

396 000

398 000

400 000

402 000

**Legend**

**Paleoproterozoic**

**Intrusive rocks and tectonite zone**

- 11 Monzogranite: homogeneous, equigranular, fine- to medium-grained, biotite-bearing, massive to weakly foliated
- 10 Granodiorite: homogeneous, massive to weakly foliated, medium- to coarse-grained, equigranular, biotitehornblende-magnetite-bearing
- 9 Peridotite, pyroxenite: moderately foliated, medium- to coarse-grained, intensely altered (serpentine, talc and/or chlorite)
- 8 Diorite: medium- to coarse-grained, equigranular, massive to weakly foliated, with potholes and irregular veins of leucocratic material
- 7 Melagabbro, gabbro-norite: homogeneous, medium- to coarse-grained, magnetite-bearing, massive to moderately foliated

**Layered gabbro sills (Josland sills)**

- 6a Ferrogabbro: homogeneous, medium- to coarse-grained, massive to moderately foliated
- 6a Gabbro: homogeneous, medium- to coarse-grained, magnetite-bearing, massive to moderately foliated

**West Reed-North Star shear zone: mafic tectonites, mylonitic foliation, minor felsic horizons**

- 5

**Gabbro: equigranular, medium-grained, massive to strongly foliated**

- 4

**Fourmile Island assemblage (>1.886 Ga)**

- 3 Volcanic mudstone and siltstone: laminated mudstone, siltstone and fine-grained sandstone

**Rhyolite/dacite**

- 2b Dacitic to rhyolitic crystal and lapilli tuff: massive to thinly bedded, with 5–15% plagioclase phenocrysts (0.5–3 mm), 1–3% quartz phenocrysts (0.5–2 mm) and lapilli-size plagioclase-phyric felsic fragments; minor flows
- 2a Coherent flows, massive to lobes, with flow banding, common micro-breccia facies associated with flow, amygdaloidal, minor horizons of felsic volcanoclastic rocks including lapilli tuff and tuff breccia

**Andesite: aphyric to sparsely plagioclase-phyric, massive to pillowed flows, weakly to strongly foliated, amygdaloidal, common epidote lenses (5–7%), chlorite-bearing**

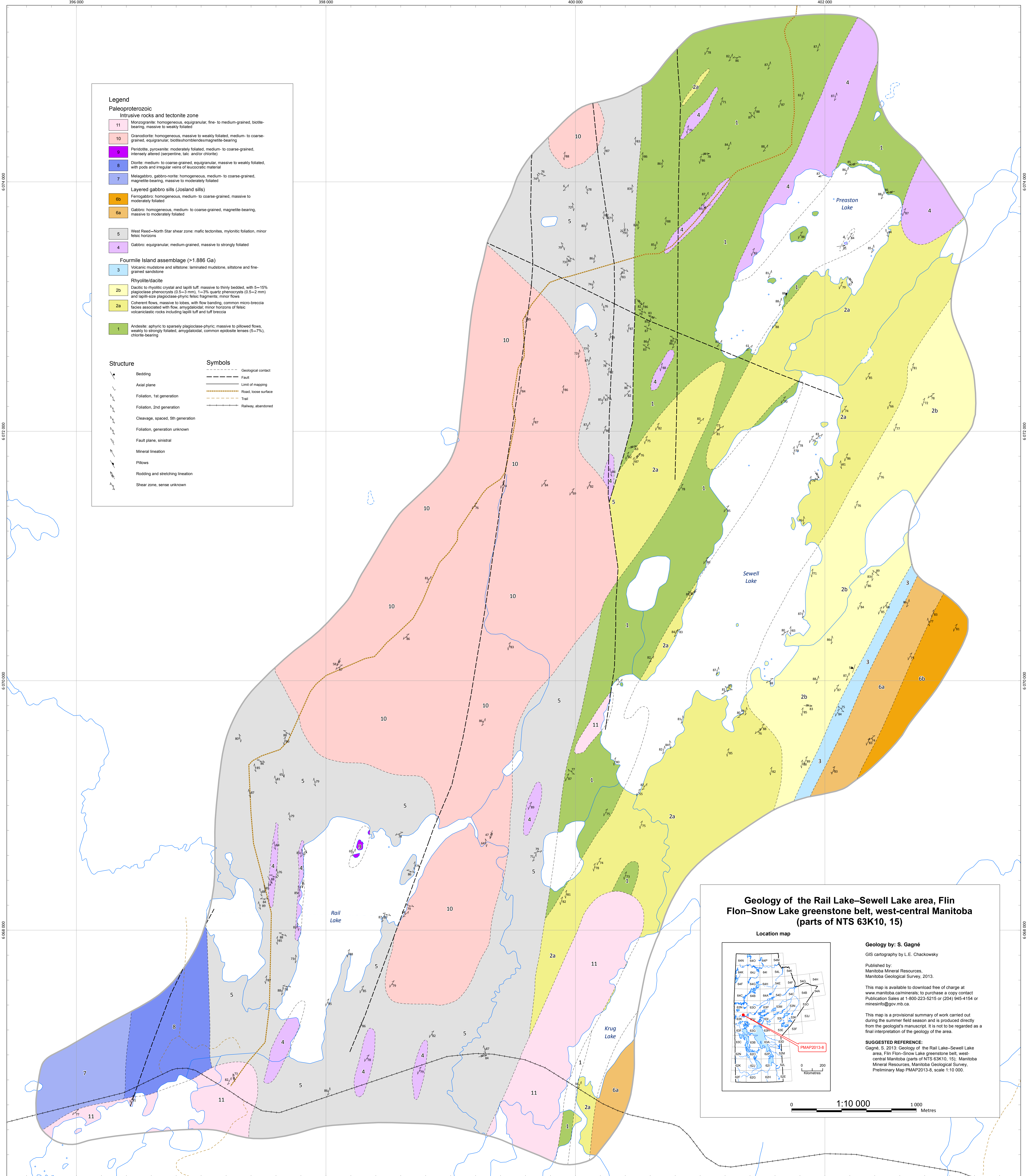
- 1

**Structure**

- Bedding
- Axial plane
- Foliation, 1st generation
- Foliation, 2nd generation
- Cleavage, spaced, 5th generation
- Foliation, generation unknown
- Fault plane, sinistral
- Mineral lineation
- Pillows
- Rodding and stretching lineation
- Shear zone, sense unknown

**Symbols**

- Geological contact
- Fault
- Limit of mapping
- Road, loose surface
- Trail
- Railway, abandoned



**Geology of the Rail Lake–Sewell Lake area, Flin Flon–Snow Lake greenstone belt, west-central Manitoba (parts of NTS 63K10, 15)**

**Location map**

**Geology by: S. Gagné**  
GIS cartography by L.E. Chackowsky

Published by:  
Manitoba Mineral Resources,  
Manitoba Geological Survey, 2013.

This map is available to download free of charge at [www.manitoba.ca/minerals](http://www.manitoba.ca/minerals); to purchase a copy contact Publication Sales at 1-800-223-5215 or (204) 945-4154 or [minresinfo@gov.mb.ca](mailto:minresinfo@gov.mb.ca).

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.

**SUGGESTED REFERENCE:**  
Gagné, S. 2013. Geology of the Rail Lake–Sewell Lake area, Flin Flon–Snow Lake greenstone belt, west-central Manitoba (parts of NTS 63K10, 15). Manitoba Mineral Resources, Manitoba Geological Survey, Preliminary Map PMAP2013-8, scale 1:10 000.

0 1000 2000 Metres

1:10 000