

Case Study

Tenax TT Rivel System

River Alt Diversion



Location:

Stonebridge Lane
Croxteth
Liverpool

Project Description:

To facilitate future development within the site there was a requirement to divert the existing route of the River Alt around the perimeter of the site.

In order to facilitate future development on the site it was necessary to divert the existing route of the River Alt around the perimeter of the site. To maximise land use the diversion took two very sharp bends which in turn required steep slope angles.

To ensure the newly formed river banks were protected from scour and erosion, Geosynthetics Limited proposed a reinforced earth structure. Utilising site won soils and introducing geogrids it was possible to construct a 3m high wall at a 70 degree slope angle. By using the Tenax Rivel system it was possible to ensure that a constant reinforced slope angle was achieved. At the face of the structure soil filled bags were placed to provide an environment to promote vegetation growth providing ongoing protection to the structure.

The solution ensured that land use was minimised and that site won soils were utilised mitigating costs of muckaway and imported materials. The structures will be vegetated and blend in with the immediate surrounding area.



Technical Requirements:

- Utilising site won soils and introducing geogrids it was possible to construct a 3m high wall at a 70 degree slope angle.
- The diversion took two very sharp bends which in turn required steep slope angles.



Contractor:

William Pye Limited

Consultant:

Nolan Associates



Geosynthetics
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www.geosyn.co.uk

Geosynthetics were able to provide assistance with determining a cost effective, visually appealing and functional structure.

John Rayment, Quantity Surveyor



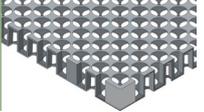
2 in 1
Landscaping Fabric



Gas Membrane
Radon, CO2, Methane,
Hydrocarbon Control



RoofCell
Sub Surface Drainage
And Water Storage



Alert®
Contamination Indicator



Geoglas®
Asphalt Reinforcement



Stratagrid
Soil Reinforcement Geogrid



AquaBlock®
Water Containment Liners



Geomembrane
Impermeable Membrane



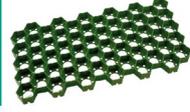
Strataweb
Slope Stabilisation



Bentotex® GCL
Geosynthetic Clay Liner



Golpla
Grass & Gravel Paving System



T-Block
Modular Retaining System



Cellweb® TRP
Tree Root Protection



Golpla Pregrown
Ready To Lay Paving System



Telegrid
Woven Polyester Geogrid



DuoDrain®
Composite Drainage Product



Interlock
Extruded HDPE Geogrids



Televev
High Strength
Woven Geotextile



Erosion Control
Comprehensive Range



Knotblock®
Japanese Knotweed Barrier



Tenax
Soil Reinforcement Solutions



Ekotex®
Non Woven Geotextile



Landlok
Turf Reinforcement Mat



Total Traffic Exopave
Heavy Duty Paver



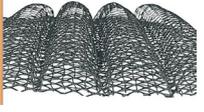
Fiberforce®
Equestrian Geotextile



Nicospan
Erosion Control



Trinter
Erosion Control Mat



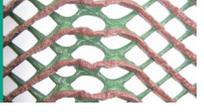
Fibertex
Non Woven Geotextile



Rhyno®
Woven Geotextile



Turfmesh
Grass Reinforcement



Flexitex
Textile Shuttering



RockBox
Gabion Mattresses



RootBlock
Root Barrier

