

Permit Number: **EPR/ZP3939GL**

Operator: **Western Bio-Energy Limited**

Facility: **Western Wood Energy Plant - Margam**

Form Number: **Air 2** (Periodic Monitoring)

Reporting of emissions to air for the period from: 01/01/2022 to 30/06/2022

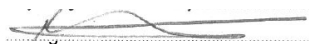
| Emission Point | Substance / Parameter | Emission Limit Value | Reference Period | Result | Sample date and times | Test Method ^{1,2)} | Uncertainty |
|----------------|---|----------------------|---|---------|--------------------------------|---|-------------|
| A1 | Particulate Matter | 15 mg/m3 | Average over monitoring period - Periodic sample over a minimum 1 hour period (| 0.84 | 19/05/2022 (11:20 to 12:24) | EN 13284-1 & and MID for EN 13284-1 | 53% |
| A1 | Oxides of nitrogen (NO and NO ₂ expressed as NO ₂) | 300 mg/m3 | Average over monitoring period - Periodic sample over a minimum 1 hour period | 270 | 10/05/2022 (12:00 to 13:00) | EN 14792 | 3% |
| A1 | Carbon monoxide (CO) | 250 mg/m3 | Average over monitoring period - Periodic sample over a minimum 1 hour period | 216.05 | 10/05/2022 (12:00 to 13:00) | EN 15058 | 4% |
| A1 | Ammonia (NH ₃) | 10 mg/m3 | Periodic sample over a minimum 1 hour period | 0.10 | 20/05/2022 (11:35 to 12:35) | EN ISO 21877 | 14% |
| A1 | Nitrous oxide (N ₂ O) | No Limit Set | Periodic sample over a minimum 1 hour period | 0.27 | 20/05/2022 (11:35 to 12:35) | PD CEN/TS 17337:2019 | 9% |
| A1 | Sulphur dioxide (SO ₂) | No Limit Set | Periodic sample over a minimum 4 hour period | 19.41 | 10/05/2022 (12:00 to 16:00) | PD CEN/TS 17021:2017 | 14% |
| A1 | Hydrogen Chloride (HCl) | No Limit Set | Periodic sample over a minimum 1 hour period | 0.10 | 19/05/2022 (11:20 to 12:24) | EN 1911 | 14% |
| A1 | Cadmium & thallium and their compounds (total) | No Limit Set | Periodic sample over a minimum 30 minute, maximum 8 hour period | 0.0010 | 19/05/2022 (13:00 to 14:04) | EN 14385 and MID for EN 14385 | 5% |
| A1 | Mercury and its compounds | No Limit Set | Periodic sample over a minimum 30 minute, maximum 8 hour period | 0.00035 | 19/05/2022 (14:35 to 15:39) | BS EN 13211 : 2001 | 10% |
| A1 | Metals (Sb, As, Pb, Cr, Co, Cu, Mn, Ni and V and their compounds (total)) | No Limit Set | Periodic sample over a minimum 30 minute, maximum 8 hour period | 0.053 | 19/05/2022 (13:00 to 14:04) | EN 14385 and MID for EN 14385 | 5% |
| A1 | Dioxins / furans (I-TEQ) - ng/m ³ * | No Limit Set | Periodic sample over a minimum 6 hour, maximum 8 hour period | 0.032 | 20/05/2022 (11:35 to 12:35) | EN 1948: Parts 1, 2 and 3 & MID for EN 1948 | 12% |

1) The result given is the maximum value (or the minimum value in the case of a limit that is expressed as a minimum) obtained during the reporting period, expressed in the same terms as the emission limit value.

2) For non-continuous measurements the date and time of the sample that produced the result is given.

3) The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated.

4) Periodic monitoring shall be performed when the boiler is operating at a minimum MCR of 60% and when a typical combination of virgin and non-virgin biomass fuel is being combusted in the unit.


 (Authorised on behalf of Western Bio-Energy Limited)

Date ...25/07/2022