

LEGEND

This legend is common to Open Files 3899 and 3900. Coloured legend blocks indicate map units that appear on this map. Not all map symbols shown in the legend necessarily appear on this map.

SURFICIAL DEPOSITS

QUATERNARY

HOLOCENE

FLUVIAL SEDIMENTS: alluvium; gravel and sand, 2-20 m thick, forming active and relict deposits

Ap Alluvial plains: gravel and sand, 2-10 m thick, forming braided floodplains, submerged at peak nival flood

At Alluvial terraces: gravel and sand, 5-20 m thick, forming terraces above modern flood levels

Af Alluvial fans: gravel and sand, 2-5 m thick; intermittently active surfaces

HOLOCENE AND LATE WISCONSINAN

MARINE AND GLACIAL MARINE SEDIMENTS: gravel, sand, silt, and clay, 1-20 m thick, deposited in offshore, deltaic and beach environments during deglaciation and during regression of the postglacial sea

Mr Beach sediments: gravel and sand, 1-5 m thick, forming ridges and swales

Mt Deltaic sediments: clay, silt, sand, and gravel, 5-20 m thick, forming coarsening upward sequences under terraces

Mv Offshore proglacial silt veneers: silt, clay silt, and fine sand with dropstones, 1-2 m thick

Mb Offshore proglacial silt blankets: silt, clay silt, and fine sand with dropstones and minor gravel, 2-10 m thick, deposited in part as moraine banks and comprising parts of end moraine systems

LATE WISCONSINAN

GLACIAL LACUSTRINE SEDIMENTS: clay, silt, sand, and minor gravel, 1-2 m thick, deposited in small glacier dammed lakes

Lv Proglacial silt veneers

GLACIOFLUVIAL SEDIMENTS: gravel and sand, 1-60 m thick, deposited behind, at, and in front of the ice margin

Gp,t,f Proglacial outwash: gravel and sand, 1-30 m thick, forming braided, relict floodplains; Gp: terraces, Gt; and fans, Gf

Gr,h Ice contact stratified drift: gravel and sand, 2-60 m thick, possibly ice cored, forming individual conical kames and large, kettled kame complexes comprising parts of end moraine belts, Gh; and sharp-crested end moraine ridges, Gr; deposited contemporaneously with contiguous Tmp units

TILL: nonsorted stony muds, 0.5-60 m thick, deposited in subglacial and ice marginal environments; lithic composition generally reflects underlying carbonate bedrock but shield erratics common

Tmp End moraines: 5-60 m high ridges and hummocks; comprised of debris-rich, relict glacier ice marked by till, extensively kettled and characterized by large ice-wedge polygons; in places overridden and partly remoulded by glacier ice during a readvance, TmpO; probably interfingering with Gh and Mb, the other major components of end moraine systems

Tb Till blanket: 2-20 m thick forming an undulating blanket, commonly drumlinized or fluted

Tv Till veneer: 0.5-2 m thick and discontinuous

BEDROCK

PRE-QUATERNARY

R ROCK: Paleozoic carbonate rocks, glacially scoured during the Quaternary and frost shattered during postglacial time; outcropping mainly on hilltops, on slopes stripped bare by ice marginal meltwater streams, and in low, relict, sea cliffs in raised beach terraces

- Geological boundary (defined, approximate)
- Pingo
- Marine limit shoreline with elevation (defined, approximate)
- Marine limit elevation (without shoreline feature)
- Lateral meltwater channel; barb on upslope side
- Subglacial and proglacial meltwater channel
- De Geer moraines
- Kame
- Ice contact face
- Lateral moraine
- End moraine
- Drumlin and fluting
- Ice moulded bedrock
- Cliff in bedrock
- Radiocarbon date (location known, approximate)
- Fossil collection of marine shells (s), bowhead whale bone (b), driftwood (w), hearth charcoal (c) or archaeological faunal remains (a), with field number

Geology based on field work by A.S. Dyke and J.M. Saville, 1998 and on airphoto interpretation by A.S. Dyke; some radiocarbon dates from Sharpe (1992; GSC Memoir 434)

Digital cartography by M.M. Proulx, Earth Sciences Sector Information Division (ESS Info)

Any revisions or additional geological information known to the user would be welcomed by the Geological Survey of Canada

Digital base map from data compiled by Geomatics Canada, modified by ESS Info

Proximity to the North Magnetic Pole causes the magnetic compass to be erratic in this area. Magnetic declination 2000, 32°38' E, decreasing 43.5' annually. Readings vary from 31°45' E in the SE corner to 33°28' E in the NW corner of the map

Elevations in feet above mean sea level

Radiocarbon dates are reported according to the reporting protocols of the various laboratories. All dates on terrestrial materials are normalized to the -25 per mil PDB standard. However, dates on marine materials are reported inconsistently. GSC marine dates are reported with a 400 year reservoir correction. TO and CAMS dates are reported without a reservoir correction. S dates are reported without normalization and without a reservoir correction.



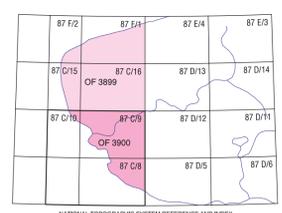
OPEN FILE 3900
SURFICIAL GEOLOGY
LADY RICHARDSON BAY AREA
VICTORIA ISLAND
NUNAVUT

Scale 1:100 000 / Échelle 1/100 000

kilomètres 2 0 2 4 6 8 kilomètres

Universal Transverse Mercator Projection
North American Datum 1983
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Projection transverse universelle de Mercator
Système de référence géodésique nord-américain, 1983
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