

TECHNICAL NOTE

JBA Project Code 2025s0768
Project Title Stourhead
Subject Buildability Statement
Client National Trust



Document control

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1 Background

Stourhead Garden Lake is located at the National Trust Stourhead Estate, approximately 800m west of Stourton, Warminster. The lake is designated as a High Risk Large Raised Reservoir under the Reservoirs Act 1975. It is classified as category A according to Floods & Reservoir Safety 4. It is currently experiencing significant seepage issues through the embankment dam. The National Trust (Client) have engaged JBA Consulting (JBA) to undertake the detailed design of the scheme.

Figure 1-1 provides an overview of the works. The works consist of a ~50m long line of piles through the crest of the embankment to sever seepage pathways. Earthwork remediation of existing sinkholes and reinstatement of gravel pathway. Figure 1-1 shows the scheme

This document sets out all of the expected operation and maintenance activities (both planned and unplanned) of each component. This document should be read in conjunction with the scheme Buildability Statement, including the drawings for the scheme.



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Commented [RE1]: Be good if the plan could identify the key work activities in colour eg piles sinkholes and path

Commented [SW2R1]: Discussed

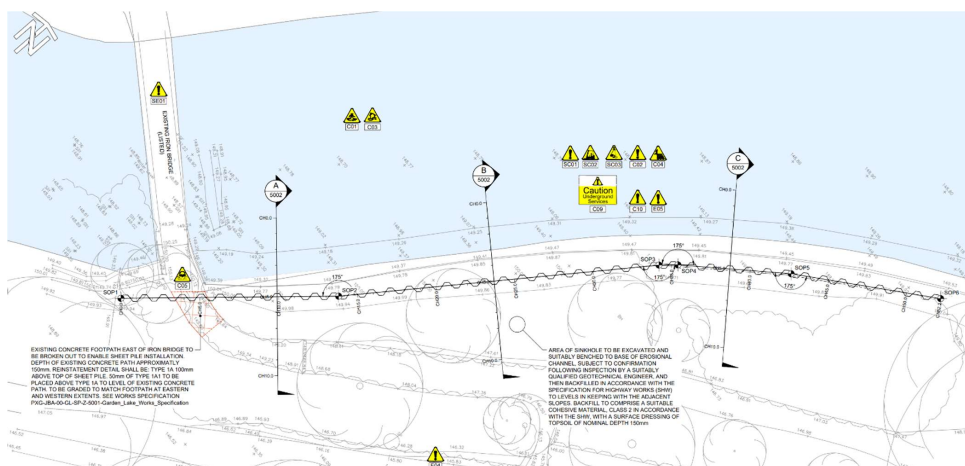


Figure 1-1: Scheme Overview

The sheet pile wall is approximately 50m long, with the top of wall at 149.7mAOD, beneath the crest of the embankment (~150mAOD). The piles are 4m long and are GU13N.

Not applicable as the sheet piles have no moving parts and top of pile is beneath ground level.

There is no requirement for planned maintenance as the structure is buried. However, inspections undertaken by a Supervising Engineer as per Section 12 of the Reservoirs Act (minimum 1 per year) and the inspection as per Section 10 undertaken by an All Reservoirs Panel Engineer (minimum 1 per 10 years) will record any defects to the area.

Unplanned maintenance may be required if the crest were to overtop during a flood event, a visual inspection of the crest should be undertaken and crest reinstated in areas if required. Repairs should tie into and match existing lines and levels.



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2.4 Inspection

The sheet piled wall has a design life based on expected conditions so it is expected that the All Reservoirs Panel Engineer in the Section 10 Report will require a check of the sheet pile condition and thickness at a time and frequency TBC, this would involve excavating adjacent to the sheet piles to expose them, before recording the condition and measuring the thickness.

3 Embankment

3.1 Planned & Unplanned Operation

Not applicable; the flood embankment is designed to form a passive defence during flood events.

3.2 Planned Maintenance

The following activities are expected to be undertaken to maintain the condition of the flood embankment:

- Grass covered areas should be mown to maintain a good sward with length no greater than 100mm.
- Saplings with a diameter of less than 100mm should be removed.
- Vegetation should be trimmed to be no more than 1.2m above ground level

3.3 Unplanned Maintenance

The following activities will be required to maintain the condition of the flood embankment

- Repair of damage to the embankment due to flood events overtopping. Embankment repairs should tie into and match the existing materials. Repairs should tie into and match existing lines and levels. It is expected that the Supervising Engineer would be notified if such an event occurred, and design and supervision of the remedial works by a Qualified Civil Engineer (QCE) may be required.

3.4 Inspection

- The inspections undertaken by a Supervising Engineer as per Section 12 of the Reservoirs Act (minimum 1 per year) and the inspection as per Section 10 undertaken by an All Reservoirs Panel Engineer (minimum 1 per 10 years) will record any defects.

4 Pathway

4.1 Planned & Unplanned Operation

Not applicable

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4.2 Planned Maintenance

There is no requirement for planned maintenance

4.3 Unplanned Maintenance

The following activities will be required to maintain the condition of the pathway:

- Scouring and / rutting may occur due to inclement weather, overloading or the embankment being overtopped. In these events the path will need to be reinstated to form a safe access route for visitors.

4.4 Inspection

It is expected that the path will be used at least weekly by the client site team, and any defects reported and addressed (temporary closures / diversions may be put in place).