



# North Carolina Department of Natural Resources & Community Development

James B. Hunt, Jr., Governor.

Joseph W. Grimsley, Secretary

DIVISION OF  
LAND RESOURCES

Stephen G. Conrad, Director

Telephone 919 733-3833

Dear Mr. Johnson :

The North Carolina Geological Survey Section, Department of Natural Resources and Community Development is drilling a number of shallow auger holes in order to gather information about geologic structure and rock type. This information will be used to construct a new State Geologic Map. One or more desirable sites for auger holes are located either within the highway easement across your property or on your property as indicated on the attached sketch map.

Geological Survey personnel would be drilling 6-inch diameter auger holes not more than 105 feet deep with a truck mounted auger rig and accompanying service truck. In some instances geophysical equipment would be lowered down the hole to gather part of the necessary information. When finished all equipment, material, and structures will be removed, cuttings scattered, and the holes permanently plugged in accordance with state regulations. All work will take from less than one day to not more than one or two days, depending on how many holes we are requesting to drill on your right-of-way or your property.

Please indicate your permission for us to do this work by signing and returning this letter to us.

Respectfully,

Patricia E. Gallagher  
Driller-in-Charge

CL Johnson (Verbal permission)  
Land Owner (or)  
Person in charge of the land

5-16-84  
Date

June 27, 1984

C. L. Johnston  
Rt. 2, Box 44B  
Whitakers, NC 27891

Dear Mr. Johnston:

Enclosed is the geophysical log and sample descriptions for the auger hole we drilled on your property. If you have any questions please call me at (919) 733-9246.

Thank you for your cooperation during our drilling program.

Sincerely,

Patricia E. Gallagher  
Area Geologist

PEG/jac

Enclosure

SAMPLE DESCRIPTION

Well # NA-A-3-84 TD 55' Examined by: RCG Date 5/23/84

p.      of     

Key: A - Abundant C - Common M - Minor T - Trace R - Rare X - Major Constituent

sample  
calibrations:  
0-12'  
15 pl.  
20'  
30'  
35'  
but  
sample

Interval	Rock Type	Color	Texture			Quartz	Feldspar	Glauconite	Phosphate	Calcite	Shell Fragm	Mica	Pyrite	Lignite	Chalcedony	Amethyst	Rose Quartz	Tourmaline	Siderite	Limestone	Dolomite	Fossils	Fe-Stain	Remarks
			Grain Size	Grain Shape	Sorting																			
12'	Sst		cs-grv	ang	mod	X	M																	fine gravel; some large angular frags
12'	Sst	Flight sample	cs-grv	ang	poor	X	C																	quartz gravel wash w/ feldspar, tr heavy mineral
15'	Sst	Flight sample	grv	ang	poor	X	M			TT														quartz gravel wash, more grv than @ 12'
20'	Shly Sst	Flight sample	cs ad to fine grv	ang	poor	X	M			A														some red grt pbls, mx grt frags
30'	Shly Sst	Flight sample	cs	ang	poor					X														
35'	shly Shl Wash	Flight sample	cs	shly	poor					X														
55'	shly Sst	Flight sample	fine	shly	med-poor	X				A														abundance of black platy, vitreous mineral - phosphate?

Unwashed samples

0-12 Cream colored sand; cse gr, ang, poorly sorted gtz; abundant gravel, common feldspar, ~~in~~ granite frags, heavy minerals

YKT?

12-28 - Green gray sandy clay, cse gr, ang, poorly srt gtz; abundant gravel, min fsp, tr mica, shl frags

28-37 - Greenish-gray sandy clayey shell hash;

37-55 - Greenish-gray sandy shelly clay; fine-grained, subangular, moderately well sorted gtz; abundant shell frags, phosphate (black platy vitreous mineral w/ organic structures)