

FilterClear™

Bolsover STW, Phosphorus Removal

Project Name:	Bolsover STW
Client:	Yorkshire Water
Capacity:	58 L/s: 10,000 P/E
Main Contractor:	Eric Wright Group UK
Project Scope:	Design, supply & commission



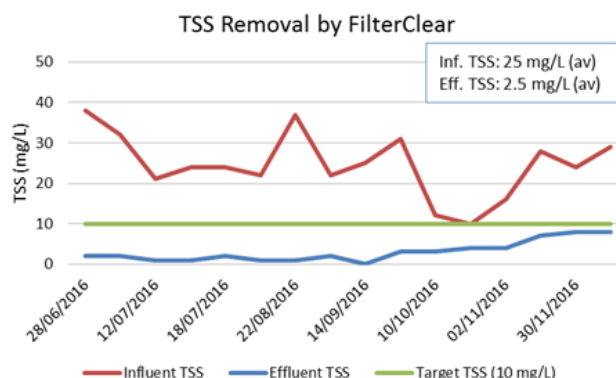
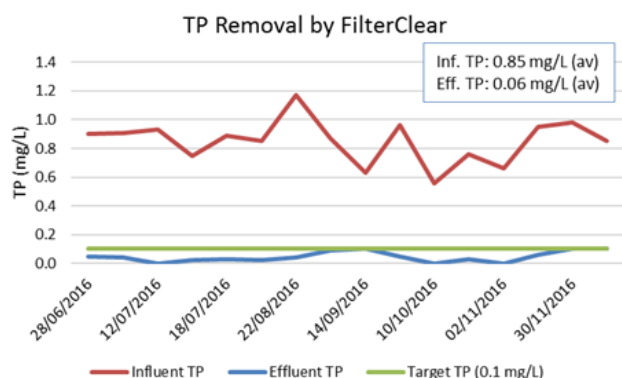
Project Scope

BwB supplied a proprietary triplex FC 3v1840 FilterClear skid and associated control system, and provided design, commissioning and training services. The main contractor, Eric Wright, built a concrete slab and provided associated connecting pipework and power supply cabling for the installation of the FilterClear skid.

Project Description

The FilterClear installation at Bolsover forms part of the national CIP2 program, to ascertain the feasibility and real costs associated with achieving a stringent TP consent of 0.1 mg/L. The project has entailed us working closely with the main contractor Eric Wright, consultant Arup and Yorkshire Water to build a chemical dosing and tertiary treatment plant with the target of 0.1 mg/L TP. The FilterClear skid was fully assembled and tested off-site in our fabricator's works in Chesterfield, including the HMI software by MCS. The skid was transported to site, installed on a flat slab in February and commissioned by 31st March 2016.

The National Phosphorus Removal Programme has demonstrated that FilterClear is one of a very few technologies that is capable of achieving the stringent TP standard below 0.1 mg/L and is able to do this without polymer dosing.



Process Details

Average Flow	3,639 m ³ /d
FFT	5010 m ³ /d 58 L/s
Design Influent TSS concentration* * (without chemical dosing)	27 mg/L ave 57 mg/L 95%ile
Influent TP concentration	13 mg/L 95%ile
Effluent TP target	0.1 mg/L (average)
Effluent TP achieved	0.06 mg/l (average)

FilterClear™



A BLUEWATER BIO TECHNOLOGY

London Office

Bluewater Bio Ltd Winchester House,
259-269 Old Marylebone Road London, NW1 5RA
Int: +44 (0)20 7908 9500 | UK: +44 (0)845 519 5800
info@bluewaterbio.com