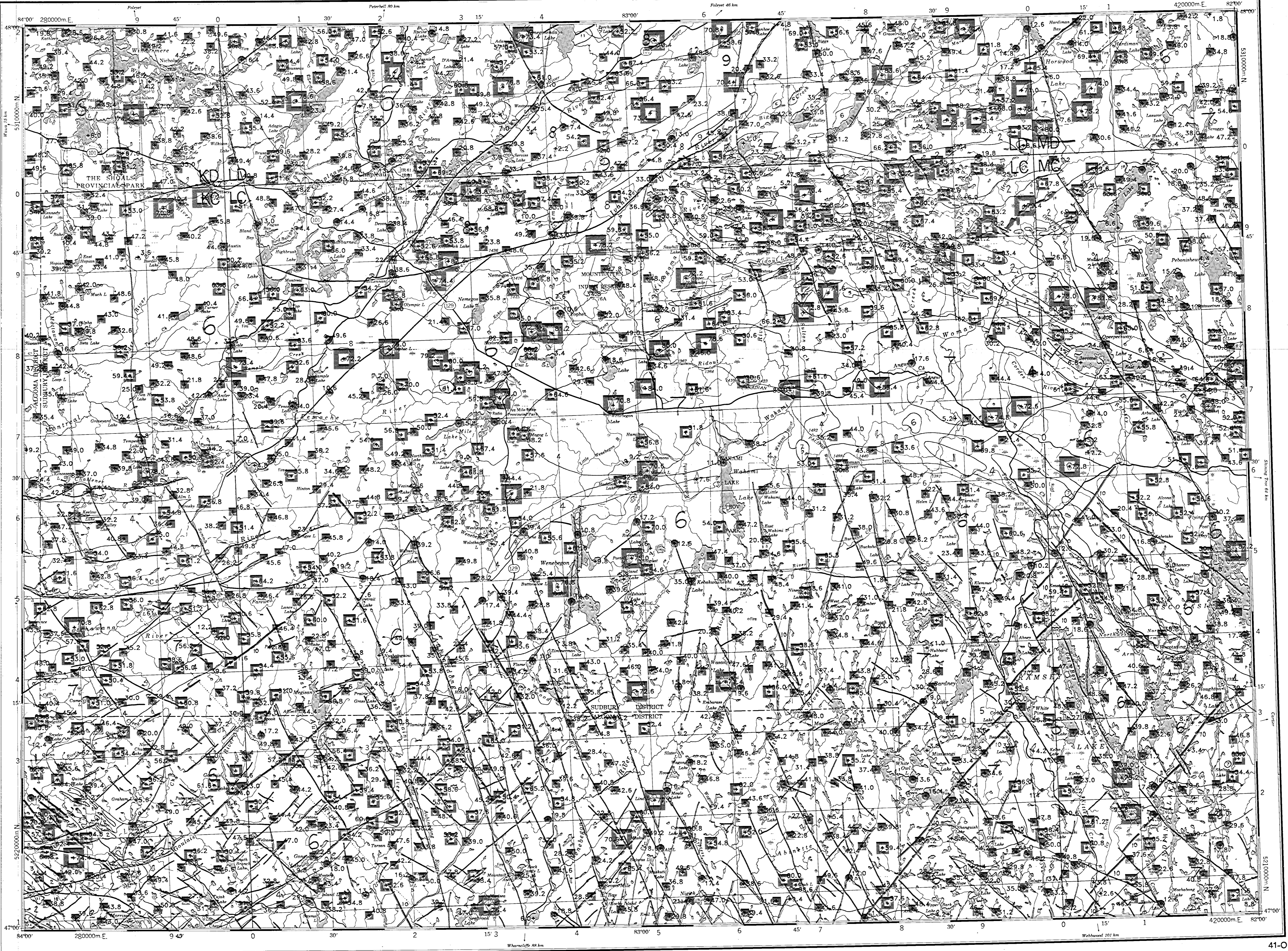
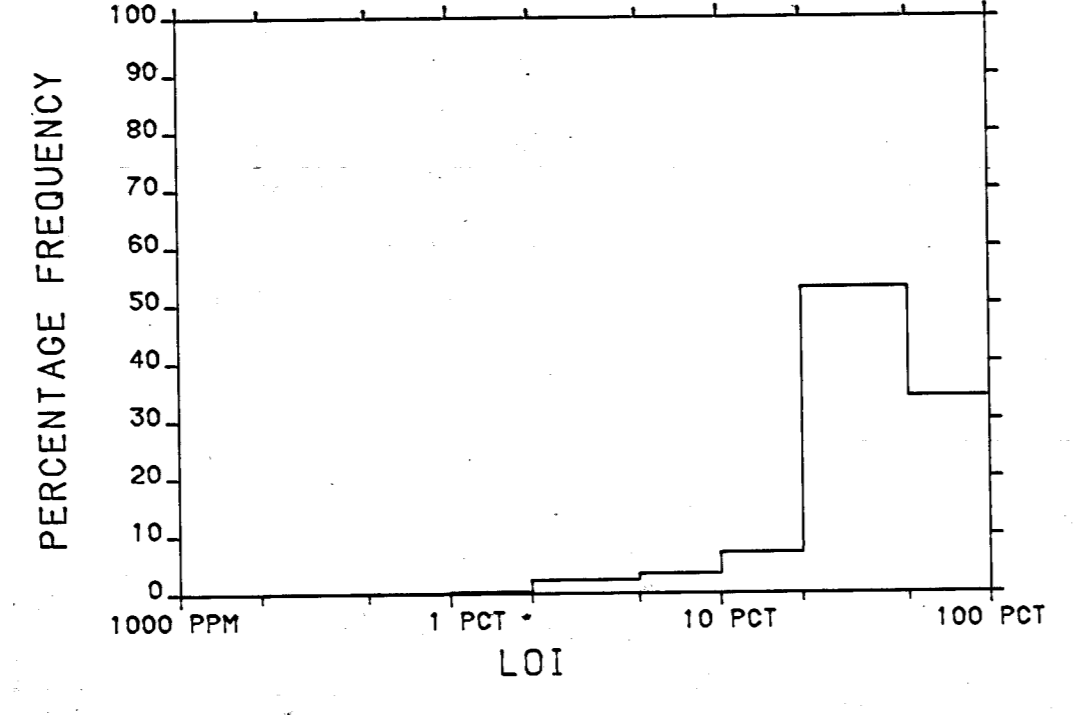
