

|                                     |                                                        |             |          |
|-------------------------------------|--------------------------------------------------------|-------------|----------|
| <b>Company Name:</b>                | Tradebe (Gwent) Ltd                                    |             |          |
| <b>Facility Name:</b>               | Gwent Waste Management Centre                          |             |          |
| <b>Facility Address:</b>            | Corporation Road<br>Newport<br>South Wales<br>NP19 4RD |             |          |
| <b>Permit Number:</b>               | SP3531SK                                               | Issue Date: | 26/06/06 |
| <b>Variation Notice:</b>            | EA/EPR/SP3531SK/V009                                   | Issue Date: | 28/06/21 |
| <b>Activity Performance Report:</b> | 01/01/22 – 31/12/22                                    |             |          |

### a. 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

Trade Effluent generated by the treatment process is directed into two settlement tanks prior to overflow into the onsite drain for discharge into the local sewer. The Trade Effluent is discharged through a Siemens Magflo meter, which records the instantaneous flow rate ( $\text{m}^3/\text{hr}^{-1}$ ), the cumulative total flow ( $\text{m}^3$ ) and an Aquamatic auto sampler which takes a flow-proportional composite sample over the discharge period (24 hrs). The composite sample is analysed in house once per weekday when effluent is discharged. The composite sample is also sampled weekly by Welsh Water.

NRW report S1 records the high/low analytical results in each quarter and have been submitted to NRW through 2022.

Total effluent produced: 49,415  $\text{m}^3$   
 Effluent produced per unit: 0.720 $\text{m}^3$  / te

The effluent discharge monitoring and management systems achieved MCERTs re-certification on 6<sup>th</sup> May 2022 with most recent audit undertaken 6th May 2027. The Magflo meter is included in our site PPMS system, and receives an annual third-party verification and annual service from an outside contractor.

## ii. Site Scrubber Monitoring

The site has three scrubbers that are checked on a daily basis for both alkalinity/acidity and pH and this is used to monitor performance. The results are reported for review at the daily morning meetings and also reported to NRW every six months as a permit requirement via form SC1.

## iii. Waste Inputs and Outputs

Waste inputs and outputs are monitored and tracked using SAP which is the system of choice used by Tradebe across all facilities in all countries. It is a fully integrated system 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 NRW as the site returns on a quarterly basis. In summary:

For 2022

| <b>Inputs</b>        | <b>Hazardous<br/>(te)</b> | <b>Non-Hazardous<br/>(te)</b> |
|----------------------|---------------------------|-------------------------------|
| Treatment Plant      | 53,378                    | 16,101                        |
| Transfer Station     | 7,008                     | 2,006                         |
| <b>Outputs</b>       |                           |                               |
| Third Party Disposal | 4,153                     | 12,856                        |
| Landfill             | 0                         | 12,618                        |

Quantities are measured by means of the site weighbridge, which is calibrated annually by an external contractor. In 2022 this was carried out in September.

#### iv. Filtercake Outputs

Filtercake is produced in batches from the treatment process, which is the site's single largest solid output. The ratio of tonnes filtercake produced per tonne of waste treated is a good indicator of both operational and environmental efficiency but is variable dependent upon the types of waste being treated e.g. metal salt, sulphate, phosphate rich wastes will produce more filtercake when compared to landfill leachates or other less-contaminated effluents. The ratio for the last few years is given in the table below and 0.25 is considered an ideal figure:

| Year                      | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 |
|---------------------------|------|------|------|------|------|------|------|------|------|
| te filtercake/tonne waste | 0.27 | 0.26 | 0.22 | 0.16 | 0.14 | 0.14 | 0.17 | 0.17 | 0.18 |

2022 continued with the trend of the previous 3 years with increases in the volume of wastes that had low solids coupled with more caustic waste streams that required less lime for neutralisation and stricter controls on coagulant usage, resulting in proportionally less filter cake produced per tonne of waste. This accounts for the ongoing reduction of te filtercake/tonne waste through 2022.

#### b. Annual Improvement Targets (from Management System)

Optimisation work, both lab and plant trials continued through 2022 on our BReF compliance project. This work will continue in 2023 in preparation for implementation.

An Mcerts air emissions gantry was approved for installation at the end of 2022 but due to some structural and technical issues did not go ahead. All of the issues have now been resolved and the work is set to be complete in Q1 2023.

**c. Annual Production / Treatment Data**

The data required by table S5.2 of the site Permit has been reported to NRW on form PI1 in Jan 23. In addition, waste returns are submitted to NRW on a quarterly basis in an electronic format. The data submitted therein was:

|                                                       |           |
|-------------------------------------------------------|-----------|
| Total waste received                                  | 69,479 te |
| Treatment residues disposed to non-hazardous landfill | 12,618 te |
| Treatment residues disposed to hazardous landfill     | 0 te      |

**d. Performance Parameters**

As stated in section (c) above, form PI1 was submitted to NRW for the reporting period. The environmental performance indicators given on this form are:

|                              |        |                |
|------------------------------|--------|----------------|
| Effluent discharged to sewer | 49,415 | m <sup>3</sup> |
| Water used                   | 8220   | m <sup>3</sup> |
| Non-hazardous waste sent out | 12,856 | te             |
| Hazardous waste sent out     | 4,153  | te             |

**e. Site Contamination / Decontamination Notes**

No contamination events occurred within 2022

Alex Morris  
GWMC Site Manager  
09 Feb 23