



Artist's Impression

Environmental Impact Statement – Table of Contents & EIS Certificate

Warragamba Dam Raising

Reference No. 30012078
Prepared for WaterNSW
10 September 2021

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EXECUTIVE SUMMARY

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EIS Certificate

Prepared under Part 5, Division 5.2 of the *Environmental Planning and Assessment Act 1979*.

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Proposed development:

Warragamba Dam Raising

Address of the land on which the infrastructure to which the statement relates:

1 Production Avenue, Warragamba NSW 2752
Lot 1, DP87998 and Lot 1124, DP 1159978

Description of the infrastructure to which the statement relates:

Warragamba Dam Raising is a project to provide flood mitigation to reduce the significant existing risk to life and property in the Hawkesbury-Nepean Valley downstream of the dam. This would be achieved through raising the level of the central spillway crest by around 12 metres and the auxiliary spillway crest by around 14 metres above the existing full supply level (FSL) for temporary storage of inflows. The spillway crest levels and outlets control the extent and duration of the temporary upstream inundation. There would be no change to the existing maximum volume of water stored for water supply.

Peer reviewed climate change research found that by 2090 it is likely an additional three metres of spillway height would be required to provide similar flood mitigation outcomes as the current flood mitigation proposal. Raising the dam side walls and roadway by an additional three metres may not be feasible in the future, both in terms of engineering constraints and cost. The current design includes raising the dam side walls and roadway by 17 metres now to enable adaptation to projected climate change. Any consideration of raising spillway heights is unlikely before the mid to late 21st century and would be subject to a separate planning approval process.

The 17-metre raising height of the dam abutments (side walls) and roadway have been considered and accounted for in the EIS and design. The potential maximum height and duration of upstream inundation remains consistent with what was originally proposed in 2016.

The Project would include the following main activities and elements:

- demolition or removal of parts of the existing Warragamba Dam, including the existing drum and radial gates
- thickening and raising of the dam abutments
- thickening and raising of the central spillway
- new gates or slots to control discharge of water from the flood mitigation zone (FMZ)
- modifications to the auxiliary spillway
- operation of the dam for flood mitigation
- environmental flow infrastructure.

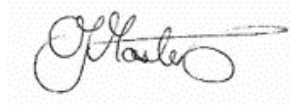
Environmental impact statement:

An environmental impact statement is attached addressing all matters in accordance with Part 5, Division 5.2 of the *Environmental Planning and Assessment Act 1979*.

Declaration:

I certify that I have prepared the contents of this environmental impact statement in response to the Secretary's Environmental Assessment Requirements dated 13 March 2018 and the relevant provisions of Schedule 2 of the Environmental Planning and Assessment Regulation 2000. To the best of my knowledge the information contained in the environmental impact statement is not false or misleading.

Signature:



Name:

Chris Masters

Date:

10 September 2021

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