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SOIL & ENVIRONMENTAL SCIENTISTS

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31 May 2023

James Bell

Reference: Preliminary Soil Investigation

2840 McLean Chapel Church Road, Bunnlevel; PIN 0556-06-7222.000

Dear Mr. Bell,

A site investigation has been conducted for the above referenced property, located on the northern side of McLean Chapel Church Road (SR 2030) in Harnett County, North Carolina. The purpose of this investigation was to determine the site's ability to support subsurface sewage waste disposal systems. All sewage disposal ratings and determinations were made in accordance with "Laws and Rules for Sewage Treatment and Disposal Systems, 15A NCAC 18A .1900". This report represents my professional opinion as a Licensed Soil Scientist but does not guarantee or represent permit approval for any lot by the local Health Department. An improvement permit for all residences will need to be obtained from the Health Department that specifies the proposed home size and location, and the design and location of the septic system to be installed.

The soils were evaluated under moist soil conditions through the advancing of auger borings. This evaluation included observations of soil morphology (texture, structure, clay mineralogy, wetness and organics), topography, and landscape position. Soils in the investigated portions of the site were observed to range from provisionally suitable to unsuitable for subsurface sewage waste disposal (see attached map).

The soils shown as provisionally suitable will adequately function as sewage waste disposal sites. Due to clayey textured subsoil characteristics, you should expect that 60 to 80 feet of chamber drainline would be required for the initial system per bedroom in the home.


The soils shown as provisionally suitable for modified or alternative systems are limited in soil depth to the extent that systems that can be installed ultra shallow will likely be required. This requirement will necessitate the addition of approximately 6 inches of topsoil to completely cover the system. It is likely that ultra shallow conventional type systems can be utilized at this site when limited soil depths are observed but you should expect that 80 to 133 feet of chamber drainline would be required for the initial system per bedroom in the home.

The soils shown as provisionally suitable for low profile chamber systems are limited in soil depth to the extent that low profile chamber type drainlines installed ultra shallow will likely be required. Due to ultra shallow trench depths, the addition of approximately 6 inches of topsoil will be necessary to completely cover the system. You should expect that 115 to 160 feet of low-profile chamber drainlines would be required for the initial system per bedroom in the home.

Preliminary Soil Investigation

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


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Scale 1 in = 50 ft

Map for reference only.
Distances are paced and
approximate. Not a survey.

SOIL MAP



Soil Map Legend

-  Provisionally Suitable Soils
-  Provisionally Suitable Soils for Modified or Alternative Systems
-  Provisionally Suitable for Low Profile Chamber Systems
-  Provisionally Suitable for Drip Systems
-  Unsuitable Soils

