

# SYLWRAP Case Study



## Fire Station Corroded Steel Pipe Reinforcement

A six metre section of 150mm steel pipe including two elbow bends in a fire station pumping house is reinforced before corrosion could breach the line



Lower sections of the pipe were badly corroded



Upper level of the pipe before reinforcement began



SylWrap HD applied to an elbow bend



Top section - including the two bends - reinforced



Completed reinforcement of the bottom section

### Defect

The pipe brought water from a reservoir on the lower levels of the pumping house to the upper levels, where it was needed for different operations.

Heavy corrosion had developed after many years service, especially on the section of pipe beneath the surface of the reservoir. It was now only a matter of time before the line was breached.

With the station facing an uncertain future, repairing or replacing the pipe once it started leaking would have been a waste of funds. They instead sought to reinforce the line before the problem went that far.

### Solution

Starting from the upper level and working down, **SylWrap HD Pipe Repair Bandage** was wrapped along the six metre length of the pipe.

SylWrap is easily moulded around complex shapes and can be applied underwater, enabling it to reinforce both the bends and the section of pipe passing through the reservoir.

Once cured, SylWrap formed a rock hard shell encompassing the entire line. This protected the pipe from further corrosion.

### Result

Reinforcement of the line was completed in under two hours with no specialist training required.

Extending the lifespan of the pipe enabled it to continue serving the station until such time as a decision was made on the site's future.