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

Show on SEED Web Map Name: Show on SEED Web Map

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

Description:

Display dataset on SEED's map

Function: download

<u>Data Quality</u> 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

lan - Feb 2020 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

Multi-Probe
Water Quality
Time Series

Jan - Feb 2020

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

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

Description:

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

<u>Water Quality</u>
<u>Time Series</u>
Feb - Mar 2020

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

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

Name: Tuross River 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 Tuross River, collected using water quality loggers installed in January 2020 following bushfire in the catchment. This is the updated data, including data was to March 2020.

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	Table digital	
Edition	1	
Dataset language	English	
Metadata standard		
Name	ISO 19115	
Edition	2016	
Dataset URI	https://datasets.seed.nsw.gov.au/dataset/0dacd012-88d7-4f65-bd29-4ae5dfe3bc3d	
Purpose	Research	
Status	On going	
Spatial representation		
Туре	vector	
Geometric Object Type	point	
Geometric Object Count	14	
Spatial reference system		
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		

Keyword set			
keyword value	WATER-Quality		
	WATER-Lakes		
	WATER-Rivers		
	WATER-Salinity		
	WATER-Surface		
Originating controlled vocabulary			
Title	ANZLIC Search Words		
Reference date	2008-05-16		
Geographic location			
West bounding longitude	149.80957		
East bounding longitude	153.457031		
North bounding latitude	-37.474858		
South bounding latitude	-30.183122		
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	2020-01-01		
End position	N/A		
Dataset reference date			
Resource maintenance			
Maintenance and update frequency	Continual		
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		

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 Wonboyn River - HOBO U24-002-C 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

DQ Completeness Omission

Effective date

2020-02-18

Explanation

Some fields have missing data. This is due to either; data is awaiting thorough checking and quality assurance before publishing, data does not meet QAQC standards, erroneous data has been collected and subsequently discarded, or data is not available for a given time period. Not all indicators are collected at all logger locations. Listed data fields in each site are the only possible indicators for that site.

Responsible party

Contact position Data Broker

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

Telephone number 131555

Email address <u>data.broker@environment.nsw.gov.au</u>

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

Telephone number 131555

Email address <u>data.broker@environment.nsw.gov.au</u>

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

Responsible party role pointOfContact

Metadata date 2024-02-26T14:17:51.323648

Metadata language