



BANBRIDGE WATER TREATMENT WORKS

VALUE: £7.32 million

CLIENT: Department for Regional Development, Water Service, Northern Ireland

LOCATION: Banbridge, Northern Ireland

CONTRACT START: Feb 2001
CONTRACT FINISH: Feb 2002

PROBLEM: Increased Works treatment capacity, existing works not meeting consent standard

CHALLENGES: To provide a modern waste water treatment facility to replace the existing on the same confined site whilst maintaining the existing works in operation

SOLUTION: Fully automated 4 basin CASS plant and sludge thickening plant.



DESCRIPTION & KEY FEATURES

Outline of Treatment Process:

- DWF 94/s. FFT 307ls. (Population Equivalent 38,000)
- Final Effluent Quality Standard 15/25/4 (BOD/SS/NH3)
- Inlet flow split and measurement flumes including storm screens.
- Inlet works comprising:-
 - Flow to Full Treatment (FFT) Pumping Station.
 - Fine screens (6mm), grit and grease removal plant.
 - Grit classifier and screenings handling plant.
- 4 Basin Cyclic Activated Sludge System (CASTM) Plant.
- Ferric sulphate dosing for phosphate removal.
- Final effluent washwater pumps.
- Refurbishment of storm tanks including replacement return pumps and storm screens
- Sludge thickening comprising:-
 - 1 No. Unthickened sludge holding tank.
 - 2 No Sludge drum thickeners and associated poly makeup and dosing.
 - 2 No Thickened sludge holding tanks and tanker loading pumping station.
 - Odour control plant.
- Standby generator.
- PLC / SCADA control system and Telemetry for remote monitoring.
- Scour and Return liquors pumping stations.