SURFICIAL GEOLOGY & AGGREGATE RESOURCES
OF THE
Russell / Shoal Lake Area
Manitoba

Legend

QUATERNARY

Post Glacial

8 ..... Organics – swamp, muck and peat

7 ..... Colluvium – slumped material on valley slopes, mainly shale, minor till and outwash

6 ..... Alluvium – sand and silt, minor clay and gravel

Proglacial

5c ..... Fluvial Terraces – thin sand and gravel over till

5b ..... Fluvial Terraces – sand and gravel

5a ..... Fluvial Terraces – sand and silt, minor gravel

4c ..... Outwash Plain – sand and gravel with eolian sand cover (>1m thick)

4b ..... Outwash Plain – sand and gravel

4a ..... Outwash Plain – sand, minor gravel and silt

Glacial

3c ..... Moraine Plateau – silt and clay, minor till

3b ..... Ice Contact Features – kames and eskers, sand and sand till, local gravel bodies

3a ..... Kame Moraine Complex – sand, local gravel and till

2d ..... Till Plain – corrugated, moderate to high local relief (>5m) with distinct northeast – southwest trending moraine ridges

2c ..... Till Moraine – hummocky, >10m local relief

2b ..... Till Plain – rolling to hummocky, 5–10 m local relief

2a ..... Till Plain – rolling, <5 m local relief

CRETACEOUS

1 ..... Riding Mountain Formation – grey shale

Symbols

Geological Boundary

G039 ..... Pit, exposure number, no sample

G039S ..... Pit, exposure number, sample

G034 ..... Geological Field Exposure, no sample

G034S ..... Geological Field Exposure, sample

12236 ..... Aggregate Deposit Number ..... * Buried Deposit – size unknown
+ Minor Deposit (< 5ha)

Small Meltwater Channel

Large Meltwater Channel

Esker Ridge – mainly sand, minor gravel

Drumlinoid Ridge (drumlins, fluting)

X ..... Bedrock Outcrop

Aggregate Deposits

Mainly Gravel – more than 60% gravel*

Sand And Gravel – 40 to 60% gravel*

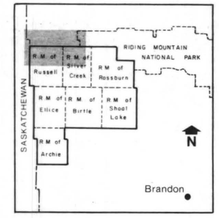
Mainly Sand – less than 40% gravel*

*Gravel ≥ 2 mm in size

MAP 1

RUSSELL
62 K / 14

December, 1982
Scale 1:50,000
Project 82-19



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Prepared by
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Map OF 83-2-1
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