Title

Reconnaissance Soil and Land Resources of the Murray Catchment

Abstract

This digital soil landscape product contains natural resource mapping for the Murray Catchment Management Authority area. It integrates numerous soil mapping datasets into a single seamless coverage and provides access to numerous layers of spatial information and reports on soil types, terrain and physical constraints to use for the one hundred and fifty one map units. This information will assist in informed natural resource decision making, planning and environmental modelling throughout the catchment such as help target investments in land management and future soil and land incentive projects for the catchment.

Each soil landscape mapping unit is an inventory of soil and landscape information with relatively uniform land management requirements, allowing major soil and landscape constraints to be identified.

Constraints assessed in this dataset include shallow soils, steep slopes, mass movement hazard, non-cohesive soils, discharge zones, recharge zones, salinity, wind, sheet and gully erosion hazards, seasonal waterlogging and flood hazard. Soils are described using the Australian Soil Classification and the Great Soil Groups systems.

Related Datasets: The dataset area is also covered by the mapping of the Hydrogeological landscapes of NSW and Land Systems of Western New South Wales.

Online Maps: This and related datasets can be viewed using eSPADE (NSW's soil spatial viewer), which contains a suite of soil and landscape information including soil profile data. Many of these datasets have hot-linked soil reports. An alternative viewer is the SEED Map; an ideal way to see what other natural resources datasets (e.g. vegetation) are available for this map area.

Reference: Office of Environment and Heritage, 2010, *Reconnaissance Soil and Land Resources of the Murray Catchment*, NSW Office of Environment and Heritage, Sydney.

Resource locator

Data quality statement	Name: Data quality statement Protocol: WWW:DOWNLOAD-1.0-http--download Description: DQS - Reconnaissance Soil and Land Resources of the Murray Catchment Function: download
Show on eSPADE Web Map	Name: Show on eSPADE Web Map Protocol: WWW:DOWNLOAD-1.0-http--download Description: View dataset on eSPADE spatial viewer. Function: download
Soil and land resource data package	Name: Soil and land resource data package Protocol: WWW:DOWNLOAD-1.0-http--download Description: Download data package: shapefile and PDF reports of this product. Function: download
Soil map information	Name: Soil map information Protocol: WWW:DOWNLOAD-1.0-http--download Description: Web page about soil maps in NSW. Function: download
Land and soil information	Name: Land and soil information Protocol: WWW:DOWNLOAD-1.0-http--download

	Description: Web page about land and soil information in NSW. Function: download

Unique resource identifier

Code	c7b14588-e5c9-4447-906d-67dc8c445c90

Presentation form	Map digital
Edition	1.0 (v160929)
Dataset language	English

Metadata standard

Name	ISO 19115
Edition	2016

Dataset URI	https://datasets.seed.nsw.gov.au/dataset/c7b14588-e5c9-4447-906d-67dc8c445c90
Purpose	This data package was generated for use by the Murray Catchment Management Authority (CMA) in 2009.
Status	Completed

Spatial representation

Type	vector
Geometric Object Type	surface

Spatial reference system

Code identifying the spatial reference system	4283

Equivalent scale	1:None
Additional information source	.

Topic category

Keyword set

keyword value	SOIL SOIL-Chemistry SOIL-Erosion SOIL-Physics LAND-Topography

	LAND-Use
	HAZARDS-Landslip
	HAZARDS-Flood
	VEGETATION
Originating controlled vocabulary	
Title	ANZLIC Search Words
Reference date	2008-05-16

Geographic location

West bounding longitude	142.77832
East bounding longitude	148.557129
North bounding latitude	-36.791691
South bounding latitude	-34.597042
NSW Place Name	Murray Catchment Management Authority area

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	2009-08-01
End position	N/A

