

Nicole Guirguis
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Date: 23 March 2015

Our reference: 6781

Dear Nicole,

Re: Hydrological Model for the wetland area, Lincoln Heath, Point Cook

Ecology and Heritage Partners were commissioned by Australand Property Group, to comment on a hydrological model proposed for a reserve, Lincoln Heath, Point Cook, Victoria.

Semi - aquatic vegetation within an existing ephemeral wetland is proposed to be retained within a reserve located in the south west corner of the proposed Lincoln Heath residential development. With the change in the adjacent land use, there is likely to be change in the hydrological conditions within and adjacent to the reserve. Therefore in order to manage the hydrological conditions and to minimise any ecological impacts on the ephemeral wetland, Australand Property Group are proposing to mimic the pre development hydrological regime, post development.

Waterway Management Consultants (WMC) have completed two reports, a surface water management strategy (WMC 2014) and an addendum to this strategy, entitled Managing the EVC Hydrology Issues (WMC 2015)

In the WMC (2014) report it states the need for appropriate design responses and flagged options available to mitigate any impacts within the ephemeral wetland. In the WMC (2015) report, design recommendations have been provided, using a MUSIC model, which was used to compare existing conditions with proposed conditions.

Based on the WMC (2015) report, the proposed hydrological model, indicates that water can enter and exit the proposed reserve in order to maintain the ecological function of the ephemeral wetland (and vegetation present), and that during the detailed design phase, this model can be utilised to mimic the pre development hydrological regime within the reserve.

If you have any questions about the above, please do not hesitate to contact me.

Andrew Hill

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References.

WMC 2014. Lincoln Heath South Estate, Point Cook Road, Point Cook, Surface Water Management Strategy. Report by Waterway Management Consultants for Australand Property Group

WMC 2015. Lincoln Heath South Estate, Point Cook Road, Point Cook, Addendum To SWMS; Managing The EVC Hydrology Issues. Report by Waterway Management Consultants for Australand Property Group