



Geology of the southeast Max Lake area, Manitoba  
(parts of NTS 53L5NW and 12SW)

**Legend**

**PRECAMBRIAN (ARCHEAN)**

**Intrusive rocks**

**P7** Leucogabbro, diabase

**P6** Granitoid rocks and related gneiss: tonalite, granodiorite, granite; minor plagioclase porphyry, pegmatite, aplite, hybrid gneiss

**P6a** Granite, massive; related apite and pegmatite

**P6b** Granodiorite and granite, massive to gneissoid; minor K-feldspar-blastic granodiorite-granite; minor pegmatite

**P6c** Tonalite and granodiorite, gneissoid

**P6d** Hornblende quartz diorite to diorite

**P6e** Tonalite, plagioclase phyrlic; minor felsitic lts

**P6f** Hybrid gneiss (derived from units O1, J1 and P6)

**P5** Gabbro, minor pyroxenite, peridotite and hornblende (McLeod Narrows intrusion, Lavigne Lake intrusion); diabase

**P5a** Gabbro, mesocratic to melanocratic

**P5b** Pyroxenite, hornblende; peridotite

**P5c** Diabase

**P5d** Magnetiferous quartz diorite, diorite

**Volcanic and sedimentary rocks of juvenile-arc affiliation**

**J4** Rhyolite, massive to fragmental; heterolithic breccia, minor related sedimentary rocks; plagioclase-quartz porphyry

**J4a** Rhyolite, massive to fragmental

**J4b** Heterolithic volcanic breccia and tuff

**J4c** Volcanic-derived conglomerate, feldspathic greywacke and siltstone

**J4d** Plagioclase-quartz porphyry

**J3** Heterolithic volcanic breccia and associated tuff; related sedimentary rocks

**J3a** Heterolithic volcanic breccia and tuff, mafic to felsic fragments

**J3b** Heterolithic volcanic breccia and tuff, felsic and minor intermediate fragments

**J3c** Volcanic-derived conglomerate, greywacke and siltstone

**J2** Sedimentary rocks; altered supracrustal rocks

**J2a** Oxide-facies iron formation

**J2b** Siltstone, feldspathic greywacke, minor chert

**J2c** Altered garnetiferous supracrustal rocks

**J1** Basalt, related fragmental and synvolcanic intrusive rocks; derived laminated amphibolite, schist and gneiss

**J1a** Aphritic basalt; minor plagioclase-phyric basalt and related gabbro

**J1b** Basaltic pillow-fragment breccia, flow-top breccia

**J1c** Gabbro, locally plagioclase phyrlic; minor hornblende

**J1d** Gabbro, megaphyrlic

**J1e** Amphibolite, related gneiss and schist

**J1f** Spherulitic pillowed basalt

**Volcanic rocks of ocean-floor affiliation**

**O1** Basalt, related fragmental and synvolcanic intrusive rocks; derived laminated amphibolite, schist and gneiss

**O1a** Aphritic basalt; minor plagioclase-phyric basalt and related gabbro

**O1b** Basaltic pillow-fragment breccia, flow-top breccia

**O1c** Gabbro, locally plagioclase phyrlic; minor hornblende

**O1d** Gabbro, megaphyrlic or glomeroporphyritic

**O1e** Amphibolite, related gneiss and schist

**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

Axial trace of syncline, overturned

Microcrenulation

Mineral lineation

Fold axis

Fold type: S, Z, symmetrical folds

Axial plane

Fault: defined, inferred

Shear zone

Dike

Limit of geological mapping

Note: Subunits with descriptions in grey do not appear on this map

Mineralization

Alteration

PY Pyrite

CP Chalcopyrite

SH Sphalerite

Au Gold

Ni Nickel

Carbonatization

Epidotization

Gossan

Silicification

Geology by: H.P. Gilbert (1999-2000)

Cartography by: M. Timcoe

Index Map

Scale 1:20 000

0 1 2 3 kilometres

