



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 M^cEntyre :

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.

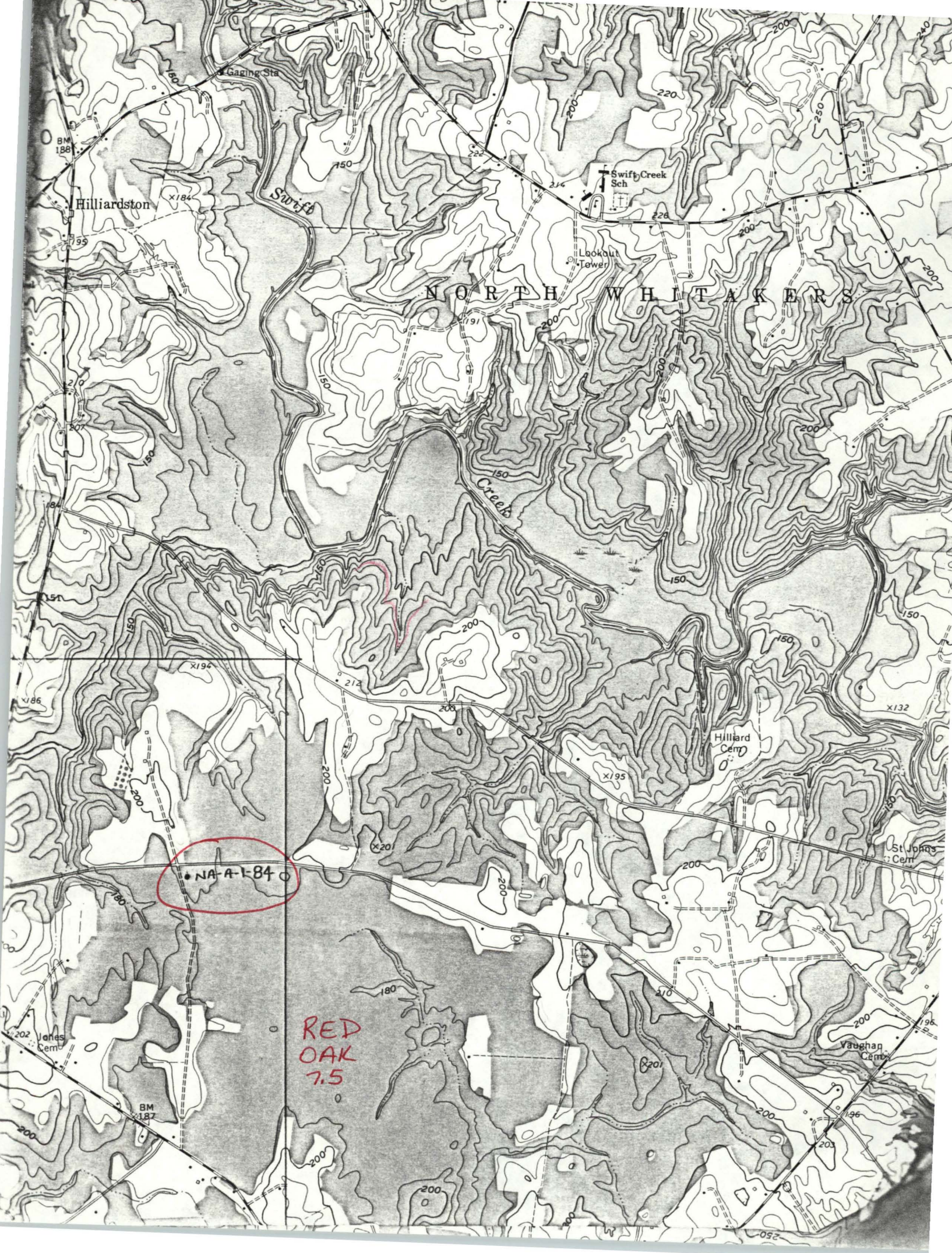
Please indicate your permission for us to do this work by signing and returning this letter to us.

Respectfully,

Patricia Gallagher
Driller-in-Charge

R. M. McEntyre
Land Owner (or)
Person in charge of the land

May 15, 1984
Date



NORTH WHITAKERS

• NA-A-184 ○

RED
OAK
7.5

Hilliardstone

Swift Creek Sch

Lookout Tower

Hilliard Cem

St Johns Cem

Vaughan Cem

BM 188

BM 187

SAMPLE DESCRIPTION

Well # NA-A-1-84 TD _____ Examined by: PEG Date 5/22/84

p. _____ of _____

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

Interval	Rock Type	Color	Texture			Quartz	Feldspar	Glauconite	Phosphate	Calcite	Shell Frags	Mica	Pyrite	Lignite	Chalcedony	Amethyst	Rose Quartz	Tourmaline	Siderite	Limestone	Dolomite	M. Fossils	Re-Stain	Remarks	
			Grain Size	Grain Shape	Sorting																				
0-5'	~5' clay sst	dull grey sample	CS	ang	poor	X																		M Tr heavy minerals	
5'-12' samples	~17' clay sst		fine grv	ang	mod	X																		R	
	~23' clay sst		fr med grv	ang	mod	X																			afew grains water polished; some gtz 1 grz pbl
12'-20'	~26' clay sst		fr med grv	ang	well	X																			cs-grv, worn & at frags? (common) 1 large gtz pebble
	~28' clay sst		fr med grv	ang	poor	X					T														ironstone frags; some frags more shaly - shaly
20'-32' samples	37' sdy clay	Fluorite samples	CS	ang	poor	X																			abundant xln frags - ^{major} calc gtz, gran pbls
	39' sdy clay		CS	ang	poor	X					T														xln gravel, some tr rdid gtz pbls
32'-45'	42' sdy clay		CS	ang	poor	X																			xln gravel
	45' sdy clay		CS grv	ang	poor	X																			xln gravel; ang xln pbls; 1 redd. gtz pbl

0-20' Tan clayey sandstone; cse-gr, any, mod wl sst gtz; abd gtz gw, con xln rk frags, Fe-stone frags, tr gtz pbls

20+ Olive-gray sandy clay; cse-gr, any, poorly sst gtz; abd xln rk gw, tr pyr, gtz pbls.