

Discharge of Condition 20
attached to Planning Permission A/67/15/DOC
Pound Nursery Angmering
Soakaway Design Briefing Note

The Supplementary Requirements for Surface Water Drainage Proposals issued by Arun District Council confirms that the discharge into the ground (infiltration) is the primary destination for disposal of surface runoff. The requirements are for percolation tests to be carried out in accordance with BRE 365, CIRIA R156 or a similar approved method, and cater for the 1 in 10 year storm event between the invert of the lowest entry pipe into the infiltration structure and the base. For the purpose of design, the percolation rate must be applied to the sides of the infiltration structure only and the rate for the base must be zero.

These soakaway design guides are based on the premise that because the inflow into the soakaway exceeds the outflow some storage volume is required

In the case of Angmering the site is underlain by a gravel stratum that is in the order of 3m thick. Groundwater has never been recorded in this seam. During the course of carrying out ground investigation to determine a percolation rate in this seam no standing water was achieved and an estimate based on experience suggest that a rate in excess of 5×10^{-4} is suggested.

The depth of the top of the gravel layer varies across the site but the seam is consistently 3m in thickness.

The proposal is to excavate a 1m square hole down to 500mm into the gravel seam and install pipework in traditional manner to provide access for maintenance.

In design terms the soakaway must be considered as being approximately 6m deep from the surface having an area that extends at least as far as the site boundary. Therefore in this particular instance outflow will always significantly exceed inflow and no storage is required. Because of this regime no design calculations are required.