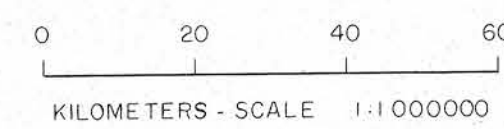
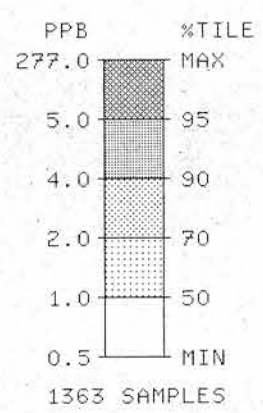
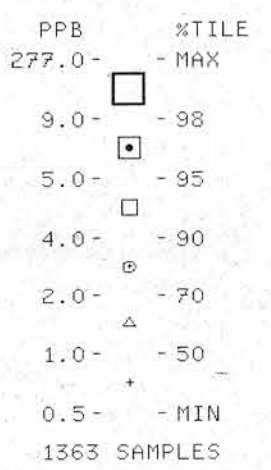


REGIONAL TREND MAP



GOLD
IN
LAKE SEDIMENTS



GSC OPEN FILE 1958
CANADA - ONTARIO
MINERAL DEVELOPMENT
AGREEMENT
(1985 - 1990)



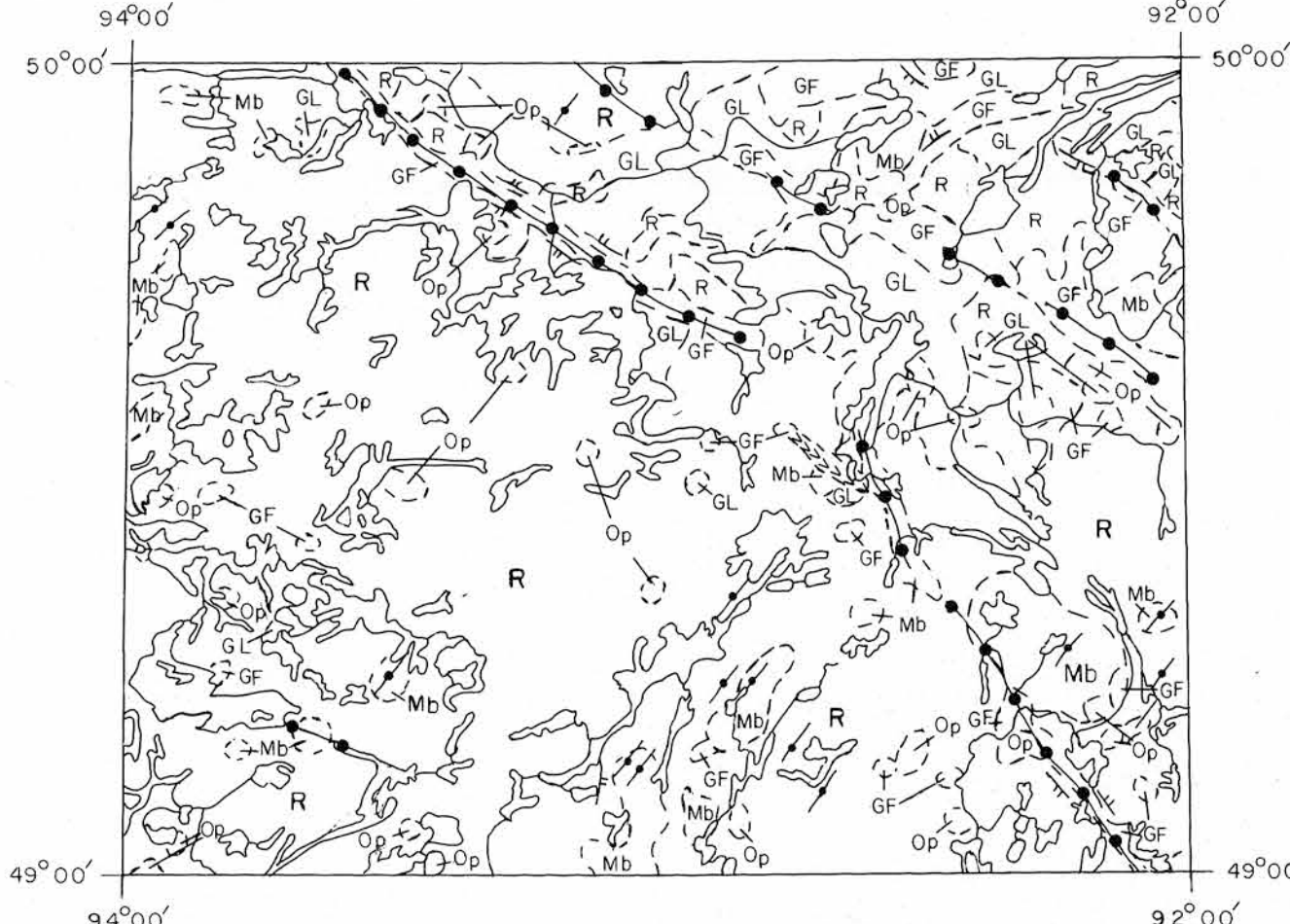
Contribution to Canada-Ontario 1985 Mineral Development
Subsidiary Agreement under the Economic and Regional
Development Agreement. Project funded by the Geological
Survey of Canada.

