

LEGEND

Coloured legend blocks indicate map units that appear on this map only.

Notes regarding compound units: Where surficial geology types are interspersed in patches or patterns too small to be discerned at the scale of mapping, the proportion of each surficial geology component is given (in descending order) by a compound unit designation. The relationship between these components is represented by a symbol between the individual components as follows:

- overlying (i.e. stratigraphic relationship).
- . approximates 50% cover for each surficial geology type in the label.
- / approximates 70% to 30%.
- // approximates 90% to 10%.

Example: Tb/R approximates 70% till blanket and 30% bedrock coverage.

Note: When veneers form the dominate coverage of a compound unit, a hatch-fill is used in combination with the secondary unit.

QUATERNARY
HOLOCENE

	Snow: Snow cover visible on ca. 1958 aerial photographs such that surficial geology could not be distinguished.
	Ice (ca. 1958): Glacial ice cover from ca. 1958 AD aerial photographs. Thickness is variable.
	Ice (ca. 2000): Glacial ice cover identified from ca. 2000 Landsat-7 coverage. Thickness is variable.
	Eolian veneer: Thin, discontinuous sheets of well sorted, massive silt and sand deposited by wind. Hatch-fill is used when the veneer is the dominant proportion of a compound unit. Thickness is less than 1 m.
	Eolian blanket: Well sorted, massive silt and sand deposited by wind. Typically forms gently rolling geomorphology marked by dunes. Thickness is less than 5 m.
ALLUVIUM: Predominantly composed of sorted and commonly stratified gravel, sand, minor silt, and organic detritus deposited by post-glacial fluvial processes. Fan deposits may include gravelly diamictons.	
	Alluvial plain/terraces: Typically forms a single level (i.e. a plain) within approximately 1 m of the active stream channel or may form terraces separated by scarps. Thickness ranges from 1 to 10 m.
	Alluvial veneer: Thin, discontinuous deposit. Thickness is less than 1 m.
	Alluvial fan: Forms fan-shaped landforms that exhibits a steep gradient from the apex to the toe of the deposit. Thickness can reach up to 10 m.
	Alluvial complex: Consists primarily of alluvial units but may contain till, glaciolacustrine, glaciofluvial, glaciomarine, marine, and/or colluvium sediments that are interspersed with the primary constituent and are too small to be represented at the scale of mapping. Thickness is greater than 1 m.
LACUSTRINE: Composed of sand, silt, and minor clay deposited in active lake environments.	
	Lacustrine plain: Deposit that forms the substrate of existing major fresh-water lakes. May also contain minor amounts of submerged rock, alluvium, colluvium, till, and/or glaciofluvial sediments. Thickness ranges from 1 to 3 m.
	Lacustrine veneer: Thin, discontinuous deposit. Hatch-fill is used when the veneer is the dominant proportion of a compound unit. Thickness is less than 1 m.
	Lacustrine delta: Active sediment build-up from flowing water entering standing water. May have gently- or steeply-dipping fronts. Thickness ranges from 3 to greater than 5 m.
	Lacustrine complex: Consists primarily of exposed lacustrine units but may contain till, glaciolacustrine, glaciofluvial, glaciomarine, marine, colluvium, and/or alluvium sediments, that are interspersed with the primary constituent and are too small to be represented at the scale of mapping. Thickness is greater than 1 m.
COLLUVIUM: Mass wasting debris (i.e. deposited by direct gravity-induced movement that may involve water and/or ice). Typically unsorted, but may be stratified as a result of gravity induced movement (e.g. debris flows). The character of the deposit depends primarily on its parent material.	
	Colluvial veneer: Thin, discontinuous deposit. Hatch-fill is used when the veneer is the dominant proportion of a compound unit. Thickness is less than 1 m.
	Colluvial blanket: A mantle of sediment. Thickness is greater than 1 m.
	Colluvial apron: Forms a slope deposit comprising debris flows, avalanche-dominated fans, and soliflucted sediments derived from bedrock and glacial sediment sources. Thickness is up to 10 m, thinning at head and toe of the deposit.
	Colluvial fan: Fan-shaped accumulations of mass wasted debris. Thickness can reach up to 10 m.
	Landslide Sediments: Forms a hummocky or ridged topography with ridges transverse to direction of movement. Thickness is highly variable, but may range up to 10 m (direction of movement indicated by symbol).
	Colluvial - complex: Consists primarily of colluvial materials but may contain till, glaciolacustrine, glaciofluvial, glaciomarine, marine, and/or alluvium sediments, that are interspersed with the primary constituent and are too small to be represented at the scale of mapping. Thickness is greater than 1 m.
	Colluvium - undifferentiated: Comprises colluvial sediments with mixed surface morphologies. Thickness is greater than 1 m.
GLACIOLACUSTRINE: Lacustrine deposits in, or along the margins of a glacial lake. May have been ice-dammed, or formed as a result of elevated water levels due to glacial melt. Typically well stratified silt and sand; deltas are composed of cross-stratified sand and gravels, and may include lenses of finer material.	
	Glaciolacustrine veneer: Thin, discontinuous deposit. Hatch-fill is used when the veneer is the dominant proportion of a compound unit. Thickness is less than 1 m.
	Glaciolacustrine plain/terrace: Typically forms a single plain, or may form terraces and wave-cut benches separated by scarps. Thickness ranges from 1 to greater than 20 m.
	Glaciolacustrine blanket: A mantle of material. Thickness ranges from 1 to 5 m.
	Glaciolacustrine delta: Sediment built-up from flowing glacially derived water entering a glacial lake. The feature may have gently- or steeply-dipping fronts. Thickness ranges from 3 to greater than 10 m.
	Glaciolacustrine ridges: Consists primarily of glaciolacustrine materials, but also includes cross-valley (DeGeer) moraines. Local relief varies from 1 to greater than 20 m, composed of sand and gravel. Deposits between ridges are more typical of glaciolacustrine deposits (silty-fine sands). Thickness ranges from 1 to greater than 20 m.
	Glaciolacustrine complex: Consists primarily of glaciolacustrine materials but may contain till, glaciofluvial, glaciomarine, marine, colluvium, and/or alluvium sediments, that are interspersed with the primary constituent and are too small to be represented at the scale of mapping. In upper slopes of valleys with cross-valley (DeGeer) moraines, more till is present and is inferred to represent the washing zone of a paleo-lake. Thickness is greater than 1 m.
GLACIOMARINE and MARINE: Sediments deposited by a postglacial transgression (over isostatically depressed crust) and regression. Typically fine sand, silt, clay, and stoney mud; sometimes rhythmically stratified. Beach sediments may be composed of gravel and sand. Deltas are composed of cross-stratified sand and gravels, and may include lenses of finer material.	

