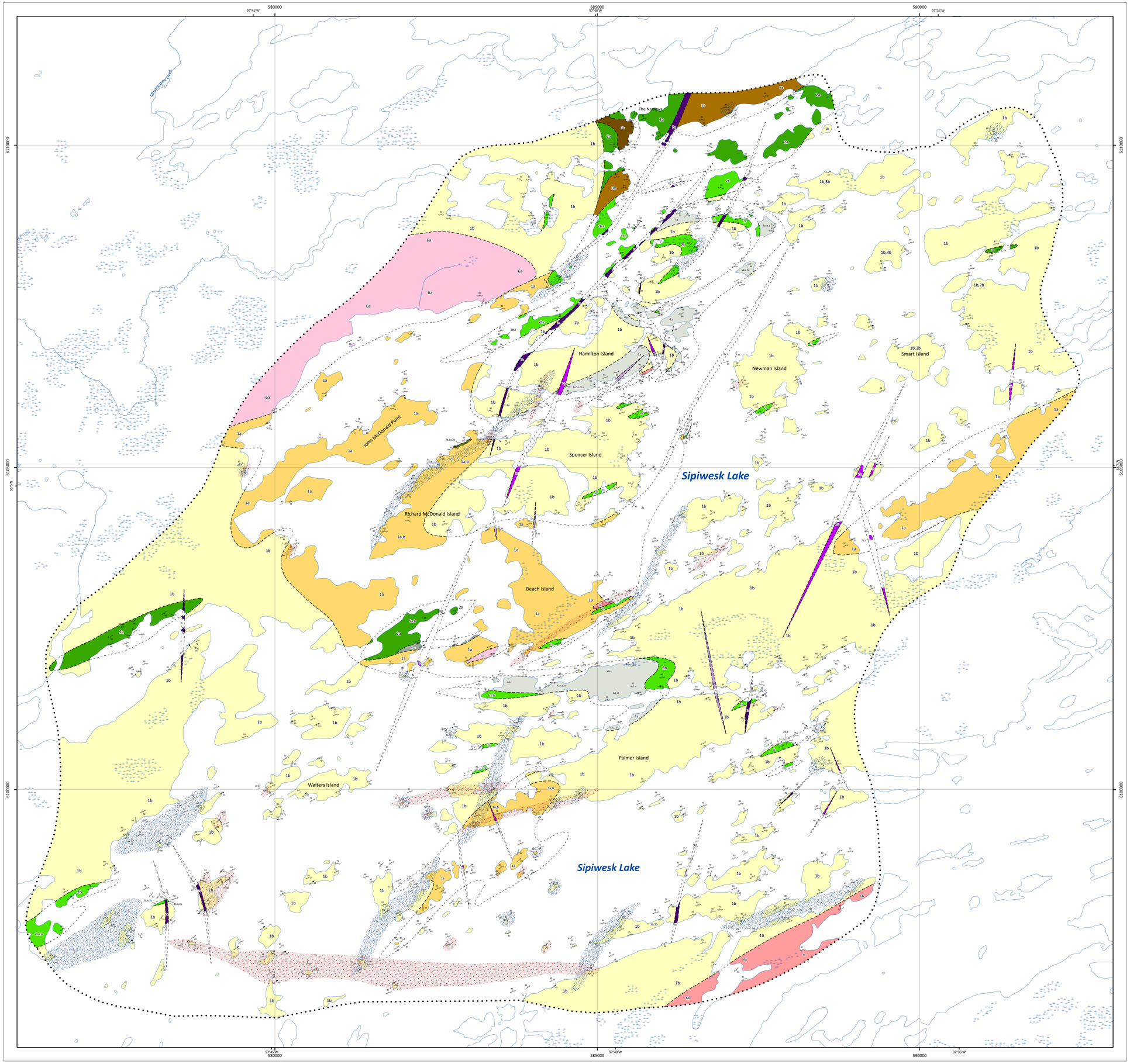


Legend

Paleoproterozoic mafic dikes

- 7c — Diabase: typically <10 m wide, locally with chilled margins
- 7b — Gabbro: typically >10 m wide, local igneous layering, local pegmatitic segregations
- 7a — Ultramafic: typically hornblende peridotite, >10 m wide, local igneous layering, local pegmatitic segregations

Archean post-D_3 intrusions

- 6c — Granitic pegmatite/aplite dikes: typically <3 m
- 6b — Biotite granite: medium to coarse grained, foliated
- 6a — Biotite granodiorite: locally amphibole-bearing, locally K-feldspar porphyritic, foliated

