

Title	Translucency Monitoring-Hypothesis 4-Murrumbidgee
Abstract	<p>Rocky riffles in rivers support a complex community of algae, bacteria, fungi and detritus often held together by a polysaccharide matrix. This biofilm provides food for invertebrates, some fish, platypus, rakali and turtles. Biofilms are scoured naturally by high flows. River regulation alters the timing, duration and frequency of biofilm scouring. Environmental flows downstream of dams, including translucent and transparent releases are designed to restore some of the variability of flow and allow scouring to reset early-stage biofilm, which is more palatable for aquatic animals.</p> <p>IMEF biofilm and invertebrate studies were performed in the Hunter and Murrumbidgee Rivers, testing the hypothesis (IMEF Hypothesis 4) that restoring some freshes and high flows would induce scouring of silt and biofilms and improved habitat quality for some invertebrate scrapers and their predators.</p> <p>Sites located on the Murrumbidgee River downstream of Burrinjuck Dam, received periodic environmental releases, between April and October, as well as irrigation flows and uncontrolled spills. Riffle rock biofilms, aquatic invertebrate metrics and water quality were compared with reference sites on the unregulated Goobarragandra and Goodradigbee rivers. Control sites were chosen on the Tumut River, which is regulated by Blowering Dam but unlike the Murrumbidgee River did not receive variable environmental releases.</p> <hr/> <p>Note: If you would like to ask a question, make any suggestions, or tell us how you are using this dataset, please visit the NSW Water Hub which has an online forum you can join.</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 Translucency Monitoring-Hypothesis 4-Murrumbidgee</p> <p>Function: download</p>
Metadata Statement - IMEF Hypothesis 4 Translucency Monitoring Periphyton and water quality	<p>Name: Metadata Statement - IMEF Hypothesis 4 Translucency Monitoring Periphyton and water quality</p> <p>Protocol: WWW:DOWNLOAD-1.0-http--download</p> <p>Description:</p> <p>Metadata Statement - IMEF Hypothesis 4 Translucency Monitoring Periphyton and water quality</p> <p>Function: download</p>
Murrumbidgee Hypothesis 4 sampling occasions 1999_2001	<p>Name: Murrumbidgee Hypothesis 4 sampling occasions 1999_2001</p> <p>Protocol: WWW:DOWNLOAD-1.0-http--download</p> <p>Description:</p> <p>Murrumbidgee Hypothesis 4 sampling occasions 1999_2001</p> <p>Function: download</p>
Murrumbidgee Hypothesis 4 ChIA_Organic matter 1999_2001	<p>Name: Murrumbidgee Hypothesis 4 ChIA_Organic matter 1999_2001</p> <p>Protocol: WWW:DOWNLOAD-1.0-http--download</p> <p>Description:</p> <p>Murrumbidgee Hypothesis 4 ChIA_Organic matter 1999_2001</p> <p>Function: download</p>
Murrumbidgee Hypothesis 4 Flow Metrics 1999_2001	<p>Name: Murrumbidgee Hypothesis 4 Flow Metrics 1999_2001</p> <p>Protocol: WWW:DOWNLOAD-1.0-http--download</p> <p>Description:</p>

Murrumbidgee Hypothesis 4 Invertebrates with flow metrics 1999 -2001 Murrumbidgee Hypothesis 4 Periphyton 1999-2001 Murrumbidgee Hypothesis 4 Periphyton taxa information 1999_2001 Murrumbidgee Hypothesis 4 site information 1999_2001 Murrumbidgee Hypothesis 4 Water Quality 1999_2001	Murrumbidgee Hypothesis 4 Flow Metrics 1999_2001 Function: download Name: Murrumbidgee Hypothesis 4 Invertebrates with flow metrics 1999 -2001 Protocol: WWW:DOWNLOAD-1.0-http--download Description: Murrumbidgee Hypothesis 4 Invertebrates with flow metrics 1999 -2001 Function: download Name: Murrumbidgee Hypothesis 4 Periphyton 1999-2001 Protocol: WWW:DOWNLOAD-1.0-http--download Description: Murrumbidgee Hypothesis 4 Periphyton 1999-2001 Function: download Name: Murrumbidgee Hypothesis 4 Periphyton taxa information 1999_2001 Protocol: WWW:DOWNLOAD-1.0-http--download Description: Murrumbidgee Hypothesis 4 Periphyton taxa information 1999_2001 Function: download Name: Murrumbidgee Hypothesis 4 site information 1999_2001 Protocol: WWW:DOWNLOAD-1.0-http--download Description: Murrumbidgee Hypothesis 4 site information 1999_2001 Function: download Name: Murrumbidgee Hypothesis 4 Water Quality 1999_2001 Protocol: WWW:DOWNLOAD-1.0-http--download Description: Murrumbidgee Hypothesis 4 Water Quality 1999_2001 Function: download
Unique resource identifier	
Code	c46ac5fb-e278-4fbb-9983-dea43fc431c3
Presentation form	Table digital
Edition	1.0
Dataset language	English
Metadata standard	
Name	ISO 19115
Edition	2016
Dataset URI	https://datasets.seed.nsw.gov.au/dataset/c46ac5fb-e278-4fbb-9983-dea43fc431c3

Purpose	To monitor the first environmental flow releases as part of the development of the NSW Water Sharing Plan development and monitoring		
Status	Historical archive		
Spatial representation type	None		
Spatial reference system			
Code identifying the spatial reference system	4283		
Topic category			

Keyword set	
keyword value	WATER-Quality FAUNA-Invertebrates
Originating controlled vocabulary	
Title	ANZLIC Search Words
Reference date	2008-05-16
Geographic location	
West bounding longitude	143.2
East bounding longitude	149.58
North bounding latitude	-36.55
South bounding latitude	-33.61
NSW Place Name	Murrumbidgee
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	1998-01-07
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
Limitations on public access	

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Responsible party role	pointOfContact
Metadata date	2024-06-19T05:37:34.376165
Metadata language	