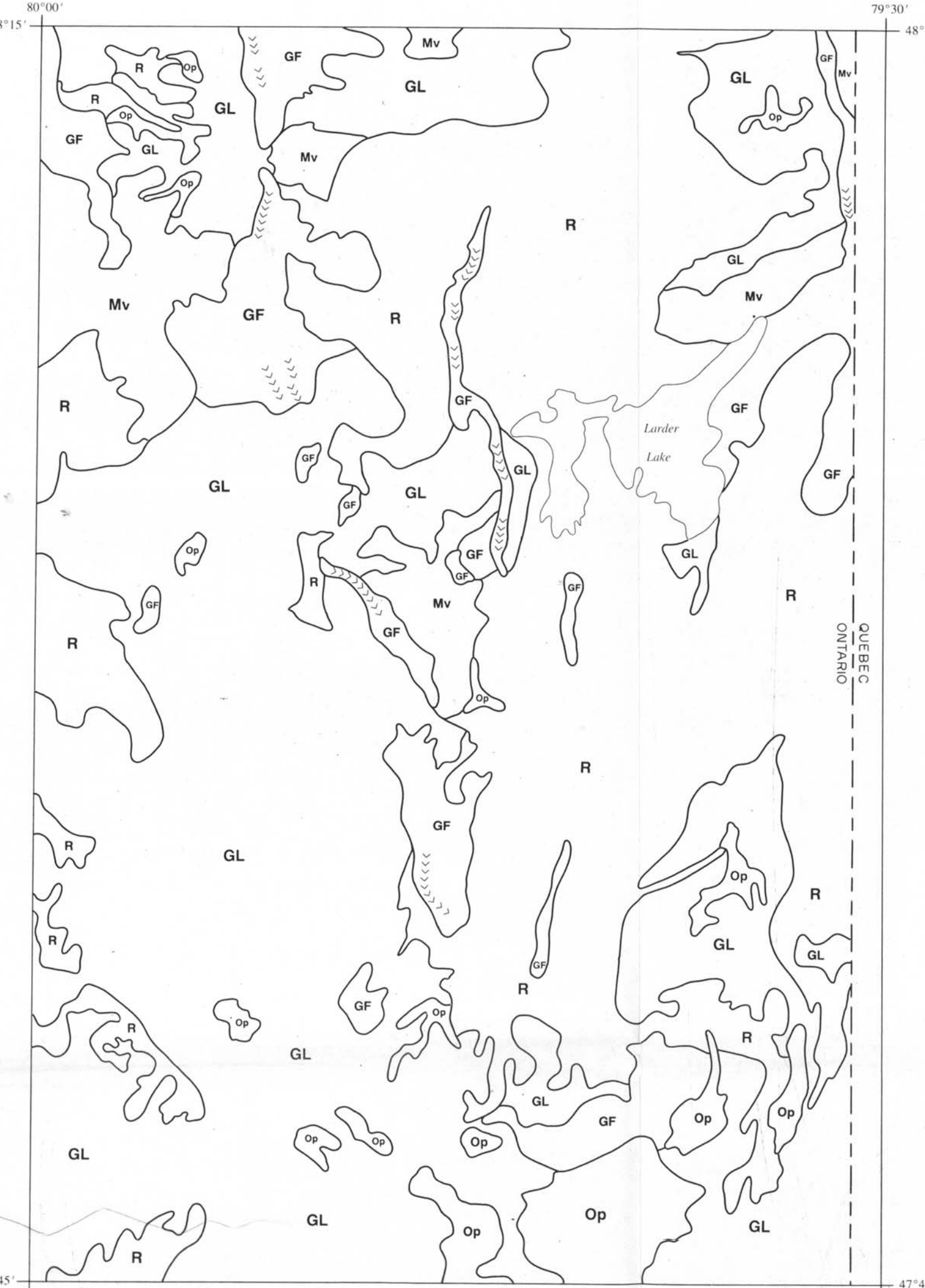
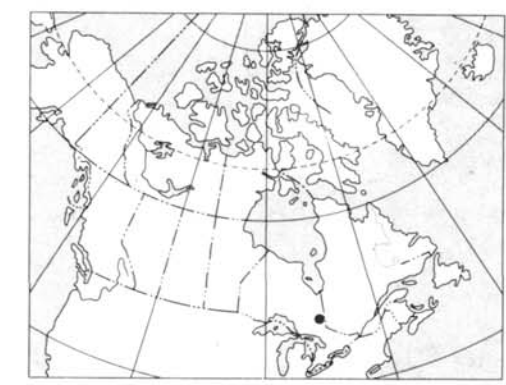


