

**Additional Surface Water and Foul Water Drainage Information in respect of
Planning Application Ref. DM/26/1225**

**Down Park Place
Turners Hill Road, Crawley Down
W Sussex RH10 4HQ**

Surface Water

Please find attached the infiltration test that was carried out for Down Park Place. The log shows that seepage was observed at approx. 1.1m deep. This observation occurs at a point close to where the Clay becomes too hard to auger, so it can be reasonably concluded that the groundwater is perched upon the heavy clay. This is sufficient evidence to demonstrate to the Drainage Team that soakaways are not a suitable solution at this site because a 1 metre separation between the base of an infiltration system and the ground water level is not achievable.

Since infiltration is not possible, the next suitable method of discharge in accordance with the SuDS Drainage Hierarchy is to discharge to an above-ground surface water body (i.e. a ditch). We propose to limit the discharge rate to the lowest reasonable discharge rate achievable. So, I am confident that this will meet the Drainage Team's requirements.

It is reasonable for the Drainage Team to consider how the ditch is connected to the wider drainage network; we do not have a topographical survey and mapping of the site doesn't go to that level of detail. If this factor prevents the Drainage Team from consenting the proposals, we would recommend that you first walk the route of the ditch to confirm that it reaches a stream, taking photos as evidence, and then invite the Drainage Team to visit the site to show them where the connections exist and where the flows discharge to.

We can provide calculations for the design that we have submitted, but believe the drawing already provided is sufficient and that we assumed that the planning authority will append a pre-commencement planning condition to the permission (should it be granted).

Foul Water

The rainwater harvesting tank can be moved to avoid the package treatment plant and the bioretention basin adjusted to suit.

Again, the ditch that we proposed to connect to has been historically used for the outflow of the foul in this area.

You will require a permit to discharge, but I do not think this is required to achieve planning. But would be required prior to commencement.