

APA Technical Note - Western Outer Ring Main - Environment Effects Statement

TECHNICAL NOTE NUMBER: TN33

DATE: 27 September 2021

SUBJECT: Jacksons Creek construction timing options update

SUMMARY This Technical Note provides an update to the construction timing options for Jacksons Creek crossing assessed in the Western Outer Ring Main (WORM) Environment Effects Statement (EES).

NOTE:

Background

- 1 The EES included an assessment of the Jacksons Creek crossing construction occurring during March to May which was outside of the Growling Grass Frog active season, the Platypus nesting season and a period of low flow and low variability for the creek.
- 2 As a result of program changes, APA’s preferred construction timing to undertake works in Jacksons creek is now proposed between January and March. This necessitates reconsideration of potential impacts on biodiversity and in relation to surface water.
- 3 The implications of the potential change in construction timing for EES Technical Report A *Biodiversity* and EES Technical Report B *Surface water* and associated environmental management measures (EMMs) are described and assessed in the Expert Witness Statements of:
 - (a) Ms J Comber and Ms K Dalton (Biodiversity) in Section 3.4.2; and
 - (b) Mr A Roberts (Surface Water) in Section 3.3.4.

Construction timing options

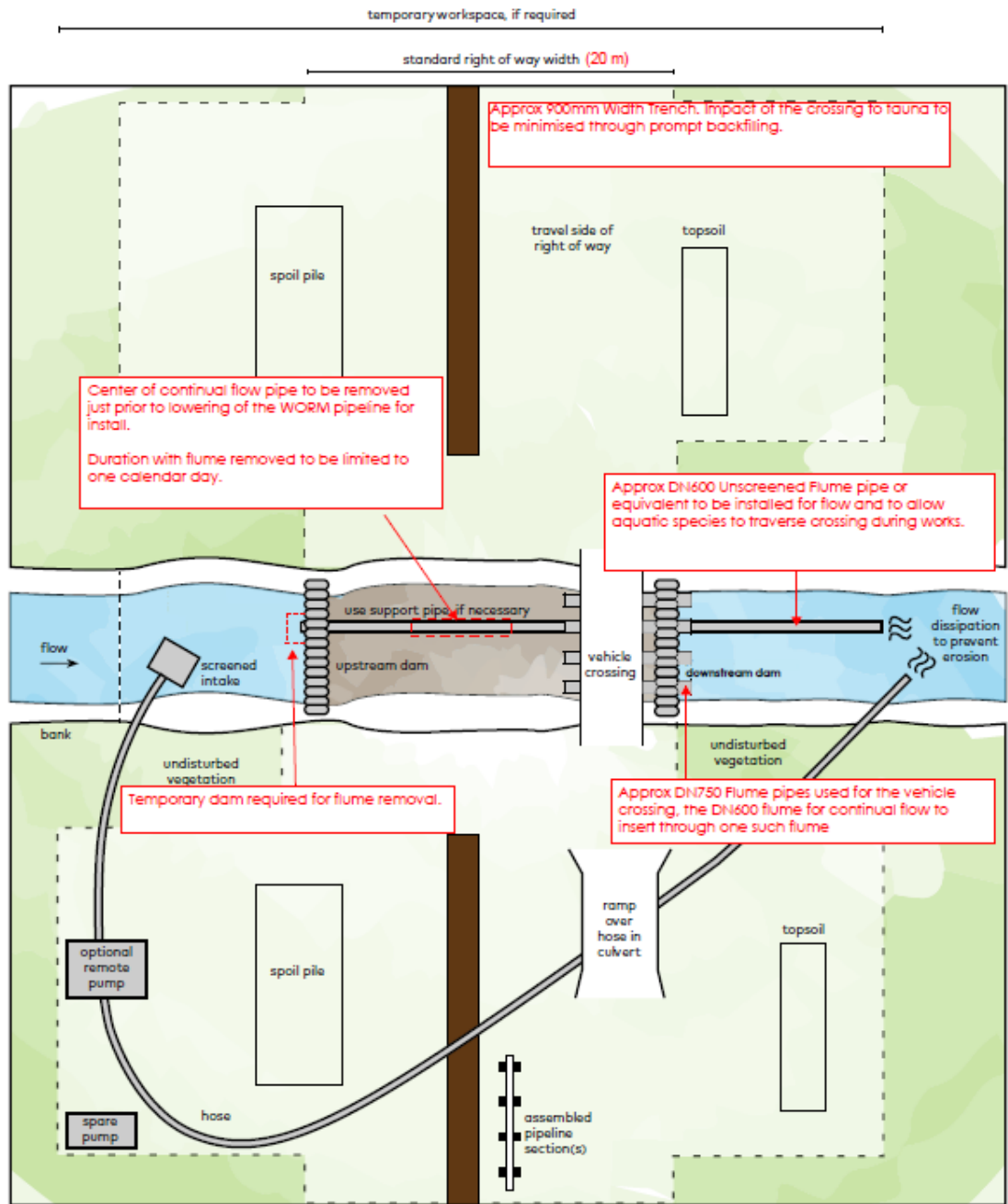
- 4 Table 1 outlines the details presented within the EES (Option 1) and the proposed new creek crossing details (Option 2) for direct comparison. At this stage two windows for construction works are presented as alternative options, as timing has still not been confirmed.

