Title	Soil and land constraint assessment maps: Hawkesbury Nepean Catchment
Abstract	This dataset contains maps and data on soil and land constraints that may impact on a range of land uses throughout the Hawkesbury Nepean Catchment. It reveals the physical capability of the land for different land uses, together with a broad indication of potential economic costs associated with overcoming the constraints. It should assist in many planning and natural resource management processes throughout the catchment. Land uses dealt with include: development – standard residential, medium density, high density and rural residential agriculture – cropping and grazing wastewater disposal – surface irrigation, trench absorption and pump-out methods. Background information and methodology is provided in the accompanying Technical Report DECCW (2010) Soil and land constraint assessment for urban and regional planning.
Resource locato	r
Data Quality	Name: Data Quality Statement
<u>Statement</u>	Protocol: WWW:DOWNLOAD-1.0-httpdownload
	Description:
	Data quality statement for Soil and land constraint assessment maps: Hawkesbury Nepean Catchment
	Function: download
<u>GIS maps: soil</u>	Name: GIS maps: soil and land constraint assessment
and land constraint	Protocol: WWW:DOWNLOAD-1.0-httpdownload
assessment	Description:
	GIS constraint maps of 9 land uses and management processes over Hawkesbury Nepean Catchment (25 m raster)
	Function: download
PDF maps: soil	Name: PDF maps: soil and land constraint assessment
and land constraint	Protocol: WWW:DOWNLOAD-1.0-httpdownload
assessment	Description:
	PDF copies of the maps for 9 land uses and management processes over the catchment
	Function: download
<u>Technical Report:</u> DECCW (2010),	Name: Technical Report: DECCW (2010), Soil and land constraint assessment for urban and regional planning
Soil and land constraint	Protocol: WWW:DOWNLOAD-1.0-httpdownload
assessment for urban and	Description:
<u>regional planning</u>	Technical report describing the background, methodology, use and interpretation of the constraint assessment process
	Function: download
Notes on map interpretation and other related publications	Name: Notes on map interpretation and other related publications
	Protocol: WWW:DOWNLOAD-1.0-httpdownload
	Description:
	(i) interpretation notes; (ii) Australian Planner journal paper (2011); (iii) conference paper for domestic wastewater disposal
	Function: download
Unique resource	eidentifier
Code	8b7ac8f7-56c0-4ae0-8f43-603321b00ce6

Presentation form	Map digital	
Edition	1	
Dataset language	English	
Metadata standard		
Name	ISO 19115	
Edition	2016	
Dataset URI	<u>https://www.planningportal.nsw.gov.au/opendata/dataset/8b7ac8f7-56c0-4ae0-8f43-</u> <u>603321b00ce6</u>	
Purpose	Assist Local Councils and regional planning bodies in urban and regional planning in Hawkesbury-Nepean Catchment, including western Sydney	
Status	Completed	
Spatial representation type	grid	
Spatial reference system		
Code identifying the spatial reference system	4283	
Spatial resolution	25 m	
Topic category	planningCadastre	

Keyword set	
keyword value	SOIL
	LAND
	LAND-Use
	HUMAN-ENVIRONMENT-Planning
Originating controlled vocabulary	
Title	ANZLIC Search Words
Reference date	2008-05-16
Geographic location	
NSW Place Name	Hawkesbury Nepean Catchment
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	2000-01-01
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
Full postal address	NSW
	Australia
	data.broker@environment.nsw.gov.au
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	Concepts and methodology of the product are presented in DECCW (2010) and Gray et al (2011). The product builds on the soil landscape data contained in Soil and Land Resources of the Hawkesbury Nepean Catchment (DECCW 2009). This contains descriptions of all soil-landscape units in the Catchment, including details on their qualities and constraints, derived from mapping programs predominantly carried out at 1:25 000 scale but published at 1:100 000 scale.		
	Spatial modelling of the soil-landscape units down to facet level was achieved using GIS techniques with a 25 m digital elevation model (DEM) as described in Yang et al (2008). Erosion hazard mapping using methodology described in Yang et al. (2006) was also applied.		
	References Department of Environment and Climate Change, 2009, Soil and Land Resources of the Hawkesbury-Nepean Catchment interactive DVD, Department of Environment and Climate Change NSW, Sydney. <u>https://datasets.seed.nsw.gov.au/dataset/soil-and-land-resources-of-the-hawkesbury- nepean-catchment2bef0</u> DECCW 2010. Constraint Assessment for Urban and Regional Planning, DECCW Technical Report, prepared by JM Gray, GA Chapman, X Yang, M Young, NSW Department of Environment, Climate Change and Water, Sydney. Gray JM, Chapman GA, Yang X, Young M, 2011. Constraint Assessment for Urban and Regional Planning, Australian Planner, 48:1, 12-23 Yang, X, Chapman, GA, Gray, JM. and Young, MA (2007). Delineating soil-landscape facets from digital elevation models using compound topographic index and terrain analysis. Australian Journal of Soil Research, 45(8):569–576. Yang, X, Chapman, G and Heemstra, S 2006, Estimating soil erosion hazard for NSW coastal catchments using RUSLE in a GIS environment, in 10th Annual SIA Conference on Urban Stormwater Management, Parramatta, 27–30 June 2006		
Constraint set			
Use constraints	This data is provided under a Creative Commons Attribution 4.0 licence <u>http://creativecommons.org/licenses/by/4.0</u> . Attribute 'NSW Department of Climate Change, Energy, the Environment and Water' in publications using this data.		
Limitations on public access			
Scope	dataset		
DQ Topologic	cal Consistency		
Effective date	2011-06-01		
Explanation	The polygons of the original soil landscape products had been checked with GIS methods		
DQ Absolute	External Positional Accuracy		
Effective date	2011-06-01		
Explanation	Observations and soil profiles used for original soil mapping were located using handheld GPS (accurate to 50m) or using 1:25,000 topographic maps. Soil boundaries on this 1:100,000 scale map is generally accurate to within 100m on the ground but variations will occur especially where soil boundaries are gradual. Extensive field checking of soil landscape boundaries had been undertaken prior to finalising the original mapping.		
DQ Non Quar	DQ Non Quantitative Attribute Correctness		
Effective date	2011-06-01		
Explanation	The land and soil constraints in the original soil-landscape map products were predominately assessed using field observations, remote sensing interpretation (satellite, radiometric and aerial photos) and laboratory analysis of dominant soil materials. Further checking of representative facet boundaries and final constraint results was undertaken prior to finalisation of the product		

Responsible party		
Contact position	Data Broker	
Organisation name	NSW Department of Climate Change, Energy, the Environment and Water	
Full postal address	NSW	
	Australia	
	data.broker@environment.nsw.gov.au	
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		
Contact position	Data Broker	
Organisation name	NSW Department of Climate Change, Energy, the Environment and Water	
Full postal address	NSW	
	Australia	
	data.broker@environment.nsw.gov.au	
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 date	2024-02-26T13:55:28.537587	

Metadata language