Title	Hydrogeological Landscapes of New South Wales and the Australian Capital Territory
Alternative title(s)	HGL Study Areas - NSW & ACT
Abstract	Hydrogeological Landscape (HGL) boundaries and descriptions have been derived for a number of project areas across NSW. The HGL concept provides a structure for the understanding of how salinity manifests itself in the landscape and how differences in salinity are expressed across the landscape. A HGL spatially defines areas of similar salt stores and pathways for salt mobilisation. The process of HGL determination relies on the integration of a number of factors: geology, soils, slope, regolith depth, and climate; an understanding of the differences in salinity development; and the impacts (land salinity/salt load/water electrical conductivity) in landscapes. Information sources such as soil maps, site characterisation, salinity site mapping, hydrogeological conditions and surface and groundwater data are combined to develop standard descriptions for each HGL unit. Derivative maps showing *overall salinity hazard* and individual hazard due to salinity expressed as *land salinity, salt export (load)* and *stream EC* are available for most mapped areas, and are also viewable as custom layers in eSPADE. Overall salinity hazard uses a five class system (very low, low, moderate, high, very high). This helps the user identify and prioritise where salinity management actions may need to be targeted. Hazard due to salt land, salt export and stream EC uses a three class system (low, moderate, high). Knowing which of these are of greater significance in a HGL unit helps the user decide on the types of management actions that may be applied. Spatial resolution varies between 1:50 000 and 1:250 000, depending on the resolution of the source data used to define the HGL boundaries.

Resource locator

Data Quality Statement	Name: Data Quality Statement Protocol: WWW:DOWNLOAD-1.0-http--download Description: DQS – Hydrogeological Landscapes of NSW and the ACT Function: download
eSPADE	Name: eSPADE Protocol: WWW:DOWNLOAD-1.0-http--download Description: eSPADE is a Google Maps-based information system that allows easy map-based access to all public soil and land information in the NSW Soil and Land Information System (SALIS), including both soil profiles and soil mapping. Also available via eSPADE are a number of Statewide soil maps, including the Land and Soil Capability and Inherent Soil Fertility maps that provide the foundation for the mapping of Biophysical Strategic Agricultural Land (BSAL). Other Statewide map layers of specific soil and land attributes are also available through eSPADE. Function: download

Unique resource identifier

Code	8bb2763b-6be0-4385-904c-9d1e388bc085
Presentation form	Map digital
Edition	First
Dataset language	English

Metadata standard

Name	ISO 19115
Edition	2016

Dataset URI	https://datasets.seed.nsw.gov.au/dataset/8bb2763b-6be0-4385-904c-9d1e388bc085
Purpose	This metadata provides a general introduction to HGL mapping areas in NSW and ACT. Data packages containing GIS data and associated HGL descriptions for the individual mapping areas are available for download separately.
Status	On going

Spatial representation

Type	vector
Geometric Object Type	complex

Spatial reference system

Code identifying the spatial reference system	4283

Spatial resolution	0 m
Additional information source	Boundaries for this layer come from individual HGL projects which were mapped at different scales. There may be edge matching and scaling differences between adjacent project areas.

Topic category

Keyword set

keyword value	SOIL
	WATER-Salinity
	GEOSCIENCES-Geology
	GEOSCIENCES-Geomorphology
	HAZARDS
	LAND-Use
	GEOSCIENCES-Hydrogeology
	BOUNDARIES-Biophysical

Originating controlled vocabulary

Title	ANZLIC Search Words
Reference date	2008-05-16

Geographic location

West bounding longitude	139
East bounding longitude	155

North bounding latitude	-38
South bounding latitude	-27

Vertical extent information

Minimum value	-100
Maximum value	2228
Coordinate reference system	
Authority code	urn:ogc:def:cs:EPSG::
Code identifying the coordinate reference system	5711

Temporal extent

Begin position	2008-01-01
End position	N/A

Dataset reference date

Resource maintenance

Maintenance and update frequency	Irregular
Contact info	
Contact position	Data Broker
Organisation name	NSW Department of Climate Change, Energy, the Environment and Water
Telephone number	131555
Email address	data.broker@environment.nsw.gov.au
Web address	https://www.nsw.gov.au/departments-and-agencies/dcceew
Responsible party role	pointOfContact

Lineage

Hydrogeological landscape (HGL) mapping uses the following base data for delineation of map units: published 1:1 million and 1:250 000 geological mapping data (polygon); published 1:250 000 soil landscape data (polygon); soil profile data from the OEH SALIS database (point); and Digital Elevation Models (DEM) and derivative products taken from the DEM. The published and reconnaissance level mapping are combined and rationalised to create complete hydrogeological landscape classification (map unit) coverage for each study area.

Limitations on public access

Scope	dataset

DQ Completeness Commission

Effective date	2016-11-01
Explanation	Spatial data capture is complete for selected study areas. Additional areas will added as future projects are completed.

DQ Topological Consistency

Effective date	2016-11-01
Explanation	All polygons in the coverage are topologically correct and all polygons have been attributed in the original datasets. Data has been visually checked at applicable scales.

DQ Absolute External Positional Accuracy

Effective date	2016-11-01
Explanation	The accuracy of the coverage varies across the mapping area as map polygon boundaries were derived from different sources. HGL boundaries derived from published and draft 1:100 000 scale mapping are generally accurate to 100 m. HGL boundaries derived from published 1:250 000 scale mapping are approximate and generally accurate to 250 m.

DQ Non Quantitative Attribute Correctness

Effective date	2016-11-01
Explanation	All polygons are labelled with a hydrogeological landscape unit tag, and attributed with information relevant to salinity management.

Responsible party

Contact position	Data Broker
Organisation name	NSW Department of Climate Change, Energy, the Environment and Water
Telephone number	131555
Email address	data.broker@environment.nsw.gov.au
Web address	https://www.nsw.gov.au/departments-and-agencies/dcceew
Responsible party role	pointOfContact

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Metadata date

2024-02-26T13:37:24.204770

Metadata language