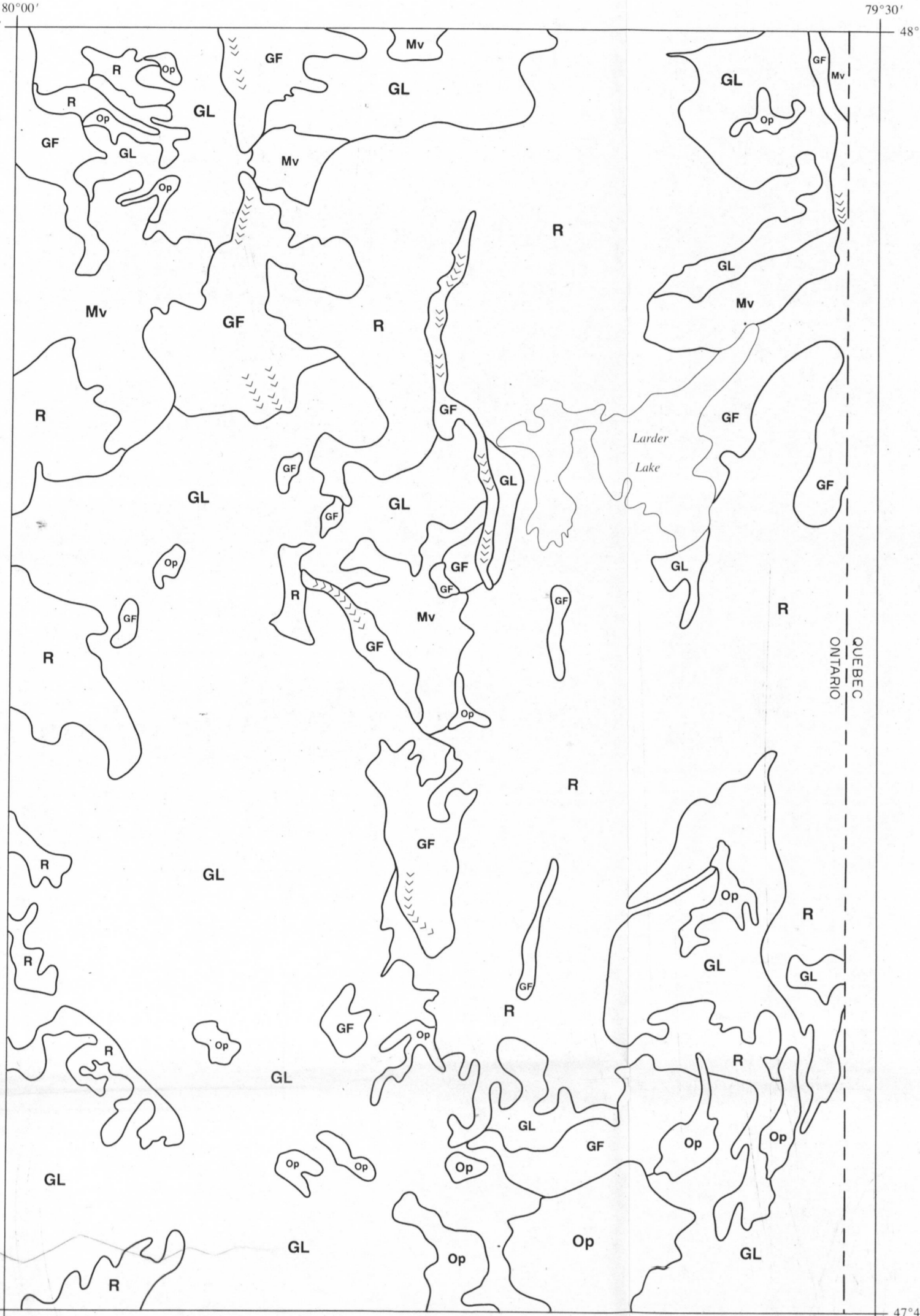
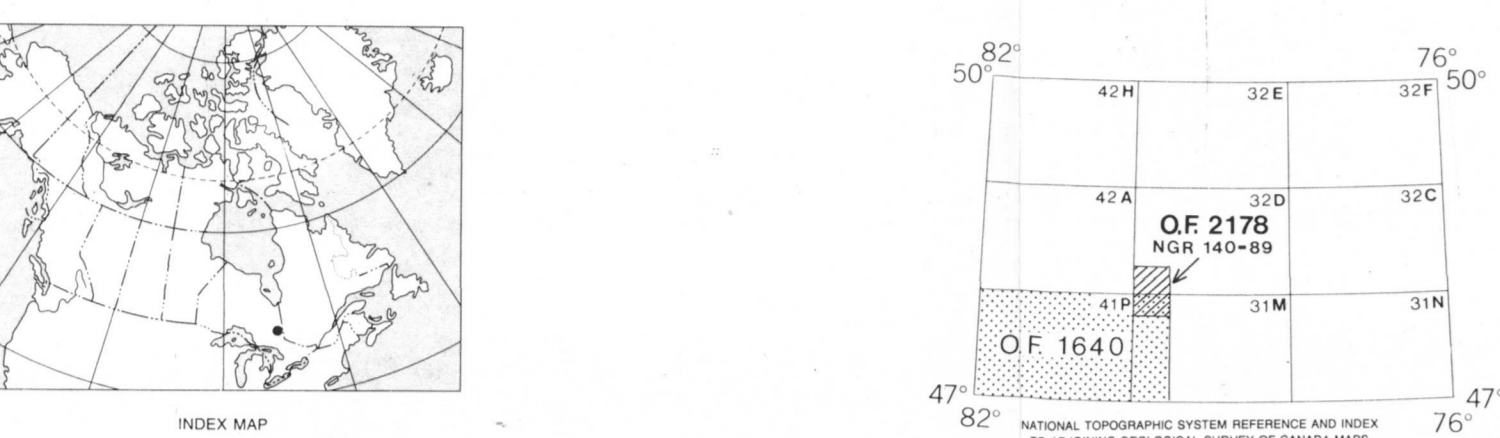


