



21st June 2021

NRW ref: CAS-146423-Y5N1

Natural Resources Wales
Maes Newydd
Llandarcy
Neath Port Talbot
SA10 6JQ

Dear Ms Roberts,

Thank you for your response on the Proposed Extension and reconfiguration of the existing car park at Mount Surgery, Margam Road, Port Talbot, SA13 2BN. Please see our responses below, we have included your comments in italics for reference.

Flood Risk

The fluvial flood risk to the site has been assessed by utilising the findings of the Port Talbot Harbourside hydraulic model that was undertaken in 2016, however there has been no assessment to confirm that the flows that informed the hydraulic model are still accurate.

The flows were updated as part of the 2016 study by JBA. This was after the release of ReFH2 (2015). The gauge at Marcroft Weir on the Afon Afan was used to improve the QMED estimate for the FEH Statistical method in the 2016 hydrological assessment. A review of QMED at Marcroft Weir on the Afon Afan based on the additional years of gauge data indicate that QMED has not changed significantly since the 2016 study. The 2016 study was reviewed by NRW in 2017. The study was completed within the last five years, and it is not anticipated the design flows will have changed significantly since 2016 based on the data from the Marcroft Weir on the Afon Afan. Given the scale of the development and that the modelling shows the site to only be at risk during extreme events (0.1% AEP and 1% AEP +CC (2116) design events) the use of the existing data is considered appropriate in the FCA. Modelled climate change allowances of 30% remain unchanged since 2016 so we consider this allowance to remain appropriate for use.

Flood water is shown to enter the application site and therefore there is potential for the extension to displace flood waters elsewhere. An assessment of this has not been included in the FCA and therefore we cannot provide you with our comments on this element of the development. However, we note the small scale of the proposed extension and that flood levels are low to the site and refer to your Authority on whether, if proportionate to the scale of the development, a revised FCA is required, which includes an assessment of flood risk elsewhere. We can provide further advice on this matter if consulted by your Authority on an updated FCA.

As the proposed development is 0.01ha (116m²) and flood depths are small, the displacement of flood water elsewhere as a result of the development is anticipated to be very localised and have a negligible impact on flood risk elsewhere.

Regards,

Jack Pordham
Flood Risk Consultant

Property and infrastructure

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