

**Consultation Response from KC,
Lead Local Flood Authority**
2023/92033 Hoyle Ing Dyeworks Former, Hoyle Ing, Linthwaite, Huddersfield, HD7 5QS
Erection of 6 bungalows with ancillary staff area (within a Conservation Area)
Date Responded: 29/08/2023.
Responding Officer: Martin Stephenson
Responding Ref: 1
Documents reviewed by the LLFA:

Highstone:

- Drawing Ref: HA-MRLWPH2-P004, Drainage Strategy, Rev – dated 27/06/23.
- Drawing Ref: HA-MRLWPH2-P002, Drainage Strategy, Rev A dated 26/07/23.

Drainage Summary:

The LLFA confirms acceptance of the proposed allowable surface water discharge rate of **3.5l/s** and the proposed discharge point into the existing Yorkshire Water 225mm dia surface water sewer (subject to YW acceptance).

The size of the attenuation tank should be designed to retain all surface water flows within the site and ensure no flooding of the curtilages of existing or proposed buildings for the critical **1 in 100 year** (plus **30%**) rainfall event. The design vertical loading on the geocell tank should be specified on the construction issue drawings and should be sufficient for the estimated maximum vehicle wheel loading. The sizing of the required storage volume should be confirmed using MicroDrainage (or similar) hydraulic calculations to be submitted following the detailed design stage.

At the next stage, the developer should submit the proposed **Maintenance Strategy** for the surface water drainage within the site including a **Maintenance Schedule** and confirming which organisation will be responsible for the maintenance for the life of the development or until adoption by the statutory water authority.

The developer should also submit details on how surface water run-off will be controlled during the construction period to limit the discharge of silts onto the adopted highway and restrict surface water flow rates to **2.5 l/s per ha** for the **1 in 2 year** rainfall event.

Kirklees Flood Management & Drainage as Lead Local Flood Authority (Statutory Consultee) can SUPPORT this application SUBJECT to appropriate recommended conditions as set out below provided the above comments are satisfactorily addressed in the detailed design.

Suggested Drainage Conditions:
DR01 Drainage Details

Development shall not commence until a detailed design scheme detailing foul, surface water and land drainage, (including agreed discharge rates with the LLFA indirectly or directly to watercourse, attenuation for the critical 1 in 100 + 30% climate change rainfall event, attenuation construction details /design, plans and longitudinal sections, hydraulic calculations, phasing of drainage provision) has been submitted to and approved in writing by the Local Planning Authority. The scheme shall include a risk assessment and method statement, in accordance with CDM Regulations 2015, for access to and into the attenuation structure, and an itinerary of maintenance tasks with schedules. No part of the development shall be occupied until such approved drainage scheme has been provided on the site to serve the development or each agreed phasing of the development and retained thereafter.

DR07 Overland Flow Routing

The development shall not commence until an assessment of the effects of 1 in 100 year storm events, with an additional allowance for climate change, blockage scenarios and exceedance events on drainage infrastructure and surface water run-off pre and post development between the

development and the surrounding area (both upstream and downstream of the development), has been submitted to and approved in writing by the Local Planning Authority. No part of the development shall be brought into use (dwellings shall not be occupied) until the works comprising the approved scheme have been completed and such approved scheme shall be retained thereafter.

DR10 Construction Phase Surface Water Flood Risk and Pollution prevention plan.

Development shall not commence until a scheme, detailing temporary surface water drainage for the construction phase (after soil and vegetation/site strip) has been submitted to and approved in writing by the Local Planning Authority. The scheme shall detail:

- phasing of the development and phasing of temporary drainage provision.
- include methods of preventing silt, debris and contaminants entering existing drainage systems and watercourses and how flooding of adjacent land is prevented.
- the strategy shall include a plan showing the location of the attenuation storage and supporting calculations, which shall be based on the critical 1 in 2-year storm. It should be assumed that once the site has been stripped that the percentage run-off will be 100 %. The maximum allowable off-site discharge rate shall not exceed 2.5 litres per second per ha, unless otherwise agreed with the LLFA.

The temporary works shall be implemented in accordance with the approved scheme and phasing. No phase of the development shall be commenced until the temporary works approved for that phase have been completed. The approved temporary drainage scheme shall be retained until the approved permanent surface water drainage system is in place and functioning in accordance with written notification to the Local Planning Authority.

Section 106 Unilateral Undertaking

In order for the LPA to fulfil their obligation to ensure the maintenance and management of surface water drainage systems for the lifetime of the site, a unilateral undertaking to set up a management company to carry out an approved maintenance and management scheme; including access to and into any structure in accordance with CDM regulations 2015; and an itinerary and schedule of maintenance and management tasks. Such an undertaking can cease if and when the infrastructure is formally adopted by the Statutory Undertaker and/or Highways Authority