

CASE STUDY**490 ACE Screener at Great Gidding STW**

March 2013

SPECIFICATION

A 490 ACE Screener is mounted in a Stainless Steel Prefabricated Inlet with LS305 Liquid Separator Station and Control Panel mounted on a 3m high Gantry.

The Inlet Screen is pump fed from a 150mm feed pipe at up to 20 litres per second. The Screener and Prefabricated inlet are positioned on a Gantry 20m from the original civil channel which remained fully operational during the civil and Mechanical Installation.

SITE INFORMATION

Originally the site was screened with 20mm Bar screen. The Screen discharges vertically back to the original channel (under a road) feeding the PST's some 20m away, with the Liquid Separator Station discharging the screenings into a bin below the Gantry for easy removal.

The equipment was fitted to the Gantry at Haigh's factory and the platform lifted into position (10m horizontal lift) with a 30 tonne crane in one lift, with the legs and access stairs attached on site, the installation took 3 days.

**END USER:**

Severn Trent Water

CONTRACTOR:

Costain

FLOWS:

DWF 4 l/s

Peak Flow 20 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