

Water Monitoring Information

Hydrology Archive Data Information Sheet



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1.0 Introduction

The Queensland Department of Regional Development, Manufacturing and Water (the Department) operates surfacewater monitoring networks under an approved Water Monitoring Business Framework and ISO 9001:2015 accredited Quality Management System. In accordance with the Water Monitoring Business Framework, information collected from gauging stations is primarily stream height, flow and volume. These data can be accessed as:

- Unverified telemetry data which can be viewed on the Department's Water Monitoring Information Portal. This information is routinely published in near- real time following automated screening for any significant inconsistencies:

Website <https://water-monitoring.information.qld.gov.au/>

- Validated historic streamflow data can also be downloaded from the Department's Water Monitoring Information Portal. This information is validated by qualified hydrographic staff and is quality coded accordingly. Validated historic data can also be obtained by formal request to the Department:

Email water.monitoring@dnrm.qld.gov.au

Post Water Monitoring and Reporting

Divisional Support

Department of Regional Development, Manufacturing and Water

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2.0 Validation

The Department endeavours to validate data as quickly as possible, while the performance indicator aims for data to be validated within 220 days. You may download current validated data periodically from the Open Data Portal.

With respect to use of data:

- Unvalidated data viewed on the Department's Water Monitoring Information Portal has not been rigorously assessed and the data is quality coded to identify this. Unvalidated data should be used with care as they may change after validation. These data should only be used by persons who are familiar with the characteristics of streamflow information.
- Validated data are data that has been assessed and is the best available quality at the time, however the data should always be interpreted taking into account the quality codes that have been applied.
- Hydrologic advice should be sought to assist with any data interpretation.

3.0 Content/ Resources

The Department supplies Time Series water monitoring data as compressed ZIP archives. The ZIP archives are:

FILE NAME	DESCRIPTION
RDMW_SDVR_OPEN.ZIP	Time Series Stage, Discharge, Volume, Rainfall for Open Gauging Stations
RDMW_SDVR_CLOSED.ZIP	Time Series Stage, Discharge, Volume, Rainfall for Closed Gauging Stations
RDMW_TSWQ_OPEN.ZIP	Time Series Water Quality for Open Gauging Stations
RDMW_TSWQ_CLOSED.ZIP	Time Series Water Quality Closed Gauging Stations
RDMW_RAIN.ZIP	Time Series Rainfall for Open and Closed Stations
RDMW_ART.ZIP	Time Series Artesian Equivalent Level for Open and Closed Stations
RDMW_SUBART.ZIP	Time Series Groundwater Level for Open and Closed Stations

4.0 Metadata and File Types

4.1 Metadata Files

FILE NAME	DESCRIPTION
Stream_Gauging_Station_Network_2019-20.PDF	Surface Water Monitoring Network Index
Groundwater_Network_2019-20.PDF	Groundwater Monitoring Network Index
Rainfall_Site_Network_2019-20.PDF	Rainfall index
Surface_Water_Ambient_Network_2019-20.PDF	Surface Water Quality Network Index
Stream_Gauging_Station_Network_2019-20.CSV	Spatial data for Stream Gauging Station Network
Groundwater_Network_2019-20.CSV	Spatial data for Groundwater Network
Rainfall_Site_Network_2019-20.CSV	Spatial data for Rainfall Site Network
Surface_Water_Ambient_Network_2019-20.CSV	Surface Water Quality Network
RDMW_DA_QUALITY.CSV	Quality Code Mapping
RDMW_WMIS-Resource_Catalogue.PDF	Hydrology Archive Resource Catalogue
RDMW_WMIS-Information_Sheet.PDF	Hydrology Archive Data Information Sheet (this document)

5.0 Index of individual data extracts

CSV Data File Type: [GS].[TYPE].CSV

[GS] Abbreviation for "Gauging Station", also referred to as a "Site".

[SS] Abbreviation for "Subartesian Station", also referred to as a "Site".

[AS] Abbreviation for "Artesian Station", also referred to as a "Site".

5.1 Point Hydrologic Data

PS	Point Stage (i.e. 'Gauge Height') as measured
PD	Point Discharge as stored *
SS	Point Stage (i.e. 'Subartesian Equivalent Water Level') as measured
AS	Point Stage (i.e. 'Artesian EPS (Equivalent Potentiometric Surface)') as measured
PR	Point Rainfall as measured

5.2 Periodic Hydrologic Extracts

(N.B. START/ END indicates the period to which each record refers)

DM	[GS] Daily Midnight Stage (min, max, mean), Discharge (min, max, mean), Volume (total), Rainfall (total), START
SM	[SS] Daily Midnight Water Level (min, max, mean), Rainfall (total), START
AM	[AS] Daily Midnight EPS (min, max, mean), Rainfall (total), START
D9	[GS] Daily 0900 Stage (min, max, mean), Discharge (min, max, mean), Volume (total), Rainfall (total), END
S9	[SS] Daily 0900 Water Level (min, max, mean), Rainfall (total), END
A9	[AS] Daily 0900 EPS (min, max, mean), Rainfall (total), END
DRM	Daily Midnight Rainfall (total), START
DR9	Daily 0900 Rainfall (total), END

5.3 Point Time Series Water Quality (TSWQ)

PWQ Point Water Quality- as measured EC, Temperature, pH, Turbidity, Instantaneous Stage and Discharge

5.4 Periodic Time Series Water Quality Extracts

DET Daily Midnight EC (min, max, mean), Temperature (min, max, mean), START

DPT Daily Midnight pH (min, max, mean), Temperature (min, max, mean), START

DTU Daily Midnight Turbidity (min, max, mean), START

6.0 Time Series Data Parameters, Units

Name	Description	Variable Number
Stage	m GHt (metres Gauge Height)	100.00
Discharge	m ³ /sec (cubic metres per second, aka 'cumecs')	140.00
Volume	ML (megalitres)	151.00
Rainfall	mm (millimetres)	10.00
Electrical Conductivity (EC)	µS/cm (micro Siemens per centimetre)	2010.00
Temperature	°C (degrees Celsius)	2080.00
pH	pH (pH units)	2100.00
Turbidity	NTU (Nephelometric Turbidity Units)	2030.00
Bore Water Level	m (metres)	110.00
Groundwater Elevation AHD	m (metres)	111.00
Artesian Equivalent Potentiometric Surface (EPS)	m (metres)	113.00
Artesian Equivalent Potentiometric Elevation AHD (EPS)	m (metres)	114.00

7.0 Copyright

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