203D: Peru-Marlow association, hilly, very stony

The Peru component makes up 45 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 ridges on glaciated uplands, knolls on glaciated uplands, hills on glaciated uplands. The parent material consists of coarse-loamy basal till. Depth to a root restrictive layer, densic material, is 16 to 33 inches.

The Marlow component makes up 35 percent of the map unit. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately low. This component is on ridges on glaciated uplands, knolls on glaciated uplands, hills on glaciated uplands. The parent material consists of coarse-loamy basal till. Depth to a root restrictive layer, densic material, is 14 to 35 inches.

Important farmland classification: NPSL	Land capability: 6 s	Vermont Agricultural Value Group: 10

Vermont Residential Onsite Waste Disposal Group and Subgroup: IIIe

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 slopes greater than 20 percent in some areas are the major limitations. A detailed, site-specific analysis is generally required. On-site groundwater level monitoring and determination of induced groundwater mounding is often necessary to establish the suitability of this unit. Curtain drains may help lower the water table to an acceptable level. There may be less-sloping areas within the unit that are suitable for siting a septic system, or, if feasible, cut and fill site modifications may produce an acceptable area within the unit. An erosion prevention and sediment control plan is required by the State for construction on sites over 20 percent slope.

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
Peru	0-3	GR-FSL	3-10	3.6 - 6.0	0.6-2	2.0-6.0	.17	.28	2
	3-17	GR-FSL	3-10	3.6 - 6.0	0.6-2	0.5-4.5	.20	.37	
	17-60	GR-SL	3-10	3.6 - 6.0	0.06-0.6	0.0-1.0	.17	.37	
Marlow	0-4	FSL	3-10	3.6 - 6.0	0.6-2	2.0-6.0	.24	.24	3
	4-23	FSL	3-10	3.6 - 6.0	0.6-2	0.5-4.5	.37	.37	
	23-60	GR-FSL	3-10	3.6 - 6.0	0.06-0.6	0.0-1.0	.20	.43	

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)
Peru	D	1.5-2.5	None		None		No	---
Marlow	C	2.0-3.5	None		None		No	---

LAND USE LIMITATIONS

Soil name	Land use	Rating	Reason **
Peru	Dwellings with basements:	Very limited	Depth to saturated zone
Marlow	Dwellings with basements:	Very limited	Slope
Peru	Pond reservoir areas:	Very limited	Slope
Marlow	Pond reservoir areas:	Very limited	Slope

AGRICULTURAL YIELD DATA

Crop name	Yield / acre

WOODLAND MANAGEMENT

Soil name	Management concern	Rating	Reason	Vermont natural communities
Peru	Harvest equip operability:	Well suited		Northern Hardwood Forest, Red Spruce-Northern Hardwood Forest, Hemlock Forest
Marlow	Harvest equip operability:	Well suited		
Peru	Road suitability:	Poorly suited	Slope	
Marlow	Road suitability:	Poorly suited	Slope	
Peru	Erosion hazard (off-road):	Moderate	Slope/erodibility	

Marlow	Erosion hazard (off-road):	Moderate	Slope/erodibility