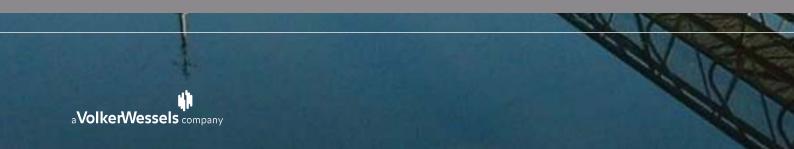
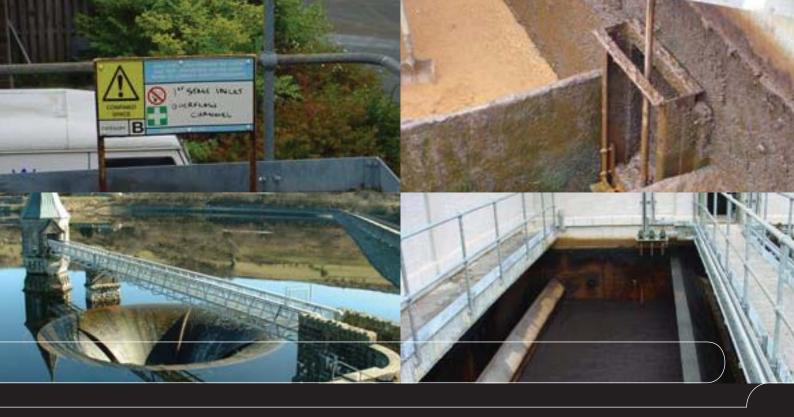


## Pontsticill Water Treatment Works







## Project information

VolkerLaser were commissioned by Black and Veatch as part of their framework contract with Welsh Water to inspect, report and propose a specialist repair solution to a unique situation due to rapidly deteriorating concrete on this relatively newly constructed water treatment plant.

Client Black & Veatch Value £340,000

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VolkerLaser enlisted the support of Mott MacDonalds to provide test data and identify the cause of failure.

A sprayed concrete repair solution was identified as the best cause of corrective action due to its density and ability to carry out large volume repairs. The contract was carried out on a cost

reimbursable partnering concept to allow for consideration of the best and most appropriate engineering solution in each repair location.

VolkerLaser worked in close co-operation with both Black and Veatch and Dwr Cymru to programme and carry out the work in the live water treatment works, whilst ensuring that flows were maintained.

The site was unusual as it featured extremely large sludge tanks with years worth of sludge build up that were 6 or 7 feet deep. This difficult issue was addressed very quickly through the use of a large tanker to pump out the sludge to enable the VolkerLaser team to ensure they kept within the cost, quality & time requirements set by the client.

The tanks were totally enclosed with man hatches either side, this resulted in difficult working conditions, we needed to consider the health and safety of the team and we opted for 30 minutes on and 30 minutes off shift rotation.

The project team followed the safety precautions and manning levels as outlined by our health & safety team. All members of the team involved in enclosed space aspects of the job all carried out the City & Guilds 5 day course to ensure they were adequately trained for the project requirements.