

Further information for Effluent Treatment at Sarval Limited – Nottinghamshire

Trade effluent from the installation is discharged into a dedicated sewer under the terms of A discharge consent. The site has an onsite effluent treatment plant. This plant was designed to meet the requirements of the consent:

The process at the installation (Please refer to ETP process flow diagram for each stage):

- All process effluent is gathered to a single collection pit/sump.
- In accordance with BAT, an application of screening solids is applied using sieves to 2mm (parabolic screen).
- Prior to entry into the effluent drains throughout relevant areas, fat traps are utilised to ensure most solid waste is removed.
- Screened water balanced in tank.
- Coagulant/Flocculant and polymer added to enable the dissolved air floatation (“DAF”) process.
- Solids removed post DAF stage and stored for removal
- pH adjustments made where necessary, via chemical dosing (this is monitored for adjustments in real time).
- Treated water sent to sewerage undertaker.

The above stages are assessed via the relevant BAT 34 (5.1.5 – BAT treatment of waste water) in the BAT assessment against relevant BRef document – included with this application.

Daily Checks

The following is taken from the EMS procedure for the Measurement and Monitoring for the ETP area and processes:

The following should be recorded:

- If the Polymer and caustic are dosing
- If there has been a delivery of Chemicals
- The Sewer total meter readings
- The running state of the Bio Bed Fan and Scrubber Spray Pump

4.2.2 A daily sample of the sites discharge to sewer will be taken and tested for pH, ammonia, COD and suspended solids. The information will be recorded on the *Daily Feed and Final Analysis sheet*.

4.3 Daily Primary D.A.F. Unit Checks

4.3.1 At least once per shift the polymer dosing unit set point and the polymer tank level shall