

# HAL OWEN & ASSOCIATES, INC.

SOIL & ENVIRONMENTAL SCIENTISTS

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20 December 2022

Charles Deziel

Reference: Preliminary Soil Investigation  
PIN 0518-64-2627.000, 0518-55-0614.000

Dear Mr. Deziel,

A site investigation has been conducted for the above referenced properties, located on the eastern side of Spring Hill Church Road 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.

These properties were observed to be underlain by a mixture of soils that range from suitable to unsuitable for subsurface sewage waste disposal (see attached map). The soils shown as suitable on the attached map, are excellent for residential purposes. These soils will support maximum densities if you so desire. You should expect that 50 to 70 feet of conventional drainline would be required for the initial system per bedroom in the home.

The soils shown as provisionally suitable will adequately function as sewage waste disposal sites but will require additional drainline due to clayey textured subsoil characteristics. You should expect that 80 to 130 feet of conventional drainline would be required for the initial system per bedroom in the home.

Lot densities should be adjusted to allow for adequate drainline in areas dominated by provisionally suitable soil types. It is recommended that lots be designed to contain **at least 25,000 square feet** in areas dominated by provisionally suitable soils and serviced by public or community water supplies. Developing lots with individual wells will necessitate an additional 10,000 square feet at minimum.

The unsuitable area is so rated due to a 50-foot setback from a pond and a powerline easement crossing one of the properties from north to south. The powerline could potentially be relocated to hug Spring Hill Church Road as it appears to be limiting the potential of the southern end of this property.

The soils underlying the two-acre property (PIN 0518-55-0614.000) appear capable of supporting the subsurface sewage waste disposal needs of two, two-bedroom residences; however, this may require moving the powerline as previously stated. It may be possible to carefully locate two small homes without moving the power line but septic system design work would be needed to demonstrate that potential. The soils underlying the ten-acre property (PIN 0518-64-2627.000) appear capable of supporting the subsurface sewage waste disposal needs of five or six, two-bedroom residences along Spring Hill Church Road. The soils towards the back of the property appear to potentially be capable of supporting the subsurface sewage waste disposal needs of four or five, two-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,






Hal Owen  
Licensed Soil Scientist




Preliminary Soil Investigation  
PIN 0518-55-0614.000  
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*Soil Map*

*Soil Map Legend*

	Suitable Soils
	Provisionally Suitable Soils
	Unsuitable Areas

Scale 1 in = 100 ft



*Distances are paced  
and approximate*

