

**Consultation Response from KC,
Lead Local Flood Authority**

2024/92806 Land at, Penistone Road, Fenay Bridge, Huddersfield, HD8 0AW

Discharge of details reserved by conditions 20 (surface water discharge), 21 (flood routeing) and 31 (grass-crete and batter maintenance) of previous permission 2022/93154 for erection of 68 dwellings with associated access, parking, open space, landscaping and infrastructure works (including installation of surface water attenuation tank)

Date Responded: 17th April 2025

Responding Officer: Paul Farndale

Responding Ref: 3

Condition 20 – Drainage/Attenuation Details

We recognise that submerged outfall has been included in the simulation.

An M5_60 figure of 19 has been used as per condition.

A spill chamber has been included immediately upstream from the outfall.

A 104 Technical Approval letter from a NAV has been included following our question of connection and outlet levels to the Polystorm R Tank.

It is noted that the Polystorm R tank should be at a minimum depth of 0.5m

However, there are multiple discrepancies between the measured hard standing area noted on an impermeable area drawing and those listed in the hydraulic design model.

In addition to the above, the impermeable area drawing is erroneous. As an example, around the green shaded area for road network and plots 17 and 18. Both the key and the hydraulic model show no hardstanding contributing to 1.005 (S6 to S7). However, the drawing showing private drainage layout clearly shows the majority of the plot's area draining to this very leg. Both plots are coloured green, but part is connected to 1.004 (S5-S6) and the roads of the same colour drain to 3 different legs of sewer not 1.

A clear check of all drainage should be made before resubmitting new impermeable area plans with key and update hydraulic modelling.

The time of entry for a fully designed model should not included 8-12 and 12-16 minutes. This may be relevant if only the tank was in a provision design an no upstream sewers. Kirklees will accept 0-4 minutes from roads and 4-8 from properties. In all likelihood, for a fully designed system with points of entry close to each leg, time of entry will be low.

A half drain time will need to be calculated for revised simulation to test for compliance. Errors are indicated on the current simulation.

The maintenance plan for the surface water system appears to be an installation plan only. How to minimise the risk of silt build up within a system should be addressed. The replacement period for Polystorm R would be 25 years unless a BBA certificate promotes a longer lifespan, as housing is deemed to last over 100 years, replacement periods have to be built in as routine camera inspections are impossible for this product and the membrane seal. This needs to be included should final adoption not take place.

We are happy that maintenance plans for a management company can cease upon adoption.

The tank and flow control manhole and flap valve should be included in any maintenance plan which should be bespoke to the site. We do however promote the CIRIA guide for SUDS as a starting point when examining typical maintenance advice for crate storage. A flow control, if removed for maintenance should have the neoprene seal replaces. All pipes and manholes will need inspecting and cleaning. We expect to see an itinerary and schedule of all tasks. The 600mm pipe under the existing highway should be highlighted due to specific issues for our section 38 team.

A revised headwall drawing has not been submitted.

We do NOT recommend that this condition be discharged at this moment in time.