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Save the environment - think before you print.

From: Laura Gibbons [REDACTED]
Sent: 04 August 2020 16:46
To: Planning.Responses <Planning.Responses@arun.gov.uk>
Cc: Simon Davis <Simon.Davis@arun.gov.uk>
Subject: Y/59/20/DOC- Bonhams Field

Dear Simon,

Thank you for consulting us regarding conditions 12 and 14, we have the following comments.

Condition 12- surface water drainage design

1. Groundwater monitoring was completed over the winter. This found that groundwater is located between 1.8m bgl and 0.95m bgl across the site. Yet infiltration tests were completed at 1.8m to 3m depth. And yet shallow infiltration is being proposed at less than 1m depth.
2. Of the infiltration tests that were completed at depth it is clear that three repeat tests were not completed in the winter. With October testing only occurring once at each location, presumably due to the large time taken to drain. One pit failed to drain, and all typically only dropped water level by very small amounts, for example 2cm in 5 hours in TP8. Infiltration rates were extrapolated from the winter testing results, i.e. tests were non-compliant with BRE DG 365 as in all pits the water failed to drop from 75% full to 25% full.
3. The site investigation report states "Based on the results, it is considered unlikely that the encountered ground materials would provide a suitable drainage material for the site"
4. Given points 1 to 3 above it is clear that the infiltration testing completed to date is inadequate and cannot be relied upon for reviewing the design of shallow infiltration features. Winter infiltration testing must be completed at the depth of the proposed infiltrating structures and above peak groundwater level. This testing must be completed fully in accordance with BRE DG 365.
5. It may be that an overflow is required from the system to ensure half drain time requirements are met, if this is the case we would highlight that QBar rates should be based upon the proposed impermeable area positively drained, not the entire site area.

6. Once further site investigation is completed we will provide further comments. Based on a quick overview it is not evident whether the base of permeable paving is above peak groundwater levels, nor that all distribution tanks are at least a minimum of 5m from buildings.

Condition 14- SuDS maintenance

It is not possible to agree this condition until site drainage design is agreed.

If the applicant cannot provide shallow winter infiltration testing results at this time we would recommend the application to discharge these conditions is refused.

We would advocate that the applicant provides details of their proposed ground investigations to us prior to commencement on site to ensure that our requirements are met.

Kind regards,

Laura Gibbons

Engineer, Adur & Worthing Councils



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Worthing and Adur Councils are working in partnership with Arun District Council



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