

Inspection and sampling of core and cuttings

The EDC holds 180 000 trays (approximately 380 000 m) of core plus petroleum well cuttings, representing samples from about 8000 holes.

Stored core and cuttings can be inspected in the EDC's purpose-built all weather courtyard with 24-hours notice required to lay out core. Sampling and slabbing facilities are available. Requests to view core and cuttings should be made in writing to the EDC manager. Visitors can request permission to take samples of core and cuttings for further analysis, subject to GSQ terms and conditions.

Acid, sample bags, tags and geopicks/hammers are supplied. Covered footwear is required in the courtyard area of the EDC.

Exploration Data Centre fees

Current rates and fees can be viewed on the Geoscience Services tab in the GSQ product and service catalogue at <https://www.business.qld.gov.au/industry/mining/geoscience-data-information/products-services-catalogue>

These rates apply to commercial clients, including students undertaking sponsored research. Reduced rates for unsponsored postgraduate students and class visits by undergraduates are at the manager's discretion. The facility can be booked for sole use.



EDC core viewing area

Exploration Data Centre

68 Pineapple Street, Zillmere Qld 4034
Phone: +61 7 3263 6833 Fax: +61 7 3263 7466
B/Hrs 8 am – 5 pm weekdays or by appointment

Manager

Phone: +61 7 3863 8710
Email: mark.livingstone@dnrm.qld.gov.au

Customer Service Officer

Phone: +61 7 3863 8711
Email: josephine.wardill@dnrm.qld.gov.au

HyLogger™ Geoscientist

Phone: +61 7 3863 8725
Email: suraj.gopalakrishnan@dnrm.qld.gov.au

Seismic Data Officer

Phone: +61 7 3035 5243
Email: matthew.goldman@dnrm.qld.gov.au

Regional contacts

Mount Isa Drill Core Facility

Manager

Phone: +61 7 4743 0078
Email: randal.thorpe@dnrm.qld.gov.au

Regional Geologist (North)

Phone: +61 7 4447 9224
Email: lucy.chapman@dnrm.qld.gov.au

Regional Geologist (Central)

Phone: +61 7 4936 0368
Email: celeste.cronin-stacey@dnrm.qld.gov.au

Regional Geologist (South)

Phone: +61 7 3199 7792
Email: andrew.mcnamara@dnrm.qld.gov.au

Geological information

Phone: +61 7 3006 4666
Email: geological_info@dnrm.qld.gov.au
www.dnrm.qld.gov.au



Produced by Spatial and Graphic Services, Geological Survey of Queensland
© The State of Queensland (Department of Natural Resources and Mines) 2015
<http://creativecommons.org/licenses/by/3.0/au/deed.en>

Exploration Data Centre



Managing significant holdings of drill core and cuttings, seismic data, exploration reports and geological samples for the benefit of Queensland and the mining industry

The Exploration Data Centre (EDC) was established in the early 1950s to house coal cores for the Geological Survey of Queensland (GSQ). It moved to Zillmere, northern Brisbane in 1979 and now stores Queensland's geoscientific data and information. It holds the following collections:

- drill core and cuttings from government and company exploration programs
- rock/geochem samples and petrographic slides from regional mapping and field work
- geophysical data including raw and processed seismic data
- company exploration reports
- HyLogger™ technology

Digital catalogues of material held at EDC link to various geoscientific databases including boreholes and geophysical surveys.

Drill core and cuttings

The EDC's drill core and petroleum-well cuttings (rock chips) are representative samples of Queensland's known mineral deposits, coal and petroleum basin strata. They are made available to support exploration, mining and research.

The samples provide insights into the state's geological features and resource potential. The aim is to deliver



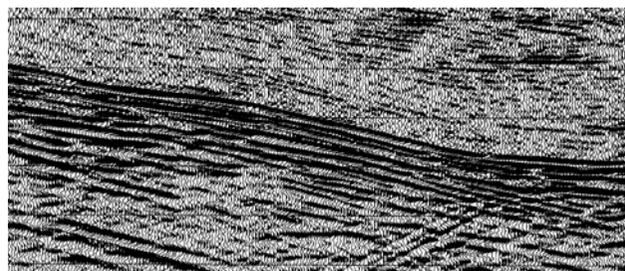
Part of the EDC core store

a complete stratigraphic succession of all Queensland provinces and major geological formations.

GSQ's stratigraphic and coal-drilling programs from 1950 to 1985 are the basis of the collection. There is core from earlier work, some dating back to the 1890s, and company material is continually added as a condition of exploration under various mining Acts and regulations.

Geophysical data

The EDC is the official repository for all seismic data submitted under legislation. It stores digital field and processed seismic survey data as well as support data and scanned and original seipia sections. All old seismic tape media has been transcribed to new media. Enquiries about these should be directed to the Seismic Data Officer. Paper seismic survey support data has recently been scanned and public seismic data will be made available through the QDEX Data online delivery system.



Seismic data

HyLogger™ is a non-destructive spectroscopic scanning technology developed by CSIRO that offers a cost-effective means of capturing detailed mineralogical data along with a high-resolution digital image of the drill core in their original trays, thus digitising the whole core-logging process. These reflectance spectroscopic data, collected between visible–near infrared (VNIR; 400–1000 nm), shortwave infrared (SWIR; 1000–2500 nm) and thermal infrared (TIR; 8000–12000 nm) wavelengths, extract new geological knowledge by identifying spectrally distinct features of different rock types, their mineralogy and their alteration signatures.

HyLogger™ data can be accessed through the online facility hosted by AuScope National Virtual Core Library <http://portal.auscope.org/>. Specific data delivery should be requested through the HyLogger™ Geoscientist.



HyLogger™ in operation

Company exploration reports

Digital copies of all open file exploration reports are available through the QDEX Reports System at <https://www.business.qld.gov.au/business/support-tools-grants/services/mapping-data-imagery/data/mining-resources-data/qdex-reports>

There are more than 34 000 hard-copy exploration reports in the EDC collection dating back to the 1950s that have also been microfilmed and scanned into QDEX.

Regional core repository

The John Campbell Miles Drill Core Facility (MIDCF) is located in **Mount Isa**. The collection can be examined by contacting the Manager, MIDCF.

Core submission

Companies holding exploration permits and authorities to prospect are required by law to submit representative core and cuttings samples to DNRM. Arrangements for receipt and storage of samples derived from drilling undertaken should be made by contacting the nearest Regional Geologist or the EDC manager if you are unsure about the requirements that apply to you.

All core/cuttings submitted to the EDC must be accompanied by relevant 'departmental delivery requirement' forms, which are available from the EDC or website <https://www.business.qld.gov.au/industry/mining/geoscience-data-information/core-rock-collections>