

**FEATURES LEGEND**

- site investigated △
  - ditch/ole ○
  - EM31-MK2 geophysical survey —
- DEPOSIT TYPE**
- | FINES            | SAND AND GRAVEL |              |               |      |
|------------------|-----------------|--------------|---------------|------|
|                  | GRAVEL          | sandy GRAVEL | gravelly SAND | SAND |
| clean            |                 |              |               |      |
| dirty/very dirty |                 |              |               |      |
| unknown          |                 |              |               |      |
- UNKNOWN deposit ■

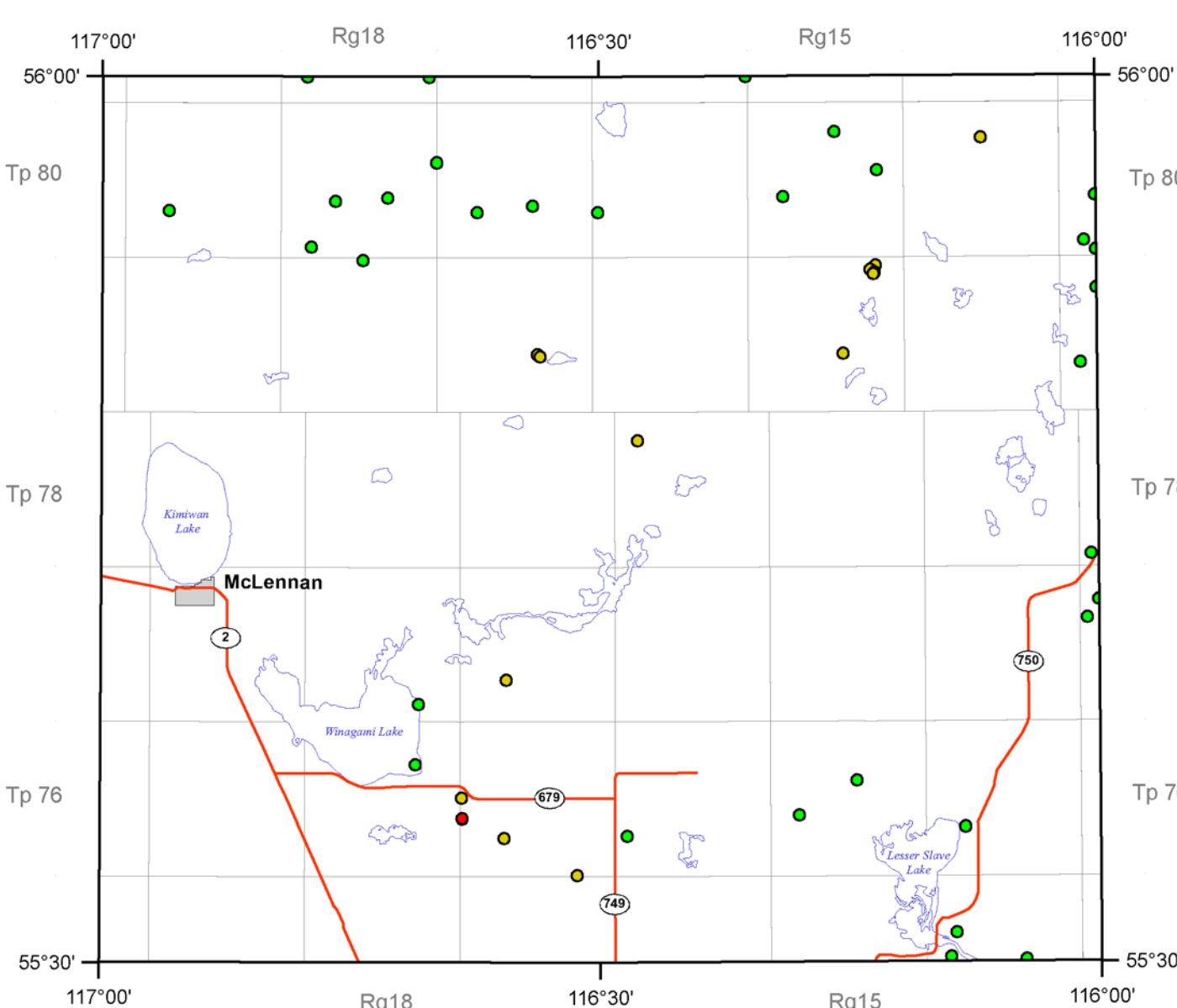
**Deposit Type Definitions:**  
 GRAVEL: contains greater than 75% gravel.  
 sandy GRAVEL: contains 50% to 75% gravel.  
 gravelly SAND: contains 25% to 50% gravel.  
 SAND: contains less than 25% gravel.  
 clean: contains less than 3% silt and clay.  
 dirty/very dirty: contains 3% or more silt and clay.  
 unknown: contains unknown percentage of silt and clay.  
 UNKNOWN deposit: contains unknown percentage of sand and gravel.

