

Title	Macleay River Floodplain Prioritisation Study
Abstract	The Coastal Floodplain Prioritisation Study covered seven estuaries on the NSW floodplain. The study included an extensive data collection and collation process to improve understanding of the processes and areas that contribute to poor water quality and improve overall floodplain management. The data delivered here includes information on floodplain drainage infrastructure, soil stratigraphy and hydraulic conductivity, sea level rise vulnerability and drain cross sections. The final outcomes of the prioritisation for the Macleay River floodplain with respect to acid and blackwater generation is also provided.
Resource locator	
Macleay River Floodplain Prioritisation Study Data Quality Statement	Name: Macleay River Floodplain Prioritisation Study Data Quality Statement Protocol: WWW:DOWNLOAD-1.0-http--download Description: Data Quality Statement for the Macleay River Floodplain Prioritisation Study Function: download
Macleay River Floodplain Prioritisation Study	Name: Macleay River Floodplain Prioritisation Study Protocol: WWW:DOWNLOAD-1.0-http--download Description: File contains: .shp, .mxd, .mpk, .pdf Function: download
Unique resource identifier	
Code	6d741cad-bbd6-4c57-a299-0e48e7b6156a
Presentation form	Model digital
Dataset language	English
Metadata standard	
Name	ISO 19115
Edition	2016
Dataset URI	https://datasets.seed.nsw.gov.au/dataset/6d741cad-bbd6-4c57-a299-0e48e7b6156a
Purpose	The aims of the study were to develop and apply multi-criteria prioritisation methodologies to rank drainage subcatchments within NSW coastal floodplains by their contribution to acid and blackwater generation and discharge, to determine the subsequent risks to the estuarine waterways, and to guide the future management of coastal floodplains. The purpose of this prioritisation is to establish an evidence-based list of high priority subcatchments to be targeted for on-ground management actions or remediation. The Macleay River Floodplain Prioritisation Study was the application of the method on the Macleay River.
Status	Completed
Spatial representation	
Type	vector
Spatial reference system	
Code	

<div> <div>identifying the spatial reference system</div> <div>4283</div> </div>	
Topic category	
Keyword set	
keyword value	<div>ECOLOGY-Landscape</div> <div>Biophysical</div> <div>SOIL-Chemistry</div> <div>HAZARDS</div> <div>Water</div> <div>WATER-Hydrochemistry</div> <div>WATER-Hydrology</div> <div>WATER-Quality</div> <div>WATER-Surface</div> <div>MARINE</div> <div>MARINE-Coasts</div> <div>MARINE-Estuaries</div> <div>MARINE-Human-Impacts</div> <div>CLIMATE-AND-WEATHER-Climate-change</div> <div>CLIMATE-AND-WEATHER-Extreme-weather-events</div> <div>HAZARDS-Flood</div> <div>HAZARDS-Severe-local-storms</div> <div>GEOSCIENCES-Hydrogeology</div> <div>HUMAN-ENVIRONMENT-Planning</div>
Originating controlled vocabulary	
Title	ANZLIC Search Words
Reference date	2008-05-16
Geographic location	
West bounding longitude	152.72519
East bounding longitude	153.04798
North bounding latitude	-31.18202
South bounding latitude	-30.78733
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	
End position	N/A
Dataset reference date	
Resource maintenance	
Maintenance and update frequency	Not planned
Contact info	
Contact position	Data Broker
Organisation name	Department of Primary Industries and Regional Development (DPIRD)
Responsible party role	pointOfContact
<p>Lineage</p> <p>Tucker, T. A., Rayner, D. S., Harrison, A. J., Lumiatti, G., Rahman, P. F., Gilbert, D. & Glamore, W. 2023. Macleay River Floodplain Prioritisation Study WRL TR2020/07. Water Research Laboratory, University of New South Wales. Rayner, D. S., Harrison, A. J., Tucker, T. A., Lumiatti, G., Rahman, P. F., Waddington, K., Juma, D. & Glamore, W. 2023. Coastal Floodplain Prioritisation Study – Background and Methodology WRL TR2020/32. Water Research Laboratory, University of New South Wales.</p> <p>Parent data sources include: Geoscience Australia 5 m DEM derived from lidar DPIE. 2020. eSpade NSW Soil and Land Informatin [Online]. Available: https://www.environment.nsw.gov.au/eSpade2WebApp [Accessed 2019]. Smith, J. V. S. 2005. Inorganic hydrogeochemistry, hydrogeology and geology of the Stuarts Point aquifer system: A process analysis of the natural occurrences of enriched As(III) and As(V) in an Australian coastal groundwater system. Doctor of Philosophy, University of New South Wales. Edeson, G., McAllistar, J., Yates, G., Wielinga, B., San Tan, S. & Bennett, A. 2004. Affect of Ponding on Acid Sulphate Soils at Clybucca, Kempsey NSW. Rayner, D. S., Tucker, T. A. & Glamore, W. C. 2020. Clybucca Wetlands Management Options Study. WRL Technical Report 2018/32. Manly Vale, NSW: Water Research Laboratory, University of New South Wales. Hirst, P., Slavich, P., Johnston, S. & Walsh, S. 2009. Assessment of hydraulic conductivity in coastal floodplain acid sulfate soils on the north coast of NSW. Industry & Investment NSW. White, L., Melville, M. D., Wilsor, B. P., Price, C. B. & Willett, L. Understanding acid sulphate soils in canelands. Proceedings of the National Conference on Acid Sulphate Soils, 1993 Coolongatta, Queensland. CSIRO, NSW Agriculture, Tweed Shire Council, Australia, 130-148.</p>	
Limitations on public access	
Responsible party	
Contact position	Data Broker
Organisation name	Department of Primary Industries and Regional Development (DPIRD)
Responsible party role	pointOfContact
Metadata point of contact	
Contact position	Data Broker
Organisation name	Department of Primary Industries and Regional Development (DPIRD)
Responsible party role	pointOfContact
Metadata date	2023-10-31T05:35:53.153737
Metadata language	