



## Fred D. Smith Soil Scientist

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November 18, 2021

Ben Legg  
BHL GROUP  
977 Seminole Trail # 292  
Charlottesville, VA 22901

Subject: Preliminary Soil Suitability  
Parcel # 011568  
Raymond Tharrington Rd  
Louisburg, NC

Dear Mr. Legg,

This letter presents a preliminary soil evaluation for conventional septic systems. You requested that I provide these soil science services to help with your decisions to purchase the lot and to provide you with soil and septic suitability information.

You provided me with the parcel outlined on an aerial photograph.

### Soil Evaluation

The site and soil were evaluated to observe soil properties, surface features, landscapes, and site parameters. Hand auger borings were used to evaluate soil characteristics in accordance with 15A NCAC 18A 1900 (Laws and Rules for Sewage Treatment and Disposal Systems).

The USDA Soil Survey Mapping for Franklin County, NC was used to provide soil information and I field checked the soil mapping as described above. The county GIS mapping is attached.

The soils mapped on the property that will have suitable soil properties for conventional septic designs include Helena (HeB) and Appling (ApB).

Helena soils *may* have shallow seasonal high-water tables that are shallower than 24 inches below the surface. But it *may* also have seasonal high-water tables that are deeper than 24 inches.

If the seasonal high-water tables are less than 24 inches, then they cannot be used for conventional septic systems. However, if the soils have seasonal wetness below 24 inches, then a conventional septic system can be designed with trench depths of 12 to 15 inches. This shallow trench depth will require a 6-inch cover be placed over the entire drainfield. This cover soil can be from any source and any soil texture. Normally it is a 'topsoil' source.

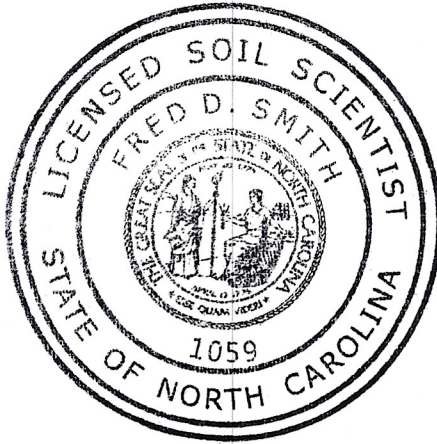
The Appling soils (ApB) found on the site have suitable properties for shallow conventional septic systems. Depending on the house location, a pump to conventional trenches may be required.

In my opinion, suitable soils for conventional septic systems are present in sufficient area for at grade trench designs or shallow conventional septic designs that may require a pump depending on the elevation of the house location and the elevation of the drainfield.

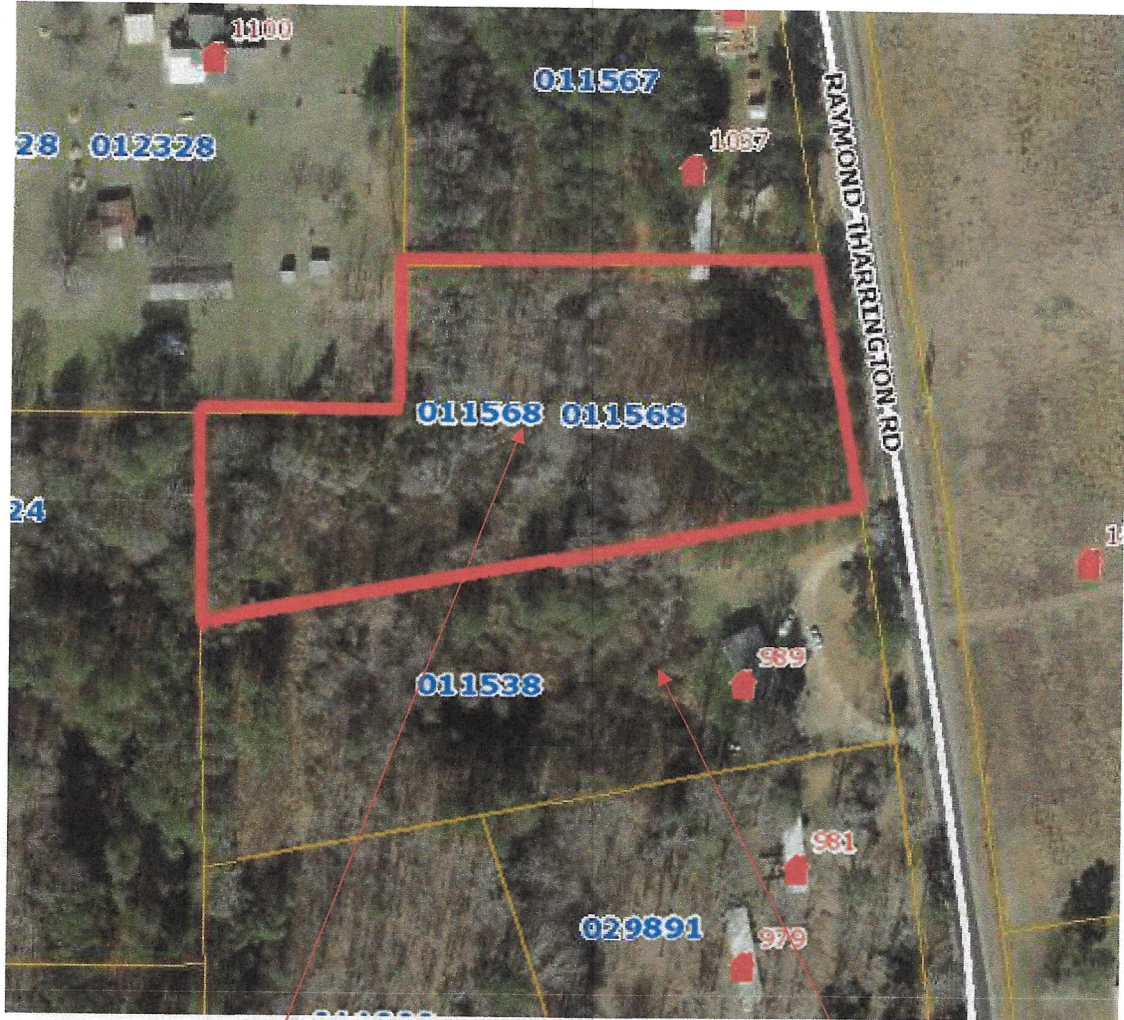
I appreciate the opportunity to work with you on this project. Please contact me with questions or additional information after you have reviewed the information here.

