

CAPITAL REGION

GEOLOGY AND BEDROCK TOPOGRAPHY
(5 m contour interval)

LEGEND

MESOZOIC

CRETACEOUS

(K) Swan River Formation: white kaolinitic shale, silica sand and/or black lignitic, silty material; in solution cavities or channels; isolated occurrences.

JURASSIC

(J) Reston Formation: limestone and dolomite, shale interbeds; Amaranth Formation: red argillaceous dolomitic siltstone and sandstone overlain by gypsum and anhydrite. (Subdivisions described in ascending stratigraphic sequence.)

PALEOZOIC

SILURIAN

(S) Interlake Group: dolomite, yellow-brown, fossiliferous, stromatolitic, dense to sublithographic; several thin, argillaceous marker beds.

LOWER SILURIAN AND ORDOVICIAN

(OS) Stonewall Formation: dolomite, yellow-brown to grey, fine-crystalline, sparsely fossiliferous, several thin argillaceous marker beds (T-zone demarcates the Ordovician/Silurian boundary); argillaceous dolomite at the base (Williams Member).

ORDOVICIAN

Stony Mountain Formation

(OSMg) Gunton Member: dolomite, massive, nodular.

(OSMgp) Gunn Member: calcareous mudstone, fossiliferous, thin limestone beds; Penitentiary Member: argillaceous dolomite, fossiliferous. (Subdivisions described in ascending stratigraphic sequence.)

Red River Formation

(ORRufg) Upper Fort Garry Member: dolomite, in part cherty, some limestone beds, brecciated.

(ORRifg) Lower Fort Garry Member: dolomitic mudstone, brecciated.

(ORRs) Selkirk Member: mottled dolomitic limestone (Tyndall Stone™), grades northward to dolomite.

(ORRch) Cat Head Member: dolomite, in part cherty and calcareous.

(ORRdh) Dog Head Member: mottled dolomitic limestone, grades northward to dolomite.

Winnipeg Formation

(Ow) Winnipeg Formation: quartzose sandstone; kaolinitic, silty and sandy, shaly in upper part.

PRECAMBRIAN (ARCHEAN)

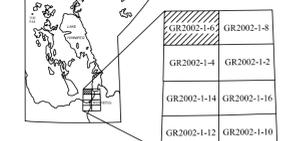
(PreC) Precambrian: undifferentiated.

SYMBOLS

- Topographic contour on bedrock surface (above sea level) (5 m contour interval)
- Capital Region area
- Bedrock outcrop (exposed, covered)
- Bedrock quarries (small, large, abandoned or rehabilitated)
- Well location

Data compiled by: R.K. Bezys, J.D. Bamburak and G.G. Conley to August, 2002.

Cartography by: M.E. McFarlane, B. K. Lenton
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This map is a summary of work carried out during the summer field seasons of 1995 and 1996. The bedrock topography was determined using the Manitoba Geological Survey's Stratigraphic Database and Manitoba Conservation, Water Branch's water-well (GWDrill). The geological contacts are based on extrapolation from known points, and could deviate considerably if local structure is present or if bedrock topography differs significantly from that projected.

Reference: Bezys, R.K., Bamburak, J.D. and Conley, G.G., 2002: Bedrock mineral resources of Manitoba's Capital Region; Manitoba Industry, Trade and Mines, Manitoba Geological Survey, Geoscientific Report GR2002-1, [1 v.] plus 16 maps at 1:50 000 scale and 1 CD-ROM.

