

Tonypandy Pipe Repair

Overview:

Site Location:	>> Tonypandy, South Wales
Client:	>> Dwr Cymru
Contract Value:	>> £98,500
Duration:	>> 7 Weeks

Following severe storms and floods which caused damage to the existing 900mm diameter cast iron sewer, we were engaged by DCWW Welsh Water to carry out the emergency repair.

Once initial discussions and method statements were approved by the EA, we mobilised and gained access to the river using a 21t Excavator. We agreed with the EA that the majority of the work would take place in the river bed and to enable us to have a suitable working area we could use the bridge abutments and channels to divert the river flow away from the working area.

We established this area by forming a bund using the existing river bed material. This bund protected us from the majority of the river flow and the remaining minimal volume of which passing through the bund was easily dealt with using localised 2" and 4" suction pumps. As a precaution to avoid the discolouration of water downstream of the works we used silt blankets laid in the river bed.

Once the working area was established with river flows diverted we immediately set up 24hr over pumping of the existing sewer to stop the pollution of the water course. This was achieved using 2no 8" pumps and Treborg stoppers installed in the pipe. The main works then proceeded. Cutting and removing the existing pipe using the 21t excavator and 80t crane to lower the new fabricated pipework and manhole in place.

New concrete slab and piers were constructed to support the new pipework together with bank improvement using blockstone.

The emergency works were a great success with all the stakeholders pleased with repair and improvements DCWW, EA and Local Fisheries.



Lewis Civil Engineering Ltd, Mwyndy Cross Industries, Cardiff Road, Pontyclun, Rhondda Cynon Taff. CF72 8PN

Telephone: 01443 449 200 Fax: 01443 449 201

Website: www.lewis-ltd.co.uk E-mail: enquiries@lewis-ltd.co.uk