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| SMES Factsheet |
| Survey Marks Enquiry Service |

## The Survey Marks Enquiry Service (SMES) provides free, online access to the survey control mark information managed by Surveyor-General Victoria.

## What is SMES?

SMES is the online mapping application that provides open access to a database of all survey control mark information in Victoria. SMES supports two-way interaction with the survey control mark database, affording highly flexible searching and download options, as well as the ability to lodge new information or amendments. SMES is also used by Surveyor-General Victoria to maintain Australia’s geodetic and height datums – Geocentric Datum of Australia 2020 (GDA2020), Geocentric Datum of Australia 1994 (GDA94) and Australian Height Datum (AHD).

## Information in SMES

SMES contains the most up-to-date survey control mark information held at Surveyor-General Victoria. It includes:

• latest GDA2020 and GDA94 coordinates and AHD height values for survey control network (SCN) marks resulting from ongoing network adjustments

• estimates of positional uncertainty – horizontal, vertical

• additional survey mark information and metadata, such as mark status, observation techniques, source and adjustment details

• underlying VicMap data to support interactive map searching

• permanent mark (PM) sketch plans

• location of submitted primary cadastral marks (PCM).

## Features of SMES

SMES is part of a consolidation of all Land Use Victoria’s web mapping applications in an Open Source VicGIS framework (based on GeoServer). Additional features include:

• a range of file types accepted through SMES submissions under Supporting Files

• a graphic user interface with updated VicMap data

• Google street view incorporated into the user interface

• flexible search options

• multiple format options for downloading information

• the ability for surveyors and spatial information professionals to submit measurements for inclusion in the Victorian network adjustment

• revised survey control mark categories and symbols

• improvements to the database for the management of information about the survey control mark network

• an efficient and rigorous datum maintenance system for the automated processing of Victoria’s GDA2020 and GDA94 coordinates and AHD heights

• Open Web Services to support query of SMES information using location-based services applications.

## Survey mark categories

|  |  |  |
| --- | --- | --- |
|  | **SCN** (GDA2020 /GDA94) | **Non-SCN** (GDA2020/ GDA94) |
| **Adjusted AHD** |  |  |
| **AHD** |  |  |
| **Estimated AHD** |  |  |
| **No Height** |   |  |
|  |
| **Defective** |  |  |

SMES survey control mark categories and symbols provide for simple and convenient access to marks of recognised lineage and quality. The table below summarises the revised symbols.

## Benefits of SMES

SMES provides a range of benefits to Victoria’s surveying and spatial information community, including:

• easy access to the most up-to-date survey control mark information that supports the alignment of surveys to GDA2020 and GDA94 as well as AHD

• reduced duplication of work effort

• ongoing maintenance of survey control mark information from the user community

• improved validation of information lodged by surveyors and spatial information professionals

• survey control mark information presented in a variety of formats to suit a range of user needs.

• additional functionality continues to be added to SMES to support improved performance and access to survey control mark information.

## Contact SMES

Any questions, concerns or issues can be directed to our friendly SMES Support team via phone or email.

**SMES support phone:** 03 9194 0770

**SMES support email:** smes.support@delwp.vic.gov.au

**SMES website:** <http://maps.land.vic.gov.au/smes>

**SGV Geodetic Survey website:** <https://www.land.vic.gov.au/surveying/services/survey-marks-enquiry-service>

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