

Title	Hydrogeological Landscapes of the Capertee and Coxs River Valleys: August 2019 (Second Edition)
Alternative title(s)	Capertee and Coxs River Valleys Hydrogeological Landscapes (HGL)
Abstract	<p><i>This dataset supersedes 'Capertee-Lithgow Valleys Hydrogeological Landscapes: June 2010 (First Edition)'. It consolidates the original four volumes into one report. Hydrogeological landscape (HGL) boundaries and descriptions have been reviewed and modified as necessary.</i></p> <p><i>A reformatted version of the main report was added to the data package in January 2020.</i></p> <p>The focus of this dataset is the Capertee and Coxs River Valleys in NSW. It contains digital spatial data developed to assist in land management decision making. The dataset contains hazard ratings for land salinity, stream salt load and stream EC as well as overall salinity hazard for each HGL unit. The associated report and descriptions provide information on salinity management for each HGL unit.</p> <p>The HGL concept provides a structure for understanding how differences in salinity are expressed across the landscape. A HGL spatially differentiates areas with similar salt stores and pathways for salt mobilisation. The process of delineating a HGL relies on the integration of a number of causative factors: geology, soils, slope, regolith thickness, and climate; an understanding of the different modes of salinity development; and the impacts of salinity within landscapes (land salinity, salt load and salt concentration in streams due to salt contributions from base flow and runoff). Information sources such as soil landscape maps, site characterisation, salinity occurrence maps, hydrogeological data, surface water and groundwater data are incorporated into standardised unit descriptions.</p> <p>Spatial resolution for this product is 1:100 000.</p> <p><i>Hydrogeological Landscapes (HGL) and associated salinity impacts and hazards are available as a custom layer in eSPADE, which includes links to individual HGL unit descriptions.</i></p>
Resource locator	
Data Quality Statement	<p>Name: Data Quality Statement</p> <p>Protocol: WWW:DOWNLOAD-1.0-http--download</p> <p>Description:</p> <p>DQS – Hydrogeological Landscapes of the Capertee and Coxs River Valleys: August 2019 (Second Edition)</p> <p>Function: download</p>
Attributes of Capertee and Coxs River Valley HGL	<p>Name: Attributes of Capertee and Coxs River Valley HGL</p> <p>Protocol: WWW:DOWNLOAD-1.0-http--download</p> <p>Description:</p> <p>Summary of HGL attributes of Capertee and Coxs River Valley study areas.</p> <p>Function: download</p>
Connect to eSPADE	<p>Name: Connect to eSPADE</p> <p>Protocol: WWW:DOWNLOAD-1.0-http--download</p> <p>Description:</p> <p>View this dataset and other soil-related datasets on eSPADE soil spatial viewer.</p> <p>Function: download</p>
Download Package	<p>Name: Download Package</p> <p>Protocol: WWW:DOWNLOAD-1.0-http--download</p> <p>Description:</p> <p>Contains Capertee and Coxs River HGL attributed boundary geodatabase, PDF versions</p>

of HGL and Overall Salinity Hazard maps, and PDF versions of Capertee and Coxs River Valleys HGL report and individual HGL descriptions.

A reformatted version of the main report was added in January 2020.

Function: download

Unique resource identifier

Code 1493496b-642b-469e-9536-b5815e7aaee0

Presentation form Map digital

Edition Second

Dataset language English

Metadata standard

Name ISO 19115

Edition 2016

Dataset URI <https://datasets.seed.nsw.gov.au/dataset/1493496b-642b-469e-9536-b5815e7aaee0>

Purpose This is an update to the data package generated for the Hawkesbury-Nepean Catchment Management Authority (HNCMA). Funding for this project was from the NSW Salinity Strategy Enhancement Program.

Status Completed

Spatial representation

Type vector

Geometric Object Type complex

Spatial reference system

Code identifying the spatial reference system 4283

Equivalent scale 1:None

Additional information source

Source datasets: Soil and Land Resources of the Hawkesbury-Nepean Catchment (DECCW); The Vegetation of the Western Blue Mountains (DECCW); Southeast NSW Native Vegetation Classification and Mapping - SCIVI VIS_ID 2230 (DECCW); GEODATA TOPO 250K Series 3 (Geoscience Australia); Surface Geology of Australia 1:1 million scale, New South Wales - 2nd edition (Geoscience Australia); Bathurst 1:250 000 Geological Series Sheet SI 55-08, second edition (NSW Geological Survey); Bathurst 1:250 000 Geological Series Sheet SI 55-04, second edition (NSW Geological Survey); Singleton 1:250 000 Geological Series Sheet SI 56-01, first edition (NSW Geological Survey); Sydney 1:250 000 Geological Series Sheet SI 56-05, third edition (NSW Geological Survey); New South Wales DTDB Landform Theme 50K Digital Terrain Models (Land and Property Management Authority); New South Wales Digital Topographic Database DTDB (Land and Property Management Authority); High resolution annual rainfall gridded datasets from 1900 onwards (Bureau of Meteorology).

Topic category	
Keyword set	
keyword value	<p>WATER-Salinity</p> <p>SOIL</p> <p>LAND-Use</p> <p>HAZARDS</p> <p>GEOSCIENCES-Geology</p> <p>GEOSCIENCES-Geomorphology</p> <p>GEOSCIENCES-Hydrogeology</p> <p>VEGETATION</p>
Originating controlled vocabulary	
Title	ANZLIC Search Words
Reference date	2008-05-16
Geographic location	
West bounding longitude	149.9
East bounding longitude	150.34
North bounding latitude	-33.82
South bounding latitude	-32.85
NSW Place Name	Capertee and Coxs River Catchments
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	2008-07-01
End position	N/A
Dataset reference date	
Resource maintenance	
Maintenance and update frequency	Not planned
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

The hydrogeological landscape (HGL) mapping used the following base data for delineation of map units: Published 1:250 000 geological mapping data (polygon); Published 1:100 000 and 1:250 000 soil landscape data (polygon); Soil profile data from the DECCW SALIS database (point); Digital Elevation Model (DEM) for Hawkesbury-Nepean CMA and derivative products taken from the 25 metre DEM; Vegetation of the Western Blue Mountains including the Capertee, Coxs and Jenolan-Gurnang Areas - VIS_ID 2231 (polygon); Southeast NSW Native Vegetation Classification and Mapping - SCIVI VIS_ID 2230 (polygon); and ; Field observations and assessment.

The published and reconnaissance level mapping were combined and rationalised to create a complete hydrogeological landscape classification (map unit) coverage for the entire Capertee and Coxs River valley areas.

Limitations on public access

Scope dataset

DQ Completeness Commission

Effective date 2019-08-01

Explanation Spatial data capture is complete for presentation and usage at 1:100 000 only.

DQ Completeness Omission

Effective date 2019-08-01

DQ Topological Consistency

Effective date 2019-08-01

Explanation All polygons in the coverage are topologically correct and all polygons have been attributed. Data has been visually checked at applicable scales.

DQ Absolute External Positional Accuracy

Effective date 2019-08-01

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 2019-08-01

Explanation All polygons are labelled with a hydrogeological landscape unit tag, and attributed with information relevant to salinity management. Attributes were checked as part of routine GIS capture quality assurance procedures, including a visual check of polygon tags against field data. During the fieldwork phase, regular meetings were held to discuss and review methods, processes and consistency in landscape interpretation and documentation.

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 2024-02-26T12:44:21.613363

Metadata language