORMATION

☐ FOR YOUR USE

☐ FOR PROCESSING

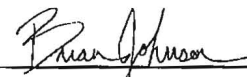
☐ RETURN TO THIS OFFICE

☐ AS REQUESTED

☐ FOR SIGNATURE

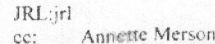
☐ OTHER

REMARKS: \_\_\_\_\_

  
Brian Johnson

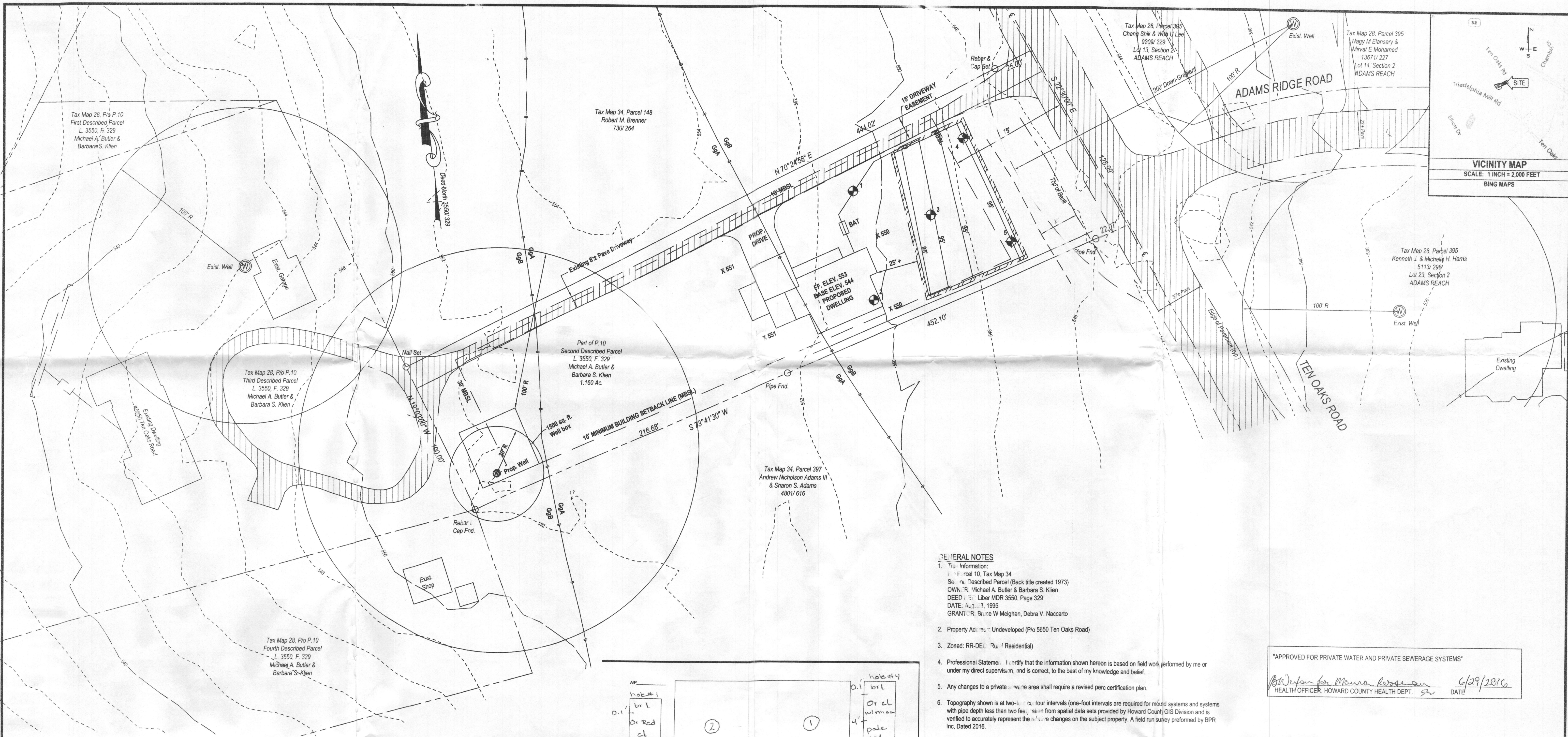








Z:\115-986-000 - 5650 Ten Oaks Road\Drawings\PERCOLATION CERTIFICATION AND SITE PLAN.dwg LAYOUT: PERCOLATION CERTIFICATION AND SITE PLAN LAST SAVE: 6/22/2016 8:14:27 AM DL: gpe



**HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING**  
3430 Courthouse Drive ■ Ellicott City, Maryland 21043 ■ 410-313-2350  
Marsha S. McLaughlin, Director  
www.howardcountymd.net  
TAX 410-313-3467  
TDD 410-313-2323

Michael Butler  
5650 Ten Oaks Road  
Clarksville, Maryland 21029

RE: 5650 Ten Oaks Road  
Portion of Tax Map 34, Grid 4, Parcel 10  
1.159 acre portion (the "Second Portion")

Dear Mr. Butler:

I am writing in response to your request regarding the Second Portion referenced above. You ask whether the Second Portion is a legally created "buildable lot." You submitted several deeds and a plot plan as documentation for the creation of the Second Portion.

This Division has evaluated the materials you submitted with your letter, and we have concluded that the Second Portion was created in 1973 with the recording of a deed in Liber 662, Folio 340. According to the Subdivision and Land Development Regulations which would have been in effect in 1973, the creation of one new residential lot by deed would have been permitted, and the Second Portion was owned & deeded at that time, so it complied with the minimum lot size of 40,000 square feet in the R-40 District. Based on this conclusion, we consider the Property to be a valid lot for which this Division will grant authorization on a building permit for a single-family detached dwelling, but only if the dwelling fully complies with the current setback requirements for the RR (Rural Residential) District.

The Property may still be subject to access or plan approval requirements before a building permit may be issued. A building permit application for a single-family detached dwelling on the Property will not be given zoning authorization unless a copy of this letter is submitted with the application. If you have additional questions, please contact me at 410-313-4344 or at mbush@howardcountymd.gov.

Sincerely,

*Robert L. Johnson*  
Robert L. Johnson, Planning Supervisor  
Division of Public Service  
and Zoning Administration

JRL:jrl  
cc: Annette Mirman

**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.bchealth.org  
Facebook: www.facebook.com/hcohealth  
Twitter: @HowardCoHealthDep

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

February 29, 2016

To: Michael Butler & Barbara Klein (Owner); BPR Inc-Brian Johnson (Applicant)

Percolation Test Report: 5650 Ten Oaks Road, Clarksville, MD 21029

Percolation tests were conducted at 5650 Ten Oaks Road (Tax Map 34, Parcel 10) on February 25, 2016. Tests and profile descriptions were documented for 5 locations (1, 2, 3, 4, & 5). All test holes passed.

All percolation tests conducted were standard tests, measuring rate of fall for a pre-wet period followed by measurement and recording 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 and large enough to accommodate systems 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.

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

Respectfully,

*Frank Oswald*

Frank Oswald, Ed.H.S.  
Bureau of Environmental Health  
Well & Septic Program

Attachment: Percolation Field Notes

DATE	TEST #	DEPTH	START	STOP	TIME	PERM
2/25/16	1	5.5/13	9:14	9:17	9:22	D
2/25/16	2	5.5/13	9:17	9:20	9:24	H
2/25/16	3	5.5/13	9:39	9:42	9:46	H
2/25/16	4	5.8/13	9:31	9:35	9:39	H
2/25/16	5	5.5/13	9:22	9:30	9:40	P

REMARKS: SANTARIAN, H. Oswald, BACKHOE, FOGLES, OTHERS, OWNERS, FRIENDS

TEST HOLES USED IN SDA: \_\_\_\_\_ AVG. PERC TIME: \_\_\_\_\_ SQ. FT. PER: \_\_\_\_\_

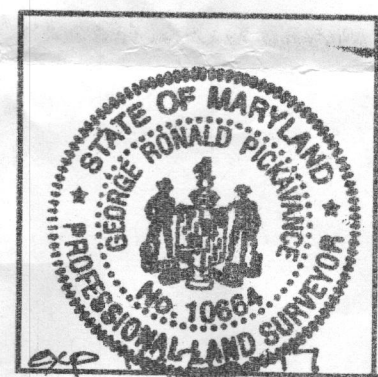
TRENCH WIDTH: \_\_\_\_\_ INLET DEPTH: \_\_\_\_\_ MAX. BOT DEPTH: \_\_\_\_\_ EFFECTIVE SW: \_\_\_\_\_

