

Adams Soil Consulting
1676 Mitchell Road
Angier, NC 27501
919-414-6761

August 18, 2022
Project #1480

David Cannell

RE: Preliminary soil/site evaluation for approximately 2.88 acres located at to "Old US 421" in Harnett County, NC (PIN #: 0620-15-2645)

Mr. Cannell,

Adams Soil Consulting (ASC) conducted a preliminary soil evaluation on the above referenced parcel to determine the areas of soils which are suitable for subsurface wastewater disposal systems (conventional & LPP). The evaluation was performed using hand auger borings during moist soil conditions based on the criteria found in the State Subsurface Rules, 15ANCAC 18A .1900 "Laws and Rules for Sewage Treatment and Disposal Systems". From this evaluation, ASC sketched the boundary between the suitable soils and unsuitable soils onto a background map taken from the Harnett County GIS database.

The suitable soils shown on the accompanying soil map have potential for a conventional type septic system. There is potentially adequate available space for an initial and repair area for one single family home site on the lot. A bedroom count cannot be specified without a full septic design, but there is apparently adequate available space for a 4-bedroom home. The lot contains approximately 25,000 ft² or more of provisionally suitable soils that consist of a clay loam to clay subsoil that can support a daily loading rate of 0.3-0.4-gallons/day/ft². Only a portion of the property was evaluated.

The specific septic systems and/or repair systems will be permitted by the Harnett County Health Department. Additionally, the Harnett County Health Department will establish the loading rates for any proposed system. The areas for the proposed septic fields shall not be impacted by home sites, pools, garages and shall not be mechanically altered from the natural lay of the land.

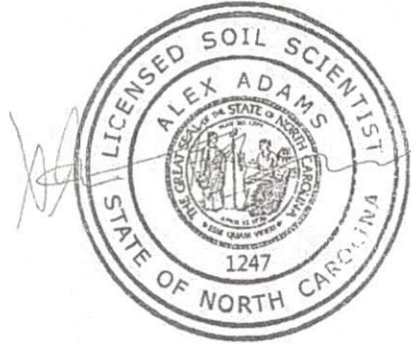
The lot will require a detailed soils evaluation by the Harnett County Health Department prior to issuance of any permits for a septic system. A septic system layout/design may be required before a permit can be issued on the above referenced lot demonstrating available space for the primary and repair septic areas. Due to the subjective nature of the permitting process and the variability of naturally occurring soils, Adams Soil Consulting cannot guarantee that areas delineated as suitable for on-site wastewater disposal systems will be permitted by the governing agency. The lot may require a septic system utilizing pumps, shallow or ultra-shallow conventional trench placement, low pressure pipe system, and/or reductions system for final approval. The accompanying soil map is preliminary in nature, no further assumptions or subdivision should be made without a more detailed evaluation.

If you have any questions regarding the findings on the attached map or in this report, please feel free to contact me anytime. Thank you allowing me to perform this site evaluation for you.

