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

Mafic to intermediate metavolcanics; basalt to andesite flows, porphyritic flows, and pillow lavas, mafic pyroclastics, layered amphibolite, diorite,

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

Bay 238

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

Geological Survey of Canada Publications Distribution 601 Booth St. Ottawa, Ontario K1A OE8 Tel: (613)995-4342

This map has been reprinted from a scanned version of the original map

Metasediments; greywacke, arkose, quartzite, conglomerate, argillaceous and migmatized metasediments, biotite-quartz-feldspar schist and gneiss Felsic to intermediate metavolcanics; rhyolite to dacite flows and fragmentals, tuff, lapilli-tuff, agglomerate, breccia, porphyritic flows

gabbro, migmatized mafic metavolcanics

Iron formation

The geology base and legend for these geochemical maps were derived from: Geology - Chapleau - Foleyet, Map 2221 Geological Compilation Series, Ontario Department of Mines, 1:253 400. McCrank, 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.

K.G. Campbell Corporation 880 Wellington St. Ottawa, Ontario

Reproduction par numérisation d'une carte sur papier

MANGANESE (ppm) LAKE SEDIMENTS GSC OPEN FILE 1357 CENTRAL ONTARIO, 1986

0 20 40 60 KILOMETERS- SCALE 1:1000000

## 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:

End moraine, interlobate moraine; sand, gravel and boulders

Esker or kame complex; sand, gravel, boulders

Glacial Deposits:

الرَّزِّرُدُ 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.

Fluting, drumlin or drumlinoid ridge ..... 

Surficial geology derived from: Boissonneau, A.N. (1965), Map S465, Ontario Department of Lands, 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

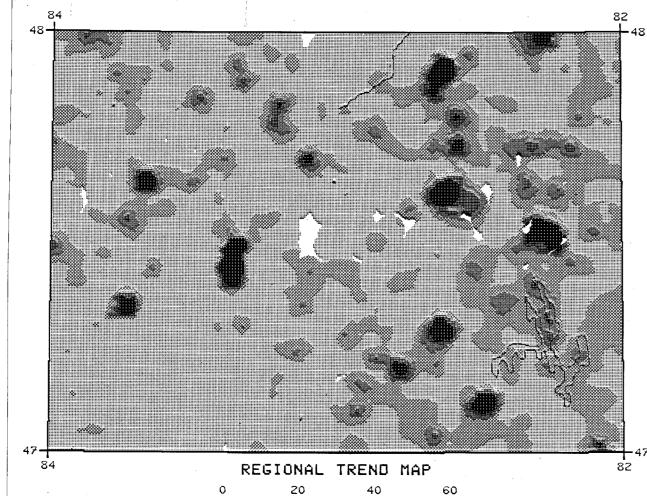
Sample collection by SIAL Geophysique Inc., Montreal Sample preparation by Golder Associates, Ottawa

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

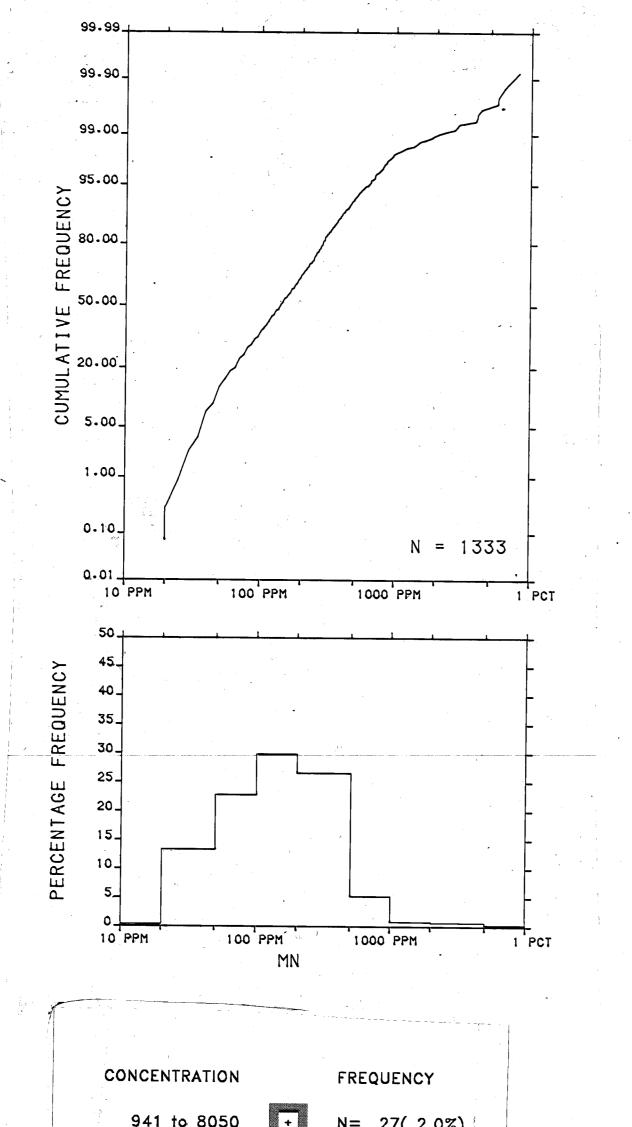
Contribution to Canada - Ontario Mineral Development Agreement 1986 - 1990, a subsidiary agreement under the Economic and Regional Development Agreement. Project funded by the Geological Survey of Canada.

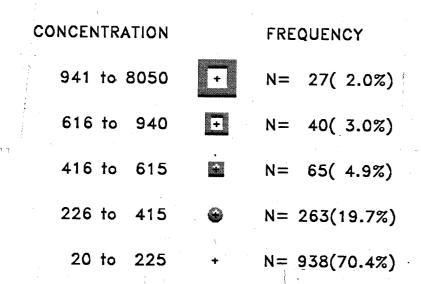
Energy, Mines and Énergie, Mines et Resources Canada Ressources Canada

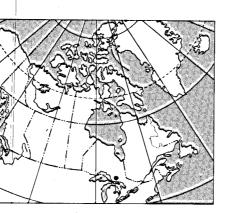


1333 SAMPLES

The regional geochemical trend map displayed above utilized a moving weighted average using an inverse distance function  $(1/d^3)$  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.







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

MANGANESE (ppm) 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 Universal Transverse Mercator Projection Projection transverse universelle de Mercator © Crown Copyrights reserved © Droits de la Couronne réservés

Wharncliffe 88 km

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

O.F. 554:::: R.G.R. 93-1986 O.F. 1356 R.G.R. 92-1986