#### GENERAL NOTES

1. Title Information:  
a. Parcel 10, Tax Map 34  
b. Second Described Parcel (Back title created 1973)  
OWN: R. Michael A. Butler & Barbara S. Klein  
DEED: S. Liber MDR 3550, Page 329  
DATE: AUG. 3, 1995  
GRANTOR: Bruce W. Weighan, Debra V. Naccaro
2. Property Address: Undeveloped (Plo 5650 Ten Oaks Road)
3. Zoned: RR-DEC (Rural Residential)
4. Professional Statement: I certify that the information shown hereon is based on field work performed by me or under my direct supervision, and is correct, to the best of my knowledge and belief.
5. Any changes to a private sewage area shall require a revised percolation plan.
6. Topography shown is at two-foot contour intervals (one-foot intervals are required for mound systems and systems with pipe depth less than two feet) taken from spatial data sets provided by Howard County GIS Division and is verified to accurately represent the nature changes on the subject property. A field run survey performed by BPR Inc. Dated 2016.
7. Existing wells, septic systems, and sewer disposal areas within 100' of the property and those wells within 200' down gradient of existing or proposed septic systems or sewer disposal areas have been shown.
8. This area designates a private sewage area for two systems as required by the Maryland Department of the Environment for individual sewage disposal. Improvements of any nature in this area are restricted until public sewerage is available. This area shall become null and void upon connection to a public sewerage system. The county Health Officer shall have the authority to grant adjustments to the private sewage area. Recordation of a modified sewage area shall not be necessary.
9. The lot shown herein complies with the minimum ownership, width, and lot area as required by the Maryland Department of the Environment.
10. A well shall be drilled and approved by the Health Department prior to health approval of a building permit. The Health Department does not consider the lot a buildable lot until a well has been drilled and approved.
11. An advanced pre-treatment system, which utilizes best available technology to perform nitrogen reduction, must be installed on the septic system. A supplemental site plan with all of the necessary details for installation of the system will be required prior to the release of the building permit (if applicable) and septic system installation permit. In addition, an operation and maintenance contract agreement must be filed with Howard County Land Records within 60 days of plan recordation.
12. MDE has approved the Variance to allow the Sewage Disposal Area on this lot to be on a down gradient of the well on Lot 13 (5490 Adams Ridge Road, Clarksville) and it is subject to having BAT unit.

"APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS"

*Brian Johnson*  
HEALTH OFFICER: HOWARD COUNTY HEALTH DEPT. DATE: 6/29/2016



**SURVEYORS CERTIFICATION**  
A LICENSED MARYLAND SURVEYOR, EITHER PERSONALLY PREPARED THE SURVEY OR SHOWED HEREON, OR WAS IN RESPONSIBLE CHARGE OVER THE PREPARATION AND THE SURVEYING WORK REFLECTED IN IT, IN COMPLIANCE WITH CHAPTER 12 OF THE MARYLAND MINIMUM STANDARDS CONTRACT FOR LAND SURVEYORS  
*George R. Rickavance*  
GEORGE R. RICKAVANCE  
MD PLS #10664  
Expiration Date: 11/26/2017

06-21-16	Revised per HCHD comment	MDB
06-09-16	Revised Plan per HCHD	MDB
04-07-16	Added perc result field notes and HD letter	MDB
DATE	REVISION	BY

#### PERCOLATION CERTIFICATION AND SITE PLAN

**5650 TEN OAKS ROAD**

5TH ELECTION DISTRICT  
TAX MAP - 34 GRID - 04  
HOWARD COUNTY, MARYLAND  
PARCEL - 10

Surveyed By BPR	Drawn By BPR
Computed By BPR	Checked By BPR
Date: JAN. 2016	
Sheet: 1 OF 1	
Scale: 1 INCH = 30 FEET	
BPR Drawing No.: 15-086-000	

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