

Coloured legend blocks indicate map units that appear on this map

QUATERNARY

SURFICIAL DEPOSITS

POST LAST GLACIATION

NONGLACIAL ENVIRONMENTS

ORGANIC DEPOSITS: peat, 1 to 2 m thick, formed by the accumulation of vegetation in poorly drained depressions (swamps and bogs); produces fire, wet terrain

Bog peat: Sphagnum or forest peat formed in an ombrotrophic environment; may be trenched or freest with a cover of encrusting shrubs; hummocky, wet terrain, in places underlain by ground ice. Oh, undifferentiated bog and fen deposits, D

Peat peat: peat derived from sedges and partially decayed shrubs in a eutrophic environment; forms relatively open peatlands with a mineral-rich water table that persists seasonally near the surface; often covered with low shrubs and sometimes a sparse layer of trees

COLLUVIAL DEPOSITS: mass wasting debris <1-100 m thick, associated to poorly sorted, massive to stratified debris deposited by direct, gravity-induced movement

Landslide debris: active and inactive landslides, undivided, C; hummocky topography, Ch

Talus (scree): accumulation of angular boulders below cliffs; usually forming fans or aprons

Rock glaciers: inactive rock glaciers; rock debris deformed by the flow of buried or interstitial ice, forming ridges and furrows

Colluvial veneer: thin cover of rock debris <1 m; usually the product of soilification acting on lower slopes

ALLUVIAL DEPOSITS: sorted gravel, sand, and organic detritus deposited by flowing water

Fluvial deposits: sorted gravel and sand >1 m thick; forming active flood plains with meander channels and sand marks; Ag, alluvial fan deposits, poorly sorted gravel and sand >1 m thick. Alluvial fan deposits, poorly sorted gravel and sand >1 m thick. Alluvial fan deposits, poorly sorted gravel and sand >1 m thick. Alluvial fan deposits, poorly sorted gravel and sand >1 m thick. Alluvial fan deposits, poorly sorted gravel and sand >1 m thick.

Alluvial veneer: deposits too thin to mask the underlying surface, <1 m thick

Fluvial terraces: inactive; alluvial fan terraces, Alt

LACUSTRINE DEPOSITS: sand, silt and minor clay deposited in a former lake; generally overlain by organic deposits; exposed by recent fluctuations in lake levels

POSTGLACIAL OR LATE WISCONSINAN

PROGLACIAL AND GLACIAL ENVIRONMENTS

GLACIOLACUSTRINE DEPOSITS: fine sand, silt, and clay, deposited in glacial-dammed lakes in valleys or along the margin of the retreating Laurentide Ice Sheet

Glaciolacustrine deposits: sediment >1 m thick; usually overlain by organic deposits in lowlands with level topography; hummocky topography, Lh

Glaciolacustrine veneer: discontinuous cover of lacustrine sediment, usually <1m thick

GLACIOLUVIAL DEPOSITS: proglacial outwash, gravel and sand with minor diameters deposited in front of the ice margin; usually 1-10 m thick; forming distal outwash terraces, Gt; proximal kettled outwash terraces, Gk; glacioluvial fan terraces, Gf

TILL: nonsorted debris deposited directly by glaciers; matrix is sandy to clayey and contains striated clasts of various lithologies, including many Canadian Shield erratics in the bedrock

Till blankets: >1 m thick; forming undulating topography that may be fluted and drummized in places; contains Canadian Shield erratics, moraines or crevasse fans forming a ridged topography, Tr; hummocky moraine, Th

Till veneer: <1 m thick and discontinuous; underlying bedrock topography is discernible

PRE-QUATERNARY BEDROCK

R Sedimentary bedrock, R; two prominent ridges of the Liard Range expose Paleozoic to Mesozoic rocks forming northward trending cliffs; extensively gullied outcrops exposed along river banks, Rg

Rw Rubble covered bedrock surfaces

NOTE: In areas where the surficial cover forms a complex pattern, the area is coloured according to the dominant unit and labelled in descending order of cover

Geological boundary (defined, gradational)

Small swamp or bog

Landslide (arrow indicates the direction of movement)

Abandoned meltwater channel or channel occupied by an underflow stream (large, small and direction of flow inferred, small and direction of flow not inferred)

Lateral meltwater channel, barb on the uphill side

Escarpment

Kettle

End moraine

Minor moraine or crevasse filling

Ice moulded form in bedrock and/or till (direction of flow inferred, not inferred)

