



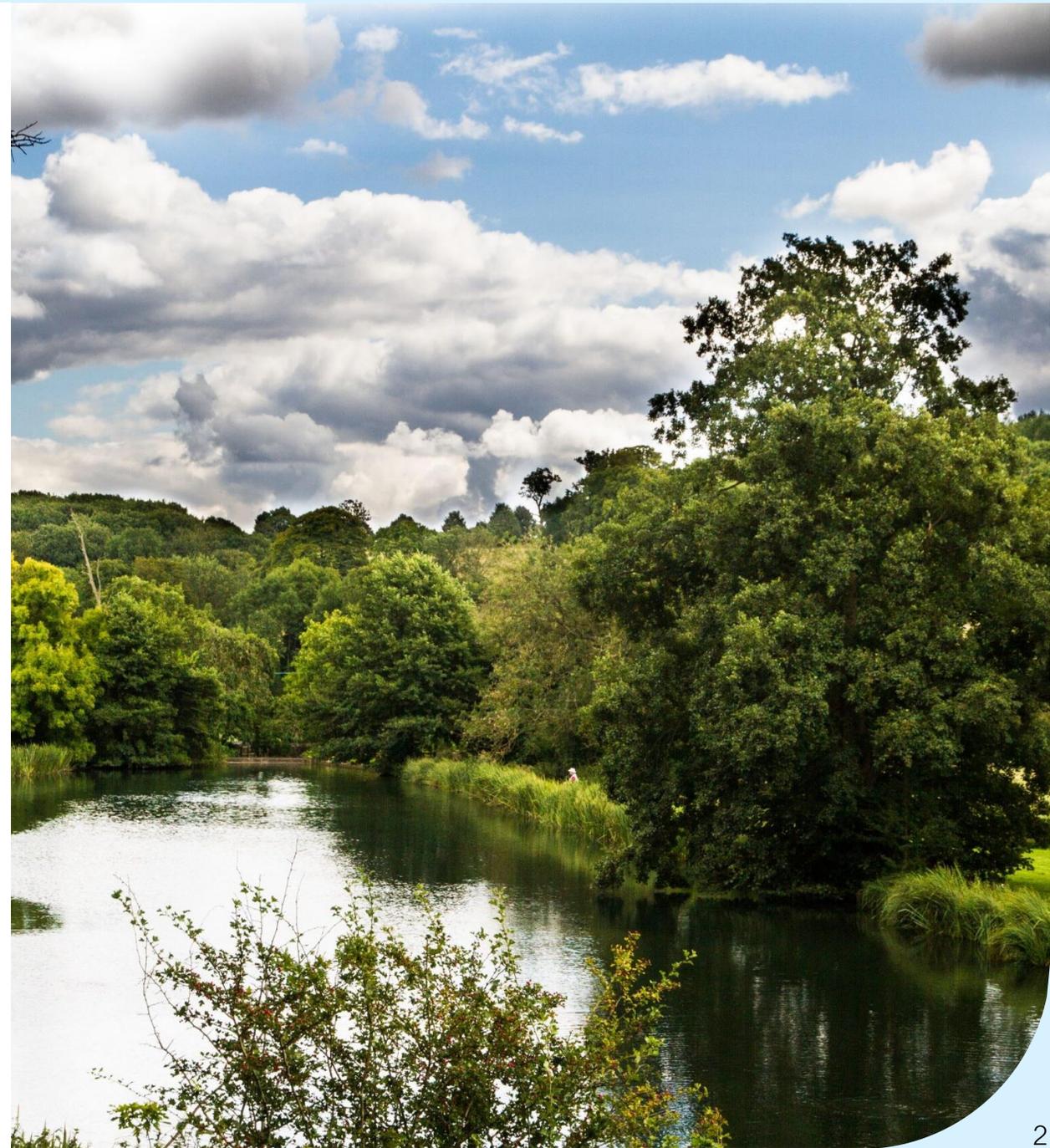
# Buckland Water Booster Station Customer Engagement Session

5<sup>th</sup> December 2023

Zoe Filer & James Fletcher

# Agenda

1. Introductions
2. Project Background & Location
3. Overview of Project Scope
4. Buckland Water Booster Station Proposal
5. Programme – Key Dates
6. Questions

