

M&M Soil Consultants, Inc.
P.O. Box 7004
Fredericksburg, Virginia 22404
(540)373-3414

Installation Area Soil Summary Report

GENERAL INFORMATION

Date May 15, 2006 Submitted to Culpeper County Health Department
Applicant Graystone Homes Telephone (540)825-1600
Address 1202 Orange Road., Culpeper, Va 22701
Owner Same as above Address Same as above
Location From Culpeper, Rt. 29 South, property on left just before Reva Fire Station.
Tax Map 48-23 & 25A7 Subdivision Woodsedge
Block Section Lot Lot 1, Site #1-M Install. System type: Conventional Trench (Upper portion)

SOIL INFORMATION SUMMARY

- Position in landscape satisfactory Yes No
Describe Open Piedmont Sideslope
 - Slope 2%
 - Depth to rock or impervious strata: Max. Min. 38" None
 - Depth to seasonal or perched water table indicators No Yes inches
 - Free water present No Yes range in inches
 - Soil percolation rate estimated Yes No Texture group IIB/III
*Estimated Rate 55-60
 - Permeability test performed Yes No
- If yes, note type of test performed and attach:

**All applicable regulations and the specific soil and site conditions (including the trench sidewalls) were taken into consideration when the estimated percolation rate was assigned.*

Site Approved: Primary drainfield to be placed at 18 inch depth at site designated in this package.
If required, reserve to be placed at 18 inch depth at site designated in this package.

Site Disapproved

Reason(s) for rejection:

- Position in landscape subject to flooding or periodic saturation.
- Insufficient depth of suitable soil over hard rock.
- Insufficient area of acceptable soil for required drainfield, and/or reserve area.
- Rates of absorption too slow.
- Insufficient are of acceptable soil for required drainfield, and/or reserve area.
- Proposed system too close to well.
- 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 the soil profile description report contained in 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, accept no liability for subsequent events that occur after the date of evaluation.



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SOIL PROFILE DESCRIPTION REPORT

Date of Evaluation: April 14, 2006

Graystone Homes. Woodsedge Lot 1, Site #1-M

Where the local health department conducts the soil evaluation, the location of the profile 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 to this form.

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

Hole	Horizor	Depth (inches)	Description of color, texture, etc.	Texture Group
1	Ap	0-9	10YR 4/3 Loam, Friable	IIB
	Bt	9-37	2.5YR 4/6, 4/8 Clay Loam, Friable, 2-3 msbk	III
	BC	37-56	2.5YR 4/8, 5/8, 5YR 6/6, 6/8 Light Clay Loam, Friable to Firm, 1 msbk	III
2	Ap	0-8	7.5YR 4/4 Loam, Friable	IIB
	Bt	8-23	2.5YR 4/6 Clay Loam, Friable to Firm, 2 msbk	III
	BC	23-56	2.5YR 4/6, 4/8, 5/8, 5YR 5/8, 6/6 Light Clay Loam, Firm, 1 msbk	III
	Cr	56+		
3	Ap	0-4	10YR 4/3 Loam, Friable	IIB
	Bt	4-40	2.5YR 4/6, 4/8 with few 5YR 6/6 (parent) mottles; Light Clay Loam, Friable, 2 msbk	III
	C	40-54	Multi-colored 7.5YR 6/6, 5YR 6/6, 2.5Y 5/4, 5/6, 6/6, 6/3, 6/4 Fine Sandy Loam, Very Friable, channery in spots	IIA
4	Ap	0-3	7.5YR 4/3 Loam, Friable	IIB
	Bt	3-25	2.5YR 4/6, 5YR 6/6, 6/8 Light Sandy Clay Loam, Friable, 1-2 msbk	IIB
	C	25-56	Multi-colored 5YR 6/6, 6/8, 10YR 6/6, 2.5Y 4/4, 5/4, 5/6 Channery Fine Sandy Loam, Very Friable	IIA
5	Ap	0-7	7.5YR 4/3 Loam, Friable	IIB
	Bt	7-30	2.5YR 4/6, 4/8 Light Clay Loam, Friable, 2 msbk	III
	C	30-38	Multi-colored 2.5YR 5/4, 5/6, 5/8, 5YR 5/8, 6/6, 7.5YR 6/6, 7/6 Channery Sandy Loam, Friable	IIA
	Cr	38+		



