

GEOTECHNICAL STABILISATION OF PILE ARISING



AT A GLANCE

Client

Galliford Try for a major utility provider.

Remediation Value

>£300, 000

Site

An extension to an existing large water treatment works. The main contract consisted of sinking over 100 piles 25 meters into the ground to form the outer wall of a foul water storage tank. UK Remediation were tasked with making the saturated arisings stable for road transport and safe disposal.

CHALLENGES

- Limited space on site and working in conjunction with other trades.
- Pile arising volumes varying from 20 – 220m³ per day.
- Confined working area and storage for materials.
- Located next to a SSSI site with public footpath running alongside, including a live watercourse.
- Material deliveries and export schedules needing careful control and management.
- Adjacent to live wastewater treatment works.
- Occupied homes, businesses and public footpaths along all site boundaries.
- Site within 20 meters of open waters and highly exposed to the elements.
- Restrictions on working practices due to strong winds blowing in from the open water.
- Elevated pH of material due to the salinity of the water within the material.
- Groundwater penetrating the piling excavations and causing the material to be saturated.

SUCCESSSES

- No delay in the schedule due to material being treated in sufficient time and ready for export without causing obstructions on site.
- Offsite export of arisings kept within the tolerances for pH disposal by avoiding the use of standard lime as a stabilisation agent.
- Great communication across the board to allow all parties on site to work effectively and uninhibited by each other's operations.
- Refined treatment process once on site to tailor method of operation to best suit site practices and reduce material wastage.
- Material assessed on a load-by-load basis, only saturated material deposited for treatment to save fuel by reducing the need for doublehanding and treating already stable material.

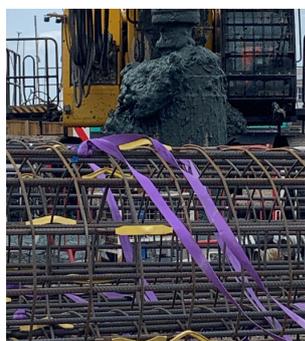


Figure 1 – Piling rig bringing wet material to the surface



Figure 2 – Drying agent added using a specialist excavator processing bucket attachment and sealed to allow time to cure.



Figure 3 - Stabilised material able to bare weight post treatment and ready for disposal.

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