

Survey Database

Description

The Survey Database (SDB) is the major repository for survey mark information within South Australia and was created to support the Surveyor General's statutory responsibilities.

Survey mark data underpins the State's cadastre and provides valuable reference data to a wide clientele, including the Surveying Industry in particular.

The SDB stores coordinates, elevations, accuracy statements and descriptive information about survey marks together with references to connecting plans of survey and visitation information.

It comprises approximately 180,000 survey marks, together with 680,000 associated plan references.

All permanent survey marks are registered. Non permanent survey marks that form part of the state's horizontal and/or vertical control network are also generally registered.

Information Stored

Mark number
Coordinates
Coordinate datum
Coordinate accuracy
Adjusted
Method, purpose and authority
Coordinate entry date
Elevation
Elevation datum
Elevation accuracy
Adjusted
Method, purpose and authority
Elevation entry date
Type of survey mark
Status
Existing or gone
Mark number cross-referencing
Plan, document or visitation information
Docket numbers
Date of fieldwork
Remarks

Access

Access to the public is at a cost per enquiry. Clients holding accounts can access the SDB over the Internet.

Digital data from location based searches is also supplied to clients on request.

Digital data is available in several formats including DGN, ARC, DXF, DWG, ASCII and others.

Maintenance

Each certified plan of survey approved by the Land Services Group, Department of Transport, Energy and Infrastructure (DTEI), is processed to update the SDB.

Advice from other government agencies, local government and the surveying community relating to the emplacement of survey marks is also received and processed.

Survey mark and plan information is available within 1week of receipt of the relevant information from the provider.

Lineage

The source data for the SDB was originally obtained from hardcopy indexing systems maintained by various South Australian government agencies, principally the former Department of Lands.

These various datasets were converted to digital form in the late 1970's and have been maintained digitally ever since.

Positional Accuracy

Positional accuracy for each survey mark is noted in the dataset with values for Order and Class included.

The positions of many survey marks have been determined by survey, to varying degrees of survey accuracy.

Within Tertiary Network Areas the absolute accuracy of a Third order survey mark is approximately +/- 0.07m at a 95% confidence level.

The relative accuracy of a Third order survey mark is approximately +/- 0.02m at a 95% confidence level.

This level of accuracy is typical in suburban areas.

In areas where a geodetic network has not been established, coordinates have been determined by digitising with reference to the Digital Cadastral Database (DCDB).

In these cases positional accuracy is dependent on the accuracy of the DCDB.

Related Products

Property Location Browser (PLB) - Displays the location and unique number for each survey mark registered in the SDB.

PIERS - Displays scanned images of various plans and documents referenced in the SDB.

Refer to Land Services Group, DTEI for access to this product: www.landservices.sa.gov.au