Sincerely,

*Fred D. Smith*  
Fred D. Smith, LSS







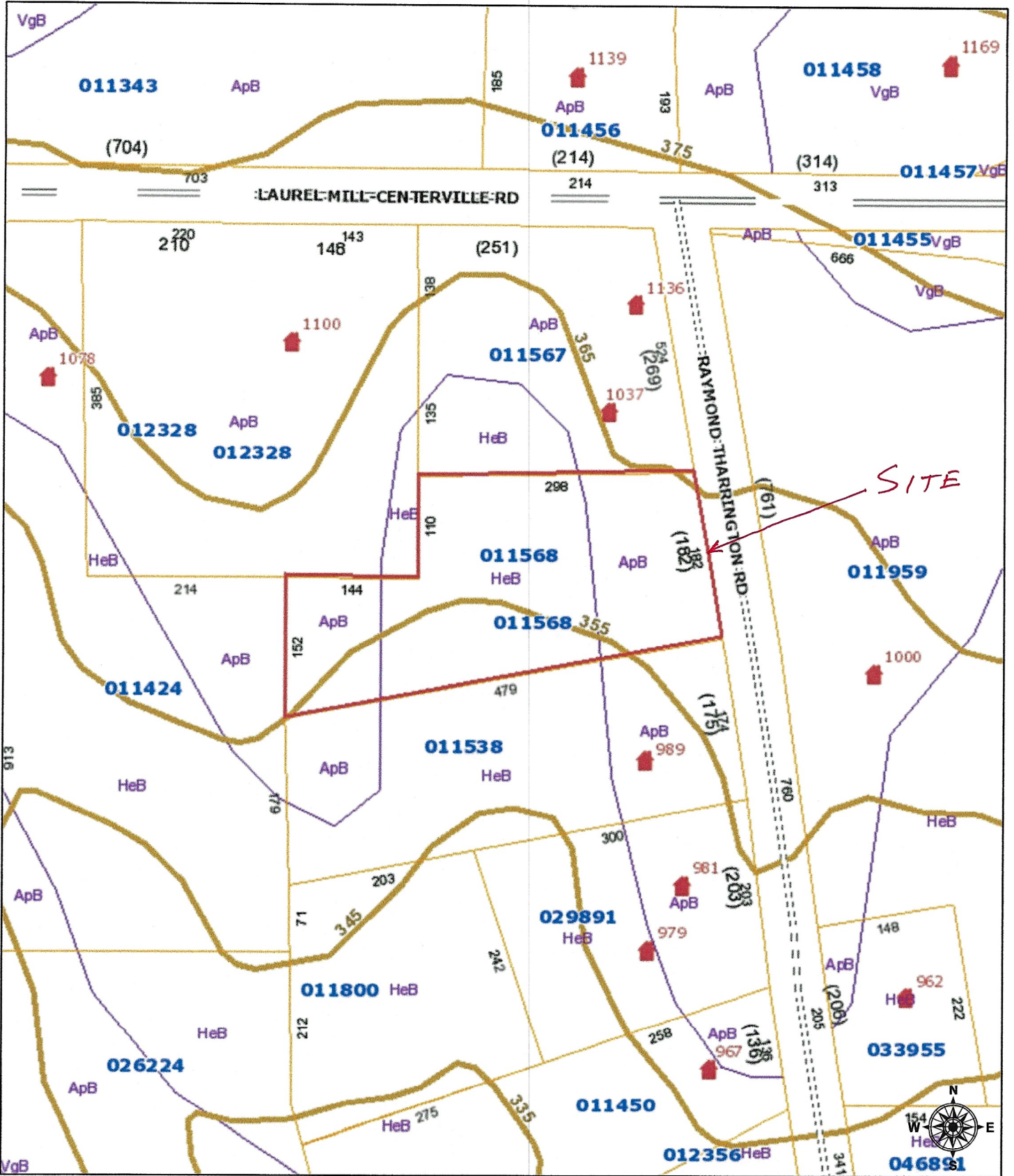
**Property For Sale:**  
**Tax Map #: 011568**  
**1.93 Acres**

\*\*\*Approximations based on available  
public records\*\*\*

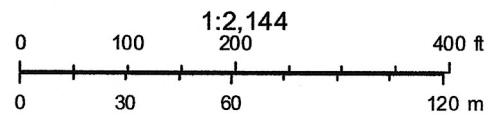
**Nearest Address:**  
989 Raymond Tharrington Rd  
Louisburg, NC 27549



# GoMaps



November 19, 2021



Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand).