

DANIEL J. BLILEY

SOIL AND LAND USE CONSULTANT

614 SOUTH SECOND STREET

SMITHFIELD, NORTH CAROLINA 27577

(919) 934-8610

May 24, 2019

Mrs. Hannah Wool
330 Pine Level Micro Road
Pine Level, North Carolina 27568

INVOICE

ITEMS	COST
Preliminary soils and site investigations for septic system suitability on the Denning property (18.58 acres) located on the west side of Lee-Johnson Road near the intersection with Holly grove Road in southern Johnston County..	\$ 300.00

SOIL MAPPING • SITE INVESTIGATION • LAND RESOURCE DATA EVALUATION

Licensed Soil Scientist

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Hannah:

This report concerns the preliminary soils and site investigations for septic system suitability and related development issues on the Denning property (18.58 acres) located on the west side of Lee-Johnson Road just northwest of the intersection with Holly grove Road in southern Johnston County. The property identification number is: 155500-79-1050.

The attached sketch map shows the approximate location of s proposed septic drain field site as identified from field investigations as well as various soils areas identified from the USDA soils map and the LIDAR topographic contours. This map was prepared using property information and aerial photography obtained from the Johnston 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 were also used as a general guide to the soils, landforms and streams.

The identified suitable septic site (area 1) was identified from hand auger borings made at selected locations and from field observations of soil related landforms and vegetation. The locations of the individual soil borings as well as selected other features were estimated using a Trimble mapping grade GPS receiver. The other soils areas are inferred from the USDA soil survey maps and the LIDAR topographic contours.

SOIL SUITABILITY

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

SOILS AREA 1: These soils will classify suitable for septic system drain fields. These are well drained soils that have sandy surface layers and sandy subsoils that are thicker than 36 inches. These soils have potential for conventional septic drain fields. The sewage loading rate is estimated to be +0.60 gal./sq. ft. of trench bottom.

SOILS AREA 2: These are BnA and UcC soils areas that are estimated from the USDA soil survey map and from the LIDAR topographic contours. It is estimated that these soils will classify suitable to provisionally suitable for septic drain fields. It is likely that most of these soils will have potential for septic drain fields. The sewage loading rates are similar to area 1 soils .

Mrs. Hannah Wool

May 24, 2019

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SOILS AREA 3: These are areas Bb soils areas from the USDA soils map and a borrow pit area (from the GIS aerial photograph) where the naturally occurring soils have been significantly disturbed by mining operations. Most of these soils are unsuitable for septic drain fields due to wetness, flood hazard and disturbance of the naturally occurring soils. Riparian buffers are designated 50 ft. each side of the stream channel that runs through the bottomland. These buffers are mandated under the Neuse basin regulations (15A NCAC 02B .0233). Most development related activities are prohibited or are greatly restricted within the buffer zone. You can access the regulations via a Google search if you need more details regarding allowed land uses within the buffer.

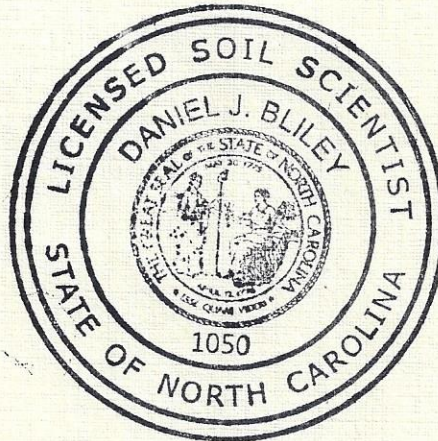
There should not be any significant problems with the permitting of septic drain fields at the location as you propose. It is likely that most of the upland areas (area 2) will also have potential for sewage disposal development. Please call me if you have any questions regarding these investigations or other proposals for developing the property.

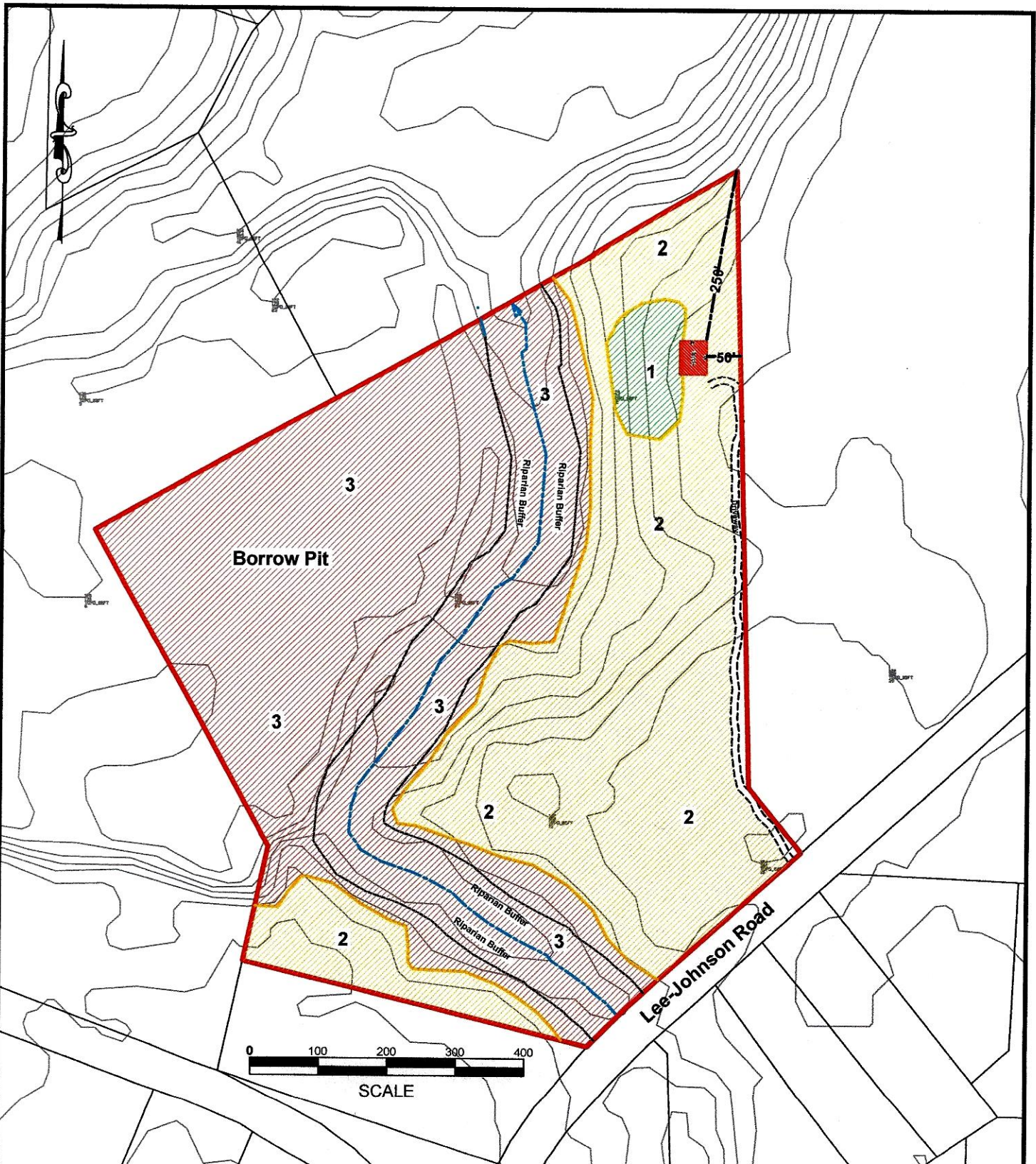
Sincerely



Daniel J. Bliley

Licensed Soil Scientist





Project:
 Client: Hannah Wool
 CAD File: Wool
 Scale: 1" = 200'
 Date: May 24, 2019

