

FEATURES LEGEND

site investigated	△
drill hole	○
Deposit Type	GRAVEL sandy GRAVEL gravelly SAND SAND
clean	[Red] [Orange] [Yellow-Green] [Blue]
dirty/very dirty	[Pink] [Yellow] [Light Green] [Cyan]
unknown	[Light Pink] [Light Yellow] [Light Green] [Light Blue]
UNKNOWN deposit type	[Grey]

Deposit Type Definitions:

GRAVEL deposit: contains greater than 75% gravel.
 sandy GRAVEL deposit: contains 50% to 75% gravel.
 gravelly SAND deposit: contains 25% to 50% gravel.
 SAND deposit: contains less than 25% gravel.
 UNKNOWN deposit: amount of gravel unknown.

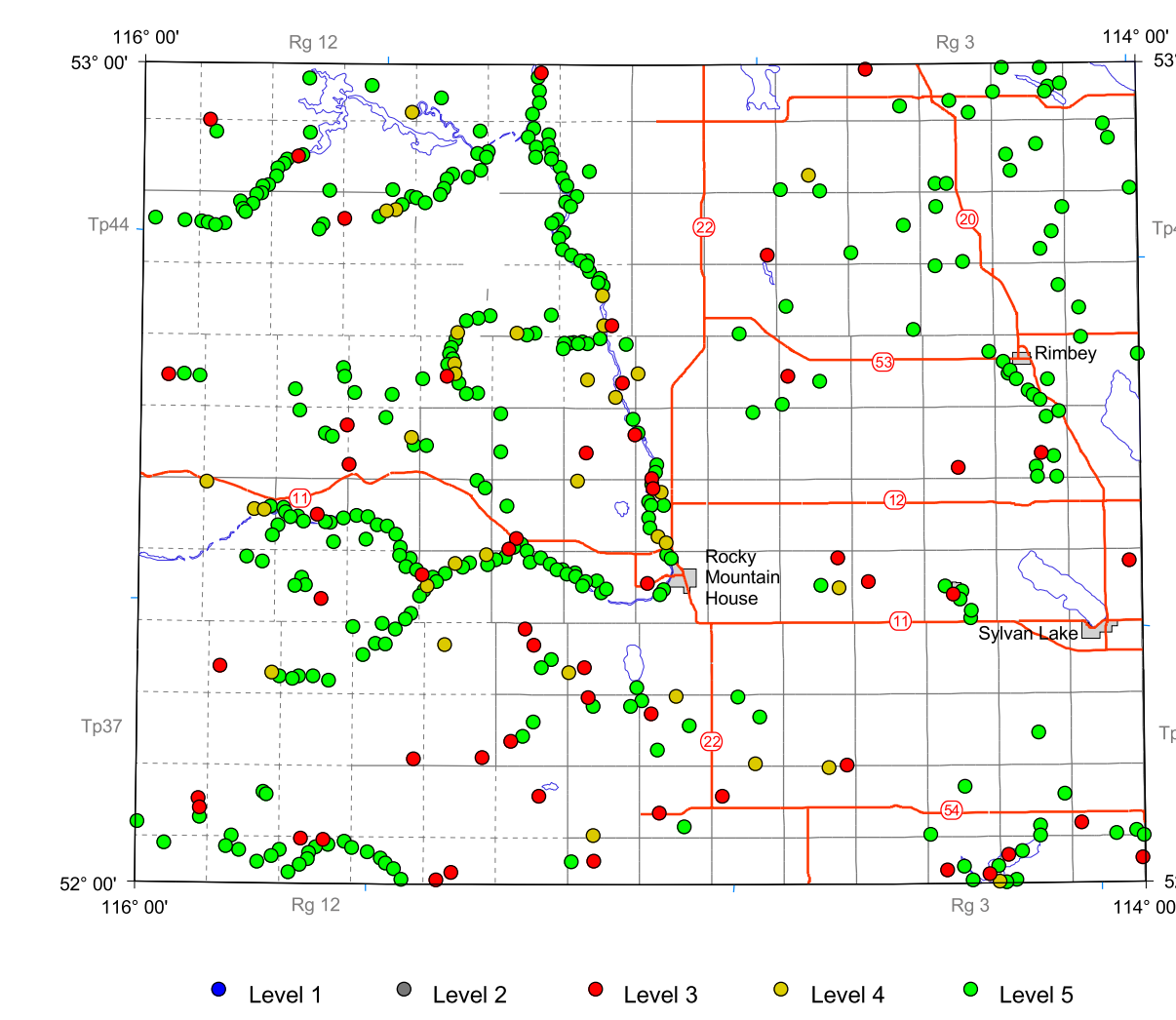
clean deposit: contains less than 3% silt and clay.
 dirty deposit: contains 3% to 10% silt and clay.
 very dirty deposit: contains greater than 10% silt and clay.
 unknown: contains unknown percentage of mixed silt and clay.

