

HIGH INTENSITY SOILS MAP FOR
CONVENTIONAL DRAINFIELD SYSTEMS
Portion of Map 26, Parcel 32, 1155 Fowlers Grove Rd.
Civil District 3, Cocke County, TN

Project: # 23012
For: 1155 Fowlers Grove, LLC

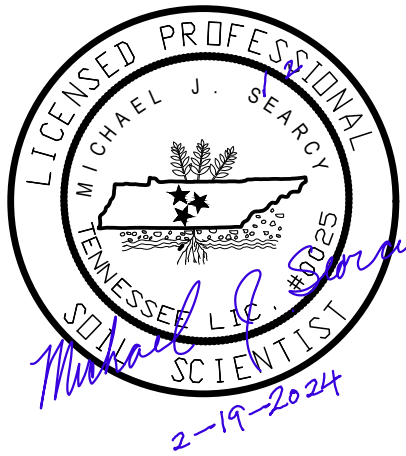
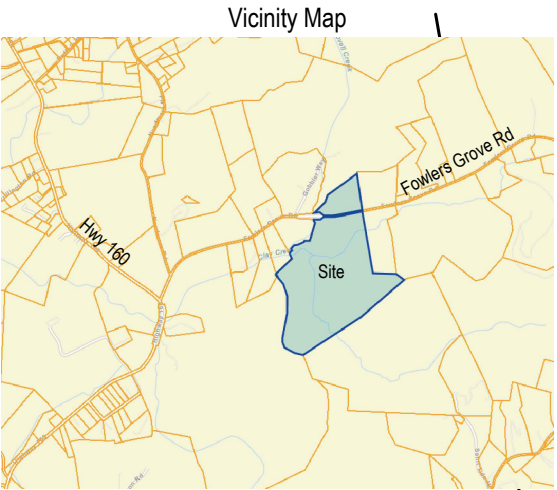
IF THESE SOILS ARE DISTURBED (CUT, FILLED OR COMPACTED) AFTER THE DATE SHOWN BELOW, THIS
SOILS MAP WILL NOT BE VALID!

I Michael J. Searcy, affirm that this soil map meets the standards established in the Regulations to
Govern Subsurface Sewage Disposal, The Soils Handbook and Soil Taxonomy. No other warranties are
made or implied.

Michael J. Searcy

2/19/2024

Signature of Soils Consultant does not constitute approval of lot by The Division of Groundwater Resources.



THIS AREA NOT
SOIL MAPPED

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SOIL MAPPED

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Map Legend

- lot corner ○
- control flag A1
- drain (25' setbacks) — — — — —
- drain (15' setbacks) — — — — —
- gully (15' setbacks) — — — — —
- cut bank — — — — —
- drive — — — — —
- rock outcrop Vv
- doline bottom — — — — —
- culvert — — — — —
- fence — — — — —
- perc hole ●
- iron pin found ipf
- power pole ⚡

scale
1"=100'

SOILS LEGEND

SOIL NAME SLOPE CLASS	DEPTHS	ESTIMATED ABSORPTION RATE (MPI)	DEPTH TO RESTRICTING LAYERS (INCHES)	SOIL IMPROVEMENT PRACTICES/ NOTES/ PERC STATUS	COLOR CODE
Hamblen, 0-2%	0-24" 24-48"	75 MPI >75 MPI	REDOX FEATURES BELOW 24"	Hamblen soils have formed very deep, moderately well drained soils on flood plains. These soils formed in loamy alluvium from watersheds dominated by limestone, sandstone and shale. Redoximorphic features (gray mottles and manganese nodules) were noticed at depths just below 24 inches and as a result, depth restrictions of 24 inches in tandem with interceptor drains installed 12 inches below are required for this area to be used as a conventional drainfield site. The unit is non-karst, non-percable due to wetness.	Red/ Yellow
Pettyjon, 0-3%	0-48"	45 MPI	>48"	The Pettyjon series consists of very deep, well drained soils that formed in loamy alluvium from shales and limestone. These soils require surface water protection above any fieldline installation to prevent over-saturation during wet periods of the year. The unit is considered non-karst, percable at this location.	Red/ Green
Shelocta, 0-15%	0-48"	45 MPI	>48"	Shelocta soils have formed in deep, mixed colluvium from metasedimentary geologies located higher in the local landscape. The unit must have surface water protection to prevent over-saturation during wet periods of the year. The unit is non-karst, percable.	Red/ Green
Whitesburg, 0-2%	NA	>75 MPI	<20" TO REDOXIMORPHIC FEATURES	Although these soils are loamy throughout the soil profile, wetness features in the form of soft manganese accumulations, chroma 2 gray mottling and actual free water from wet weather springs keep this map unit from fieldline consideration. This area must be avoided for drainfield use, as it is not a viable candidate for soil improvement practices such as positive drainage. The map unit is non-karst, non-percable due to wetness.	Red