Code:	GC54D79	Site Name:	Chippewa Trifecta
Coordinates:	Parking at Townline Road: N45	13.203 W091 21.416	
	Bench: N45 13.206 W091 21.	208	
	Sign: N45 13.222 W091 21.167		
	Channel: N45 13.156 W091 2	1.082	
Feature Type:	Ice Walled Lake Plain; Kettle Pond; Meltwater Channel		
Area	The Chippewa Moraine area has impressive high-relief hummocky topography		
Description:	with moraine that is more than 5 miles wide. This section of the Ice Age Trail		
	also has several other glacial feat	atures.	
Equipment:	GPS		
Educational	As you walk along the trail from	Townline Road, you will	come to:
Information:			

- 1. a bench overlooking a kettle pond, (Dumke Lake);
- 2. a sign identifying the area as an ice-walled lake plain; and
- 3. a dry melt-water channel.

A <u>kettle</u> is a depression in the land and is formed when a block of ice breaks away from a receding glacier. The ice then gets buried by glacial outwash. When the ice blocks eventually melt, kettle holes are left behind.

An ice-walled lake plain forms when the glacier acts as a container to hold water dammed in a complex of debris-covered ice. The lake sediment accumulates with finegrained sediment carried to the more central, deeper parts of the lake. Course sediment of sand and gravel accumulated around the edge of the lake as it slides off the surrounding ice. The lake sediment stands as a relatively flat-topped hill that is higher than the surrounding area when the ice walls containing the lake have completely melted away.



Many ice-walled lake plains have a dish-shaped surface with the course material deposited near the ice wall forming a rim ridge around the lake plain. They are commonly roughly circular areas of a mile or more across.

A <u>tunnel channel</u> is formed when a subglacial river cuts into the underlying glacial bed. Eventually, water under high pressure exited and cut a gorge or tunnel channel. In Wisconsin, such channels occur along the outermost edge of the late Wisconsin advance. The water flows that cut tunnel channels were apparently sudden, short-lived, and huge. They carry a large flow of glacial melt-water from beneath the ice creating broad troughs.

Resources:	Geology of the Ice Age National Scenic Trail; by David M. Mickelson, Louis J.	
	Mahler Jr., and Susan L. Simpson	
Logging	Observe the locations of the three features discussed in relation to each other.	
Requirements:	1. In what order do you think the kettle, ice-walled lake plain, and tunnel	
	channel were formed? Why?	
	2. Would an ice-walled lake plain be better or worse for farming than the	
	surrounding area? Why?	