

Title	High Ecological Value Waterways and Water Dependent Ecosystems - NORTHERN BEACHES LGA
Alternative title(s)	HEVwater NORTHERN BEACHES LGA
Abstract	<p>A map of the high ecological value waterways and water dependent ecosystems for the Northern Beaches LGA was prepared by the Science Division of the Department of Planning, Industry and Environment and the Northern Beaches Council, with input layers and support for the map provided by the former NSW Department of Primary Industries-Fisheries and Department of Industry-Crown Lands and Water. The basis for the map arises from Science Division inputs to strategic planning processes. For example, the map has been included in the Land Use and Infrastructure Implementation Plans for the Wilton (Wilton2040, page 22) and Greater Macarthur (interim plan, page 36) Priority Growth Areas. This map was specifically developed for input to Local Government Local Strategic Planning Statements to support Council's delivery of Strategy 25.1 of the Greater Sydney Region Plan. The map shows areas where waterways and water dependent ecosystems are defined as high ecological value, based on definitions, guidelines and policies under the Environment Protection and Biodiversity Conservation Act 1999, Biodiversity Conservation Act 2016, Fisheries Management Act 1994, Water Management Act 2000, Manly Local Environmental Plan 2013 and the Warringah Development Control Plan 2011. Water dependent ecosystems are defined as wetlands, and flora and fauna that rely on water sources (including groundwater). The map represents an overlay of 39 indicators being used by the State Government to define high value, however, not all 39 indicators will be present in any one LGA. For example, there are 36 indicators making up the map for the Northern Beaches LGA (see Attachment 1 below). A comprehensive field assessment was undertaken to assess the accuracy of the map. This showed that areas identified as high ecological value were accurate to 94%. It should be noted that the individual indicators have not been ground-truthed and it is recommended that field assessments and/or a comparison to local mapping be undertaken prior to any decisions being made. The map was created by initially placing a 1 ha (to correspond with a lot size) hexagon grid over the LGA, and attributing the grid with the area, length and/or frequency of occurrence of high value water dependent ecosystems. The purpose of the map is to identify strategic planning priorities for protecting and improving the health of high value waterways and water dependent ecosystems in the LGA. Once identified, the priorities can be used as a basis for identifying aquatic biodiversity refugia, stream rehabilitation efforts and setting management targets and/or land use planning controls that would protect or improve the health of waterways and water dependent ecosystems so they provide the essential services and functions expected of a cool blue-green corridor.</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>Data quality statement for High Ecological Value Waterways and Water Dependent Ecosystems - NORTHERN BEACHES LGA</p> <p>Function: download</p>
HEVwater NORTHERN BEACHES LGA	<p>Name: HEVwater NORTHERN BEACHES LGA</p> <p>Protocol: WWW:DOWNLOAD-1.0-http--download</p> <p>Description:</p> <p>This file contains ESRI format shapefile and jpg coverage map output.</p> <p>Function: download</p>
HEV NORTHERN BEACHES LGA map	<p>Name: HEV NORTHERN BEACHES LGA map</p> <p>Protocol: WWW:DOWNLOAD-1.0-http--download</p> <p>Description:</p> <p>This file presents the HEVwater coverage within the Local Government Area.</p> <p>Function: download</p>

Unique resource identifier

Code eeb2d6e4-8301-496e-8b00-efd85ce9771f

Presentation form mapDigital

Edition 1

Dataset language eng

Metadata standard

Name ANZLIC Metadata Profile: An Australian/New Zealand Profile of AS/NZS ISO 19115:2005, Geographic information - Metadata

Version 1.1

Dataset URI <https://datasets.seed.nsw.gov.au/dataset/eeb2d6e4-8301-496e-8b00-efd85ce9771f>

Purpose Local Government Local Strategic Planning Statements

Status completed

Spatial representation

Type vector

Spatial reference system

Authority code GDA94 / MGAZone 56

Code identifying the spatial reference system 28356

Spatial resolution 100 m

Topic category

Keyword set

keyword value

WATER

WATER-Wetlands

WATER-Hydrology

WATER-Groundwater

MARINE-Coasts

MARINE-Estuaries

Originating controlled vocabulary	
Title	ANZLIC Search Words
Reference date	2008-05-16
Geographic location	
West bounding longitude	151.16058
East bounding longitude	151.3439
North bounding latitude	-33.82387
South bounding latitude	-33.57176
NSW Place Name	NORTHERN BEACHES LGA
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	2019-07-26
End position	N/A
Dataset reference date	
Date type	publication
Effective date	2019-12-18
Resource maintenance	
Maintenance and update frequency	None
Contact info	
Organisation name	NSW Department of Climate Change, Energy, the Environment and Water
Full postal address	NSW Australia data.broker@environment.nsw.gov.au
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Responsible party role	pointOfContact
Lineage	
Original lineage source data has been utilised in the preparation of the HEVwater Integrated layers for each of the LGAs within the Greater Sydney Region. Details of lineage can be found at:	