Table 1 Jacksons Creek Crossing Timing

| | Option 1 – Presented within the EES Exhibited Report | Option 2 – Proposed changes to construction timing |
|--|--|---|
| Construction Timeline Constraints | Construction works were anticipated to commence in early March 2022 subject to receiving all approvals based on EES program exhibited. | Construction works timing now anticipated in late April/May 2022 subject to receiving all approvals. Subject to receiving approvals, this pushes construction works into a winter start. With this start date, the preferred construction timing for APA to undertake works within Jacksons Creek is during low flow conditions within the window January 2023 to March 2023. |

| | Option 1 – Presented within the EES Exhibited Report | Option 2 – Proposed changes to construction timing |
|---|---|---|
| General timing | Works within Jacksons Creek scheduled to occur early March to May. 4 weeks – timeframe for works | Works within Jacksons Creek scheduled to occur between January and March. 4 weeks – timeframe for works |
| Timeframe to construct works in Jacksons creek | 4 weeks to complete all works in the watercourse during this period, during low flows. | 4 weeks to complete all works in the watercourse during this period, during low flows. |
| Timeframe to restrict continuous flows through construction area (required to facilitate construction of pipeline) in Jacksons creek | Timeframes for managing continuous flows not presented in exhibited report. | Continual flows will need to be restricted to facilitate installation of the pipeline directly within the creek. Bypass pumping will be in place to allow works to proceed to install the pipeline in the creek for approximately 1 day during the 4 week period. Weather conditions will be assessed prior to works progressing. Continual flows will be maintained within the creek for the remaining duration of all other works. |
| Work methodology (Refer to attached figure) | Details of work methods presented in EES Chapter 3 <i>Project description</i> | The following methods are proposed, subject to weather, ground conditions or other site related issues: <ul style="list-style-type: none"> ■ Pipeline is to be installed up to the creek bank and backfilled promptly, allowing species mobility over land. ■ Removal of vegetation adjacent to bank on southern side: 2-3 days. ■ Access Track installation with approximately 4 x DN750 flume to not impede flow: 2-3 days ■ Dam and continual flow flume installation: 1 day ■ Trenching the crossing: 5 days with rock anticipated ■ Removal of continual flow flume and lowering of pipe into crossing: 1 working day (maximum duration for flow impedence) ■ Backfilling and removal of dam: 1 working day (concurrent with lowering and tie-in welding) ■ Bank reinstatement: 5 days |

5 Figure 1 provides an overview of the amended construction methodology for Jacksons Creek with consideration of undertaking works described in Option 2.



Plan View
(not to scale)

Figure 1 Construction methodology – Option 2