**SAMPLE LOCATION
STREAM SEDIMENTS**
GSC OPEN FILE 2178
NATIONAL GEO-CHEMICAL RECONNAISSANCE MAP 140-89
CANADA - ONTARIO
MINERAL DEVELOPMENT AGREEMENT
(1985-1990)

STREAM SEDIMENT AND WATER GEO-CHEMICAL SURVEY
NORTHEAST ONTARIO, 1989



SCALE 1:200,000

SURFICIAL GEOLOGY

- OP** Organics, peatland deposits
- GL** Glaciolacustrine and glaciomarine deep water deposits; clay, silt and sand
- GF** Glaciofluvial deposits; includes shallow water glaciolacustrine and glaciomarine deposits; predominantly sand and gravel
- MV** Shallow drift; thin glacial sediments, mostly overlying bedrock
- R** bedrock, predominantly bare rock or thin glacial sediment cover

SYMBOLS

Esker

Sources of Information:
Lee, H.A. 1979. Northern Ontario Engineering Geology Terrain Study, Data Base Map Larder Lake. O.G.S. Map 5031, Scale 1:100,000.
Reed, M.A. and Hallett, D.R. 1979. Northern Ontario Engineering Geology Terrain Study, Data Base Map New Liskard. O.G.S. Map 5221, Scale 1:100,000.

