



QUATERNARY

HOLocene

NONGLACIAL ENVIRONMENT

Organic deposits, undifferentiated: peat and muck up to 2 m thick, formed predominantly by the accumulation of vegetative material in bogs; occurs in depressions and along valley bottoms; permafrost is commonly present; contains small pebbles, ice-wedge polygons, and thermobaric collapse structures; small pebbles organic deposits occur in most terrain units.

PLEISTOCENE (WISCONSIN GLACIATION)

GLACIAL ENVIRONMENT

GLACIOFLUVIAL SEDIMENTS: sand, gravel, and minor silt more than 1 m thick, sorting ranges from good to poor, and stratification from massive or cross-stratified to planar bedded; deposited by water flowing from, or in contact with, glacial ice.

Subaerial outwash fan sediments: rounded gravel and sand; massive to cross-stratified; probably less than 5 m thick; occurs as braided fans.

Escher sediments: sand, silt, and gravel, in planar, cross-stratified, and massive beds; 1 to 40 m thick; forms ridges with both sharp crests and faceted segments, mounds, and flanking aprons; deposited at or behind the ice margin; formed subglacially or in a subglacially exposed scoured channel; zones of washed rock, small transverse gravel ridges associated with the unit, isolated lense deposits are shown by symbols.

GLACIAL SEDIMENTS (TILL): unsorted glacial debris (diameters), consisting of a silt and matrix containing pebbles, cobbles, and boulders, with minor lenses of sorted sediments; deposited beneath, or along the margin of, glaciers as lodgement till, melt-out till, and gravity flow deposits.

Till veneer: less than 2 m thick; rock structure is generally visible on outcrops; unit includes patches of bedrock and silt blanket.

Till blanket: from 2 to 10 m thick; occurs as silt plains mimicking bedrock topography or as drumlins; small rock outcrops in this unit are shown by symbols.

Hummocky till: from 5 to 30 m thick; forms irregular to rolling terrain with relief up to 15 m; some areas have abundant small meltwater channels and lag concentrations of boulders in depressions.

PRE-QUATERNARY

BEDROCK: Precambrian granitic, gneissic, metasedimentary and metamorphic rocks, mafic dykes and minor, younger (Tertiary) kimberlite may include patches of till veneer or glaciofluvial sediments; areas of truncated and foot-heaved rock (felsenmeer), particularly on metasediments, are designated by symbols.

R2

Igneous bedrock: volcanic, granitic.

R3

Metamorphic bedrock: metasedimentary rocks.

Felsenmeer, foot heaved and shatterd rock

Washed scoured lag

Concentration of glacially abraded boulders

Geological contact, defined

Beach crest, raised beach

Minor meltwater channel, sense known

Major moraine ridge

Escher ridge, sense known

Escher ridge, sense unknown

Drumlinoid

Crag and tail

Futed bedrock, sense known

Thermobaric depression

Patterned ground, ice wedge polygon

Kame, gravelly transverse ridge

Stratification (poorly defined, ice flow direction unknown)

Stratification (poorly defined, ice flow direction known)

Stratification (well defined, ice flow direction unknown)

Stratification (well defined, ice flow direction known)

Ice-flow measurement: crossed area (1 = oldest, 4 = youngest)

Small outcrop

Station location

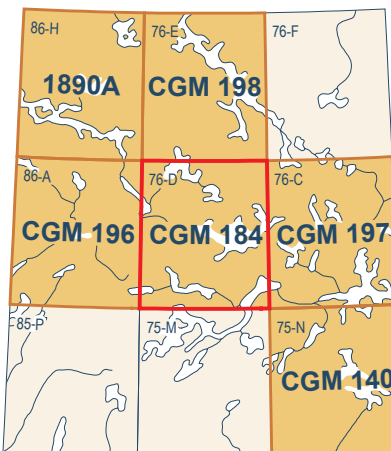
Sample location

Abstract

This new surficial geology map product represents the conversion of A-Series Maps 1870A and its legend and the National Topographic System reference index to adjoining published Geological Survey of Canada maps.

Résumé

Ce nouveau produit de carte de géologie de surface 1870A et sa légende, ainsi que l'index de référence du système topographique national, ont été convertis en un produit numérique au format de données de base de données géologiques (GDB) version 2.0 de la Commission géologique du Canada. Ce produit numérique est disponible en format de données de base de données géologiques (GDB) version 2.0 de la Commission géologique du Canada. La connaissance de toutes les données de la carte 1870A se retrouvent dans le GDB.



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

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Canada Natural Resources Canada Ressources naturelles du Canada

CANADIAN GEOSCIENCE MAP 184
SURFICIAL GEOLOGY
LAC DE GRAS
Northwest Territories
NTS 76-D
1:125 000



Preliminary

Canadian Geoscience Maps

ess.nrcan.gc.ca

Preliminary

Author: Geological Survey of Canada

Geology by B.C. Ward, L.A. Drope, and D.E. Kern, 1997

Geology conforms to Surficial Data Model v. 2.0

Data conversion by D.E. Kern and S. Eagles, 2012-2013

Geology has been spatially adjusted to fit the updated base

Geomatics and cartography by M. Kemmer and R. Chan

Preliminary

Initiative of the Geological Survey of Canada, conducted under the auspices of the T1 Territorial Surficial Database Project as part of Natural Resources Canada's Geo-mapping for Energy and Minerals (GEM) program

Map projection: Universal Transverse Mercator, zone 12

North American Datum 1983

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CANADIAN GEOSCIENCE MAP 184

SURFICIAL GEOLOGY

LAC DE GRAS

Northwest Territories

NTS 76-D

1:125 000

2 0 2 4 6 8 10 km

Preliminary

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 2014, 1928E, decreasing 20' annually

Readings vary from 10°15'E in the NW corner to 14°32'E in the SE corner of the map.

See documentation accompanying the data

See documentation accompanying the data

See documentation accompanying the data

Preliminary

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

Data may include additional observations not portrayed on this map.

See documentation accompanying the data

See documentation accompanying the data

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Preliminary publications in this series have not been scientifically edited.

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