

Good Afternoon Alex,

All is well thank you. Please see the response ready to be shared with Mr FitzPatrick.

The entire site has been designed as an impermeable plot of land. The design intention behind this is to damage control an event where the Greenroof system has failed at roof level due to weather or other unforeseen circumstances. In such event, rainwater will enter the private drainage system akin to a typical impermeable/flat roof and cause flooding issues where the flow of water entering the system will be greater than that set by the hydrobrake. A surface water drainage model has been run and the total storage required for up to and including the 1 in 100 year + 40% climate change event is 2.4m³ at 0.8 l/s set by the hydrobrake which is accommodated within the drainage system designed for the site. I have updated this figure onto the SuDS Proforma.

Please note that the volumes in question on the previous pro-forma are those shown for greenfield run-off rates at 0.1 l/s set by a hydrobrake and therefore the storage volumes would be far greater and in turn we do not have the adequate space on this site to accommodate that volume. The pro-forma asks me to enter the storage volume required if the run-off rate were to be set at 0.1 l/s . During the correct operation of the Greenroof; the site discharge will be akin to greenfield run-off @ approx. 0.1 l/s and this discharge will flow through the hydrobrake and thus providing maximum sustainability and reducing the run-off into the public sewers as much as practicably possible. The Greenroof will be increasing the time of concentration for rainwater to enter the drainage system and thus relieving the private drainage system. The Suds Maintenance Plan provides the site users on frequency based maintenance to ensure the sustainability is being met through the lifetime of the development.

I trust this helps to close this condition. Please feel free for the Sustainability/flood team to contact me if anything further is required and I will be sure to provide it immediately.

Kind Regards,

Sanjay Kanadia (B.Eng Hons)

Managing Director