

# DANIEL J. BLILEY

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May 10, 2020

Mr. Ken McGee  
GREENFIELD HOUSING CENTER  
2117 Highway 70 East  
Garner, North Carolina 27529

Ken:

This report concerns the preliminary soils and site investigations for septic system suitability on the on the Bankes lot (5.51 acres) located behind the existing house lot on Carson Gregory Road north of Coats in eastern Harnett County. The parcel identification number for the lot is: 0691-87-2121.

The attached sketch map shows the location of a provisionally suitable soils area as identified from field investigations as well as the proposed location for two dwellings to be sites on the property. Proposed initial drain field systems for each of the proposed dwellings are also shown. This map was prepared using property information and aerial photography obtained from the Harnett County GIS web site. The topographic contours (2 ft. interval-LIDAR) were obtained from the NC DOT GIS web site. The USDA soil survey maps of the area and the USGS topographic map were also used as general guides to the soils, landforms and streams.

The soils was identified from hand auger borings made at selected locations and from field observations of soils related vegetation and landforms. The locations of the individual soil borings as well as selected cultural features were estimated using a Trimble mapping grade GPS receiver. This information should be sufficient to confirm the feasibility of obtaining sewage disposal sites for the two three-bedroom dwellings that are proposed.

**PROVISIONALLY SUITABLE SOILS:** These are well drained soils that have grayish brown and light yellowish brown sandy loam to loamy sand surface layers 8 to 12 inches thick. The underlying subsoils are yellowish brown to yellowish red sandy clay to sandy clay loam that exhibit soil structures and are free of seasonal wetness indicators within the upper 30 to more than 40 inches of the soil profiles. These soils have potential for conventional septic system drain fields. The sewage loading rates (LTAR) are estimated to range from 0.30 to 0.40 gal./sq. ft. of trench bottom for conventional drain field trenches.

The provisionally soils area identified by these investigations contains approximately 112,304 sq. ft. This area is more than sufficient to support septic drain fields (including the repair) for the two three-bedroom dwellings that are planned for the property. The recommended locations for initial drain fields (3 X 100' trenches) are shown by symbol on the sketch map. Sufficient trenches are flagged to support the dwellings at the lowest estimated LTAR for the soil type.

SOIL MAPPING • SITE INVESTIGATION • LAND RESOURCE DATA EVALUATION


Licensed Soil Scientist

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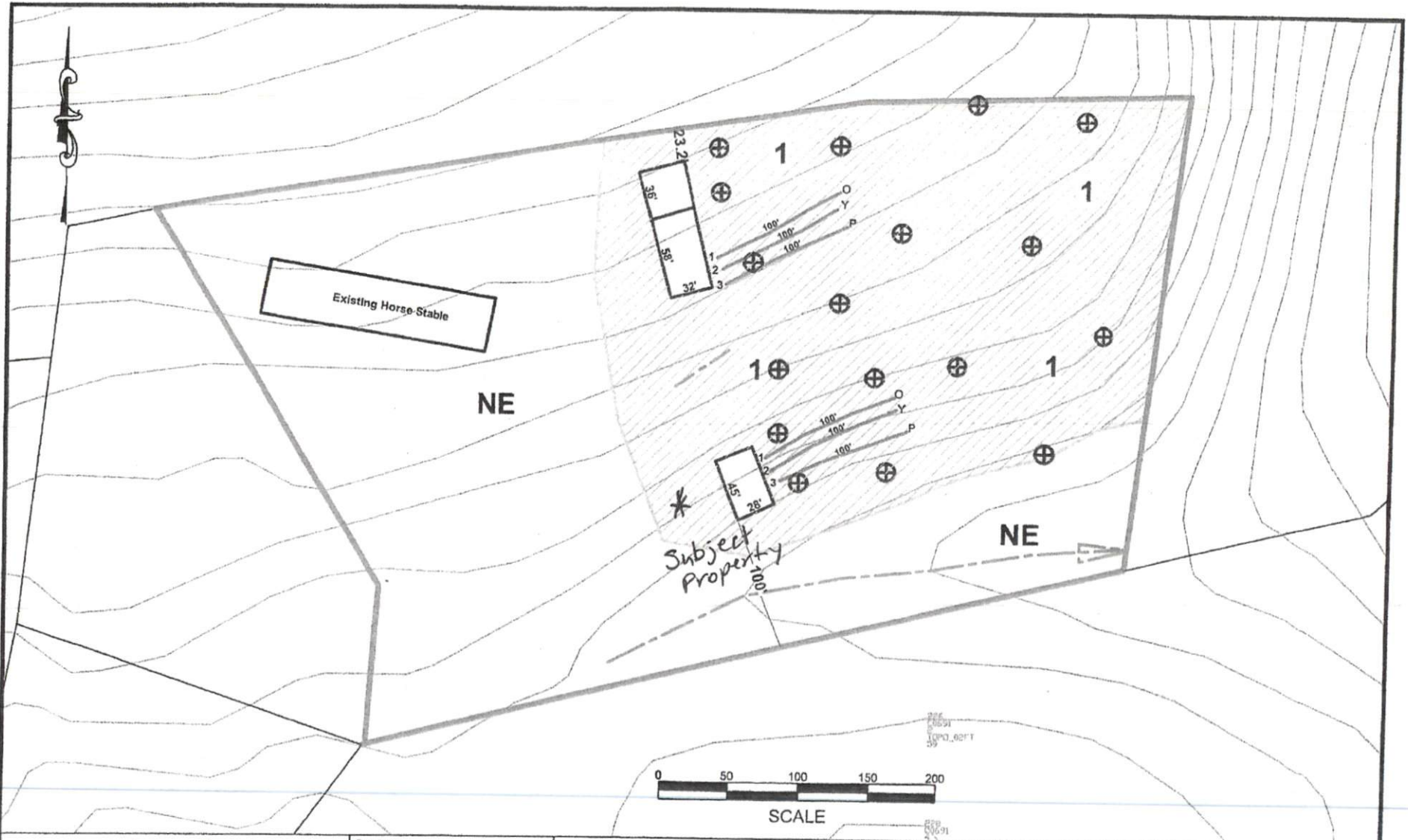
It is likely that additional provisionally suitable soils are present in the area not investigated (NE) based on general observations of the landscape, vegetation and from the USDA soils map. The area is mapped in the Norfolk (NoB) soils mapping unit. Norfolk soils are classified as having moderate limitations for drain fields and are commonly permitted throughout Harnett County.

Please call me if you have any questions regarding these investigations or the development of the property.

Sincerely

  
Daniel J. Bliley  
Licensed Soil Scientist





Legend	
	Provisionally Suitable
	Not Evaluated
	Surface Drain-Gully
	Soil Borings
	Flagged Drain Field Trenches

Project:	Pascoe Site Plan
Client:	Ken McGee
CAD File:	CarsonGregory
Scale:	1" = 100'
Date:	May 10, 2020

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