Dataset reference date

Resource maintenance

Maintenance and update frequency	As needed
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 mapping incorporates existing mapping and new linework undertaken by the NSW Government (Department of Land and Water Conservation, Department of Sustainable Natural Resources, Department of Natural Resources and Department of Environment, Climate Change and Water). These include: * existing published 1:100,000 scale soil landscape mapping (Holbrook and Wagga Wagga soil landscapes) with some improved delineation of rolling and steep terrain on Siluran granite parent materials on the Holbrook sheet. * existing unpublished reconnaissance 1:100,000 scale soil landscape mapping with minor linework rectification, Southern Comprehensive Regional Assessment (SCRA) project mapping covering the Kosciuszko and Jacobs Creek map sheets; * Existing unpublished reconnaissance 1:250,000 – 1:500,000 scale soil mapping, collected as part of the Healthy Soils, Healthy Landscape project; * New linework at reconnaissance 1:100,000 scale (Rosewood and Yarrangobilly map sheets).

Published 1:100,000 soil landscape mapping -

Map units delineated using geological mapping, aerial photographs and radiometrics (if available at time of survey) onto 1:25 000 topographic base sheets. These boundaries were comprehensively field checked and amended. Soils have been examined and described in detail to a published soil landscape standard. Comprehensive laboratory data is available for all dominant soil types within each map units.

Existing 1:100,000 reconnaissance soil landscape mapping -

Map units delineated rapidly using geology mapping and 1:50,000 scale black and white aerial photographs onto 1:100,000 base sheets. Limited field checking of boundaries. Major soil and landscape information were derived from limited existing and new soil profile collection and field observations.

Existing 1:250,000 - 1:500,000 reconnaissance soil landscape mapping - Map units delineated rapidly in GIS using radiometric imagery for the western floodplains with limited soil profile collection, field observation and limited soil testing was undertaken for the major soils types across the area (soil pH, electrical conductivity, emerson aggregate, coarse gravel, moisture content).

Limitations on public access

Scope	dataset

DQ Completeness Commission

Effective date	2018-03-14
Explanation	All polygons in the GIS layer are labeled with a unique soil landscape MasterCode (Code) and MasterName (Name), Dominant Geomorphic process group (Process_D) and subdominant geomorphic process group (Process_SD). Pdf report are available for each map unit. Water polygons have been removed from the GIS layer. Field, technical and general editing has occurred on this dataset.

DQ Conceptual Consistency

Effective date	2010-06-01
Explanation	Map unit concepts and polygons, major soil types and soil landscape descriptions have been field verified by a peer soil scientist. Soil landscape boundaries have been checked and refined using iterative field and aerial photo checks.

DQ Topological Consistency

Effective date	2010-06-01
Explanation	ArcGIS was used to ensure all polygons in the shape file are topologically correct. All polygons have a unique identifier.

DQ Absolute External Positional Accuracy

Effective date	2010-06-01
Explanation	The accuracy of this map coverage varies across the mapping area, depending on the scale that map polygon boundaries were created at. Soil boundaries using mapping published at 1:100,000 scale are generally accurate to within 100m. Soil boundaries using SCRA reconnaissance level soil landscape mapping are generally accurate to within 250m and between 100-250m for the new updated reconnaissance mapping on Rosewood and Yarrangobilly 1:100,000 map sheets. Reconnaissance 1:250,000 Riverina mapping are accurate to within 250-500m. Observations and soil profiles were located using handheld GPS (accurate to 50m) or using 1:25 000 topographic maps.

DQ Non Quantitative Attribute Correctness

Effective date	2010-06-01
Explanation	Soil landscape map units are individualised by unique combinations of soil type, topography, geology, geomorphic process containing variations in vegetation, land use, existing erosion/land degradation and constraints to development. The land and soil attributes in this product were predominately assessed using field observations, remote sensing interpretation (satellite, radiometric and aerial photos) and laboratory analysis of some dominant soil type profiles.

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

Metadata point of contact

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Metadata date

2024-02-26T13:33:27.514628

Metadata language