



SION CROSS WTP UPGRADE

225m³/h WTP

Client: Carlow County Council

SUMMARY:

Value: €1.3 million approximately

Status: Complete

Remarks: Process Upgrade:

- Raw Water Screening,
- Enhanced settlement,
- RG Filtration upgrade,
- Chemical dosing upgrade,
- Expansion of in-line water quality monitoring,
- Extensive upgrade and expansion to control system.

Services Provided:

- Detailed Design
- Preparation of Tender Documents
- Procurement Management
- Construction Management

Nicholas O'Dwyer Ltd. were appointed by Carlow County Council as Consultants for the design, procurement and project management of the upgrade to the existing Sion Cross WTP. The project involved the upgrading of each of the existing treatment streams. The design provided for the operation of one treatment stream to be maintained at all times. The design provided for a new river intake chamber incorporating an automatic, dual flow, band screen capable of screening 225m³/hr. Enhanced settlement capacity was provided by the installation of tube settlers and the replacement of decanting channels and sludge collection hoppers. The existing filters together with the backwash system was upgraded and automated.

The existing chemical dosing system was extensively refurbished. The design of the WTP included the extensive upgrading and expansion of the monitoring and control system such that the operation of a fully automated plant was facilitated. The upgrade included for the provision of a new plc which was fully integrated with existing systems and controls. The upgrade works were completed in 2009 and the Sion Cross WTP is consistently producing a water of excellent quality.

