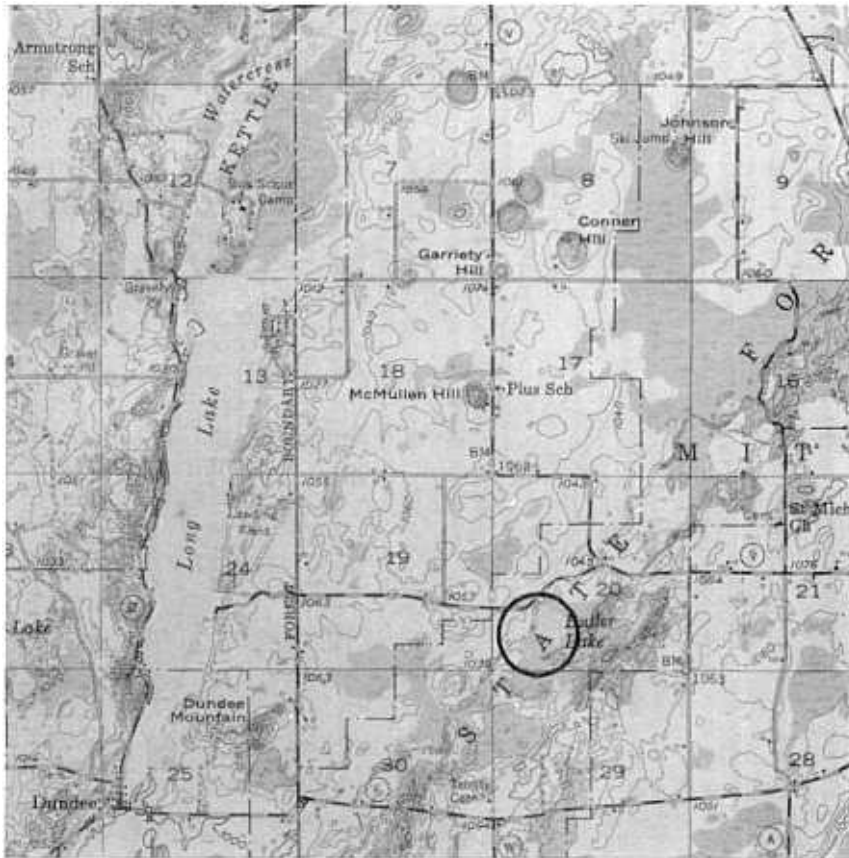


Title: Parnell Esker - Butler Lake

Location: SW 1/4, Sec. 20, T. 14 N., R. 20 E., Kewauskum 15' Quadrangle, Sheboygan County. Park in lot.



Author: David M. Mickelson

Description: Climb to the crest of the esker ridge and note the shape. As you can see in the gravel pit in the esker just north of here (Parnell Esker-gravel pit), the ridge is made up of stream deposited sand and gravel. The topographic expression also suggests a somewhat winding stream.

Significance: Streams don't deposit sands and gravels in a ridge so we must postulate that these materials were laid down when ice was on both sides of the ridge. In some places evidence indicates that many eskers are deposited in tunnels near the base of the glacier. What type of evidence could be used to document that the esker was deposited in a closed tunnel? Water flowed south through the Parnell esker tunnel. How can current direction be determined in stream deposited material? How might the formation of the esker relate to the formation of the kames to the north? To the kames and kettles in the east and west edges of the Kettle Moraine?

References: Alden 1918; Black, 1971, 1974