

HOLOCENE	
O	Organic deposits, undifferentiated: peat, muskeg, bog, variable thickness, may include glacioclastic sediments.
Ov	Colluvial veneer: sand and siltstone, <2 m thick, may form aprons, occurs in areas adjacent to sandstone on slopes, may form distinct traction bedding (horizontal, horizontal or low angle) or sandstone on slopes.
Ob	Colluvial blanket: siltstone, <2 m thick, derived from various sediments, may include some outcrops.
At	Alluvial fan sediments: sand and gravel, variable thickness, fan surface expression.
Ap	Alluvial floodplain sediments: sand and gravel, variable thickness, associated with small meandering streams and channels.
Al	Alluvial terrace sediments: sand and gravel, variable thickness, occur as terraces.
A	Alluvial sediments, undifferentiated: sand and gravel, variable thickness, may include various facies environments.
Lr	Lacustrine beach sediments: sand and gravel, variable thickness, associated with modern shorelines and raised beaches relating to previous lake elevations.
Ld	Lacustrine beach sediments: sand and gravel, variable thickness, beds active in present-day lakes.
Lv	Lacustrine veneer: sand and silt, <2 m thick, associated with present-day lakes and depressions.
Lb	Lacustrine blanket: sand and silt, <2 m thick, associated with present-day lakes and depressions.
L	Lacustrine sediments, undifferentiated: sand and silt, variable thickness, may include various lacustrine environments.
PROGLACIAL AND GLACIAL ENVIRONMENT	
Gl	Glacioclastic beach sediments: sand and gravel, variable thickness, associated with glacial lake shorelines and raised beaches relating to previous lake elevations.
GlV	Glacioclastic veneer: siltstone to sand, <2 m thick, may be a veneer over silt, may be associated with low lying areas often adjacent to organic deposits.
GlB	Glacioclastic blanket: sand and gravel, <2 m thick, associated with sandstone on mud ridges (enhanced white reflectivity on photos) and terraces along raised ridges.
GlC	Glacioclastic subaqueous moraine complex: siltstone and sand, variable thickness, with floor sediments that occur within the wind of glacial lakes, locally graded and may represent buried moraine depressions.
GL	Glacioclastic sediments, undifferentiated: sand and silt, variable thickness, may include various glacioclastic environments.
GfP	Glacioclastic alluvial plain sediments: sand and gravel, 8-30 m thick, associated with river valleys such as the Thelon River, may be terraced, may include various facies environments.
GfT	Glacioclastic terrace sediments: sand and gravel, variable thickness, occur as terraces.
GfV	Glacioclastic veneer: sand and gravel, <2 m thick, continuous to discontinuous.
GfB	Glacioclastic blanket: sand and gravel, <2 m thick, may include a variety of surface expressions.
GfR	Glacioclastic outwash fan sediments: sand and gravel, variable thickness, fan surface expression.
GfK	Kame terrace sediments: sand and gravel, 8-30 m thick, in the form of mounds, hummocks, various ridge features and circular ponds (boulders) surrounded by gravel ridges, may include evidence of stalling and flow with terrace base contours have sharp boundaries (on valley?) with adjacent till areas, and are also associated with areas of exposed bedrock.
GfH	Glacioclastic hummocky sediments: sand and gravel, variable thickness, irregular floor surface expression, hummocks have rounded tops.
GfE	Esker sediments: sand and gravel, variable thickness, forms ridges with both steep-sided and flat topped segments.
GfS	Glacioclastic sediments, undifferentiated: sand and gravel, variable thickness, may include various glacioclastic environments.
Tv	Till veneer: siltstone, <2 m thick, continuous to discontinuous with variable thickness, may include basal sandstone and linear erosional troughs (impagrows); may include smaller areas of silt blanket interspersed with large scale till ridges, transitional to rock.
Tb	Till blanket: siltstone, 3-15 m thick, continuous blanket forming a rolling, random ground moraine topography, generally without streamlined landforms, areas of occasional mounds of siltstone with organic peat.
Tp	Ridged till: siltstone, 4-25 m thick, in the form of anastomosing ridges, 5-10 m high, 100 m to 1 km long.
Th	Hummocky till: siltstone, variable thickness, forms irregular hummocks, may exhibit moraine ridges.
Tm	Moraine complex: siltstone, variable thickness, occurs where many small ridges are superimposed on silt, symbols identify small ridges.
Ts	Streamlined till: siltstone, 4-25 m thick, continuous and gently rolling topography, forms streamlined hills (streamlined and straight) modified in the direction of ice flow, rarely with a blunt steep up-glacier facing edge and a tapered down-glacier face, may include evidence of stalling and flow with terrace base contours have sharp boundaries (on valley?) with adjacent till areas, and are also associated with areas of exposed bedrock.
T	Till, undifferentiated: siltstone, variable thickness, may include various glacial sediments.

PRE-QUATERNARY

R Bedrock, undifferentiated: continuous to discontinuous bedrock, may contain 20-30% of veneer, bedrock structure often apparent in satellite or air, often exhibits glacially moulded bedrock features (fluted bedrock, notch moraines, cirque, rock domes).

Complex units: A multiple map-unit designator is used to record after a geological complex or a stratigraphic relationship. The first or overlying designator is the dominant material and determines the map unit colour.

