

*SOILS & DRAINFIELD  
ANALYSIS of VIRGINIA LLC  
11101 River Road – Chesterfield, Va. 23838  
Phone (804) 586-5643 Fax (804) 504-5696*

**AOSE / PE Report For  
Certification Letter**

**Location of Property:** Parcel 1; 33.97 Acres; Located at the end of Allen Drive in Stony Springs Subdivision and west of Flatfoot Road; Dinwiddie County, Va.

**Application or Client and Address:**  
American Timberland Company  
P.O. Box 68  
Alberta, Va. 23821

**Prepared by AOSE/PE:**  
William W. Hopson

**Date of Report:** March 12, 2008  
**Revision Date:**

**AOSE/PE Job Number:** 07-0105-09  
**Health Dept. ID No.:**

**Contents/Index of Report:**

Page 1: Cover Page as Required by VDH  
Page 2: Date, Owner, Location Info, General Info, Drainfield Construction Specs,  
Percolations Lines and Absorption Area  
Page 3: Site and Soil Info, Abbreviated Design  
Page 4: Soil Profile Descriptions  
Page 5: Site Sketch

RECEIVED MAR 17 2008

**Certification Statement(s):**

I hereby certify that the evaluation and / or design contained herein were conducted in accordance with the Sewage Handling and Disposal Regulations (12 VAC 5-610) the Private Well Regulations (12 VAC 5-615) and other applicable polices of the Virginia Department of Health. Furthermore, I certify that my evaluation and/or design contained herein comply with all applicable laws, regulations and policies implemented by the Virginia Department of Health.

**This report is only valid if presented to the local Virginia Department of Health with a certified survey plat showing the location of the proposed drainfield area.**

I recommend a Certification Letter be Issued.

Stamp & Signature:

*William W. Hopson*

Date: March. 12, 2008

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**AOSE Drainfield Certification Letter**  
**Dinwiddie County Health Department**  
Health Department ID Number: \_\_\_\_\_

**DATE:** March 12, 2008

**OWNER/AGENT:** American Timberland Company  
P.O. Box 430  
Alberta, Va. 23821

**PROPERTY & LOCATION INFORMATION:** Parcel 1; 33.97 Acres; Located at the end of Allen Drive in Stony Springs Subdivision and west of Flatfoot Road; Dinwiddie County, Va.

**WATER SUPPLY:** Private Class III Well Cased: 20'+ Grouted: 20'+

**GENERAL INFORMATION:**

Type of Use: New 3 Bedroom Single Family Home With No Basement  
Daily Flow: 450 gpd  
System Type: Type II, Conventional Pump Septic Tank-Drainfield System

**SITE & SOIL INFORMATION:**

Parent Material: soils are residual, weathered granite of the Piedmont Physiographic Province  
Description of landscape: upland, sideslope; linear-linear; cleared lot

Slope: 2-4 %

Depth to Cr or Rock: 60'+

Depth to impervious strata: 60'+

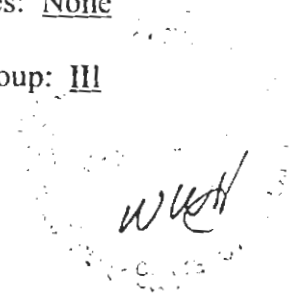
Depth to Redox mottles: None Depth to Chroma II mottles: None

Free Water Present: From    to    None X

Soil Percolation Rate: 60 min/in (estimated) Texture Group: III

Site Evaluated By: William W. Hopson; AOSE # 297

Date of Evaluation: Aug. 2007

A circular stamp with a dotted border is located in the bottom right corner. Inside the stamp, there is a handwritten signature that appears to be 'W. Hopson'.

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**ABBREVIATED DESIGN FORM:**

Design Basis:

Estimated Percolation Rate: 60 mpi  
Square Feet Required Per Bedroom: 452  
Number of Bedrooms: 3  
Total Square Footage Required: 1356

Design Calculations:

Number of Trenches: 6  
Length of Trenches: 76'  
Width of Trenches: 3'  
Center to Center Spacing: 9'  
Total Square Footage in Design: 1368  
Installation Depth: 30"

Area Documented (total footprint):  $90' \times 90' = 8100\text{sq. ft.}$   
Area Required (total footprint):  $48' \times 76' = 3648 \text{ sq. ft.}$

Reserve Drainfield Required: Yes  No

Proposed Reserve:

In-Ground Advanced Secondary Pretreated Drainfield  
Estimated Percolation Rate: 60 mpi.  
Loading Rate = .74  
Square Footage Required:  $450\text{gal}/.74 = 609$   
Proposed Layout:  $2 \times 68' \times 3' = 612 \text{ sq. ft.}$

Area Documented (total footprint):  $90' \times 90' = 8100 \text{ sq. ft.}$   
Area Required (total footprint):  $12' \times 68' = 816 \text{ sq. ft.}$

*WUD*

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**SOIL PROFILE DESCRIPTIONS:**

HOLE	HORIZON	DEPTH	DESCRIPTION	TEXTURE
#1	AE	0-8	yellowish brown 10 yr 5/6 and brownish yellow 10 yr 6/8; friable; sandy loam	11b
WWH	Bt	8-36	reddish yellow 5 yr 5/8 ; friable; gritty; sandy clay loam	11b
	BC	36-60+	reddish yellow 5 yr 5/8; streaked with pale yellow 2.5 y 84 friable; gritty, sandy loam	11b
#2	A	0-12	dark brown 7.5yr 3/3 ; friable; sandy loam	11b
WWH	E	12-28	dark yellowish brown 10 yr 3/4; sandy loam	11b
	Bt	28-46	yellowish brown 10 yr 5/6 ; friable; sandy clay loam	11b
	BC	46-60+	reddish yellow 5 yr 5/8; streaked with pale yellow 2.5 y 84 friable; gritty, sandy loam	11b
#3	A	0-12	dark brown 7.5yr 3/3; friable; sandy loam	11b
WWH	E	12-20	dark yellowish brown 10 yr 3/4; friable; sandy loam	11b
	Bt1	20-36	reddish yellow 5 yr 5/8 to red 2.5 y 5/8; sandy clay loam	11b
	Bt2	36-48	reddish yellow 5 yr 5/8 and yellowish brown 10 yr 5/6; friable; clay loam	11l
	BC	48-60+	reddish yellow 5 yr 5/8 and yellowish brown 10 yr 5/6; friable; sandy clay loam	11b
#4	A	0-10	dark brown 7.5yr 3/3; friable; sandy loam	11b
WWH	E	10-18	dark yellowish brown 10 yr 3/4; friable; sandy loam	11b
	Bt	18-50	reddish yellow 5 yr 5/8 ; friable; sandy clay loam	11b
	BC	50-60+	reddish yellow 5 yr 5/8 ; friable; light sandy clay loam to sandy loam	11b
#5	A	0-12	dark brown 7.5yr 3/3; friable; sandy loam	11b
WWH	E	12-30	dark yellowish brown 10 yr 3/4; friable; sandy loam	11b
	Bt	30-50	reddish yellow 5 yr 5/8 ; friable; sandy clay loam	11b
	BC	50-60+	reddish yellow 5 yr 5/8 ; friable; light sandy clay loam to sandy loam	11b

*WWH*

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**SITE SKETCH:**

This site sketch includes existing and/or proposed property lines, primary and reserve drainfield areas, proposed building location, driveway, well and soil evaluation borings. This site sketch also includes any observed structures, wells or drainfields within 200' of the proposed area.

