

HAL OWEN & ASSOCIATES, INC.

SOIL & ENVIRONMENTAL SCIENTISTS

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21 February 2023

Ms. Hayley Blue

Reference: Preliminary Soil and Wetland Investigation
Tract A Liberty Land Group LLC; Cedar Creek Road, Fayetteville NC

Dear Ms. Blue,

A site investigation has been conducted for the above referenced property, located on the western side of Cedar Creek Road (NC-53) in Cumberland County, North Carolina. The purpose of this investigation was to determine the site's ability to support subsurface sewage waste disposal systems; and to determine the existence, extent, and location of areas that meet the criteria for wetlands and surface waters on the property.

All sewage disposal rating 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 this lot by the local Health Department. An improvement permit will need to be obtained from the Health Department that specifies the proposed home size and location, and the design and location of each septic system to be installed.

All wetland determinations were made in accordance with the 1987 US Army Corps of Engineers Wetland Delineation Manual and subsequent regional supplements. All stream determinations were made in accordance with the NC Division of Water Resources *Methodology for Identification of Intermittent and Perennial Streams and their Origins, Version 4.11*. This report represents my professional opinion but does not represent concurrence by the US Army Corps of Engineers (USACE) or the NC Division of Water Resources (NCDWR).

PRELIMINARY SOIL INVESTIGATION

This property was observed to be underlain by a mixture of soils that range from suitable to unsuitable for subsurface sewage waste disposal (see attached map). Soils rated as suitable are excellent for septic systems and are characterized as deep, well drained, loose and sandy textured. You should expect that 50 to 70 feet of conventional drainline will be required 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.

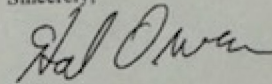
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PRELIMINARY WETLANDS INVESTIGATION

No wetland areas nor streams were observed on the property. The site investigation was accomplished by direct examination of the physical attributes of the site and soil auger borings taken at various points across the site. Wetland determinations were based on the three-parameter approach involving indicators of hydrophytic vegetation, hydric soils, and wetland hydrology. Under normal circumstances, positive indicators of each of these parameters must be present for an area to satisfy the criteria for wetlands. Areas that meet these criteria were not observed.

The soils underlying this property appear to be capable of supporting the subsurface sewage waste disposal needs of a four-bedroom residence. 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