Archean pre- to syn-D_3 rocks

- 5 — Gneissic rocks of unusual bulk composition
  - 5b — Al-Ca gneiss suite: plagioclase and garnet rich with subordinate deep green clinopyroxene, variable quartz and local scapolite; typically forms 0.4–1.0 m thick, discontinuous layers hosted in unit 1b
  - 5a — Al-Mg gneiss suite: cordierite rich with variable orthopyroxene, sapphirine and quartz; typically forms layers <2.5 m thick associated with units 2 and 4a
- 4 — Siliciclastic rocks
  - 4c — Mudstone: quartzofeldspathic diatexite with variable amounts of garnet, orthopyroxene and biotite±cordierite±sapphirine; commonly interlayered with unit 4a, b
  - 4b — Arkosic wacke: quartzofeldspathic metatexite to diatexite with variable amounts of garnet, orthopyroxene, clinopyroxene, biotite and sillimanite; commonly interlayered with unit 4c, rarely interlayered with unit 2
  - 4a — Arkosic arenite: quartzofeldspathic metatexite to diatexite with <15% garnet, biotite, orthopyroxene and magnetite; commonly interlayered with unit 4b, c, locally associated with unit 5a
- 3 — Intermediate gneiss suite (shoshonite affinity)
  - 3b — Leucocratic intermediate gneiss: monzodioritic composition with <20% clinopyroxene, orthopyroxene and hornblende
  - 3a — Mesocratic intermediate gneiss: monzodioritic composition, enriched in biotite with subordinate clinopyroxene
- 2 — Mafic gneiss suite
  - 2d — Banded iron formation: quartz, orthopyroxene and magnetite rich; typically forms layers <1.5 m thick associated with unit 2a, b
  - 2c — Ultramafic gneiss: clinopyroxene and orthopyroxene rich with subordinate hornblende; typically occurs as boudins <3 m thick in unit 2a, b, and rarely in unit 1b
  - 2b — Leucocratic mafic gneiss: plagioclase rich with <30% clinopyroxene and orthopyroxene, minor magnetite, local hornblende, garnet and biotite; typically interlayered with unit 2a; derived, at least in part, from volcanic rocks.
  - 2a — Mesocratic mafic gneiss: plagioclase rich with >40% clinopyroxene and orthopyroxene, subordinate hornblende and magnetite; typically interlayered with unit 2b; derived, at least in part, from volcanic rocks.
- 1 — Gneissic intrusions
  - 1b — Gneissic trondhjemite: <10% orthopyroxene and clinopyroxene with subordinate magnetite
  - 1a — Gneissic tonalite: >10% orthopyroxene and clinopyroxene with subordinate magnetite

Hematized fracture zone

Zone of pseudotachylite veining

Symbols

Layering
- Igneous layering, facing unknown

Foliation
- Unknown generation, generation 1, 2

Gneissosity
- Unknown generation, generation 1

Cleavage
- Spaced cleavage

Fractures
- Fracture, hematized
- Pseudotachylite

Fault
- Sense unknown, dextral, sinistral

Geologic contact
- Approximate
- Assumed (underwater, buried contact)

Shear
- Dextral, sinistral

Lineations
- Lineation, generation unknown
- Mineral lineation
- Rodding
- Slickenstriae

Minor fold axis (generation unknown)
- S-asymmetric, symmetric, Z-asymmetric

Axial plane of minor fold
- Unknown generation, generation 2

Other
- Dike

Map GR2021-1-1

Bedrock geology of central Sipiwesk Lake, Pikwitonei granulite domain, central Manitoba (part of NTS 63P4)

Geology by C.G. Couëslan, C.O. Böhm and T. Martins

Cartography/GIS by H.O. Adediran

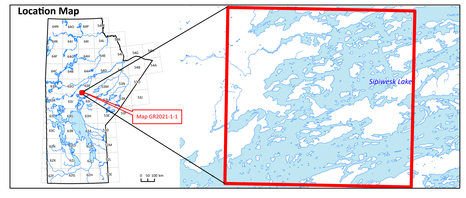
Suggested reference:
Couëslan, C.G., Böhm, C.O. and Martins, T. 2021: Bedrock geology of central Sipiwesk Lake, Pikwitonei granulite domain, central Manitoba (part of NTS 63P4); Manitoba Agriculture and Resource Development, Manitoba Geological Survey, Geoscientific Report GR2021-1, Map GR2021-1-1, scale 1:20 000.

Published by:
Manitoba Agriculture and Resource Development, Manitoba Geological Survey, 2021

Copies of this map can be obtained from:
Manitoba Agriculture and Resource Development
Manitoba Geological Survey, Publication Sales
360-1395 Ellice Avenue
Winnipeg, MB R3G 3P2 Canada

Phone: 204-945-6569
Toll free: 1-800-223-5215
Email: minesinfo@gov.mb.ca
Available for free download at www.manitoba.ca/minerals

Location Map



N

Manitoba

UTM Zone 14, NAD83

Project Number: MGS2012_003

Scale 1:20 000

0 2 4 6
kilometres