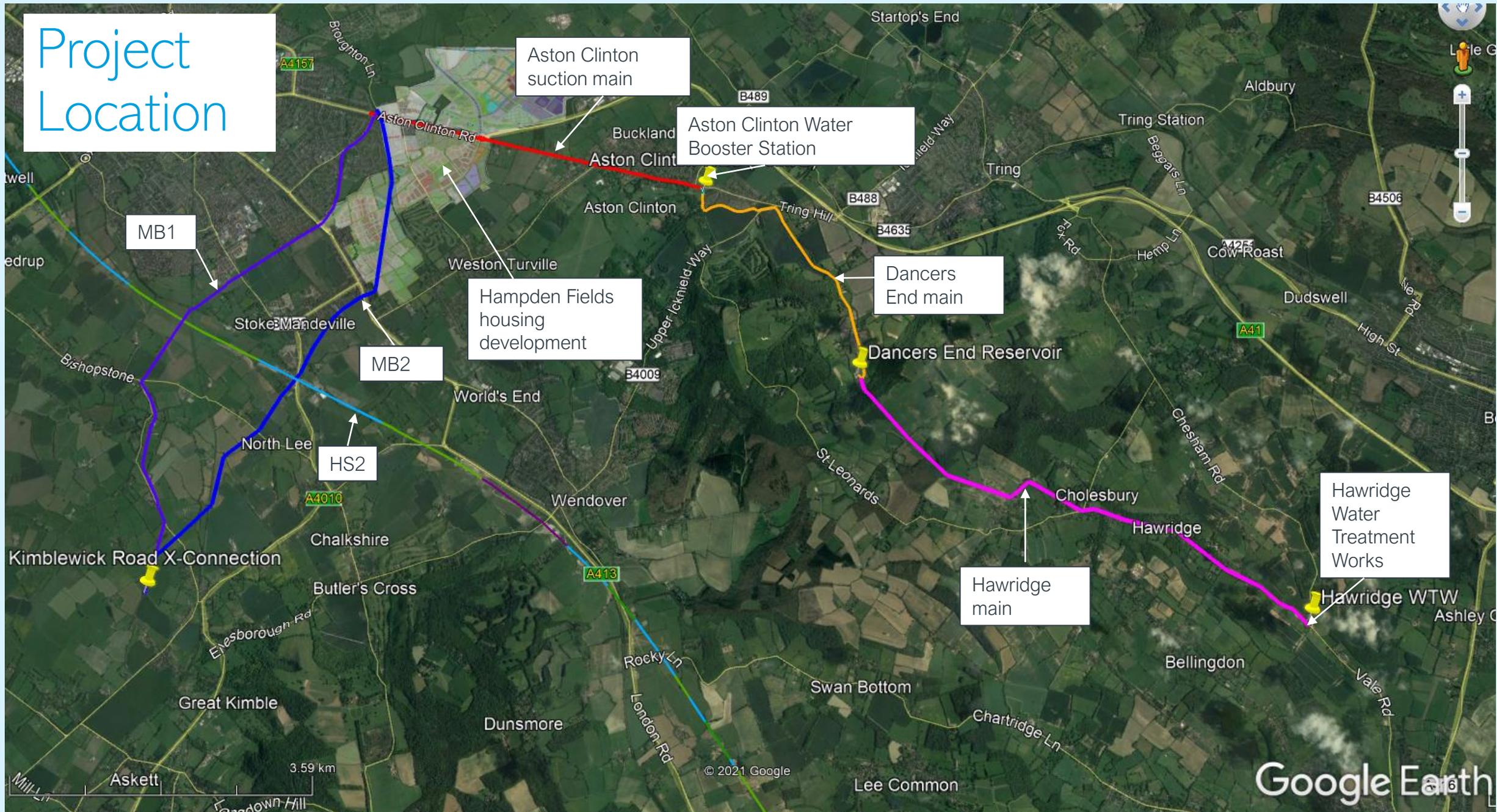


# Project Background

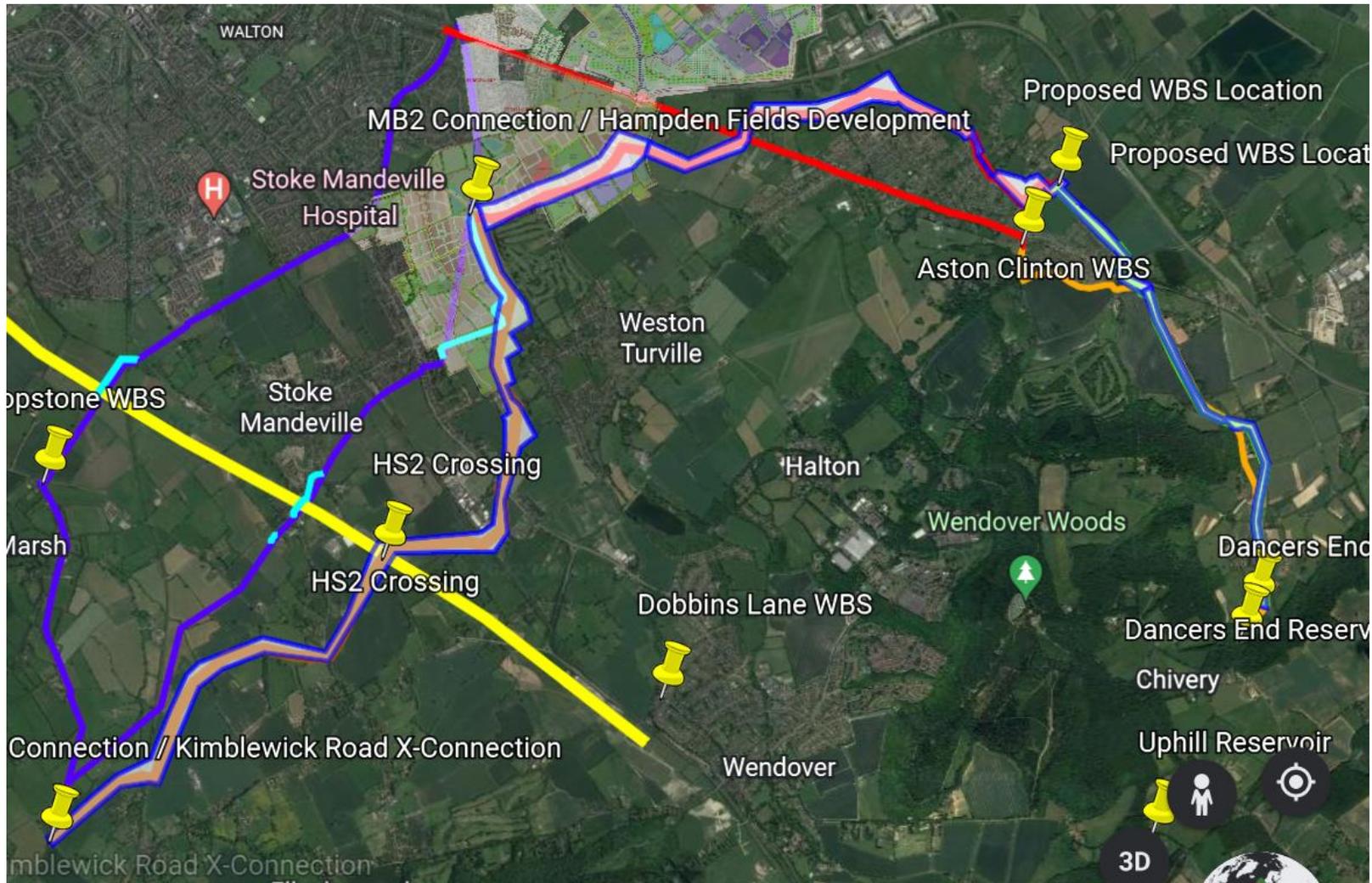
- Water abstraction from boreholes at Thames Water's Hawridge Water Treatment Works (WTW) is having an adverse environmental impact on the River Chess.
- To protect this chalk stream, Thames Water have agreed with the Environment Agency, as part of the WINEP (Water Industry National Environment Programme), to cease abstraction at Hawridge WTW.
- It will therefore be necessary to transfer additional water supply to the area.
  - The only available resource is in the Slough area south of Hawridge. To enable the transfer of water, additional network infrastructure is required.
  - In addition, the existing water supply network does not have the capacity for additional demand due to forecasted growth in the Aylesbury area, and network upgrades will be required.
- This project is required to enable the transfer of water resource to offset the loss of abstraction at Hawridge WTW and ensure resilience in water supply, considering planned growth in the Aylesbury area. The project is due to be completed and operational by 2029.



# Project Location



# Project Scope



**Component 1** – New 7.2km Mid-bucks ‘MB3’ potable water trunk main between Kimblewick Road, Little Kimble, and Hampden Fields development site, Aylesbury.

**Component 2** – New 5.2km potable water trunk main between Hampden Fields development site, Aylesbury, and the new Water Booster Station (WBS) site, Buckland.