**SAMPLE LOCATION
STREAM SEDIMENTS**
GSC OPEN FILE 2178
NATIONAL GEOCHEMICAL RECONNAISSANCE MAP 140-89
CANADA - ONTARIO
**MINERAL DEVELOPMENT AGREEMENT
(1985-1990)**

STREAM SEDIMENT AND WATER GEOCHEMICAL SURVEY
NORTHEAST ONTARIO, 1989



SURFICIAL GEOLOGY

- Op** Organics, peatland deposits
GL Glaciolacustrine and glaciomarine deep water deposits; clay, silt and sand
QF 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.
Boed, M.A. and Hallett, D.S. 1979. Northern Ontario Engineering Geology Terrain Study, Data Base Map New Liskard. O.G.S. Map 5021, Scale 1:100,000.

**GEOLOGICAL SURVEY OF CANADA
MINERAL RESOURCES DIVISION
EXPLORATION GEOCHEMISTRY SUBDIVISION**

CONTRACTORS

Collection: Ontario Ministry of Northern Development and Mines personnel
Preparation: Golder Associates
Sediment Analysis: Bondar-Clegg & Co. Ltd.
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Geological Survey of Canada
Publications Distribution
601 Booth Street
Ottawa, Ontario, K1A 0S8
Tel: (613) 956-4342



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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
Farr Formation: limestone
Bucke Formation: limestone, shale
Quigley Formation: sandstone

PRECAMBRIAN

MIDDLE PRECAMBRIAN (PROTEROZOIC)

- Mafic Intrusive Rocks**
14 **PMI 04** Diabase, granophyre
Huronian Supergroup
13 **PMCL 04** Lorrain Formation: quartzite, arkose
12 **PMCS 04** Gowganda Formation: Coleman Member - conglomerate, arkose, greywacke, quartzite, argillite

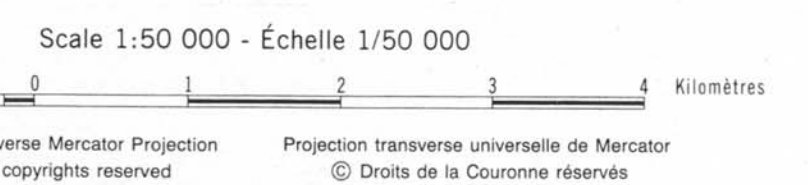
EARLY PRECAMBRIAN (ARCHEAN)

- Felsic Intrusive Rocks**
10 **APIQ 02** Quartz porphyry, quartz - feldspar porphyry, feldspar porphyry, granophyre, felsite; trondhjemite, granodiorite, quartz monzonite
9 **APIS 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, slate, argillite
5 **MMG 02** Greywacke, siltstone, slate, argillite, and minor pebble conglomerate
Metavolcanics
4 **AMK 02** Alkaline Metavolcanics: trachyte, leucite trachyte; flow, tuff, breccia
2 **APH 02** Felsic Metavolcanics: pyroclastic rocks, flow
1 **ATMH 02** Intermediate and Mafic Volcanics: intermediate flows; intermediate pyroclastic rocks; mafic flows and pyroclastic rocks
IF **ATF 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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