

In response to the comments received from the LLFA under Condition 10, we would advise that Patrick Parsons Engineers has advised the following in response to the queries raised and the additional information requested.

The original drainage strategy submitted to the LLFA as part of the original planning submission produced by Arcadis identified an online attenuation pond connecting to a proposed pumping station which also included the connection of the on-site foul sewer network. This strategy would not have been acceptable to be offered for adoption to the local water authority or the NAV company adopting and providing future maintenance of the proposed sewer network.

With this being the case, we had to consolidate the surface water strategy to have one outfall from the development to the northwest of the site and re-route the drainage runs within the road network to prevent significantly deep sewers to the south of the development. Due to layout constraints and topography constraints, it proved very difficult to have the attenuation pond as an on-line suds feature, as the position of the pond was some distance away from the proposed outfall. Our only option to use the pond was to have this as an offline form of attenuation to store the higher storm return period surface water run-off, with the lower storm return period flows being attenuated in over-sized pipes and cellular storage and with flows from the site limited to the green field run-off rate of 5.7 l/s.

The latest Causeway PDS Flow calculations provide the critical storm simulation results for the 1 in 2, 30 and 100 + 40% climate change return periods.

On the basis of the above we would be grateful if you could please forward to above statement and SWS calculations to the LLFA with regards to Condition 10 and as noted we will come back to you shortly with regards to your drainage officers comments under Condition 9.