Daniel J. Bliley
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Legend

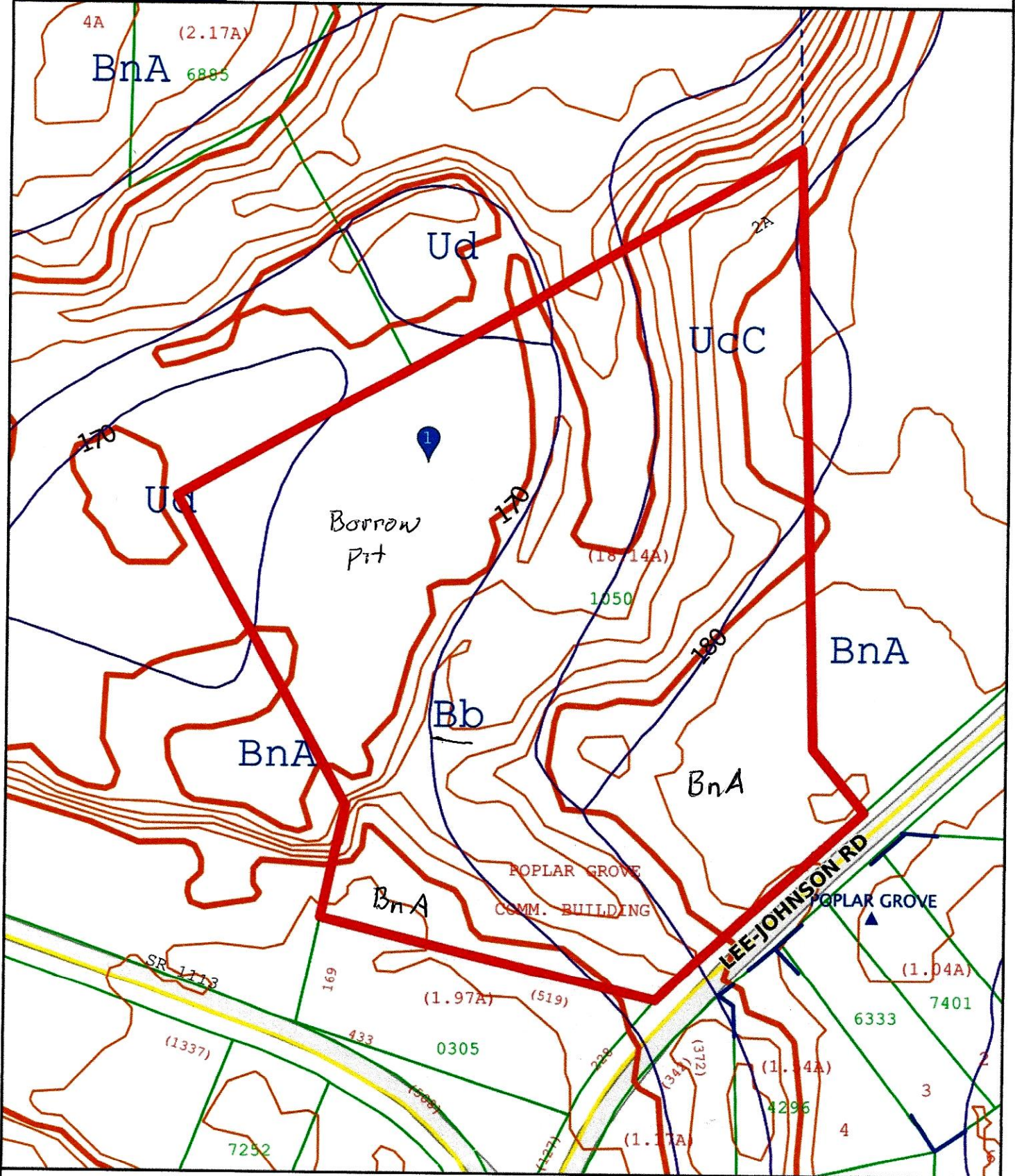
- 1 Suitable
- 2 BnA & UcC Soils
- 3 Bb & Borrow Pit
- Stream

USDA Soils



*** DISCLAIMER ***

Johnston County assumes no legal responsibility for the information represented here.



Scale: 1:2400 - 1 in. = 200 feet

(The scale is only accurate when printed portrait on a 8 1/2 x 11 size sheet with no page scaling.)

Johnston County GIS
May 24, 2019