

HAL OWEN & ASSOCIATES, INC.

SOIL & ENVIRONMENTAL SCIENTISTS

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21 June 2022

Mr. Dee Langdon

Reference: Preliminary Soil Investigation

Property located on Old Stage Road N; NC PIN 0692-28-3806.000

Dear Mr. Langdon,

A site investigation has been conducted for a portion of the above referenced property, located off the eastern side of Old Stage Road N (SR 1006), 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.

This portion of the property was observed to be underlain by a mixture of soils that range from provisionally suitable for modified or alternative systems to unsuitable for subsurface sewage waste disposal (see attached map). 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 (white flags). 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 60 to 160 feet of conventional drainline would be required for the initial system per bedroom in the home.

The unsuitable soil area is so rated due to inadequate soil depth to excessive soil wetness conditions and/or unsuitable landscape position. The ability to utilize alternative systems or make modifications to this area to allow for septic systems is minimal. Some of this area will likely support building foundations, and homes could be sited in this area. Utilization of pump type conventional systems will allow unsuitable soils to make up part of the lot area. However, it is necessary that **at least 10,000 square feet** of usable soil be incorporated into the lot in such a way that it will be **completely available** for waste disposal.

It appears that wetland areas were observed on the property and located through the middle of the investigated area. The soils in the northern corner appear adequate to support the septic disposal needs of a two bedroom home. It appears that a wetland or stream impact will be necessary to access the septic area.

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 cursive script that reads "Hal Owen".

Hal Owen
Licensed Soil Scientist

Preliminary Soil Investigation



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Soil Map

Soil Map Legend

	Provisionally Suitable for Modified or Alternative Systems
	Unsuitable Soils

Scale 1 in = 200 ft



Distances are paced and approximate

