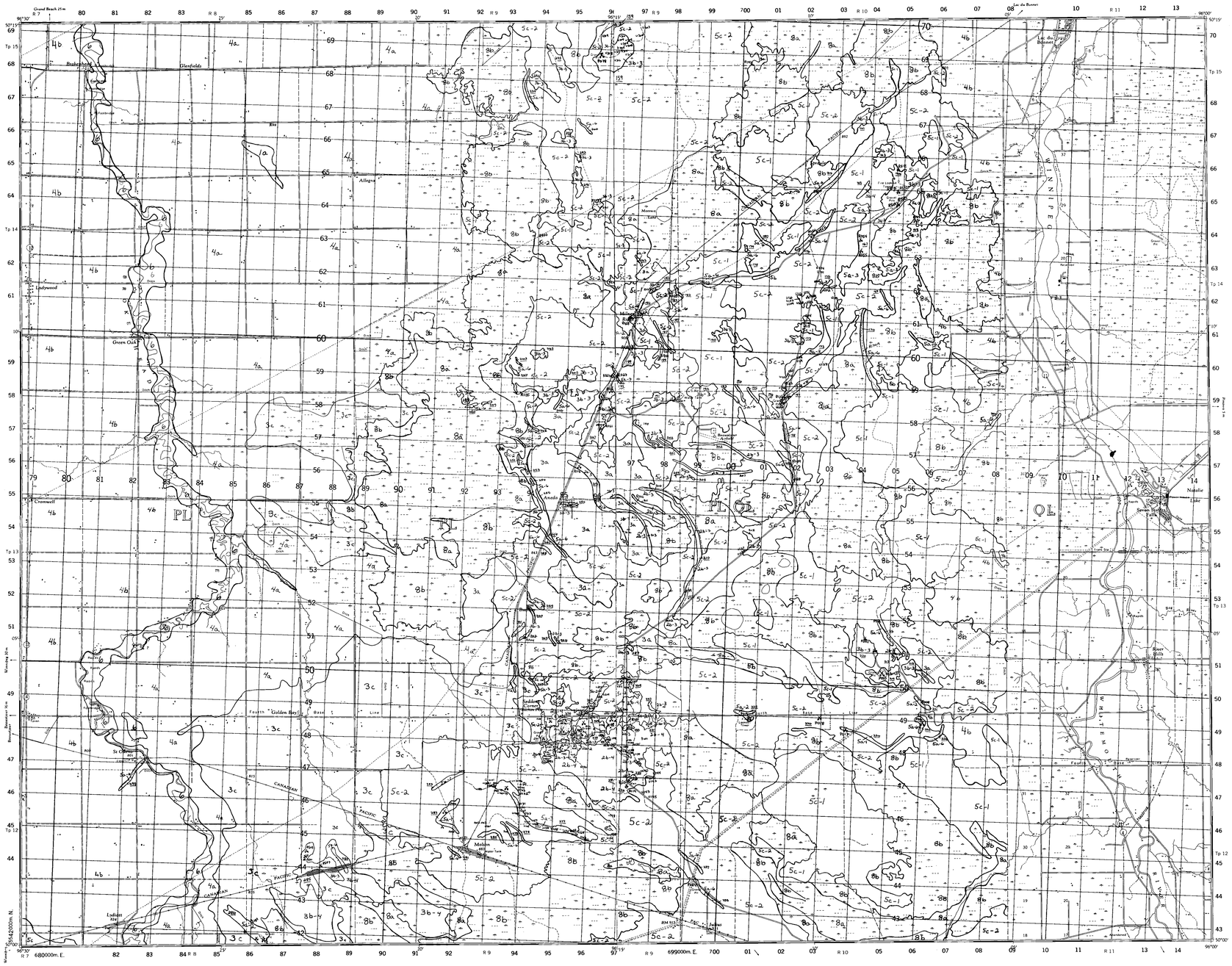
MANITOBA
DEPARTMENT OF MINES, RESOURCES & ENVIRONMENTAL MANAGEMENT

Mineral Resources Division

Preliminary Map Number: 1977 WPG-12

MOLSON N.T.S. 62I/1

QUATERNARY GEOLOGY OF THE WINNIPEG REGION



Legend

Postglacial

- 9b — Recent shorelines (sand)
- 9a — Marsh sediments (silt)
- 8b — Dry swamp (peat)
- 7 — Eolian sand
- 6 — Alluvium a) clayey silt; b) low-E silt; a) gravel

Glaciolacustrine and late Glacial

- 5c — Sand plain
  - 1) without boulder, cobble or pebble lag
  - 2) with boulder, cobble or pebble lag
- 5b — Littoral sand, shorelines – beach ridges composed of sand
- 5a — Beach ridges composed of gravel or thick lag concentrates
  - 1) sandy coarse pebble gravel
  - 2) sandy fine pebble gravel
  - 3) sandy pebble gravel
  - 4) coarse pebble gravel
  - 5) fine pebble gravel
  - 6) gravelly sand
  - 7) sandy cobbles
  - 8) cobbly sand
- 4b — Silt rich or pebble rich clay
- 4a — Lacustrine clay

Glacial and Glaciofluvial

- 3c — Undifferentiated sandy till
- 3b — Predominantly calcareous outwash and esker sediments
  - 1) coarse cobble pebble gravel
  - 2) interbedded silt and pebble gravel
  - 3) interbedded sand and pebble gravel
  - 4) sand with minor gravel
- 3a — Silty calcareous till
- 2b — Crystalline and calcareous outwash and esker sediments
  - 1) coarse cobble pebble gravel
  - 2) interbedded silt and pebble gravel
  - 3) interbedded sand and pebble gravel
  - 4) sand with minor gravel
- 2a — Sandy calcareous till

Bedrock

- 1b — Paleozoic limestone bedrock with zones of weathered drift
- 1a — Precambrian crystalline bedrock with zones of weathered drift

Symbols

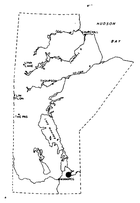
- gravel pit
- sand ridge
- 7w2 — deposit number
- BOL2, 81926 — station number

Geology by: S. Ringrose, P. Large, C. Dupf
1976 and 1977

REFERENCES: Underwood, McLellan and Associates, 1976, Aggregate Resources of the Winnipeg Region, prepared for the Mineral Resources Division.

Large, P. and Ringrose, S., 1977, Pleistocene Geology of the Winnipeg Region, in MRD Report of Field Activities, 1976.

Ringrose, S., Large, P. and Groszko, F., 1977, in Major Gravel Bearing Pleistocene Deposits in the Winnipeg Region, in: Mans. Mins. Res. Div. Report of Activities, 1977.



This map is a provisional summary of work carried out during the summer field season and is printed directly from the geologist's manuscript. It is not to be regarded as a final interpretation of the geology of the area.

Scale 1:50 000

KILOMETRES 1 0 1 2 3 4 KILOMETRES
MILES 1 0 1 2 3 MILES

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