

# Stocks Reservoir JS13

## Outline Method Statement

To be read in conjunction with impounding licence application and drawings.

### Dates:

- **Site establishment**           **04/07/22**
- **Start wave wall**               **19/07/22**
- **Start core raising**           **10/08/22**
- **Start weir raising**           **19/01/23**
- **Completion**                   **29/03/23**
- **1m draw down in place**   **19/07/22 to 29/03/23**

### Site Establishment and Preliminary Works

1. The existing site compound which is in use for works at Hodder Water Treatment Works (WTW) will be used for main welfare and general materials storage.
2. A satellite welfare unit / storage area will be set up for works directly related to these works. This will be located to the west of the embankment.
3. Access to the satellite welfare unit / storage area & working area will be from the existing road and gate to the west of the reservoir embankment.
4. Public footpath demarcation/fencing will be erected to ensure segregation of the public. A banksman will be in attendance for all plant & materials movements in and out of the working area. The public footpath will be kept to the 'Stocks Loop' route and the public will not be permitted to walk to the crest for the duration of the works.
5. The reservoir will be drawn down to the agreed water level (approx. 1.0m below existing weir level, but to be agreed). A "traffic light" marker system will be erected to ensure trigger levels are visible, requiring the works to be suspended should the water level reach "red".
6. All plant will use bio-degradable oil.
7. All plant refuelling will occur in the site compound at the WTW or within the satellite compounds, not on the reservoir embankment.
8. All plant will receive a spill kit and be checked prior to use.

### Wave Wall and Core Raising

Although the wave wall and crest raising is not part of this impoundment licence application, for interest we have included a brief method statement. This work will take place prior to the raising of the weir.

#### Wave Wall

1. The existing wave wall coping blocks will be cleaned with a wire brush to remove any dirt, moss etc.
2. A bed of mortar will be placed on the existing coping, around 2 sets of levelled shims.
3. A single pre-cast concrete block will be lifted using an 8t excavator and placed on the mortar bed. Any excess mortar will be pointed to leave a good clean joint.
4. Lifting holes in the pre-cast blocks will be filled with mortar.
5. This will continue along the wave wall, block by block, beginning at the west end and finishing at the east end.
6. Any loose or missing mortar joints below top water level (TWL) on the existing wave wall (both upstream and downstream face), will be re-pointed.

#### Core

7. 5m long sections of the crest over the core will be excavated using an 8t excavator, beginning at the east end and working westwards.
8. The exposed concrete surface will be cleaned.
9. Dowel holes will be diamond drilled at the correct centres and a reinforcing dowel bar grouted in.
10. Formwork rails will be erected for the top third of the core extension to ensure a good finish, and a pre-pour inspection will be carried out.
11. Concrete will be poured to raise the core to the finished level.
12. The concrete will be cured and then backfilled with suitable as dug material.
13. Construction joints in the core will be formed every 5m and expansion joints every 15m, in keeping with the previous core raising works.

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### **Overflow Weir Raising**

1. Materials including loose stone / pre-cast blocks / access scaffold will be transported across the reservoir embankment on the "Stocks Loop" path and over the bridge, using a tracked dumper / flatbed vehicle. Blocks / materials will be unloaded & stored adjacent to the weir using an 8t excavator. Two banksmen will be in attendance during the transportation of blocks, one to control plant movements and one to ensure members of the public are kept clear.
2. A temporary access will be constructed at the north end of the weir to form a ramp down to, and over, the existing weir. This will be undertaken with loose stone / timber sleepers / boards.
3. Access scaffold will be erected within the tumble bay directly adjacent to the weir.
4. The existing weir wall coping blocks will be cleaned with a wire brush to remove any dirt, moss etc.
5. A bed of mortar will be placed on the existing coping, around 2 sets of levelled shims.
6. A single pre-cast concrete block will be lifted using an 8t excavator and placed on the mortar bed. Any excess mortar will be pointed to leave a good clean joint.
7. Once the mortar has cured, the existing coping blocks will be diamond drilled through the holes in the new pre-cast blocks. The hole will be cleaned, and a reinforcing dowel bar grouted in.
8. This will continue along the wave wall from the north end, working south.
9. Joints on the raised section of the weir wall will match joints on the existing coping blocks.

### **Reinstatement works**

1. Reinstatement works will start upon completion of the weir wall raising.
2. Starting at the east end of the crest, topsoil will be imported to fill any low spots in the crest surface, to a level of 183.885.
3. The topsoil will be seeded at an appropriate time of the year.