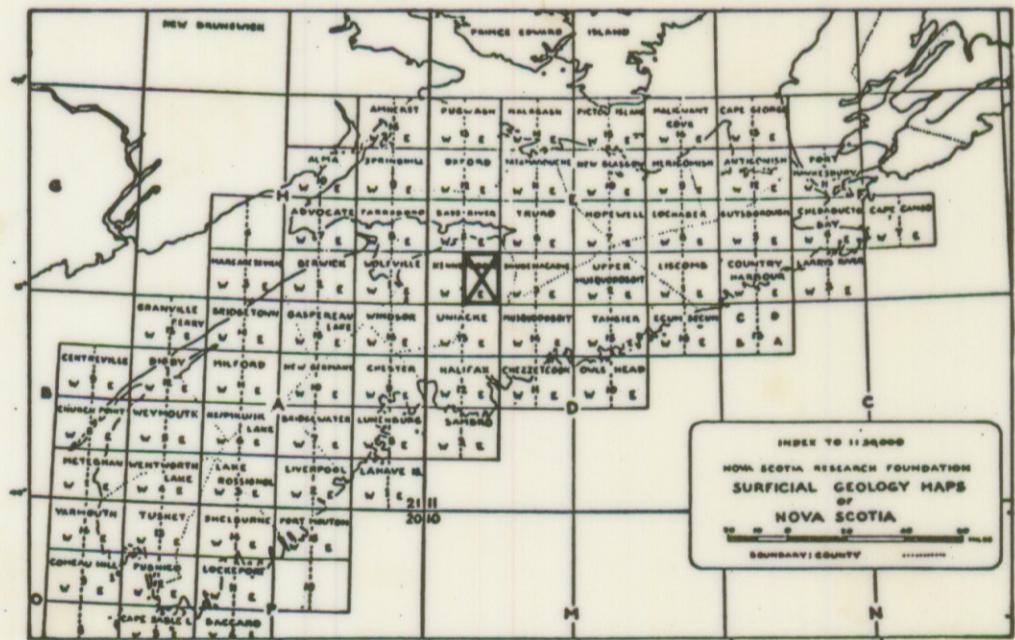


Geology by R.H. Mac Neill, 1956



## KENNETCOOK IIE/4E SURFICIAL GEOLOGY

SCALE 1:50,000  
1.25 inches to 1 mile approximately

NOVA SCOTIA RESEARCH FOUNDATION  
CORPORATION

### LEGEND

DRUMLIN & MORaine	
KAME	
ESKER	
DELTA	
TILL AREAS (undiff.)	
SWAMP	
ROADS & TRAILS	
STREAMS	
GLACIAL STRIAe	

### DESCRIPTIVE NOTES

The topography of the Kennetcook East Map Sheet area varies from a flatland in the Nine Mile River-to-Shubenacadie River area, collineous with relatively high hills in much of the remainder of the area. The Kennetcook and Nine Mile Rivers are underfit in their valleys.

### BEDROCK GEOLOGY

Rocks of the Cambro-Ordovician Meguma Group and the Mississippian Horton and Windsor Groups of the Carboniferous Period underlie the map area with the Carboniferous rocks predominating.

### GLACIAL DEPOSITS

#### Till and Drumlins

The topography of the Kennetcook area is generally mantled by till which varies from a mere veneer to several feet. Drumlins occur in the Nine Mile River area and in the Kennetcook region with occasional ones elsewhere. Other landforms are such as McPhee Corner and Georgefield. Those in the southern part indicate a general direction of the last major ice advance while those farther north appear to have been modified by late glacial processes. The drumlins are acting as a linear warp. The till surface reflects the bedrock of the locality and greater distance indicated except for some very small amounts of class from the coquenoids from the northeast which are conglomerates and conglomeratic sandstones which occur along the Minas Basin.

### Glaciofluvials

The region from Nine Mile River to the Shubenacadie Indian Reserve is one with a great deal of glaciofluvial material. Outwash sands occur in the area, indicating the presence of a shallow proglacial lake. The outwash plain appears to have been short-lived and the extent is not at all well defined. Water was ice-bound and moved toward the Shubenacadie River at the time the eskers were formed. In the Burin Brook area the eskers also indicate an eastward flow of meltwater. Three small kames appear just east of the Kennetcook and contain the only glaciofluvials exposed in that area.

The Kennetcook River occupies one of the parts of a deeply eroded channel now filled with gravel outwash from the wasting ice mass.