	Glaciomarine/Marine veneer: Thin, discontinuous deposit. Hatch-fill is used when the veneer is the dominant proportion of a compound unit. Thickness is less than 1 m.
	Offshore glaciomarine/marine: Usually forms thick sequences that exhibit extensive gullying; locally fossiliferous. In most cases rhythmically stratified silt, silty-clay, and clay (cf. nearshore glaciomarine). Thickness ranges from 1 to greater than 20 m.
	Nearshore glaciomarine/marine: Usually forms thin sheets to gullied blankets that fill topographic lows. Maybe well sorted, massive or rhythmically stratified silt to fine and/or medium sand (cf. offshore glaciomarine). Thickness typically less than 5 m, but may reach 10 m.
	Glaciomarine/Marine littoral sediments: Generally well sorted sand and gravel that locally includes washed till. Usually forms flights of beach ridges (i.e. raised beaches), bars, spits, terraces, and ice-pushed ridges. Thicknesses range from 1 to 5 m.
	Ice-contact glaciomarine blanket: Fine sand, silt, clay, and stoney mud. Any stratification observed is commonly deformed by syndepositional slumping and ice meltout. Surface is hummocky, pitted, or ridged with relief up to 10 m. Typically underlain by hummocky moraine sediment. Thickness ranges from 1 to 20 m.
	Glaciomarine/Marine tidal flats: Moderately sorted silty-sand to silt and clay that locally contains pockets of nearshore silts and sands; commonly strewn with a boulder lag. Thickness ranges from 1 to 10 m.
	Glaciomarine/Marine delta: Sediment build-up from flowing water entering the marine environment. Usually have steeply-dipping fronts (i.e. 'Gilbert-type' deltas). Thickness ranges from 5 to greater than 20 m.
	Glaciomarine/Marine - complex: Consists primarily of marine sediments but may contain pockets of till, glaciofluvial, and/or alluvial and colluvial sediments that are interspersed with the primary constituent and are too small to be represented at the scale of mapping. Thickness is greater than 1 m.
	Glaciomarine/Marine - undifferentiated: Comprises glaciomarine/marine sediments with mixed surface morphologies. Thickness is greater than 1 m.

