

LLANBERIS WASTE WATER TREATMENT WORKS

M237

Client:

Welsh Water

Principal Contractor:

Mott MacDonald

Bentley

Summary:

**Upgrade to the existing
WwTW at Llanberis**

Programme:

October 2016 to

January 2017



PROJECT DETAILS

A substantial upgrade to the existing WwTW at Llanberis. Welsh Water is achieving its best ever environmental performance thanks to investment on its wastewater treatment works and sewer network. These works play an essential role in protecting the environment and improving bathing water quality and also helped Wales' first designated freshwater bathing lake - Llyn Padarn near Llanberis - secure 'excellent' water quality.

Description of Works:

9No deep wells removing up to 80litres/sec of ground water.

DN12000 x 7.0m deep jacked caisson to provide a humus sedimentation tank.

Mass concrete plug, reinforced concrete base, RC in-situ lining to shaft walls and high accuracy sloping benching to suit the mechanical scraper bridge.

Ductile iron and MDPE pipework to connect the HST to the rest of the new system.

DN3000 x 4m deep desludge chamber including RC base.

Ground conditions: Clay overlying wet sands and gravels.