Complex units: Where the surficial cover forms a complex pattern and the map units are too small to be mapped individually, a significant generalization of the bed polygon, a dot (•) is placed in the first dominant map unit designator from the less abundant secondary unit (e.g., T, S) to designate an overall unit (e.g., T•S) with some areas of S (fluted).

Stratigraphic relationship: A stratigraphic relationship is shown with a maximum of two map unit designators by a dash (—) (e.g., Gv/Tb designates glacioclastic veneer overlying till blanket).

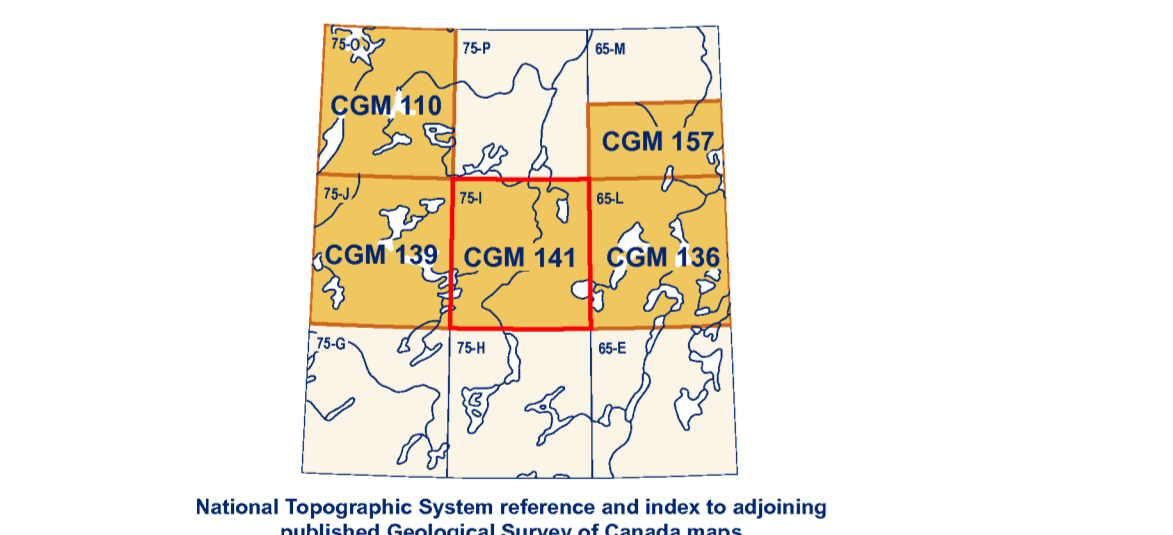
- Geological contact, defined
- Geological contact, approximate
- Delta-flow track
- Beach crest
- Fluvial terrace scarp
- Glacioclastic terrace scarp
- Glacioclastic terrace scarp
- Minor moraine ridge
- Major moraine ridge
- Buried esker ridge
- Esker, sense known
- Esker, sense unknown
- Buried drumlin ridge
- Buried drumlin ridge
- Drumlin (not always to scale)
- Drumlin (not always to scale)
- Cirque-ventral
- Large groove or trough, glacial location, sense unknown
- Fluted bedrock or drift, sense unknown
- Fluted bedrock (notch moraine), sense known
- Minor meltwater channel, sense unknown
- Minor meltwater channel, sense known
- Lateral meltwater channel
- Major meltwater channel
- Retrogressive flow line
- Patterned ground (ice wedge polygons)
- Bedrock seasonal fern (5-8m)
- Kettle
- Kame
- Stratification, sense unknown
- Stratification, sense known
- Small outcrop
- Station location - remote observation (stratigraphic section)

REFERENCES

Additional geographic data and associated metadata data from:
 - Geological Survey of Canada, 2014, 9732E, decreasing 21° annually. Readings vary from 9720E in the NE corner to 9750E in the SW corner of the map.
 - Geological Survey of Canada, 2014, 9732E, decreasing 21° annually. Readings vary from 9720E in the NE corner to 9750E in the SW corner of the map.
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Abstract

Reconnaissance mapping, through aerial photograph interpretation and limited field and loggy data in the Beaverhill Lake area, provides an understanding of surficial sediments and glacial history. The last major ice flow westward, indicated by glacially fluted landforms, through local minor southward and northward flows are recorded. An earlier area of deposition is a fluted till (streamlined) terrace and erosion trough observed locally. Major glacioclastic sediments include a veneer, terrace, fan, and a lacustrine blanket. The lacustrine blanket is a veneer of siltstone and sandstone, representing various phases of glacial Lake Thelon. Glacioclastic regression features occur around Beaverhill Lake and elsewhere, at and below 340 m a.s.l. The extensive melting sequence in the north-central region are remnants of the glacial lake, and occur at elevations up to 365 m or possibly higher. The lake sediments are replaced by organic, presumably undrained, glacioclastic sediments, and glacioclastic veneer over all, reflecting the uncertainty of glacioclastic sediment thickness and extent.



National Topographic System reference and index to adjoining published Geological Survey of Canada maps

CANADIAN GEOSCIENCE MAP 141
RECONNAISSANCE SURFICIAL GEOLOGY
BEAVERHILL LAKE
 Northwest Territories
 NTS 754
 1:125 000

