

CASE STUDY

991 ACE Screener at Pitts Mills STW

March 2013

SPECIFICATION

A 991 ACE Screener is mounted in a stainless steel Prefabricated Inlet with LS305 Liquid Separator station and Control Panel.

The Inlet Screen is fed from a 3.5m high balancing tank via a 300mm feed pipe at up to 55 litres per second. The Screener and Prefabricated inlet are positioned in a concrete bund within 1m of the original civil channel which was fully operational during the civil and Mechanical Installation.

SITE INFORMATION

The site was originally not screened. The Screen was situated close to the original channel with the Liquid Separator station positioned 25m away 3m lower with the screenings discharged into a skip allowing easy access for the skip vehicle.

The Screen in its prefabricated inlet was lifted into position (30m horizontal lift) with a 30 tonne crane in one lift, with the installation taking 3 days.

A separate Control Panel with an HMI control the system positioned 2m from the Screen for easy access.



END USER:

Severn Trent Water

CONTRACTOR:

Costain

FLOWS:

DWF 13 l/s
Peak Flow 55 l/s

KEY BENEFITS:

- Remote Dewatering
- No Washwater Required
- Improved Downstream Processes
- High Screenings Capture Ratio (SCR)
- SCR performance Maintained over Time
- Low Headloss
- Small Footprint
- Modular Design for a Simple Project
- Low Volume, Low Odour Screenings
- Infrequent Operation keeps Operating Costs down
- Organics Returned to Flow