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Our Ref: FCA01F_Addendum 01
Your Ref:

Mrs Jackie Walters,
Development Planning Team,
Natural Resources Wales,
Rivers House,
St Mellons Business Park,
Fortran Road,
St Mellons,
Cardiff,
CF3 0EY

Date: 28th May 2014

Dear Jackie,

HYDRAULIC MODEL REVIEW – PROPOSED DEVELOPMENT AT HERBERT ROAD, NEWPORT

Thank you very much for sending me the NRW response to the FCA that Waterman submitted in support of a Planning Application for the proposed Development at Herbert Road, Newport (EA letter dated 20th May 2014; Ref: SE/2013/117112/03-L01). The response letter highlighted that NRW require that confirmation and clarity is provided for a number of aspects of the FCA before they are satisfied that the risks and consequences of flooding associated with the proposed development are manageable. This letter provides greater detail and clarity in order to address the outstanding issues.

- Confirmation is required from the LPA that the impact of climate change over the lifetime of development should also be applied to the 0.1% probability event as part of the FCA.

The LPA have responded to the NRW response in an email, which is attached at the end of this letter. This confirms that 'the 100 yr lifetime of development must be considered having regard to 0.1% flooding event'. The FCA concludes that the critical mechanism of flooding is the 0.5% probability tidal event in 2114, with a predicted peak tide level of 9.894m AOD (including the upper confidence interval). The 0.1% probability tidal event in 2114 is 9.824m AOD. The Upper Confidence Interval is not applied to the 0.1% probability event. Therefore, it can be concluded that the 'impact of climate change' has also been assessed for the 0.1% probability event as part of the FCA.

- Confirmation is required from the LPA on whether the extant scheme can be considered as the 'baseline scenario' for assessing flooding elsewhere.

The LPA letter appended to this letter confirms that Newport CC acknowledge that the extant scheme approved levels have been used as a baseline scenario, and that they are considered a reasonable baseline scenario for the FCA.

- NRW query the use of 'mean' flood velocities for assessing flood risk at the Site for the undefended scenario, when the 'maximum' flood depths have been quoted as part of the same assessment.

The values quoted for the mean flood velocities and maximum flood depths were derived from the data supplied by NRW. Table 3 in Appendix D provides the Undefended Level data. The mean value was used to provide a generalised description of the undefended scenario. It was considered that the peak values of 2.25m/s related to the point at which flood waters flowed over the embankment and into the Site and was therefore not a true reflection of the flood conditions within the main part of the Site. Additional hydraulic modelling work was carried out by WTD for the defended scenarios; however none was carried out for the undefended scenarios. NRW confirmed in an initial 'scoping' query that a breach event of the defences would not be required and it was assumed that the defended scenario provided a more

'realistic' assessment of the actual conditions. Furthermore, the 'baseline' scenario was taken as the extant scheme, and therefore the flood level data for the current/existing Site conditions are not really relevant to this assessment.

- Clarity is sought as to what levels the proposed road infrastructure within the development will be set at.

Road/external levels will be a minimum of 9.35m AOD, However they need to relate to the proposed slab levels which will be 9.95mAOD. An indicative Levels Design is appended to this letter, which shows finished levels for the proposed development.

- It is requested that the FCA substantiates which means of discharge will be used for the proposed development (unrestricted rate OR via the land drainage ditch in the northern half of the Site)

Discussions regarding the rate of run off will be advanced with Newport CC during the detailed design stage as recommended in the NRW response. However, to clarify the proposed drainage scheme details, it is proposed to discharge surface water at an unrestricted rate into the land drainage ditch.

I hope that the above comments provide further details on the proposed development and that NRW can now be satisfied that the risks and consequences of flooding at the proposed Site are manageable. If you require any further information and/or clarification on any of the details above, please do not hesitate to contact me.

Yours Sincerely,



Laura Clements
Engineer
Waterman Transport & Development Ltd

cc. Jon Wilks – Asbri Planning
Darran Watts - Greenhill

Email from Newport CC RE Climate Change and 'Baseline Scenario'.

Joanne

Many thanks for your email, which is helpful. We will review our advice and respond to you no later than 13th June 2014 (if not before). If this is not agreeable then please let us know.

(Natural Resources Wales officers are on leave and will return work commencing 2nd June 2014; hence giving a reasonable time for myself and colleagues to review).

Kind regards

Jackie

Mrs Jackie Walters

Teitl swydd/Job title: Senior Development Planning Advisor / Uwch Ymgynghorydd Cynllunio

Datblygu

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Ein pwrpas yw sicrhau fod adnoddau naturiol Cymru yn cael eu cynnal, gwella a'u defnyddio yn gynaliadwy, yn awr ac i'r dyfodol.

Our purpose is to ensure that the natural resources of Wales are sustainably maintained, enhanced and used, now and in the future.

From: Joanne Davidson <Joanne.Davidson@newport.gov.uk>

Sent: 22 May 2014 4:25 PM

To: Walters, Jackie; Geraint Nicholas Roberts

Cc: Hunt, Angela

Subject: RE: Natural Resources Wales reply RECONEX 13/1279

Hello Jackie

With reference to NRW's response and questions raised of the LPA in relation to flood risk matters, I confirm as follows:

The LPA confirm that the 100 yr lifetime of development must be considered having regard to 0.1% flooding event. This accords with the requirements of Tan 15 in our view.

We also confirm that we acknowledge that the extant scheme approved levels have been used as a baseline scenario. On the basis of evidence available to us it appears that the Glan Usk School site has been raised above 9.8m AOD and the school is above the 10.4m AOD FFL requirements. Therefore, based upon the information we have, it appears that the School has complied with the original levels condition on the outline planning permission and that these requirements could be implemented in respect of the extant residential scheme (i.e. 9.8m AOD with FFL 600mm above this level). They are therefore a reasonable baseline scenario for the FCA.

I trust this clarifies the matters raised of us and we look forward to your further advice.

Regards

From: Jackie Walters [<mailto:Jackie.Walters@cyfoethnaturiolcymru.gov.uk>]

Sent: 22 May 2014 09:55

To: Geraint Nicholas Roberts

Cc: Angela Hunt

Subject: Natural Resources Wales reply RECONEX 13/1279

Geraint

Please find our representation to the reconsultation 13/1279. We have raised objections to the development as submitted on ecological and flood risk management grounds. Communications have been ongoing with the applicant/consultant, and we still seek to obtain relevant information; which we also request to be obtained, by you, as part of the planning application submitted. From our letter, we also seek confirmation from you as the local planning authority on a number of matters relating to flood risk management.

Should you require further clarity then please contact us.

Kind regards
Jackie

Mrs Jackie Walters

Teitl swydd/Job title: Senior Development Planning Advisor / Uwch Ymgynghorydd Cynllunio Datblygu

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Ein pwrpas yw sicrhau fod adnoddau naturiol Cymru yn cael eu cynnal, gwella a'u defnyddio yn gynaliadwy, yn awr ac i'r dyfodol.

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Ymwadiad

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