**GEOLOGICAL SURVEY OF CANADA
MINERAL RESOURCES DIVISION
EXPLORATION GEO-CHEMISTRY SUBDIVISION**

CONTRACTORS

- Collection: Ontario Ministry of Northern Development and Mines personnel, Kirkland Lake, Ontario
- Preparation: Gelder Associates, Ottawa, Ontario
- Sediment Analysis: Bondar-Clegg & Co. Ltd., Ottawa, Ontario
- Water Analysis: Chesex Labs Ltd., North Vancouver, British Columbia
- Cartography: Les Services Cartographiques 2 + 1 Inc., Gatineau, Quebec
- Reproduction: Ashley Reproductions Ltd., Ottawa, Ontario

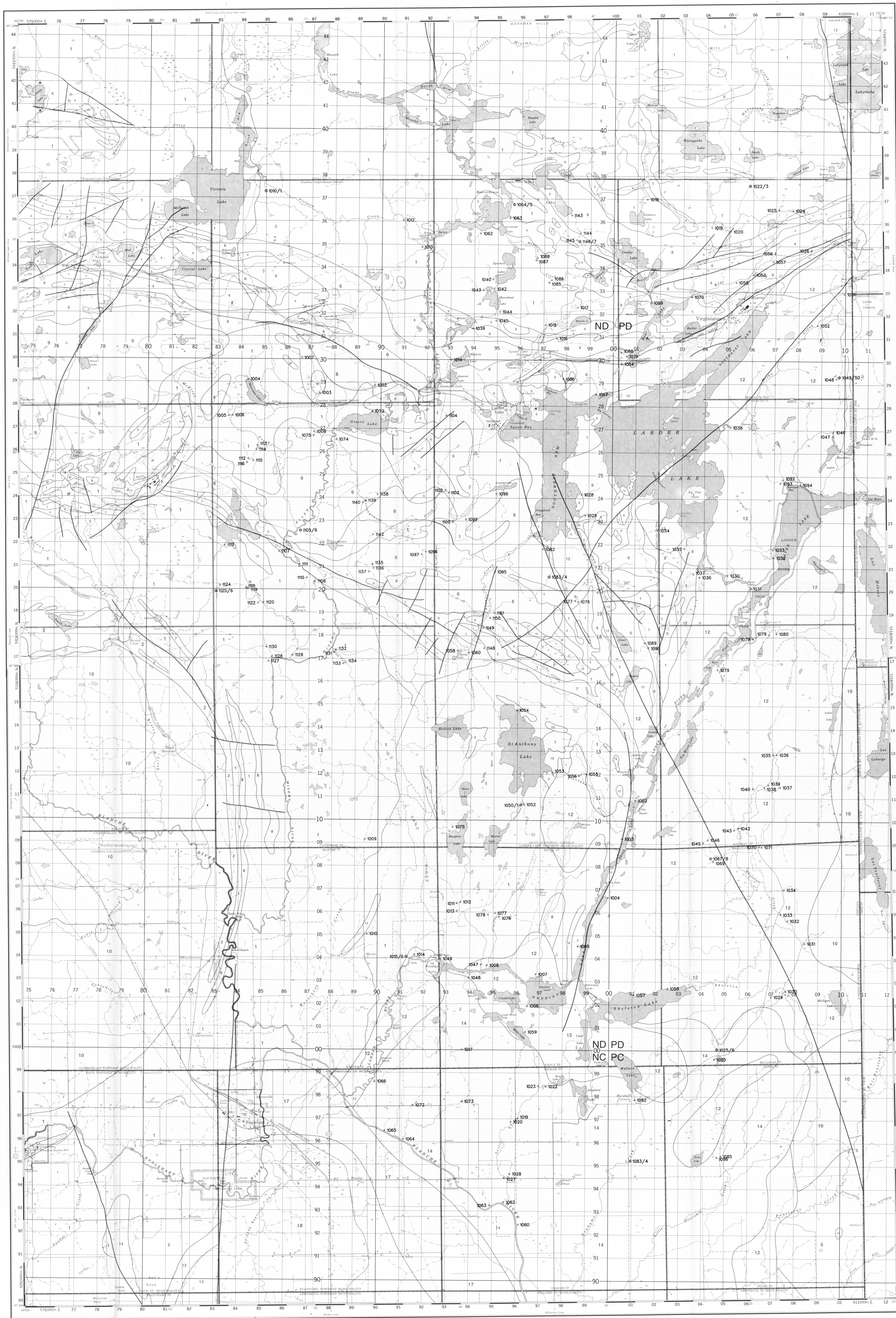
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Canada



