



WEEKLY BULLETIN

December 20th 2010

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The Lakes Hub is part of the Lower Lakes Bioremediation and Revegetation Project funded by the Australian Government and supported by the South Australian Department of Environment and Natural Resources.

General Info.

The Southern Bell Frog Census of Lake Alexandrina

Lake Albert and the tributaries is investigating how this threatened frog species (*Litoria raniformis*) is responding to the changes in water levels and conditions in the region. This is building upon monitoring conducted in 2009 when lake levels were low and wetland habitats were dry. 26 sites in the region are included in the monitoring which is being undertaken by the SA Murray Darling Basin Natural Resources Management Board funded by Department for Environment and Natural Resources.

Clayton Bay and Dunn's Lagoon are two of the 26 sites included in the project. Clayton Bay recorded the largest abundance of Southern Bell Frogs in 2009. The monitoring is conducted with the help of a number of local volunteers who record and identify the mating call of male frog species. Spotlighting is also undertaken to find adult frogs, egg masses and metamorphs (a tadpole in the final stages of its development into a frog).

Approximately 15 volunteers have assisted the monitoring at Dunn's Lagoon and Clayton Bay to date across three survey rounds.

The final stages of the monitoring will include fish surveys to not only detect fish that have moved into recently inundated wetland habitats, but also to detect Southern Bell Frog Tadpoles. This will be conducted in mid-late December 2010 and Late January 2011.



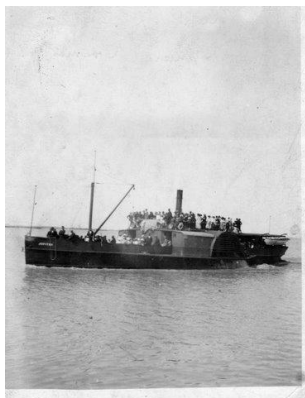
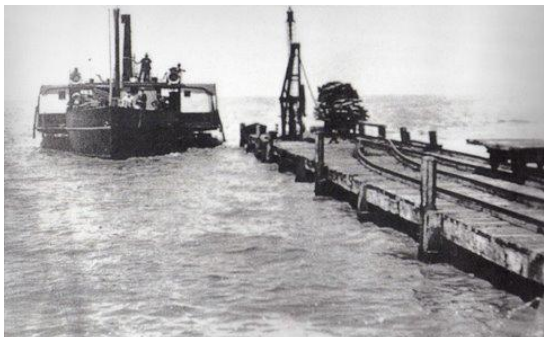
For more information or how to get involved, please contact Kate Mason at the Murray Bridge Natural Resources Centre on (08) 85 321 432.

Right : Kate Mason
Wetlands Project Officer (Lower Murray)
South Australian Murray-Darling Basin
Natural Resources Management Board

Left : Irene Wegener and injured turtle.

DENR – New Landscapes website.
<http://www.landscapes.sa.gov.au/site/home.jsp>

Two shots of the PS Jupiter coming in to the Milang Jetty and the other the "Band of Hope Excursion" to the river mouth where they often camped overnight and returned the following day. Approximate date 1870. Note the TWO lifeboats for the 100 or so crowd.



Thank you Bob H.

The latest River Murray High Flow advice is available on the Department for Water Website

<http://www.waterforgood.sa.gov.au/news-info/publications/river-murray-update/>

under the related news section on the right hand side of the web page.

This advice will be issued each Friday by 5pm while high flows remain.

Link to the hazard map is

http://www.transport.sa.gov.au/safety/marine/rec_boating/emerging_hazards.asp

Request for Volunteers: Annual Shorebird Count

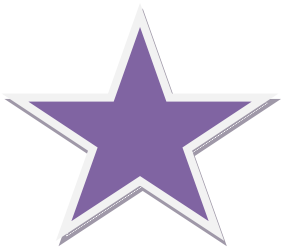
Efforts of volunteer shorebird counters for the last 28 years have allowed us to understand where the important areas for shorebirds are in Australia, and that shorebirds are showing increasing evidence of decline. The Summer Count Schedule is out now and can be viewed on the link below.

To learn more about the Shorebirds 2020 program and to find all kinds of information on shorebirds visit:

<http://www.shorebirds.org.au>

THIS WILL BE THE LAST BULLETIN FOR 2010.

