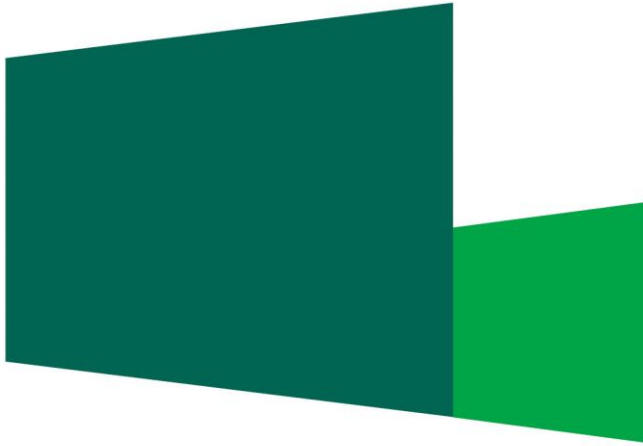
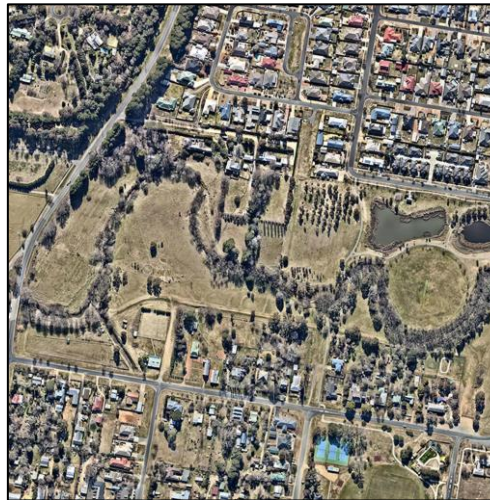




Bungendore Floodplain Risk Management Plan Implementation

Community engagement report



Executive Summary

Bungendore floodplain implementation works were recommended in the Bungendore Floodplain Risk Management Plan adopted by the former Palerang Council in 2014. After the Bungendore Floodplain Risk Management Plan was adopted in 2014, Council sought funding from Office of Environment and Heritage through their Floodplain Risk Management Grants Scheme. Council was successful in obtaining this funding and progressed to engage NSW Public Works Advisory.

In 2018 Council engaged NSW Public Works Advisory to undertake site investigations and prepare concept designs to guide the implementation of the Bungendore Floodplain Risk Management implementation plan.

The plan makes recommendations for flood mitigation measures. The scope of the measures are to:

- Upgrade the existing Turallo Terrace levee
- Construct an overflow channel across Tarago Road
- Remove dense vegetation and re-shape creek where Turallo, Halfway and Millpost Creeks meet

A summary document of the flood mitigation measures, the NSW Public Works Advisory report on the concept designs, and a Review of Environmental Factors were made available for public comment between 13 July and 16 August 2018.

This report outlines the representations received as part of the community and stakeholder consultation and how Council has addressed them.

Community engagement opportunities

A Bungendore Floodplain Risk Management Plan implementation project page was published on Council's community engagement hub, Your Voice between 13 July and 16 August 2018.

The Your Voice project page provided the following documents to inform readers:

- Summary of Flood Mitigation Measures
- Report - Implementation Plan and Concept Designs
- Review of Environmental Factors
- Bungendore Floodplain Risk Management Plan
- Bungendore Floodplain Risk Management Study

The Your Voice page provided the opportunity to provide feedback on any, and all, documents that were provided for comment.

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The opportunity to comment on the Bungendore Floodplain Risk Management Plan was promoted through postings on social media (Facebook); articles in weekly eNewsletter and articles in the QPRC 'For Your Information' full page advertisement which appears fortnightly in local newspapers. Emails were also sent to affected landholders.

Council staff conducted a drop-in-session on 16 August 2018 from 5:30pm to 7:30pm at the Bungendore Council Office. The session was primarily for affected landholders and included the consultants engaged to undertake site investigations and prepare concept designs.

Comments received

The following table provides a copy of all comments received and how Council has addressed them.

