

## SOIL AND ENVIRONMENTAL TECHNOLOGY, INC 111 N. Franklin Street, Christiansburg, VA 24073

Phone: 540-381-0309

		General	l Information			
Date: 8/20/02 Applicant: John Atkinson Address: P.O. 10879 Southport, I Owner: Location: Subdivision: Stone Ridge Phase I				'elephone No	Health Depar	tment
			Lot:	22		
		Soil Inform	nation Summary			
1.	Position in landscape satisfactory	Yes	x No	Describe:	Sideslope	
2.	Slope 24 %			2 0001100.	Sidestope	
3.	Depth to rock\impervious strata:	Max.	Min.	. 48"	None	
4.	Depth to seasonal water table (gra	y mottling or	r gray color)	No x	Yes	inches
5.	Free water present No x	Yes		range in incl	nes	
6.	Soil percolation rate estimated	Yes x No	Texture group Estimated rate	3 60	Min/inch	
7.	Percolation test performed Yes No	x Deptl	ber of percolation h of percolation te age percolation ra	st holes		
	ature: Charles		vid Hall\Bill Evan	s	Soil Scientist	
	Site Approved:	Depar	tment Use	dep	th at site designate	d on permit.
	Site Disapproved:					
Dage	on for rejection.					

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

## Profile Description SOIL EVALUATION REPORT

Date of Evaluation:

8/20/02

Health Department Identification No.

x See application sketch

See construction permit

Subdivision:

Stone Ridge

Lot: 22

Hole #	Horizon	Depth	Description	Texture
1	Аp	0-4	Dark Brown (10YR 3/3) loam	Group
	Bt	4-30	Yellowish Red (5YR 5/6) gravelly clay loam; moderate	2
			medium subangular blocky structure	3
	BC	30-45	Yellowish Red (5YR 5/6) clay loam	3
2	Ap	0-4	Dark Brown (10YR 3/3) loam	2
	BA	4-14	Yellowish Brown (10YR 5/6) clay loam	2
	Bt	14-32	Yellowish Brown (10YR 5/6) silty clay loam; moderate	3
			medium subangular blocky structure	3
	С	32-48	Yellowish Red (5YR 5/6) & Brownish Yellow (10YR 6/8) silty clay loam	3
3	Ap	0-8	Dark Brown (10YR 3/3) loam	2
	Bt	8-28	Yellowish Brown (10YR 5/6) gravelly loam	2
	C	28-48	Yellowish Brown (10YR 5/6) gravelly loam; common Pale	2 2
			Brown (10YR 6/3) weathered rock fragments	4
	R	48	Hard Rock	

Subdivision: Stone Ridge

Lot:

22

# DRAINFIELD RECOMMENDATIONS DESIGN BASIS & AREA CALCULATIONS

Type of system EPR Slope % # Bedrooms Installed <24" from Rock or	Low Pressure 60 24 3	Distribution Reserve Area Required Type of Reserve Length of Reserve (feet)	YES Puraflo 55
Other Impervious Strata Area (Sq. ft.) required per pedroom	N/A	# Lines in Reserve	**
	325	Square Footage in Reserve	1320
Absorption Area Increase % Total Square ft. required (Main DF)	N/A	Backfilling Required	NO
	975	Backfilling Depth (inches)	N/A
Line Length (feet)	55	Width required (Main DF)(ft.) Width of Available Area (Main	59
# Lines Installed Installation Depth inches (into	9	DF + Reserve) (ft.)	83
natural soil)	26	Length of Available Area (ft.) Square Footage in Design	55
Width of Trench (feet) Centers (feet)	2 7	(Main DF + Reserve)	2805

### Notes:

LPD system needs to be designed by an engineer.

<sup>\*\*</sup> See engineering design