

**HAL OWEN & ASSOCIATES, INC.****SOIL & ENVIRONMENTAL SCIENTISTS**

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18 November, 2003

Mr. Micah Acord  
830 Calvary Church Road  
Sanford, NC 27332

Reference: Preliminary Soil Investigation  
Lots 15-A (0.714 Acre), 15-B (0.705 Acre), and 15-C (0.781 Acre)

Dear Mr. Acord,

A preliminary soil investigation has been conducted at the above referenced property, located on the northern side of Calvary Church Road (SR 1203) and the western side of the Seaboard Coastline Railway (Abandoned), Johnsonville Township, Harnett County, North Carolina. The purpose of the investigation was to determine the existence of a subsurface sewage waste disposal system on Lot 15-A and to make surface observations relative to its apparent operation. The purpose was also to determine the ability of Lots 15-B and 15-C to each support a subsurface sewage waste disposal system and repair area for a typical three-bedroom home. All ratings and determinations were made in accordance with "Laws and Rules for Sanitary Sewage Collection, Treatment and Disposal, 15A NCAC 18A .1900." It is our understanding that individual septic systems and public water supplies will be utilized at this site.

Lot 15-A has an existing residence with an existing septic system that appeared to be functioning properly on the day of the investigation. This existing septic system appeared to be located within any setback requirements for this property. A soil investigation was conducted and it appears that an adequate amount of suitable soil exists on this lot to 100 % repair the system if it should fail.

Portions of Lots 15-B and 15-C are underlain by a mixture of usable soils ranging from suitable to provisionally suitable for subsurface sewage waste disposal. The suitable soils along the front of Lot 15-B are deep well drained loamy sands and appear adequate to support long term acceptance rates of 0.8 gal/day/sqft. Provisionally suitable soils were observed at the front of Lot 15-C with usable soil depths greater than thirty inches below surface. The subsoils are friable sandy clay loams and appear adequate to support long term acceptance rates of 0.4 to 0.5 gal/day/sqft. Provisionally suitable soils for modified or alternative systems were observed at the rear of Lots 15-B and 15-C. Firm sandy clay subsoils with usable soil depths ranging from 24 to 30 inches to soil wetness conditions were noted. These soils appear adequate to support long term acceptance rates of 0.3 gal/day/sqft for ultra shallow drainlines. It appears that the soils on each of these lots are adequate to support a septic system and repair area for one residence.

HAL OWEN & ASSOCIATES, INC.

This soil investigation report and map, when provided to the Harnett County Health Department, should allow them to sign the maps for recordation. I appreciate the opportunity to provide this service and hope to be allowed to assist you 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



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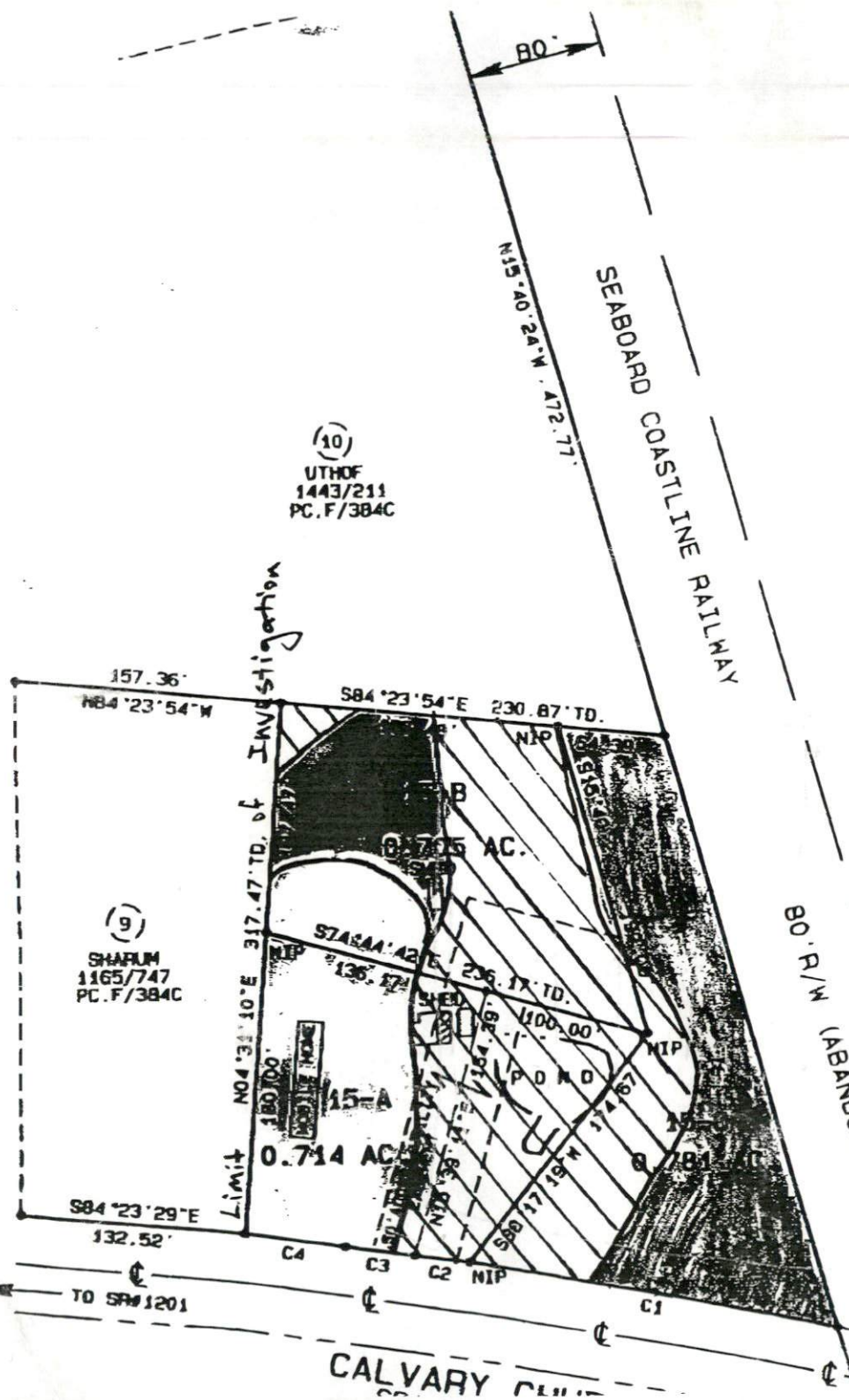
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NOTE!  
CURRENT OWNER AGREES TO  
REMOVE SHEDS IN 50' ACCESS/  
UTILITY EASEMENT IF AND  
WHEN NECESSARY.

-  Suitable Soils
-  Provisionally Suitable Soils
-  Unsuitable Soils