BASEMAP LEGEND

River and lake	[Blue line]
River - intermittent	[Dashed blue line]
Road - paved	[Red line]
Road - gravel	[Orange line]
Road - unimproved	[Yellow line]
Railway line	[Black line with cross-ticks]
Trail	[Dotted line]
Park boundary - provincial/national	[Green dashed line]
City/town	[Grey area]
Metis settlement	[Purple area]
Indian reserve	[Pink area]
Township/range - surveyed	[Red dashed line]
Township/range - unsurveyed	[Black dashed line]
UTM, zone 11 grid	[Grid lines]

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

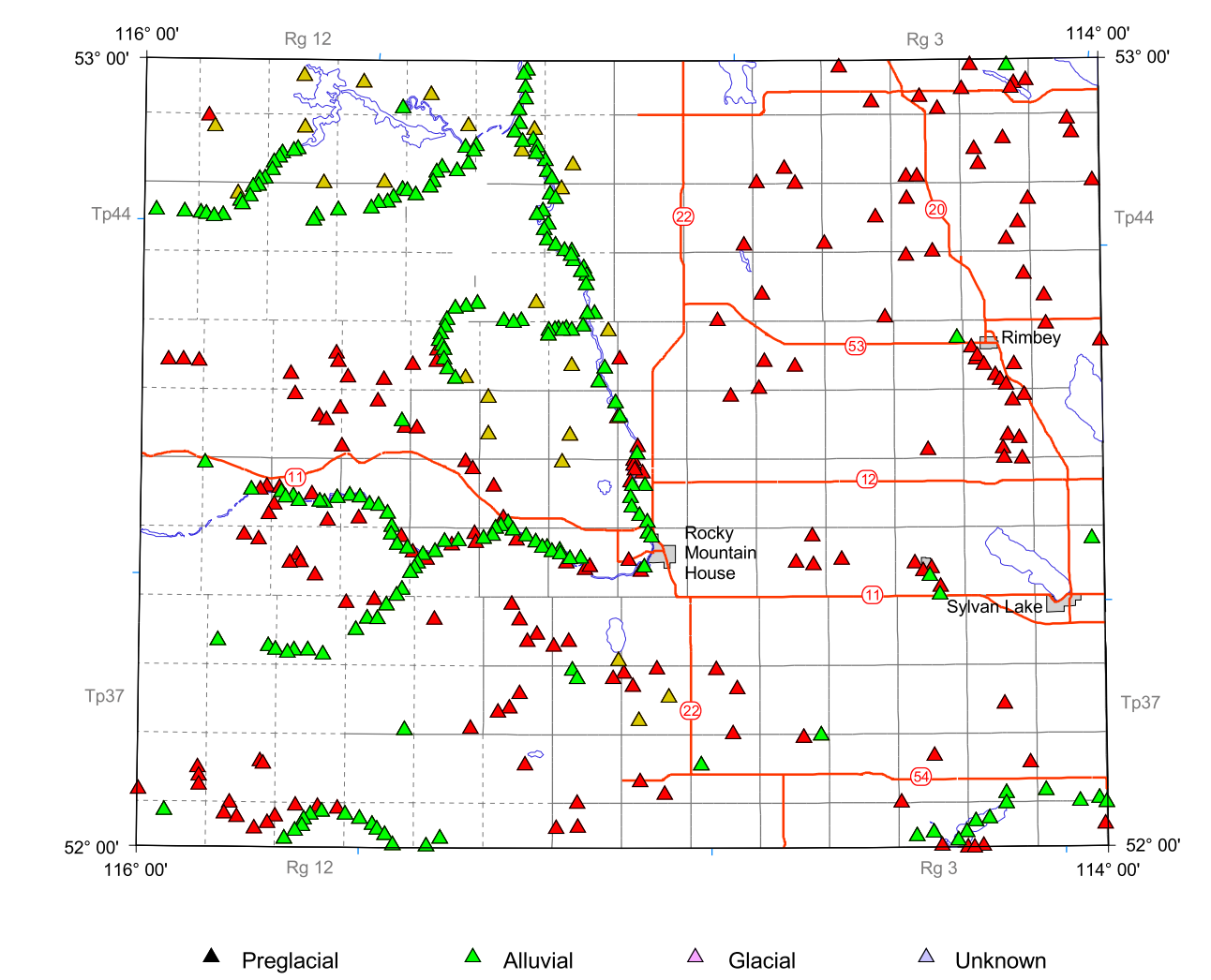
Study Level



Study Level Definitions:

Level 1 Aggregate reserves confirmed by grid testing and sampling.
 Level 2 Aggregate resources 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 by 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.

Genesis or Geological Feature



References:

Bayrock, L.A. and Reimchen, T.H.F. (1980): Surficial geology of the Alberta foothills and Rocky Mountains, NTS 83L, NTS 83F, NTS 83B, NTS 82O, NTS 82J, NTS 82G, NTS 82H; Alberta Research Council, Map 150, scale 1:250 000.

Holter, M.E. (1975): Gravel resources of the Red Deer area; Alberta Research Council, ESR 75-03, 54 p.

Richardson, R.J.H. (1982): Aggregate resources of the Blue Rapids map area, NTS 83G/3; Alberta Research Council, Map A83G3, scale 1:50 000.

Scafe, D.W. and Sham, P.C. (1987): Sand and gravel resources of the Rocky Mountain House (west three quarters of 83B) and Calgary (north-central of 82O) map areas, AB; Alberta Research Council, OFR 1987-03, 232 p.