Feedback	Council Response	Outcomes
Dear Manager, Re Bungendore Floodplain Risk Management Plan I write to comment on the above plan. In my opinion the highest priority should be clearing the junction of Turallo and Halfway Creeks. Next should come the construction of the overflow channel across Tarago Road. My concern is with the Turallo Terrace Levee. I and many people I talk to question the efficacy of raising the levee bank. Firstly, there is nothing to stop floodwater flowing up the drain between the bowling club and the community garden however high the levee bank. Secondly, floodwater can flow around the western end of the bank and back into the village. The proposal, if accepted would see the felling of about 20 mature trees planted on top of the levee bank, a serious loss of amenity. If Council proceeds with this option I believe the trees could be saved by construction of two stone retaining walls for the 50 meters or so where the trees are. There are even more valuable trees at the western end of the levee bank which might be threatened by the raising of the bank. These are large Hungarian Oaks (<i>Quercus frainetto</i>), now quite rare. Although they are not planted on the bank itself it is hard to imagine how the bank could be raised without damaging them. They are some of Bungendore's more significant trees and their damage or loss should not be commenced.	The works will be constructed in 3 stages. 1. Confluence clearing 2. Channel construction 3. Levee bank construction The design has been modelled to ensure that raising the bank reduces the risk to the community.	Council will confirm the sequence of the work at the time of Construction

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Feedback	Council Response	Outcomes
Council received a phone call from a resident who requested that the following be considered. - He would like the fill removed from the channel on his property to remain on his property and building up the low level sections of his paddocks.	Noted	A determination will be made during the detailed design stage.
Facebook – Just a thought: Maybe ya shouldn't be allowing childcare facilities in flood planes?	Noted	Nil