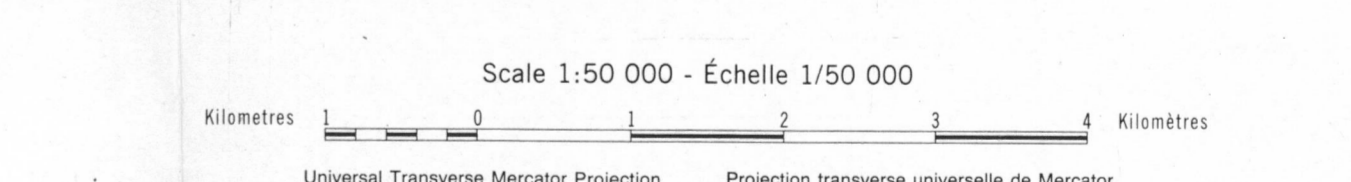
GEOLOGY LEGEND

- PALEOZOIC**
- LOWER AND MIDDLE SILURIAN**
 - 18** STW 20" Thornloe Formation: limestone, dolomite, sandstone
 - Wabi Formation: limestone, shale
- MIDDLE AND UPPER ORDOVICIAN**
 - 17** ODPB 15 Dawson Point Formation: shale
 - Fair Formation: limestone
 - Bucke Formation: limestone, shale
 - Quisque Formation: sandstone
- PRECAMBRIAN**
- MIDDLE PRECAMBRIAN (PROTEROZOIC)**
 - Mafic Intrusive Rocks**
 - 14** PFI 04 Diabase, granophyre
 - Huronian Supergroup**
 - 13** PRC4 04 Lorrain Formation: quartzite, arkose
 - 12** PRC0 04 Gowanda Formation: Coleman Member - conglomerate, arkose, greywacke, quartzite, argillite
- EARLY PRECAMBRIAN (ARCHEAN)**
 - Felsic Intrusive Rocks**
 - 10** APFQ 02 Quartz porphyry, quartz - feldspar porphyry, feldspar porphyry, granophyre, felsite; trondhjemite, granodiorite, quartz monzonite
 - 9** APF8 02 Syenite, monzonite, feldspar porphyry
 - Metamorphosed Mafic and Ultramafic Rocks**
 - 8** AMM 02 Gabbro, diorite, leucopyroxene
 - 7** AMU 02 Peridotite, dunite, pyroxenite, serpentinite
 - Metasediments**
 - 6** AMC 02 Conglomerate, greywacke, siltstone, shale, argillite
 - 5** M80 02 Greywacke, siltstone, slate, argillite, and minor pebble conglomerate
 - Metavolcanics**
 - 4** AAK 02 Alkaline Metavolcanics: trachyte, leucite trachyte; flow, tuff, breccia
 - 2** APH 02 Felsic Metavolcanics: pyroclastic rocks, flow
 - 1** APKM 02 Intermediate and Mafic Volcanics: intermediate flows; intermediate pyroclastic rocks; mafic flows and pyroclastic rocks
 - 1F** APF 02 Iron Formation: and ferruginous chert (occurs as members of stratigraphic units 1, 2, 4 and 5)

* Map unit number assigned to rock type; numbers taken from O.G.S. Map 2205.
** A mnemonic code assigned to rock type and age.

SYMBOLS

- geological boundary
- Fault
- No data
- Field duplicate site



Elevation in feet above mean sea level
Magnetic declination in 1990 for the central part of the map area (48°N, 79°45'W) is 11°55'W increasing 2.3' annually. Magnetic declination ranges from 11°32'W increasing 2.6' annually in the southwest corner of the map area, to 12°19'W increasing 2.0' annually, in the northeast corner of the map area.

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