Sham, P. (1981): Aggregate resources of the Red Deer map area, NTS 83A; Alberta Research Council, Map A83A, scale 1:250 000.

Shetsen, I. (1976): Sand and gravel resources of the Battle River region, central Alberta; Alberta Research Council, OFR 1976-15, 14 p.

Acknowledgement:

GIS/Data Base/ Cartography by:
 M.C. Price, D.K. Chao, B.E. Schmidtke
 (Livingstone Geological Services)
 Z.A. Amer and N.L. Blundon

Digital base map provided by:
 Spatial Data Warehouse

Disclaimer:

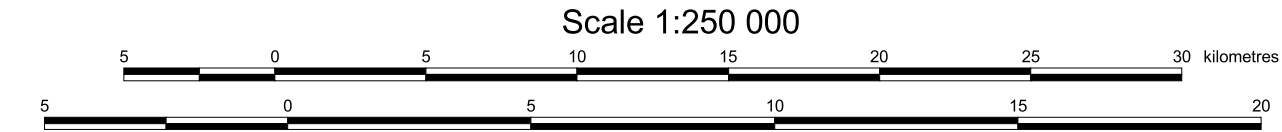
The Alberta Geological Survey and its employees and contractors make no warranty, guarantee or representation, express or implied, or assume any legal liability regarding the correctness, accuracy, completeness, or reliability of this publication. When using information from this publication in other publications or presentations, due acknowledgement should be given to the Alberta Energy and Utilities Board/Alberta Geological Survey.

Published 2003
 Copies of this map may be obtained from:
 Information Sales
 Alberta Geological Survey
 Telephone: (780) 422-3767
 Web site: www.ags.gov.ab.ca

Map 281
Sand and Gravel Deposits with Aggregate Potential
Rocky Mountain House, Alberta (NTS 83B)

Geology compiled by: W.A.D. Edwards, H.D. Budney, T. Berezniuk and L. Butkovic

Scale 1:250 000



Projection: Universal Transverse Mercator, Zone 11
 Datum: North American Datum, 1983

