

## **M 236 BRYN COWLYD WATER TREATMENT WORKS, DOLGARROG, WALES.**

Client:

**Welsh Water**

Principal Contractor

**Skanska**

Programme

**February to May 2017**

Summary:

Upgrades to Bryn Cowlyd Water Treatment Works



Surface Set Up Including Jacking Gallows and Suspension

### **PROJECT DETAILS**

The project involves delivering significant upgrades to Bryn Cowlyd Water Treatment Works that will safeguard the supply of water to around 100,000 people in the Conwy valley and North Wales coast. The design includes upgrades to hydro-generation dissolved air flotation systems, rapid gravity filter units and high lift pumping stations. The team has been challenged to complete this complex £31 million scheme ahead of the 2017 delivery date set by the Drinking Water Inspectorate.

The work carried out was a DN10500 x 7.5m deep jacked caisson to provide an emergency pumping station, with mass concrete plug and reinforced concrete base

A bespoke temporary suspension system was designed, manufactured, installed and operated by AEYTS to prevent the shaft structure sinking into the very soft ground. This system supported the 250 ton shaft prior to construction of the concrete plug and RC base.