FCOM: Department of Primary Industries (DPI), Fisheries • https://webmap.industry.nsw.gov.au/Html5Viewer/index.html?viewer=Fisheries_Data_Portal (May 2019) • Riches, M., Gilligan, D., Danaher, K. and Pursey, J. (2016) Fish Communities and Threatened Species Distributions of NSW. Published by the Department of Primary Industries. https://www.dpi.nsw.gov.au/_data/assets/pdf_file/0007/669589/fish-communities-and-threatened-species-distributions-of-nsw.pdf

Available from SEED

Estuaries: • <https://datasets.seed.nsw.gov.au/dataset/estuaries12439> (SEED) Hydro Area: • <https://sdi.nsw.gov.au/catalog/search/resource/details.page?uuid=%7BEC757E51-AE90-4438-9B07-ACA9012386B5%7D> (Metadata) National Parks and Wildlife Estate: • <https://datasets.seed.nsw.gov.au/dataset/nsw-national-parks-and-wildlife-service-npws-estate3f9e7> (SEED) Crown Reserve Estate: • For more information: <https://www.industry.nsw.gov.au/lands/what-we-do> (Department of Industry) Declared Wilderness: • <https://datasets.seed.nsw.gov.au/dataset/nsw-declared-wilderness39b> (SEED) EPI - Drinking Water Catchments: • <https://datasets.seed.nsw.gov.au/dataset/epi-drinking-water-catchment> (SEED) National Heritage List • <https://datasets.seed.nsw.gov.au/dataset/national-heritage-list> (SEED) • For more information about Strahler Order: https://www.industry.nsw.gov.au/_data/assets/pdf_file/0020/172091/Determining-Strahler-stream-order-fact-sheet.pdf (Fact Sheet) The Australian Government Bioregional Assessment Programme (Department of the Environment and Energy, the Bureau of Meteorology, CSIRO and Geoscience Australia) River Styles • <https://data.gov.au/data/dataset/06fb694b-d2f1-4338-ab65-a707c02f11d7>

The Australian Government Bioregional Assessment Programme (Department of the Environment and Energy, the Bureau of Meteorology, CSIRO and Geoscience Australia) River Styles • <https://data.gov.au/data/dataset/06fb694b-d2f1-4338-ab65-a707c02f11d7>

Available from SEED Strahler Stream Order • For more information about Strahler Order: https://www.industry.nsw.gov.au/_data/assets/pdf_file/0020/172091/Determining-Strahler-stream-order-fact-sheet.pdf (Fact Sheet)

Department of Primary Industries River Condition Index (RCI) • For more information about RCI: <https://www.industry.nsw.gov.au/water/science/surface-water/monitoring/river-health/river-condition-index>

Available from SEED Ramsar wetlands of NSW • <https://datasets.seed.nsw.gov.au/dataset/ramsar-wetlands-of-nsw0c113> (SEED)

Available from SEED Estuaries (including macrophyte detail) • <https://datasets.seed.nsw.gov.au/dataset/estuaries-including-macrophyte-detail5ebff> (SEED) Department of Primary Industries https://webmap.industry.nsw.gov.au/Html5Viewer/index.html?viewer=Fisheries_Data_Portal

Australian Government, Department of the Environment and Energy Directory of Important Wetlands in Australia (DIWA) • <https://datasets.seed.nsw.gov.au/dataset/directory-of-important-wetlands-in-australia> (SEED)

Department of Primary Industries (DPI), Fisheries • https://webmap.industry.nsw.gov.au/Html5Viewer/index.html?viewer=Fisheries_Data_Portal (May 2019) Aquaculture Leases • For more information <http://www.dpi.nsw.gov.au/content/fisheries/aquaculture/publications/industry-directory> Sustainable oyster aquaculture sites • For more information: <https://www.dpi.nsw.gov.au/fishing/aquaculture/publications/oysters/industry-strategy>

NSW Marine Protected Areas • <https://datasets.seed.nsw.gov.au/dataset/nsw-marine-protected-areas> (SEED) • For more information <https://www.dpi.nsw.gov.au/fishing/habitat/protecting-habitats/mpa>

Bureau of Metrology GDE Surface Expression of Groundwater • For more information about Groundwater Dependent Ecosystems Atlas: <http://www.bom.gov.au/water/groundwater/gde/>

