River Murray Flow Report



Government of South Australia Department for nvironment and Water

Report #12/2021

Issued 10:00 am 26 March 2021

This supersedes the previous flow report issued by the Department for Environment and Water (DEW) on 19 March 2021. The next flow report will be provided on Thursday 1 April 2021.

In this report, for ease of representation, large volumes of water are expressed in gigalitres (GL), while smaller volumes are expressed in megalitres (ML). One GL is equal to 1 000 ML.

QUARTERLY COMPLIANCE – QUARTER 3 ENDS ON 31 MARCH 2021

All South Australian River Murray water users are reminded that the Quarter 3 accounting period for 2020-21 ends on 31 March 2021. Compliance action will be taken if any water is taken in excess of the allocation available on a water account at the end of the quarter. For a water trade to be considered for Quarter 3, all paperwork must be lodged with the Department for Environment and Water before 5:00 pm on 31 March 2021.

In order to comply with the *Landscape South Australia Act 2019* by remaining within your available water allocation, you can:

- Stop taking water when you reach your allocation limit;
- Before you reach your allocation limit, trade water allocation onto your water account to cover your additional water needs; or
- Investigate whether water efficiency measures could be implemented for your property to decrease your demand for water.

To assist you to monitor your water use and remain within the water allocation available on your water account, you can submit an online meter reading at any time and elect to receive a water usage advice (similar to a bank statement) by email or SMS: <u>https://forms.business.gov.au/smartforms/sa-dfw/meter-reading-form/</u>.

For more information please <u>visit DEW's website</u>, or contact the Berri water licensing office via telephone: (08) 8595 2053 or email: <u>DEW.waterlicensingberri@sa.gov.au</u>.

FLOW OUTLOOK

The flow at the South Australian border is approximately 5-6 GL/day. It comprises:

- full March Entitlement Flow (6 GL/day);
- plus water for the environment (see below Environmental News); and
- interstate trade adjustments.

The flow over Lock 1 is approximately 3-4 GL/day. It is important to note that flow forecasts in this advice are based on the information available at the time of preparation. Advice may change as new gauging information becomes available or due to rainfall events or changed operations upstream.

ENVIRONMENTAL NEWS

In South Australia, water for the environment is currently helping to:

- provide for barrage releases to the Coorong to support a productive, food-rich environment for fish and birds;
- provide habitat for threatened small-bodied native fish species in the Lower Lakes;
- maintain good connections from the Coorong to the upstream areas of the River Murray, and its tributaries, to enable fish movement and migration;
- maintain healthy water quality, salinity and water levels in the River Murray Channel and the Lower Lakes and Coorong;
- remove excess salt from the River Murray;

 deliver a range of outcomes to wetlands in the Riverland via arrangements with the Murraylands and Riverland Landscape Board, Australian Landscape Trust and Nature Foundation (see more information <u>here</u>).



RESNAGGING IN THE RIVER MURRAY

We invite you to register your interest to attend a workshop to hear about the efforts currently underway to increase native fish habitat in the River Murray in South Australia. Participants will hear how construction companies, developers, Councils and other organisations can turn the environmental impact of removing trees into a genuine win for fish in the River Murray.

Participants will also hear how recent fish habitat restoration projects in South Australia have been undertaken successfully using root balls, and what is involved with implementing future restoration projects. For example, which root balls are appropriate for use? How are resnagging sites selected? How are snags built to maximise environmental benefit?

This is the ideal opportunity for businesses, developers, councils, community groups and individuals to make use of native vegetation in a positive way. Dead or dying trees, or just trees that need to be removed (with all the necessary approvals), can be utilised to recreate the fish habitat we have lost over time in the River Murray.

This workshop will explain everything you need to know about this important program. There will be expert speakers, information and advice provided in a relaxed atmosphere.

We are hosting two sessions. For more information and to register please follow the below links:

- Adelaide session: 13 April 2021 at 10:00 am
- <u>Renmark/Riverland session:</u> 15 April at 5:00 pm



Figure 1: a completed resnagging site on the River Murray in SA (Eva Dec, DEW)

MURRAY MOUTH

Dredging operations at the Murray Mouth commenced on 9 January 2015 to maintain connectivity (exchange of water) between the Coorong and the Southern Ocean. At 21 March 2021, a total of approximately 6 996 339 cubic metres of sand had been removed by dredging operations.

One dredge is currently operating between the Goolwa and Tauwitchere channels 24 hours a day, seven days a week. The second dredge is currently undergoing maintenance and will return to operations as soon as possible.

Barrage releases combined with dredging have helped to maintain flow connectivity of the River Murray Channel to the Murray Mouth and have assisted in exporting salt from the river system.

There are a number of shallow zones in and adjacent to the Murray Mouth. Mariners should use caution when traversing the mouth area, follow all directions, reduce speed and avoid travelling at low tide. Mariners equipped with echo sounders should check depths regularly. Navigation through the Murray Mouth is only permitted during daylight hours. Exclusion Zones established around the dredging operations are in place to ensure public safety. Refer to Notice to Mariners No 42 of 2016 Notice 42.

There is a partial park closure in place for the northern tip of the Coorong National Park. For more information visit <u>Coorong partial park closure notice</u>.

BARRAGE OPERATIONS AND WATER LEVELS IN THE LOWER LAKES

The water level in Lake Alexandrina is approximately 0.61 m AHD and Lake Albert is also approximately 0.61 m AHD.

