

# The Complete Construction Service



Title:	<b><u>Courtaulds Sewer Diversion</u></b>
Location:	Fishwick, Preston
Client:	United Utilities
Project Manager:	Richard Townsend
Main Contractor:	Balfour Beatty USL
Commenced:	February 2008
Completed:	December 2008
Value:	£2.75m

## **Background Of The Works:**

The aim of the works were to fix part of the damaged existing foul sewer which was flowing into the River Ribble after the bank had collapsed.

The client required a solution which would stabilise the hillside and repair the sewer, all while maintaining the footpath and cycle track.

There were also a number of restrictions on the work such as nesting birds, rights of way and the potential for more flooding.

## Civil Engineering & Tunnelling Contractors



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**Donegan**  
Civil Engineering

## Scope Of The Works:

Upgrade the existing nearby roads from single lane to allow HGV access. Construct over 1,500m of haul roads across local farmland from crushed rock sourced from local quarries which would be re-used as part of the permanent works.

Install a temporary diversion pipe to carry the flows during construction.

Form a 450m long retaining wall by installing 12m long Larsen steel sheet piles and forming an insitu RC capping beam. Install 25m long ground anchors along the retaining wall to stabilise the ground.

Construct 500m of new gravity sewer with weholite pipes.

Install a permanent handrail along the retaining wall and reinstate the cycle track.



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