



Legend

PALEOPROTEROZOIC ROCKS

- 5** Mafic and ultramafic dikes
- 5A** Diabase dikes; up to a few metres wide, aphanitic to fine grained, crosscut unit 5B gabbroic dykes
- 5B** Gabbro dikes; up to 50 m wide, medium to coarse grained, massive to weakly foliated, composed of amphibole-plagioclase+pyroxene

ARCHEAN FELSIC INTRUSIVE ROCKS

- 4** Granitoid injections and pegmatite (form intrusive veins and bodies in units 1 to 3)
- 4A** Granitic injection veins, sheets and bodies; leucocratic, locally contains up to 5 cm aggregates of biotite+garnet+amphibole+pyroxene retrogressed to mainly chlorite (chlorite clotted texture); pre-, syn- and post-D2 phases can be distinguished
- 4B** Grey tonalite; fine to medium grained, massive to weakly foliated
- 4C** Granitoid pegmatite, schlieric layered to massive; forms dikes in units 1-3, 4A and 4B
- 3** Granodiorite and derived gneissic rocks
- 3A** Granodiorite augen gneiss; locally up to 25% biotite+amphibole

↑ Pale colours indicate units extrapolated between outcrop areas.

- 3B** Leucogranodiorite and derived gneiss; containing biotite±amphibole, locally straight layered to mylonitic
 - 3C** Granodiorite L-tectonite; strongly rodded and linedated, containing biotite±amphibole
 - 2** Amphibolite rafts; hornblende to metadiorite composition, rare metapyroxenite; form up to 10 m wide, discontinuous zones of angular to rounded, partially resorbed xenoliths in unit 3 granodiorite and derived gneissic rocks
 - 1** Restite; composed of garnet+feldspar+cordierite
- ARCHEAN GULL RAPIDS SUPRACRUSTAL ROCKS**
- 2** Metasedimentary rocks
Metagreywacke; interlayered pelite and psammite, medium to dark grey, Fe-rich, composed of quartz+biotite±feldspar±garnet±amphibole±staurolite±cordierite; locally arkosic with calcillite layers; contains up to 80% unit 4 granitoid injection
 - 1** Banded oxide-, sulphide- and silicate-facies iron formation; composed of quartz-chert-magnetite+hematite±garnet±biotite±amphibole±sulphides; form discontinuous boudinaged layers in unit 2 metasedimentary rocks
 - 1** Ultramafic and polymict metaconglomerate; form rare lenses in unit 2 metasedimentary rocks
 - 1** Mafic volcanic rocks
Amphibolite interpreted as metabasalt, massive to laminated, composed of hornblende+plagioclase±epidote±chlorite; interlayered with and intruded by medium- to coarse-grained amphibolite interpreted as metagabbro; contains unit 4 granitoid injection and (±orthopyroxene-bearing) mobilizate

Symbols

- Layering**
- bedding, topping unknown
- Foliations**
- foliation; generation unknown
 - gneissosity; generation unknown
- Shear zone**
- dextral shear
 - sinistral shear
 - shear sense unknown
- Fault**
- dextral fault
 - sinistral fault
 - fault movement unknown
- Lineation**
- lineation
 - minor fold axis
 - axial plane of minor fold
- Contacts**
- defined
 - approximate
- Fault and shear zone**
- fault
 - shear zone
 - late brittle deformation zone

Geology of the Gull Rapids area, Manitoba (part of NTS 54D6)

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This map is a provisional summary of work carried out during the summer field season and is produced 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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