SUMMARY

This site is UNSUITABLE for a ground absorption wastewater treatment and disposal system under current laws and rules 15A NCAC 18A .1900. No ground absorption wastewater (septic tank) system can be permitted on this site.

This report gives a brief summary of the findings, conclusions, and recommendations.

If you have any questions or I can be of assistance, contact me at (704) 397-5152.

INTRODUCTION

COUNTY: Mecklenburg

OWNER/APPLICANT : Gwendolyn Hall

LOCATION: Asbury Chapel Rd.

TYPE OF FACILITY: Residence

DESIGN UNIT: 360 gpd

PROPOSED WATER SUPPLY: On-site well

EVALUATED BY: Joe Lynn assisted by Bill Marlin using auger borings

DATE OF EVALUATION: January 2, 1997

OTHERS PRESENT: N/A

SITE INFORMATION

AREA/PRESENT USE: About 34,500 sq. ft. / mostly wooded

TOPOGRAPHY: 5 to 22 percent slope

LANDSCAPE POSITION: Linear, nose, and foot slopes

SITE LIMITATIONS: Depressions, gully, and stream

SOIL INFORMATION

SOIL TEXTURE: (surface) Sandy loam
(subsurface) Sandy clay

SOIL STRUCTURE: Blocky

CLAY MINERALOGY: 14 to 22 inches to expansive clay mineralogy

SOIL DEPTH: 18 to 27 inches to saprolite, rock, or parent material

SAPROLITE: 18 to 27 inches to unsuitable saprolite

SOIL WETNESS: 15 to 22 inches to chromas of two or less Munsell Color Book

RESTRICTIVE HORIZONS: None

AREA OF SUITABLE or PROVISIONALLY SUITABLE SOIL: None

CONCLUSIONS

This site is Unsuitable for the installation of a conventional ground absorption wastewater system (septic tank) due to:

1. Unsuitable Topography and Landscape Position — Section .1940
   Drainage features (gullies)
2. Unsuitable Soil Characteristics — Section .1941
   Expansive mineralogy
3. Unsuitable Soil Wetness Conditions — Section .1942
   Chromas of 2 or less
4. Insufficient Soil Depth — Section .1943
   Soil Depths to less than 36 inches
3. Insufficient Available Space — Section .1945
   Not enough area for an initial wastewater system and a repair if needed.

The site is Unsuitable under Rule .1956 Modifications to Septic Tank Systems:

1. Shallow conventional systems — NO
2. Large Diameter Pipe systems — NO
3. Prefabricated Porous Block Panel systems — NO
4. Drainage will not be sufficient to reclassify the site to provisionally suitable.
5. The saprolite is unsuitable by this rule, too much clay content.

The site is Unsuitable under Rule .1957 Alternative Sewage Systems:

1. Low Pressure Pipe systems — NO
2. Fill systems — NO
3. Aerobic Treatment systems — NO

The site is Unsuitable under Rule .1969 Experimental and Innovative Systems, Components, or Devices:

1. Chamber systems	NO
2. Houck Drainage systems	NO
3. Perc-Rite Subsurface Drip system	NO
4. Sand Filter Pretreatment systems	NO

RECOMMENDATIONS

The owner has the following options that might allow the use of this property as desired:

1. The applicant may purchase other Suitable or Provisionally Suitable property to place the ground absorption wastewater system on.
2. The applicant may obtain an easement on a Suitable or Provisionally Suitable property to place the ground absorption wastewater system on.
3. The Division of Water Quality in Mooresville, N. C. at (704) 663-1699 may be contacted to pursue options available through that office. The applicant should contact someone with a knowledge of discharge systems to evaluate the site before contacting this office.
4. A wastewater system can be pursued under Rule 1948 (d). Written documentation must be submitted to your office showing that the proposed wastewater system can be expected to function properly. The data must contain the following:
   A. The effluent must be non-pathogenic, non-infectious, non-toxic, and non-hazardous.
   B. The ground water and the surface water must not be contaminated by the effluent.
   C. The effluent must not be exposed to the ground surface or discharged to surface waters where it could come into contact with people, animals, or vectors.