GEOLOGICAL SURVEY OF CANADA | COMMISSION GÉOLOGIQUE DU CANADA

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NATMAP
CARTNAT
Canada's National Geoscience Mapping Program
Le Programme national de cartographie géoscientifique du Canada

STRATIGRAPHIC SECTIONS

1
- E — Massive silt (loess)
- LE — Silty clay as below, very pebbly
- LE — Grey pebbly clay, finely laminated, scattered pebbles and cobbles throughout. Granitic and metamorphic lithologies from Canadian Shield are present. Stones range up to 50 cm in length. Lower contact is marked by boulders up to 50 cm supported by a clayey matrix directly in contact with bedrock.
- R — Weathered shale

2
- Slightly pebbly massive clay
- LI — Weathered stony diamicton (till) dark grey, massive, stone content variable - up to 25%. Sandstones almost completely disaggregated. Some carbonates present. All clasts derived from Rocky Mountain Front Ranges and Foothills
- R — Weathered light grey siltstone

3
- LI — Laminated clays
- Tlm — Diamicton (till), grey clayey silt matrix. Moderately stony (10-40 %) Stones are all derived from Front Ranges and Foothills (sedimentary and metamorphic) and Canadian Shield (crystalline and conglomerate). Contains many boulder size limestone clasts. Stones are dominantly angular
- Glm — Sandy gravel. All clasts of Rocky Mountain Front Ranges provenance (sandstone dominant, limestone and dolomite the next most common lithologies)
- R — Weathered sandstone and shale bedrock

4
- LE — Clayey silt to silty clay. Mostly obscured by slumping
- Al — Gravel
- Al — Coarse pebbly sand, Gravel lag at base with clasts up 20 cm in length
- R — Weathered mudstone

5
- LE — Dark brown silty clay. Widely scattered pebbles
- Tlm — Stony diamicton (till), clayey loam matrix. Stones range up to 40 cm. All clasts are derived from Rocky Mountain Front Ranges and Foothills. Sandstone predominates with limestone and dolomite the next most common lithologies

6
- LE — Rhythmically laminated dark brown and grey clay
- TEI — Dark brown moderately stony glacial diamicton (till) Matrix sandy. Stony silt. Lithologies from the Canadian Shield make up about 10 % of stones

Vertical scale (metres): 0, 5, 10

7 BORING C207 CHAIN LAKES RESERVOIR SOUTH DAM
- L — Organic rich lacustrine clay
- LE — Highly plastic inorganic clay
- Tlm — Gravelly silty and sandy clay, low plasticity. Clasts range up to boulder size (Commonly LE Jackon Jr.; apparently glaciolacustrine till) Stones are dominantly poorly sorted gravel near top of unit)

8 BORING C209 CHAIN LAKES RESERVOIR SOUTH DAM
- GE — Poorly sorted silty, clayey gravel and gravelly sand. Clasts are predominantly shaley (commonly LE Jackson Jr.; apparently glaciofluvial deposit) Also tan sediments of the Plain of Lakes valley, a former meltwater channel)
- R — Weathered siltstone

9
- L — Organic rich lacustrine clays
- LE — Inorganic clay, highly plastic
- Tlm — Gravelly silty and sandy clay low plasticity. Boulder size limestone and sandstone clasts encountered (comment, LE Jackson Jr.; apparently glacial diamicton (till) but the most part based upon correlation with surface exposures)
- Gll? — Well to poorly sorted gravels. Shale is the predominant clast lithology

10
- E — Very fine sand and silt, massive. Contains a buried soil. Unit fills topographic lows
- Glm — Poorly sorted bouldery gravel. Matrix silty sand. Clasts 30 cm in length are common
- Tlm — Stony light grey glacial diamicton (till). Stones are almost solely limestone and dolostone while the silty sand matrix is predominantly carbonate
- Glm — Boulder gravel, massive
- R — Shale

SUBSURFACE UNITS

Post Glacial
- O — Peat and degraded peat
- E — Eolian fine sand and silt
- L — Lacustrine sand, silt and clay

