

Soil Summary Report

GENERAL INFORMATION

Date April 18, 2000 Submitted to Louisa County Health Department
Applicant Virginia Timberline, L.L.C. Telephone (877) 280-5263
Address 5154 Courthouse Road, Spotsylvania, VA 22553
Owner Same Address Same
Location Route 522 to Route 720, subdivision located at the end of Rt. 720
Tax Map 29-6, 27, 30, 32, 33, 34, & 57 Subdivision Freshwater Estates
Block/Sec. Lot 2, Site 7-M

SOIL INFORMATION SUMMARY

1. Position in landscape satisfactory Yes No

Describe Wooded/Piedmont/Sideslope

2. Slope 9 %

3. Depth to rock or 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 Texture group II/III

No Estimated Rate 50

7. Permeability test performed Yes
No

If yes, note type of test performed and attach

Site Approved: Primary drainfield to be placed at 54 inch depth at site designated on permit.
If required, reserve drainfield to be placed at 54" depth as designated on permit.

Site Disapproved

Reasons for rejection:

1. Position in landscape subject to flooding or periodic saturation.
2. Insufficient depth of suitable soil over hard rock.
3. Insufficient area of acceptable soil for required drainfield, and/or Reserve Area
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 _____

(attach additional pages if necessary)

The information presented in this submittal package represents the best available information as of the evaluation date noted on page two of this package. Due to the potential for subsequent events to negatively impact the recommendations made in this package, it is our firm's very strong recommendation to submit this documentation to the local health department for approval as soon as it is received by the client. Failure to do so may render the information contained in this package void. M & M Soil Consultants, Inc., as well as the certifying individual, accepts no liability for subsequent events that occur after the date of the evaluation.

SOIL PROFILE DESCRIPTION REPORT

Date of Evaluation November 5, 1999

Freshwater Estates Lot 2, Site 7-M

Where the local health department conducts the soil evaluation, the location of profiles holes may be shown on the schematic drawing on the construction permit or the sketch submitted with the application. If soil evaluations are conducted by a private soil scientist, location of profile holes and sketch of the area investigated including all structural features, i.e., sewage disposal systems, wells, etc., within 100 feet of site (See Section 4) and reserve site shall be shown on the reverse side of this page or prepared on a separate page and attached on this form.

See application sketch page See construction permit See sketch attached to this form

Hole	Horizon	Depth (inches)	Description of color, texture, etc.	Texture Group
1	A	0-3	10YR 5/3 Gravelly Silt Loam, Friable	III
	BA	3-7	7.5YR 5/4 Silt Loam, Friable	III
	Bt1	7-24	5YR 5/8 Silty Clay Loam, Friable to Firm	III
	Bt2	24-54	2.5YR 4/8, 5/8 Silty Clay Loam, Firm	III
	BC	54-72	2.5YR 4/6, 4/8 with few 10R 4/6(parent) mottles: Silt Loam. Friable. common clay flows	III
2	A	0-12	10YR 5/4 Silt Loam, Friable	III
	Bt	12-48	2.5YR 5/8 Silty Clay Loam, Firm	III
	BC	48-72	5YR 5/8, 2.5YR 5/8 with few 10YR 6/8, 7/8(parent) mottles: Heavy Silt Loam to Light Silty Clay Loam. Friable to Firm, common clay flows	III
3	A	0-6	7.5YR 4/3 Silt Loam, Friable	II
	Bt	6-38	5YR 5/8 with few 10R 3/6(parent) mottles: Silty Clay Loam. Firm. few channers	III
	C1	38-52	10R 3/6, 4/6 Channery Loam, Very Friable. few clay flows	II
	C2	52-72	10R 5/6, 2.5YR 5/8, 7.5YR 6/8 Loam to Fine Sandy Loam. Very Friable	II
4	A	0-3	10YR 4/3 Silt Loam, Friable	III
	BA	3-10	7.5YR 5/4 Silt Loam, Friable	III
	Bt	10-35	5YR 5/8 Silty Clay Loam, Firm	III
	BC	35-48	2.5YR 5/8, 5YR 5/8 with few 10YR 7/8(parent) mottles; Light Silty Clay Loam. Friable to Firm, few gravels	III
	C	48-72	Multicolored 5YR 5/8, 7.5YR 6/8, 10YR 6/8, 2.5Y 5/6 Loam. Very Friable. few quartz gravels	II
5	A	0-3	10YR 4/2 Loam, Friable	II
	BA	3-14	10YR 5/4 Silt Loam, Friable	III
	Bt	14-48	5YR 5/8, 2.5YR 4/8 Silty Clay Loam, Friable to Firm	III
	BC	48-60	5YR 5/8, 6/8 with few 7.5YR 6/8(parent) mottles; Heavy Loam, Friable. few clay flows	II
	C	60-72	Multi-colored 5YR 5/8, 6/8, 10R 5/4, 10YR 7/8 Loam to Fine Sandy Loam. Very Friable	II

Abbreviated Design Form

Freshwater Estates, Lot 2, Site 7-M

Design Basis

A. a. Estimated Percolation Rate (minutes per inch)	50
b. Recommended trench bottom (inches)	54
c. Depth to restrictive feature or to limit of evaluation if none encountered (inches)	72
d. Minimum separation distance required (may be impacted by perc rate)	12
e. Separation distance in inches provided in design (Ac-Ab)	18
f. Minimum trench bottom due to slope $[(\% \text{ slope} - 10)/2 + (12 \text{ or } 18)]$ (inches)	18
g. Is the slope greater than 10%?	No
h. If Ag is Yes, does greater than 24 inches to rock exist below Ab?	n/a
i. If yes to Ah, add 1 ft. to the minimum center to center spacing beginning at 20% slope and continue for each 10% slope increase above 20%. If no to Ah, add 1 ft. to the minimum center to center spacing beginning at 10% slope and continue for each 10% slope increase above 10%. (Report the value, in feet, of the increase in center to center spacing above the minimum.)	n/a

