

RECONNAISSANCE SOIL & SITE EVALUATION

Palmer Lot
111 Osage Drive
Louisburg, NC 27549
Job Number: 8722

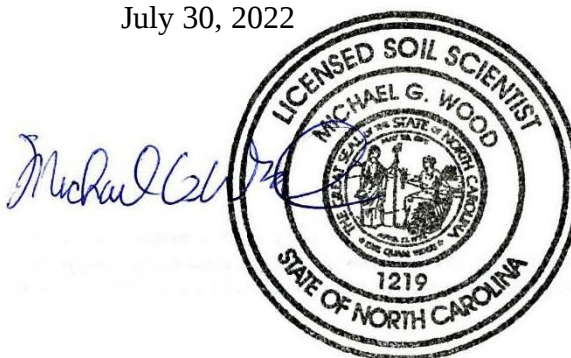
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July 30, 2022



Michael G. Wood, LSS

INTRODUCTION AND SITE DESCRIPTION

A Reconnaissance Soil & Site Evaluation was performed on the 0.4628-acre Palmer Lot located at 111 Osage Drive, Franklin County, NC (PID# 022393). Michael Wood, LSS was retained to evaluate the soil and site conditions and identify suitable areas for placement of on-site subsurface wastewater systems for a single-family residence. The property was evaluated in accordance with the “Laws and Rules for Sewage Treatment and Disposal Systems”, amended December 6, 2018.

The study area is wooded and will be served by a private well. The majority of the site has gullies, eroded slopes, and drainageways that are Unsuitable Topography for subsurface septic systems.

INVESTIGATION METHODOLOGY

The field survey was conducted on July 25, 2022, by Michael G. Wood, LSS and Ethan T. Wood. Soil borings were advanced with hand-augers and soil color determined using a Munsell Soil Color Chart. Observations of the landscape as well as soil properties (depth, texture, structure, soil wetness, restrictive horizons, etc.) were recorded. Soil borings were described per the USDA-NRCS, *Field Book for Describing and Sampling Soils, Version 3.0*. Soil borings and site features are noted in Figure 1.

FINDINGS

Two (2) soil borings were advanced their placements located on Figure 1.

Provisionally Suitable for Conventional Type Systems. Borings Provisionally Suitable for Conventional Systems include Gravel, Accepted, Alternative, Shallow-Placed, and prefabricated permeable block panel systems. While the particulars and costs between the system types can vary considerably, these are generally the preferred system types. This soil appeared adequate to support a long-term acceptance rate (LTAR) of 0.30 GPD/sq-ft.

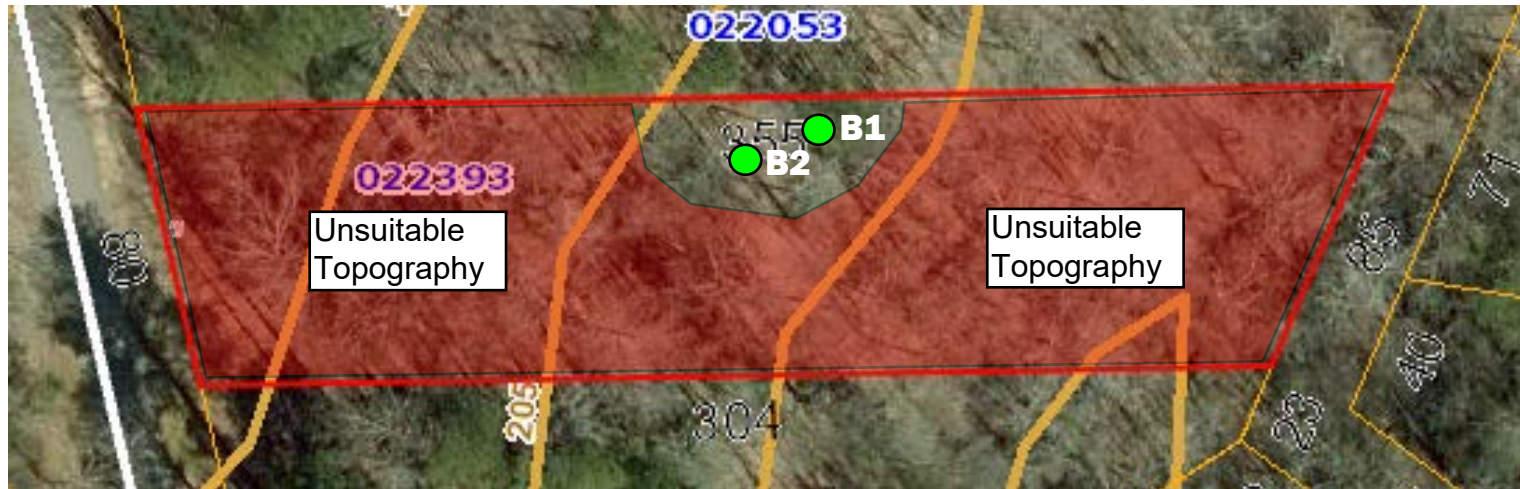
DISCUSSION

Each boring was rated as Provisionally Suitable for a Conventional Type System. However, there is very little area for the drainfield due to the amount of Unsuitable Topography. Additional soil investigations, including a septic field layout and additional soil borings, will be required to determine if the lot is viable for a subsurface septic system.

CONCLUSION

The findings presented herein represent our professional opinion based on our Preliminary Soil and Site Evaluation and knowledge of the current laws and rules governing on-site wastewater systems in North Carolina. Soils naturally change across a landscape and contain many inclusions. As such, attempts to quantify them are not always precise and exact. Due to this inherent variability of soils and the subjectivity when determining limiting factors, there is no guarantee that a regulating authority will agree with the findings of this report.

Figure 1. 111 Osage Drive



● Conventional Soil



Soil Evaluation Form

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111 OSAGE DRIVE

Sheet 1 of 1
Job: 8722
County: Franklin
Date: 7-25-22

Soil Borings

	1	2								
Landscape Position	<i>Terrace</i>	<i>L</i>								
Slope (%)	<i>2</i>	<i>4</i>								
Horizon 1 Depth	<i>0-8</i>	<i>0-27</i>								
Texture	<i>CL</i>	<i>C</i>								
Consistence	<i>FI</i>	<i>FI</i>								
Structure	<i>SBM</i>	<i>SBM</i>								
Clay Mineralogy	<i>SE</i>	<i>SE</i>								
Horizon 2 Depth	<i>8-33</i>									
Texture	<i>C</i>									
Consistence	<i>FI</i>									
Structure	<i>SBM</i>									
Clay Mineralogy	<i>SE</i>									
Horizon 3 Depth										
Texture										
Consistence										
Structure										
Clay Mineralogy										
Horizon 4 Depth										
Texture										
Consistence										
Structure										
Clay Mineralogy										
Horizon 5 Depth										
Texture										
Consistence										
Structure										
Clay Mineralogy										
Soil Wetness										
Restrictive Horizon										
Saprolite										
Other	<i>AR-33</i>	<i>AR-27</i>								
CLASSIFICATION	<i>DS</i>	<i>B</i>								
LTAR (gpd/ft ²)	<i>0.3</i>	<i>0.3</i>								

Comments:

Evaluated by: M. Wood, E. Wood