**ALL STAFF AT THE LAKES HUB - MILANG & MENINGIE, WISH YOU A VERY SAFE
AND HAPPY CHRISTMAS AND NEW YEAR.**



Christmas Opening Hours

| | |
|-----------------------------------|-----------------------|
| DECEMBER 23TH - | OPEN 9AM – 5PM |
| DECEMBER 24TH - | CLOSED |
| DECEMBER 25TH - | CLOSED |
| DECEMBER 26TH - | CLOSED |
| DECEMBER 27TH - | CLOSED |
| DECEMBER 28TH - | CLOSED |
| DECEMBER 29TH - | OPEN 9AM – 4PM |
| DECEMBER 30TH - | OPEN 9AM – 4PM |
| DECEMBER 31ST - | CLOSED |
| JANUARY 1ST - | CLOSED |
| JANUARY 2ND - | CLOSED |
| JANUARY 3RD - | CLOSED |
| JANUARY 4TH - | OPEN 9AM – 5PM |
| JANUARY 5TH - | OPEN 9AM – 5PM |

DAILY RECORDINGS – RIVER MURRAY DATA

Data received from <http://e-nrims.dwlbc.sa.gov.au/Telemetry/Default.aspx?App=RMW>

Date : Dec 13th - Dec 17th 2010

| DATE | SITE | WATER LEVEL AHD | PH | SALT (EC) |
|------|---------------------------------|--------------------------------|-------------|-------------|
| 13 | Clayton Bay | | | |
| 14 | | Communication with site failed | | |
| 15 | | | | |
| 16 | | | | |
| 17 | | | | |
| | Average | | | |
| 13 | Milang 7km SE | 0.786 | 7.43 | 1474 |
| 14 | | 0.784 | 7.53 | 1344 |
| 15 | | 0.738 | 7.62 | 1359 |
| 16 | | 0.749 | 7.21 | 1030 |
| 17 | | 0.756 | 7.27 | 901 |
| | Average | 0.763 | 7.41 | 1221 |
| 13 | Hindmarsh Is. Beacon 23 | 0.658 | - | 1382 |
| 14 | | 0.629 | - | 1397 |
| 15 | | 0.506 | - | 1443 |
| 16 | | 0.620 | - | 1397 |
| 17 | | 0.606 | - | 1385 |
| | Average | 0.604 | | 1401 |
| 13 | Warrengeie Point Lake Albert | 0.838 | 8.57 | 6864 |
| 14 | | 0.845 | 8.68 | 7148 |
| 15 | | 0.754 | 8.87 | 7246 |
| 16 | | 0.807 | 8.66 | 7218 |
| 17 | | 0.848 | 8.75 | 7150 |
| | Average | 0.818 | 8.71 | 7125 |
| 17 | PARNKA POINT | 0.779 | - | 66,303 |
| 17 | SALT CREEK | 0.781 | - | 125,258 |

THIS WEEK'S FLOW INFO :

<http://www.riverland.net.au/~heinz/mdbcrep.htm>

MDBA website – weekly reports http://www.mdba.gov.au/water/river_info/weekly_reports



Government of South Australia
Department for Water

WATER IS GOOD

RIVER MURRAY FLOW ADVICE-UPDATE

Increased Flows to South Australia

Issued 17:00 17 December 2010

This supersedes the previous flow advice issued by the Department for Water (DFW) at 17:00, 10 December 2010.

This is NOT a Flood Warning. A further update will be provided on Friday 24 December 2010.

DECEMBER 2010 to JANUARY 2011 FLOW OUTLOOK

Flow to South Australia has increased over the last week to 65,000 ML/day in response to heavy rainfall upstream of the South Australian border, high River Murray flow and inflows from the Darling and Murrumbidgee Rivers. Flows over the next week are expected to be in the range of 65,000 ML/day to 75,000 ML/day, depending on operations and flow conditions upstream.

This flow is due to a number of factors, including operations of structures upstream of South Australia limiting the ability to control river flow upstream of Lock 6 to Lock 11.

The increased flow to South Australia is also partially due to implementing the Lake Victoria Operations Strategy.

