

## SEARCY SOIL MAPPING

Michael J. Searcy  
351 Cline Rd.  
Dandridge, TN 37725  
Phone: (865) 850-5499  
etsoilguy@charter.net

September 26, 2017

Mr. Chuck Fisher  
Furrow Auction Company  
1022 Elm St.  
Knoxville, TN 37921

Re: Porter H. Bell Estate

Dear Mr. Fisher,

At your request, I have assessed 30 tracts of the Porter H. Bell estate for establishing areas suitable for conventional subsurface sewage disposal systems (drainfields) required by The State of Tennessee before construction permits may be obtained. I understand these tracts, located in the 4<sup>th</sup> Civil District of Hamblen County, are being offered for sale on September 30, 2017.

After numerous borings across these tracts I have determined that tracts 1-12, located on the north side of Springvale Rd., have numerous areas on each that soil scientists are allowed to assign rates to by Tennessee's Department of Environment and Conservation, Division of Water Resources. The soils are quite deep over limestone and percolation tests would not be needed to establish fieldline sites. Additionally, tracts 11 and 12 have existing systems already in place.

On the south side of Springvale Rd. tracts 13, 14, 20 and 21 also have similar soils derived from mixed limestone and shale. Tracts 22, 23 and 26 have narrow areas along both sides of the creek that have suitable areas with use of an interceptor drain as well as hillsides further back from the road that are underlain by shale, but are deep enough for percolation tests. The large flag tracts, 24 and 25, appear to exist over a broad ridge of tilted shale that, by my experience working on adjacent properties in the past, have substantial areas of soils that are quite deep with qualities I am allowed to assign rates to. Actual need for any percolation tests on these tracts would be largely contingent upon where home sites were desired.

Tracts 27-30 have narrow areas near Springvale road that are suitable for fieldline installations as well as large areas toward the back of each where passing percolation tests would establish areas more convenient to house sites that might be situated at higher elevations. Again, my past work on adjacent properties along this ridge revealed areas with sizable bands of suitable soils I was able to rate without percolation tests.

Lastly, tracts 15-19 along Clyde Thomas Rd. all have substantial areas that are suitable for conventional drainfield installations without the need for percolation tests.

In summary, all tracts being offered for sale on the morning of September 30 at this site appear to have suitable areas for 3-bedroom drainfield sites according to TDEC regulations and TDEC is the only entity that can actually issue permits for drainfield systems in the state. As always, I am most happy to provide high resolution soils maps on any of these properties your buyers may require in the future. All are encouraged to contact me if I can be of further assistance in this matter.

Respectfully,



Michael J. Searcy  
Tennessee Licensed Soil Scientist #0025



9-26-2017