SIE41: Tunbridge-Peru-Wilmington complex, 0 to 8 percent slopes, very stony

The Tunbridge, very stony component makes up 26 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 Dixfield, very stony component makes up 24 percent of the map unit. The natural drainage class is moderately well drained. Water movement in the most restrictive layer is moderately low. This component is on hills, mountains. The parent material consists of loamy basal till. Depth to a root restrictive layer, densic material, is 20 to 36 inches.

The Wilmington, very stony component makes up 20 percent of the map unit. The natural drainage class is poorly drained. Water movement in the most restrictive layer is moderately low. This component is on hills, mountains. The parent material consists of loamy basal till. Depth to a root restrictive layer, densic material, is 10 to 20 inches.

Important farmland classification: NPSL	Land capability: 6 s	Vermont Agricultural Value Group: 9

Vermont Residential Onsite Waste Disposal Group and Subgroup: IIIf

This unit is marginally 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 the seasonal high water table and the restricted depth to bedrock in some areas are the major limitations. 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. A detailed, site-specific analysis with groundwater level monitoring and determination of induced groundwater mounding may be required to establish the suitability of this unit. Mound system construction and other site modifications are often necessary. On sloping sites, curtain drains can help lower the water table to an acceptable level.

PHYSICAL and CHEMICAL PROPERTIES

Soil name	Depth (In)	Typical texture	Clay (Pct)	Soil reaction (pH)	Permeability (In/Hr)	Organic matter (Pct)	EROSION FACTORS Kw	Kf	T
Tunbridge, very stony	0-1	SPM	---	3.5 - 5.5	2-6	35-100	---	---	2
	1-4	FSL	2-15	3.5 - 6.0	0.6-6	2.0-10	.28	.28	
	4-25	FSL	1-12	3.5 - 6.0	0.6-6	1.0-10	.28	.28	
	25-35	UWB	---	---	0.01-20	---	---	---	
Peru, very stony	0-1	SPM	---	3.5 - 5.5	2-6	35-100	---	---	3
	1-3	SL	1-15	3.5 - 6.5	0.6-2	2.0-10	.24	.24	
	3-13	SL	1-15	3.5 - 6.5	0.6-2	1.0-9.0	.24	.24	
	13-27	SL	1-15	3.5 - 6.5	0.6-2	0.5-4.5	.37	.37	
	27-65	SL	1-15	4.5 - 6.5	0.06-0.6	0.0-0.3	.43	.43	
Wilmington, very stony	0-6	HPM	---	3.5 - 5.5	2-6	35-100	---	---	2
	6-7	SL	1-15	3.5 - 6.0	0.6-2	1.0-7.5	.32	.32	
	7-17	FSL	1-15	3.5 - 6.0	0.6-2	1.0-6.0	.32	.32	
	17-65	GR-FSL	1-15	5.1 - 6.5	0.06-0.6	0.0-0.3	.28	.49	

WATER FEATURES **SOIL FEATURES**

Soil name	Hydrologic group	Depth to seasonal high water table (Feet)	Flooding Frequency	Flooding Duration	Ponding Frequency	Ponding Duration	Hydric soil?	Depth to bedrock (range in inches)
Tunbridge, very stony	C	---	None		None		No	20-40
Peru, very stony	C	1.5-2.5	None		None		No	---
Wilmington, very stony	D	0.0-1.5	None		None		Yes	---

LAND USE LIMITATIONS **AGRICULTURAL YIELD DATA**

Soil name	Land use	Rating	Reason **	Crop name	Yield / acre
Tunbridge, very stony	Dwellings with basements:	Very limited	Depth to hard bedrock	Pasture	8.5 AUM
				Pasture	8.5 AUM
Wilmington, very stony	Dwellings with basements:	Very limited	Depth to saturated zone	Pasture	3 AUM

Peru, very stony	Dwellings with basements:	Very limited	Depth to saturated zone

WOODLAND MANAGEMENT

Soil name	Management concern	Rating	Reason	Vermont natural communities
Tunbridge	Harvest equip operability:	Moderately suited	0.1 to 3% surface cover fragments >=600mm (m bouldery)	Northern Hardwood Forest, Hemlock-Northern Hardwood Forest, Mesic Red Oak-Northern Hardwood Forest, Beech-Red Maple-Hemlock-Northern Hardwood Forest Variant, Hemlock Forest
Wilmington	Harvest equip operability:	Poorly suited	<30cm to water table for >=6mos	
Peru	Harvest equip operability:	Moderately suited	0.1 to 3% surface cover fragments >=600mm (m bouldery)	
Tunbridge	Road suitability:	Moderately suited	Rock fragments	
Wilmington	Road suitability:	Poorly suited	Wetness	
Peru	Road suitability:	Moderately suited	Rock fragments	
Tunbridge	Erosion hazard (off-road):	Slight		
Wilmington	Erosion hazard (off-road):	Slight		
Peru	Erosion hazard (off-road):	Slight		