

October 31, 2020

Mr. Oliver Tolksdorf
Soil Scientist
Harnett County Environmental Health
307 West Cornelius Harnett Boulevard
Lillington, North Carolina 27546

Oliver:

This report concerns the preliminary soils and site investigations for septic system suitability on Lot 1 in the minor subdivision for Matthew & Bethany Miskiewicz located on the north side of Festus Road about 1,000 ft. southeast of the intersection with Ebenezer Church Road in eastern Harnett. The property identification number for the original tract is: 1611-10-1227. Lot 2 in this subdivision has an existing dwelling with septic system and is 11.42 acres in area..

The attached copy of the property map for lot 1 shows the locations of a provisionally suitable soils areas on the proposed lots as well as the relevant drainage feature and the proposed house location. . This map was prepared using a copy of the subdivision provided by the surveyor as well as property information and topographic information obtained from the Harnett County GIS web site. The USDA soil survey map and the USGS topographic map were also used as general guides to the soils and landforms.

The soils area as shown on the attached sketch map and boundaries were estimated from hand auger borings made at selected locations and from field observations of soils related landforms and vegetation. The locations of the individual soil borings as well as selected drainage features and cultural features were estimated using a Trimble mapping grade GPS receiver. This information should be of sufficient detail to verify the feasibility of developing the property using septic drain fields for on-site sewage disposal. Additional detailed investigations may be required before any permits for sewage disposal can be finalized. The need for additional investigations will depend upon the details of the specific proposals for development.

SOIL SUITABILITY

The suitability classifications of the soils areas as shown on the attached sketch maps based on North Carolina On-site Sewage Disposal regulations (15A NCAC 18A .1900-.1971) are as follows:

SOILS AREA 2: These soils will classify provisionally suitable for conventional or modified conventional septic system drain fields. These soils have sandy and gravelly surface and subsurface layers, which are underlain by loamy subsoils that are yellowish brown in color to depths of 36 inches or greater. The subsoils are free of seasonal wetness indicators and exhibit soil structure within the upper 36 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 0.40 to 0.50 gal./sq. ft. of trench bottom.

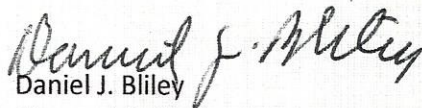
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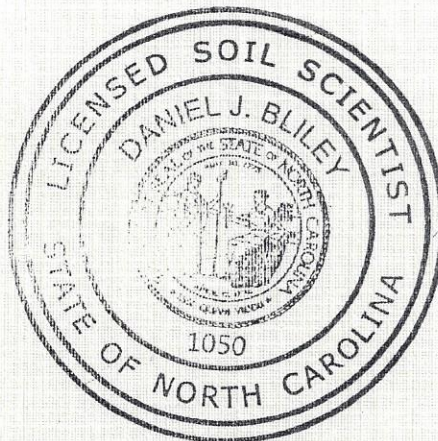
SUMMARY

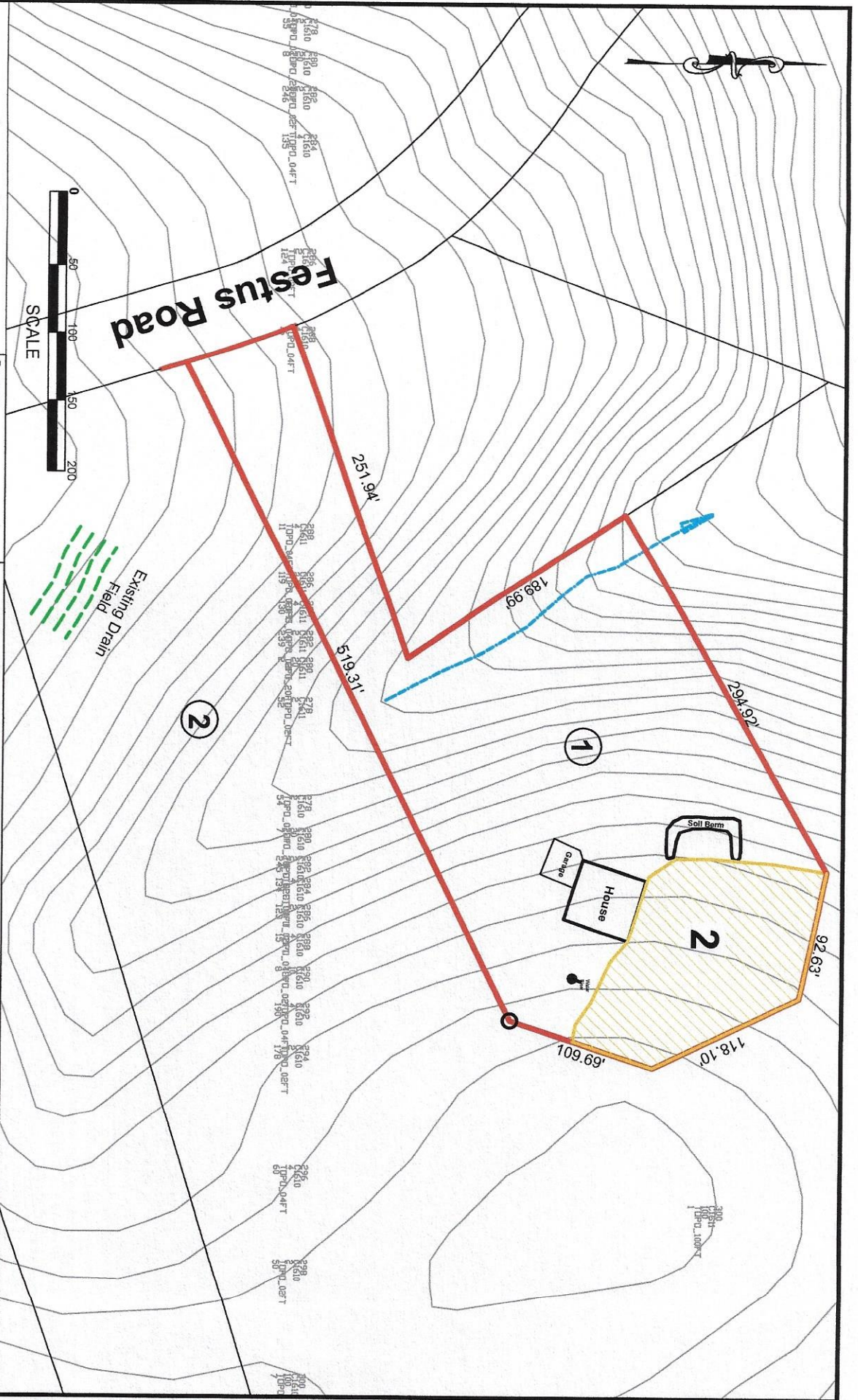
Lot 1 of this subdivision contains in excess of 16,000 sq. ft. of soils area 2, which will classify provisionally suitable for conventional or modified conventional septic drain fields. This soils area is sufficient for the lot to be approved for sewage disposal. It appears that a gravity conventional septic system will be feasible given the location of the proposed dwelling as shown.

Please contact me if you have any questions regarding these investigations or the development of the lots individually.

Sincerely


Daniel J. Bliley
Licensed Soil Scientist





Legend



Provisionally Suitable



Stream

Project:	Lot 1
Client:	Miskiewicz
CAD File:	Miskiewicz
Scale:	1" = 100'
Date:	October 31 2020

Daniel J. Biley

Soils and Land Use Consultant

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