

Ellingham Consulting Ltd

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Residential Development at Custom House Street

(Environment Agency ref AN/2025/137099/01-L01)

The mitigation measures within the FRA prepared to support the proposed development on land adjacent to 39 Custom House Steet are based upon the flood depth at the site being between 1m and 1.6m. This Note has been prepared to provide explanation and further reasoning on how this depth band has been derived.

LiDAR ground levels along the northern boundary and through the site are shown in Figure 1.

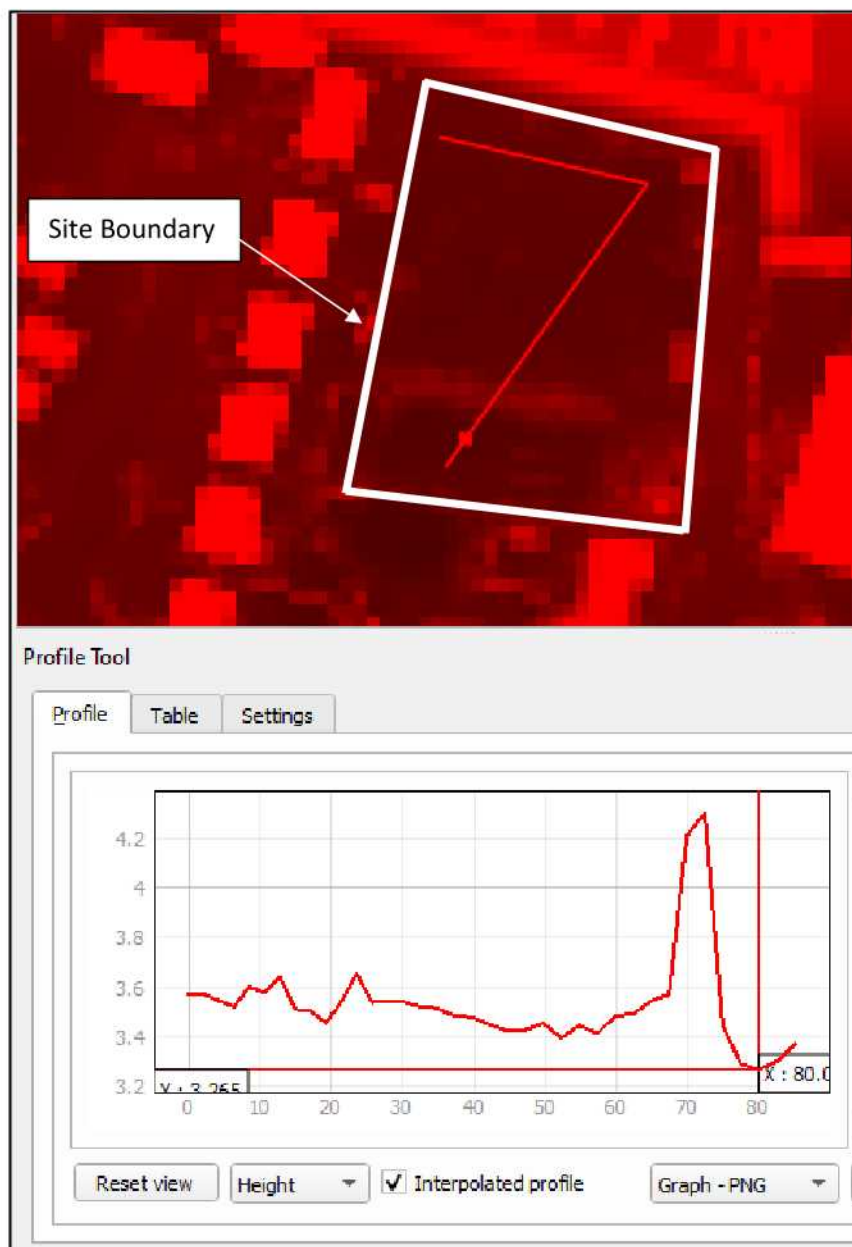


Figure 1 – Site Levels

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Figure 1 shows that ground levels along the northern boundary of the site are typically +3.6m OD with the lowest ground levels of +3.2m OD close to the southern boundary of the site.

The breach hazard map covering the site is shown in Figure 2.

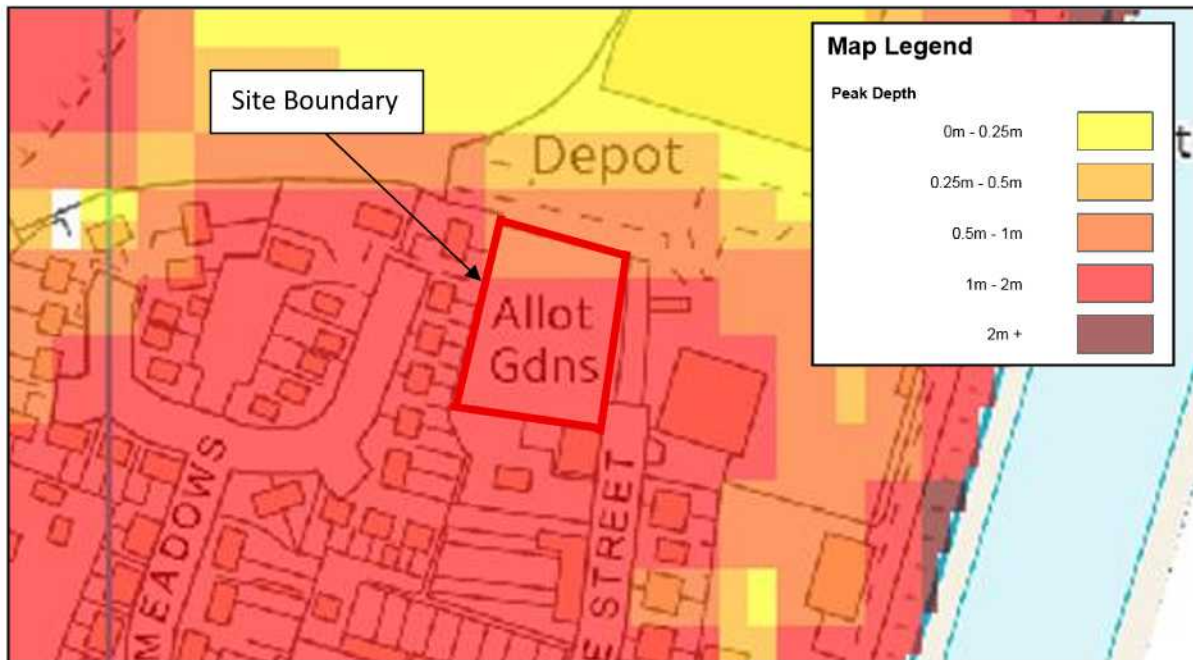


Figure 2 – SFRA 2115 Residual Peak Depth Map

Figure 2 shows that breach depths in the northern part of the site are between 0.5m and 1.0m. Ground levels in this part of the site are +3.6m OD. A conservative estimate of flood level is therefore +4.6m OD. Ground levels close to the southern boundary of the site are +3.2m OD therefore the maximum depth in the lowest part of the site is 1.4m.

It can be concluded that flood depths within the site are between 1.0m and 1.4m.

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