

Simon Davis

From: Paul Cann
Sent: 27 April 2022 16:03
To: Simon Davis
Subject: RE: Planning Re-Consultation on: Y/32/22/DOC

Hi Simon

Once the major/important elements of the surface water drainage scheme have been agreed, then they can finish off the land drainage consent app with myself.

My last email to them is enclosed. I am sure some of this has been addressed as part of the submission through Planning.

Regards

Paul Cann
Principal Drainage Engineer
Engineering Services



T: 01903 737819
E: paul.cann@arun.gov.uk

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From: Simon Davis <Simon.Davis@arun.gov.uk>
Sent: 27 April 2022 15:55
To: Paul Cann <Paul.Cann@arun.gov.uk>
Subject: RE: Planning Re-Consultation on: Y/32/22/DOC

Hi Paul,

Thanks. Therefore I assume we cannot currently discharge this condition until such time as the drainage scheme has been agreed.

Simon J Davis MRTPI
Principal Planning Officer
Directorate of Place



T: 01903 737874
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From: Paul Cann <Paul.Cann@arun.gov.uk>
Sent: 27 April 2022 13:10
To: Simon Davis <Simon.Davis@arun.gov.uk>; Sarah Burrow <Sarah.Burrow@arun.gov.uk>
Subject: RE: Planning Re-Consultation on: Y/32/22/DOC

Hi Simon

Just to confirm that they do not have land drainage consent for the onsite works ie. discharge to watercourse, as this was all dependant on the onsite drainage being agreed with Laura.

There do have land drainage consent for the Section 278 works (improvements to the A259 and junction, etc).

Regards

Paul Cann
Principal Drainage Engineer
Engineering Services



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From: Simon Davis <Simon.Davis@arun.gov.uk>
Sent: 27 April 2022 12:19
To: Sarah Burrow <Sarah.Burrow@arun.gov.uk>
Cc: Paul Cann <Paul.Cann@arun.gov.uk>
Subject: FW: Planning Re-Consultation on: Y/32/22/DOC

Sarah,

I replied to Laura yesterday but she didn't respond and I'm unsure whether she will do so before next week.

Can you or Paul advise?

From: Simon Davis
Sent: 26 April 2022 11:23
To: Laura Gibbons <Laura.Gibbons@arun.gov.uk>
Subject: RE: Planning Re-Consultation on: Y/32/22/DOC

Laura,

Re condition 9, can this be approved as they have a current LDC? I see the point about it might need to be extended but the fact remains that they have an approved one at present and you say that your other point has been resolved.

Simon

From: Laura Gibbons <Laura.Gibbons@arun.gov.uk>
Sent: 26 April 2022 10:02
To: Planning.Responses <Planning.Responses@arun.gov.uk>
Cc: Simon Davis <Simon.Davis@arun.gov.uk>
Subject: RE: Planning Re-Consultation on: Y/32/22/DOC

Key

ADC comments 11/01/22

CR response 25/01/22

ADC comments 08/02/22

CR response 08/02/22

ADC comments 30/03/22

CR response 08/04/22

ADC Comments 26/04/22

Engineers Comments Regarding Condition 8

1. Please supply results of winter groundwater monitoring and winter infiltration testing. Winter groundwater monitoring and infiltration/percolation testing was undertaken on several occasions previously. Details and results are contained within Land Quality Statement submitted as part of original application (ref 13591-CRH-XX-XX-RP-GE-0002 Revision D02), relevant extracts attached to this letter. Previous correspondence between ADC Drainage Engineer and CampbellReith is also enclosed for context.

As per WSCC policy for the management of surface water policy 1- design must follow the hierarchy for sustainable drainage. Locations of groundwater monitoring and infiltration testing have not been provided. It is noted that groundwater was found to peak at circa 1m depth. Shallow infiltration testing was completed and gave rates which do not preclude the use of infiltration. Please supply evidence why the sole use of infiltration is not acceptable here. E.g. a design with infiltrating permeable paving, swales and shallow infiltration basin. A full review of responses to our other comments has not been completed as this fundamental issue must be addressed first before reviewing details. Please find attached layout plan showing location of the boreholes/ percolation test together with details of results -

As noted from the test results, the lowest value is 2.37×10^{-6} m/s, which when the appropriate factor of safety (in this case the lower factor of safety in accordance with CIRIA SuDS Manual is 5 for areas greater than 1,000m²) is applied would yield a percolation rate of 4.74×10^{-7} m/s and at this rate no infiltration system would pass the half drainage time requirements not even for a ten year storm return period - however for absolute clarity, please see attached calculation extract demonstrating same.

It should be noted that percolation testing (despite having been requested by ADC) is not appropriate for use in the design of infiltration drainage systems. Percolation test should only be used for determination of drainage fields for foul drainage (please refer to Building Regulations Part H for guidance on this). CIRIA SuDS Manual C753, Section 25.3 states that infiltration testing should be undertaken following the BRE method and BRE 365 tests have been undertaken for this site and yielded no infiltration. Please see attached for further details relating to those tests.