403C: Brayton-Cabot-Pinnebog association, rolling, very stony

The Brayton component makes up 35 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 depressions on glaciated uplands, drainageways on glaciated uplands. The parent material consists of coarse-loamy basal till. Depth to a root restrictive layer, densic material, is 10 to 25 inches.

The Cabot component makes up 30 percent of the map unit. The natural drainage class is poorly drained. Water movement in the most restrictive layer is very low. This component is on drainageways on glaciated uplands, depressions on glaciated uplands. The parent material consists of coarse-loamy basal till. Depth to a root restrictive layer, densic material, is 12 to 24 inches.

The Pinnebog, undrained component makes up 25 percent of the map unit. The natural drainage class is very poorly drained. Water movement in the most restrictive layer is moderately high. This component is on swamps on glaciated uplands, bogs on glaciated uplands. The parent material consists of organic material. Depth to a root restrictive layer is greater than 60 inches.

Important farmland classification: NPSL	Land capability: 7 s	Vermont Agricultural Value Group: 10

Vermont Residential Onsite Waste Disposal Group and Subgroup: IIId

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 is the major limitation. 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.

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
Brayton	0-7	L	4-10	3.6 - 6.0	0.6-2	4.0-12	.37	.37	2
	7-15	GR-SL	4-10	5.1 - 6.5	0.6-2	0.5-2.0	.17	.37	
	15-60	GR-SL	4-10	5.6 - 7.3	0.06-0.6	0.0-0.5	.17	.37	
Cabot	0-6	GR-FSL	5-12	5.1 - 7.3	0.6-2	4.0-12	.17	.28	2
	6-12	FSL	3-8	5.1 - 7.3	0.6-2	0.5-4.0	.43	.43	
	12-60	GR-FSL	5-8	5.6 - 7.3	0-0.2	0.0-1.0	.20	.43	
Pinnebog, undrained	0-35	MUCK	---	5.6 - 7.8	0.2-6	40-90	---	---	2
	35-60	MPT	---	5.6 - 7.8	0.6-6	40-90	---	---	

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)
Brayton	D	0.0-1.5	None		None		Yes	---
Cabot	D	0.0-1.5	None		None		Yes	---
Pinnebog, undrained	A/D	0.0-0.5	None		Frequent	Very long (more than 3(days)	Yes	---

LAND USE LIMITATIONS

Soil name	Land use	Rating	Reason **
Brayton	Dwellings with basements:	Very limited	Depth to saturated zone
Cabot	Dwellings with basements:	Very limited	Depth to saturated zone
Pinnebog, undrained	Dwellings with basements:	Very limited	Ponding
Brayton	Pond reservoir areas:	Somewhat limited	Slope
Cabot	Pond reservoir areas:	Somewhat limited	Slope
Pinnebog, undrained	Pond reservoir areas:	Very limited	Seepage

AGRICULTURAL YIELD DATA

Crop name	Yield / acre

WOODLAND MANAGEMENT

Soil name	Management concern	Rating	Reason	Vermont natural communities

Brayton	Harvest equip operability:	Moderately suited	30-60cm to water table >=6mos	Spruce-Fir-Tamarack Swamp,Red Maple-Black Ash Swamp, Lowland Spruce-Fir Forest,Alder Swamp
Cabot	Harvest equip operability:	Moderately suited	30-60cm to water table >=6mos	
Pinnebog	Harvest equip operability:	Poorly suited	Low strength	
Brayton	Road suitability:	Moderately suited	Slope	
Cabot	Road suitability:	Moderately suited	Slope	
Pinnebog	Road suitability:	Poorly suited	Low strength	
Brayton	Erosion hazard (off-road):	Slight		
Cabot	Erosion hazard (off-road):	Slight		
Pinnebog	Erosion hazard (off-road):	Slight		