Tract 2

Southwest Soils, Inc.

On-site wastewater consulting

P.O. Box 90
Woodlawn, VA 24381

Office (276) 728-3222
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Email swsoils@embarqmail.cc

August 25, 2017

Woltz & Associates Sale

RE: Tax parcel 107-1-26, 50.064 acres, Tract B Pulaski County, VA

To whom it may concern,

A site visit was made on 7/31/2017 to the above referenced property to determine the feasibility of locating an area suitable for an onsite sewage disposal system. The soils were evaluated with a hand auger in the proposed areas to determine if the soils were acceptable under the current Virginia Sewage Handling and Disposal Regulations. An area suitable for a (3) three-bedroom septic system was marked with wooden stakes and flagged with pink ribbon. Further evaluation must be done prior to applying for a construction permit for an onsite sewage system.

This report does not permit construction. A permit must be obtained from the Pulaski County Environmental Health Office prior to construction.

If you have any questions please feel free to contact Stephen Dalton at (276) 733-5682.

Thank You,

Stephen Dalton, AOSE

Appendix I

Commonwealth of Virginia

Application for a Sewage Disposal and/or Water Supply Permit

Health Department ID#_____ (VDH Use)

Owner _____ Address

Phone _____ _____

Agent SW Soils, Inc. Address P.O. Box 90 Phone (276) 728-322

Woodlawn, VA 24381

Directions to Property: Delton Road

Subdivision _____ Phase _____ Lot B

Other Property Identification _____

Map Reference Tax Map No. 107-1-26

Dimension/size of Lot/Property 50.064acres

Residential Use x Yes ____ No

Termite Treatment x Yes ____ No

x Single Family ____ Multi-family

Number of bedrooms 3 Number of Units ____

Basement x Undetermined ____ No

Fixtures in Basement ____ Yes ____ No

Proposed Sewage Disposal Method:

Onsite Sewage Disposal System: x Septic Tank Drainfield

Water Supply: ____ Public ____ New ____ Existing

x Private x New ____ Existing

Describe: **IIIC well**

The property lines, building location and sewage disposal system site are clearly marked and the property is sufficiently visible to see the topography. I give permission to the Department to enter onto the property described for the purpose of processing this application and to perform quality assurance checks as necessary until the sewage disposal system has been constructed and approved.

Signature of Owner/Agent _____ Date 8/25/17

Appendix 2

Soil Summary Report

GENERAL INFORMATION

Date 8/26/17 Submitted to Pulaski County Health Department

Applicant _____ Telephone No. _____

Address _____

Owner Same Address _____

Location: Delton Road.

Tax Map 107-1-26

Subdivision _____ Phase _____ Lot B

SOIL INFORMATION SUMMARY

1. Position in landscape satisfactory Yes x No ____

Describe **sideslope** Physiographic Province **Ridge and Valley**

2. Slope 10-12 %

3. Depth to rock or impervious strata: Max. **60** Min. **42 in.** None _____

4. Depth to seasonal water table (gray mottling or gray color) No x Yes ____ **inches**

5. Free water present No x Yes ____ _____ range in inches

6. Soil percolation rate estimated Yes x Texture group I IIA IIB **III** IV

No ____ Estimated rate **90** min/inch

7. Permeability test performed Yes _____

No x Recommended Installation Depth **20 in.**

If yes, note type of test performed and attach

___ Site Approved: Drainfield to be placed at _____depth at site 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 depth of suitable soil to seasonal water table.
4. ___ Rates of absorption too slow.
5. ___ Insufficient area of acceptable soil for required drainfield, and/or Reverse Area.
6. ___ Proposed system too dose to well.
7. ___ Other Specify _____.

Appendix 3

Evaluation Date: 7/31/17
Evaluator: Stephen Dalton

DRAINFIELD

#1

A	0-6	III	Brown (7.5YR 4/4),SILT LOAM, common fine roots, friable, granular, many fine roots
Bt	6-33	III	Strong Brown (7.5YR 5/6), SILTY CLAY LOAM,, few fine roots, 15% shale fragments
Bt2	33-60	III	Strong Brown (7.5YR 5/8), heavy SILTY CLAY LOAM, 15% shale, manganese stainings

#2

A	0-6	III	Brown (7.5YR 4/4),SILT LOAM, common fine roots, friable, granular, many fine roots
Bt	6-30	III	Strong Brown (7.5YR 5/6), SILTY CLAY LOAM,, few fine roots, 15% shale fragments
Bt2	30-60	III	Strong Brown (7.5YR 5/8), heavy SILTY CLAY LOAM, 15% shale, manganese stainings

#3

A	0-8	III	Brown (7.5YR 4/4),SILT LOAM, common fine roots, friable, granular, many fine roots
Bt	8-32	III	Strong Brown (7.5YR 5/6), heavy SILTY CLAY LOAM,, fine roots, 15% shale fragments, manganese
Bt2	32-50	III	Strong Brown (7.5YR 5/8), heavy SILTY CLAY LOAM, 15% shale, manganese staining, auger refusal at 50"

#4

A	0-7	III	Brown (7.5YR 4/4),SILT LOAM, common fine roots, friable, granular, many fine roots
Bt	7-31	III	Yellowish Brown (10YR 5/8), SILTY CLAY LOAM,, few fine roots, 15% shale fragments
Bt2	31-42	III	Strong Brown (7.5YR 5/8), heavy SILTY CLAY LOAM, 15% shale, manganese staining, auger refusal at 42"

For use with gravity and pump drainfields, enhanced flow systems and low pressure distribution systems when applying for a certification letter or subdivision approval.

Design Basis

A. Estimated Percolation Rate ____90 mpi____

B. Trench bottom square feet Required per bedroom (from Table 4.6 based on __x__ Gravelless) ____590____

C. Number of bedrooms ____3____

Area calculations

D. Length of trench ____100 ft.____ Length of available area ____100 ft.____

E. Width of trench ____3 ft.____

F. Number of trenches ____6____

G. Center-to-center spacing ____10 ft.____

H. Width required ____53 ft.____ Width of available area ____53 ft.____
G(F-1) + E

I. Total square footage required ____1770____
(line B times line C)

J. Square footage in design ____1800____
(D*E*F)

K. Is a reserve area required? __x__ Yes ____No (50%)

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Appendix 6
Abbreviated Design Form
RESERVE

For use with gravity and pump drainfields, enhanced flow systems and low pressure distribution systems when applying for a certification letter or subdivision approval.

Design Basis

A. Estimated Percolation Rate ____90 mpi____

C. Trench bottom square feet Required per bedroom (from Table 4.6 based on __x__ Gravell) ____590____

C. Number of bedrooms ____1.5____

Area calculations

D. Length of trench ____100 ft.____ Length of available area ____100 ft.____

E. Width of trench ____3 ft.____

F. Number of trenches ____3____

G. Center-to-center spacing ____10 ft.____

H. Width required ____33 ft.____ Width of available area ____33 ft.____
G(F-1) + E

I. Total square footage required ____885____
(line B times line C)

J. Square footage in design ____900____
(D*E*F)