

Auction Tract 3

SETEC

SOIL AND ENVIRONMENTAL TECHNOLOGY, INC
111 N. Franklin Street, Christiansburg, VA 24073
Phone: 540-381-0309

General Information

Date: 8/14/02
Applicant: John Atkinson
Address: P.O. Box 10879, Southport, NC 28461
Owner: Address:
Location:
Subdivision: Stone Ridge Phase I Lot: 16
Telephone No: Health Department

Soil Information Summary

1. Position in landscape satisfactory Yes ☒ No Describe: Sideslope
2. Slope 8 %
3. Depth to rock\impervious strata: Max. Min. None ☒
4. Depth to seasonal water table (gray mottling or gray color) No ☒ Yes inches
5. Free water present No ☒ Yes range in inches
6. Soil percolation rate estimated Yes ☒ No Texture group 2 Estimated rate 40 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: Charles Nelson\David Hall\Bill Evans Soil Scientist

Signature: *Charles Nelson*

Department Use

Site Approved: depth at site designated on permit.

Site Disapproved:

Reason for rejection:

- 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 over 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: 8/14/02

Health Department
Identification No.

x See application sketch

See construction permit

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Hole #	Horizon	Depth	Description	Texture Group
1	Ap	0-4	Dark Yellowish Brown (10YR 4/4) loam	2
	BA	4-12	Yellowish Brown (10YR 5/4) loam	2
	Bt	12-32	Strong Brown (7.5YR 5/6) sandy clay loam; moderate medium subangular blocky structure	2
	C	32-45	Yellowish Brown (10YR 5/6) sandy loam; common White (10YR 8/1) weathered rock fragments	2
	AR	45	Loose rock	
2	Ap	0-8	Dark Yellowish Brown (10YR 4/4) loam	2
	Bt	8-16	Yellowish Brown (10YR 5/8) clay loam; moderate medium subangular blocky structure	3
	BC	16-36	Strong Brown (7.5YR 5/6) sandy clay loam; moderate medium subangular blocky structure	2
	C	36-50	Reddish Yellow (7.5YR 6/6) sandy loam; common White (10YR 8/1) weathered rock fragments	2
3	Ap	0-6	Dark Yellowish Brown (10YR 4/4) loam	2
	BA	6-16	Light Yellowish Brown (10YR 6/4) loam	2
	Bt	16-32	Yellowish Brown (10YR 5/6) sandy clay loam; moderate medium subangular blocky structure	2
	C1	32-38	Brownish Yellow (10YR 6/8) sandy loam	2
	C2	38-50	Yellow (10YR 7/8) sandy loam; many White (10YR 8/1) weathered rock fragments	2

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**DRAINFIELD RECOMMENDATIONS
DESIGN BASIS & AREA CALCULATIONS**

Type of system	Gravity		
EPR	40	Reserve Area Required	NO
Slope %	8	Type of Reserve	N/A
# Bedrooms	4	Length of Reserve (feet)	N/A
Installed <24" from Rock or Other Impervious Strata	N/A	# Lines in Reserve	N/A
Area (Sq. ft.) required per bedroom	314	Square Footage in Reserve	N/A
Absorption Area Increase %	N/A	Backfilling Required	NO
Total Square ft. required (Main DF)	1256	Backfilling Depth (inches)	N/A
Line Length (feet)	90	Width required (Main DF)(ft.)	39
# Lines Installed	5	Width of Available Area (Main DF + Reserve) (ft.)	39
Installation Depth inches (into natural soil)	24	Length of Available Area (ft.)	90
Width of Trench (feet)	3	Square Footage in Design (Main DF + Reserve)	1350
Centers (feet)	9		