



Central Carolina Soil Consulting, PLLC

6325-9 Falls of Neuse Rd., PMB#341

Raleigh, NC 27615-6809

919-784-9449

February 1, 2006

Job # 175

Standout Properties
Attention: Dan Sullivan
8502-201 Six Forks Road
Raleigh, NC 27615

RE: Detailed soil/site evaluation on 97-acres adjacent to Highway 64 and Windfall Subdivision in Chatham County.

Dear Mr. Sullivan:

Central Carolina Soil Consulting, PLLC conducted a detailed soil evaluation on the parcel listed above to determine the areas of soils that are suitable for subsurface wastewater disposal systems. The soil/site evaluation was performed using hand auger borings during moist soils conditions based on the criteria found in the State Subsurface Rules, 15ANCAC 18A .1900 "Laws and Rules for Sewage Treatment and Disposal Systems". From this evaluation, CCSC flagged the boundary between the suitable soils and unsuitable soils, then located them utilizing GPS technology.

The above referenced parcel is located west of Jordan Lake and east of Pittsboro. This area lies in the Carolina Slate Belt geologic unit, where soils have formed from residual parent material such as volcanic argillites. The soils that have formed on this parcel are similar to the Georgeville, Herndon, Badin, Lignum and Cid soil series. The attached soils map indicates the areas of suitable vs. unsuitable soils. The Georgeville and Herndon soil series are generally suitable for subsurface wastewater systems. That is, the morphology of the soils contain suitable characteristics that would support subsurface septic systems such as clayey textured subsoils that are not considered expansive, blocky structure and no indicators of restrictive characteristics within 24 inches of the soil surface. The Badin, Lignum and Cid soil series have a combination of expansive clays and/or a perched water table within 24 inches of the soil surface.

The attached soils map indicates the areas of soils which are suitable for subsurface wastewater systems. The "hatched soil units" on the attached map indicates the areas of soils that have 24 to 30+ inches of suitable soil material. These areas have potential for conventional, modified conventional, LPP or ultra-shallow conventional septic systems. Due to variable soil characteristics, there may be small inclusions of unsuitable soils in the areas mapped as suitable. The "cross hatched soil unit" indicates areas of soils that will need to be evaluated with backhoe pits to determine suitability for subsurface wastewater systems due to dense amounts of rock in the soil profile. Unit "UN" on the attached map indicates areas of unsuitable soils that contain restrictive soil characteristics less than 24 inches.