

**SOIL/SITE EVALUATION
 for ON-SITE WASTEWATER SYSTEM**

Owner: Applicant:
 Address: Date Evaluated:
 Proposed Facility: 965701515 Design Flow (.1949): 460 Property Size:
 Location of Site: Property Recorded: Spring Other
 Water Supply: Public Individual Well Mixed
 Evaluation Method: Auger Boring Pit Cut
 Type of Wastewater: Sewage Industrial Process

P R O F I L E #	.1940 Landscape Position/ Slope %	Horizon Depth (In.)	SOIL MORPHOLOGY .1941		OTHER PROFILE FACTORS				Profile Class & LTAR
			.1941 Structure/ Texture	.1941 Consistence Mineralogy	.1942 Soil Wetness/ Color	.1943 Soil Depth (IN.)	.1956 Sapro Class	.1944 Restr Horiz	
1	<u>LS</u> <u>0-2</u>	<u>0-28</u>	<u>G LS</u>	<u>VFLNS/MP</u>					
		<u>28-48</u>	<u>SBK SCL</u>	<u>FR NS/MP</u>					<u>P3</u> <u>.5</u>
2		<u>0-33</u>	<u>G LS</u>	<u>VFRNS/MP</u>					
		<u>33-48</u>	<u>SBK CL1</u>	<u>FR SS/MP</u>					<u>P3</u> <u>.45</u>
3		<u>0-20</u>	<u>FILL</u>						
		<u>20-33</u>	<u>G LS</u>	<u>VFRNS/MP</u>					
		<u>33-48</u>	<u>SBK CL</u>	<u>FR SS/MP</u>					<u>P3</u> <u>.45</u>
4		<u>0-33</u>	<u>G LS</u>	<u>VFRNS/MP</u>					
		<u>33-48</u>	<u>SBK CL</u>	<u>FR NS/MP</u>					<u>P3</u> <u>.5</u>

Description	Initial System	Repair System	Other Factors (.1946): Site Classification (.1948): <u>el</u> Evaluated By: <u>GS</u> Others Present: <u>-</u>
Available Space (.1945)	<u>✓</u>	<u>✓</u>	
System Type(s)	<u>PVMP 25' x 25'</u>	<u>25' x 25'</u>	
Site LTAR	<u>.45</u>	<u>.45</u>	

COMMENTS: _____

LANDSCAPE POSITIONS

- R-RIDGE
- S-SHOULDER SLOPE
- L-LINEAR SLOPE
- FS-FOOT SLOPE
- N-NOSE SLOPE
- H-HEAD SLOPE
- CC-CONCLAVE SLOPE
- CV-CONVEX SLOPE
- T-TERRACE
- FP-FLOOD PLAN

GROUP

TEXTURES

.1955 LTAR

CONSISTENCE MOIST

WET

- I S-SAND
LS-LOAMY SAND
- II SL-SANDY LOAM
L-LOAM
- III SI-SILT
SIL-SILT LOAM
CL-CLAY LOAM
SCL-SANDY CLAY LOAM
- IV SIC-SILTY CLAY
C-CLAY
SC-SANDY CLAY

1.2 - 0.8

0.8 - 0.6

0.6 - 0.3

0.4 - 0.1

- VFR-VERY FRIABLE
- FR-FRIABLE
- FI-FIRM
- VFI-VERY FIRM
- EFI-EXTREMELY FIRM

- NS-NON-STICKY
- SS-SLIGHTLY STICKY
- S-STICKY
- VS-VERY STICKY
- NP-NON-PLASTIC
- SP-SLIGHTLY STICKY
- P-PLASTIC
- VP-VERY PLASTIC

