Title	Groundwater Productivity in NSW - 2013

Abstract

This map was created by the Department of Primary Industries (Office of Water) in 2013 to identify areas in NSW with highly productive groundwater. Mapping identifies two classes of productivity, highly productive and less productive. Highly productive groundwater areas are characterised by bores having yield rates greater than 5 litre/second and total dissolved solids of less than 1,500 mg/litre. It also excludes miscellaneous alluvial aquifers called small storage aquifers.

This mapped areas of highly productive groundwater along with two other datasets (rainfall of 350mm for more per annum - 9 out of 10 years and reliable surface water) are used to identify land with access to a reliable water supply, forming part of the regional and site level assessment classification of Biophysical Strategic Agricultural Land (BSAL).

Under the Mining SEPP, all State Significant Development applications require a Site Verification Certificate to determine if their site contains any BSAL and therefore requiring further assessment from the Mining and Petroleum Gateway Panel. This process is managed by Planning and Assessment, Department of Planning, Industry and Environment and are custodian of this dataset.

A pdf map and GIS shapefile of this dataset is accessible from the resources section of the metadata.

Resource locator

Data Quality Statement	Name: Data Quality Statement Protocol: WWW:DOWNLOAD-1.0-http--download Description: Data quality statement for Groundwater Productivity in NSW - 2013 Function: download
NSW Groundwater Productivity map	Name: NSW Groundwater Productivity map Protocol: WWW:DOWNLOAD-1.0-http--download Description: PDF map of Groundwater Productivity in NSW - June 2013 Function: download
GIS map Package	Name: GIS map Package Protocol: WWW:DOWNLOAD-1.0-http--download Description: Download Groundwater Productivity of NSW GIS shapefile Function: download

Unique resource identifier

Code	6f1cb959-e18d-419f-8339-fe640dbe731e

Presentation form	Map digital
Edition	1.0
Dataset language	English

Metadata standard

Name	ISO 19115 2016

Edition	
Dataset URI	https://www.planningportal.nsw.gov.au/opendata/dataset/6f1cb959-e18d-419f-8339-fe640dbe731e
Purpose	One intended purpose is to be used as part of the Site Verification Certificate (SVC) process to determine if land contains Biophysical Strategic Agricultural Land.
Status	Completed

Spatial representation

Type	vector
Geometric Object Type	surface

Spatial reference system

Code identifying the spatial reference system	4283

Spatial resolution	0 m

Additional information source

GIS attribute fields

- Catchment - Water catchment that the groundwater area
- WtrShrPln1 - Water sharing plan (WSP) of first aquifer described
- W_Source_1 - Location of groundwater source of first aquifer described
- Mgt_Zone_1 - Management zone of first aquifer described
- GW_Catgry1 - Category of first groundwater aquifer described (ie. fractured rock or alluvial)
- Prductvty1 - Productivity of first groundwater area (highly or less) described
- WtrShrPln2 - Water sharing plan (WSP) of second aquifer described (if applicable)
- W_Source_2 - Location of groundwater source of second aquifer described (if applicable)
- Mgt_Zone_2 - Management zone of second aquifer described (if applicable)
- GW_Catgry2 - Category of second groundwater aquifer described (if applicable). (ie. fractured rock or alluvial)
- Prductvty2 - Productivity of second groundwater area (highly or less) described (if applicable).
- WtrShrPln3 - Water sharing plan (WSP) of third aquifer described (if applicable)
- W_Source_3 - Location of groundwater source of third aquifer described (if applicable)
- Mgt_Zone_3 - Management zone of third aquifer described (if applicable)
- GW_Catgry3 - Category of third groundwater aquifer described (if applicable). (ie. fractured rock or alluvial)
- Prductvty3 - Productivity of third groundwater area (highly or less) described (if applicable)
- WtrShrPln4 - Water sharing plan (WSP) of fouth aquifer described (if applicable)
- W_Source_4 - Location of groundwater source of fourth aquifer described (if applicable)
- Mgt_Zone_4 - Management zone of fourth aquifer described (if applicable)
- GW_Catgry4 - Category of fourth groundwater aquifer described (if applicable). (ie. fractured rock or alluvial)
- Prductvty4 - Productivity of fourth groundwater area (highly or less) described (if applicable)
- WtrShrPln5 - Water sharing plan (WSP) of fifth aquifer described (if applicable)
- W_Source_5 - Location of groundwater source of fifth aquifer described (if applicable)
- Mgt_Zone_5 - Management zone of fifth aquifer described (if applicable)
- GW_Catgry5 - Category of third groundwater aquifer described (if applicable). (ie. fractured rock or alluvial)
- Prductvty5 - Productivity of fifth groundwater area (highly or less) described (if applicable)

Topic category	environment

Keyword set

keyword value	WATER-Groundwater WATER-Quality
Originating controlled vocabulary	
Title	ANZLIC Search Words
Reference date	2008-05-16

Geographic location

NSW Place Name	New South Wales

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	2013-01-01
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

This map was derived by collating multiple sources of aquifer information, identifying areas of their location, and other associated details including water sharing plan names, their source, management zones, groundwater type/category and groundwater productivity. Up to 5 different aquifers were assessed within any delineated groundwater map area.

Of importance for this map, is the identification of groundwater productivity (attributed as either highly or less). If any of the aquifers are identified as highly productive then it is considered highly productive overall in the productivity map, even if other groundwater areas (like at a different depth) are classed less productive and occur elsewhere within the same mapped groundwater polygon area.

The assessment of this groundwater productivity map was undertaken in 2013.

Constraint set

Use constraints

Limitations on public access

Scope dataset

DQ Completeness Commission

Effective date	2021-04-14
Explanation	Groundwater productivity was assessed for all areas in NSW. The area within the Australian Capital Territory contains no groundwater information but mapped identifying its catchment only.

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

2024-02-26T13:35:57.567849

Metadata language