Manitoba
Industry, Trade and Mines

Preliminary Map Number: 2000S-3

N.T.S. parts of 53L/5NW, 12SW

GEOLOGY OF THE SOUTHEAST MAX LAKE AREA

Legend

PRECAMBRIAN (ARCHEAN)

Intrusive rocks

7 Leucogabbro, diabase

6 Granitoid rocks and related gneisses: tonalite, granodiorite, granite; minor plagioclase porphyry, pegmatite, aplite; hybrid gneiss derived from units 1 and 6

(6a) Granite, massive; related aplite and pegmatite

(6b) Granodiorite and granite, massive to gneissoid; minor K-feldspar blastic granodiorite-granite; minor pegmatite

(6c) Tonalite and granodiorite, gneissoid

(6d) Hornblende quartz diorite to diorite

(6e) Tonalite, plagioclase-phyric; minor felsitic *lits*

(6f) Hybrid gneiss (derived from units 1 and 6)

5 Gabbro, minor pyroxenite and hornblendite (Lavigne Lake gabbro; McLeod Narrows gabbro); diabase

(5a) Gabbro, mesocratic to melanocratic

(5b) Pyroxenite, hornblendite

(5c) Diabase

(5d) Magnetiferous quartz diorite, diorite

Volcanic and sedimentary rocks

4 Rhyolite, massive to fragmental; heterolithic breccia, minor related sedimentary rocks; plagioclase ± quartz porphyry (subvolcanic sill)

(4a) Rhyolite, massive to fragmental

(4b) Heterolithic volcanic breccia and tuff

(4c) Volcanic-derived conglomerate, feldspathic greywacke and siltstone

(4d) Plagioclase ± quartz porphyry

3 Heterolithic volcanic breccia and associated tuff; related sedimentary rocks

(3a) Heterolithic volcanic breccia and tuff, mafic to felsic fragments

(3b) Heterolithic volcanic breccia and tuff, felsic and minor intermediate fragments

(3c) Volcanic-derived conglomerate, greywacke and siltstone

2 Sedimentary rocks; altered supracrustal rocks

(2a) Oxide-facies iron-formation

(2b) Siltstone, feldspathic greywacke, minor chert

(2c) Altered garnetiferous supracrustal rocks

1 Basalt, related fragmental and intrusive rocks; derived laminated amphibolite, schist and gneiss

(1a) Aphyric basalt; minor plagioclase-phyric basalt and related gabbro

(1b) Basalt pillow-fragment breccia, flow-top breccia

(1c) Gabbro, minor hornblendite

(1d) Gabbro, megaphyric to glomeroporphyritic

(1e) Amphibolite, related gneiss and schist

(1f) Spherulitic pillowed basalt

Note: units in grey do not appear on this map

Symbols

- Geological contact: approximate, assumed, underwater
- Bedding: tops known, overturned; tops unknown
- Pillows: tops known, overturned, tops unknown
- Igneous layering: tops known, tops unknown
- Volcanic flow contact: tops known, tops unknown
- Foliation: inclined, vertical
- Pillow flattening
- Axial trace of syncline, overturned
- Microcrenulation
- Mineral lineation
- Fold axis
- S, Z and symmetrical folds
- Axial plane
- Fault: defined, inferred
- Shear zone
- Oxide-facies iron-formation (2a)
- Dyke
- Limit of geological mapping

Mineralization		Alteration	
PY	Pyrite	G	Garnetite
CP	Chalcopyrite	C	Carbonatization
SH	Sphalerite	E	Epidotization
Au	Gold	Gn	Gossan
Ni	Nickel	S	Silicification

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This map supersedes Preliminary Map 1999S-1

This map is a provisional summary of work carried out during the summer field season and is printed directly from the geologist's manuscript. It is not to be regarded as a final interpretation of the geology of the area.

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Scale 1:20 000

1 0 1 2

kilometres

Reference: Gilbert, H. P. 2000: Geology of the southeast Max Lake area (parts of NTS 53L/5NW, 12SW); Manitoba Industry, Trade and Mines, Preliminary Map 2000S-3, scale 1:20 000.