

SETEC

SOIL AND ENVIRONMENTAL TECHNOLOGY, INC
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General Information

Date: 11/23/2020
 Applicant: Guy Price
 Address: P.O. Box 366, Daleville, VA 24083
 Directions to the Property: State Rte 615, R onto Penny Royal Rd, +/- 0.4 miles to property located on the Right
 Tax Map ID: 131-A 27
 Acreage: 13.920 acres

Montgomery County Health Department
 Telephone #: 556-3213
 Parcel ID: 005907

Soil Information Summary

1. Position in landscape satisfactory Yes ☒ No ☐ Describe: Sideslope
2. Slope 38 %
3. Depth to rock/imperious strata: Max. Min. >60" None
4. Depth to seasonal water table (gray mottling or gray color) No ☒ Yes ☐
5. Free water present No ☒ Yes ☐ range in inches
6. Soil percolation rate estimated Yes ☒ Texture group 3
 No ☐ Estimated rate 55 Min/inch
7. Percolation test performed Yes ☐ Number of percolation test holes
 No ☒ Depth of percolation test holes
 Average percolation rate

Name and title of evaluator: Bill Evans PSS

Signature: *Bill Evans*

- X Site Approved:** Gravelees absorption trenches dispersing septic tank effluent to be placed at 36" at site designated. Site provides a total of 900 square feet of gravelless absorption area for the main drainfield and a total of 480 square feet of gravelless absorption area for the reserve drainfield.

Site Disapproved:

Reason for rejection: (check all that apply)

- 1 ☐ Position in landscape subject to flooding or periodic saturation.
- 2 ☐ Insufficient depth of suitable soil over hard rock.
- 3 ☐ Insufficient depth of suitable soil to seasonal water table.
- 4 ☐ Rates of absorption too slow.
- 5 ☐ Insufficient area of acceptable soil for required drainfield, and/or reserve area
- 6 ☐ Proposed system too close to well
- 7 ☐ Other (Specify)

PROFILE DESCRIPTION SOIL EVALUATION REPORT

Date of Evaluation: 11/17/2020

Montgomery County Health Department

x See application sketch

See construction permit

Applicant:

Guy Price

Tax Map ID: 131-A 27 (13.920 acres on Penny Royal Road)

Hole #	Horizon	Depth (in)	Description	Texture Group
Auger 1	A	0-3	Dark Yellowish Brown (10YR 4/4) sandy loam	2
	BA	3-14	Brown (7.5YR 5/4) sandy loam	2
	Bt1	14-36	Strong Brown (7.5YR 5/8) sandy clay loam	2
	2Bt2	36-52	Yellowish Red (5YR 5/6) silty clay loam	3
	2BC	52-60	Yellowish Red (5YR 5/6) silty clay loam; common Yellow (10YR 7/6) lithochromic mottles	3
Auger 2	A	0-1	Brown (7.5YR 4/4) loam	2
	BA	1-8	Brown (7.5YR 5/4) silt loam	3
	Bt	8-27	Strong Brown (7.5YR 5/8) silty clay loam	3
	BC	27-44	Strong Brown (7.5YR 5/8) silty clay loam; common Very Pale Brown (10YR 7/3) lithochromic mottles	3
	C	44-60	Reddish Yellow (7.5YR 6/8) silt loam	3
Auger 3	A	0-1	Brown (7.5YR 4/4) sandy loam	2
	BA	1-8	Strong Brown (7.5YR 5/6) sandy loam	2
	2Bt1	8-16	Strong Brown (7.5YR 5/8) silt loam	3
	2Bt2	16-40	Yellowish Red (5YR 5/8) silty clay loam	3
	2BC	40-50	Strong Brown (7.5YR 5/8) silt loam	3
	2C	50-60	Reddish Yellow (7.5YR 6/8) silt loam	3
Auger 4	A	0-1	Brown (7.5YR 4/4) sandy loam	2
	BA	1-18	Strong Brown (7.5YR 5/6) sandy loam	2
	Bt	18-52	Strong Brown (7.5YR 5/8) sandy clay loam	2
	BC	52-60	Strong Brown (7.5YR 5/8) sandy clay loam	2

DRAINFIELD RECOMMENDATIONS, DESIGN BASIS, & AREA CALCULATIONS

Applicant:

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Tax Map ID: 131-A 27 (13.920 acres on Penny Royal Road)

Main DF		Reserve DF	
Type of system	Gravity-Gravelless Trenches	Reserve Area Required	Yes
EPR	55	Type of Reserve	Gravity-Gravelless Trenches
Slope %	38	EPR	55
# Bedrooms	3	Slope %	38
Gallons/Day	450	Gallons/Day	225
Width of Trench (ft.)	3	Width of Trench (ft.)	3
Total Square Ft. of Gravelless Trench Bottom Required per BR	309	Total Square Ft. of Gravelless Trench Bottom Required	464
Total Square Ft. of Gravelless Trench Bottom per BR in Design	320	Total Square Ft. of Gravelless Trench Bottom in Design	480
Total Square Ft. of Gravelless Trench Bottom Required	927	# Lines of Reserve	4
Total Square Ft. of Gravelless Trench Bottom in Design	960	Line Length (ft.)	40
# Lines Installed	4	Installed <24" from Rock or Other Impervious Strata	No
Length of Line Installed (ft.)	80	Centers (ft.)	12
Installed <24" from Rock or Other Impervious Strata	No	Width Required (ft.)	39
Centers (ft.)	12	Width in Design (ft.)	39
Width Required (ft.)	39	Installation Depth (inches into natural soil)	36
Installation Depth (inches into natural soil)	36	Amount of Backfill Required (inches)	N/A
Amount of Backfill Required (inches)	N/A		

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$$I'' = 100'$$

H/T
ROGER DUFF UNDERWOOD AND
PATRICIA R. UNDERWOOD

101.610M

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567.49

LINE	LINE	DISTANCE
14M	RE-CLASH	31.21'
11	53.10W 51' W	64.00'
12	156.20N 51' W	64.00'
13	57.10N 27' W	60.69'
14	5.21' N 61' W	44.17'
15	56.20' N 24' W	65.44'
16	58.67' N 25' W	108.41'
17	58.67' N 25' W	23.00'
18	51.5' N 46.30' W	29.30'
19	55.97' N 12' W	60.18'
20	55.75' N 30' W	56.42'
21	53.51' N 17' W	71.75'
22	53.51' N 17' W	44.87'
23	55.62' N 56' W	53.51'
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