

From: Stevens, Amy
Sent: 22 May 2019 15:22
To: Glover, Gill <Gill.Glover@havant.gov.uk>
Subject: Re: Dolphin Quay APP/16/00921

Dear Gill,

Site Address: Dolphin Quay, Queen Street, Emsworth

Reference: APP/16/00921

Response:

Thank you for consulting the ESCP, I apologise for the delay in getting this response to you.

Please find below the ESCP's response to the discharge of the following conditions:

Condition 3:

The ESCP have reviewed drawing number 27958-PD130 REV A and have no objection to the discharge of this condition. All habitable accommodation is to be located on the first floor at 5.975 mAOD for plots 1 & 2 and at 6.095 mAOD for plots 3-6. This is in accordance with the EA recommendations that habitable accommodation should be set above the 1:200 year extreme tidal flood level of 4.5 mAOD for Chichester Harbour in 2115, including a 300mm freeboard for climate change.

Condition 7:

The FRA submitted with the original application proposed a section of sea wall around the development, to tie in with a potential wider flood defence scheme. Whilst there is an overarching Flood and Coastal Erosion Risk Management Strategy between Portchester Castle and Emsworth (Environment Agency, 2012), this specific wider scheme was an aspiration within the developer's FRA and has not been progressed since it was developed. At present it is not a scheme that would attract the necessary Grant in Aid funding and is not on the Environment Agency's 10 year Capital Programme of works. Longer term, if any plans came forward this wall could potentially be used as part of a wider flood risk management scheme. However, in the interim, we understand that the habitable spaces of

the development have finished floor levels above the predicted 1:200 flood design height for the next 100 years to mitigate the flood risk.

Notwithstanding this, the ESCP have completed a high-level review of the design information provided for the flood defence wall and flood gates to be constructed as part of this development, focusing on the engineering aspects of the design.

In summary, we have not noted anything in the design that indicates it would not be a suitable design as a flood defence. The design, as shown, appears reasonable and appears to follow conventional design practice comprising piles and capping beam, to dimensions and detailing which might be reasonably expected. The drawings are also to a generally good standard, indicating an appropriate degree of care has been taken in the preparation of the design, although this factor must not be relied upon as an indicator as a suitable design.

In terms of our assumptions to reach this conclusion, please note the following:

1. We have not visited the site, so have not commented on site-specific features or constraints which affect the design or its buildability.
2. We have not carried out any detailed design checks, such as calculations – including structural, ground conditions, hydraulic, etc.
3. We have not considered flood paths adjacent to the site and how the defence ties in at either end.
4. We have not assessed the standard of protection, overtopping or other hydraulic factor including the defence height.
5. The design incorporates several flood gates – we have not assessed their suitability nor operational requirements.
6. We have not considered the site layout or access suitability, including emergency access from the site etc.

Please note that this is a high-level assessment, and provides a general indication of the design suitability only. We would suggest that any proposed flood defence should also be discussed with HBC's Civil Engineering Team Leader to ensure that it is satisfactory from a surface water drainage perspective.

Condition 13:

The ESCP have no comments to make on the Construction Environmental Management Plan in relation to the discharge of Condition 13.

Kind regards,

Amy Stevens StMIEEnvSc
Apprentice Coastal Technician

(Please note, due to university study my normal working days are Tuesday and Wednesday)

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Our website: <http://www.escp.org.uk>

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