

HGH Consulting
45 Welbeck Street
London
W1G 8DZ

Date: 26 April 2021
Reference: L2466

Attention: Alfie Yeatman

Dear Alfie,

Bridge House, Oxford Road, Uxbridge UB8 1HS

Thank you for your email regarding the drainage strategy at Bridge House and your confirmation that the discharge rates are considered acceptable, as the statement below.

"The Council's Flood and Water Management Officer has reviewed the submitted details and stated that the proposed discharge rates are considered acceptable, however it is not clear that this is the most sustainable design, and that more sustainable options cannot be included. Are you able to provide additional information clarifying this point?"

You requested confirmation that the current drainage proposal complies with the sustainable urban drainage hierarchy. I respond below:

The Hierarchy of Drainage

The National Planning Practice Guidance details the hierarchy of drainage for sustainable urban drainage with the aim to discharge surface water run-off as high up the drainage hierarchy, as reasonably practicable:

1. into the ground (infiltration);
2. to a surface water body;
3. to a surface water sewer, highway drain, or another drainage system;
4. to a combined sewer.

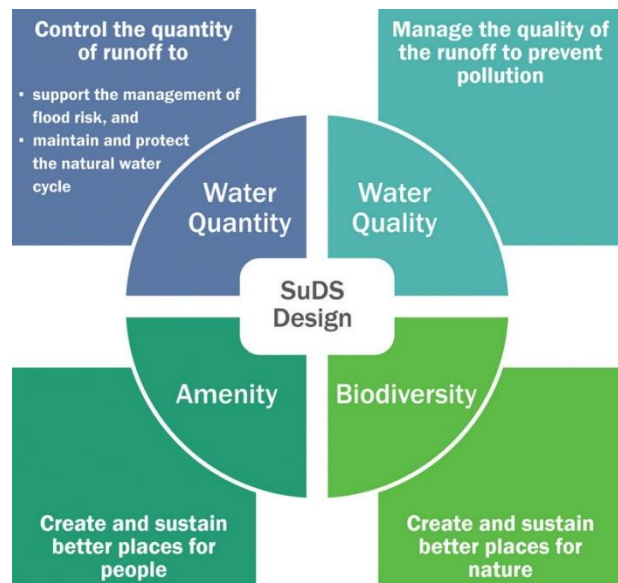
Ground Infiltration

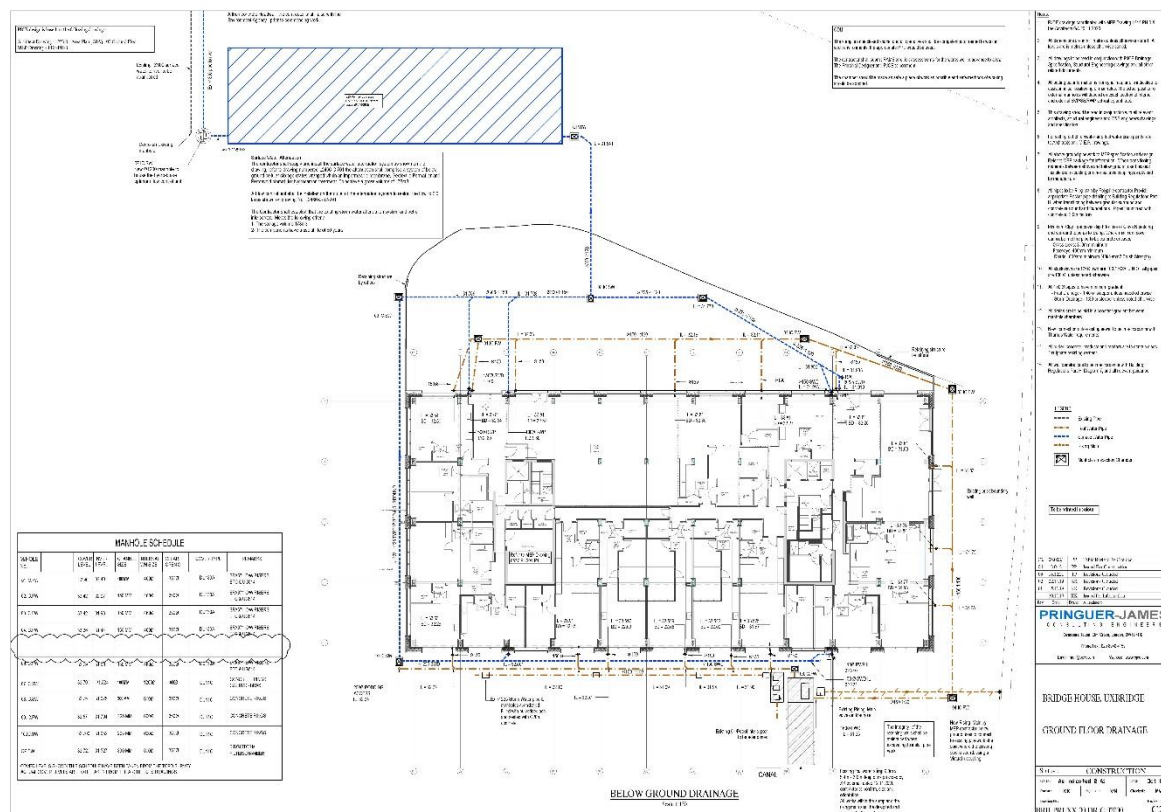
Ground infiltration tests for deep borehole surface water discharge have been undertaken on the site and has shown the scheme to be unviable.

Surface Water Body

The site is straddled by the River Colne, in the north and the Canal in the south. The most appropriate discharge for the surface water is to the adjacent River Colne.

The proposed surface water discharge is to the River Colne via a 178m³ attenuation with a permavoid biomat. This is detailed on drawing BRH-PRJ-XX-00-DR-C-07000, extract below.





Other discharge alternatives are as follows:

Surface Water Sewer or Combined Sewer

The discharge to other surface water sewers was considered but given the River Colne is immediately adjacent the site, this alternative was considered as lower on the National Planning Practice Guidance details the hierarchy of drainage and rejected.

I trust this clarifies the hierarchical process considered in preparing the current drainage discharge and that this meets with the Planning requirements.

Yours sincerely

Sean Pringuer-James
(for Pringuer-James Consulting Engineers Ltd)