Title **Bushfire Impact Water Quality**

Abstract

Water quality loggers were installed in seven NSW estuaries with bushfire impact in the surrounding catchment area in January 2020 - Bellinger River, Khappinghat Creek, Lake Conjola, Termeil Lake, Meroo Lake, Tuross River and Wonboyn River. These loggers will record the water quality response in each estuary over time with a range of phyico-chemical indicators, including; temperature, conductivity, salinity and dissolved oxygen, and in the Wonboyn River; pH, turbidity, chlorophyll-a and coloured dissolved organic matter. The data will be updated approximately monthly.

Resource locator

Data Quality Statement

Name: Data Quality Statement

Protocol: WWW:DOWNLOAD-1.0-http--download

Description:

Data quality statement for Bushfire impact water quality

Function: download

Lake Conjola **Water Quality** Time Series Jan - Feb 2020 Name: Lake Conjola Water Quality Time Series Jan - Feb 2020

Protocol: WWW:DOWNLOAD-1.0-http--download

Description:

Time series of conductivity, temperature and dissolved oxygen water quality data in

Lake Conjola.

Function: download

Meroo Lake Water Quality **Time Series** Jan - Feb 2020 Name: Meroo Lake Water Quality Time Series Jan - Feb 2020

Protocol: WWW:DOWNLOAD-1.0-http--download

Description:

Time series of conductivity, temperature and dissolved oxygen water quality data in

Meroo Lake.

Function: download

Termeil Lake **Water Quality Time Series** Jan - Feb 2020 Name: Termeil Lake Water Quality Time Series Jan - Feb 2020

Protocol: WWW:DOWNLOAD-1.0-http--download

Description:

Time series of conductivity, temperature and dissolved oxygen water quality data in

Termeil Lake.

Function: download

Tuross River Water Quality Time Series

Name: Tuross River Water Quality Time Series Jan - Feb 2020

Protocol: WWW:DOWNLOAD-1.0-http--download

Jan - Feb 2020 Description:

Timeseries of conductivity, temperature and dissolved oxygen water quality data in

Tuross River.

Function: download

Wonboyn River Multi-Probe **Water Quality Time Series** Jan - Feb 2020

Name: Wonboyn River Multi-Probe Water Quality Time Series Jan - Feb 2020

Protocol: WWW:DOWNLOAD-1.0-http--download

Description:

Time series of water quality data from the mid-estuarine area of the Wonboyn River. Data was collected using a Xylem EXO2 multi-sensor probe, logging at 15 minute intervals. Logger was deployed in January 2020, following extensive bushfire in the catchment area, and ahead of the artificial opening of the entrance channel. Logger

remains in place. Data will be updated once more is available.

Function: download

Bellinger River (SiteID BEL2) Water Quality Time Series Name: Bellinger River (SiteID BEL2) Water Quality Time Series

Protocol: WWW:DOWNLOAD-1.0-http--download

<u>ies</u> Description:

Time series of conductivity, temperature and dissolved oxygen water quality data in

the Bellinger River (SiteID BEL2).

Function: download

Bellinger River (SiteID BEL3) Water Quality Name: Bellinger River (SiteID BEL3) Water Quality Time Series

Protocol: WWW:DOWNLOAD-1.0-http--download

<u>Time Series</u> Description:

Time series of conductivity, temperature and dissolved oxygen water quality data in

the Bellinger River (SiteID BEL3).

Function: download

Bellinger River (SiteID BEL4) Water Quality Name: Bellinger River (SiteID BEL4) Water Quality Time Series

Protocol: WWW:DOWNLOAD-1.0-http--download

<u>Time Series</u> Description:

Time series of conductivity, temperature and dissolved oxygen water quality data in

the Bellinger River (SiteID BEL4)

Function: download

NSW DPIE Water Quality Data Logger Name: NSW DPIE Water Quality Data Logger Site Locations

Protocol: WWW:DOWNLOAD-1.0-http--download

<u>Site Locations</u> Description:

GPS coordinates of water quality loggers installed to monitor the water quality

response of bushfire impact in select NSW estuaries.

Function: download

Lake Conjola
Water Quality
Time Series

Name: Lake Conjola Water Quality Time Series Feb - Mar 2020

Protocol: WWW:DOWNLOAD-1.0-http--download

Feb - Mar 2020 Description:

Time series of water quality data in Lake Conjola, collected using water quality loggers installed in January 2020 following bushfire in the catchment. This is the updated data,

including data up to March 2020.

Function: download

Meroo Lake
Water Quality
Time Series

Name: Meroo Lake Water Quality Time Series Feb - Mar 2020

Protocol: WWW:DOWNLOAD-1.0-http--download

Feb - Mar 2020 Description:

Time series of water quality data in Meroo Lake , collected using water quality loggers installed in January 2020 following bushfire in the catchment. This is the updated data,

including data up to March 2020.

Function: download

Termeil Lake
Water Quality
Time Series
Feb. Mar 2020

Name: Termeil Lake Water Quality Time Series Feb - Mar 2020

Protocol: WWW:DOWNLOAD-1.0-http--download

Feb - Mar 2020 Description:

Time series of water quality data in Termeil Lake, collected using water quality loggers installed in January 2020 following bushfire in the catchment. This is the updated data,

including data up to March 2020.

Function: download

Tuross River Water Quality Time Series Feb - Mar 2020

Name: Tuross River Water Quality Time Series Feb - Mar 2020

Protocol: WWW:DOWNLOAD-1.0-http--download

Description:

Time series of water quality data in Tuross River, collected using water quality loggers installed in January 2020 following bushfire in the catchment. This is the updated data, including data up to March 2020.

