



**Canal &
River Trust**

Making life better by water

Valve Corrosion Protection Case Study

OXIFREE[®]
METAL PROTECTION

Valve Corrosion Protection



Location	Denton Reservoir
Local Environment	Reservoir Tunnel
Date	October 2014
Condition	Dry
Total Coatings	1
Substrate Type	Gate Valve
Duration	1 Day

Summary

CPC Civils were tasked by the Canal & Rivers Trust for the replacement of the drain pipe from Denton Reservoir to feed the local amenities. The scope involved replacement of 200mm pipe run and a valve assembly. Unfortunately the original pipe and valve that protruded from the reservoir wall showed signs of heavy corrosion and deterioration and needed to be operational should the flow require arresting.

Objective

Oxifree were commissioned by CPC Civils to protect the valve unit and pipe section from further decay by coating the entire structure in Oxifree TM198.

Process

The project was considered a 'below ground' exercise as the tunnel in which the valve was situated was approximately 7 meters from the opening with height clearance of 1.6m. The tunnel required draining and removal of safety and security grating to gain access. The project was undertaken using the Polymelt 50 unit with a 15m hose and 2 trained technicians

Solution

The valve (1000mm tall) and pipework (1100mm length) were cleaned of loose debris, the area laid with tarpaulin to collect any runoff and the valve fully opened and locked, as per the Task Based Method Statement. A coating of 4-6mm of Oxifree TM198 was applied in a time frame of 2.5 hours. Upon departure, the grating was completely replaced and the area locked and sealed to prevent unauthorized access.

Access Tunnel



Gate Valve Before Application



After TM198 application



Completed