B. Trench bottom square feet required per bedroom from Table 4.6 based on <input checked="" type="checkbox"/> gravity <input type="checkbox"/> LPD	376
C. Number of Bedrooms	3

Area Calculations

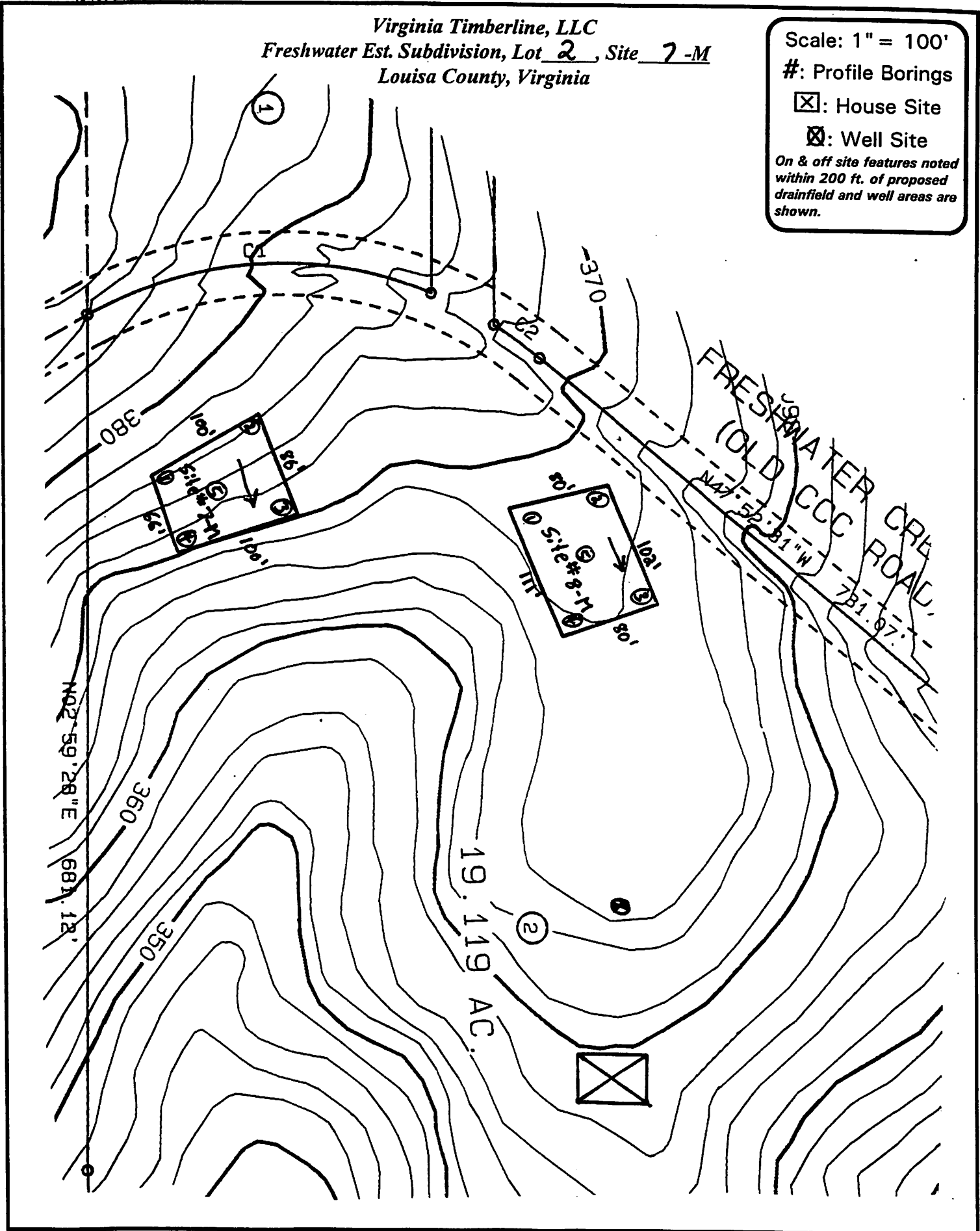
D. Length of trench	100 feet
Length of available area	100 feet
E. Width of trench	3 feet
F. Number of trenches	4
G. Center-to-center spacing	9 feet
H. a. Width required $(G(F-1) + E)$	30 feet
b. Width of available area	66 feet
I. Total square footage required $(B * C)$	1,128 sq. ft.
J. Square footage in design $(D * E * F)$	1,200 sq. ft.
K. Is a reserve area required? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Percent required:	100
Percent available:	100

Additional Notes: 100% reserve is available with the remaining 4, 100' foot lines in this area.

Site Sketch

Virginia Timberline, LLC
Freshwater Est. Subdivision, Lot 2, Site 7-M
Louisa County, Virginia

Scale: 1" = 100'
#: Profile Borings
☒: House Site
⊗: Well Site
On & off site features noted within 200 ft. of proposed drainfield and well areas are shown.



Certification Statement


County: Louisa County

Date: April 17, 2000

Property Identification: Tax Map 29-6, 27, 30, 32, 33, 34, & 57; Freshwater Estates, Lot 2, Site 7-M

Submitted by: Curtis H. Moore

This is to certify according to subsection 32.1-163.5 of the *Code of Virginia* that work submitted for the referred property is in accordance to and complies with the *Sewage Handling and Disposal Regulations* of the Virginia Department of Health. I recommend a subdivision Approval be approved.

AOSE  Date: April 17, 2000
Curtis H. Moore; AOSE 006, CPSS 3401-000049