

# SURFICIAL GEOLOGY AND AGGREGATE DEPOSITS IN THE RURAL MUNICIPALITY OF EDWARD

## LEGEND

### QUATERNARY

#### Post Glacial

- 7 Alluvium: deposited by present day streams; primarily silt and clay, some sand and minor gravel

#### Proglacial

- 6,5,4 Lacustrine sediments: deposited in Glacial Lake Souris
- 6 **Basinal**  
6b silt: usually > 2m thick; includes minor areas of clay  
6a silt: < 1m thick overlying till; includes areas of thicker silt and clay accumulation
- 5 **Littoral**  
sand: usually > 2m thick, medium to fine-grained, grades westward into deltaic sands
- 4 **Deltaic**  
4b sand and gravel: generally 2-4m thick; sediments are thicker and coarser to west and north; includes possible flood deposits east of Melita  
4a sand, pebbly sand and local areas of fine gravel: where gravel occurs it is generally > 1.5m thick overlying till or sand; unit includes possible flood deposits east of Melita
- 3 **Meltwater channel deposits**  
3c sand and gravel: generally < 2m thick overlying till; minor shale; associated with streams carrying meltwater from receding ice front  
3b sand and gravel: generally 1-3m thick, moderate to abundant shale; possible flood deposits  
3a sand and gravel: 1-2m thick over till, minor shale; associated with the Souris River Spillway

#### Glacial

- 2 Till: deposited by southeast flowing ice: unit includes organic deposits accumulating in depressions  
2c plain, modified by water erosion: includes pockets of silt and clay, sand, and sand and gravel  
2b corrugated moraine: linear ridges 1-3m high, oriented southwest  
2a stagnation moraines: abundant doughnut mounds 1-3m high; rims occasionally in part formed of sand and fine gravel

#### Cretaceous

- 1 Shale of Pierre Formation: generally overlain by < 1m silt, sand and clay; includes areas of lag deposits

## SYMBOLS

- Meltwater stream: channels usually till floored with local accumulations of sand and gravel
- Spillway
- Escarpment
- Sand and gravel pit: intermittent usage
- Sand and gravel pit: abandoned
- Sand and gravel site: minor extraction: intermittent usage
- Sand and gravel site: minor extraction: abandoned
- Field station: sample-s (Site prefix in text:HM)
- Backhoe station: sample-s (Site prefix in text:HB)
- 11800 Deposit number
- Gravel occurrence
- Aggregate Deposit

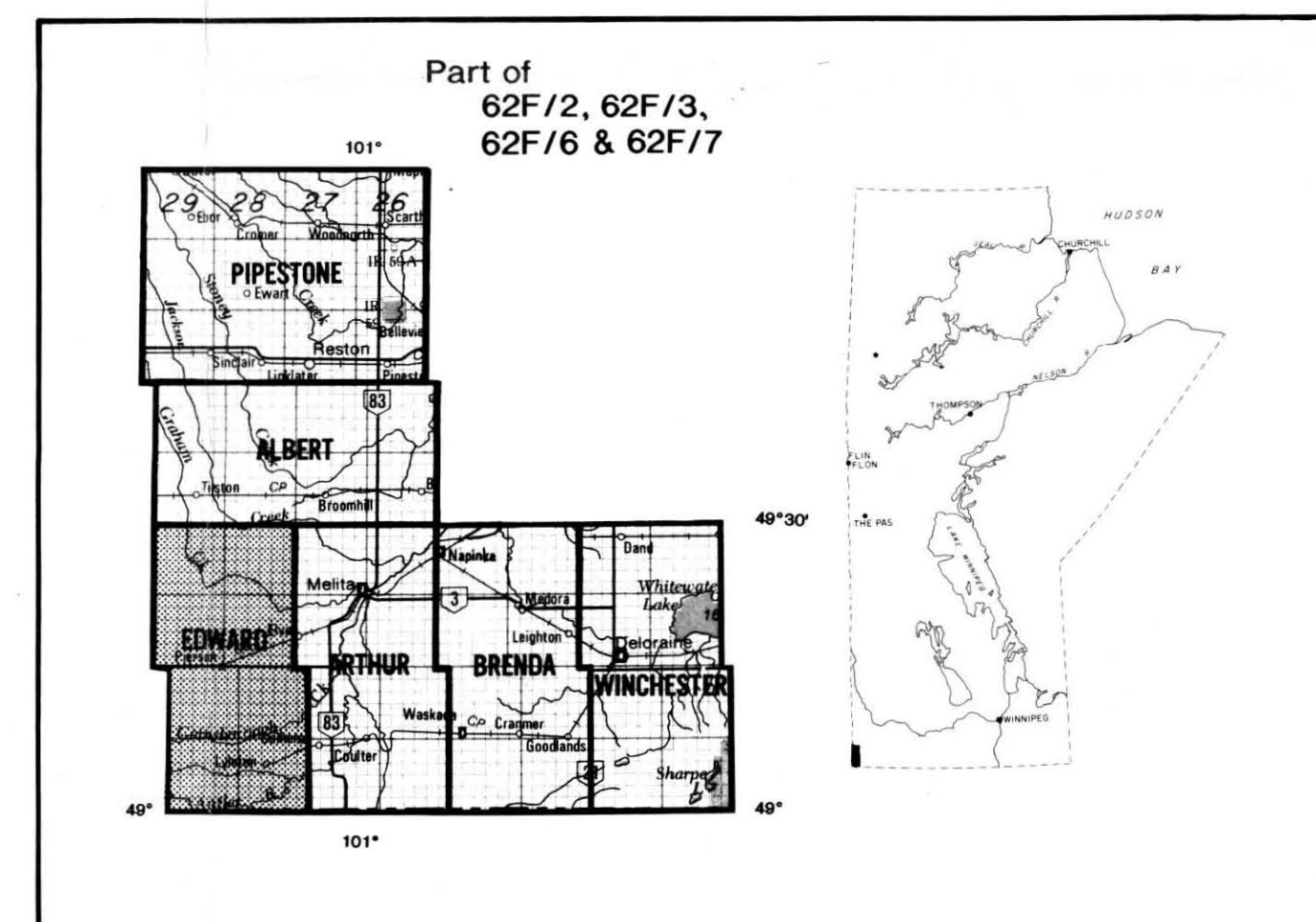
#### Deposit Production Potential

- (H) High (M) Moderate (L) Low

#### Deposit Symbol

- 11800 L Deposit number  
Production potential

## INDEX MAP



Geology by H. Groom

Cartography by L. Villeneuve

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To accompany Aggregate Report AR92-5

Scale 1:50 000

KILOMETRES 0 1 2 3 4 5 KILOMETRES

