

# Southeastern Soil & Environmental Associates, Inc.

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September 20, 2023

Harnett County Health Department  
307 Cornelius Harnett Blvd.  
Lillington, N.C. 27546

Re: Soil evaluations and final septic recommendations, Lots 1 – 5, BPR Real Estate Subdivision, Erwin Chapel Rd., Harnett County, North Carolina

To whom it may concern,

A final soils investigation has been completed for each of the above referenced lots. The property is located on Erwin Chapel Rd. as shown on the accompanying map. The purpose of the investigation was to determine the ability of the soil to support any subsurface waste disposal system for each proposed lot. All ratings and determinations were made in accordance with "Laws and Rules for Sanitary Sewage Collection, Treatment, and Disposal, 15A NCAC 18A .1900".

Each lot appears to contain at least one area that meets minimum criteria for subsurface waste disposal systems for at least a typical (50' x 70') 4 bedroom home (may include the use of conventional drainlines, gravelless drainlines, low pressure pipe, pumps, low profile chamber, fill, large diameter pipe, French Drains, pretreatment, drip irrigation, etc.). Soil characteristics in the usable areas were dominantly provisionally suitable to at least 18 inches (fill, drip irrigation and/or pretreatment), 20 inches (low profile chamber) or 24 inches (conventional or LPP) including those specified in rules .1940, .1941, .1942, .1943, .1944 and .1945. A soil map indicating typical soil areas that meet these criteria is enclosed. Each of the lots appears to contain sufficient available space for a repair area for at least a typical 4-bedroom home (may include the use of any of the systems mentioned above).

**Any or all lots may require specific design/layout on our part prior to action by the local health department due to space and soil considerations (at separate cost to client). Alternative systems (mentioned above) could be required on any lot to compensate for shallow unsuitable soil conditions. Specific house locations, house sizes, driveway locations and/or side entry garages may be required on any individual lot. There should be no grading, logging or other site disturbance in soil areas designated as usable for subsurface waste disposal until approved by the local health department (any site disturbance could remove soil and render the area unusable).**

**When evaluated, the soil areas designated as usable for subsurface waste disposal were dry to at least 24 inches. During wetter time periods, subsurface water could be found in any of these soil areas at shallower depths. The local health department has the authority to deny a permit to any soil where water saturates a soil boring. SSEA cannot be certain that this will not occur on any of these lots. If this occurs (and cannot be remedied with a French drain or other drainage), any of these lots could become unsuitable due to .1942 (soil wetness).**

This report does not guarantee or warrant that a septic system will function for any specific length of time.

As with any property, this report does not guarantee, represent or imply approval or issuance of improvement permit as needed by the client from the local health department (as such, any potential buyers of these properties should obtain appropriate permits from the local health department prior to making and/or completing purchase obligations or financial commitments. Since professional opinions sometimes differ, an actual improvement permit issuance by the local health department is the only "guarantee" of a site's suitability for a buyers intended use.). This report only addresses rules in force at the time of evaluation. Permits will only be granted if the local health department concurs with the findings of this report. This report only represents my professional opinion as a licensed soil scientist. I trust this is the information you require at this time. If you have any questions, please call.

Sincerely,



Mike Eaker  
NC Licensed Soil Scientist