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Installation Area Abbreviated Design Form	
A. System type (Conventional, Drip, Drip Mound, Puraflo pad, Puraflo Trench, Advantex,)	<i>Conventional Trench</i>
B. Estimated or measured Percolation Rate	<i>57.5 mpi</i>
C. Slope	<i>9 percent</i>
D. Depth of Evaluation	<i>38 inches</i>
E. Proposed Installation Depth	<i>18 inches</i>
F. Installing below restriction? <i>No</i>	
G. Minimum Installation Depth (factors in slope, system type, etc.)	<i>18 inches</i>
H. Type of limiting feature	<i>Pervious Paralithic Material (Cr)</i>
I. Depth of limiting feature	<i>38 inches</i>
J. Minimum required stand-off to limiting feature	<i>18 inches</i>
K. Stand-off distance provided in design	<i>20 inches</i>
L. Design based on number of bedrooms	<i>4 bedrooms</i>
M. Square Footage required per bedroom (per gallon if design based on gpd)	<i>432 sq. ft.</i>
N. Available Area Across Slope	<i>100 feet</i>
O. Proposed Width of System (Line length, Pad width, Active Mound width, etc.)	<i>100 feet</i>
P. Width of Trench	<i>3 feet</i>
Q. Center spacing increase due to slope	<i>0 feet</i>
R. Center-to-center spacing (includes correction for slope)	<i>9 feet</i>
S. Number of Lines	<i>6</i>
T. Available area Down Slope (includes area for reserve if combined in this site)	<i>102 feet</i>
V. Down slope distance required for installation	<i>48 feet</i>
W. Total Square Footage required for installation	<i>1,728.00 sq.ft.</i>
X. Total Square Footage in Design	<i>1800 sq.ft.</i>
<p>Does this site require a reserve area? <i>Yes</i> Amount Required <i>100 percent</i></p> <p>Does this site have a reserve area included within it? <i>Yes</i></p> <p>Available area across slope for Reserve <i>100 feet</i></p> <p>Available area down slope for Reserve <i>48 feet</i></p> <p>Total square footage available for Reserve <i>4800 sq.ft.</i></p> <p>Notes: <i>To the best of our knowledge and belief, this site complies with all local ordinances such as the CBPA.</i></p>	



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Reserve Area Soil Summary Report

GENERAL INFORMATION

Date May 15, 2006 Submitted to Culpeper County Health Department
 Applicant Graystone Homes Telephone (540)825-1600
 Address 1202 Orange Road., Culpeper, Va 22701
 Owner Same as above Address Same as above
 Location From Culpeper, Rt. 29 South, property on left just before Reva Fire Station.
 Tax Map 48-23 & 25A7 Subdivision Woodsedge
 Block ___ Section ___ Lot Lot 1, Site #1-M Res. System type: Conventional Trench (Lower portion)

SOIL INFORMATION SUMMARY

1. Position in landscape satisfactory Yes No

Describe Open Piedmont Sideslope

2. Slope 9%

3. Depth to rock or impervious strata: Max. ___ Min. 38" None

4. Depth to seasonal or perched water table indicators No Yes ___ inches

5. Free water present No Yes ___ range in inches

6. Soil percolation rate estimated Yes No Texture group IIB/III
*Estimated Rate 55-60

7. Permeability test performed Yes No

**All applicable regulations and the specific soil and site conditions (including the trench sidewalls) were taken into consideration when the estimated percolation rate was assigned.*

If yes, note type of test performed and attach: _

Site Approved: Primary drainfield to be placed at 18 inch depth at site designated in this package.
If required, reserve to be placed at 18 inch depth at site designated in this package.

Site Disapproved

Reason(s) 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 are 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)



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Reserve Area Abbreviated Design Form	
A. System type (Conv., Drip, Drip Mound, Puraflor pad, Puraflor Trench, Advantex, etc.)	<i>Conventional Trench</i>
B. Estimated or measured Percolation Rate	<i>57.5 mpi</i>
C. Slope	<i>9 percent</i>
D. Depth of Evaluation	<i>38 inches</i>
E. Proposed Installation Depth	<i>18 inches</i>
F. Installing below restriction? <i>No</i>	
G. Minimum Installation Depth (factors in slope, system type, etc.)	<i>18 inches</i>
H. Type of limiting feature <i>Pervious Paralitithic Material (Cr)</i>	
I. Depth of limiting feature	<i>38 inches</i>
J. Minimum required stand-off to limiting feature	<i>18 inches</i>
K. Stand-off distance provided in design	<i>20 inches</i>
L. Design based on number of bedrooms	<i>4 bedrooms</i>
M. Square Footage required per bedroom (per gallon if design based on gpd)	<i>432 sq. ft.</i>
N. Available Area Across Slope	<i>100 feet</i>
O. Proposed Width of Reserve (Line length, Pad width, Active Mound width, etc.)	<i>100 feet</i>
P. Width of Trench	<i>3 feet</i>
Q. Center spacing increase due to slope	<i>0 feet</i>
R. Center-to-center spacing (includes correction for slope)	<i>9 feet</i>
S. Number of Lines proposed for reserve	<i>6</i>
T. Available area Down Slope (does not includes installation area)	<i>48 feet</i>
V. Down slope distance required for reserve	<i>48 feet</i>
W. Total Square Footage required for reserve	<i>1,728.00 sq.ft.</i>
X. Total Square Footage in Design	<i>1800 sq.ft.</i>

Does this lot require a reserve area? Yes Amount Required *100 percent*
 Does this site contain both installation and reserve? No
 Available area across slope for Reserve
 Available area down slope for Reserve
 Total area in square footage available for Reserve
 Percent of Reserve Available *104 percent*

Notes:
 To the best of our knowledge and belief, this site complies with all local ordinances such as the CBPA.