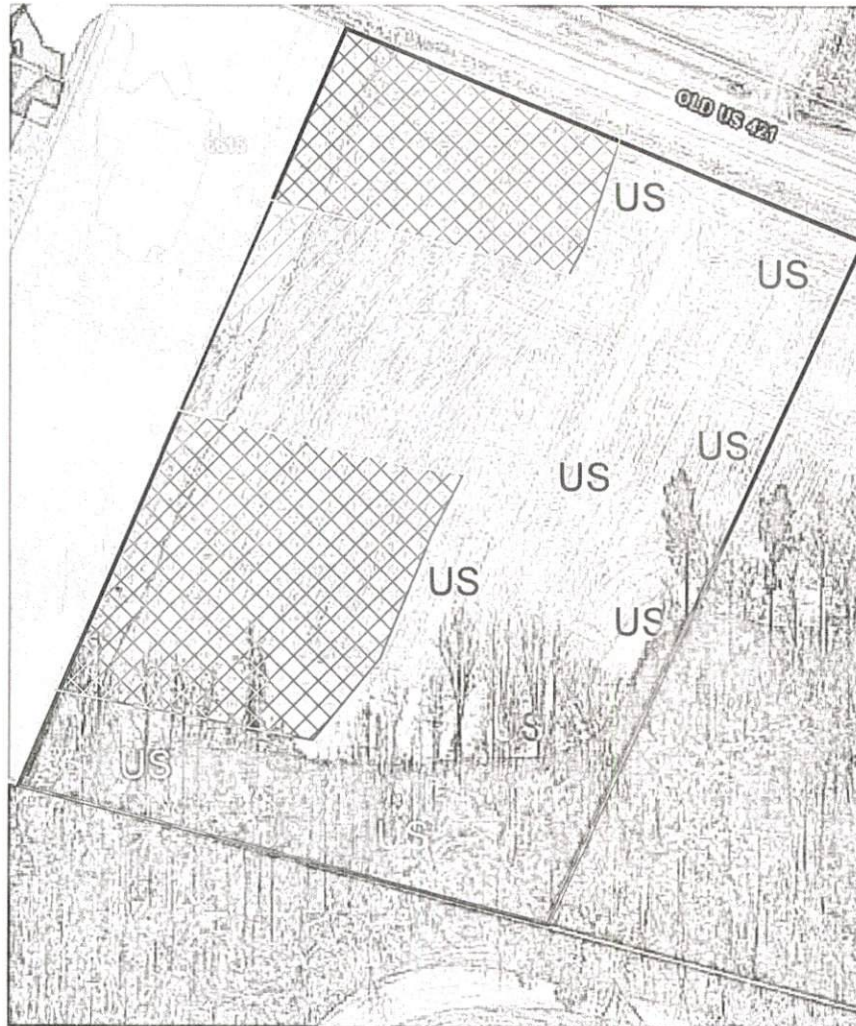
Sincerely,





Alex Adams
NC Licensed Soil Scientist #1247



Preliminary Soils Evaluation
 Old US 421 - ~2.88 acres
 Harnett County, NC (PIN#: 0620-15-2645)



Legend

-  Areas contain soils with 30 inches or more of useable soil material and have potential for conventional, modified conventional, LPP or ultra-shallow conventional septic systems. There may be inclusion of soils 24-29 inches to a restrictive horizon that will have potential for LPP septic systems.
-  Areas contain soils with 20 inches or more of useable soil material and have potential for modified conventional, LPP, or ultra-shallow conventional or septic systems using low profile chambers.
- US** Unsuitable areas for onsite waste water disposal or areas Not Evaluated

*Preliminary Soils Evaluation

*Soil boundary was sketched onto a preliminary map of the property taken from public records.

*Not a Survey.

*Septic system setbacks listed below for new lots.

- 1) 10' from property lines.
- 2) 50' minimum from well for septic systems.
- 3) 50' from surface waters (streams, ponds, lakes).

*Any mechanical disturbances such as grading, cutting and filling of the suitable soil areas can render areas unsuitable for future septic systems.

*See accompanying report for additional information.

*Due to Soil Variability, Adams soil consulting cannot guarantee that the areas shown as suitable will be permitted by the local Health Department.

*Not a Survey
(sketched from public records)



GRAPHIC SCALE
 1" = 100'



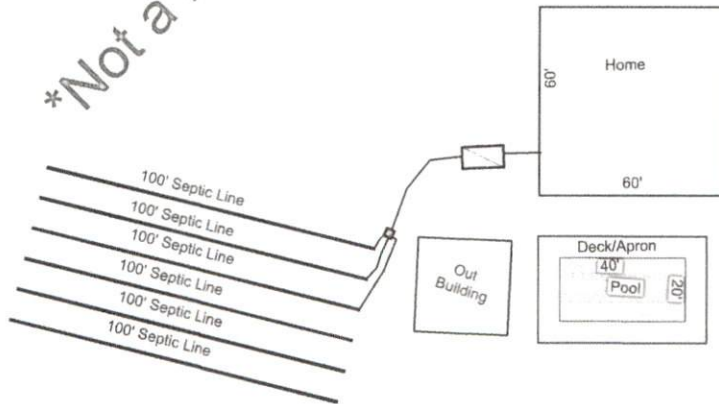
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Preliminary Soils Evaluation
Old US 421 - ~2.88 acres
Harnett County, NC (PIN#: 0620-15-2645)
Conceptual Septic Plan

*Not a Survey
(sketched from public records)

Old US 421

**Not a Permit (Concept Only)*



GRAPHIC SCALE
1" = 60'



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