**Component 3** – New Water Booster Station site located within Buckland.

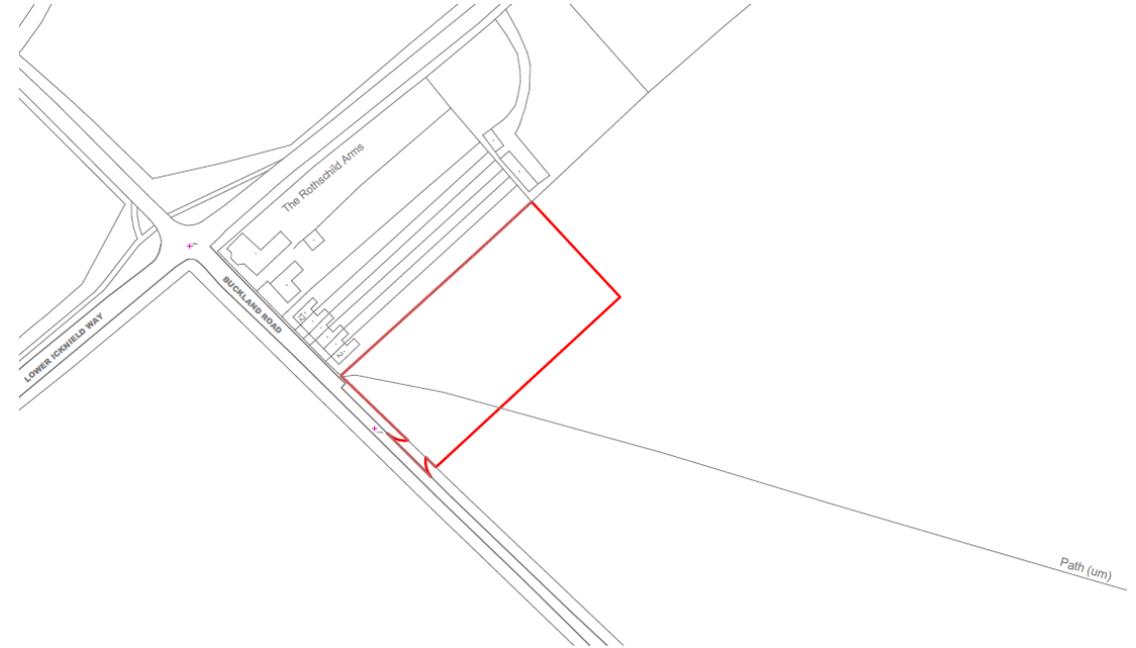
**Component 4** – New 3.9km potable water trunk main between new WBS site, Buckland, and Dancers End Reservoir, Dancers End.