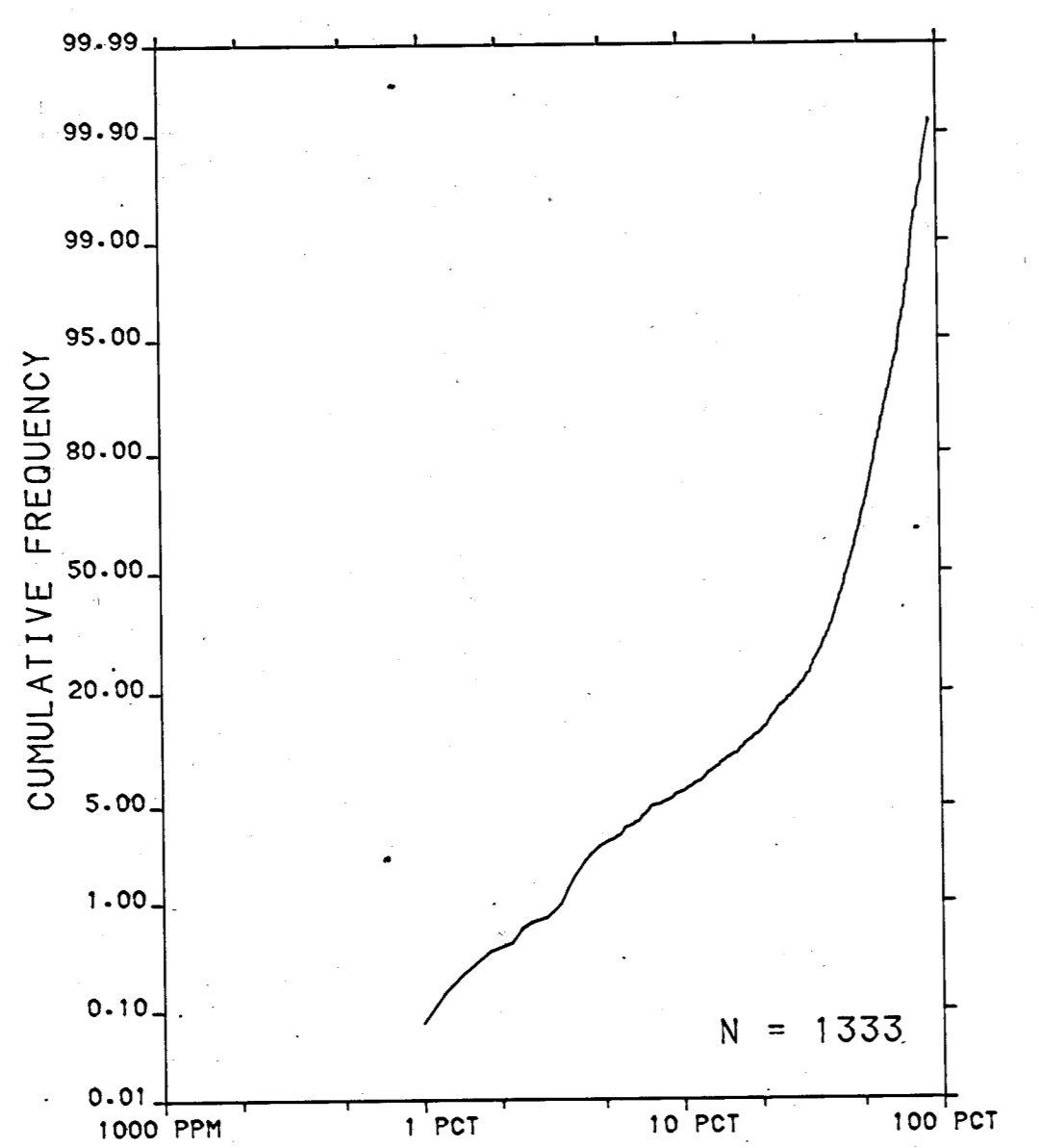


