

**HCO3 in water (ppm)**  
GSC OPEN FILE 999  
LYNNE LAKE AREA, MANITOBA

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

**PROTEROZOIC (APHEBIAN)**

31(AHII) 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-peymatite

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	SOUTHERN INDIAN GNEISS
26 ARKOSIC METASEDIMENTARY ROCKS, DERIVED GNEISS 26a-conglomerate (ASAC) 26b-arkosic sandstone (ASAS)	26c-sandstone-derived gneiss, migmatite (ASAN) <i>conformable</i> <i>on Burntwood River M.S.</i>	
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) <i>unconformable</i>		
WASEKWAN GROUP	BURNTWOOD RIVER METAMORPHIC SUITE	
23 METASEDIMENTARY ROCKS 23a-greywacke, conglomerate, mafic mudstone (AWSW)	23c-mafic gneiss, volcanic rock greywacke, quartzite, marble (ABMW) <i>conformable</i> 23b-greywacke-derived gneiss, migmatite (ABSW)	24d-amphibolite, tuff (AIMA) <i>conformable</i> 23c-greywacke-derived gneiss and migmatite (AISW)
22(AWVI) FELSIC, INTERMEDIATE VOLCANICS 22a-dacite, rhyolite (AWVI)		
21(AWVM) MAFIC, INTERMEDIATE VOLCANICS 21a-basalt, andesite (AWVA) 21b-basalt (AWVB)		

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

\* 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. Zwanig, Manitoba Dept. of Energy and Mines

Geological Survey of Canada  
Resource Geophysics and Geochemistry Division

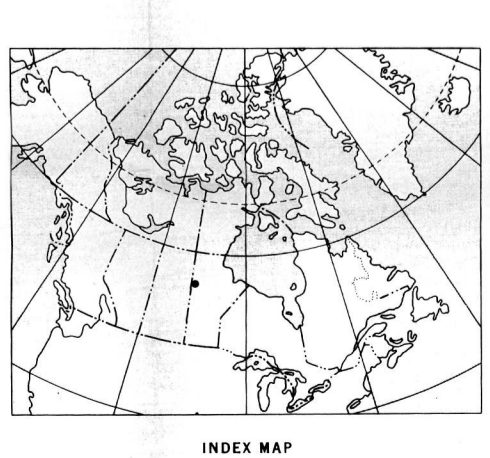
Manitoba Department of Energy and Mines  
Mineral Resources Division

**CONTRACTORS**

Sample collection by Wollax 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

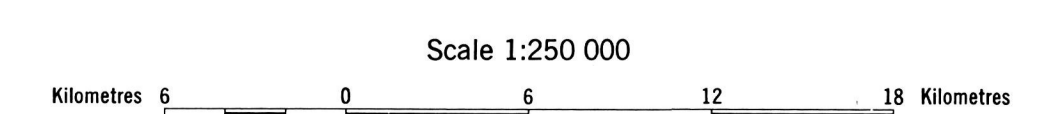


Elevation in feet above mean sea level

Mean magnetic declination 1984, 11°04.7' 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

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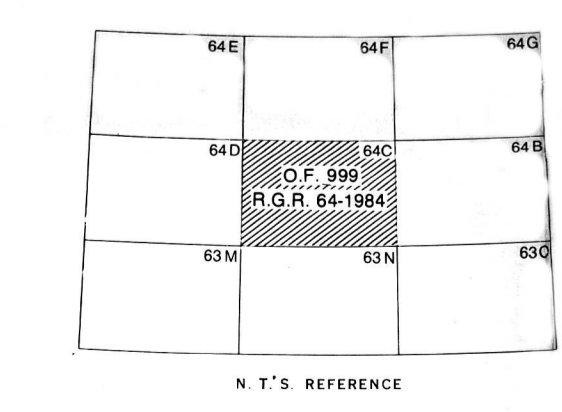
GSC OPEN FILE 999  
REGIONAL GEOCHEMICAL RECONNAISSANCE MAP 64-1983  
CANADA/MANITOBA INTERIM MINERAL AGREEMENT  
LAKE SEDIMENT AND WATER GEOCHEMICAL SURVEY  
LYNNE LAKE AREA, MANITOBA



Scale 1:250 000

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



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