# Buckland Alternative Pipeline Route



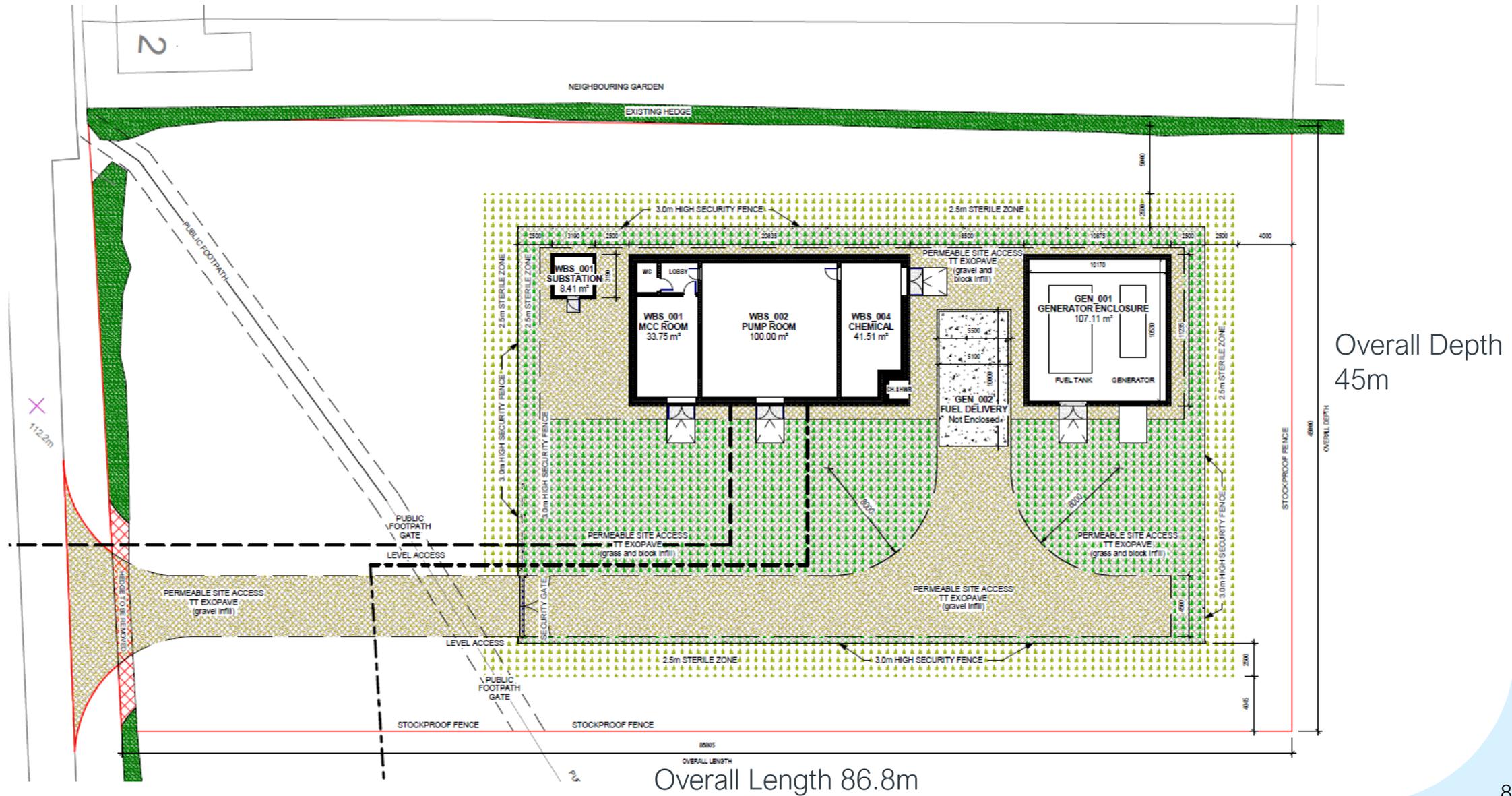
- Environmental Impact Assessment (EIA) Screening determination was undertaken in 2021, which confirmed that the pipeline can be constructed as permitted development. Any affected private landowners will be consulted with and served a Section 159 Notice under the Water Industry Act.
- The original pipeline route through Buckland is potentially affected by the proposed development on the land North of Brandon Close. Design work is ongoing to determine the best route option through Buckland.

# Water Booster Station Proposal

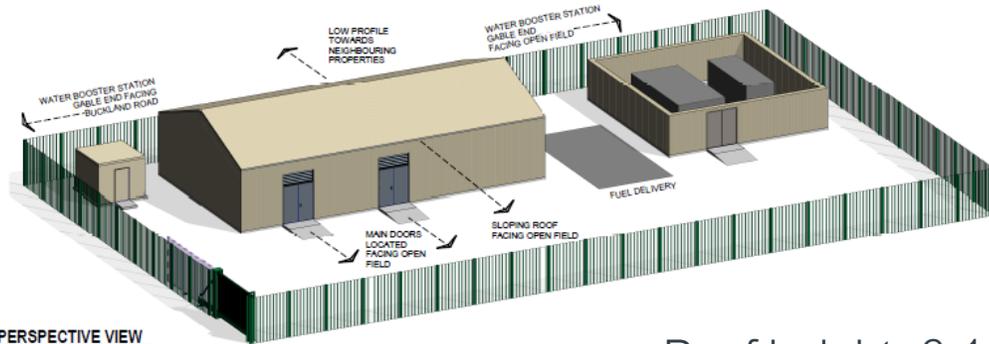


- The Water Booster Station (WBS) is required to pump water uphill. The location of the WBS is constrained due to the hydraulic levels and proposed pipeline route.
- Planning pre-application advice has been sought on the proposed WBS site off Buckland Road. Following consultation with Buckinghamshire Council, we were requested to design the water booster station in keeping with the local surroundings. It is therefore proposed to enclose the WBS in a barn-style structure.
- The WBS will be an unmanned facility and only attended for routine maintenance.