EARLY HOLOCENE TO MIDDLE-NEOGENE

GLACIOFLUVIAL: Well to poorly stratified gravel, sand, and silt; minor diamicton; deposited behind, at, or in front of the ice margin by glacial meltwater.	
	Glaciofluvial veneer: Thin to discontinuous deposit. Hatch-fill is used when the veneer is the dominant proportion of a compound unit. Thickness is less than 1 m.
	Glaciofluvial plain/terraces: Typically forms a single level (i.e. a plain) and/or forms terraces separated by scarps. Patches of colluvium that are too small to be represented at the scale of mapping may be present along the terrace scarps. Thickness ranges from 1 to greater than 20 m.
	Ice contact glaciofluvial: Complex arrangement of surface slope steepness and aspects often forming kettle and kame topography and including esker ridges. Thickness ranges from less than 5 to greater than 15 m.
	Glaciofluvial - complex: Consists primarily of glaciofluvial materials but may contain till, glaciolacustrine, glaciomarine, marine, colluvium, and/or alluvium sediments, that are interspersed with the primary constituent and are too small to be represented at the scale of mapping. Thickness is greater than 1 m.
	Glaciofluvial - undifferentiated: Consists of glaciofluvial materials with mixed surface morphologies. Thickness is greater than 1 m.
TILL: Diamicton deposited directly by or from glacier ice; sandy to silty matrix (with minor clay) with striated clasts of various lithologies.	
	Till veneer: Thin, discontinuous deposit. Hatch-fill is used when the veneer is the dominant proportion of a compound unit. Thickness is less than 1 m.
	Till blanket: Surface morphology conforms to underlying bedrock topography. May exhibit crag-and-tails, flutings, and/or other drumlinoid forms; occasionally exhibits roches moutonnées in areas of thin till blankets (e.g. 1 to 2 m). Thicknesses ranges from 1 to 5 m.
	Till plain: Surface morphology is a single level or gently sloping, low relief plain; a result of overlying till masking the underlying topography. Thickness ranges from 1 to 20 m.
	Rolling till plain: Surface morphology forms gently rolling plains with 1 to 2 m relief; may exhibit flutings and/or other drumlinoid forms. Generally masks underlying topography. Thickness is greater than 5 m.
	Ridged till complex: Surface morphology forms parallel ridges (i.e. moraines) less than 15 m high and less than 50 m apart. Moraines are composed of till, intervening areas may be till and/or ice-marginal glaciofluvial deposits. Thickness is variable, but is usually less than 15 m.
	Hummocky till: Forms hummocky surface morphology (i.e. kame and kettle topography); in places the unit may exhibit prominent ridges marking recessional ice margins, or diffuse zones marking boundaries between glacial-ice regimes. Thickness is highly variable, but is usually less than 20 m.
	Till - complex: Consists primarily of till but may contain glaciofluvial, glaciolacustrine, glaciomarine, lacustrine, marine, colluvium, and/or alluvium sediments, that are interspersed with the primary constituent and are too small to be represented at the scale of mapping. Thickness is greater than 1 m.
	Till - undifferentiated: Consists of till deposits with mixed surface morphologies. Thickness is greater than 1 m.

PRE-GLACIAL
BEDROCK

	Bedrock: outcrops of bedrock, may have thin mantle (<10 cm) of unconsolidated or organic material.
	Bedrock - Felsenmeer: Frost-heaved, angular blocks of bedrock.

Surficial materials contact (defined, approximate, inferred)	
Observation point	
Ice movement indicator (Uni-directional, Bi-directional)	
Flute	
Esker (flow direction known)	
Moraine; major	
Moraine; minor	
Cirque	
Ice contact	
Meltwater channel, major (arrow indicates flow direction)	
Meltwater channel, minor (flow direction known, unknown)	
Meltwater channel, lateral (barb on upslope side)	
Escarpment	
Shorelines	
Glacial lake limit	
Glacial ice limit (1958) before re-advance (2000)	
Radiocarbon age (lab number)	

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