

Queensland geochemistry data

As a significant addition to its current store of digital data for geoscience studies, the Geological Survey of Queensland is now releasing a database of over 1.4 million accurately compiled and fully attributed geochemistry data points compiled from open-file company reports by Terra Search Pty Ltd.

These data include 352 329 stream sediment assays, 445 171 soil assays, 470 whole rock geochemistry analyses,

118 944 rock chip information data points, and 56 962 drillhole locations (with 292 170 downhole assays and 149 007 downhole geologic information identifications). The data include information from Queensland's productive mineral provinces (see map over), and is divided into five packages (as individual CD products) at the cost of provision of \$116.35 per CD.

The cost of provision is an initiative of the Department of Natural Resources and Mines to improve access of explorers to essential geoscience information. The primary aims are to:

- provide high quality digital geoscience data for the exploration industry to target prospective mineralised areas in Queensland
- provide user-friendly digital data that can be easily retrieved, interrogated, visualised, and integrated into a GIS environment.

Product descriptions

Queensland geochemistry data packages are not GIS (geographic information system) products, but contain comprehensive records of information extracted from the

open-file company reports. The data is delivered in Explorer 3 format, and is accompanied by ASCII and Mapinfo tables.

Each package contains a set-up program, which will install the Explorer 3 software and files onto the users' system. The Explorer 3 program is distributed as a read-only software with the CD, and contains reporting and export options, but does not allow edits, deleting or adding.

Terra Search Pty Ltd designed the Explorer 3 database management system in collaboration with several of Australia's major mining companies, Australian Mineral Industry Research Association (AMIRA), state government Geological Surveys and Geoscience Australia (GA).

The data management system stores and retains all facets of quantifiable exploration data, including standardisation of many of the codes from Geoscience Australia. Within the Explorer 3 format, individual samples are linked in a matrix of relational tables and libraries, in regard to location, sample type, analytical results and methods. The data is fully relational and supports queries at any level.

GEOCHEMISTRY DATABASE PACKAGES	DATA POINTS
Mount Isa West	211451
Mount Isa East	412628
North East Queensland and Ravenswood Blocks	435686
Central Queensland and Drummond Basin	227481
South East Queensland	127807
TOTAL	1415053

Geological Survey