# Water Booster Station – Provisional Layout

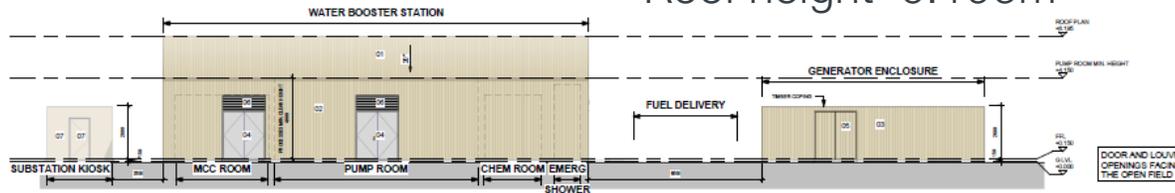


# Water Booster Station – Provisional Elevations



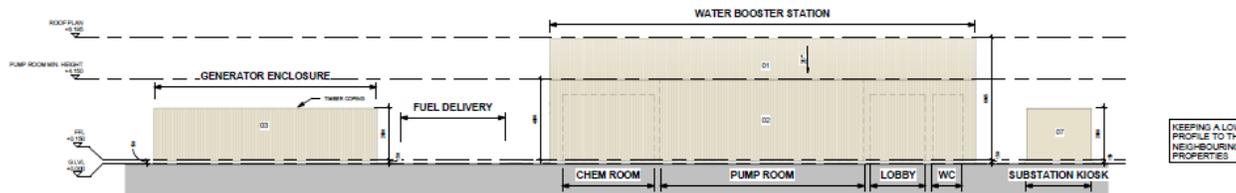
PERSPECTIVE VIEW

Roof height 6.195m



SOUTH EAST ELEVATION

1:100



NORTH WEST ELEVATION

1:100



SOUTH WEST ELEVATION

1:100

NORTH EAST ELEVATION

1:100

## LEGEND

### EXTERNAL MATERIAL PALETTE

#### ROOF

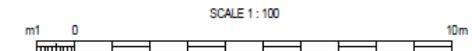
- 01 TIMBER CLADDING  
INSULATED  
TIMBER CLAD ROOF PANEL OVER  
TIMBER CLT STRUCTURE

#### WALLS

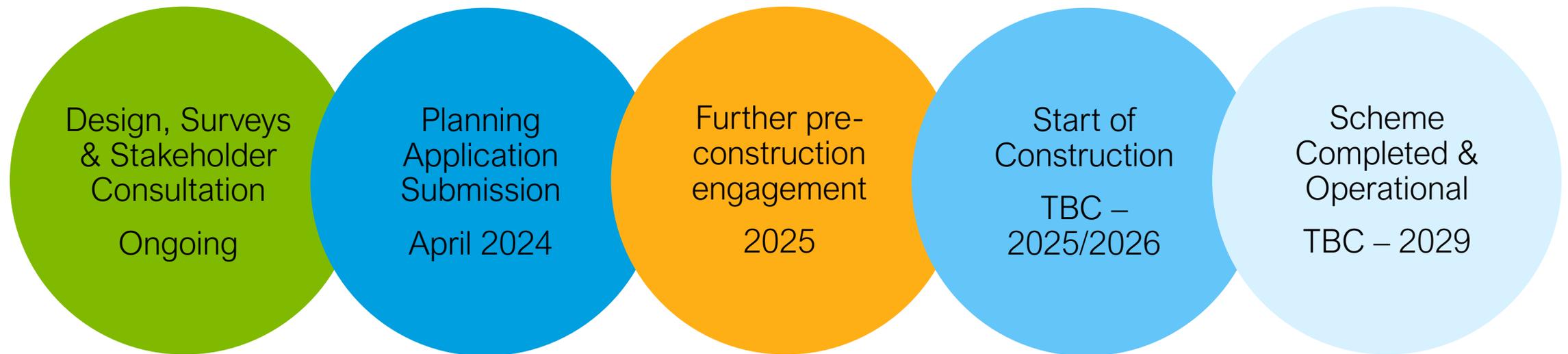
- 02 TIMBER CLADDING  
INSULATED  
TIMBER CLAD WALL PANEL OVER  
TIMBER CLT STRUCTURE
- 03 TIMBER CLADDING  
GENERATOR ENCLOSURE  
TIMBER CLAD WALL PANEL OVER  
TIMBER CLT STRUCTURE

#### DOORS, GATES & LOUVRES

- 04 DOOR TYPE  
INSULATED  
METAL DOUBLE DOORSET
- 05 TIMBER CLADDING GATE  
TO GENERATOR ENCLOSURE  
TIMBER GATE
- 06 LOUVRE TYPE  
METAL LOUVRE NOTE:  
LOUVRE SIZE AND  
LOCATION TBD
- 07 KIOSK  
STEEL POWDER COATED COLOUR TO  
MATCH TIMBER



# Programme – Key Dates





Thank you