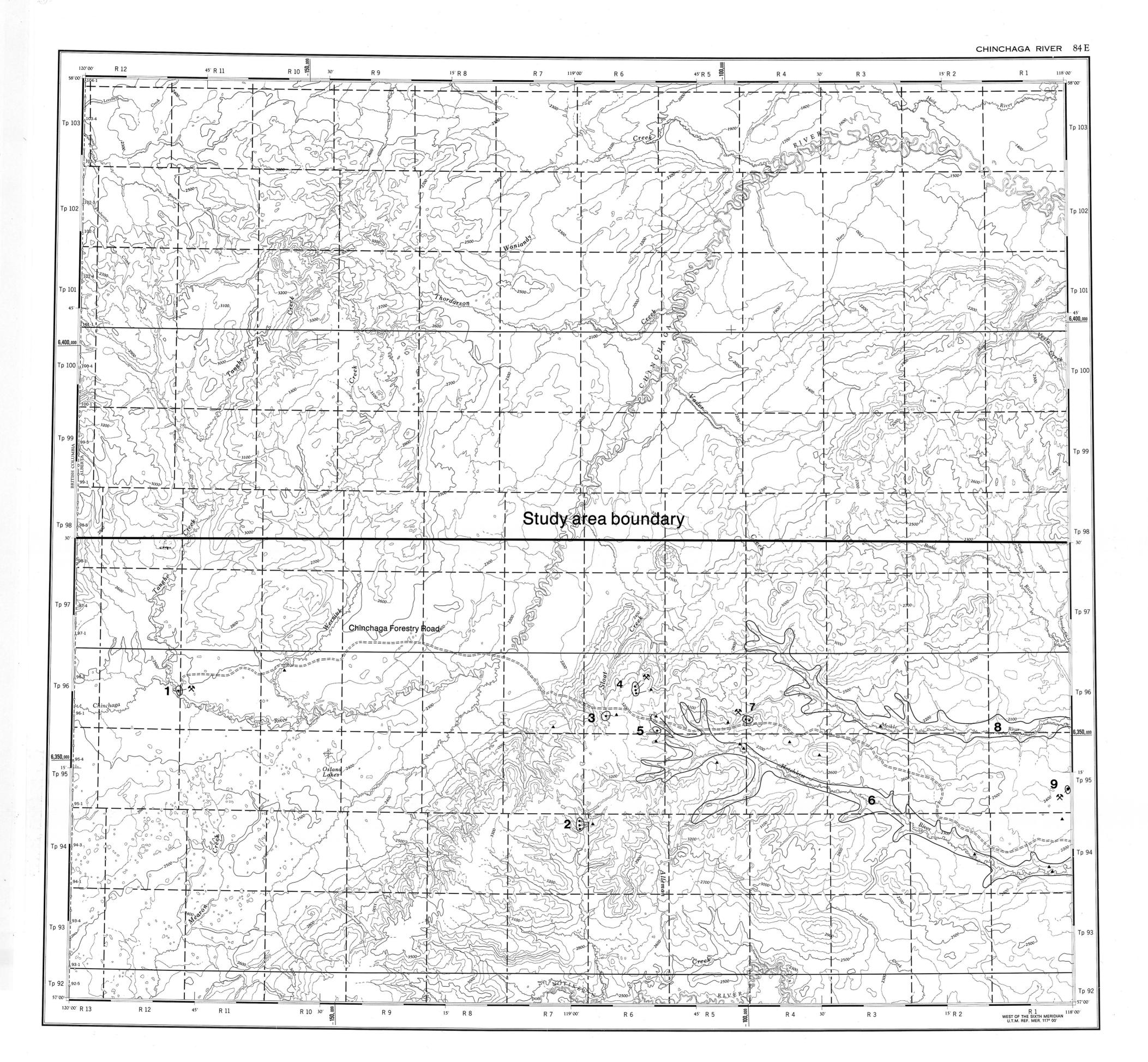
0 - 5% fines - clean

5 - 12 % fines - dirty

12 - 50 % fines - very dirty



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.

Gravelly sand. Maximum clast size 10cm. Gravel consists of quartzite, hard sandstone, granite, gneiss, chert, ironstone and clay clasts; alluvial terrace.

Sandy Gravel. Maximum clast size 25cm. Gravel consists of mainly quartzite and chert with iron staining throughout; Preglacial, fluvial, upland.

- Sandy gravel. Gravel consists of mainly quartzite and chert with minor amounts of granite, sandstone, ironstone and pockets of highly iron stained material. 1m of overburden; Preglacial (?), fluvial, upland.
- Sandy gravel, clean. Maximum clast size 30cm. Gravel consists of mainly quartzite and chert with iron rich bands present. Overburden is to 1.5m; Preglacial, fluvial, upland.
- Sandy gravel, clean. Gravel consists of mainly quartzite and chert; Preglacial, fluvial, upland.
- Sand to sandy gravel. Gravel consists mainly of quartzite and chert with granite, sandstone and conglomerate in minor amounts. Only 5 sites visited along river, limited information available; Alluvial terrace and bars.

 Sandy gravel. Maximum clast size 60cm. Gravel consists
- Sandy gravel. Maximum clast size 60cm. Gravel consists mainly of quartzite and chert with iron staining and iron cement throughout. Overburden is 2-3m; Preglacial, fluvial, upland.
- Gravelly sand, dirty, bouldery. Maximum clast size 25cm.
 Gravel consists mainly of quartzite and chert which overly a shale bedrock resulting in an abundance of shale clasts. Overburden is 1.5m. Only one site visited, limited information available; Alluvial terrace.
- Gravelly sand, dirty. Gravel consists of mainly Precambrian Shield material. Overburden is 75cm;
 Glaciofluvial (?), depleted.

Map Legend

B Deposit number

Assumed boundary

Active or inactive pitSample and/or description site

Fox, J.C., R.J.H. Richardson, R. Gowan, and P.C. Sham (1987).
Surficial Geology of the Peace River-High Level Area, Alberta;
Map; Edmonton: Alberta Research Council.

Green, R. (1972). Geological Map of Alberta; Edmonton: Alberta

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Estimates; Peace River - High Level Area, Alberta; Map; Edmon-

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Lindsay, J.D., S. Pawluk and W. Odynsky (1959). Exploratory Soil
Survey of Alberta Map Sheets 84-D (north half), 84-E, 84-F and
84-G; Edmonton: Alberta Research Council.

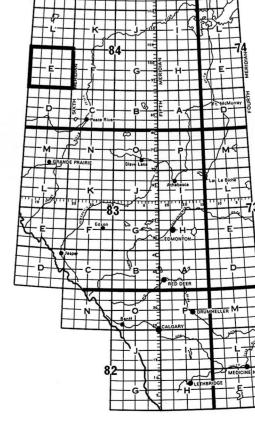
Ozoray, G. (1982). Hydrogeology of the Clear Hill-Chinchaga River area, Alberta; Earth Sciences Report 82-4; Edmonton: Alberta Research Council.

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Aggregate Resources

84E Chinchaga River
D.W. Scafe, W.A.D. Edwards, D.R. Boisvert

1:250,000

Published 1988
Geology and compilation 1987-88
To accompany Open File Report 1988-92 as Figure 3.

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



Natural Resources Division
Alberta Geological Survey