

KMS SEPTIC DESIGN, INC

KENNETH M. SALZMANN

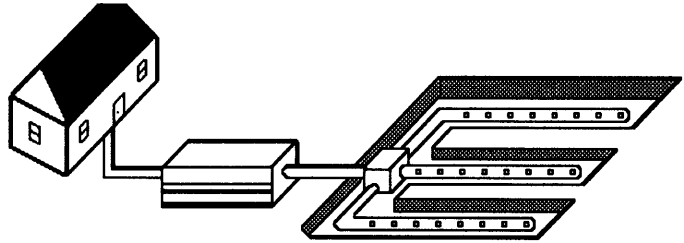
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LICENSED DESIGNER BW #152.0126840



Soil Descriptions for 1759 Burton Hill Road, Barton, Vermont for Mohegan Real Estate, LLC
See attached Ortho of Lands (Dated 1/21/2022, Map #2022-02) for Test Pit Locations

Test Pit #1 (TP1): (GPS: N 44.76147 W 72.22315)

- 0" -6" Very dark grayish brown (10YR, 3/2) fine sandy loam, subangular blocky structure, friable
No redoximorphic (redox) features or mottling
6" -12" Dark Brown (10YR, 3/3) fine sandy loam, subangular blocky structure, friable
Redox observed @12"
12" -36" Grayish Brown (10YR, 5/2) fine sandy loam, subangular blocky structure,
firm, no ledge to depth

Test Pit #2 (TP2): (GPS : N 44.76125 W 72.22347)

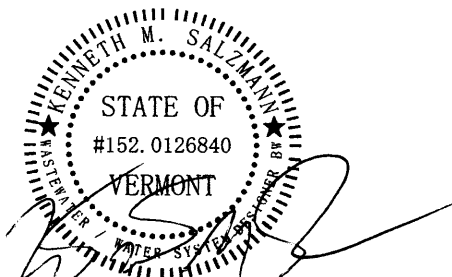
- 0" -8" Very dark grayish brown (10YR, 3/2) fine sandy loam, subangular blocky structure, friable
No redoximorphic (redox) features or mottling
8" -12" Dark Brown (10YR, 3/3) fine sandy loam, subangular blocky structure, friable
Redox observed @12"
12" -32" Grayish Brown (10YR, 5/2) fine sandy loam, subangular blocky structure,
firm, no ledge to depth

Test Pit #3 (TP3): (GPS : N 44.76081 W 72.22382)

- 0" -7" Very dark grayish brown (10YR, 3/2) fine sandy loam, subangular blocky structure, friable
No redoximorphic (redox) features or mottling
7" -12" Dark Brown (10YR, 3/3) fine sandy loam, subangular blocky structure, friable
Redox observed @12"
12" -36" Grayish Brown (10YR, 5/2) fine sandy loam, subangular blocky structure,
firm, no ledge to depth

Conclusion:

Soils are acceptable for an above ground mound-type sewer system. Based on an approximate assumed slope of 6-8%, a mound for a 3-bedroom house would be approximately 80'x5.25' + side slopes. A full design and Wastewater Permit is still required prior to any water or sewer system installations. It is noted that neither a water nor sewer system may be placed within the Portland Pipeline R.O.W., but I do believe that a driveway and possibly a force main may be able to cross it. This would require verification from the Portland Pipeline Company.



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