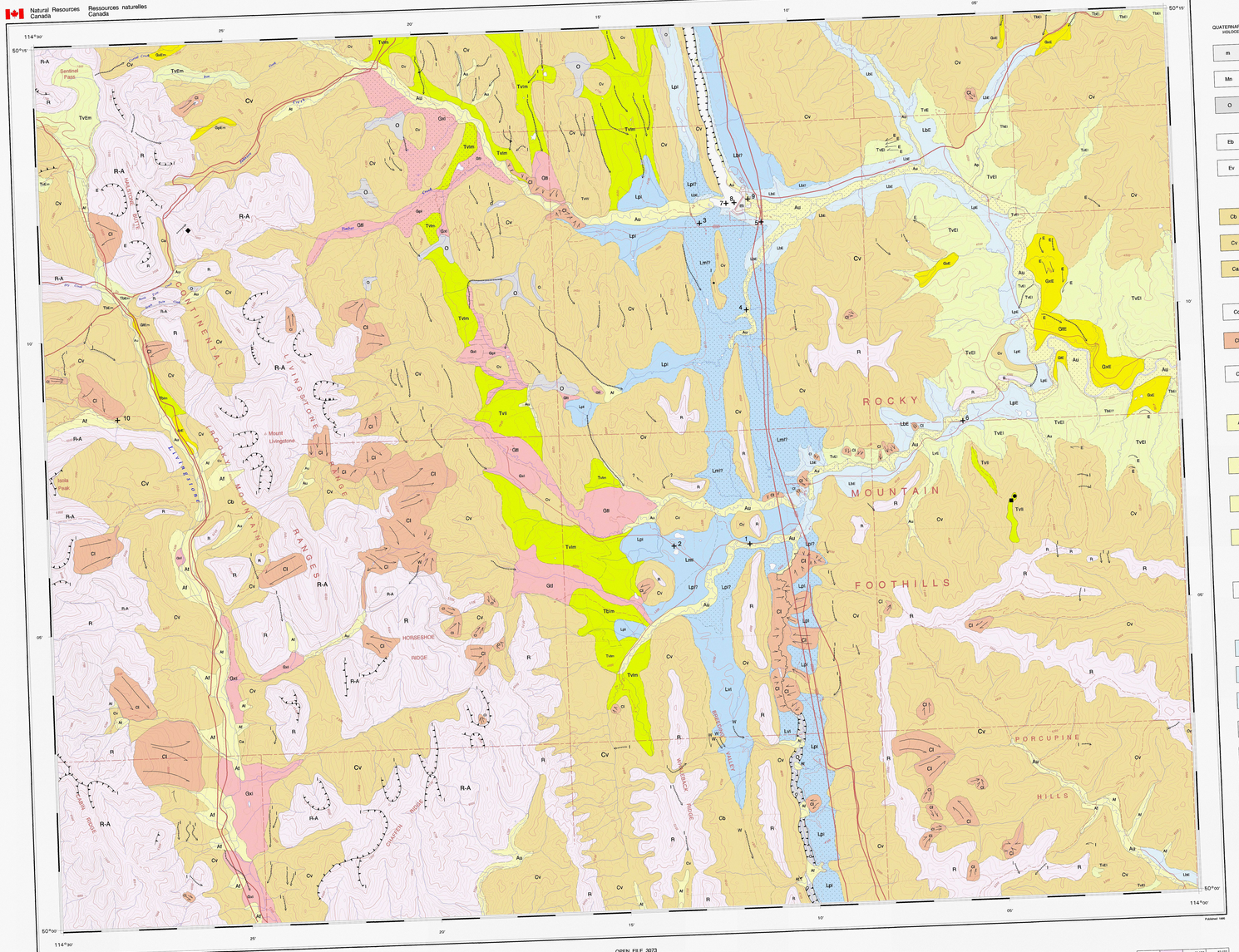
Erratics Train Glaciation
- LE — Laminated and thinly bedded glaciolacustrine sand silt and clay
- GE — Outwash gravels (Rocky Mountain and, Foothills, and Canadian Shield provenance)
- TEI — Erratics Train Till (mixed Rocky Mountain, Foothills and Canadian Shield provenance in the east and grading westward to purely Rocky Mountain provenance)

Interglacial?
- Al — Alluvial sand and gravel

Penultimate glaciation or older
- LI — Laminated and thinly bedded glaciolacustrine silty clay
- Gll — Outwash gravels (Rocky Mountain and Foothills provenance)
- Tlm — Till of Rocky Mountain Front Ranges and Foothills Provenance

Uncertain Age
- LT — Glaciolacustrine sediments deposited during either Erratics Train Glaciation or the penultimate glaciation
- GIT — Coarse gravel outwash entirely of Rocky Mountain Front Ranges and Foothills provenance. May have been deposited at the end of the penultimate glaciation or during the advance of the Erratics Train Glaciation

Proglacial
- R — Sandstone and shale bedrock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Sentinel Pass
Elbow River
Highwood River
Sheep River
Turner Valley
Okotoks
Mount Livingstone
Mount Lorette
Mount Bolton
Mount Glasgow
Mount Rae
Mount Head
Mount Burke
Mount Romulus
Mount Remus
Mount Romeo
Mount Juliet
Mount Ethel
Mount Lucy
Mount Ophelia
Mount Lawrence Grassi
Mount Indefatigable
Mount Haig
Mount Tyrwhitt
Mount Bowell
Mount Wintour
Mount Lougheed
Mount Burns
Mount Bishop
Mount Worsley
Mount Remillard
Mount Bleasdell
Mount Bragg
Mount Bell
Mount Bell-Irving
Mount Hood
Mount Hornaday
Mount Hamilton
Mount Hewitt
Mount Hewitt-Bell
Mount Hewitt-Carnegie
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