

Report #23/2019

Issued 10:00 am 21 June 2019

This supersedes the previous flow report issued by the Department for Environment and Water (DEW) on 14 June 2019. The next report will be provided on Friday 28 June 2019.

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.

WATER ALLOCATIONS AND PRIVATE CARRYOVER

The minimum opening irrigation allocation (Class 3) for 2019-20 is 26 percent. The next water allocation announcement will be provided on 1 July 2019. Water availability updates will be provided twice a month during 2019-20 while water allocations are less than 100 percent.

Further information is included in the June [SA's River Murray Water Allocation Statement](#) (open the link and scroll down to find the statement).

Private carryover will also be made available in 2019-20 for Class 3 entitlement holders. To be eligible for private carryover in 2019-20 you must:

- hold a Class 3 Entitlement;
- underuse your water allocation in 2018-19; and
- submit your final meter reading to the Department for Environment and Water, Berri Water Licencing Branch, by 31 July 2019.

To make it easy to understand how private carryover works, please view the [carryover video](#).

FLOW OUTLOOK

The flow at the South Australian border is approximately 4.5 GL/day and will decrease to around 3.8 GL/day during the coming week. It comprises:

- normal June Entitlement Flow of 3 GL/day;
- plus environmental water; and
- interstate trade adjustments.

The flow over Lock 1 is approximately 4.3 GL/day and will decrease to around 3.3 GL/day during the coming week, depending on weather conditions and extractions.

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 WATER

Environmental water is being provided to South Australia for:

- a range of outcomes at Bookmark Creek near Renmark via arrangements with the SA Murray-Darling Basin Natural Resources Management Board; and
- the Lower Lakes and Coorong to:
 - improve salinity and water quality;
 - manage lake water levels while providing for ongoing releases to the Coorong to maintain estuarine habitat for fish; and
 - maintain a connection between the Lower Lakes and Coorong to allow for fish movement (for further details see *Barrage Operations and Water Levels in the Lower Lakes* section).

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.

Both dredges are operating 24/7 in the Goolwa and Tauwitchere channels. At 16 June 2019, a total of approximately 4 520 122 cubic metres of sand had been removed by dredging operations. Barrage releases combined with dredging have helped to maintain connectivity of the Murray Mouth.

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 [Coorong partial park closure notice](#)

BARRAGE OPERATIONS AND WATER LEVELS IN THE LOWER LAKES

The water level in Lake Alexandrina is approximately 0.66 m AHD and Lake Albert is approximately 0.70 m AHD. The difference in water level is due to wind effects.

During the week ending 18 June 2019 total barrage releases were approximately 4.9 GL. All fishways remain open. 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.

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.

RIVER MURRAY STATE GOVERNMENT OWNED LEVEE EMBANKMENTS

River Murray Infrastructure Operations has secured additional funding to further improve the state of levee embankments along the River Murray. The works include:

- Installation of fencing along 4.2 km of the Monteith levee embankment;
- Repairs along 2.5 km of the Mypolonga levee embankment due to natural wear and tear; and
- Repairs along the Jervois and Mobilong levee embankments to repair damage caused on the river side of the embankments due to wave action.

These works will be completed next week.

RIVERINE RECOVERY CONSTRUCTION WORKS

The Riverine Recovery Project is constructing environmental regulators to manage a number of wetlands between Mannum and Murtho. Construction has finished at a number of these sites with the remaining wetlands due for completion in the coming months.

SA RIVERLAND FLOODPLAINS INTEGRATED INFRASTRUCTURE PROGRAM CONSTRUCTION WORKS

Katarapko

Construction works on the Katarapko Floodplain are expected to be completed by mid-2020. As a result, some parts of the Murray River National Park will be temporarily closed for camping and other recreational activities. See the link for temporary park closure map [Caring for Katarapko](#)

For safety reasons, the following water access restrictions apply to river vessels and people (other than authorised personnel) until late March 2020:

1. Sawmill Creek, the entire length between Katarapko Creek and Eckert's Creek; and
2. Eckert's Creek, for 1.3 kilometres upstream of the confluence point with Katarapko Creek (ie *The Splash*).