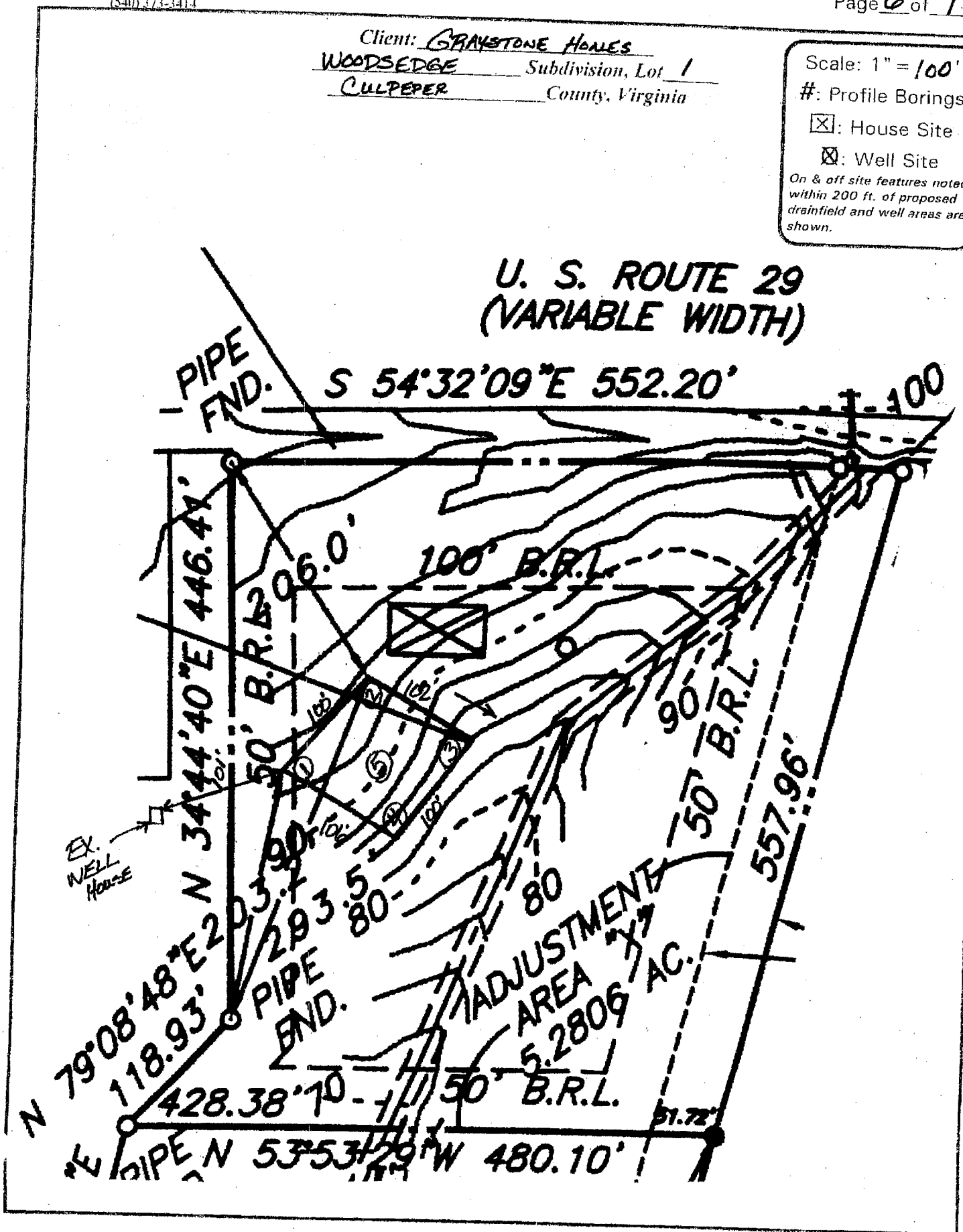


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Site Sketch

Client: GRAYSTONE HOMES
WOODSEDGE Subdivision, Lot 1
CULPEPER 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.



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Certification Statement

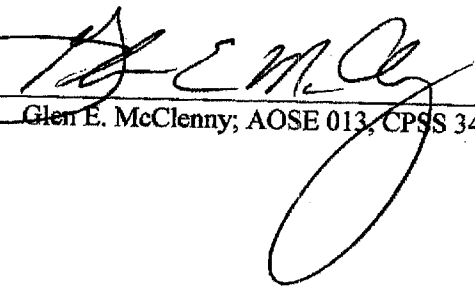
County: Culpeper County

Date: May 15, 2006

Property Identification: Tax Map 48-23 & 25A7, Woodsedge, Lot 1, Site #1-M

Submitted by: Glen E. McClenny; AOSE 013, CPSS 3401-000049

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 
Glen E. McClenny; AOSE 013, CPSS 3401-000049

Date: May 15, 2006

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