Steepe

Cirque; cirques, peaks and sharp ridges formed by glacial erosion

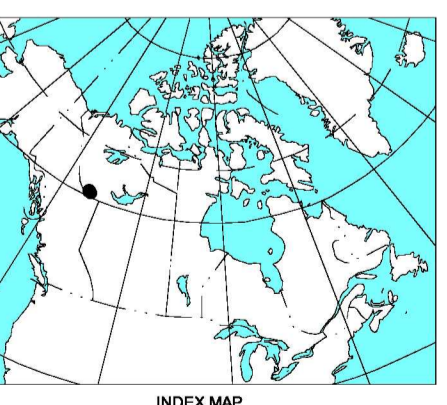
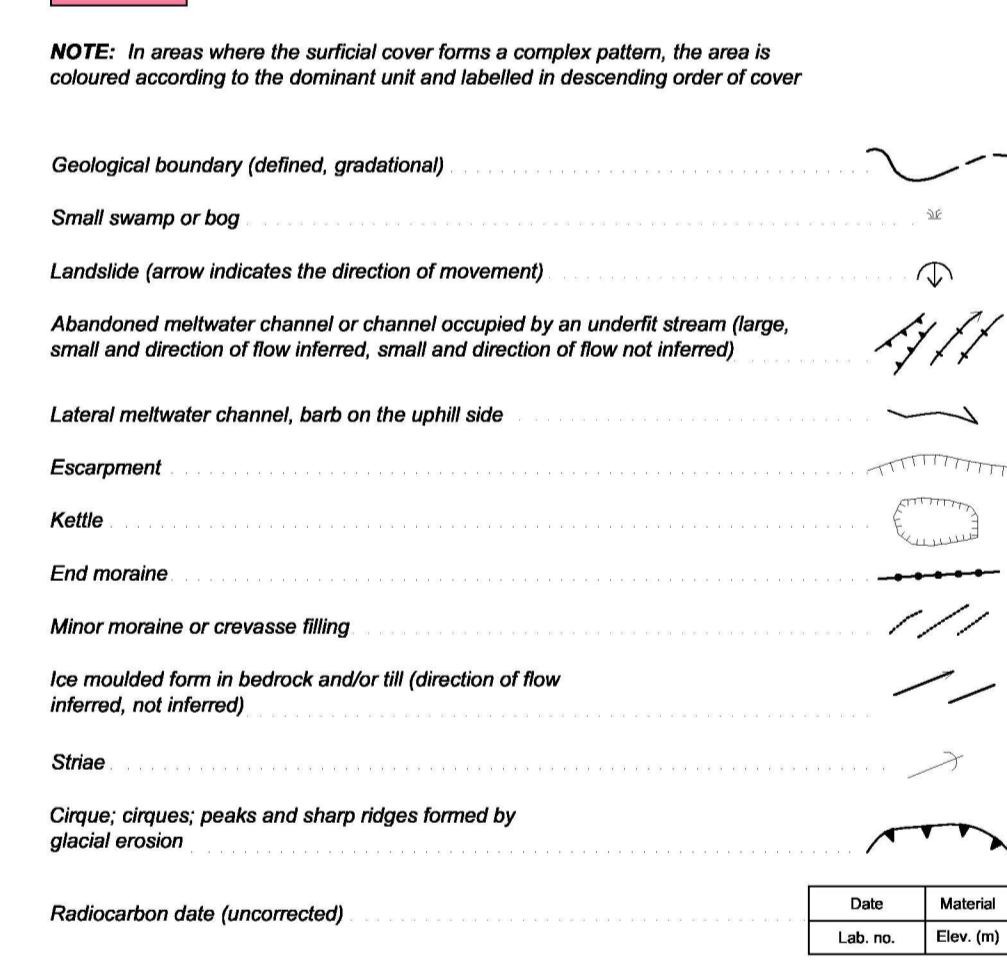
Radiocarbon date (uncorrected)

REFERENCES

Matthews, J.V., Jr. 1960. Paleogeology of John Klondike Bog, Fisherman Lake region, southwest District of Mackenzie. Geological Survey of Canada, Paper 80-22.

Miller, J.F.V. 1956. Archeology of Fisherman Lake, western District of Mackenzie, N.W.T., unpublished Ph.D. dissertation, University of Calgary, 496 p.

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CONTOUR INTERVAL, 50 FEET / Intervalle de courbes, 15 mètres

Scale 1:50 000 Echelle

OPEN FILE 4360
SURFICIAL GEOLOGY
FISHERMAN LAKE
NORTHWEST TERRITORIES - YUKON TERRITORY - BRITISH COLUMBIA

Geology by J. Bednarski, 2000, 2001
Geological compilation and digital cartography by J. Bednarski, 2002

This is a product of the Central Foreland NATMAP Project
Any revisions or additional geological information from the user would be welcomed by the Geological Survey of Canada

95 C0 Chinook Creek	95 B12 Mount Flatt	95 B13 Sawmill Mountain
95 C8 Baldie Mountain	95 B5 Fisherman Lake	95 B6 Fisherman Lake
95 C1 Mount Martin	95 B4 Betalamas Lake	95 B3 Fort Liard

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