

TECHNICAL NOTE

Date: 22 September 2021

File Ref: SG/VL/P21-2315/01TN Vol. 3 of 3

Project: Land at Impington, Histon, Cambridgeshire

Subject: Summary of Flood Risk and Drainage Matters

Ref: SG/VL/P21-2315/01TN Page 1

APPENDIX E

Graham Sinclair

From: Harry Pickford <Harry.Pickford@cambridgeshire.gov.uk>

Sent: 22 September 2021 11:58

To: Graham Sinclair; FR Planning; Sophie Gadsdon

Cc: Jessica Jordan; Tracey Tooke

Subject: RE: Villa Road Impington Cambridge

Good afternoon Graham,

Having reviewed the document and considered this further in light of the email you sent on 8th September, we think the use of the fluvial modelling carried out can be used as a proxy for the surface water. The surface water modelling is probably fairly conservative compared to the fluvial model as it doesn't take into account the culvert to the north and the level of detail on the channel input into the fluvial model.

I hope this is of use, but happy to discuss should you have any further queries.

Kind regards

Harry Pickford

Senior SuDS & Flood Risk Officer T: 01223 715952 | M: 07469 377536 Flood Risk and Biodiversity Team



From: Graham Sinclair [mailto:Graham.Sinclair@createconsultingengineers.co.uk]

Sent: 22 September 2021 11:17

To: Harry Pickford <Harry.Pickford@cambridgeshire.gov.uk>; FR Planning <FR.Planning@cambridgeshire.gov.uk>;

Sophie Gadsdon < Sophie. Gadsdon@createconsultingengineers.co.uk >

Cc: Jessica Jordan < Jessica. Jordan@createconsultingengineers.co.uk>; Tracey Tooke

<Tracey.Tooke@createconsultingengineers.co.uk>
Subject: RE: Villa Road Impington Cambridge

CAUTION: This email originates outside of Cambridgeshire County Council's network. Do NOT click on links or open attachments unless you recognise the sender and know the content is safe. If you believe this email to be spam please follow these instructions to report it: https://camweb.cambridgeshire.gov.uk/spam/

Hi Harry,

Further to our conversation on Monday are you ok to respond on this one today please?

Many thanks,

Graham.

Graham Sinclair Associate Water

Create Consulting Engineers Ltd

15 Princes Street | Norwich | NR3 1AF

T 01603 877 010

M 07734 604 920

From: Graham Sinclair

Sent: 14 September 2021 11:16

To: 'Harry Pickford' <Harry.Pickford@cambridgeshire.gov.uk>; 'FR Planning' <FR.Planning@cambridgeshire.gov.uk>;

Sophie Gadsdon < Sophie. Gadsdon@createconsultingengineers.co.uk >

Cc: Jessica Jordan < Jessica. Jordan@createconsultingengineers.co.uk >; Tracey Tooke

< <u>Tracey.Tooke@createconsultingengineers.co.uk</u>> **Subject:** RE: Villa Road Impington Cambridge

Hi Harry,

Can you come back to us on this one please so we can get everything tied up.

Many thanks,

Graham.

Graham Sinclair Associate Water

Create Consulting Engineers Ltd

15 Princes Street Norwich NR3 1AF T 01603 877 010 M 07734 604 920

From: Graham Sinclair

Sent: 08 September 2021 09:56

To: 'Harry Pickford' < Harry Pickford Harry Pickford Harry Pickford@cambridgeshire.gov.uk; FR Planning FR.Planning@cambridgeshire.gov.uk;

Sophie Gadsdon < Sophie. Gadsdon@createconsultingengineers.co.uk >

Cc: Jessica Jordan < Jessica.Jordan@createconsultingengineers.co.uk >; Tracey Tooke

<<u>Tracey.Tooke@createconsultingengineers.co.uk</u>> **Subject:** RE: Villa Road Impington Cambridge

Hi Harry,

Apologies for the delay in coming back to you on this, we have reviewed internally and it isn't possible to compare rainfall between the two. The issue is the flood modelling has been carried out using a WINFAP analysis which uses a pooling group of similar gauged catchments to estimate a flow for the catchment in question. As this is based off gauged data and scaled accordingly there is no rainfall input into the model so we're unable to get am intensity/total rainfall depth to compare. The surface water flood maps are however based on a rainfall input, however without doing the surface water modelling ourselves it would be difficult to estimate the critical design rainfall here still.

With regards the depressions on site it is clear from our topographic information and the surface water flood maps (which don't show deeper spots over and above the flood modelling done) that there are no localised low spots on the site.

I should also note that the surface water flood maps don't take into account the culvert to the north (beneath the busway) nor would they take the detail of the channel into account like our modelling has, hence why we feel the modelling we have done is more representative of the real world situation.

Therefore without undertaking a surface water modelling exercise I feel we can't provide any further detail so would be grateful of your views on how to progress.

Many thanks,

Graham.

Graham Sinclair Associate Water

Create Consulting Engineers Ltd

15 Princes Street Norwich NR3 1AF

T 01603 877 010 M 07734 604 920

From: Harry Pickford < Harry Pickford@cambridgeshire.gov.uk

Sent: 01 September 2021 10:05

To: Graham Sinclair < Graham. Sinclair@createconsultingengineers.co.uk >; FR Planning

<FR.Planning@cambridgeshire.gov.uk>; Sophie Gadsdon <Sophie.Gadsdon@createconsultingengineers.co.uk>

Cc: Jessica Jordan < <u>Jessica.Jordan@createconsultingengineers.co.uk</u>>; Tracey Tooke

< <u>Tracey.Tooke@createconsultingengineers.co.uk</u>> **Subject:** RE: Villa Road Impington Cambridge

Good morning Graham,

Apologies for the delay in responding to this one. I was discussing the proposals with another member of the team before going on leave.

The general decision we have come to on this is that if the fluvial model is based on the same amount of rainfall across the catchment then we would expect this to mirror the surface water modelling outputs for any areas that are in continuity with the fluvial flooding you have modelled previously. However if there are depressions elsewhere in the site which are picked up on the surface water modelling then these would need to be treated differently. However, I do not think this is the case? Do you think this is something which could be demonstrated around the rainfall across the catchments?

Kind regards

Harry Pickford

Senior SuDS & Flood Risk Officer T: 01223 715952 | M: 07469 377536 Flood Risk and Biodiversity Team



NEWLY UPDATED Surface Water Planning Guidance!

Check out our newly updated Surface Water Planning Guidance document, which can be accessed <u>HERE</u>. This expands on our previous version to assist developers and consultants with producing flood risk assessments and surface water drainage strategies for new developments in Cambridgeshire. The latest version includes a number of updates and additional information on the LLFA's surface water drainage strategy requirements as a statutory consultee for all major development proposals.

PLANS

































