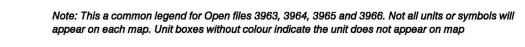


LEGEND



HOLOCENE ALLUVIUM: Modern floodplain deposits; silt, sand; and gravel with organic fragments and lenses; includes all areas that are inundated during normal overbank flooding;

surfaces may be scarred by abandonned channels; commonly terraced BOG AND SWAMP DEPOSITS: Silt, woody peat, and gyttja; common in undrained

depressions; less frequent in kettle depressions due to permeable nature of ice-contact deposits

PLEISTOCENE (WISCONSINAN)

UNDIFFERENTIATED: sand, silt, and clay, deposited in ice-contact or proglacial lakes; thickness varies from less than 1 to 10's of metres and glaciolacustrine surfaces may either mimic or mask topography of underlying bedrock

DEEP BASIN DEPOSITS: laminated clay, silt, and sand; fine-to medium-grained sand, massive to micro-crosslaminated; commonly exhibits flow folding and high angle reverse faults; may form depositional terraces rimming modern lakes

DELTAIC DEPOSITS: coarsening upward sequences of clay, silt, sand, and gravel; 10's of metres thick with planar upper surfaces and steeply dipping foreslopes; internal structure characterized by large scale foreset crossbedding

ICE-CONTACT DEPOSITS: silt and fine sand to coarse cobble gravel and diamicton; may be arranged in fining upward sequences composed of a cobble gravel core, overlain in turn, by plane to tabular crossbedded granular sand, ripple drift crosslaminated fine sand and silt, capped by laminated sand, silt, and clay, interpreted as deposits of ice-marginal subaqueous fans; may form perched terraces flanking valley walls, esker beads or complete valley-fill sequences

GLACIOFLUVIAL SEDIMENT

PROGLACIAL DEPOSITS (OUTWASH): undifferentiated valley train deposits 1 to 10's of metres thick; frequently composed of coarsening upward sequences characterized by ripple drift crosslaminated and graded silt and fine sand near the base, overlain by plane to crossbedded sand, gravel, and cobble gravel; bedding may be contorted and frequently is cut by high angle reverse faults; forms planar depositional surfaces (occasionally slightly pitted) or may form depositional terraces rimming modern lakeshores

ICE-CONTACT DEPOSITS: interstratified complex of sand, gravel, and diamicton; bedding often chaotic and cut by both high angle reverse faults and normal faults; may contain minor glaciolacustrine deposits; subdivided on the basis of morphology

ESKERS: sinous ridges trending subparallel to ice-flow, thickness up to 10 to 20 m, maximum length about 2 km

KAME AND KAME TERRACE: hummocky stagnant ice deposits; thickness variable ranging up to 10 to 15 m; commonly forms thin (1-2 m) discontinuous veneer on bedrock; includes all perched ice-contact glaciofluvial deposits that form isolated pockets flanking valley sides; terracing is frequently indistinct

TILL AND RELATED DEPOSITS: Chiefly unsorted debris containing erratics, deposited beneath or in the terminus regions of the ice sheet; textural properties average 80% sand, 17% silt, and 3% clay; boulder content variable, commonly approximately 10% but ranges up to 30%; mechanism and environment of deposition variable, ranging from deposition directly from glacier ice, to sediment flow deposition in the ice-marginal and sub-ice environments

FLUTED AND DRUMLINOID TERRAIN: thickness variable ranging up to 8 to 10 m GROUND MORAINE: thickness variable, commonly 2 to 3 m thick but up to 10 m in topographic lows; topography of the bedrock surface and bedrock structure control

THIN DRIFT ON BEDROCK: thickness variable, commonly less than 1 m but ranging up to several meters in topographic depressions; may include minor glaciofluvial and

glaciolacustrine deposits; amount of be bedrock outcrop varies from 0 to 25% PRE-QUATERNARY

Composed predominantly of granitic gneisses and migmatitic intrusives, gneissic meta-sediments, and marbles; minor outcrop of Paleozoic lithologies; Paleozoic/Precambrian contact symbolized: exposed surfaces frequently smoothed

and moulded by glacial abrasion; surfaces are commonly etched and pitted obscuring striation, however these are preserved locally; bedrock topography consists of rock knobs and undrained depressions; local relief averages 70 to 125 m; small pockets of glacial and proglacial sediment may occupy topographic lows; amount of bedrock

Limit of lacustrine submergence (inferred)

Geology by C.A. Kaszycki, 1981-83

Geological compilation by C.A. Kaszycki, 1988

Digital cartography by R.L. Allard, Earth Sciences Sector Information Division (ESS Info)

This map was produced from processes that conform to the ESS Info Publishing Services Subdivision Quality Management System, registered to the ISO 9001: 2000 standards

Any revisions or additional geological information known to the user

would be welcomed by the Geological Survey of Canada

31 E/2

31 D/10

NATIONAL TOPOGRAPHIC SYSTEM REFERENCE AND INDEX TO ADJOINING GEOLOGICAL SURVEY OF CANADA MAPS

Mean magnetic declination 2003, 11°37'W, increasing 0.7' annually

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

Elevations in metres above mean sea level

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