

## AOSE/PE Report for Subdivision Approval

<b>Location of property:</b>	Lot <u>LOT 6 10.016 ACRES</u> Section <u>    </u> , Subdivision <u>KOOL LANE</u> , Tax Map # <u>8-108</u> Latitude/Longitude <u>                                </u>
------------------------------	--

<b>Applicant or Client and address:</b>  <u>NEW VENTURES REAL ESTATE LLC</u> <u>1664 ANDERSON HWY SUITE F</u> <u>Powhatan, Va. 23139</u>	<b>Prepared by AOSE/PE:</b>  <u>Kenneth McClenny:AOSE#1275</u>
--	--

<b>Date of Report:</b> <u>9/5/2018</u> <b>Revision Date(s):</b> <u>                    </u>	<b>AOSE/PE Job Number:</b> <u>                                </u> (optional) <b>Health Department I.D. No.:</b> <u>          </u>
--	---

### Contents/Index of this report:

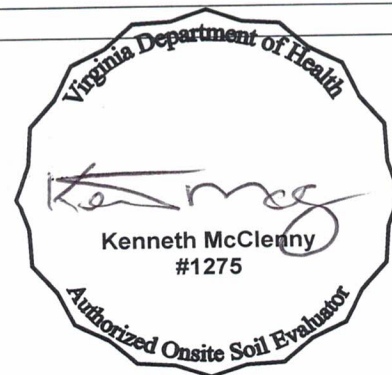
Page	Contents of report	Page	Contents of report
	<i>Installation Area Soil Summary Report</i>		
	<i>Soil Profile Description Report</i>		
	<i>Reserve Area Soil Summary Report</i>		
	<i>Installation Area Abbreviated Design</i>		
	<i>Reserve Area Abbreviated Design</i>		
	<i>Survey Documentation</i>		

### Certification Statement(s)

I hereby certify that the evaluations and/or designs contained herein were conducted in accordance with the Sewage Handling and Disposal Regulations (12 VAC5-610), the Private Well Regulations (12 VAC5-615), and other applicable policies of the Virginia Department of Health. Furthermore, I certify that my evaluation and/or design contained herein complies with all applicable laws, regulations, and policies implemented by the Virginia Department of Health.

X The work attached to this cover page has been conducted under an exemption to the practice of engineering; specifically the exemption in code of Virginia Section 54.1-102.A.11

I recommend a Subdivision Approval be approved.



## Installation & RESERVE Area Soil Summary Report

### GENERAL INFORMATION

Date September 5, 2018 Submitted to Powhatan County Health Department  
Applicant NEW VENTURES REAL ESTATE LLC Telephone (804-814-1955)  
Address 1664 ANDERSON HWY SUITE F Powhatan, Va. 23139  
Owner Same as above Address Same as above  
Location LOCATED ON ROUTE 655 KOOL LANE 0.2 MILES FROM THE INTERSECTION OF 522 PROPERTY ON THE RIGHT HEADED EAST  
Tax Map 8-108 Subdivision KOOL LANE  
Block     Section     Lot LOT 6 10.016 ACRES Install. System type: Conventional Trench (Upper portion)

### SOIL INFORMATION SUMMARY

1. Position in landscape satisfactory Yes ☒ No ☐

Describe SIDESLOPE

2. Slope 5%

3. Depth to rock or impervious strata: Max.     Min.     None ☒     inches

4. Depth to seasonal or perched water table indicators No ☒ Yes ☐     range in inches

5. Free water present No ☒ Yes ☐     range in inches

6. Soil percolation rate estimated Yes ☒ No ☐ Texture group IIB  
\*Estimated Rate 45

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 78 inch depth at site designated in this package.  
If required, reserve to be placed at 78 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)

