

Company Name:	Tradebe (Gwent) Ltd		
Facility Name:	Gwent Waste Management Centre		
Facility Address:	Corporation Road Newport South Wales NP19 4RD		
Permit Number:	SP3531SK	Issue Date:	26/06/06
Variation Notice:	EA/EPR/SP3531SK/V005	Issue Date:	10/04/13
Activity Performance Report:	01/01/14 – 31/12/14		

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

Final effluent discharges pass through a Siemens Magflo meter, which records the instantaneous flow rate (ls^{-1}), and the cumulative total flow (m^3) and an Aquamatic auto sampler which takes a flow-proportional composite sample over the discharge period (24 hrs). This is an improvement carried out in 2011, to upgrade the autosampling equipment and connect to the flowmeter to provide true flow proportional sampling. The composite sample is analysed in house once per weekday when effluent is discharged. The composite sample is also sampled on a regular and random basis by Welsh Water.

NRW report S1 records the high/low analytical results in each quarter and have been submitted to EA through 2014.

Total effluent produced: $52,757 \text{ m}^3$
 Effluent produced per unit: $0.955 \text{ m}^3 / \text{te}$

The effluent discharge monitoring and management systems were accredited to MCerts in Oct 2009. The Magflo meter is included in our site PPM system, and receives an annual calibration check that was carried out in Oct 2014 by Siemens.

Towards the end of the year there was increased focus on effluent quality as a result of a combination of personnel changes and a change in policy at Welsh Water. This has resulted in a number of meetings and we are actively working to improve our performance via a number of initiatives.

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 also used as a baseline for any dosing in order to optimise scrubbing efficiency and the findings reported back for review at the daily morning meetings. This is an ongoing

process that is reported to NRW every six months as a permit requirement via form SC1.

There was an issue with the pH on the acid scrubber in July as the result of a passing water make up line for which a Section 6 notification was submitted to the NRW. There was no environmental impact associated with this breach as there is a main scrubber prior to discharge that acts as a 'catch all'.

iii. 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 NRW as the site returns on a quarterly basis. In summary:

For 2014

Inputs	Hazardous (te)	Non-Hazardous (te)
Treatment Plant	37,449	17,674
Transfer Station	6,256	1,709
Outputs		
Third Party Disposal	2,708	17,011
Landfill	24	14,879

Quantities are measured by means of the site weighbridges, which are calibrated annually by an external contractor. In 2014 this was carried out in November.

iv. Filtercake Outputs

The filtercake that is produced in batches from the treatment process is non-hazardous and 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	2007	2008	2009	2010	2011	2012	2013	2014
te filtercake/tonne waste	0.31	0.31	0.27	0.26	0.29	0.29	0.23	0.27

b. Annual Improvement Targets (from Management System)

In the first half of the year a number of appointments were made that included a Shift Chemist, Shift Managers and an Operations Manager from which a management re-structure was implemented on 04 Jul 14 to improve consistency and accountability on site. There were also a number of formal audits from the HSE on 16 Jul 14 that looked at our Permit to Work system and SGS on 13/14 Nov 14 with no major non-conformances. In October Tradebe were given the environmental award at the Royal Mint Suppliers awards

c. Annual Production / Treatment Data

The data required by table S5.2 of the site Permit has been reported to NRW on form PI1 on 22 Jan 15. In addition waste returns are submitted to NRW on a quarterly basis in an electronic format. The data submitted therein was:

Total waste received	55,239 te
Treatment residues disposed to non-hazardous landfill	14,879 te
Treatment residues disposed to hazardous landfill	24 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	52,757	m ³
Water used	14,215	m ³
Non-hazardous waste sent out	17,011	te
Hazardous waste sent out	2,708	te

Water Usage Audit carried out by Aqualogic in association with Welsh Water on 15 Oct 14 that identified over £440 a month savings that will improve water efficiency. Also the main power incomer on site was changed on 14 Aug 14 that has improved electricity efficiency.

e. Site Contamination / Decontamination Notes

No contamination events occurred within 2014 however there was a particular/significant decontamination projects carried out in the second half of the year with the clean out of tanks 21/22 that contained an estimated 630te of legacy caustic wastes that were treated through the plant.

Mark Griffiths
GWMC Site Manager
Tradebe Ltd
23 Jan 15

