

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

February 6, 2025
Project #2080

RE: Preliminary soil/site evaluation for a single parcel of approximately a parcel of approximately 0.48 acres located adjacent to 27 Bufford Ln in Harnett County, NC (PIN # 9575-49-3413)

Mr. Quarto,

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 "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 a single-family home site on the parcel in the general areas identified on the attached soil map. A bedroom count cannot be specified without a full septic design, but there is apparently adequate available space for at least one 3-bedroom home. The lot contains approximately 20,000 ft² or more of provisionally suitable soils in each of the areas evaluated. The suitable soil was found to consist of a sandy clay loam textured subsoils that could support a daily loading rate of 0.25-0.4 gallons/day/ft². The areas shown as provisionally suitable may not account for any easement areas or underground utilities that would need to be avoided.

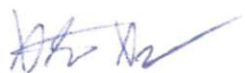
The specific septic systems and/or repair systems will be permitted by the Cumberland County Health Department or other permitting authority. Additionally, the Harnett County Health Department or other permitting authority will establish the loading rates for any proposed system. The areas for the proposed 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 or other permitting authority 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 Soil Evaluation

27 Bufford Ln
Harnett County NC
PIN# 9575-49-3413

2-6-25

*Not a Survey
(sketched from public records)

Legend



Areas contain soils with 24 inches or more of useable material and have potential for conventional, modified conventional, LPP or ultra-shallow conventional septic systems.



*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) 100' from wells for primary systems.
- 3) 50' from surface waters (streams, ponds, lakes).

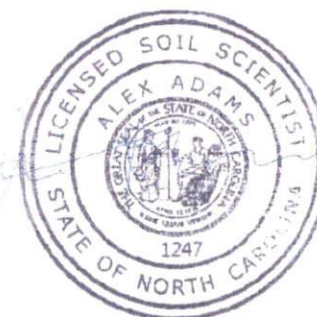
*Any mechanical disturbances such as grading, cutting and filling of the suitable soil areas can render areas unsuitable for future septic systems.

*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.

* A more detailed soil evaluation is required prior to final subdivision planning.

1" = 60'



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2-2-25