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I refer to the releases for Public Comment of the Bungendore Flood Risk Management Implementation Plan Preliminary Concept Design Report –Stage 1, and the Bungendore Floodplain Risk Management Plan Review of Environmental Factors. Please find below our response to these two documents Bungendore Floodplain Risk Management Plan Review of Environmental Factors I believe this report has adequately documented and assessed the potential environmental factors associated with the proposed works. I agree that the proposed works are not likely to have a significant impact on the environment or to significantly affect threatened species, populations, ecological communities, or critical habitat. I query the text on Page 11 which identifies the Australian Reed-Warbler, is “listed as marine under the EPBC Act”. The Australian Reed Warbler is not a marine species, it is a common inhabitant of wetland and reedy areas (both estuarine and freshwater) across southern Australia. It is not a threatened species under either the EPBC Act or the NSW Biodiversity Conservation Act. Bungendore Flood Risk Management Implementation Plan Preliminary Concept Design Report –Stage 1 We support the proposed measures for the: • Removal of dense vegetation and creek re-shaping at the confluence of the Turallo and Halfway Creeks; and the • Construction of an overflow channel across Tarago Road. We also support the general concept for the Upgrade and partial realignment of the existing Turallo Terrace levee (i.e. we support the proposed levee realignment towards the back of the residential properties from 52-64 Turallo Terrace), but have comments about some details and the proposed location of the proposed works (see below). The document is confusing in that it is difficult to precisely ascertain the ‘finality’ of the designs for the three components of the proposed works. On Page 12 (relating to the levee upgrade and re-alignment) the document states “Following the survey results from the private properties owners, Council has selected its preferred levee realignment option which “is to be modelled further and progressed to the preliminary concept design” but in Section 1.1 the document states: “The subject of this study is the first part of the final stage of the process, including developed concept design, in order to implement the mitigation works in Bungendore.” As we understand it, the document presents the ‘developed concept designs’ for the vegetation removal at the confluence of the Turallo and Halfway Creeks; and the construction of an overflow channel across Tarago Road; but that the document only presents ‘Preliminary Concept Design’ for the levee, which will be subject to further modelling and refinement and progressed? (i.e. we will get another opportunity see the designs for the levee upgrading and realignment)? Can you please let me know whether this is a correct interpretation. Assuming our interpretation of the document is correct, we make the following comments on the proposed levee upgrade and realignment. Contrary to the statements within the Bungendore Flood Risk Management Implementation Plan Preliminary Concept Design Report –Stage 1, (e.g. section 3.3.2 page 12; section 4.3 page 19; section 4.7.2 Page 24), the proposed levee re-alignment	Council has noted the Australian Reed-Warbler error within the REF and will organise for the REF to be updated. The alignment of the levee bank has been noted that it may be within private property. Vehicle access to the rear of the properties will be restricted. Access will be maintained for council, emergency service vehicles and other vehicles with justified access requirements.	QPRC has requested that the designers re-assess alignment and move it towards the creek where possible.
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Feedback	Council Response	Outcomes
at the rear of 52-64 Turallo Terrace does not “deviate around the private properties” or minimise encroachment of the levee on private property at all. In email correspondence with the QPRC on 30 March 2018 it was stated that “After resident consultation we have progressed an alternative design for the flood levee bank along Turallo Creek. This design will ensure that the levee bank remains off private land where possible”. The current proposal wholly contains the re-aligned levee sections within private property, defeating one of the major reasons for levee re-alignment which was to allow QPRC unfettered access along the entire levee for maintenance. As the current proposed re-alignment is still within private property, QPRC access will not be facilitated, as the levee will be crossed in multiple locations by property fences. Our onsite discussions with QPRC have always highlighted our desire to move as much as possible of the levee outside of our current rear fenceline (which is 2-4 m inside our actual property boundary), but the current proposal totally ignores this desire. The proposed levee and associated concrete wall is actually inside our fenceline (i.e. 3-5 m inside our property boundary), which makes no sense at all. We will now have a ~1.6 m high vertical concrete wall within our property, with all the associated health and safety concerns for visitors to our property and our grandchildren. This is not acceptable. We would prefer the concrete wall to be on our actual boundary, so that we can erect a boundary fence inside of that (i.e. to the south of the wall) and eliminate our safety concerns. We realise the moving of the concrete wall to the edge of our property boundary means it is closer to the creek, but as an ephemeral stream, with peak floodwaters already impounded by the upstream railway embankment, and a proposed concrete wall to deflect high flows, this is of marginal concern. The drawings of the upgrade of the existing Turallo Terrace levee (Measure 2) currently do not provide for rear of property vehicle access to our property at 60 Turallo Terrace. The current position and concept drawings of the concrete flood wall from chainage 90 to 160 means that there will be a vertical drop of approximately 1.6 m (from existing ground level to Design Levee Crest Level), with no indication that there is any vehicle access to our property at right angles to this wall. As the proposed re-aligned levee is wholly contained within private property between 54 and 64 Turallo Terrace, it is not likely that we will be able to travel along the top of the levee wall (i.e. through adjoining private property) to access our block. Our previous onsite discussions with Council on 13/12/2017 and our written response on 05/02/2018 to the QPRC around preliminary flood control options highlighted the need for us to maintain this rear property access. As the closing date and time for Public Comment (we assume 5 pm 16 August 2018) is prior to the Community information session (6-7 pm on the same date), we make this submission without the benefit of attending the Community information session. We are happy to continue to work with QPRC to refine the detail of the proposed realignment of the levee.		

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Feedback	Council Response	Outcomes
Community drop in session covered the details from the submission above. Discussion also included the status of the existing levee bank which is on private property.	Council will remove the levee bank within private property to the following extent: Ensure that water is not trapped between the two levee banks. Where infrastructure cannot easily be removed and relocated sections of the levee bank will remain. This will be carried out in conjunction with the property owners. Land Acquisition will need to be considered during the detailed design phase.	The re-alignment of the levee (away from the property fence boundary) will be confirmed at detailed design
I refer to the above subject and wish to provide the following comments: 1. I would like to see the creek reshaping and overflow channel occur before any levee bank enhancement as I think they are better value for money. 2. When the creek reshaping does occur I would prefer that trees above the channel, on the top of the banks, be retained as a better visual and stability option. Landcare has planted many of these trees and I think they should be included in the planning of this. Thank you	Creek reshaping will occur before levee bank expansion. A Flora and Fauna study has been conducted by qualified experts. They have identified species of significance and the levee bank will deviate around these trees.	Council will confirm the sequence of the work at the time of construction.