STRUCTURE

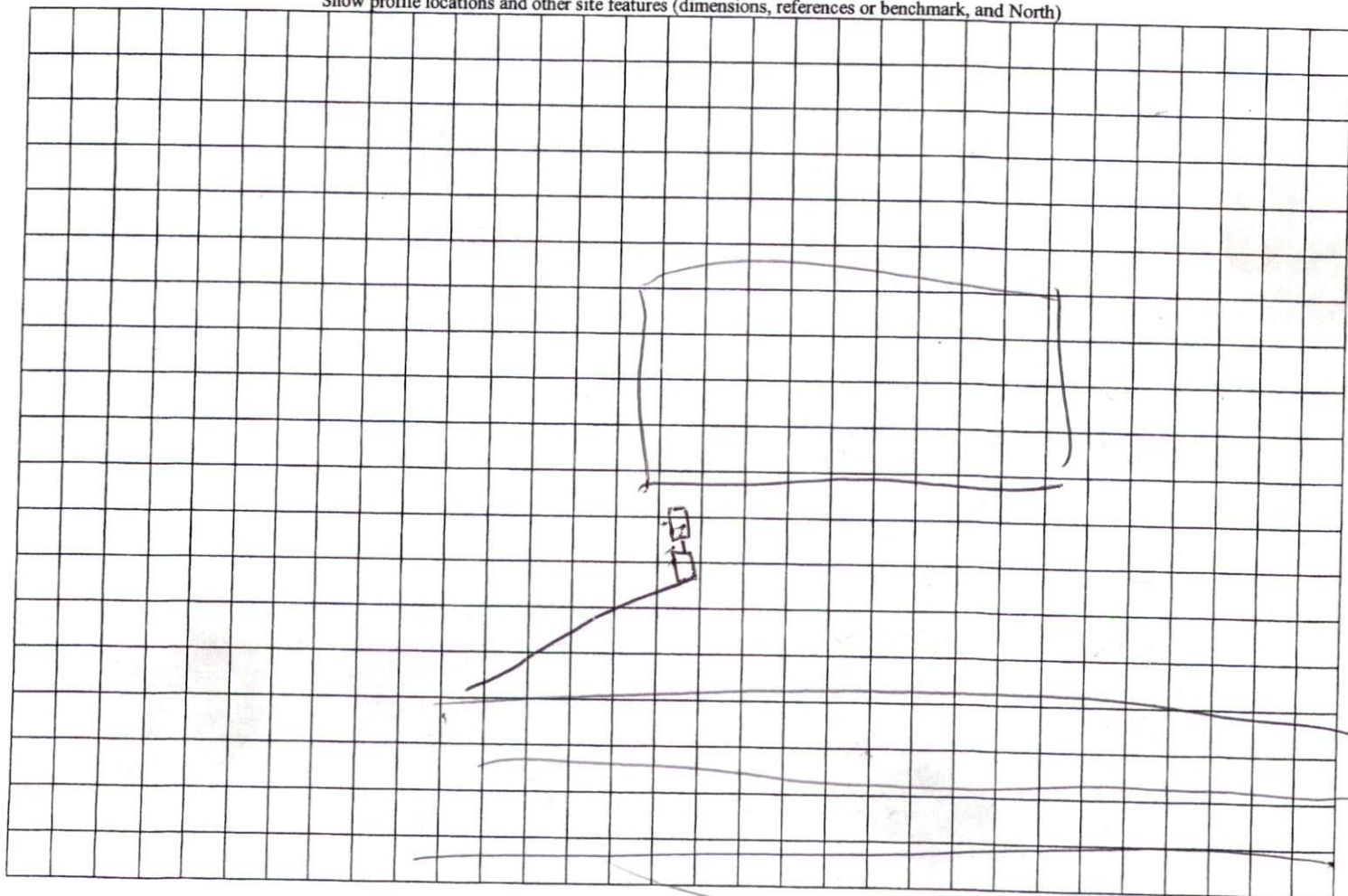
- SG-SINGLE GRAIN
- M-MASSIVE
- CR-CRUMB
- GR-GRANULAR
- SBK-SUBANGULAR BLOCKY
- ABK-ANGULAR BLOCKY
- PL-PLATY
- PR-PRISMATIC

MINERALOGY

- SLIGHTLY EXPANSIVE
- EXPANSIVE

960 @ .45
 215 con
 540 25%
 $V = 4,170 + 500 = 1623 = 1700 \text{ (9) min}$
 1200 pumf

Show profile locations and other site features (dimensions, references or benchmark, and North)



Southeastern Soil & Environmental Associates, Inc.

