



Department of
Primary Industries
Office of Water

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Our ref ER21399

Ms Fiona Gibson
NSW Department of Planning & Infrastructure
GPO Box 39
SYDNEY NSW 2001

Dear Ms Gibson

Subject: Additional Information - S75W Modification to Concept Plan of Kirrawee Brick Pit, 566-594 Princes Highway, Kirrawee (MP10_0076 MOD 3) [Our Ref: ER21399]

The NSW Office of Water (Office of Water) has reviewed the additional information that has been submitted for the S75W modification proposal and provides the following comments to assist finalising this assessment, with details provided in **Attachment A**.

Reference is made to the Office of Water's previous submission of 21 February 2011 on the Environmental Assessment (EA) and recent comments on the Modification 3 (MOD 3) proposal.

Further comments:

- As the water body is intended to provide compensatory habitat, wider riparian widths (rather than narrower) are recommended.
- The Department of Planning & Infrastructure should consider the impact of the extent of the boardwalk extending across the water body in determining conditions for compensatory habitat.
- Further clarification as to how recirculation within the water body will be achieved should be provided (it is unclear how perimeter planting will achieve this), along with an assessment of water quality risks of this design.
- Conditions of approval should reflect that changes to the basement car park may require additional assessment of groundwater impacts and management/mitigation measures, and that a fully tanked basement design is recommended.

Should you require further information please contact Janne Grose, Planning and Assessment Coordinator on (02) 4729 8262 at the Penrith office.

Yours sincerely

Mitchell Isaacs
Manager Strategic Stakeholder Liaison
11 April 2014

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**Office of Water's comments on additional information provided
Kirrawee Brick Pit MP10_0076**

Water bodies

The Office of Water advised in its submission on the MOD 3 proposal that the modification appears to reduce the riparian width around the water body, especially south of the pond. The latest updated Landscape Plan (March 2014) also seems to reduce the riparian area when compared with the approved Concept Plan. The updated Landscape Plan appears to provide a narrower vegetated setback along the southern side of the water body. As the water body is intended to provide compensatory habitat, wider riparian widths (rather than reduced widths) are recommended.

The updated Landscape Plan also appears to show that a greater length of boardwalk is now proposed to be located over the water body than is shown in the Approved Concept Plan and the February 2014 version of the S75W modification (MOD3) report (see Figure 3, amended concept plan). Towards the southern side of the pond, the updated landscape plan shows the boardwalk will now extend across the full length of the pond, however the Envelope Plan diagram included with the additional information does not show this. It is recommended details are provided on the potential impact of extending the boardwalk, particularly as the water body is intended to provide compensatory habitat.

The S75W modification (MOD3) report (March 2014 version) notes "*a system will be implemented for the lake to provide recirculation and movement of water within the lake through perimeter planting which will maintain the water quality*".(see page 34). It is unclear how perimeter planting will achieve recirculation and movement of water. Further detail should be provided on how it is proposed to provide recirculation within the water body.

Groundwater

The Office of Water's submission on the Modification 3 proposal sought clarification as to whether the proposed increase in the number of car park spaces will result in any change to basement car park levels, or if the proposed increase in car park spaces relates to ground and above ground car parking.

The Office of Water repeats that changes to the basement car park may require additional assessment of groundwater impacts and management/mitigating measures.

The Office of Water has previously provided advice in relation to groundwater and the requirement for fully tanked basement design and repeats this advice.

End Attachment A