



Preliminary Map PMAP2016-3
**Bedrock geology of the southeastern
 Duck Lake–Sesep Rapids area, central Manitoba
 (part of NTS 63J16)**

Legend

- Paleoproterozoic, post-D₂ rocks**
- 11 Gabbro; locally amphibolized, tentatively assigned to Moison swarm
- Rocks of uncertain age**
- 10 Carbonate rock; as bands up to 1.5 m wide, carbonate rich with varying proportions of serpentinized olivine, phlogopite, diopside, and clin amphibole
- Archean, post-D₂ rocks**
- 9 Granite
 - 8 Trondhjemite–granodiorite suite
 - 8a Trondhjemite
 - 8b Granodiorite
 - 7 Tonalite
 - 6 Diorite
- Archean pre- to syn-D₂ gneissic rocks**
- 5 Weakly gneissic intrusions
 - 5a Weakly gneissic diorite
 - 5b Weakly gneissic tonalite–granodiorite; granodiorite typically associated with retrogression and high strain zones
 - 5c Weakly gneissic granite
 - 3 Gneissic tonalite
 - 3 Sedimentary rocks
 - 3a Psammite; contains local layers of subunit 3b
 - 3b Semipelite; forms sillimanite-bearing metatextite to diatextite with 15–45% granitic leucosome
 - 2 Intra-volcanic mafic intrusions
 - 2a Gabbro; plagioclase- and/or hornblende-pyrophylic, leucocratic to mesocratic
 - 2b Pyroxenite; occurs associated with, and containing xenoliths and xenocrysts derived from, subunit 2a
 - 1 Basalt and associated rocks
 - 1a Massive to banded basalt
 - 1b Pillowed basalt; locally contains pods of calcilicite
 - 1b Garnet-bearing basalt; heterogeneous with 10–30% garnet, commonly interbedded with subunit 1a
 - 1c Garnet-biotite schist; locally sillimanite- and anthophyllite-bearing
 - 1e Anthophyllite-rich basalt; occurs as nebulous and locally discordant zones in subunit 1b

Symbols

- Foliation, generation 2
- Foliation, mylonitic
- Gneissosity, generation 1
- Pillows; tops unknown, tops known, tops overturned
- Igneous layering, tops unknown
- Mineral lineation
- Dike
- Fold axis; generation 2; symmetric, S-asymmetric
- Shear zone; generation 3; unknown sense, sinistral, dextral
- Stretching lineation
- Contact; approximate, underwater
- Fault
- Limit of mapping

Geology by C.G. Coušlan (2016)

Cartography by M. Timcoe

Recommended reference:
 Coušlan, C.G. 2016: Bedrock geology of the southeastern Duck Lake–Sesep Rapids area, central Manitoba (part of NTS 63J16); Manitoba Growth, Enterprise and Trade, Manitoba Geological Survey, Preliminary Map PMAP2016-3, scale 1:10 000.

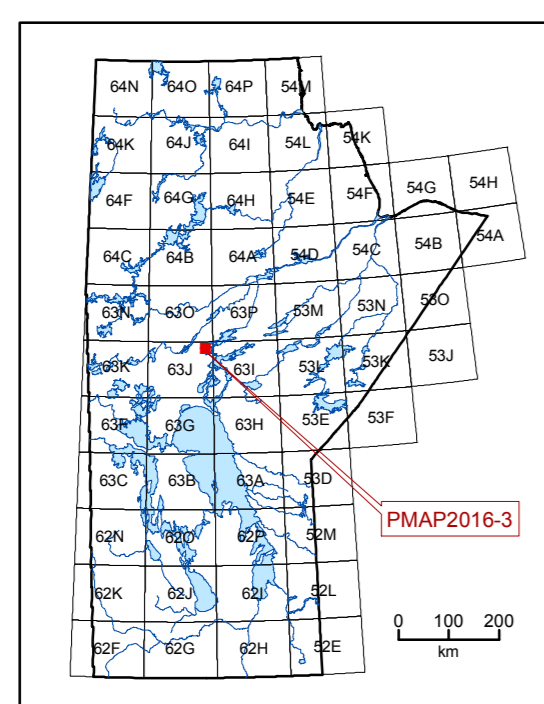
This map is a provisional summary of work carried out during the summer field season and is produced directly from the geologist's manuscript. It is not to be regarded as a final interpretation of the geology of the area.

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Location Map



Scale 1:10 000

