## GSC 2053A GSC 2054A MGS MAP2003-6 MGS MAP2003-5 GSC 2057A GSC 2056A MGS MAP2003-9 GSC 2060A MGS MAP2003-12

GSC 2051A

MGS MAP2003-3

Published 2004

This legend is common to GSC maps 2049A-2060A, and MGS geoscientific maps MAP2003-1-MAP2003-12. Coloured legend blocks indicate map units that appear on this map.

NONGLACIAL DEPOSITS

by vegetation, in most cases on subaqueous outwash sand. **Shoreline sediments:** sand and gravel; 1–2 m thick; beaches; formed by waves at the

**ALLUVIAL SEDIMENTS:** sand and gravel, sand, silt, clay, organic detritus; 1–20 m thick; channel and overbank sediments; deposited by postglacial rivers.

GLACIOLACUSTRINE DEPOSITS

GLACIAL LAKE SHORELINE SEDIMENTS: sand and gravel; 1–20 m thick; beach ridges, spits, bars, littoral sand and gravel; formed by waves at the margin of glacial

OFFSHORE GLACIOLACUSTRINE SEDIMENTS: clay, silt, minor sand; 1-20 m thick; very low relief massive and laminated deposits; deposited from suspension in offshore, deep water of glacial Lake Agassiz, commonly scoured and homogenized

GLACIOFLUVIAL DEPOSITS

Subaqueous outwash: fine sand, minor gravel, thin silt and clay interbeds; 1–75 m thick; subaqueous outwash fans; deposited near the ice margin in glacial Lake Agassiz by meltwater turbidity currents, commonly reshaped by wave erosion

ICE-CONTACT GLACIOFLUVIAL SEDIMENTS: sand and gravel; 1-20 m thick; complex deposits, belts with single or multiple esker ridges and kames, as well as thin, low-relief deposits; deposited in contact with glacial ice by meltwater.

Predominantly derived from carbonate rocks.

**GLACIAL DEPOSITS** 

Till: calcareous silt diamicton; 1–75 m thick; low-relief, commonly streamlined deposits; subglacial deposits; largely derived from carbonate rocks; thicker sequences consist of multiple units of varying texture; commonly scoured by icebergs; covered discontinuously by thin veneers (<1 m) of glaciolacustrine and

DISCONTINUOUS TILL AND ASSOCIATED GLACIOFLUVIAL SEDIMENTS: gravelly silt to sand diamicton, sand and gravel; 1-30 m thick; low-relief deposits between bedrock outcrops making up 25-75% of the area; sandy till interbedded and interspersed with nearly equal and often greater amounts of sandy glaciofluvial sediments, as well as minor glaciolacustrine sediments.

Predominantly derived from igneous and metamorphic rocks.

ROCK: >75% bedrock outcrop; Paleozoic carbonate-dominated rocks in areas west and south of Lake Winnipeg, exposed typically as glacially striated, low-relief surfaces; in Precambrian terrane, generally unweathered intrusive, metasedimentary, and metavolcanic rocks having a glacially scoured irregular surface with high local relief; includes patches of thin glacial sediments and organic material.

Precambrian igneous and metamorphic rocks.

SURFICIAL GEOLOGY **BIG WHITESHELL LAKE** 

GSC MAP 2054A

MGS GEOSCIENTIFIC MAP MAP2003-6

MANITOBA-ONTARIO

Projection transverse universelle de Mercator

Système de référence géodésique nord-américain, 1983

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Scale 1:100 000/Échelle 1/100 000

Universal Transverse Mercator Projection

North American Datum 1983

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Digital base map from data compiled by Geomatics Canada, modified by ESS Info Mean magnetic declination 2004, 2°57'E, decreasing 5.6' annually. Readings vary from 3°30'E in the SW corner to 2°24'E in the NE corner of the map Elevations in feet above mean sea level

Any revisions or additional geological information known to the user would be welcomed

by the Geological Survey of Canada and the Manitoba Geological Survey

GSC 2055A MGS MAP2003-7 MGS MAP2003-8 GSC 2058A GSC 2059A MGS MAP2003-10 MGS MAP2003-11

MGS MAP2003-2

NATIONAL TOPOGRAPHIC SYSTEM REFERENCE AND INDEX TO ADJOINING GEOLOGICAL SURVEY OF CANADA AND MANITOBA GEOLOGICAL SURVEY MAPS

GSC 2052A

MGS MAP2003-4

LOCATION MAP

Copies of this map may be obtained

from the Geological Survey of Canada: 601 Booth Street, Ottawa, Ontario K1A 0E8

3303-33rd Street, N.W., Calgary, Alberta T2L 2A7 101-605 Robson Street, Vancouver, B.C. V6B 5J3

Manitoba Industry, Economic Development and Mines Manitoba Geological Survey, Publication Sales 360-1395 Ellice Avenue, Winnipeg, Manitoba R3G 3P2



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of the Southern Prairies NATMAP Project and the Winnipeg Region NATMAP Project

Digital cartography by P.A. Melbourne, Earth Sciences Sector Information Division (ESS Info)

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