

04 September 2019

Hugh Stanford  
Victorian Planning Authority

Task: Advice for PSP Bridge Crossings  
Project: Sunbury South and Lancefield Road PSP - Jacksons Creek Bridge Crossings  
Melbourne Water reference: MWA-1147228  
Date referred: 01/08/2019

Thank you for providing Melbourne Water with the opportunity to comment on two of the concept bridge crossing designs (references: LR\_BR\_01 and SS-BR01) proposed over Jacksons Creek. It is noted that these future bridge crossings will be funded by the Sunbury South and Lancefield Road Infrastructure Contributions Plans.

Bridge LR\_BR\_01 is proposed south of EMU bottom wetland. The approximate 1% AEP flood level at the proposed bridge location is approximately 201.1 metres AHD.

Bridge SS-BR01 is proposed adjacent to Holden Flora Fauna Reserve. The approximate 1% AEP flood level at the proposed bridge location is 157 metres AHD.

Based on the preliminary bridge cross sections provided, Melbourne Water does not object to the intent of the concept bridge designs as proposed, noting that additional information will be required for review and acceptance by Melbourne Water and DELWP as the designs for these assets progress.

General Advice:

Melbourne Water would like to also provide the below advice/comments for future consideration in regards to the progression of these designs:

- Bridge crossings should not increase the upstream and downstream 1% AEP flood levels of Jacksons Creek.
- The underside of the bridge should be set at least 600 mm above the 1% AEP flood level of Jacksons Creek (Melbourne Water notes that the underside of both proposed bridge crossings are well clear).
- Melbourne Water's preference is for rounded bridge piers within the creek.
- Bridges should be designed and constructed to sustain the 1% AEP flows relevant to Jacksons Creek.
- The banks and bed of the Creek must be reinstated after completion of works.
- Consideration must be made for requirements relevant to any Environmental Significance Overlays or Biodiversity Conservation Strategy for Growling Grass Frogs relevant to the siting and construction footprint proposed for any bridge crossing; this will require referral to DELWP for review and comment.
- Bridge crossings need to appropriately cater for the passage of native fauna underneath and should allow for light beneath the structure to enable the growth of native flora.

- A separate application must be made to Melbourne Water's Asset Services Team for approval of any existing, new or modified waterway crossing or works on the waterway. Detailed plans must be submitted, which show appropriate rock work, the abutments, setbacks, cross sections of the waterway profile (existing and proposed), hydraulic computations and all other appropriate documentation as requested by Melbourne Water. Detailed terms and conditions will be forwarded for works to be undertaken upon receipt of a formal application for the crossing of the waterway for construction purposes. Please note fees and bonds will be applicable.

Should you require any further information please don't hesitate to contact myself on 03 9679 7183 or [laurence.newcome@melbournewater.com.au](mailto:laurence.newcome@melbournewater.com.au)

Regards,



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