Function: download

Wonboyn River Multi-Probe Water Quality Time Series Feb 2020 Name: Wonboyn River Multi-Probe Water Quality Time Series Feb 2020

Protocol: WWW:DOWNLOAD-1.0-http--download

Description:

Time series of water quality data from the upper estuarine area of the Wonboyn River. Data was collected using a Xylem EXO2 multi-sensor probe, logging at 10 minute intervals. Logger was deployed in early February 2020, following extensive bushfire in the catchment area, and ahead of the artificial opening of the entrance channel, and ahead of large rains forecast for the area. Logger remains in place. Data will be updated once more is available.

Function: download

Wonboyn River (SiteID WBN4-Bottom) Water Quality Time Series Feb

2020

Name: Wonboyn River (SiteID WBN4-Bottom) Water Quality Time Series Feb 2020

Protocol: WWW:DOWNLOAD-1.0-http--download

Description:

Time series of water quality data collected at the bottom of the water column (3.5m depth) at SiteID WBN4 in the Wonboyn River, collected using water quality loggers installed in February 2020 following bushfire in the catchment. This is the updated data, including data up to end of February 2020. See site ID coordinates sheet for exact location of site WBN4 in Wonboyn River.

Function: download

Wonboyn River (SiteID WBN3-Bottom) Water Quality Time Series Feb 2020 Name: Wonboyn River (SiteID WBN3-Bottom) Water Quality Time Series Feb 2020

Protocol: WWW:DOWNLOAD-1.0-http--download

Description:

Time series of water quality data collected at the bottom of the water column (4.0m depth) at SiteID WBN3 in the Wonboyn River, collected using water quality loggers installed in February 2020 following bushfire in the catchment. This is the updated data, including data up to end of February 2020. See site ID coordinates sheet for exact location of site WBN3 in Wonboyn River.

Function: download

Wonboyn River (SiteID WBN3-Surface) Water Quality Time Series Feb

2020

Name: Wonboyn River (SiteID WBN3-Surface) Water Quality Time Series Feb 2020

Protocol: WWW:DOWNLOAD-1.0-http--download

Description:

Time series of water quality data collected at the surface of the water column (0.5m depth) at SiteID WBN3 in the Wonboyn River, collected using water quality loggers installed in February 2020 following bushfire in the catchment. This is the updated data, including data up to end of February 2020. See site ID coordinates sheet for exact location of site WBN3 in Wonboyn River.

Function: download

Unique resource identifier

Code 0dacd012-88d7-4f65-bd29-4ae5dfe3bc3d

Presentation form

tableDigital

Edition	1	
Dataset language	eng	
Metadata stan	ndard	
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/0dacd012-88d7-4f65-bd29-4ae5dfe3bc3d	
Purpose	Research	
Status	onGoing	
Spatial represe	entation	
Туре	vector	
Spatial referer	nce system	
Authority code	GDA94 Geographic (Lat\Long)	
Code identifying the spatial reference system	4283	
Spatial resolution	10 m	
Additional information source	Temporal coverage varies between locations. Water quality loggers were installed on different dates in different locations. Bellinger River - September 2019 Khappinghat Creek - January 2020 Lake Conjola - January 2020 Termeil Lake - January 2020 Meroo Lake - January 2020 Tuross River - January 2020 Wonboyn River - January 2020	
Topic category	y	
Keyword set		
keyword value	WATER-Quality	
	WATER-Lakes	
	WATER-Rivers	
	WATER-Salinity	
	WATER-Surface	
Originating contro	olled vocabulary	
Title	ANZLIC Search Words	
Reference date	2008-05-16	
Geographic lo	cation	
West bounding lo	ngitude 149.80957	
East bounding lor	ngitude 153.457031	

North bounding latitude	-37.474858
South bounding latitude	-30.183122
Pertical 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	2020-01-01
End position	N/A
Dataset reference date	
Date type	publication
Effective date	2020-02-18
Date type	revision
Effective date	2020-03-20
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
Telephone number	131555
Email address	data.broker@environment.nsw.gov.au
Responsible party role	pointOfContact

Lineage

Different water quality loggers have been used in different locations. Bellinger River - HOBO U24-002-C Conductivity Logger, HOBO U26-001 DO Logger Khappinghat Creek - HOBO U24-002-C Conductivity Logger, HOBO U26-001 DO Logger Lake Conjola - HOBO U24-002-C Conductivity Logger, HOBO U26-001 DO Logger Termeil Lake - Odyssey Conductivity Logger, HOBO U26-001 DO Logger Meroo Lake - Odyssey Conductivity Logger, HOBO U26-001 DO Logger Tuross River - Odyssey Conductivity Logger, HOBO U26-001 DO Logger Wonboyn River - HOBO U24-002-C Conductivity Logger, HOBO U26-001 DO Logger, Xylem EXO2 Multi-Probe Water Quality Logger Data is logged at 15 minute intervals in Khappinghat Creek, Lake Conjola, Termeil Lake, Meroo Lake and Tuross River, at 10 minute intervals in Wonboyn River and at 1 hour intervals in Bellinger River. At time of logger download in the field, loggers are thoroughly cleaned, checked for drift using standards, and field calibrated if needed/where possible. Any malfunctioning loggers are returned to the laboratory and replaced. Data is cleaned following standard QAQC procedures before being made available. Location of loggers was recorded with Lowrance boat-based GPS.

Limitations on public access

Scope dataset

Responsible party

Contact position Data Broker

Organisation name NSW Department of Climate Change, Energy, the Environment and Water

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Web address https://www.nsw.gov.au/departments-and-agencies/dcceew

Responsible party role pointOfContact

Metadata point of contact

Contact position Data Broker

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Responsible party role distributor

Metadata date 2020-02-18

Metadata language eng