Contribution à l'Entente auxiliaire Canada/Ontario sur
l'exploitation minière 1985 dans le cadre de l'Entente
de développement économique et régional. Ce projet a été
financé par la Commission géologique du Canada.

Canada

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SURFICIAL GEOLOGY

- Op** Organics, peatland deposits
- GL** Glaciolacustrine and glaciomarine deepwater deposits, clay, silt
- GF** Glacioluvial deposits, includes shallow water, glaciolacustrine and glaciomarine deposits of predominantly sand and gravel
- Mb** Till, unsorted mixture of boulders, sand, silt, and clay sufficiently thick to mask bedrock topography
- Mv** Shallow drift, thin glacial sediments, mostly overlying bedrock
- R** Bedrock, predominantly bare rock with thin glacial sediment cover

SYMBOLS

- Major moraines (includes end, recessional and interlobate types)
- Crag and tail forms
- Esker
- Relict, beach and bar forms

Sources of information:

Sado, E.V., Carswell, B.F. (compilers) 1987, Surficial geology of northern Ontario; Ontario Geological Survey, Ministry of Mines and Northern Development, Map 2518, Scale 1:1,200,000

GEOLOGICAL SURVEY OF CANADA
MINERAL RESOURCES DIVISION
EXPLORATION GEOCHEMISTRY SUBDIVISION

CONTRACTORS

- Collection: SIAL Geophysique Inc., Montreal
- Preparation: Golder Associates, Ottawa
- Sediment Analysis: Bondar-Clegg and Company Ltd., Ottawa
Chemex Labs Limited, Vancouver (Au only)
- Water Analysis: Chemex Labs Limited, Vancouver
- Cartography: GSC - Geological Information Division
Terra Surveys Ltd., Ottawa
- Reproduction: Ashley Reproductions Ltd., Ottawa
- Copies of the OpenFile are available from:
Geological Survey of Canada
Publications Distribution
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Ottawa, Ontario K1A 0E8
Tel.: (613) 995-4342

Contribution to Canada - Ontario Mineral Development Agreement 1985 - 1990, a
subsidiary agreement under the Economic and Regional Development Agreement.
Project funded by the Geological Survey of Canada.