## SOIL PROFILE DESCRIPTION REPORT

Date of Evaluation: March 20, 2018

NEW VENTURES REAL ESTATE LLC , KOOL LANE , LOT 6 10.016 ACRES

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	A	0-8	10YR 4/3 LOAM	II
	Bt	8-22	5YR 4/6 HEAVY CLAY LOAM	III
	BC	22-64	5YR 4/6 & 6/6 CLAY LOAM TO LIGHT CLAY LOAM	III
	C	64-96	5YR 6/6 LOAM FRIABLE	II
2	A	0-6	10YR 4/3 LOAM	II
	Bt	6-22	5YR 4/6 & 2.5YR 4/6 HEAVY CLAY LOAM	III
	BC	22-60	2.5YR 4/6 & 6/6 CLAY LOAM TO LIGHT CLAY LOAM	III
	C	60-96	2.5YR 6/6, 5YR 4/6 & 6/6 LOAM FRIABLE	II
3	A	0-6	10YR 4/3 LOAM	II
	Bt	6-22	5YR 4/6 HEAVY CLAY LOAM	III
	BC	22-62	5YR 4/6 & 6/6 CLAY LOAM	III
	C	62-96	2.5YR 6/6, 6/4, 5YR 6/6 & 7/6 LOAM FRIABLE	II
4	A	0-8	10YR 4/3 LOAM	II
	Bt	8-26	5YR 4/6 & 2.5YR 4/6 HEAVY CLAY LOAM	III
	BC	26-60	2.5YR 4/6 & 6/6 CLAY LOAM TO LIGHT CLAY LOAM	III
	C	60-96	5YR 6/6 & 8/6 LOAM FRIABLE	II



Installation Area Abbreviated Design Form <i>1676</i>	
A. System type (Conv., Drip, Drip Mound, Puraflo pad, Puraflo Trench, Advantex, etc.)	<i>Conventional Trench</i>
B. Estimated or measured Percolation Rate	<i>45.0 mpi</i>
C. Slope	<i>5.0 percent</i>
D. Depth of Evaluation	<i>96 inches</i>
E. Proposed Installation Depth	<i>78 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>None (Depth of Evaluation)</i>	
I. Depth of limiting feature	<i>96 inches</i>
J. Minimum required stand-off to limiting feature	<i>18 inches</i>
K. Stand-off distance provided in design	<i>18 inches</i>
L. Design based on number of bedrooms	<i>3 bedrooms</i>
M. Square Footage required per bedroom (per gallon if design based on gpd)	<i>344.00 sq.ft.</i>
N. Available Area Across Slope	<i>86 feet</i>
O. Proposed Width of System (Line length, Pad width, Active Mound width, etc.)	<i>86 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>4</i>
T. Available area Down Slope (includes area for reserve if combined in this site)	<i>48 feet</i>
U. Down slope distance required for installation	<i>30 feet</i>
V. Total Square Footage required for installation	<i>1,032.00 sq.ft.</i>
W. Total Square Footage in Design	<i>1032 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>86 feet</i></p> <p>Available area down slope for Reserve <i>12 feet</i></p> <p>Total square footage available for Reserve <i>1032 sq.ft.</i></p>	
<p>Notes:</p> <p><i>To the best of our knowledge and belief, this site complies with all local ordinances such as the CBPA.</i></p>	

## Reserve Area Abbreviated Design Form Lot 6

A. System type (Conv., Drip, Drip Mound, Puraflo pad, Puraflo Trench, Advantex, etc.)	<i>Advantex 3' trench</i>
B. Estimated or measured Percolation Rate	<i>45.0 mpi</i>
C. Slope	<i>5.0 percent</i>
D. Depth of Evaluation	<i>96 inches</i>
E. Proposed Installation Depth	<i>78 inches</i>
F. Installing below restriction? <u>No</u>	
G. Minimum Installation Depth (factors in slope, system type, etc.)	<i>18 inches</i>
H. Type of limiting feature <u>None (Depth of Evaluation)</u>	
I. Depth of limiting feature	<i>96 inches</i>
J. Minimum required stand-off to limiting feature	<i>12 inches</i>
K. Stand-off distance provided in design	<i>18 inches</i>
L. Design based on number of bedrooms	<i>3 bedrooms</i>
M. Loading Rate	<i>0.99 gpd/sq.ft.</i>
N. Available Area Across Slope	<i>86 feet</i>
O. Proposed Width of Reserve (Line length, Pad width, Active Mound width, etc.)	<i>86 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>2</i>
T. Available area Down Slope (does not include installation area)	<i>12 feet</i>
U. Down slope distance required for reserve	<i>12 feet</i>
V. Total Square Footage required for reserve	<i>454.55 sq.ft.</i>
W. Total Square Footage in Design	<i>516 sq.ft.</i>

Does this lot require a reserve area?	<u>Yes</u>	Amount Required	<i>100 percent</i>
Does this site contain both installation and reserve?	<u>Yes</u>		
Available area across slope for Reserve			<i>86 feet</i>
Available area down slope for Reserve			<i>12 feet</i>
Total area in square footage available for Reserve			<i>1032 sq.ft.</i>
Percent of Reserve Available			<i>114 percent</i>

**Notes:**

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