LOI
 PCT X TILE
 93.8 MAX
 70.0 95
 50.0 65
 20.0 14
 10.0 6
 0.5 MIN
 1333 SAMPLES

The regional geochemical trend map displayed above utilized a moving weighted average using an inverse distance function (1/d²) to filter out minor irregularities and emphasize broad-scale regional features. Single point anomalies may be suppressed or eliminated, however, geological units which are chemically enriched, or large metallic deposits undergoing weathering would be expected to produce identifiable anomalies.



SURFICIAL GEOLOGY

This legend is common to Open Files 1356 and 1357

PROGLACIAL AND GLACIAL ENVIRONMENTS

Glaciolacustrine Deposits:

- Varved or massive clay and silt
- Fine Sands, sands, and deltaic sand

Glaciofluvial and Ice Contact Deposits:

- Outwash sands and gravel
- End moraine, interlobate moraine; sand, gravel and boulders
- Esker or kame complex; sand, gravel, boulders

Glacial Deposits:

- Predominantly clayey till
- Predominantly silty to sandy till

NONGLACIAL ENVIRONMENT

- Bedrock

Complexes: when two or more types of glacial or non-glacial environment are interspersed in a mosaic or repeating pattern, the relative dominant/subordinate amount of each type is indicated by sequential order. For example, 2/1 indicates predominantly silty to sandy till with lesser clayey till.

SYMBOLS

- Surficial geological boundary
- Striae
- Fluting, drumlin or drumlinoid ridge
- Esker, kame or kame complex

Surficial geology derived from:
 Boissonneau, A.N. (1965), Map S465, Ontario Department of Lands, Forests,
 Prest, V.K., Grant, D.R., and Rampton, V.N. (1969), Glacial Map of
 Canada, Geological Survey of Canada, Map 1253A (Scale: 1:5 000 000).

Geological Survey of Canada
 Mineral Resources Division
 Exploration Geochemistry Subdivision

CONTRACTORS

Sample collection by SIAL Geophysique Inc., Montreal
 Sample preparation by Golder Associates, Ottawa

Sediment chemical analyses by Barringer Magenta Ltd., Rexdale, Ontario

Au analyses by Chemex Labs Limited, Vancouver
 Water chemical analyses by Barringer Magenta Laboratories
 (Alberta) Ltd., Calgary

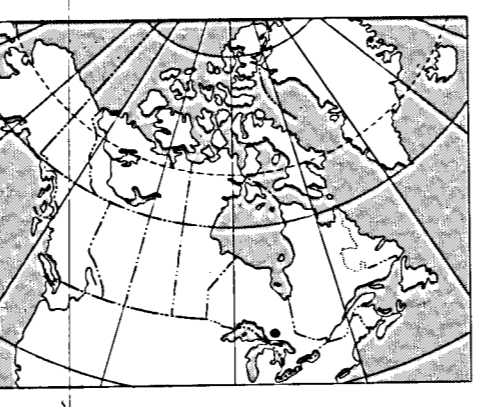
Contribution to Canada - Ontario Mineral Development
 Agreement 1986 - 1990, a subsidiary agreement under the
 Economic and Regional Development Agreement. Project
 funded by the Geological Survey of Canada.