As of Tuesday 23 March 2021, the weekly releases were approximately 15.4 GL. Gate openings at the barrages during the week can be seen in Table 1.

	17 March 2021	18 March 2021	19 March 2021	20 March 2021	21 March 2021	22 March 2021	23 March 2021	Objective of releases
Goolwa	1	1	1	1	1	1	1	Support diadromous fish migration.
Mundoo	0	0	0	0	0	0	0	
Boundary Creek	1	1	1	1	1	1	1	Provide an attractant flow alongside the fishway for fish migration
Ewe Island	0	0	0	0	0	0	0	
Tauwitchere	5	5	5	5	5	5	5	Releases will help push fresher water down the Coorong to assist lowering salinity levels and support the food web.
Fishways	Fishways at all barrages and at Hunters Creek (11 in total) were open during the entire week							Provide for fish passage between the Coorong and Lower Lakes.

Table 1: Number of barrage gates open each day for the week ending Tuesday 23 March 2021

During adverse weather conditions, SA Water will operate the barrages to minimise the risk of seawater entering Lake Alexandrina, therefore minimising any negative salinity impacts from reverse flow events.

Water levels and barrage operations are monitored closely by the South Australian Government, Murray-Darling Basin Authority and Commonwealth Environmental Water Office.

RIVER VESSEL WASTE DISPOSAL STATIONS

Lock 3

The Lock 3 River Vessel Waste Disposal Station is currently out of commission due to an infrastructure failure. This means that boat operators who need to empty sewage tanks will need to use the nearest alternative waste facility located at Waikerie. Alternatively boat operators who require an urgent pump-out in the Kingston-on-Murray area can contact Mr Hayden Smith on 0457 820 553 for help or advice. Normal boat waste (domestic or galley waste) can still be deposited at the Lock 3 facility at the present time.

NAVIGATION ISSUES

Sandbars in the vicinity of the Murray Mouth may cause navigation hazards. Mariners are advised to navigate with caution when operating in the area. Sandbars are also present along sections of the River Murray downstream of Locks 7 and 8 and in South Australia. All Mariners should be aware of the risk of submerged navigation hazards and should regularly check river depth.

Lock 3

Minor issues have been encountered with the downstream gates at Lock 3. Mariners are advised that lockage times may be longer than normal.

RIVER MURRAY WATER LEVELS

Below is a table of River Murray water levels at a number of locations from Lock 10 to Murray Bridge.

Location	River km	Normal Pool	Current Level	2016 High Water Level
		Level (m AHD)	24/03/2021 (m AHD)	(m AHD)
Lock 10	825.0	30.80	30.82	32.72
Lock 9 Kulnine	764.8	27.40	27.35	28.85
Lock 8 Wangumma	725.7	24.60	24.22	26.85
Lock 7 Rufus River	696.6	22.10	21.74	24.97
Lock 6 Murtho	619.8	19.25	19.29	20.19
Renmark	567.4	-	16.36	17.44
Lock 5	562.4	16.30	16.36	17.05
Lyrup	537.8	-	13.28	15.80
Berri	525.9	-	13.24	15.21
Lock 4	516.2	13.20	13.24	14.73
Loxton	489.9	-	10.08	13.54
Cobdogla	446.9	-	-	11.59
Lock 3	431.4	9.80	9.86	10.98
Overland Corner	425.9	-	6.30	10.41
Waikerie	383.6	-	6.27	9.20
Lock 2	362.1	6.10	6.17	8.32
Cadell	332.6	-	3.39	7.01
Morgan	321.7	-	3.30	6.38
Lock 1 Blanchetown	274.2	3.20	3.26	4.46
Swan Reach	245.0	0.75	0.70	3.11
Mannum PS	149.8	0.75	0.72	1.33
Murray Bridge	115.3	0.75	0.66	1.04

River Murray Water Levels

Note that the above water levels may be affected by local wind conditions

FURTHER INFORMATION

The WaterConnect website is South Australia's comprehensive water information portal. For real-time data (like salinity, water levels) go to the following page: <u>WaterConnect Real-time water data</u>.

Up-to-date River Murray salinity, flow and water level information can be accessed at the Department for Environment and Water, SA Water and Murray-Darling Basin Authority websites:

- <u>Water allocation and carryover announcements</u>
- <u>River Murray real-time water data</u>
- SA Water River Murray info levels, flows etc.
- <u>Murray-Darling Basin real-time water data</u>

The latest news, information and announcements about the River Murray and Basin Plan are available at <u>River Murray</u> <u>Update</u>.

The Department for Environment and Water has published a series of inundation maps for the River Murray. They are available at <u>River Murray Inundation Maps</u>.

Information on the management of acid drainage water in the Lower River Murray can be accessed at: <u>Managing Acid Sulfate Soils Research Project</u>

Details of river height and rainfall information in the River Murray within Victoria and New South Wales are available at the Bureau of Meteorology website:

- <u>Victoria rainfall and river conditions</u>
- <u>NSW rainfall and river conditions</u>

Information provided by the Commonwealth Environmental Water Office can be accessed at <u>CEWH Environmental</u> <u>Watering</u>.

Information on The Living Murray can be accessed at MDBA TLM.

Chowilla Floodplain Icon Site management Chowilla-floodplain.

Katarapko Floodplain site management

<u>Pike Floodplain</u> site management

Department for Environment and Water Home page.

Information provided by the Department of Planning, Transport and Infrastructure on boat licences, registering motor boats, owning and operating water craft, and boat and marine safety can be accessed at <u>Boating and marine</u>.

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