

Case Study

Wetland Cowdenbeath



Project Description:

To create the embankments which form the sides of the 2.5m high perimeter wetland bund to form a totally impermeable material to contain the wetlands.

Key Works: Earthworks
Soil Stabilisation
Mass Soil Mixing (DSM)
Screening & Processing

Client: Scottish Water

Main Contractor: Barhale

Date / Duration: January 2014 / 12 wks

Cut / Fill Volume: 16,000m³

Processing Volume: 16,000m³

DSM Volume: 7,000m³

Project Challenges / GDL Solutions:

- Remediation of contaminated material included screening, sorting and classifying the excavated materials due to the extremely variable nature. Specialist solidification techniques were then used to lock-in the contaminants and render them immobile.
- We also used our solidification technique across the soft formation under the base of the wetlands to create an impermeable capping layer.

Project Benefits for Client:

- Our solution allowed the reuse of contaminated site won material which in turn brought significant cost and environmental savings.
- The mass mixing of materials provided a significant reduction in the exposure to contaminated materials as they could be remediated in-situ.



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EARTHWORKS



SOIL STABILISATION



VIBRO STONE COLUMNS



DEEP SOIL MIXING