The construction works will enable over 1120 hectares of floodplain to be inundated more regularly to improve ecological health and resilience. For more information, or to receive regular updates, about the Katarapko Floodplain Project please contact the Department for Environment and Water's Engagement Officer, Ms Ellee Eleftheriadis on 8595 2148 or email ellee.elftheriadis2@sa.gov.au

Pike

Regulating structures and a blocking bank on the Pike Floodplain are expected to be completed by December 2019. During the construction period, vessels and persons other than those participating in the works are prohibited from entering the Pike River near the Rumpagunyah Creek and Tanyaca Creek junction, downstream of the Mundic Creek junction. The works will enable a portion of the floodplain to be inundated more regularly to improve ecological health and fish to move freely between the River Murray and the floodplain.

RIVER MURRAY WATER LEVELS

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

River Murray Water Levels

| Location | River km | Normal Pool Level (m AHD) | Current Level 19/6/2019 (m AHD) | 1974 Flood Level (m AHD) | 1993 Flood Level (m AHD) | 2016 High Water Level (m AHD) |
|--------------------|----------|---------------------------|---------------------------------|--------------------------|--------------------------|-------------------------------|
| Lock 10 | 825.0 | 30.80 | 30.78 | 33.81 | 33.32 | 32.72 |
| Lock 9 Kulnine | 764.8 | 27.40 | 27.30 | 30.03 | 29.44 | 28.85 |
| Lock 8 Wangumma | 725.7 | 24.60 | 24.21 | 27.60 | 27.19 | 26.85 |
| Lock 7 Rufus River | 696.6 | 22.10 | 22.02 | 25.70 | 25.24 | 24.97 |
| Lock 6 Murtho | 619.8 | 19.25 | 19.23 | 21.03 | 20.50 | 20.19 |
| Renmark | 567.4 | - | 16.34 | 18.54 | 18.04 | 17.44 |
| Lock 5 | 562.4 | 16.30 | 16.33 | 18.07 | 17.50 | 17.05 |
| Lyrup | 537.8 | - | 13.25 | 16.85 | 16.26 | 15.80 |
| Berri | 525.9 | - | 13.22 | 15.81 | 15.74 | 15.21 |
| Lock 4 | 516.2 | 13.20 | 13.22 | 15.65 | 15.08 | 14.73 |
| Loxton | 489.9 | - | 10.09 | 15.05 | 14.12 | 13.54 |
| Cobdogla | 446.9 | - | 9.93 | 13.44 | 12.38 | 11.59 |
| Lock 3 | 431.4 | 9.80 | 9.89 | 13.16 | 12.02 | 10.98 |
| Overland Corner | 425.9 | - | 6.29 | 12.73 | 11.58 | 10.41 |
| Waikerie | 383.6 | - | 6.26 | 11.26 | 10.24 | 9.20 |
| Lock 2 | 362.1 | 6.10 | 6.16 | 10.28 | 9.30 | 8.32 |
| Cadell | 332.6 | - | 3.36 | 9.17 | 8.08 | 7.01 |
| Morgan | 321.7 | - | 3.31 | 8.85 | 7.65 | 6.38 |
| Lock 1 Blanchetown | 274.2 | 3.20 | 3.24 | 6.81 | 5.38 | 4.46 |
| Swan Reach | 245.0 | 0.75 | 0.64 | 6.06 | 4.51 | 3.11 |
| Mannum PS | 149.8 | 0.75 | 0.65 | 3.15 | 1.90 | 1.33 |
| Murray Bridge | 115.3 | 0.75 | 0.61 | 2.06 | 1.26 | 1.04 |

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:

[WaterConnect Real-time water data](#)

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

- [Water allocation and carryover announcements](#)
- [River Murray real-time water data](#)
- [SA Water River Murray info - levels, flows etc.](#)
- [Murray-Darling Basin real-time water data](#)

The latest news, information and announcements about the River Murray and Basin Plan are available at [River Murray Update](#).

The Department for Environment and Water has published a series of inundation maps for the River Murray. They are available at [River Murray Inundation Maps](#)

Information on the management of acid drainage water in the Lower River Murray can be accessed at [Acid drainage water LMRIA](#)

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

[Victoria rainfall and river conditions](#)

[NSW rainfall and river conditions](#)

Information provided by the Commonwealth Environmental Water Office can be accessed at [CEWH Environmental Watering](#)

Information on The Living Murray can be accessed at [MDBA TLM](#)

Chowilla Floodplain Icon Site management [Chowilla-floodplain](#)

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 [Boating and marine](#)

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