

HAL OWEN & ASSOCIATES, INC.

SOIL & ENVIRONMENTAL SCIENTISTS

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15 March 2024

Justin Tahilramani

Reference: Preliminary Soil Investigation

1712 Hayes Road, Spring Lake, Harnett Co., NC

PIN 0534-18-1770.000

Dear Mr. Tahilramani,

A site investigation has been conducted for the above referenced property, located on the southern and eastern sides of Hayes Road (SR 2047) in Harnett County, North Carolina. The purpose of this investigation was to determine the site's ability to support subsurface sewage waste disposal systems. This report and map are intended for planning purposes only and not for lot recordation.

All sewage disposal ratings and determinations were made in accordance with the Rules for "Wastewater Treatment and Dispersal Systems", 15A NCAC 18E. 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 application for an approved wastewater system shall be made to the Local Health Department that specifies the proposed building 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 topography and landscape position, soil morphology (texture, structure, clay mineralogy, organics), soil wetness, soil depth, and restrictive horizons. Soils units shown on the attached map represent dominant soil types with similar profiles but may include minor components of contrasting soil types.

The soils shown as suitable on the attached map are adequate to support subsurface sewage waste disposal systems. Due to clayey subsoil characteristics, you should expect that 65 to 75 feet of accepted status drainline would be required for the initial system per bedroom in any proposed residence.

The soils shown as suitable for modified 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 six inches of approved soil to completely cover the system. You should expect that approximately 65 feet of accepted status drainline would be required for the initial system per bedroom in any proposed residence.

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

The unsuitable soil area is so rated due to inadequate soil depth to excessive soil wetness conditions and/or unsuitable landscape position. The current regulations will not permit subsurface wastewater systems to be installed in areas rated as unsuitable. A stream with adjacent potential wetlands were observed within the unsuitable area. While it appeared that homes could be sited in the unsuitable area, impacts to the wetlands and stream should be avoided.

Assuming that county water will be utilized for proposed residences, the soils underlying this property appear capable of supporting the septic disposal needs of four residences. The portion of the property on the eastern side of Hayes Road appears capable of supporting the septic disposal needs of a two-bedroom residence. The area of usable soil on the eastern side of the stream also appears capable of supporting the septic needs of a two-bedroom residence. The portion of usable soil to the west of the stream appears capable of supporting the septic disposal needs of two, three-bedroom residences. I appreciate the opportunity to provide this service and trust that you will feel free to call on me again in the future. If you have any questions or need additional information, please contact me at your convenience.



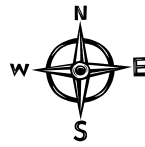
Sincerely,


A handwritten signature in black ink that reads "Britt Wilson".

Britt Wilson
Licensed Soil Scientist







Preliminary Soil Investigation
1712 Hayes Road, Spring Lake, Harnett Co., NC
PIN 0534-18-1770.000
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SOIL MAP



Scale 1 in = 100 ft

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

Soil Map Legend

-  Suitable
-  Suitable for Modified Systems
-  Suitable for Low Profile Systems
-  Unsuitable
-  Potential Wetlands
-  Potential Stream

