

**EPR/EP3230BW EnviroWales Ltd. Plateaux 1 & 2 Rassau Industrial Estate, Ebbw  
Vale NP23 5SD**

**Submitted 19/02/2025**

***Permit Condition 4.2.2 a) review of the results of the monitoring and assessment carried out in accordance with the Permit including an interpretive review of that data***

As required by Permit EP3230BW condition 4.2.2a), this document provides a review of the annual monitoring and assessment activities, including an interpretive analysis of the collected data.

**Performance Review 2024**

Emission points A1 through A5 were monitored twice yearly via extractive sampling, in compliance with permit requirements and specified standards.

Sampling was carried out to test for heavy metals - including lead, particulates, combustion gases (carbon monoxide, sulphur dioxide, hydrogen chloride, nitrogen oxides, VOC's) as well as dioxins and furans. Emission point A1 (Battery Breaker) also tests for Acid Mist from the wet scrubber attenuation stack.

All levels were in compliance with the permitted levels and have not exceeded the ELV. The most positive results were Arsenic, Cadmium, Mercury, Thallium & Selenium with a total of >99% below the limit on A1, A3 and A4 proving a well-controlled level. Dioxins and Furans also had great results with 98.7% below the limit on A2 and 98.3% below the limit on A3. It can be noted that oxides of nitrogen had the closest result to its limit (99.26 mg/m<sup>3</sup>) is 99.26% of the limit (100 mg/m<sup>3</sup>).

Emission point A6 is not yet operational as the necessary process equipment has not been installed. Compliance for emission points A7 and A8 is determined through visual inspection – this was within compliance.

Monthly sewer emissions for BOD and Arsenic at discharge point S1 were reported as the maximum values for the year. These were both in compliance and well below the limit. Release point W1 is not operational, all surface and rainwater is collected on site and reused. It is then routed to the effluent treatment plant and trade sewer.

On a monthly basis ambient monitoring takes place for lead and particulate matter (PM10). This testing takes place at Garnlyddan School. The lead levels are always below the requirement. There is a fluctuation in the particulate levels in the area but this could be from a result of various factors in the local area and times of the year.

Annual production figures show that there was no significant change in quantities of raw materials sent for smelting from previous years. The previous year of 2023 67630 tonnes of raw material were sent for smelting and 63197.507 in the year 2024. The figures are not unusual and show no substantial change from previous years where this figure has been between 60000 – 67000 tonnes. The battery recycling process is intensive, with the raw material usage hardly changing across the years there is a minimal variation in the energy usage figures, thus only changing the specific usage (MWh/unit output) by no greater than 0.02. Energy efficiency continues to be a key site performance indicator and projects are continuously ongoing to support this.

EnviroWales maintains strong environmental performance, consistently operating well within the limits stipulated by its Permit. This is achieved through effective process controls and abatement measures, regularly monitored by UKAS-accredited contractors. Currently, no environmental concerns exist, and ongoing site improvement plans prioritize continued compliance and enhancement of environmental performance.