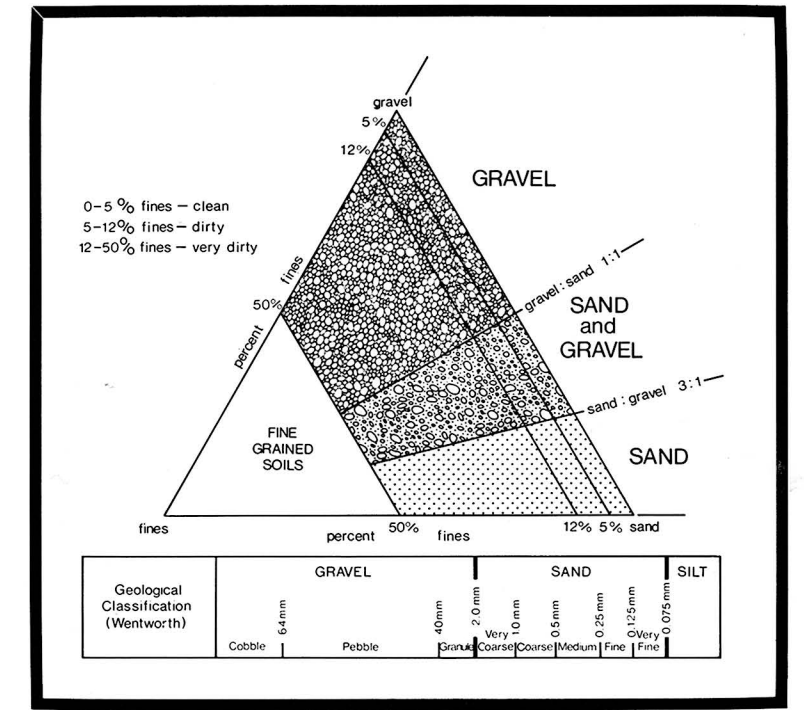


This reconnaissance-level, aggregate potential map is derived from published information, aerial photograph interpretation and limited field checking. As such, deposit outlines are assumed and material descriptions are either assumed or approximate. The sources of information used to produce this map are listed below and terms used in the legend are defined in the ternary diagram.

- 1 Gravel, coarse, clean
- 2 Sand and gravel, clean
- 3 Sand and gravel, clean to dirty
- 4 Sand and gravel, dirty to very dirty
- 5 Sand, very coarse to medium grained, clean
- 6 Sand, very coarse to medium grained, dirty
- 7 Sand, fine grained, clean
- 8 Sand and gravel-thin, discontinuous, or inadequately known
- ▲ Site
- ⋈ Pit, active or inactive
- ▨ Sand and gravel, buried
- * unit not occurring on this map



Ternary diagram (after Wentworth and the Unified Soil Classification System)

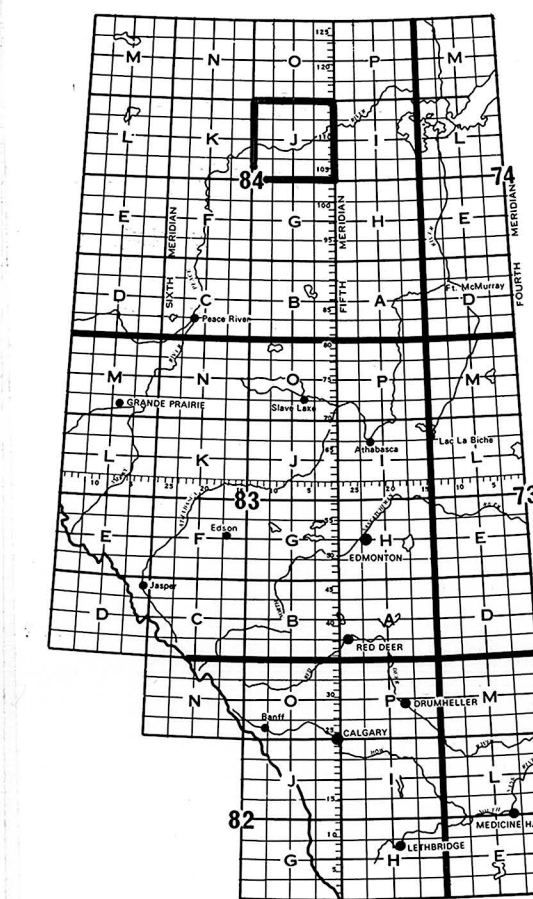
- a Thick (> 1.5 m) and/or continuous
- b Thin (< 1.5 m) and/or discontinuous

Published sources of information

1. Agriculture Canada (1984): Preliminary physiographic map of Alberta; Personal communication.
2. Bayrock, L.A. (1960): Surficial geology, Appendix: in Exploratory soil survey of Alberta map sheets 84J, 84K, and 84L; Alberta Research Council, Preliminary Soil Report 60-1, pp. 43-45.
3. Gravenor, C.P. and W.A. Meneley (1958): Glacial flutings in central and northern Alberta; American Journal of Science, v. 256, pp. 715-728.
4. Green, R. (1972): Geological Map of Alberta; Alberta Research Council Map no. 35.
5. Lindsay, J.D., S. Pawluk and W. Odynsky (1960): Exploratory soil survey of Alberta map sheets 84J, 84K, and 84L; Alberta Research Council, Preliminary Soil Survey Report 60-1, 49 p.
6. Scheelar, D.D. and T.M. Macyk (1972): Reconnaissance soil survey of the Mount Watt and Fort Vermilion area; Alberta Research Council, Report No. 92, 51 p.
7. Shaw, J. and R. Kellerhals (1982): The composition of recent alluvial gravels in Alberta river beds; Alberta Research Council, Bulletin 41.

Other sources of information

1. Aerial photographs, 1983, AS2769-2784, Alberta Energy and Natural Resources.



Aggregate Resources

84J Vermilion Chutes

1:250,000

J.C. Fox
Field assistant: D. Bosman
Published 1985
Geology and compilation 1984
Open file report 1985-23

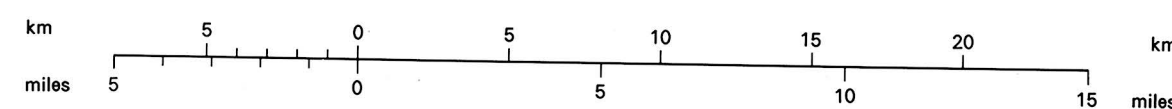
This sand and gravel resource map was prepared by the Alberta Geological Survey as part of an ongoing aggregate inventory of Alberta. This information shown on this map is intended for general land-use planning, land management and aggregate exploration until such time as more detailed maps or reports are available for the area.
Cartography by Alberta Research Council

ALBERTA
RESEARCH
COUNCIL

Natural Resources Division
Alberta Geological Survey

Alberta
ENERGY AND
NATURAL RESOURCES

SCALE 1 : 250 000



PRODUCED BY THE ALBERTA BUREAU
OF SURVEYING AND MAPPING © COPYRIGHT 1981

84J OFR 1985-23