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Mrs. Julie Wright  
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Julie:

Attached with this report is a sketch map showing the locations of septic drain field sites on the proposed subdivision of the Milani properties located on the east side of Beasley Road about one mile south of the intersection with NC 39 near Ingleside in Franklin County. This map was prepared using property information and aerial photography obtained from the Franklin County Tax Department and GIS web site. The USDA soil survey maps of the area were also consulted as to the general nature of the soils, landforms and streams.

The soils areas as shown were estimated from hand auger borings made at selected locations and by field observations of soil related landforms, vegetation and surface rock outcrops. The locations of the individual oil borings as well as selected cultural features were estimated using a Trimble mapping grade GPS receiver. This map can be used for preliminary planning purposes for the locations of dwellings and septic drain field areas. Additional soils investigations and consultations will be needed before any permits for sewage disposal can be finalized.

## SOIL SUITABILITY

The suitability classification of the soils area as shown based on North Carolina On-site Sewage Disposal regulations (15A NCAC 18A .1900) are as follows:

**SOILS AREA 2:** These soils will classify provisionally suitable to unsuitable for conventional septic drain fields. These soils typically have dark brown and light yellowish brown sandy loam surface layers 8 to 10 inches thick overlying yellowish brown to yellowish red friable to slightly firm clay subsoils that exhibit soil structure and are free of seasonal wetness indicators within the upper 24 to more than 36 inches of the soil profiles. These soils have potential for conventional septic system drain fields. The unsuitable soils can be re-classified to provisionally suitable by using modifications for conventional drain fields as Prescribed in the regulations. These modifications may include the shallow placement of drain field trenches, the possible installation of approved fill capping over the drain field site as well as the use of saporlite systems . The sewage loading rates are estimated to range from 0.25 to 0.35 gal./sq. ft. of trench bottom for conventional or modified conventional drain fields.

**Remaining Areas:** The soils in the remaining areas will classify provisionally suitable to unsuitable for septic drain fields. The provisionally suitable soils will most likely be located on the gently sloping landscapes that do not show rock outcrops. The unsuitable soils mainly occur on the strongly to steeply

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sloping area and in other areas where rock outcrops commonly occur. Additional detailed investigations will be needed to verify the suitability of specific areas.

#### SUMMARY

Each of the tracts identified on the sketch map has significant areas (+15,000 sq.ft.) that can be used for conventional or modified septic drain fields. These areas are sufficient to accommodate four bedroom dwellings or larger on each of the tracts identified. Follow-up investigations and field layouts of drain field systems will be required before any permits can be finalized.

Please call me if there are any questions regarding these investigations. Have the surveyor contact me if any significant changes to the subdivision layout are required. In any case I would like to have a digital file (dwg saved to 2004) for the boundary survey when it is available.

Sincerely

  
Daniel J. Bliley  
Licensed Soil Scientist





