

ENVIRONMENT RESOURCES AND DEVELOPMENT COURT OF SOUTH AUSTRALIA

No 308 of 2013

BETWEEN

Port Adelaide Residents Environment Protection Group (**Appellant**)

AND

City of Port Adelaide Enfield (**First Respondent**)

AND

OTR 97 Pty Ltd (**Second Respondent**)

Meeting of Experts in Relation to Stormwater and Flooding – 9/5/2013

Present

Mr Ken Schalk (KS)

Mr Dean Nobbs (DN)

Matters about Which the Experts Agree

1. The site is in an area that is subject to inundation in a 1 in 100 year event by stormwater.
2. The site is elevated above much of the surrounding area and is currently at a level of 2.0 to 2.2 mAHD.
3. The site will not currently be inundated in a 1 in 100 year event as a result of stormwater runoff from the upstream catchment due to the large volume of surface storage available and the overflow from this surface storage across Victoria Road being at a level of between 1.5 and 2.0 mAHD.
4. The site is in an area that is subject to inundation due to a 1 in 100 year tide event.
5. The site is outside the area that will be inundated due to a 1 in 100 year tide under current conditions.
6. The finished floor levels of the proposed buildings on the site are above the level of a 1 in 100 year ARI tide with 300 mm sea level rise.
7. The proposed floor levels of buildings on the site are appropriate to provide a 1 in 100 year ARI level of protection from stormwater and tidal inundation.
8. The site will produce an increase in stormwater runoff due to the proposed development.
9. The existing underground stormwater system currently provides a 1 in 1 year level of service, with the threshold of flooding to buildings being at a higher (unknown) average recurrence interval.
10. The proposed upgraded underground stormwater system will provide a 1 in 5 year level of service, with the threshold of flooding to buildings being at a higher (unknown) average recurrence interval.
11. The existing and proposed upgraded stormwater system 1 in 100 year peak flood levels and extent of flooding in the low lying area to the west of Victoria Road are not known.

12. The existing and proposed upgraded stormwater system 1 in 100 year peak volumes of ponded stormwater in the low lying area to the west of Victoria Road are not known.

Matters About Which the Experts Disagree

13. KS considers that the increase in runoff is small relative to the flows produced from the entire catchment and that the impacts of the increase will not be significant. The construction of the proposed stormwater pumping station on Victoria Road will result in a significant reduction in existing flooding in the catchment.
14. DN considers that while the increase in runoff brought about by the proposed development is small, the impact in combination with similar small impacts from future potential development and the low level of service provided by the existing and proposed upgraded stormwater systems, will compound flooding. He considers that the proposed development should therefore be required to produce no impact on flooding for both existing and proposed upgraded stormwater system scenarios and that this could be achieved by providing detention or retention of stormwater runoff in combination with infiltration on site. Further investigation, including determining the ground water level and undertaking infiltration testing would be required to assess the feasibility of stormwater infiltration.

Signed:



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Ken S Schalk

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Dean B Nobbs

12 May 2014