

# CANADIAN GEOSCIENCE MAP 330



## Geological Survey of Canada Canadian Geoscience Maps



Canada

Author: Geological Survey of Canada  
Geology by R.D. Thomas (east half) and A.S. Dyke (west half), 1976, 1977  
Geological compilation by R.D. Thomas, 1981  
Geology conforms to Surficial Data Model v. 2.3 (Deblonde et al., 2017).  
Data conversion by D.E. Kerr, 2012, 2016  
Geology has been spatially adjusted to fit the updated base.  
Geomatics by QSP Geographics Inc. and C. Lai

## SURFICIAL GEOLOGY WOODBURN LAKE

Nunavut  
NTS 56-E  
1:250 000

5 0 5 10 15 20 km

Cartography by D. Viner  
Scientific editing by A. Weatherston  
Initiative of the Geological Survey of Canada, conducted under the auspices of Natural Resources Canada's Geo-mapping for Energy and Minerals (GEM) Program  
Map projection Universal Transverse Mercator, zone 15  
North American Datum 1983  
Base map at the scale of 1:250 000 from Natural Resources Canada, with modifications  
Elevations in metres above mean sea level

Mean magnetic declination 2018, 5°21'W, decreasing 2.1' annually  
Readings vary from 3°28'W in the SW corner to 7°19'W in the NE corner of the map.

This map is not to be used for navigational purposes.

The Geological Survey of Canada welcomes corrections or additional information from users.

Data may include additional observations not portrayed on this map. See map info document accompanying the downloaded data for more information about this publication.

This publication is available for free download through GEOSCAN (<http://geoscan.nrcan.gc.ca/>).

QUATERNARY	
<b>NONGLACIAL ENVIRONMENT</b>	
Ap	Alluvial sediments: silt, sand, and fine gravel; moderately to well sorted but commonly interstratified with beds of distinctly different grain sizes; cross-bedding, scour-and-fill structures, and ripple marks common; up to 5 m thick.
At	Floodplain sediments: silt, sand, and fine gravel; variable thickness; active, seasonally flooded; unvegetated.
<b>PROGLACIAL AND GLACIAL ENVIRONMENT</b>	
<b>GLACIOLACUSTRIAL SEDIMENTS</b> : silty fine sand to gravelly coarse sand; poorly sorted and stratified; generally 1 to 2 m, but up to 10 m thick; deposited in proglacial lakes.	
GLr	Beach sediments: sand, with well developed cross-stratification; variable thickness; occurs as beaches and terraces.
GLn	Littoral and nearshore sediments: sand, with well developed cross-stratification; commonly less than 1 m thick; occurs as beaches and terraces overlying bedrock.
Gfc	Glaciolluvial sediments: sand and gravel; massive to stratified; variable thickness; water-sorted sediments deposited as a result of meltwater flow.
Gfv	Glaciolluvial ice-contact sediments: sand and gravel; irregular to cross-stratified with poor to moderate sorting; up to 30 m thick; occurs as ice-contact deltas, sinuous ridges, isolated hummocks, local blanket deposits, and esker and kame complexes.
GF	Glaciolluvial veneer: sand and gravel; irregular to cross-stratified with poor to moderate sorting; commonly less than 1 m thick; overlying bedrock; occurs as ice-contact deltas, sinuous ridges, isolated hummocks, local blanket deposits, and esker and kame complexes.
Tv	Glaciolluvial sediments, undifferentiated: sand and gravel; massive to well sorted and sorted with smooth, flat to inclined surfaces; up to 70 m thick; occurs as deltas, fans, or terraced valley-fill deposits.
Tb	<b>GLACIAL ENVIRONMENT</b> Till veneer: silty, gravelly sand diamictite; commonly less than 1 m thick; overlying bedrock; when lag deposit overlay is present, the upper metre of till is abnormally sandy due to either removal of fines by wave action or intermixing of marine, glaciolacustrine, or glaciolluvial sand.
R	Till blanketed: silty, gravelly sand (diamictite) with less than 10% clay; boulders up to 2 m long common on the surface; nonsorted, nonstratified, compact but unlithified; generally 7 m up to 20 m thick; occurs mainly as blanket on underlying bedrock or as hummocks and ridges (moraines); where reworked sediment overlay is present, the upper metre is abnormally sandy due to either removal of fines by wave action or intermixing of marine, glaciolacustrine, or glaciolluvial sand.
Pre-Quaternary	
R	Bedrock, undifferentiated: Precambrian igneous and metamorphic crystalline rock of variable composition and structure.
Reworked sediments, on till veneer	
Complex units: two map-unit designators are used in cases where the surficial cover forms a complex area and the map units are too small to be mapped individually, yet constitute a significant areal extent of the total polygon (e.g. Tv.R designates an area of till veneer with numerous small outcrops). In such instances a dot (.) is used to separate the map-unit designator.	
Stratigraphic relationship: a stratigraphic relationship is shown with two map-unit designators separated by a slash (/) (e.g. GFv/R designates glaciolluvial veneer overlying bedrock).	
K	Kettle
Geological contact, defined	
Minor meltwater channel:	
—	Paleocurrent direction unknown
—	Paleocurrent direction known
Moraine ridge:	
Minor	Minor
Major	Major
Esker, paleocurrent direction known	
—	Drumlinoid, length not mapped to scale
—	Crag-and-tail, length not mapped to scale
Striation:	
—	Ice flow poorly defined, direction known
—	Ice flow well defined, direction unknown
—	Ice flow well defined, direction known
—	Crossed (1 = older, 2 = younger)
Station location:	
♦	Remote observation
○	Ground observation
●	Till sample location

Recommended citation:  
Geological Survey of Canada, 2018. Surficial geology, Woodburn Lake, Nunavut, NTS 56-E; Geological Survey of Canada, Canadian Geoscience Map 330 (Surficial Data Model v. 2.3 conversion of Map 3-1981), scale 1:250 000. <https://doi.org/10.4095/305983>

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