

Bureau of Environmental Health

8930 Stanford Boulevard, Columbia, MD 21045

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

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www.hchealth.org

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

Date: February 26, 2020

To: Larry Gaetano (*via email*)
3534 Church Rd.
Ellicott City, MD 21043

Re: **Percolation Test Report**
Larry Gaetano
3534 Church Rd.
Ellicott City, MD 21043

Percolation tests were conducted at 3534 Church Rd. Ellicott City, MD 21043 (Tax Map 25, Parcel 161) on Feb. 20th, 2020. Tests and profile descriptions were documented for locations 1, 2, 3, 4, 5, 6 & 7. Out of 7 test holes 6 passed (1, 2, 3, 4, 5 & 7)

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 conditions. The area must be large enough to accommodate 3 systems (initial and 2 replacements). If 3 systems cannot fit the Health Dept. may consider allowing 2 systems (initial and 1 replacement) which will require Best Available Technology (BAT). The next step in the process is to have an engineer/consultant submit a percolation certification plan to confirm the design of the sewage disposal area.

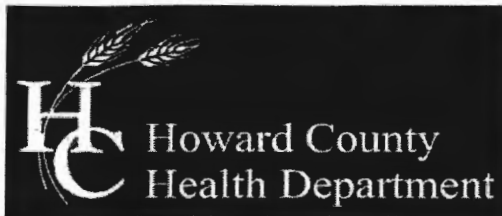
Should you have any questions regarding this evaluation, please contact me. I may be reached at (410) 313-6357 or by email rfreemon@howardcountymd.gov

Respectfully,

A handwritten signature in black ink, appearing to read 'Robert Freemon', is written above the typed name.

Robert Freemon
Bureau of Environmental Health
Well & Septic Program

Attachment: Percolation Field Notes



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SEWAGE DISPOSAL SYSTEM SPECIFICATIONS WORKSHEET

Address: 3534 Church Rd. (Map: 25, Grid: 7, Parcel: 161)

Subdivision: Lot:

Table with 4 columns: System Type, Application rate, Effective area beginning depth, Bottom maximum depth. Rows include Initial system, 1st Replacement, and 2nd Replacement.

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:

- Trenches must be located to provide room for 3 systems in the disposal area
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'

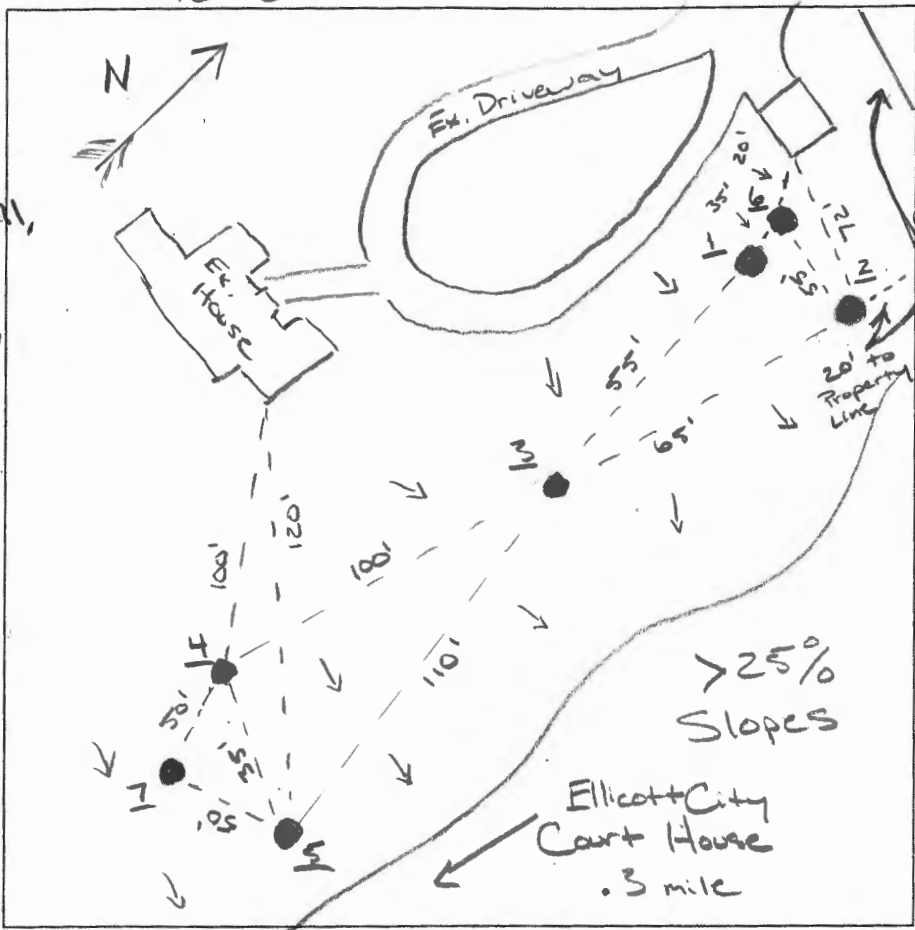
Additional requirements:

SDA Must Fit 3 Systems

Approved: RSF Date: 2/26/2020

To Church Road →

AP _____



- (5) DB, L, Fine Roots
- .8' YR, SB, OM, SCL, CS Sidewall, WPO, MVFR, Fine Mica
- 2.2' RY, Thick Platy, SL, MFR, WPO, CW Sidewall, Fine Mica
- 6' PY, VPY, Thick Platy, LS, CW Sidewall, Micaceous
- 7' LG, W, VPY, UFS, MVFR, CW Sidewall, ds
- 12' [Shaded Box]
- (4) DB, L, Many Roots
- .8' YR, SB, Thick Platy, SCL, CS Sidewall, WPO, MVFR, Micaceous
- 2.5' RY, Thick Platy, SL, MFR, WPO, CW Sidewall, Micaceous
- 7.5' LS-S course 10% pumiceous
- (3) DB, L, Roots
- .8' YB, Thick Platy, L, MVFR, WPO
- (3) YB, Thick Platy, SL, WSP, MVFR, Micaceous
- 6' YB, LS
- 12' ↓

- (2) DB, L
- .8' YR, Platy, CW Sidewall, MFI, WSP, Fine Mica, 10% Course Pumiceous
- (3) RY, Thick Platy, SL, MVFR, WPO, Fine Mica, 15% Course Pumiceous
- 8' PY, VPY, Thick Platy, LS - UFS
- 12' ↓
- (1) [Vertical Column]
- (2) [Vertical Column]
- (7) [Vertical Column]
- (3) [Vertical Column]

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
2/24/2020	5	4 / 12	10:42	10:50	11:02	12	P
	4	4 / 11	11:32	11:34	11:40	6	P
	3	2 / 12	No Movement				F
	3	4 / 12	12:16	12:20	12:24	5	P
	2	4 / 12	12:53	12:55	1:00	5	P
	1	4 / 12	1:18	1:22	1:27	5	P
	6	OBSERVATION					F
	7	OBSERVATION					P

REMARKS Hole #6 had >50% Rock to 6'

SANITARIAN RSF BACKHOE _____ OTHERS Homeowner

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

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

3534 Church Rd.