

From: Anna Brindle >

Sent: 27 February 2025 07:02

To: Richardson, Joe <Joe.Richardson@wiltshire.gov.uk>

Cc: Alex Smith

Subject: PL/2024/09976 - Land off Southampton Road and Junction Road, Alderbury, Wiltshire

Hi Joe,

Thank you for acknowledging receipt of the recent information sent through for consideration as part of this application.

We have asked our Drainage Consultants to respond to the updated comments from the LLFA, which are summarised below. In short, they confirm that the flow rates on the site are extremely low.

Firstly, the contours indicated on the topographic survey are not accurate to the west of the existing marsh area. We have therefore created a 3d ground model in Civils3D using the raw data from the survey and the attached drawing shows the extent of area that drains into the existing ditch:

- Area currently draining to existing ditch: **1.58 hectares**
- Area draining directly onto Junction Road: 2.56 hectares. 0.289 hectares will be diverted into the existing ditch.

The greenfield rates from the 1.58-hectare catchment already draining into the ditch are as follows:

- Qbar: 0.48 litres/sec/hectare = Existing 0.76 litres/sec
- 1in30yr: 1.1 litres/sec/hectare = Existing 1.74 litres/sec
- 1in100yr: 1.5 litres/sec/hectare = Existing 2.37 litres/sec

We are proposing a maximum of 2 litres/second from the completed development for all returns periods, therefore

- Qbar @ 0.76 litres/sec; there is a 1.24 litres/second **increase**.
- 1in30yr @ 1.74 litres/sec; there is a 0.26 litres/second **increase**.
- 1in100yr @ 2.37 litres/sec; there is a 0.37 litres/second **reduction**.

The greenfield rates from the 0.289 hectares of catchment 02 that currently drains to Junction Road and will be diverted into the ditch. By applying this to the figures

- Qbar: 0.48 litres/sec/hectare = Extra 0.14 litres/sec, so additional flow difference increases to 1.38 litres/sec
- 1in30yr: 1.1 litres/sec/hectare = Extra 0.32 litres/sec, so additional flow difference increases to 0.58 litres/sec
- 1in100yr: 1.5 litres/sec/hectare = Extra 0.43 litres/sec, so additional flow difference increases to 0.06 litres/sec.

These numbers are so low that our Drainage Consultants consider it excessive to undertake a capacity assessment on the receiving ditch. Plus, we cannot bring the proposed peak discharge rates lower 2 litres/second for all storm events.

Therefore, on the basis of this position, and the Outline nature of this application, we would ask that the LLFA agree to this being conditioned, for further agreement at the detailed design stage of the development.

Please can you forward this response and attachments to the LLFA for consideration as part of this application.

Kind Regards

Anna Brindle

Associate

**** Please note my working days are Monday to Thursday****

