

River Darwen Riverbank Stabilisation Project



Salix worked with National Grid to stabilise a bank which had eroded close to a pipeline.

A 120 metre reach of river had been subject to ongoing bank instability issues.

A gas pipeline set in the bank was dangerously close to being exposed and bank revetment options were considered.

Consulting Group, WSP Environmental, brought in Salix to provide outline and then detailed design options utilising bioengineering techniques.

Products Used

- Coir Rolls
- Rock Rolls
- NAG C350
- Tensar Triax TX160





Rock Rolls are installed to create a toe revetment and Stone is used as backfill up to average summer water level. also to act as a coffer dam to prevent sediment release Locally won soil is used above this level from the bank works.







Above: Vegetation establishment 4 weeks after installation in October.

Below: Vegetation establishment in May of the following year. Note the Reed Canary Grass (Phalaris arundinacea) establishment in the coir rolls. This is a key stabilising grass in many gravel bed river catchments.

