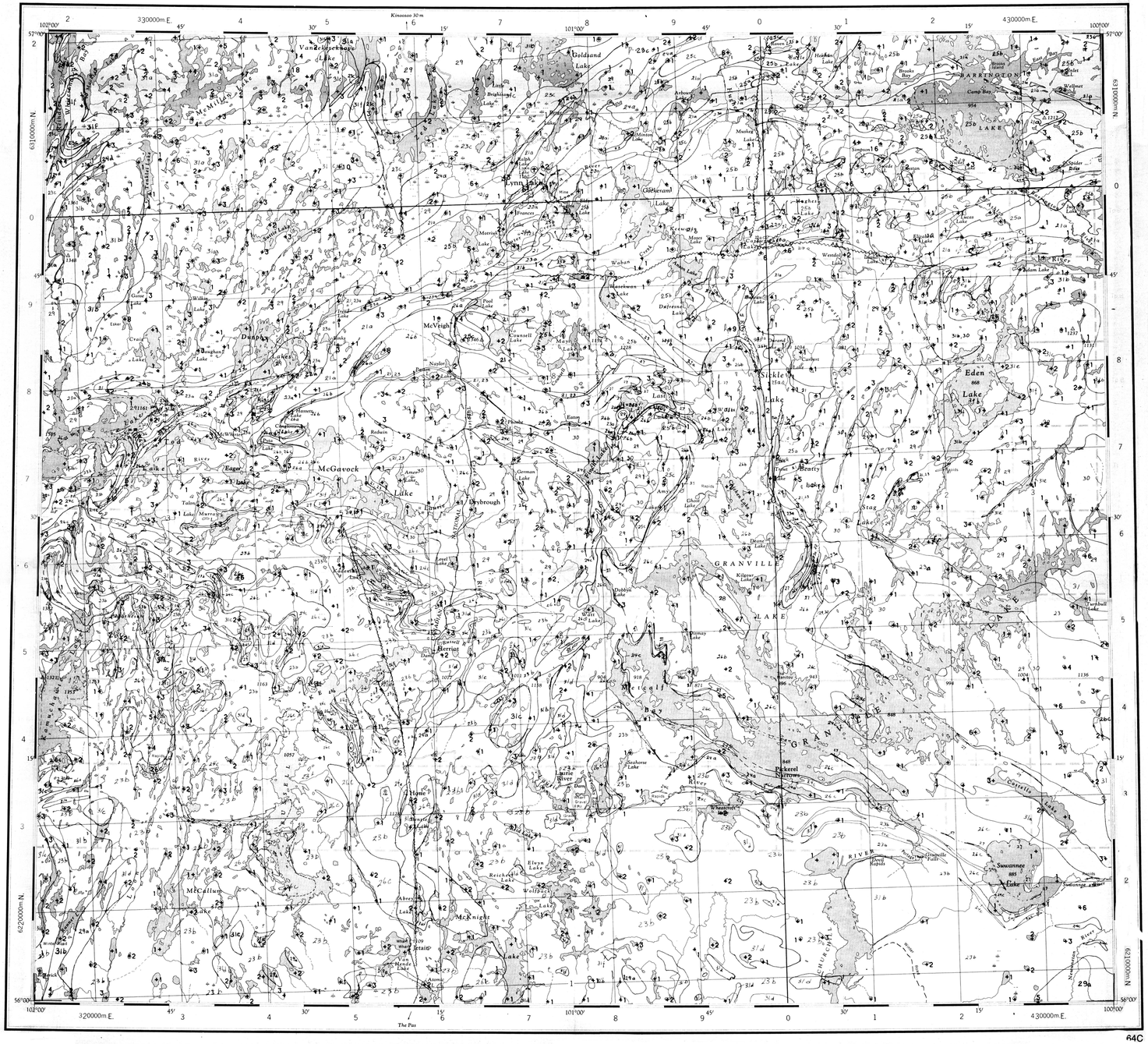
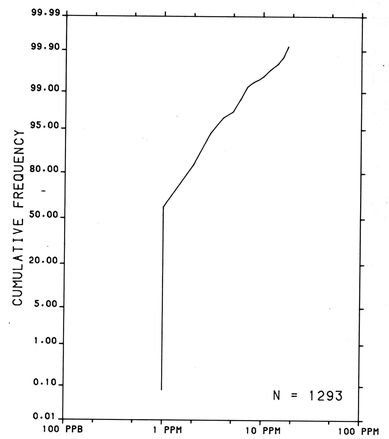
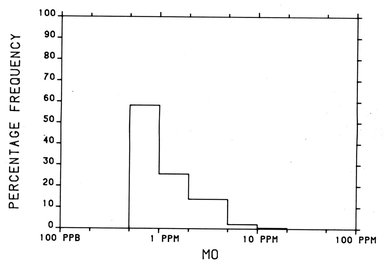
Canada
Department of Energy, Mines and Resources
Geological Survey of Canada

Manitoba
Department of Energy and Mines

64C





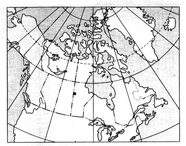


Copies of map material and listings of field observations and analytical data, from which the material was prepared, may be available at users expense by application to:

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

The data are also available in digital form. For further information please contact:

The Director
Computer Science Center
Department of Energy, Mines and Resources
Ottawa, Ontario
K1A 0E4



Elevation in feet above mean sea level

Mean magnetic declination 1984, 11°44.7' East decreasing 16.7' annually. Readings vary from 10°57.4' in the NE corner to 13°05.0' in the SW corner of the map area

MOLYBDENUM (ppm)

GSC OPEN FILE 999

REGIONAL GEOCHEMICAL RECONNAISSANCE MAP 64-1983

CANADA/MANITOBA INTERIM MINERAL AGREEMENT

LAKE SEDIMENT AND WATER GEOCHEMICAL SURVEY

LYNN LAKE AREA, MANITOBA

Scale 1:250 000

Kilometres 6 0 6 12 18 Kilometres

Universal Transverse Mercator Projection

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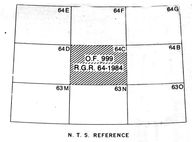
Base-map from map published at the same scale by the Surveys and Mapping Branch in 1963



MOLYBDENUM (ppm)

GSC OPEN FILE 999

LYNN LAKE AREA, MANITOBA

- LEGEND

Note: This legend is common for Regional Geochemical Reconnaissance Map 64-1983, Open File 999

PROTEROZOIC (APHEBIAN)

31(AHIU) GRANITIC INTRUSIVE ROCKS, POST-SICKLE (HUDSONIAN) (AHIA to AHIF)
31a - leucotonalite + magnetite ; 31b - megacrystic granite; 31c - granite, granodiorite ± hornblende; 31d - leucogranite, granodiorite; 31e - monzonite, syenite; 31f - pegmatite

30 GRANITIC INTRUSIVE ROCKS, POST-SICKLE and remobilized PRE-SICKLE
30 - granite, granodiorite (AHIG)

29 INTERMEDIATE INTRUSIVE ROCKS, POST-SICKLE and remobilized PRE-SICKLE
29 - tonalite, granodiorite, quartz diorite (AHIT), 29a - pyroxene tonalite (AHIP)

28 MAFIC INTRUSIVE ROCKS, POST-SICKLE
28 - gabbro, minor ultramafic rock (AHIR)

27 BLACK TROUT INTRUSIVE SUITE
27 - quartz diorite, diorite (ATIQ)

	SICKLE GROUP	SICKLE METAMORPHIC SUITE	
26	ARKOSIC METASEDIMENTARY ROCKS, DERIVED GNEISS 26a - conglomerate (ASAC) 26b - arkosic sandstone (ASAS)	26c - sandstone-derived gneiss, migmatite (ASAN)	SOUTHERN INDIAN GNEISS
	unconformable	conformable ? on Burntwood River M.S.	
25	PRE-SICKLE INTRUSIVE ROCKS 25a - gabbro, norite, ultramafic rock (APIR) 25b - tonalite, granodiorite, diorite (APIT) 25c - granite (APIG)		
	WASEKWAN or SICKLE GROUP	GNEISSIC ROCKS OF PROBABLE WASEKWAN AGE	
24	AMPHIBOLITE, CALC-SILICATE ROCK, METASEDIMENTARY ROCKS 24a - conglomerate, greywacke (AGMC); 24b - felsic gneiss (AGMF)		
	unconformable?		
	WASEKWAN GROUP	BURNTWOOD RIVER METAMORPHIC SUITE	
23	METASEDIMENTARY ROCKS 23a - greywacke, conglomerate, mafic mudstone (AWSW)	24c mafic gneiss, volcanic rock greywacke, quartzite, marble (ABMN) conformable 23b - greywacke-derived gneiss, migmatite (ABSW)	24d - amphibolite, tuff (AIMA) conformable 23c - greywacke-derived gneiss and migmatite (AISW)
22 (AWVI)	FELSIC, INTERMEDIATE VOLCANICS 22a - dacite, rhyolite (AWVD)		
21 (AWVM)	MAFIC, INTERMEDIATE VOLCANICS 21a - basalt, andesite (AWVA) 21b - basalt (AWVB)		

* A four letter mnemonic name recorded as rock type as part of field observations

Geological boundary.....
Fault.....
No analytical result..... *

Provisional Compilation Map: Geology of the Granville Lake Area NTS 64C, by H.V. Zwanzig, Manitoba Dept. of Energy and Mines

Geological Survey of Canada
Resource Geophysics and Geochemistry Division

Manitoba Department of Energy and Mines
Mineral Resources Division

CONTRACTORS

Sample collection by Wollex Exploration
Sample preparation by Golder Associates

Sediment chemical analysis by Chemex Labs Ltd.
Water chemical analyses by Acme Analytical Laboratories Ltd.
Other water chemical analyses by Manitoba Technical Laboratory Services

This map forms one of a series of maps released by the Geological Survey of Canada, Open File 999. The Open File consists of maps of various geochemical variables: 16 for lake sediment, 8 for lake water and 1 sample site location

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MOLYBDENUM (ppm)
GSC OPEN FILE 999
LYNN LAKE AREA, MANITOBA