



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

- 3B** Leucogranodiorite and derived gneiss; containing biotite+amphibole, locally straight layered to mylonitic
- 3C** Granodiorite L-tectonite; strongly rodded and lineated, 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
- 1** Metagreywacke; interlayered pelite and psammite, medium to dark grey, Fe-rich, composed of quartz+biotite+feldspar+garnet+amphibole+staurolite+cordierite; locally arkosic with calcillate layers; contains up to 80% unit 4 granitoid injection
- 2** 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
- 1** 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**
- 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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