



**Legend**

**Post-Sickle intrusive rocks (<1860 to 1800 Ma)**

**22** Quartz porphyry, quartz-feldspar porphyry, tonalite, and diabase

a) Quartz porphyry, quartz-feldspar porphyry  
b) Fine-grained tonalite, porphyritic tonalite  
c) Diabase

**21** Aplitic, aplitic granite, pegmatite, and graphic granite

a) Aplitic, aplitic granite  
b) Pegmatite, graphic granite

**20** Granite, granodiorite

**19** Quartz diorite, tonalite, granodiorite, and dioritic gneiss; migmatite

a) Hornblende-biotite granodiorite  
b) Tonalite, quartz diorite  
c) Layered dioritic and quartz dioritic gneiss  
d) Migmatite with granitoid rocks and enclaves of units 4 to 9

**18** Gabbro, minor ultramafic rock, diabase, diorite, and plutonic breccia

a) Gabbro, minor ultramafic rock  
b) Diabase  
c) Diorite  
d) Plutonic breccia

**Sickle group (~1860 to 1830 Ma?)**

**17** Sandstone, greywacke, derived schist and gneiss

a) Arkosic sandstone, pebbly sandstone  
b) Muscovite-bearing arkose, pebbly arkose  
c) Greywacke  
d) Hornblende-bearing psammitic gneiss, calcareous sandstone  
e) Biotite-bearing psammitic gneiss  
f) Quartz-feldspar-muscovite schist, arkosic sandstone  
g) Sillimanite-bearing arkosic gneiss

**16** Polymictic conglomerate with quartz-feldspar porphyry, sedimentary, volcanic and granitoid clasts

a) Conglomerate, arkose matrix  
b) Conglomerate, greywacke matrix/hornblende

**Burntwood group (~1845 to 1835 Ma)**

**15** Greywacke, siltstone, mudstone, and minor volcanic rocks; migmatite

a) Biotite/garnet-bearing greywacke, migmatite  
b) Biotite-sillimanite-garnet-bearing greywacke-mudstone, migmatite

**Zed Lake greywacke/Ralph Lake conglomerate**

**14** Conglomerate with sedimentary, volcanic and granitoid clasts, greywacke, siltstone, schist, and migmatite

a) Conglomerate, hornblende greywacke matrix  
b) Conglomerate, biotite greywacke matrix  
c) Biotite greywacke, siltstone, minor argillite  
d) Biotite/garnet-bearing greywacke to mudstone migmatite  
e) Layered and massive amphibolite, calc-silicate rock

**Pre-Sickle intrusive rocks (<1910 to 1870 Ma)**

**13** Granodiorite, granite, minor syenite, aplitic, pegmatite, and granite gneiss

a) Granite, granodiorite  
b) Pegmatite, aplitic  
c) Syenite  
d) Aplitic granite  
e) Granite and granite gneiss, massive to porphyritic; pegmatite and alaskite

**12** Diorite, quartz diorite, tonalite and granodiorite, and migmatite

a) Diorite, quartz diorite  
b) Hornblende-biotite tonalite, quartz diorite  
c) Granodiorite, tonalite  
d) Migmatite with granitoid rocks and enclaves of units 3 to 9

**11** Gabbro, norite, diorite, ultramafic rock, diabase and related amphibolite and schist; gneiss

a) Norite, gabbro/norite, minor gabbro, hornblende gabbro, biotite-hornblende gabbro  
b) Pegmatitic hornblende gabbro  
c) Amphibolite, garnet amphibolite, hornblende gneiss  
d) Hornblende, biotite hornblende  
e) Diabase, related amphibolite and schist  
f) Diorite, biotite diorite

**10** Hornblende diorite and quartz diorite

**9** Gabbro and diabase

**Wasekan tectonic collage (1910 to 1860? Ma)**

**8** Sedimentary rocks and paragneiss

a) Pebbly greywacke, paraconglomerate  
b) Hornblende greywacke, siltstone  
c) Biotite greywacke, siltstone, mudstone  
d) Quartz-rich greywacke  
e) Siltstone and mafic mudstone  
f) Mafic mudstone, tuff, greywacke  
g) Chert  
h) Argillite  
i) Porphyroblastic schist  
j) Iron formation  
k) Psammitic gneiss  
l) Semipelitic gneiss  
m) Pelitic gneiss  
n) Sillimanite gneiss and schist  
o) Hornblende-plagioclase-biotite gneiss  
p) Migmatite

**7** Conglomerate, pebbly mudstone, and volcanic breccia

a) Quartz-pebble conglomerate  
b) Conglomerate with volcanic and sedimentary clasts  
c) Pebbly mudstone  
d) Polymictic volcanic breccia, conglomerate

**6** Rhyolite, hyaloclastite, breccia, tuff, and felsic gneiss

a) Massive aphyric rhyolite  
b) Massive porphyritic rhyolite  
c) Porphyritic breccia  
d) Hyaloclastite  
e) Tuff

**5** Dacite, breccia, tuff, and schist

a) Massive aphyric dacite  
b) Massive porphyritic dacite  
c) Breccia  
d) Tuff  
e) Altered dacite, schist

**4** Intermediate to felsic volcanic and volcanoclastic rocks

a) Andesite  
b) Porphyritic dacite  
c) Intermediate tuff, lapilli tuff  
d) Pyroclastic breccia

**3** Mafic and intermediate volcanic rocks, amphibolite, schist and gneiss

a) Massive porphyritic and aphyric basalt and andesite  
b) Pillowed basalt and andesite  
c) Autoclastic breccia  
d) Polymictic breccia  
e) Mafic tuff  
f) Intermediate schist and gneiss  
g) Garnetiferous amphibolite  
h) Andesite  
i) Mafic to intermediate schist and gneiss  
j) Intermediate to felsic schist and gneiss  
k) Undivided amphibolite and intermediate rocks

**2** Mafic volcanic rocks, tuff, breccia and amphibolite

a) Massive basalt  
b) Pillowed basalt  
c) Autoclastic breccia  
d) Porphyritic and aphyric basalt  
e) Tuff  
f) Banded amphibolite, breccia  
g) Mafic porphyry

**1** Basalt, breccia, hyaloclastite, tuff and amphibolite

a) Massive basalt  
b) Pillowed basalt  
c) Pillow breccia, hyaloclastite  
d) Tuff  
e) High-magnesian basalt, tuff, ultramafic rock, amphibolite  
f) Layered and massive amphibolite, calc-silicate rock

**Geological symbols**

Contact: defined, approximate, assumed, assumed gradational, geophysical

Fault, approximate

Syncline, approximate: generation 1, overturned

Anticline, approximate: generation 1, overturned

Limit of exposure

Limit of mapping

Outcrop

**Infrastructure symbols**

Road, loose surface: all-weather, winter

Railway track

Power line

Trail

**Structure Symbols**

Bedding: tops known, tops unknown, overturned

Pillows: tops known, tops unknown, overturned

Foliation: generation 1, generation 2

Flow contact: tops known, tops unknown

Igneous layering, tops unknown

Gneissosity, generation unknown

Cleavage, spaced, generation unknown

Lineation: type unknown, rodding, mineral lineation

Fold axis, generation unknown: symmetry unknown, symmetric, S-shaped, M-shaped

Fold axial plane, generation unknown

