



Soil Horizons, LLC
PO Box 1063
Youngsville, North Carolina 27596

Memo

DATE: May 23, 2023

TO: **Mr. Chris Hedrick, REHS**
Vance Granville Health District

Mr. Dickie Brewer, Land Owner

FROM **John R. Davis, Jr. LSS**

RE Daniel Boone Trail IP/CA Application. Vance County

Chris, Hope all is going well, Grandpa! Hope to get that status too one day. Anyway, I am working with a landowner, Mr. Brewer, in Vance County. He lives in Kentucky and has several small lots together and most of them are unsuitable for septic systems. I did find one area of about a half acre of soil on one of the lots that has sandy loam over some sandy clay loam. I think this area will respond to some upslope drainage and may serve as an off site area for a few of the lots. Anyway, Mr. Brewer, is attempting to make an application on that particular lot, so we can take a look at it. I understand that you may need to get the regional soil scientist out to look at it as well especially since we need to consider a French drain etc. Mr. Brewer is having some difficulty in making the application and paying the fee for this one, so I have put together a site plan for him and will attach to this memo to assist in getting his application completed. If we can determine a way to utilize this soil area we may need to make some modifications to his application and even apply for additional lots for an offsite easement. Let me know if this is the best approach to get an evaluation on the initial lot. Attached is the preliminary soil map that shows the lots etc. and a site plan for the one lot with the potentially usable soil. We will be glad to provide whatever other info you need to get this lot reviewed. Thanks John

Preliminary Soil Study for Septic System Suitability

Daniel Boone Trail

Vance County, NC

April, 2023

John R. Davis, Jr. LSS

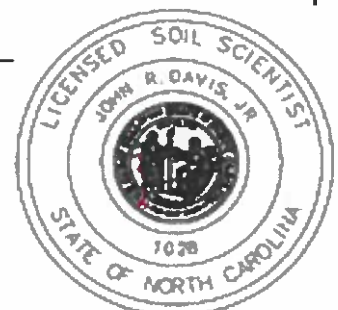
*Fred Smith Rocky Mount
State Soil Scientist*

→ 100 ft ←



Most of this property shown in "Gray" shading has soil depths to saprolite, mixed mineralogy clay or wetness less than 18 inches from the surface which renders the soil as **unsuitable** for septic systems.

The round area shown in "Orange" shading has coarser textures of sandy loam and sandy clay loam that appears to be a good candidate for drainage utilizing an upslope interceptor drain to catch subsurface groundwater movement and discharge it to a daylight drain as shown by the conceptual "Aqua" arrow. With drainage modifications, this area may be reclassified as **provisionally suitable** for a common drainfield for several single family dwelling septic systems. A site meeting with the local and state regulators may be needed to discuss drainage and reclassification options and systems types. An application to the Vance County Health Dept for permitting purposes for at least one single family house will be required to get the regulators on site to look at this site and soil.



John R. Davis, Jr.

Site Plan for Septic System Evaluation
Daniel Boone Trail
Vance County, NC
May, 2023

← 40 ft →



Proposed 3 bedroom house with septic system in the backyard.

County Water Supply, No Well Needed.

N 45° 37' 38" E
50.58' (tie)

S.R. 1319 "Satterwhite Point

