

Case Study: Darnford Park North Environmental Mound, Lichfield Canal Products: Geoweb® for Earth Retention



The Lichfield Canal covers a distance of just over 7 miles from Ogley Junction to Huddlesford Junction and was built between 1794 and 1797. The Lichfield & Hatherton Canals Restoration Trust was formed in 1988 to reinstate the historic canals for the benefit of the community.

This project involved the creation of an environmental mound to cut down noise from the nearby A38. Formed from the surplus material from a previous sewer diversion it incorporated a Geoweb Gravity Retaining Wall. These are effective when space constraints, as on this site, do not allow the use of earth reinforcement materials. The system is constructed as a layered gravity wall that resists lateral pressure and maintains structural integrity. From the initial sketch and information Greenfix produced a design and technical guidance that enabled the volunteers to construct the Geoweb reinforced earth retaining wall. The perforations in Geoweb allow lateral drainage through the system, In vegetated systems, the perforations increase root lock-up, creating a more stable vegetated mass and overall healthier soil environment.

The Geoweb panels can be stepped back to create the wall inclination required based on space available and planting requirements. The layers of Geoweb® were filled with a site won sand/soil mix, and were held open with pre-formed steel spacer bars whilst filling took place. The layers were stepped back in line with Greenfix design guidance, and secured by a polyester geogrid mesh installed every third layer to reinforce the compacted back-fill. All photos by The Lichfield & Hatherton Canals Restoration Trust visit them at www.lhcr.org.uk