CONCENTRATION		FREQUENCY
10 to 277	+	N= 27(2.0%)
6 to 9	■	N= 31(2.3%)
5	■	N= 35(2.6%)
3 to 4	●	N= 193(14.2%)
0 to 2	+	N=1077(79.0%)

Energy, Mines and
Resources Canada

Energie, Mines et
Ressources Canada



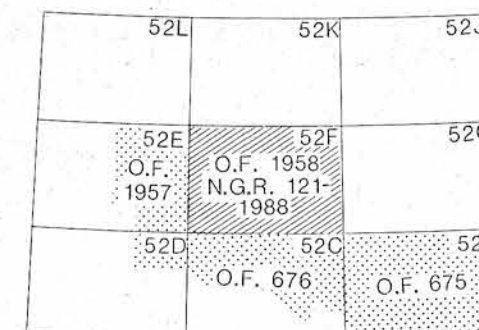
INDEX MAP

GEOLOGICAL SURVEY OF CANADA
COMMISSION GÉOLOGIQUE DU CANADA

GOLD (ppb)
LAKE SEDIMENTS
GSC OPEN FILE 1958
REGIONAL GEOCHEMICAL RECONNAISSANCE MAP 121-88
CANADA - ONTARIO
MINERAL DEVELOPMENT AGREEMENT
(1985-1990)

LAKE SEDIMENT AND WATER GEOCHEMICAL SURVEY
NORTHWEST ONTARIO, 1988

Scale 1:250 000 - Échelle 1/250 000
Kilometres 5 10 15 20 Kilomètres
Universal Transverse Mercator Projection
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NATIONAL TRANSVERSE SYSTEM REFERENCE AND INDEX
TO ADDRESS GEOLOGICAL SURVEY OF CANADA MAPS

GEOLOGY LEGEND

PRECAMBRIAN

- 9* LPAD 04** Diabase dykes

ARCHEAN

- 8 AGM 02 Quartz monzonite, granodiorite, trondhjemite, quartz diorite, granite, quartz and feldspar porphyries (rock units may be massive, foliated, equigranular, or gneissic)
- 7 AGY 02 Equigranular and porphyritic monzonite, syenodiorite, syenite, diorite and quartz diorite
- 6 AUB 02 Gabbro, norite, diorite, anorthosite, anorthositic gabbro, peridotite, pyroxenite
- 5 AIF 02 Chemical metasediments, ironstone, magnetite and pyrite ironstone, chert
- 4 ACSP 02 Clastic metasediments, pebble and boulder conglomerate, sandstone, siltstone, argillite and derived schists, migmatite, metatextite
- 3 AMVA 02 Alkaline mafic metavolcanic flows
- 2 AMVF 02 Felsic to intermediate metavolcanics; flows, tuff, agglomerate, breccia and migmatite
- 1 AMVB 02 Mafic metavolcanics; massive and pillowed flows, tuff, agglomerate and breccia, amphibolite, amphibolite gneiss and migmatite

This geology legend is common for both GSC Open Files 1957 and 1958

* Map unit number assigned to rock type

** A mnemonic code assigned to rock type and age recorded as part of field observations

SYMBOLS

- Geological boundary
- Fault
- No data
- Single analysis, 10g sample weight +27
- Single analysis, <10g sample weight +27*
- Repeat analysis, both samples 10g +27 (14)
- Repeat analysis, first sample 10g, repeat <10g +27 (14*)
- Single analysis, 10g sample, less than detection limit of 1 ppb <1
- Field duplicate site

Source of information:

Ontario Geological Survey (1979) Kenora - Fort Frances Geological
Compilation Series, Map 2443, Scale 1: 253,440

Elevation in feet above mean sea level

Magnetic declination in 1989 for the central part of the map area (49°30'N; 93°E) is 2°22'E, decreasing 7.4' annually. Magnetic declination ranges from 1°26'E, decreasing 7.2' annually, in the southeast corner of the map area, to 3°19'E, decreasing 7.5' annually, in the northwest corner of the map area.

GOLD (ppb)
LAKE SEDIMENTS
GSC OPEN FILE 1958
NORTHWEST ONTARIO, 1988

GOLD (ppb)
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