This strategy aims to minimise the amount of time water in the lake is held at high levels to protect native vegetation and the cultural heritage around the lake. The water level in Lake Victoria remains partially drawn down (currently 513 GL or 75% capacity and this level will reduce further) and will be refilled at a later stage given that high flow conditions are expected to remain for at least the next two months.

Currently no water is flowing into Lake Victoria through Frenchman's Creek and, as a result, more water will flow down the main channel. There will also be increased flow down the Rufus River due to higher releases from the lake (currently 7,000 ML/day). The current flows will not result in overbank flows of the main channel of the River Murray and will result in low-lying areas of the Chowilla floodplain receiving water from creeks and flood runners. Locks 5, 6, 7, 8, 9, 10 and 11 navigable passes have been removed due to the high flow upstream. Locks 7 and 8 are currently under water and Locks 1 and 3 navigable passes should be removed in the next week.

Flow conditions to South Australia will increase over the coming weeks. While the flow range in mid January 2011 is still unclear, due to the uncertainty about flows from the Murrumbidgee River and releases from Menindee Lakes, there is a possibility flow could reach 90,000 ML/day. A flow of 90,000 ML/day is not a threat to towns and levee banks; however, some roads campsites and causeways located on floodplains are likely to be inundated. This peak flow rate is within the normal historical flow range for the River Murray in South Australia. No populated areas will be at risk of flooding from this flow, but some low-lying areas of the floodplain, creeks and flood runners are receiving additional water.

People below Lock 1, particularly between Blanchetown and Mannum, should take any necessary actions to modify irrigation infrastructure, pontoons and moorings to allow for temporary river level rises due to increased flows over Lock 1 and from wind.

SA Water and the Department for Water have developed a River Murray Level Water Level chart to provide projected water level heights at a number of locations from Lock 9 to Murray Bridge. The table below outlines the projected water levels, which are based on previous events, but these levels may change as river conditions and operations upstream of the South Australian border change.

People interested in actual levels should check the following websites for regularly updated daily levels, as the projections do not take into account wind.

SA Water

www.sawater.com.au/SAWater/Environment/TheRiverMurray/River+Murray+Levels.htm

Department for Water

<http://www.waterconnect.sa.gov.au/RMWD/Pages/default.aspx>

Information is also available from SA Water on 08 8595 2299

COMPARISON WITH PREVIOUS FLOW EVENTS

For comparison, the 1974 flood peak was 180,000 ML/day, well above current and projected levels. In 2000-01, flow peaked in mid-December 2000 at 64,000 ML/day and in mid-December 1992 flows peaked at 93,000 ML/day.

HIGH FLOWS AND RECREATION

All river users are reminded to exercise caution when entering fast-flowing rivers and are reminded to enjoy the river, but to take care for yourself and others.

- Do not drive, ride or walk through floodwater, flood-affected causeways or roads.
- Be aware that branches and other hazardous debris may be hidden below the surface of the river.
- Be aware of the risks of faster flowing water when travelling on or swimming in the river.
- Do not allow children to play in or near floodwater or fast-flowing river water.
- Regularly monitor river levels in your local area, and take care not to become isolated by rising water.
- Obey any instructions from the emergency services (SES, SA Police and CFS).
- For flood-related assistance, contact the SES on 132 500
- To report a riverbank collapse, contact the Department for Water on 1800 751 970
- For life-threatening emergencies, call 000

FLOOD RISK ABOVE LOCK 1

Pool levels between the border and Lock 1 will change in response to the higher flow conditions. Options for managing weir pools for improved environmental outcomes are currently being considered and any actions to water greater areas of the floodplain will require further manipulation of weir pool levels. The projected risk of harmful inundation under current flow projections is very low, but water levels immediately downstream of all locks will increase to levels observed above normal regulated flow conditions. In some situations there will be very little difference between the upstream and downstream water levels.

Immediately downstream of some locks the water levels are currently 2m to 2.5m above the normal regulated level. This is expected as part of normal flow management operations, and is not expected to pose a risk to people or property.

People planning to visit low-lying floodplain areas above Lock 1 in the near future are advised to monitor water levels and road access conditions, and take reasonable precautions.

