

## Design Refinement 1 – Budds Farm Wastewater Treatment Works

### Where is the proposed change?

This design refinement relates to a pumping station that is now required at Budds Farm Wastewater Treatment Works to transfer treated wastewater to the water recycling plant. Budds Farm Wastewater Treatment Works is located within Havant Borough Council's administrative area. At the Summer 2024 Consultation we had not confirmed whether a pumping station would be required at Budds Farm Wastewater Treatment Works due to the ongoing engineering design of the water recycling plant and the pipelines. At the time it was considered that treated wastewater could be transferred to the water recycling plant by gravity.

The design presented at the Summer 2024 Consultation can be seen in **Figure 1**.

### What is changing and why?

Further design development has confirmed that we are now likely to require a pumping station at Budds Farm Wastewater Treatment Works to pump the treated wastewater to the water recycling plant.

An area for the proposed pumping station has therefore been identified on the western side of Budds Farm Wastewater Treatment Works, shown in **Figure 2**. The pumping station would have a maximum length of 12 metres, width of 7 metres, and height of 3.3 metres. The area identified for the pumping station (Limits of Deviation) in **Figure 2** is much larger than these maximum dimensions, in order to provide flexibility for where this might eventually be located in this area, pending the detailed design of the pumping station, the connecting pipelines, and other separate works planned in this area of Budds Farm Wastewater Treatment Works.

We have also identified two additional construction compounds at Budds Farm Wastewater Treatment Works, these would support construction of the pumping station and the pipeline to the water recycling plant.

The proposed design refinement can be seen in **Figure 2**.

### How might the change affect you or the environment?

Whilst the pumping station would be within the boundaries of the existing operational Wastewater Treatment Works, the pumping station would be in close proximity to Langstone Harbour. This is designated as a Special Area of Conservation, a Special Protection Area, and a Ramsar site to ensure environmental protection and safeguard protected species. The Limits of Deviation we have identified for the pumping station would also be adjacent to a Solent Waders and Brent Geese Strategy site. Works to construct the pumping station will be controlled by the Outline Construction Environmental Management Plan that forms part of our Development Consent Order. This plan will ensure that potential pollution and disturbance is minimised, therefore reducing the potential for effects on this site. Vegetation removal will also be reduced as far as reasonably practicable.

Although the pumping station is relatively small in comparison to the wider Wastewater Treatment Works and will be seen against the backdrop of the Wastewater Treatment Works, it may be visible from Solent Way and other nearby footpaths. Any potential effects will be reduced by minimising loss of vegetation, retaining the existing embankment, levels and vegetation along the south-western boundary of the site, and by positioning the building away from the existing embankment and close to existing structures of the Wastewater Treatment Works.

Figure 1 Budds Farm Wastewater Treatment Works – Summer 2024 Consultation design

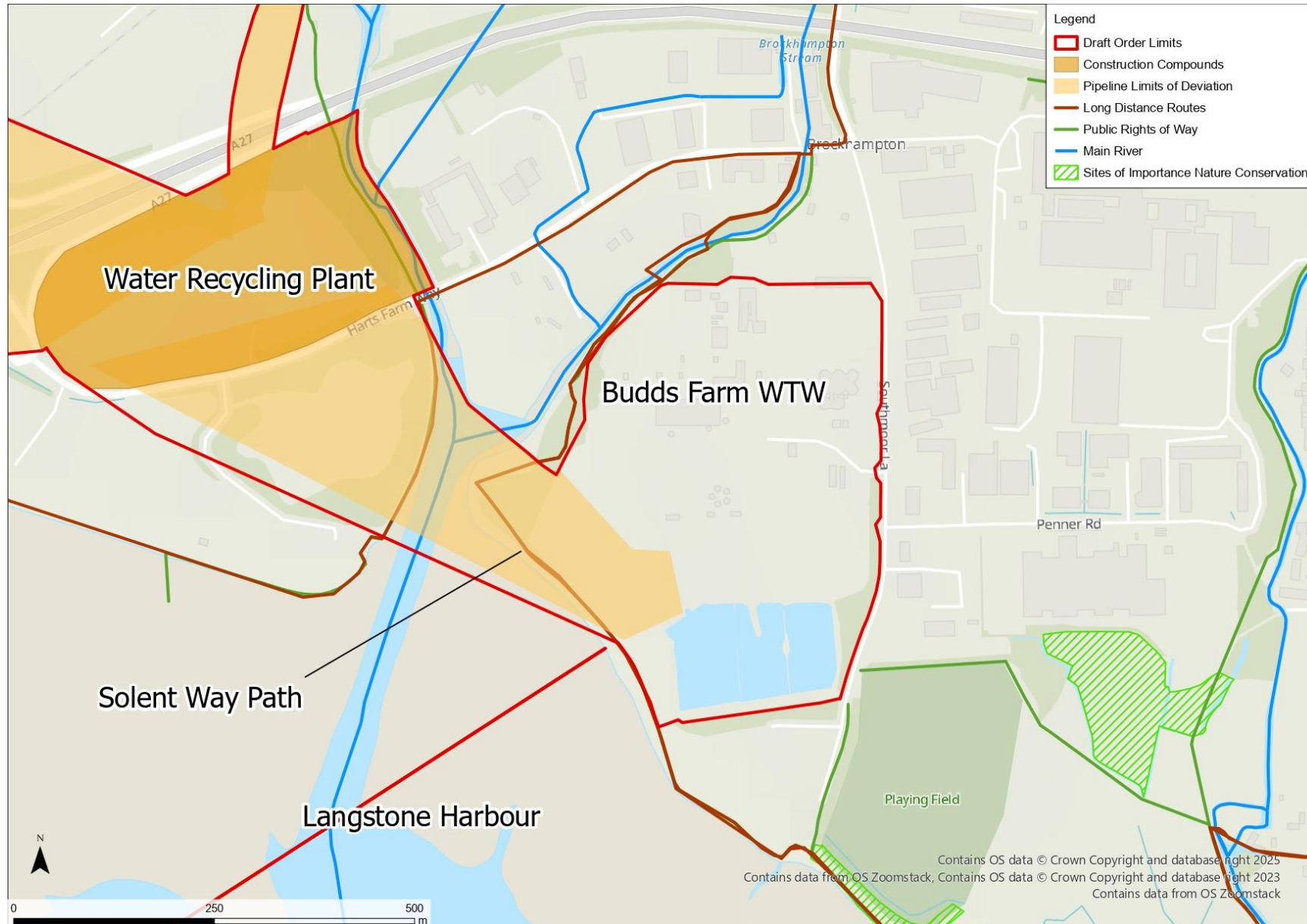


Figure 2 Budds Farm Wastewater Treatment Works – Design Refinement

