Australian Government
Commonwealth Environmental Water Holder

FLOW Monitoring Evaluation Research

We acknowledge the First Nations peoples as the Traditional Owners and Custodians of the lands, waterways and skies of the Murray-Darling Basin. We respect their continuing connection to culture and Country, and we thank them for their knowledge and science and the values reflected in these data.

Flow-MER Lower Murray salt and nutrient export - CONCENTRATIONS

Dataset name	Flow-MER Lower-Murray salt and nutrient export (concentrations)
Dataset citation	CEWH Flow-MER (2023) Lower Murray River salt and nutrient export (concentrations), Flow-MER Program. Commonwealth Environmental Water Holder, Australian Government Department of Climate Change, Energy, the Environment and Water. Sourced from https://data.gov.au/data/dataset/flow-mer-lower-murray-salt-and-nutrient-export on [date-sourced].
Description	Water quality parameters expressed as concentrations as the total export from the Murray-Darling Basin contained within all water sources (total combined natural flows plus managed environmental water). Data are collected to calibrate transport models by the Lower-Murray Selected Area for as part of the Commonwealth Environmental Water Holder's (CEWH) Flow-MER program. Total daily concentrations for: • Salinity (practical salinity units) • Phosphate • Particulate Organic Phosphorus • Ammonium • Particulate Organic Nitrogen • Dissolved Silica • Chlorophyll a The CEWH's Flow-MER program examines the contribution of Commonwealth environmental water to the environmental objectives of the Basin Plan 2012 (Basin Plan) and is assisting the CEWH to demonstrate environmental outcomes and adaptively manage the water holdings. Monitoring and evaluation is focused in seven Selected Areas: the Junction of the Warrego and Darling rivers, Gwydir river system, Lachlan river system, Murrumbidgee river system, Edward/Kolety-Wakool river system, Goulburn River and Lower Murray River. This Flow-MER data set includes and extends the long-term data collected at the same sites during the Long Term Intervention Monitoring (LTIM) project (2014-2019).
Currency	**Date from:** 1/7/2014
	Date to: 30/6/2022
Spatial domain	**Jurisdiction/Location:** Murray-Darling Basin
	Geographic extent: -24.586 138.568 152.489 -37.682
	Coordinate system: GDA1994, EPSG 4283
Dataset status	**Progress:** Ongoing
	Maintenance and update frequency: Annually within the life of the Flow-MER project

Attributes	Attribute Name	Description	Data Type
	samplePoint	The name of the location at which the measures were taken	text
	Description	Optional description of the SamplePoint	text
	Latitude	Decimal degrees	number
	Longitude	Decimal degrees	number
	sampleDate	Unique date-time stamp that is used to identify each data record	dateTime
	Salinity	psu	number

	Phosphate	mg/L	number
	Particulate Organic Phosphorus	mg/L	number
	Ammonium	mg/L	number
	Particulate Organic Nitrogen	mg/L	number
	Dissolved Silica	mg/L	number
	Chlorophyll a	mg/L	number
	comment	Optional comment to aid interpretation of each data record for the sampleDate time stamp.	text

Data quality	**Lineage:** Exported from the MDMS 22/08/2023
	Positional accuracy: Locations accurate to 4 decimals but actual monitoring data collected at these locations can be up to 1km from the nominated point
	Attribute accuracy: Direct export from the MDMS without further processing
	Logical consistency: Sample point names are unique within the program as defined by the Lower-Murray Selected Area team
	Completeness: Complete export from the MDMS
Access and License	**Published Data Landing Page:** https://data.gov.au/data/dataset/89f2c03e-d814-4b6a-9fa7-4e4ae09b7bf2
	Distribution format: CSV tabular data
	Access constraints: Creative Commons license CC BY-SA 4.0 Attribution-ShareAlike 4.0 International). https://creativecommons.org/licenses/by-sa/4.0/ Attribution — You must give appropriate credit, provide a link to the license, and indicate if changes were made. You may do so in any reasonable manner, but not in any way that suggests the licensor endorses you or your use. ShareAlike — If you remix, transform, or build upon the material, you must distribute your contributions under the same license as the original. redistribute the material in any medium or format must give appropriate credit, provide a link to the license, and indicate if changes were made. You may do so in any reasonable manner, but not in any way that suggests the licensor endorses you or your use.
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Contributors	Flow-MER project Lower Murray River
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Custodian	Commonwealth Environmental Water Holder (CEWH), Department of Climate Change, Energy, the Environment and Water
Contact	Commonwealth Environmental Water Holder (CEWH) cewomonitoring@dcceew.gov.au
Maintainer	Flow-MER Basin scale project Shane Brooks (Flow-MER data manager) https://brooks.eco/contact
Metadata information	**Metadata date:** 8/11/2023