

{In Archive} Planning Re-Consultation on: Y/184/21/DOC

Bava Sathan to Laura.Gibbons, Simon.Davis

08/02/2022 17:37

Cc: "Lisa Jackson", Andy Higgins

Archive: This message is being viewed in an archive.

Good afternoon Laura and Simon,

I have been forwarded your comments below and respond as follow:

Please find attached layout plan showing location of the boreholes/ percolation test together with



details of results - Percolation Tests Details.pdf

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 $1,000\text{m}^2$) 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.



13591-CRH-XX-XX-CA-C-0006-P1_Proposed Infiltration basin calcs.pdf

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.



Soakaway Tests Details.pdf

As previously noted, the drainage basin (and none of the drainage features) are to be lined - i.e during summer / low groundwater table, the drainage features will allow natural dispersal by infiltration. The drainage basin has been designed assuming worst case scenario that ensures sufficient buffer for drainage in all scenarios and is fully compliant with the requirements under NPPF. In effect there is over provision of storage within the drainage features to cater for the worst case scenario.

I trust that the above and attached document are sufficient to now allow the Council to confirm discharge of the Planning Condition. If however there were any further queries, I would like to extend the offer for a telephone/ video conference call to discuss the matter and resolve it promptly rather than exchange of emails.

Kind regards,

Bava Sathan
Partner

CampbellReith

Raven House,
29 Linkfield Lane,
Redhill, Surrey
RH1 1SS



Begin forwarded message:

From: Simon Davis <Simon.Davis@arun.gov.uk>

Subject: FW: Planning Re-Consultation on: Y/184/21/DOC

Date: 8 February 2022 at 10:47:57 GMT

To: [REDACTED]

Dear Lisa,

Please see further drainage comments below. Should you wish to submit further information then please do so by the 18th February as this will allow me to give the engineer 10 working days to respond. If it is not possible to provide the information by then then I may have to refuse based on insufficient information.

Kind Regards

Simon J Davis MRTPI
Principal Planning Officer
Directorate of Place



T: 01903 737874

E: simon.davis@arun.gov.uk

Arun District Council, Civic Centre, Maltravers Rd, Littlehampton, West Sussex, BN17 5LF
www.arun.gov.uk

To register to receive notification of planning applications in your area please go to
<https://www1.arun.gov.uk/planning-application-finder>

Arun is a CIL Charging Authority. for more information go to www.arun.gov.uk/cil

Sign up to our newsletter [here](#)



From: Laura Gibbons <Laura.Gibbons@arun.gov.uk>

Sent: 08 February 2022 10:00

To: Planning.Responses <Planning.Responses@arun.gov.uk>

Cc: Simon Davis <Simon.Davis@arun.gov.uk>

Subject: RE: Planning Re-Consultation on: Y/184/21/DOC

Engineers Comments Regarding Condition 8

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.
Kind regards,

Laura Gibbons

Drainage Engineer
Engineering Services

Please note that I work Tuesdays 08:00-16:00 for Arun only.



T: 01903 221374

E: laura.gibbons@arun.gov.uk

Arun District Council, Civic Centre, Maltravers Rd, Littlehampton, West Sussex, BN17 5LF

<http://www.arun.gov.uk>

DX 57406 Littlehampton

You can view Arun District Council's Privacy Policy from <https://www.arun.gov.uk/privacy-policy>

Important Notice This e-mail is intended exclusively for the addressee and may contain information that is confidential and/or privileged. If you are not the intended recipient (or authorised to receive it for the addressee), please notify the sender and delete the e-mail immediately; using, copying, or disclosing it to anyone else, is strictly prohibited and may be unlawful. Any views, opinions or options presented are solely those of the author and do not necessarily represent those of Arun District Council. The information in this e-mail may be subject to public disclosure under the Freedom of Information Act 2000, therefore we cannot guarantee that we will not provide the whole or part of this e-mail to a third party. The Council reserves the right to monitor e-mails in accordance with relevant legislation. Whilst outgoing e-mails are checked for viruses, we cannot guarantee this e-mail is virus-free or has not been intercepted or changed and we do not accept liability for any damage caused. Any reference to "e-mail" in this disclaimer includes any attachments.

Click [here](#) to report this email as spam.