

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: 01/07/2021 to 31/12/2021

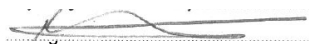
Emission Point	Substance / Parameter	Emission Limit Value	Reference Period	Result	Sample date and times	Test Method ^{1,2)}	Uncertainty
A1	Particulate Matter	15 mg/m ³	Average over monitoring period - Periodic sample over a minimum 1 hour period (1.31	23/11/2021 (13:12 to 13:52)	EN 13284-1 & and MID for EN 13284-1	37%
A1	Oxides of nitrogen (NO and NO ₂ expressed as NO ₂)	300 mg/m ³	Average over monitoring period - Periodic sample over a minimum 1 hour period	226	24/11/2021 (12:00 to 16:00)	EN 14792	2%
A1	Carbon monoxide (CO)	250 mg/m ³	Average over monitoring period - Periodic sample over a minimum 1 hour period	100.91	24/11/2021 (12:00 to 16:00)	EN 15058	3%
A1	Ammonia (NH ₃)	10 mg/m ³	Periodic sample over a minimum 1 hour period	1.33	25/11/2021 (12:05 to 13:10)	EN ISO 21877	14%
A1	Nitrous oxide (N ₂ O)	No Limit Set	Periodic sample over a minimum 1 hour period	0.30	24/11/2021 (14:00 to 15:00)	PD CEN/TS 17337:2019	7%
A1	Sulphur dioxide (SO ₂)	No Limit Set	Periodic sample over a minimum 4 hour period	22.13	24/11/2021 (12:00 to 16:00)	PD CEN/TS 17021:2017	3%
A1	Hydrogen Chloride (HCl)	No Limit Set	Periodic sample over a minimum 1 hour period	55.19	25/11/2021 (10:30 to 11:35)	EN 1911	14%
A1	Cadmium & thallium and their compounds (total)	No Limit Set	Periodic sample over a minimum 30 minute, maximum 8 hour period	0.0015	23/11/2021 (14:50 to 15:55)	EN 14385 and MID for EN 14385	6%
A1	Mercury and its compounds	No Limit Set	Periodic sample over a minimum 30 minute, maximum 8 hour period	0.00079	23/11/2021 (14:50 to 15:55)	EN 14385 and MID	8%
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	0.082	23/11/2021 (14:50 to 15:55)	EN 14385 and MID for EN 14385	4%
A1	Dioxins / furans (I-TEQ) - ng/m ³ *	No Limit Set	Periodic sample over a minimum 6 hour, maximum 8 hour period	0.011	24/11/2021 (12:10 to 18:15)	EN 1948: Parts 1, 2 and 3 & MID for EN 1948	11%

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 ...25/01/2022