

**139B: Sunapee fine sandy loam, 3 to 8 percent slopes**

The Sunapee component makes up 85 percent of the map unit. Slopes are 3 to 8 percent. This component is on hills on glaciated uplands, mountains on glaciated uplands. The parent material consists of loamy supraglacial meltout till derived from phyllite and/or granite and gneiss and/or mica schist. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is moderately well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is moderate. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 27 inches during January, February, March, April, May, November, December. Organic matter content in the surface horizon is about 6 percent. Nonirrigated land capability classification is 2e. This soil does not meet hydric criteria.

<u>Important farmland classification:</u> Prime	<u>Land capability:</u> 2 e	<u>Vermont Agricultural Value Group:</u> 3
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Vermont Residential Onsite Waste Disposal Group and Subgroup: IIh

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 the seasonal high water table is the primary concern. 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. In some cases, 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.

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
Sunapee	0-8	FSL	0-10	3.5 - 7.0	0.1-14	2.0-10	.32	.32	5
	8-17	GR-FSL	0-10	3.5 - 5.5	0.1-14	2.0-6.0	.20	.32	
	17-26	GR-FSL	0-10	3.5 - 5.5	0.1-14	1.0-3.0	.24	.43	
	26-38	GR-SL	0-10	3.5 - 6.0	0.1-100	0.0-2.0	.15	.28	
	38-65	GR-SL	0-10	3.5 - 6.0	0.1-100	0.0-1.0	.15	.28	

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		
Sunapee	C	1.5-3.0	None		None		No	---

LAND USE LIMITATIONS				AGRICULTURAL YIELD DATA	
Soil name	Land use	Rating	Reason **	Crop name	Yield / acre
Sunapee	Dwellings with basements:	Very limited	Depth to saturated zone	Corn silage	20 Tons
Sunapee	Pond reservoir areas:	Very limited	Seepage	Grass-clover	6 AUM
				Grass-legume hay	3 Tons

WOODLAND MANAGEMENT				
Soil name	Management concern	Rating	Reason	Vermont natural communities
Sunapee	Harvest equip operability:	Well suited		Northern Hardwood Forest, Red Spruce-Northern Hardwood Forest, Hemlock Forest
Sunapee	Road suitability:	Well suited		
Sunapee	Erosion hazard (off-road):	Slight		