

SOIL AND ENVIRONMENTAL TECHNOLOGY, INC 111 N. Franklin Street, Christiansburg, VA 24073 Phone: (540) 381-0309 Fax: (540) 381-9430 E-mail: setec@soilandenvironmentaltechnology.com

Date: Applicant: Address:	Gene 5/31/2024	eral Information Patrick County Phone #:	Health Department			
Directions to the Property: Subdivision: Tax Map ID:	US-58 W, R on VA-8 N (10.2 mi), R on VA-40 E (4.4 mi), L on Rte 710/Woods Gap Rd (0.6 mi), R on Rte 716/Short Cut Dr, +/- 0.2 miles to property on right Short Cut Dr Lot: 5 4918-41-A (15.3285 acre portion)					
1. Position in	Soil Infolandscape satisfactoryYes x	rmation Summary	ope			
2. Slope 19	9 %					
3. Depth to ro	ock\impervious strata: Max. >60"	Min. N	lone			
4. Depth to se	easonal water table (gray mottling or gr	ray color) No 🗴 Yes 🗌				
5. Free water	present No x Yes	range in inches				
6. Soil percol		tture group 3 imated rate 65 Min/inc	h			
7. Percolatior	No 🗙 Depth o	r of percolation test holes of percolation test holes e percolation rate				
Name and title o	of evaluator: David Hall	PSS/AOSE				
Signature:	10A2l					

X Site Approved: Absorption trenches dispersing septic tank effluent to be placed at 26" depth at site designated. Site provides a total of 1620 square feet of absorption area for the primary drainfield and 810 square feet for reserve.

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 Ev	aluation:	5/16/2024	Patrick	County	Health Department			
	pplication s		See construction permit					
Subdivision:Short Cut DrLot: 5TM#: 4918-41-A (15.3285 acre portion on Short Cut Dr)								
Hole #	Horizon	Depth (in)	Description		Texture Group			
Auger 1	Ap BA Bt BC	0-6 6-12 12-24 24-60	Brown (10YR 4/3) Loam Red (2.5YR 4/6) Loam Red (2.5YR 5/6) Clay Loam Strong Brown (7.5YR 5/8) Loam		2 2 3 2			
Auger 2	Ap BA Bt1 Bt2 Bt3	0-3 3-6 6-16 16-30 30-60	Brown (10YR 4/3) Loam Red (2.5YR 4/6) Loam Red (2.5YR 5/6) Clay Loam Red (2.5YR 4/6) Clay Loam Dark Red (2.5YR 3/6) Clay Loam		2 2 3 3 3			
Auger 3	Ap BA Bt1 Bt2 Bt3	0-3 3-6 6-16 16-30 30-60	Brown (10YR 4/3) Loam Red (2.5YR 4/6) Loam Red (2.5YR 5/6) Clay Loam Red (2.5YR 4/6) Clay Loam Dark Red (2.5YR 3/6) Clay Loam		2 2 3 3 3 3			
Auger 4	Ap BA Bt1 Bt2 Bt3	0-3 3-6 6-16 16-30 30-60	Brown (10YR 4/3) Loam Red (2.5YR 4/6) Loam Red (2.5YR 5/6) Clay Loam Red (2.5YR 4/6) Clay Loam Dark Red (2.5YR 3/6) Clay Loam		2 2 3 3 3			

DRAINFIELD RECOMMENDATIONS, DESIGN BASIS, & AREA CALCULATIONS

Subdivision: Short Cut Dr Lot: 5

TM#: 4918-41-A (15.3285 acre portion on Short Cut Dr)

Main DF		Reserve DF	Reserve DF		
Type of system	Gravity	Reserve Area Required	Yes		
EPR	65	Type of Reserve	Gravity		
Slope %	19	EPR	65		
# Bedrooms	3	Slope %	19		
Gallons/Day	450	Gallons/Day	225		
Width of Trench (ft.)	3	Width of Trench (ft.)	3		
Total Square Ft. of Trench Bottom Required per BR	496	Total Square Ft. of Trench Bottom Required	744		
Total Square Ft. of Trench Bottom per BR in Design	540	Total Square Ft. of Trench Bottom in Design	810		
Total Square Ft. of Trench Bottom Required	1488	# Lines of Reserve	3		
Total Square Ft. of Trench Bottom in Design	1620	Line Length (ft.)	90		
# Lines Installed	6	Installed <24" from Rock or Other Impervious Strata	No		
Length of Line Installed (ft.)	90	Centers (ft.)	10		
Installed <24" from Rock or Other Impervious Strata	No	Width Required (ft.)	30		
Centers (ft.)	10	Width in Design (ft.)	30		
Width Required (ft.)	53	Installation Depth (inches into natural soil)	26		
Installation Depth (inches into natural soil)	26	Amount of Backfill Required (inches)	N/A		
Amount of Backfill Required (inches)	N/A				
		Type of Well Recommended	3C		
		Amount of Casing & Grout (ft.)	20' min		