**BASEMAP LEGEND**

- Lake —
- River —
- Primary road (paved) —
- Paved road (secondary) —
- Gravel road (secondary) —
- Improved road —
- Unimproved road —
- Truck trail —
- Railway line —
- Park boundary - provincial/national —
- City/town —
- Metis settlement/Indian Reserve —
- Township/range - surveyed —
- UTM, Zone 11 grid —

This is a common map legend. Not all units may be present on this map.

**Study Level**



- Level 1 ●
- Level 2 ●
- Level 3 ●
- Level 4 ●
- Level 5 ●

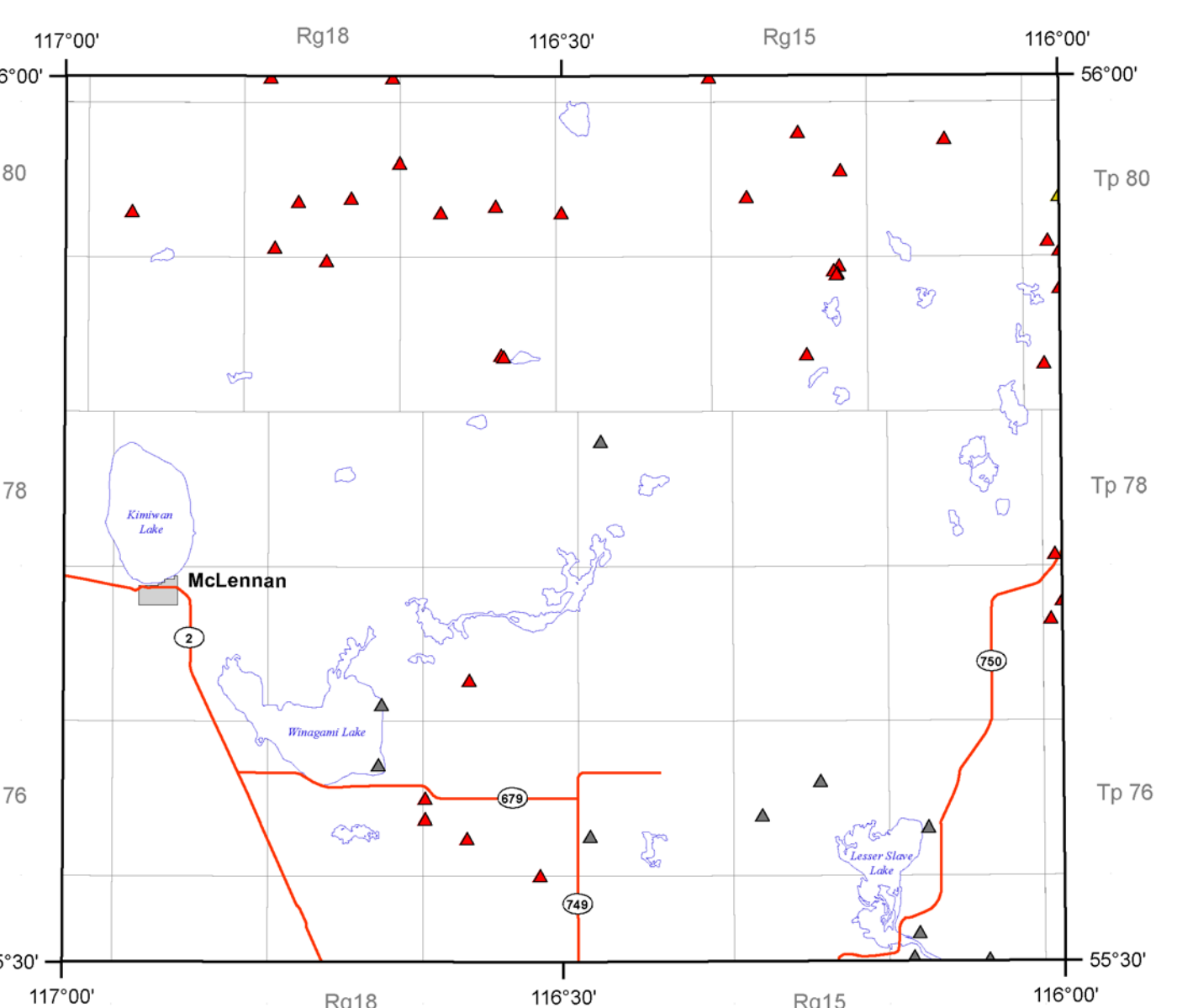
**Study Level Definitions:**

- Level 1: Aggregate reserves confirmed by grid testing and sampling.
- Level 2: Aggregate reserves confirmed by multiple test holes and sampling.
- Level 3: Sand and/or gravel confirmed by Alberta Geological Survey site investigation and limited sampling and testing.
- Level 4: Sand and/or gravel areas assumed from Alberta Geological Survey investigation of associated sites, remote sensing and other sources of information.
- Level 5: Potential sand and/or gravel areas identified from remote sensing and other sources of information without Alberta Geological Survey site investigation.

