

FilterClear™

Bolsover STW, Phosphorus Removal

Project Description

The FilterClear installation at Bolsover forms part of the national CIP program, to ascertain the feasibility and real costs associated with achieving low (0.5 mg/L) to ultralow (0.1 mg/L) total phosphorus consents. 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. As part of the ongoing optimisation the plant operated with first point dosing only and achieved TP concentrations around 0.2 mg/L. The FilterClear skid was fully assembled and tested off-site in our fabricator's works in Chesterfield, including the HMI software by MCS. Following the FAT the skid was transported to site, installed on a flat slab in February and commissioned by 31st March. The trial was operated by the main contractor for a 12 month period with YWS and Arup conducting the sampling and analyses.

Scope of Works

Design, supply, installation, commissioning and operational support of proprietary FilterClear plant 3v1840.

Project Duration

Manufacture 12 weeks
Installation time 1 week
Commissioning time 3 weeks

Client contact

Client organisation: **Yorkshire Water**
Contact person: **Rob Hoyle**
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Project Name:	Bolsover STW
Client:	Yorkshire Water
Capacity:	58 L/s: 10,000 P/E
Project Value:	£330k
Main Contractor:	Eric Wright Group UK
Project Scope:	Design, supply & commission

Project Highlights

- Off-site manufacture
- Ultra-low TP
- Rapid installation and commissioning

Bolsover STW

Average Flow	3,639 m ³ /d
FFT	5,010 m ³ /d 58 L/s
Design Influent TSS concentration*	27 mg/L ave 57 mg/L 95%ile
Influent TP concentration	13 mg/L 95%ile
Effluent TSS	1-2 mg/L
Effluent TP target	0.1 mg/L

* An additional 10 mg/L was added for chemical solids

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A BLUEWATER BIO TECHNOLOGY

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