

Simon Davis

From: [REDACTED]
Sent: 08 February 2022 17:37
To: Laura Gibbons; Simon Davis
Cc: Lisa Jackson ([REDACTED])
Subject: Planning Re-Consultation on: Y/184/21/DOC
Attachments: Percolation Tests Details.pdf; Soakaway Tests Details.pdf; 13591-CRH-XX-XX-CA-C-0006-P1_Proposed Infiltration basin calcs.pdf

CAUTION: This email originated from outside of the organisation. You should take extra care when clicking links or opening attachments - if you are unsure the content is safe contact the IT Helpdesk before clicking or opening.

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 -

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.

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
ARCHITECTS

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

[REDACTED]

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: "!"

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

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From: L [REDACTED] <[REDACTED]>
Sent: 08 [REDACTED]
To: Plan [REDACTED] <[\[REDACTED\]@arun.gov.uk](mailto:[REDACTED]@arun.gov.uk)>
Cc: Simon Davis <Simon.Davis@arun.gov.uk>
Subject: RE: Planning Re-Consultation on: Y/184/21/DOC