

163C: Tunbridge-Monadnock complex, 8 to 15 percent slopes, very stony

The Tunbridge component makes up 50 percent of the map unit. The natural drainage class is well drained. Water movement in the most restrictive layer is low. This component is on mountains, hills. The parent material consists of loamy till. Depth to a root restrictive layer, bedrock, lithic, is 20 to 40 inches.

The Monadnock component makes up 30 percent of the map unit. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. This component is on mountains, hills. The parent material consists of sandy and gravelly drift over sandy and gravelly drift. Depth to a root restrictive layer is greater than 60 inches.

Important farmland classification: NPSL

Land capability: 6 s

Vermont Agricultural Value Group: 9

Vermont Residential Onsite Waste Disposal Group and Subgroup: Ilc

This unit is moderately suited as a site for soil-based residential wastewater disposal systems, based on a review by the Natural Resources Conservation Service of criteria set forth in the Vermont 2007 Environmental Protection Rules. The depth to bedrock in some areas is the primary concern. A significant percentage of this map unit has sufficient soil depth over bedrock to accept a range of designs. On-site investigations can help avoid areas with limited depth to bedrock. Additional fill material may be needed in some areas in order to meet the separation distance requirement between the bottom of the leachfield and bedrock.

PHYSICAL and CHEMICAL PROPERTIES							EROSION FACTORS		
Soil name	Depth (In)	Typical texture	Clay (Pct)	Soil reaction (pH)	Permeability (In/Hr)	Organic matter (Pct)	Kw	Kf	T
Tunbridge	0-1	SPM	---	3.6 - 5.5	2-6	35-100	---	---	2
	1-4	FSL	1-15	4.5 - 6.0	0.6-6	2.0-8.0	.24	.24	
	4-25	FSL	1-15	4.5 - 6.0	0.6-6	0.5-4.5	.37	.37	
	25-35	UWB	---	---	0.01-20	---	---	---	
Monadnock	0-1	MPM	---	3.6 - 5.5	2-6	35-100	---	---	4
	1-5	FSL	1-15	4.5 - 6.0	0.6-2	3.0-8.0	.28	.28	
	5-22	COSL, LFS, VFSL	1-15	4.5 - 6.0	0.6-2	0.5-4.5	.37	.37	
	22-65	GR-COS, GRV-LCOS	1-5	4.5 - 6.0	2-6	0.0-1.0	.05	.24	

WATER FEATURES						SOIL FEATURES		
Soil name	Hydrologic group	Depth to seasonal high water table (Feet)	Flooding		Ponding		Hydric soil?	Depth to bedrock (range in inches)
			Frequency	Duration	Frequency	Duration		
Tunbridge	C	---	None		None		No	20-40
Monadnock	B	---	None		None		No	---

LAND USE LIMITATIONS				AGRICULTURAL YIELD DATA	
Soil name	Land use	Rating	Reason **	Crop name	Yield / acre
Tunbridge	Dwellings with basements:	Very limited	Depth to hard bedrock	Pasture	3.1 AUM
Monadnock	Dwellings with basements:	Somewhat limited	Slope	Corn silage	16 Tons
Tunbridge	Pond reservoir areas:	Very limited	Slope	Alfalfa hay	4 Tons
Monadnock	Pond reservoir areas:	Very limited	Seepage	Grass hay	3 Tons
				Grass-clover	5.7 AUM
				Grass-legume hay	3.5 Tons

WOODLAND MANAGEMENT				
Soil name	Management concern	Rating	Reason	Vermont natural communities
Tunbridge	Harvest equip operability:	Well suited		Northern Hardwood Forest, Hemlock-Northern Hardwood Forest, Mesic Red Oak-Northern Hardwood Forest, Beech-Red Maple-Hemlock-Northern Hardwood Forest Variant, Hemlock Forest
Monadnock	Harvest equip operability:	Well suited		
Tunbridge	Road suitability:	Moderately suited	Slope	
Monadnock	Road suitability:	Moderately suited	Slope	
Tunbridge	Erosion hazard (off-road):	Moderate	Slope/erodibility	

Monadnock Erosion hazard (off-road): Slight