P.O. Box 9321
Fayetteville, NC 28311
Phone/Fax (910) 822-4540
Email mike@southeasternsoil.com

June 9, 2015

Mr. Rod Drake
50 Ridgeway Ct.
Sanford, NC 27332

Re: Soil/site evaluation for subsurface waste disposal, proposed private day school, 84 Tingen Road, PIN 9597-06-6530, Harnett County, North Carolina

Dear Mrs. Drake,

A soil/site evaluation has been conducted on a portion of the aforementioned property at your request. The purpose of the investigation was to determine if soils were acceptable for a subsurface waste disposal system to serve a proposed day school (90 students and 10 staff; facility flow 1150 gpd; cafeteria with single service items only; no gymnasium). All ratings and determinations were made in accordance with "Laws and Rules for Sanitary Sewage Collection, Treatment, and Disposal, 15A NCAC 18A .1900".

At least one site was located on the tract containing soils that have provisionally suitable properties exceeding 36 inches. The site essentially lies on a linear slope (3 - 6%) landscape. Soil borings conducted in most of this area consisted of 12 or more inches of loamy sand underlain by sandy clay loam extending to 40 or more inches. Soil wetness and/or parent material (greater than 50%) was typically observed greater than 36 inches below the soil surface. All other soil characteristics were either suitable or provisionally suitable to at least 36 inches.

Based on soil borings and site conditions, the site would be designated provisionally suitable for a shallow conventional subsurface waste disposal system (depending on building/parking location, may require the use of pumps, fill, innovative drainline, French drains, etc.). The site contains enough provisionally suitable area, as required, to allow for subsurface repairs (may require systems mentioned). A map showing the approximate location of the site accompanies this report. **[Note: No grading, rutting or other soil disturbance can occur in this area prior to obtaining a permit from the Harnett County Health Department. Any grading without a permit can alter the findings of this report.]**

A design for this system type may be required by the county health department prior to agency action (by SSEA; at separate expense to client).

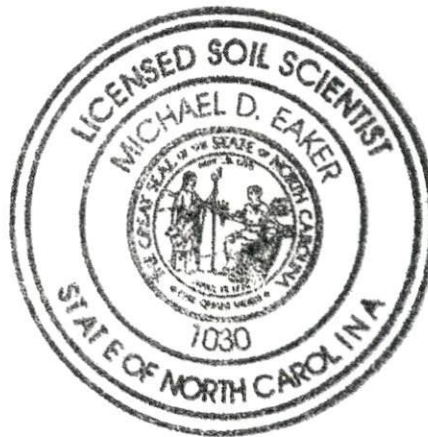
This report, of course, does not guarantee, constitute or imply that a permit will be issued by the Harnett County Health Department. Because professional differences of opinion sometimes occur, we recommend obtaining a permit from the Harnett County Health Department prior to making any financial commitments for your intended use. This is the only "guarantee" of a site's suitability.

This report only represents my professional opinion as a licensed soil scientist. Permits will only be granted if health department personnel concur with the findings of this report.

Sincerely,



Mike Eaker
NC Licensed Soil Scientist

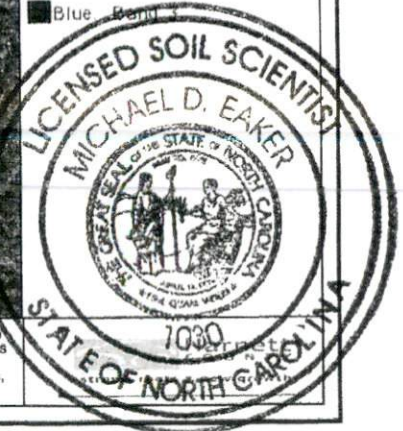


HARNETT COUNTY, NORTH CAROLINA

GIS/LAND RECORDS




- AddressPoints
- Road Centerlines
- MajorRoads
- Rivers
- Parcels
- County_Boundary
- CityLimits
- Harnett_2013 sid
 - Red: Band_1
 - Green: Band_2
 - Blue: Band_3



Harnett County GIS
305 W Cornelius Harnett Blvd, Suite 100
Lillington NC 27546
Phone: 910-893-7523 www.harnett.org

Any use of this map shall be at the sole risk of the user of this map. Although, all effort has been taken to insure accuracy in the data presented, Harnett County makes no warranty, expressed or implied, as to the accuracy of this information represented herein. Any user of this product shall hold harmless Harnett County, its elected officials, employees and agents from and against any claim, damage, loss, action, cause of action, or liability arising from the use of this GIS product.

 = PROVISIONALLY SUITABLE SOIL FOR SEPTIC