

06/05/2025

Richard Crookes Construction  
Level 14, 558 Pacific HWY  
St Leonards, NSW 2065

**RE: Cumberland Westmead Integrated Mental Health Centre – Flood Mitigation – Domestic Water Supply**

**SSDA: SSD-44034342**

Attn: Marek Sorm

As requested by Richard Crookes Construction (RCC), we write this statement which outlines the revised flood mitigation measures to accommodate the requested 500mm free board for the domestic water supply during an extreme flood event.

The objective of the mitigation approaches is to ensure continued operations, knowing that flood event has maximum level (AHD) of RL18900, and the freeboard level of RL 19400. For the purpose of designing in a mitigation measure for the plant housed in the L0 Plantroom, we are locating all essential (Critical) services plant above the PMF (RL18900), plus free board RL19400, as depicted in Figure 1 below:

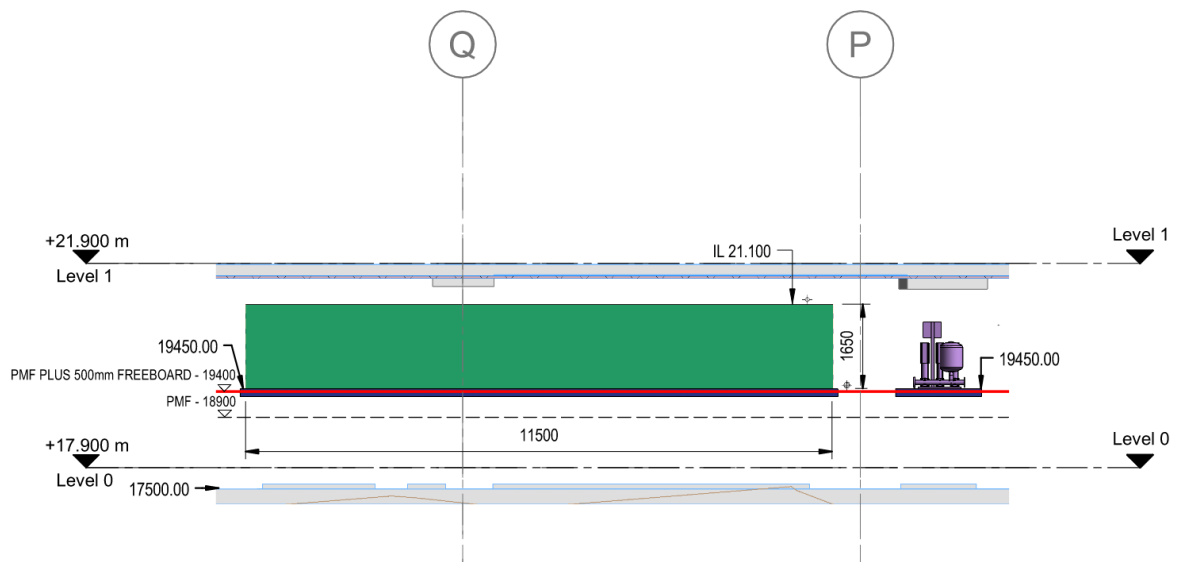


Figure 1: Level 0 – Domestic cold water plantroom - Section

Figure 1 notes:

1. PMF level is RL18900
2. The bold red horizontal line indicates the PMF free board with the additional 500mm (RL19400)
3. RL19450 is the top of the water tank and pressure pump plinth
  - a. Providing a further 50mm above the free board

4. Green box indicates the cold water storage tank, which is a critical component for the water supply to the building
  - a. all located above the PMF + free board
5. Pink / purple equipment located on right hand side is the cold water pressure pump(s), which is a critical component for the water supply to the building
  - a. all located above the PMF + free board

In summary, the above mitigation measures offer a practical solution to providing a reliable water source for the building due the extreme climate condition. This revised flood mitigation approach alleviates the requirement to have room tanking and flood gates, which will no longer be provided.

Should you have any queries or seek clarification of the above, please contact the undersigned.

Yours faithfully,

**ACOR CONSULTANTS PTY LTD**

A handwritten signature in blue ink, appearing to read 'R Edwards', with a long horizontal flourish extending to the right.

Rhys Edwards  
Hydraulic Team Leader | Senior Consultant

[redwards@acor.com.au](mailto:redwards@acor.com.au)

0421 760 925