



## NEWTON STEWART WASTEWATER TREATMENT WORKS

The key objective of this Design & Build project was to increase the wastewater treatment plant capacity from 41litres/sec to 70litres/sec, and thus reduce process failures within the existing plant and premature spilling at the upstream Newton Stewart Pumping Station CSO.

The scope of works included:

- A new inlet works
- Modifications to the existing inlet pump station. New screened effluent flow, sludge return, out fall and treated effluent distribution, chambers.
- A new Anoxic chamber and oxidation ditch
- Two 11m diam x 5m deep final settlement tanks
- An 18m x 7m aeration tank
- New Ras/Sas pumping station
- MCC/HMI & Scada system/telemetry/M&E
- Full process commissioning



site access roads, hardstandings and site drainage completed the works.

A key feature of this Design & Build project was accommodating all the new works within the existing site perimeter around the existing plant which required carefully planning of the integration of the new construction and installations from the outset, to ensure minimum disruption to the existing process.

The process commissioning methodology was taken into consideration right from the start of the contract and a close cooperative working relationship with the existing plant operations personnel was essential to ensure that the new installations were brought in, whilst ensuring that the live works was maintained fully operational within its consents.

<b>CLIENT:</b>	Scottish Water Solutions
<b>ENGINEER / DESIGNER:</b>	Scottish Water Solutions / AECOM
<b>CONDITIONS OF CONTRACT:</b>	NEC3
<b>DURATION OF WORKS:</b>	April 2010 – June 2011 (13 months)
<b>CONTRACT VALUE:</b>	£4,255,000

Regular liaison with SEPA throughout the construction works also ensured that environmental considerations and constraint were fully understood, both with regard to the operational works and the construction activities.