HAL OWEN & ASSOCIATES, INC.

SOIL & ENVIRONMENTAL SCIENTISTS

P.O. Box 400, 266 Old Coats Road

Lillington, NC 27546-0400

Phone (910) 893-8743 / Fax (910) 893-3594

E-mail: halowen@earthlink.net

21 November, 2005

Mr. Jack Newsome
8125 Robincrest Court
Fuquay-Varina, NC 27526

Reference: Preliminary Soil Investigation
JRS Enterprises Property (Lots 1-3)

Dear Mr. Newsome,

A site investigation has been conducted for the above referenced properties, located on the eastern side of Hardee Road (SR 1425), Hector's Creek Township, Harnett County, North Carolina. The purpose of this investigation was to determine each lot's ability to support a subsurface sewage waste disposal system and repair area for a typical three-bedroom home. 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.

This property is composed of a mixture of soils that range from provisionally suitable to unsuitable for subsurface sewage waste disposal (see attached map). 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 300 - 400 feet of conventional drainline would be required for the initial system of a three-bedroom home.

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. These more marginal soils were typically observed on the rear half of the property. 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 400 - 500 feet of conventional drainline would be required for the initial system of a three-bedroom home.

Lot 1 is composed of provisionally suitable soils. However, located within this lot was evidence of old buildings and an old home site. An old existing septic tank was observed that is likely not to today's standard or size and will likely need to be abandoned. The drainfield was not located but will need to be avoided when a new system is installed. The drainfield is likely small and to the right side of the lot. The easement road to access the rear lots on the right side of the property should make the existing drainfield of little significance.

The greater quantity of soil observed in Lot 2 was rated as provisionally suitable. It is believed that with proper house placement there is enough provisionally suitable soil area for the installation of the initial system within this soil unit. Two areas of provisionally suitable soils for modified or alternative systems were seen in the northern and eastern corners of Lot 2.

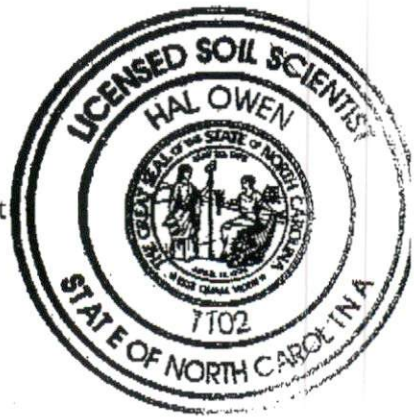
A small area of provisionally suitable soil was located along the property line between Lot 2 and Lot 3. The majority of soils observed were provisionally suitable for modified or alternative systems. However, due to the small area of provisionally suitable soil and the complexity of the landscape, both initial and repair systems will likely need to be installed ultra shallow and at least a 6 inch soil capping used. The disturbed area that appears to be an old roadway that crosses the rear of the property was examined and the soils determined to be compacted. The existence of this old roadbed creates complex topography at the rear of the lot. In order to capture as much provisionally suitable soil as possible and thus reduce system design complexities, the home will need to be located on the old roadbed and a pump utilized to move the sewage effluent from the home to the drain field located uphill and further toward the front of the property.

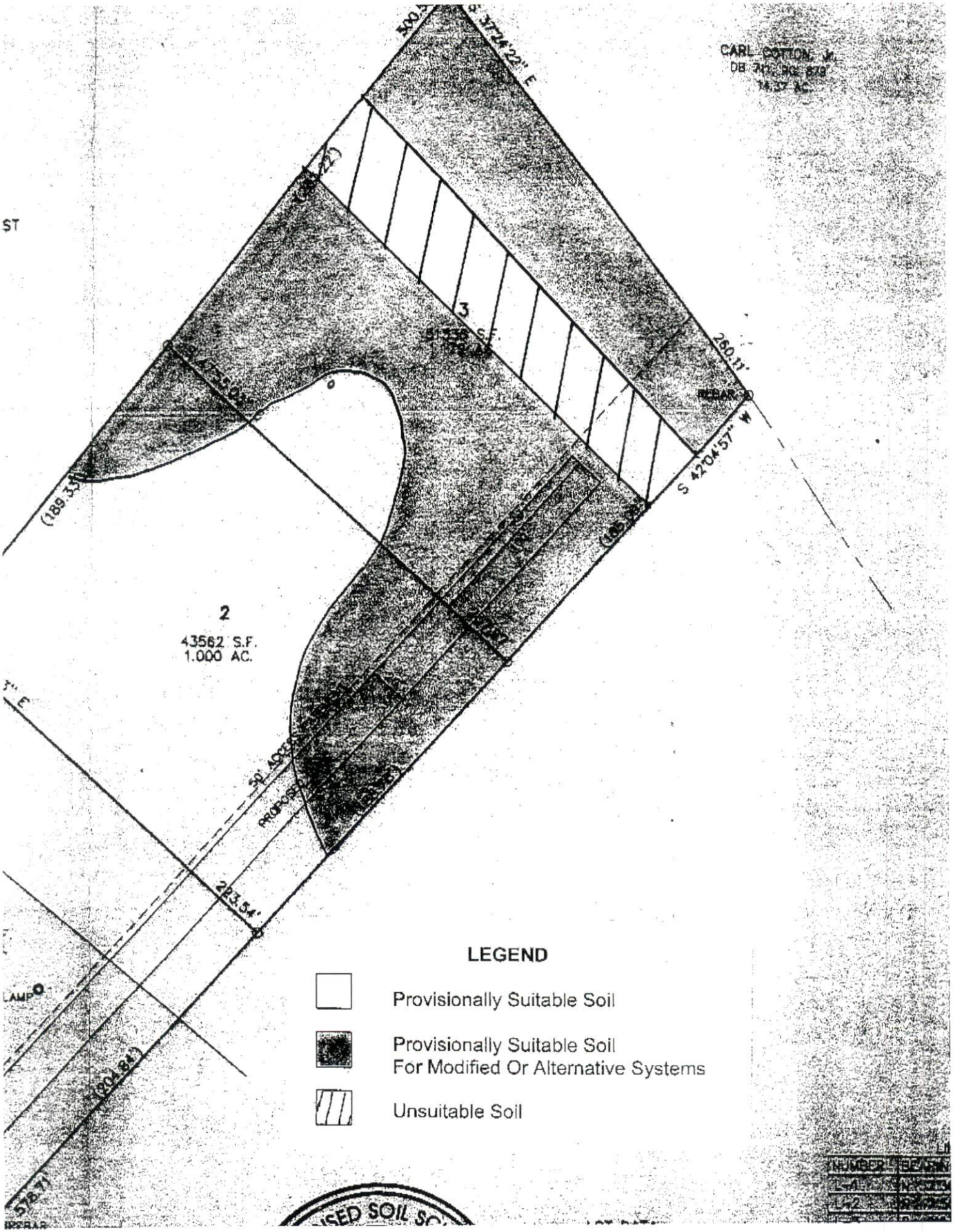
Each of these three lots appears adequate to support a septic system and repair area for one residence. I appreciate the opportunity to provide this service and trust that you will feel free to call on me again in the future. If you have any questions or need additional information, please contact me at your convenience.

Sincerely,

Hal Owen

Hal Owen
Licensed Soil Scientist





HARNETT COUNTY, NORTH CAROLINA GIS/LAND RECORDS

- bnd_ln
- cfriv
- Centerline
- Parcels
- Major Roads
- Color orthos

Harnett County GIS
305 W Cornelius Harnett Blvd, Suite 100
Lillington, NC 27546
Phone: 910-893-7523 WWW.HARNETT.ORG

Harnett COUNTY
strong roots • new growth