Bureau of Metrology GDE Subsurface Presence of Groundwater • For more information about Groundwater Dependent Ecosystems Atlas: <http://www.bom.gov.au/water/groundwater/gde/>

Available from SEED NSW Bionet Species Sighting Data Collection • <https://datasets.seed.nsw.gov.au/dataset/nsw-bionet-species-sightings-data-collection8a9c4> (SEED) For more information about BioNet: <http://www.bionet.nsw.gov.au/>

Available from SEED NSW Bionet Species Sighting Data Collection • <https://datasets.seed.nsw.gov.au/dataset/nsw-bionet-species-sightings-data-collection8a9c4> (SEED) For more information about BioNet: <http://www.bionet.nsw.gov.au/>

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Department of Primary Industries - Fisheries
https://webmap.industry.nsw.gov.au/Html5Viewer/index.html?viewer=Fisheries_Data_Portal
 (May 2019) For more information: NSW Department of Primary Industries (2015), NSW Fish Community Status 2015 - Final Report Department of Primary Industries - Fisheries See above. Department of Primary Industries - Fisheries See above. Department of Primary Industries - Fisheries See above. Department of Primary Industries - Fisheries See above. Department of Primary Industries - Fisheries See above. Local Environment Plan zones - Riparian Lands Watercourses •
<https://datasets.seed.nsw.gov.au/dataset/epi-riparian-lands-watercourses> (SEED)

Available from SEED Local Environment Plan zones - Vulnerable Lands Protected Riparian
<https://datasets.seed.nsw.gov.au/dataset/vulnerable-land-protected-riparian73a9e> (SEED)

SEPP Coastal management - Coastal Wetlands
<https://datasets.seed.nsw.gov.au/dataset/coastal-management-sepp-coastal-wetlands>
 (SEED)

Available from SEED State Environmental Planning Policy - Littoral Rainforests
<https://datasets.seed.nsw.gov.au/dataset/sepp-coastal-management-littoral-rainforest>
 (SEED)

Available from SEED Critical Habitat <https://datasets.seed.nsw.gov.au/dataset/1af6b157-7266-4bf2-b066-1b7ff1405859> (SEED)

HSC_Vegetation_ELA_2018 (Hornsby)

Available from SEED The Native Vegetation of the Sydney Metropolitan Area - version 3.1, 2016 (VIS 4489)

- <https://datasets.seed.nsw.gov.au/dataset/the-native-vegetation-of-the-sydney-metropolitan-area-oeh-2016-vis-id-4489>

Remnant Vegetation of the western Cumberland subregion, 2013 (VIS 4207)

- https://datasets.seed.nsw.gov.au/dataset/remnant-vegetation-of-the-western-cumberland-subregion-2013-update-vis_id-4207fd1f4

Greater Hunter Native Vegetation Mapping v4.0, 2012 (VIS 3855)

- <https://datasets.seed.nsw.gov.au/dataset/greater-hunter-native-vegetation-mapping-v4-0-vis-id-3855d41f5>

Draft vegetation map, South Eastern Wollemi National Park, 2010 (VIS 4184)

- https://datasets.seed.nsw.gov.au/dataset/draft-vegetation-map-south-eastern-wollemi-national-park-2010-vis_id-41841340c

Southeast NSW Native Vegetation Classification and Mapping, 2010 (VIS 2230)

- https://datasets.seed.nsw.gov.au/dataset/southeast-nsw-native-vegetation-classification-and-mapping-scivi-vis_id-223006f8a

Vegetation, Northern Hawkesbury LGA (Draft), 2008 (VIS 4167)

- https://datasets.seed.nsw.gov.au/dataset/vegetation-northern-hawkesbury-lga-draft-2008-vis_id-41672ab39

The Native Vegetation of Yengo and Parr reserves and surrounds, 2008 (VIS 3845)

- https://datasets.seed.nsw.gov.au/dataset/the-native-vegetation-of-yengo-and-parr-reserves-and-surrounds-2008-vis_id-38450d109

Hawkesbury City Council Vegetation Mapping, 2007 (VIS 3958)

- https://datasets.seed.nsw.gov.au/dataset/hawkesbury-city-council-vegetation-mapping-2007-vis_id-3958c2c4b

Vegetation survey of Muogamarra Nature Reserve, 1991 (VIS 2322)

- https://datasets.seed.nsw.gov.au/dataset/vegetation-survey-of-muogamarra-nature-reserve-vis_id-2322404a8

see WDVEG

Limitations on public access

Scope

dataset

Responsible party

Contact position	Data Broker
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Responsible party role	pointOfContact

Metadata point of contact

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Responsible party role	distributor

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