

LEGEND

HADRYNAN
Hb Gabbro sills, sills

AFERIAN
Ap Felsite porphyry
Ag Granodiorite, diorite, quartz diorite
An Migmatite, granite gneiss

CAMERON BAY GROUP
cAv Intermediate porphyritic flow, tuff, agglomerate
cAs Red arkose, conglomerate, shale
Ad Gabbro, diorite

SNARE GROUP
sAs Basalt, tuff, minor chert
sAa Quartzite, dolomite, siltstone, shale

EPWORTH GROUP
eApw RECLUSE FORMATION: argillite, shale, greywacke
eAc ROCKNEST FORMATION: dolomite

ODZICK FORMATION: sandstone, shale, argillite, sandstone
eAsg Metamorphosed Epworth Group

Quartz diorite, quartz monzonite, granodiorite, granite, in part porphyritic
Ag
Granite gneiss, migmatite, mixed gneisses involving Yellowknife rocks
An
Complex of plutonic granitic rocks that may be, in part, older than Yellowknife Supergroup
cAg
Greywacke, shale
yAw
Cordierite-andalusite bearing knotted schist and other metamorphic equivalents of yAw
yAs
Intermediate to basic lava, tuff, agglomerate, and undifferentiated acidic volcanic rocks

MINERALS
Asbestos.....sAb Molybdenum.....Mo
Hemathite.....Hl Nickel.....Ni
Cobalt.....Co Silver.....Ag
Copper.....Cu Thorium.....Th
Lead.....Au Uranium.....U
Gold.....G Zn

Lake Sediment Geochemistry The use of lake sediments as an aid to mineral exploration and provincial mapping within the Canadian Shield is based on two principal concepts of their origin. The first is that the detrital portion of a lithogenic lake sediment is a good composite sample of the rocks in the vicinity of the lake. In perhaps a majority of cases, the material forming the sediment has passed through an intermediate stage of weathering and is derived from the erosion of a local source. The second concept is that the fine-grained portion of the sediment is an excellent indicator of the source of mineralization. The sediment is an excellent indicator of the source of mineralization. The sediment is an excellent indicator of the source of mineralization. The sediment is an excellent indicator of the source of mineralization.

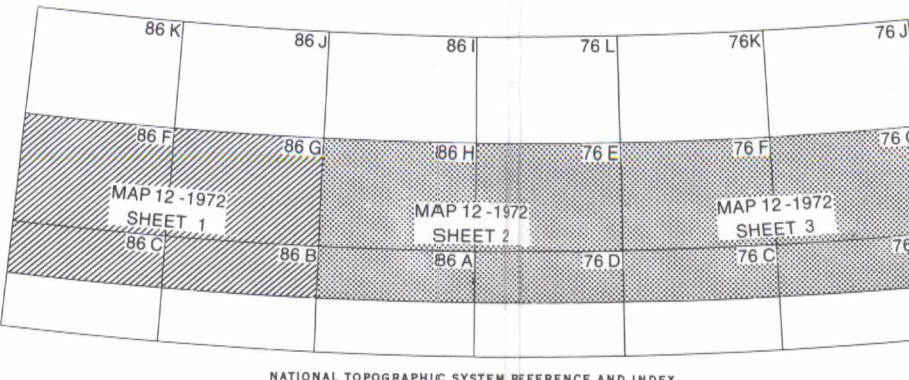
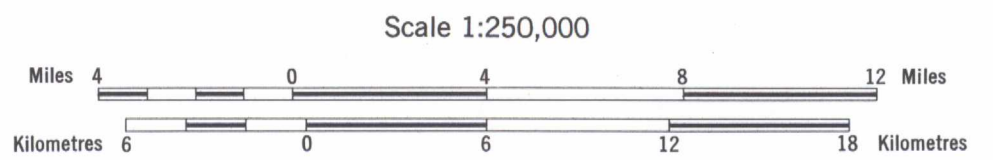
Sampling Methods The lake sediment samples were collected by post-bore auger from a minimum depth of 100 cm. The auger was 1.5 m in diameter and was operated by hand. The auger was 1.5 m in diameter and was operated by hand. The auger was 1.5 m in diameter and was operated by hand.

Geochemical Analysis The sediment samples were dried, then stored in a desiccator until analyzed. The samples were analyzed for manganese, iron, and organic matter by the method of Johnson and Lindsley (1971). The method of Johnson and Lindsley (1971) is a modification of the method of Johnson and Lindsley (1967). The method of Johnson and Lindsley (1971) is a modification of the method of Johnson and Lindsley (1967).

Results The results of the analysis are shown in the table below. The table shows the results of the analysis for manganese, iron, and organic matter. The table shows the results of the analysis for manganese, iron, and organic matter. The table shows the results of the analysis for manganese, iron, and organic matter.

**MANGANESE, IRON AND ORGANIC MATTER
CONTENT OF LAKE SEDIMENTS
BEAR-SLAVE OPERATION
DISTRICT OF MACKENZIE**

MAP 12-1972
SHEET 1



G
3401
CS
1956
G4
omvfc
s1 c1