**References:**

- Alberta Environment (2008): Groundwater database; Alberta Environment, Microsoft® Access database, URL <http://environment.alberta.ca/1295.htm> [March 2008].
- Fenton, M.M. (2008): Surficial geology of the McLennan area (NTS 83N/NE) (GIS data, polygon features); Energy Resources Conservation Board, ERCB/AGS Digital Dataset 2008-0353. URL <http://www.ags.gov.ab.ca/publications/abstracts/DIG\_2008\_0353.htm> [October 2009].
- Fenton, M.M. (2008): Surficial geology of the McLennan area, Alberta (NTS 83N/NE); Energy Resources Conservation Board, ERCB/AGS Map 418, scale 1:100 000. URL <http://www.ags.gov.ab.ca/publications/abstracts/MAP\_418.htm> [October 2009].
- Fenton, M.M. (2008): Surficial geology of the McLennan area, Alberta (NTS 83N/NE): report to complement surficial geology map of the McLennan area; Energy Resources Conservation Board, ERCB/AGS Open File Report 2008-02. URL <http://www.ags.gov.ab.ca/publications/abstracts/OFR\_2008\_02.htm> [October 2009].

**Genesis or Geological Feature**

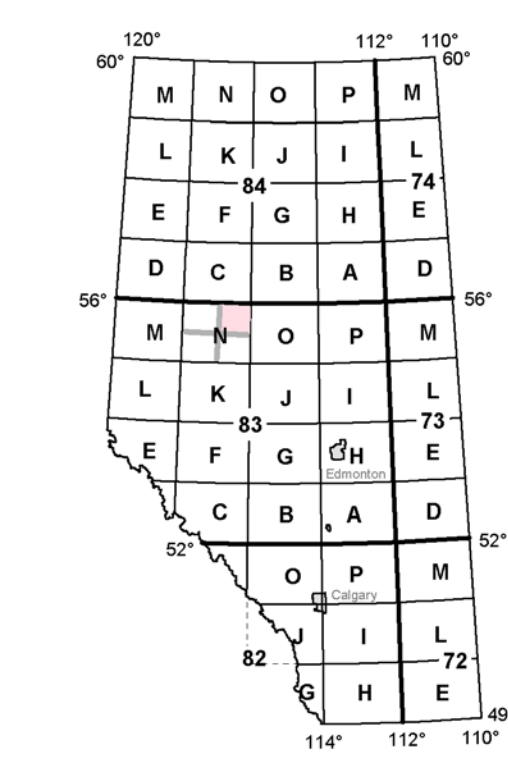
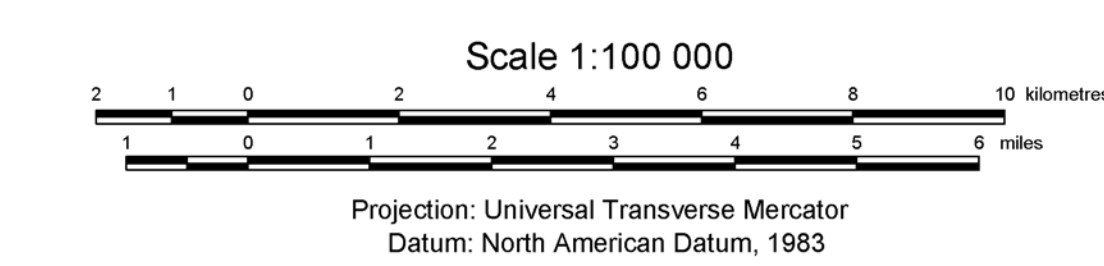


- Eolian △
- Glaciofluvial △
- Preglacial △
- Glacial △
- Alluvial △
- Unknown △
- Other (glaciolacustrine, lacustrine) △

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 Copies of this map may be obtained from:  
 Information Centre  
 Alberta Geological Survey  
 Telephone: (780) 422-1927  
 Website: www.ags.gov.ab.ca

**Map 536**  
**Sand and Gravel Deposits with Aggregate Potential**  
**McLennan, Alberta (NTS 83N/NE)**

Geology by: H.D. Budney



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 L.A. Pedersen, E.J. Waters, A. Farineau, K. McKay and R. Elgr provided database, GIS and cartographic services for the mapping project.  
 M.M. Fenton reviewed the map.  
 Digital base map provided by Spatial Data Warehouse.

**Recommended Reference Format**

Budney, H.D. (2009): Sand and gravel deposits with aggregate potential, McLennan, Alberta (NTS 83N/NE); Energy Resources Conservation Board, ERCB/AGS Map 536, scale 1:100 000.

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