FLOOD RISK DOWNSTREAM OF LOCK 1

Flow over Lock 1 is currently 50,000 ML/day and further rises will occur - potentially to around 55-65,000 ML/day. Water levels immediately downstream of Lock 1 remain high at 3.2 AHD. This compares to minus 0.51m AHD at the same time last year. Further rises are expected to occur from immediately downstream of Lock 1 to Mannum. The range currently expected is up to 3.7m AHD at Lock 1 to 1.05m AHD at Murray Bridge.

Below Lock 1, the Lower Lakes are currently higher than their normal full supply level of 0.75m AHD and water is being released from the barrages to manage the higher flows and to drawdown the water level in the Lower Lakes for improved salinity outcomes, particularly in Lake Albert. Some minor changes may occur to these operations to achieve specific environmental outcomes.

River Murray levels between Lock 1 and the Lower Lakes continue to rise in response to recent flow increases and may rise further if flow increases during the next week. Localised increases in water level may also occur as a result of wind effects.

In response to the projected December 2010 flow increase, localised water level increases are expected to occur and indicative levels are shown in the table below. Note that these are indicative and may be affected by localised wind conditions.

| <u>Reach</u> | <u>Projected level above normal pool (0.75m AHD)</u> | <u>Projected level AHD</u> |
|-----------------------------|--|----------------------------|
| Wellington to Murray Bridge | 0.2 -0.3m above pool | 0.95 – 1.05m AHD |
| Murray Bridge to Mannum | 0.3 – 0.45m above pool | 1.05 – 1.2m AHD |
| Mannum to Purnong | 0.45 -0.85m above pool | 1.2 – 1.6m AHD |
| Purnong to Swan Reach | 0.85 – 2.05m above pool | 1.4 6 – 2.8m AHD |
| Swan Reach to Lock 1 | 2.05 – 2.95m above pool | 2.8 – 3.7m AHD |

There may be water over low-lying access roads.

People planning to visit low-lying floodplain areas below Lock 1 in the near future are advised to monitor water levels and road access conditions, and take reasonable precautions.

People are advised to monitor the latest weather and flow forecasts and obey any signage along the River Murray or instructions from the emergency services.

For flood-related assistance, call the State Emergency Service on 132 500.

For life-threatening emergencies, call 000.

Areas along the River Murray between Lock 1 and Lower Lakes that are protected by levee banks are advised that due to prolonged drought conditions and low river levels:

- levee banks may have deteriorated and could be at risk of failure; and
- floodplain areas including levee banks may have subsided due to soil drying and consolidation.

There have been isolated cases of levee bank leakage due to rising River Murray levels. This Department is closely monitoring the situation and working closely with the SES to ensure public safety.

Projected increased flow in December 2010 and January 2011 may continue to impact levee banks downstream of Lock 1. People in the vicinity of levee banks are advised to regularly monitor levee bank condition.

If significant structural cracking or leakage of levee banks is evident, people are advised to avoid the area, relocate to higher ground and call the Riverbank Collapse Hotline (**1800 751 970**) to report any observations.

RIVERBANK COLLAPSE

The predicted additional flows will raise water levels downstream of Lock 1, including areas known to be at risk of riverbank collapse. There is an increased risk of riverbank collapse occurring at some locations where soils show signs of cracking.

People living, working or playing along the River Murray below Lock 1 are advised to continue to look out for the signs of potential riverbank collapse. These include cracking in the river bank, leaning trees or bubbles in the river.

Further information is available at the Riverbank Collapse section of <http://www.sa.gov.au>.

To report the signs of Riverbank Collapse or to obtain further information call the free 24 hour **Riverbank Collapse Hotline (1800 751 970)**. **For life-threatening emergencies, call 000.**

FURTHER INFORMATION

Up to date River Murray flow information can be accessed at the DFW, SA Water and Murray-Darling Basin Authority websites:

<http://data.rivermurray.sa.gov.au>

www.sawater.com.au/SAWater/Environment/TheRiverMurray/River+Murray+Levels.htm

<http://www.mdba.gov.au/water/live-river-data>

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:

<http://www.bom.gov.au/vic/flood>

UPDATES

This Advice remains current until the Department for Water notifies otherwise

