

CaA: Carlisle muck

The Carlisle, undrained component makes up 95 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 lake plains, bogs on lake plains. The parent material consists of organic material. Depth to a root restrictive layer is greater than 60 inches.

Important farmland classification: NPSL	Land capability: 5 w	Vermont Agricultural Value Group: 11
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Vermont Residential Onsite Waste Disposal Group and Subgroup: IVa

This unit is generally not 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. Excessive soil wetness in association with the minimal slope is the limiting condition. Prolonged periods of saturation at or near the soil surface do not allow for the proper functioning of septic systems.

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
Carlisle, undrained	0-66	MUCK	---	4.5 - 7.8	0.2-6	70-99	---	---	2

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		
Carlisle, undrained	A/D	0.0-0.5	None		Frequent	Very long (more than 30 days)	Yes	---

LAND USE LIMITATIONS				AGRICULTURAL YIELD DATA	
Soil name	Land use	Rating	Reason **	Crop name	Yield / acre
Carlisle, undrained	Dwellings with basements:	Very limited	Ponding		
Carlisle, undrained	Pond reservoir areas:	Very limited	Seepage		

WOODLAND MANAGEMENT				
Soil name	Management concern	Rating	Reason	Vermont natural communities
Carlisle	Harvest equip operability:	Poorly suited	Low strength	Red Maple-Black Ash Swamp, Red or Silver Maple-Green Ash Swamp, Alder Swamp, Pitch Pine Woodland Bog
Carlisle	Road suitability:	Poorly suited	Low strength	
Carlisle	Erosion hazard (off-road):	Slight		