

Groundwater Ingress Management Statement – Century Gardens, Tars Farm, Barnham

Barratt David Wilson (BDW) Southampton proposes to manage groundwater ingress during the excavation of the attenuation basin at the Century Gardens development in Barnham in accordance with best practice and regulatory guidance.

In line with the Environment Agency's Regulatory Position Statement (RPS 261) titled *Temporary dewatering from excavations to surface water*, BDW Southampton confirms the following:

- **Duration:** Dewatering activities will be temporary and will not exceed the 3-month period specified in the RPS.
- **Volume:** The volume of water abstracted will remain below the 20 cubic metres per day threshold, thereby not requiring an abstraction licence. A meter will be fitted to the pump to ensure this is adhered to. The pump will also be restricted to 14 l/s, in line with the greenfield run-off rate as identified in the FRA.
- **Water Quality:** Only uncontaminated water, primarily rainwater, perched groundwater and groundwater that has ingressed into the excavation will be discharged.
- **Discharge Location:** Discharges will be made to surface water in accordance with the RPS, and not to groundwater or foul sewer systems.
- **Record Keeping:** BDW will maintain records for a minimum of **two years** to demonstrate compliance with the RPS, and will make these available to the Environment Agency upon request.
- **Environmental Protection:** Measures will be taken to prevent pollution, erosion, or flooding. These measures will include the below:
 - Contamination from fuel or other construction machinery related sources will be closely monitored through the excavation and formation process. The risk of pollution from sources as listed above has been deemed as low.
 - Overland flows and run off generated from rainwater/storm events will be diverted from the area by way of bunds and channels formed around the working area
 - Management at source as outlined above will prevent the contamination of the rainwater and groundwater that forms within the excavation thus on pumping and discharge there is no risk of pollution of the wider watercourse network.

Silt Management Strategy

To ensure that discharged water is free from excessive sediment, BDW Southampton will implement a two-stage silt control system:

1. **Silt Tank:** Water will first pass through a silt tank to allow settlement of suspended solids.
2. **Silt Bag:** Following the tank, water will be filtered through a silt bag positioned at the outfall to capture finer particles.

Additionally, the outfall will be directed overland prior to entering the existing watercourse network. This overland flow path will provide further opportunity for natural filtration and energy dissipation, reducing the risk of erosion and improving water quality before final discharge.

BDW Southampton is committed to ensuring that all groundwater ingress and dewatering activities are carried out responsibly, safely, and in full compliance with national guidance.