

Performance Report – PC 4.2.1

Company Name:	Tradebe (Gwent) Ltd
Facility Name:	Bridgend Waste Management Centre
Facility Address:	Factory Lane Bridgend South Wales CF35 5BQ
Permit Number:	NP3233XX
Activity Performance Report:	01/01/19 – 31/12/19

c. Review of Monitoring Results

The following measures are monitored on a routine basis as a requirement of the permit. (These do not constitute a complete list of all the monitoring carried out as part of management of the site).

i. Trade Effluent Discharges

Final effluent discharges pass through flow meters, which record the instantaneous flow rate (ls^{-1}), and the cumulative total flow (m^3) and a GLS auto sampler which takes a time-proportional composite sample over the discharge period. The composite sample is analysed in the site laboratory and is also taken to our Gwent site laboratory for further analysis using an ICP. Quarterly composite samples from all our final effluent discharge samples are produced and analysed in house, both on site and again at Gwent, and also send a to an outside accredited Lab for further cross reference. These results are recorded on site and used for monitoring and reporting purposes. The trade effluent discharge is also sampled on a regular and random basis by Welsh Water, both for compliance and charging purposes.

NRW report S1 is completed and has been submitted to NRW through 2019.

The effluent discharge monitoring and management systems achieved MCerts recertification 26th March 2019, with renewal required March 2020. The flow meters are included in our site PPM system and undergo in house verification. These are up to date with records on our shared drive and available for audit.

ii. Waste Inputs and Outputs

Waste inputs and outputs are monitored on a daily and item by item basis. The SAP system now run by Tradebe across all facilities in all countries is fully integrated and controls waste enquiries, inputs, stock, financial data and analysis from cradle to grave. Reports of waste inputs and outputs are compiled and submitted to EA as the site returns on a quarterly basis.

b. Improvement Targets (from Management System)

A new CCTV system was installed in 2019 to improve site security, consisting of 5 cameras and 2 infra-red detectors, all linked to an out of hours monitoring centre. A trial centrifuge was installed in an attempt to further process site generated sludge & potential incoming streams which unfortunately could not be optimised to work efficiently.

An in-line oil filter and filter housing has been installed into the oil storage tank discharge line, to remove larger particles from recovered oil, opening up more oil recovery routes.

A redundant treatment process comprising of 3 stage reactor and lamella clarifier were removed from site and relocated to Gwent for use in pilot plant trials.

c. Annual Production / Treatment Data

The data required by table S5.2 of the site Permit has been reported to EA on a quarterly basis via the waste returns. The data submitted therein was:

Total waste received approximately	27,910te
Recovered Oil approximately	77.34te
Sludge Produced and disposed off site approximately	23.9te
Effluent Discharged to sewer	30,259te

d. Performance Parameters

Energy usage is reported using form E1 and emailed to NRW.

Water usage, unable to monitor as this is supplied unmetered to site direct from Dŵr Cymru.

Raw materials: The site purchases two different raw materials which are used as treatment reagents: ferric chloride solution, for both pH adjustment and grey water treatment in the DAF plant, and a polyelectrolyte to aid with clarification.

Polyelectrolyte usage is minimal, with 1 x 1000 litre IBC lasting the site in excess of 12 months.

Ferric chloride usage is below:

Raw Material	Usage 2012 (kg)	Specific Usage (kg / tonne)
Ferric chloride	13,360	0.0005
Polyelectrolyte	150	n/a

e. Site Contamination / Decontamination Notes

No contamination events occurred within 2019.

Alex Morris
Site Manager
Bridgend WMC
Tradebe Ltd
18/05/2020