



Legend

Phanerozoic rocks

- ORR Ordovician, Red River Formation

Late intrusive rocks

- L3 Granodiorite, porphyritic
- L2 Gabbro, dike
- L1 Dacite, quartz-feldspar porphyritic

Broad Bay intrusive rocks

- P2 Granite, granodiorite

Monette Lake intrusive rocks

- P1 Granite
- G1 Gabbro

East Missi fault block: fluvial-alluvial sedimentary rocks (1845-1835 Ma; Ansdell et al., 1999)

- M2d Feldspathic arenite, crossbedded with minor conglomerate layers
- M2c Feldspathic arenite, trough crossbedded
- M2b Feldspathic arenite, magnetite-bearing (<10%), trough crossbedded
- M2a Feldspathic arenite, magnetite-rich (>10%), trough crossbedded
- M1 Conglomerate, polymictic

McCafferty Lifter fault block: volcanic, volcanoclastic and sedimentary rocks (1876 ±2 Ma; Ansdell et al., 1999)

- S5 Heterolithic mafic volcanic conglomerate, matrix-supported, felsic to intermediate plagioclase-phyric matrix
- S3c Basalt, plagioclase porphyritic pillowed flows with abundant quartz-filled amygdalae, minor tuff breccia and interflow tuff layers
- S3b Dacite, pebble conglomerate, feldspathic arenite and tuff
- S3a Dacite, heterolithic volcanic conglomerate, locally scoria-rich
- S2 Dacite and/or rhyodacite, massive, feldspar porphyritic
- S1 Andesite, pillowed flows to massive, locally amygdaloidal, possibly intrusive
- S1 Andesite, heterolithic plagioclase-phyric (and minor dacite) cobble and boulder conglomerate, clast-supported

South Wekusko assemblage: mafic volcanic rocks of probable ocean-floor/back-arc affinity (Gilbert and Bailes, 2005)

- F1 Basalt, plagioclase- and pyroxene-phyric flows and pillows

Volcanoclastic rocks of uncertain age

- U1 Dacite, conglomerate (with minor andesite)

Symbols

- Lineation: mineral, stretching
- Axial plane
- Bedding: facing known, facing unknown, overturned
- Cleavage: generation 1, generation unknown
- Contact
- Dike: dip known, dip unknown
- Fold axis
- Foliation: generation 1, generation 2, generation unknown
- Igneous layering: facing known, facing unknown
- Pillow, facing known
- Shear band, sense unknown
- Spaced cleavage: generation 1, generation 2, generation unknown
- Vein margin
- Station
- Mineral occurrence in drill hole: PB-09-03: Zinc, Lead; BAR-3: Gold; HAR-169: Gold

Lines

- Contact, approximate
- Fault
- Contact, approximate
- Sinistral, approximate
- Fold
- Syncline, generation 3, approximate

Preliminary Map PMAP2019-4

Preliminary geology of the Puella Bay area, Wekusko Lake, north-central Manitoba (NTS 63J12)

Geology by K.D. Reid (2019)
 Cartography by T. Davis

Suggested reference:
 Reid, K.D. 2019: Preliminary geology of the Puella Bay area, Wekusko Lake, north-central Manitoba (NTS 63J12). Manitoba Agriculture and Resource Development, Manitoba Geological Survey, Preliminary Map PMAP2019-4, scale 1:15 000.

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.

References:
 Ansdell, K.M., Connors, K.A., Stern, R.A. and Lucas, S.B. 1999: Coeval sedimentation, magmatism, and fold-thrust belt development in the Trans-Hudson orogen: geochronological evidence from the Wekusko Lake area, Manitoba, Canada. Canadian Journal of Earth Sciences, v. 36, no. 2, p. 293-312.
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 Reid, K.D. 2019: Bedrock geological mapping of the Puella Bay area (Wekusko Lake), north-central Manitoba (part of NTS 63J12). in Report of Activities 2019, Manitoba Agriculture and Resource Development, Manitoba Geological Survey, p. 42-51.

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