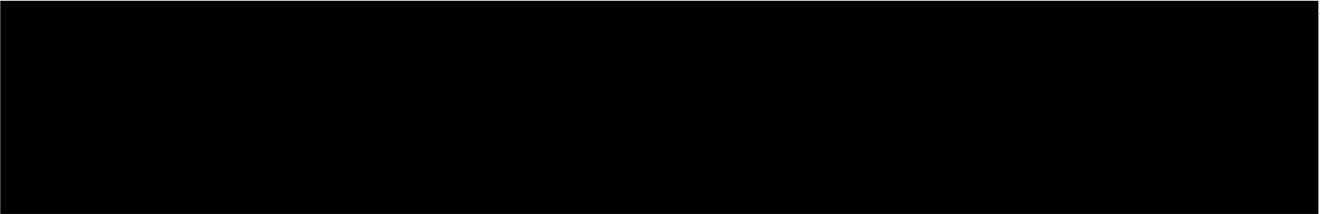




Further Engineers comments.



Simon,

I have received further information from the applicant.

Specialist geotechnical advice has been obtained and this recommends soakaways are located no closer than 8 to 10m from buildings. I have not been able to scale off of the layout provided so have not verified if this is in fact being provided in the latest layout. I will look to obtain a dwg drawing to facilitate this.

I note that Portsmouth Water and the Environment Agency are not objecting to the application but have requested conditions to ensure the development does not pollute the groundwater here. I would note that the ground investigations completed have found chalk at between 1.35m and 2.5m depth at the windowless sample locations. Soakaways are proposed between 1.4m and 2.45m depth, therefore these could be directly into the chalk and provide a pathway for pollutants to the aquifer. Portsmouth Water have indicated that the use of deep soakaways would likely not be supported by them due to the risk of contamination pathways being created.

As the application is seeking to agree a layout we maintain our holding objection at this time as it has not been adequately demonstrated that a drainage solution can be achieved with the proposed layout. We would like to see calculations and a layout with soakaways kept shallower, with a total depth of 1.4m, this would replicate a worst case scenario if it is found that the chalk starts at relatively shallow depths at the proposed locations of soakaways. It must be demonstrated that there is adequate space for this with the required easements before the layout is approved.

If this is provided then we can secure detailed design through our standard conditions and would require winter infiltration testing to be completed at the location and depth of each proposed soakaway to ensure that the requirements of all parties are met (us, EA, and Portsmouth Water).

We also note the following comments which should be addressed in the revised calculations:

1. Infiltration rates should not be applied to the base of trench soakaway features in the revised calculations.
2. Catchment C is modelled as a crate soakaway yet a gravel trench is shown on plan.
3. Impermeable area of Catchment D is inconsistent between plan and calculations.
4. Dimensions of area D soakaway are inconsistent between plan and calculations.
5. Dimensions of area E soakaway are inconsistent between plan and calculations.
6. Dimensions of area H soakaway are inconsistent between plan and calculations.

Kind regards,

Laura Gibbons

Drainage Engineer

Engineering Services

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



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



Good morning Laura,

I trust that this email finds you well.

Please find attached the latest revision of the drainage strategy and supporting calculations.

I also attach a copy of the Soils Limited Consultation Report.

The soakaway locations have been updated to 10m offsets from the proposed buildings to suit the findings within this response.

I trust that this is satisfactory.

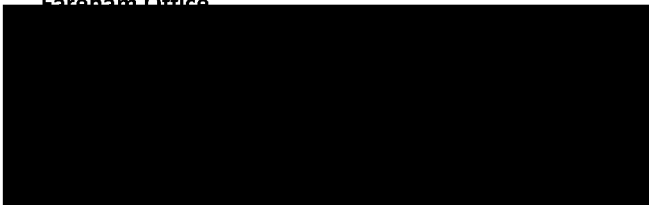
Please do not hesitate to contact me directly, should you wish to discuss further.

Kind Regards,

Claire Pritchard
Senior Technician



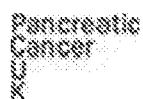
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