



## Flange / Coupling Corrosion Protection Case Study

**OXIFREE<sup>®</sup>**  
METAL PROTECTION

## Flange / Coupling Corrosion Protection



|                   |                         |
|-------------------|-------------------------|
| Location          | Upper Bittell Reservoir |
| Local Environment | Reservoir               |
| Date              | June 2018               |
| Condition         | Dry                     |
| Total Coatings    | 4                       |
| Substrate Type    | Flanges & Pipe Coupling |
| Duration          | 1 Day                   |

### Summary

CPC Civils were carrying out the replacement of pipework and equipment at Upper Bittell Reservoir. The entire reservoir had been drained to allow this work to be undertaken.

### Objective

Oxifree Global Services was requested to carry out the application of Oxifree TM198 to 3 x 24" flanges on the top valve along with 1 x 18" flange assembly and 1 x 18" pipe coupling on the bottom of the cofferdam.

### Process

The project was considered a below ground exercise, as the lower pipework was approximately 7 meters below ground level within the cofferdam with the top valve being around 1.5m below ground level within the cofferdam.. The project was undertaken using the Polymelt 50 unit with 15m hose and 2 x technicians.

### Solution

The lower pipework was cleaned of mud and dried to allow the application of Oxifree TM198 to both the flange assembly & the pipe coupling. Between 4-6mm of Oxifree TM198 was applied. On the top valve assembly, the upper flanges were coated above and below with the lower flange being coated above only as the underside was sealed within a steel box.

*Flanges prior to clean & application*



*Pipe coupling prior to clean and application*



*After TM198 application*



*After TM198 application*