Energy, Mines and Resources Canada / Énergie, Mines et Ressources Canada



CONCENTRATION	FREQUENCY
70.1 to 93.8	N = 70 (5.3%)
50.1 to 70.0	N = 383 (28.7%)
20.1 to 50.0	N = 705 (52.9%)
10.1 to 20.0	N = 93 (7.0%)
<1.0 to 10.0	N = 82 (6.2%)



Elevation in feet above mean sea level
 Mean magnetic declination 1987, 8°20' West, increasing
 10.9' annually. Readings vary from 9°07'W in the SE corner
 to 7°30'W in the NW corner of the map area

**LOSS ON IGNITION (%)
 LAKE SEDIMENTS
 GSC OPEN FILE 1357
 REGIONAL GEOCHEMICAL RECONNAISSANCE MAP 93-1986
 CANADA - ONTARIO
 MINERAL DEVELOPMENT AGREEMENT (1986-1990)
 LAKE SEDIMENT AND WATER GEOCHEMICAL SURVEY
 CENTRAL ONTARIO, 1986**

Scale 1:250 000 - Échelle 1/250 000
 Kilometres / Kilomètres
 Universal Transverse Mercator Projection / Projection transversale universelle de Mercator
 © Crown Copyrights reserved / © Droits de la Couronne réservés

Base map at the same scale published by
 the Surveys and Mapping Branch in 1979

- LEGEND**
- PRECAMBRIAN**
- LATE PRECAMBRIAN**
- 11 LPAC* Carbonatite - alkalic complexes; alkalic syenite, pulaskite, brecciated and fenitized rocks, nepheline syenite, sovite, magnetite-apatite rock, urtite, ijolite, meltegitte
- EARLY TO MIDDLE PRECAMBRIAN**
- 10 LPAD Diabase dykes
- EARLY PRECAMBRIAN (ARCHEAN)**
- 9 ASUB Shawmere Anorthosite Complex; anorthosite to gabbro, gneissic to flaser-textured tonalite and monzonite
 - 8 AKN Kapuskasing structural zone rocks; meta-igneous rocks, melanocratic granulite, pelitic and psammitic granulites, metasedimentary gneiss and arkosic metasediments
 - 7 AGM Massive felsic to intermediate plutonic rocks; granite, granodiorite, tonalite, quartz monzonite, monzodiorite, pegmatite
 - 6 AGN Foliated to gneissic felsic to intermediate plutonic rocks; granite, granodiorite, tonalite, quartz monzonite, diorite, migmatite
 - 5 AUB Mafic and ultramafic intrusive rocks, including gabbro, diorite and serpentinized ultramafics
 - 4 ASGN Paragneiss, orthogneiss and migmatite
 - 3 ACSF Metasediments; grewacke, arkose, quartzite, conglomerate, argillaceous and migmatized metasediments, biotite-quartz-feldspar schist and gneiss
 - 2 AMWF Felsic to intermediate metavolcanics; rhyolite to dacite flows and fragmentals, tuff, lapilli-tuff, agglomerate, breccia, porphyritic flows
 - 1 AMWB Mafic to intermediate metavolcanics; basalt to andesite flows, porphyritic flows, and pillow lavas, mafic pyroclastics, layered amphibolite, diorite, gabbro, migmatized mafic metavolcanics
- IF Iron formation

*A mnemonic code assigned to rock types and recorded as part of field observations.

- Geological boundary:
- Fault:
- No analytical results:

The geology base and legend for these geochemical maps were derived from: Geology - Chapleau - Foley, Map 2221 Geological Compilation Series, Ontario Department of Mines, 1:253 400, McDrank, G.F.D., Misiura, J.D., and Brown, P.A. (1979), Geology - Plutonic Rocks in Ontario, Geological Survey of Canada Map 1533A, to accompany GSC Paper 80-23.

Copies of map material and listings of field observations, analytical data and methods, from which the open file was prepared, are available from:

K.G. Campbell Corporation
 880 Wellington St.
 Bay 238
 Ottawa, Ontario
 K1R 6K7

Digital data are available on IBM-PC compatible diskette from:

Geological Survey of Canada
 Publications Distribution
 601 Booth St.
 Ottawa, Ontario K1A 0E8
 Tel: (613)995-4342

This map has been reprinted from a scanned version of the original map. Reproduction par numérisation d'une carte sur papier.