

Permit Number: **EPR/DP3137EG**

Operator: **Margam Green Energy Limited**

Facility: **Margam Green Energy Plant**

Form Number: **Air 2**

Date : **07/10/2022**

Reporting of periodic monitoring <sup>[1]</sup> 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 <sup>[2]</sup>	Test Method <sup>[3]</sup>	Result Date & Time <sup>[4]</sup>	Uncertainty <sup>[5]</sup>
A1	Cadmium & thallium and their compounds (total)	0.05 mg/m <sup>3</sup>	periodic over minimum 30 minute, maximum 8 hour period	0.0008 mg/m <sup>3</sup>	BS EN 14385	24/08/2022 10:10 – 12:14	+/- 0.0008 mg/ m <sup>3</sup>
	Mercury and its compounds	0.05 mg/m <sup>3</sup>	periodic over minimum 30 minute, maximum 8 hour period	0.0016 mg/m <sup>3</sup>	BS EN 13211	25/08/2022 09:00-10:05 10:20-11:25 11:45-12:50	+/- 0.0008 mg/ m <sup>3</sup>
	Sb, As, Pb, Cr, Co, Cu, Mn, Ni and V and their compounds (total)	0.5 mg/m <sup>3</sup>	periodic over minimum 30 minute, maximum 8 hour period	0.0291 mg/m <sup>3</sup>	BS EN 14385	24/08/2022 10:10 – 12:14	+/- 0.0040 mg/ m <sup>3</sup>
	Dioxins / furans (I-TEQ)	0.1 ng/m <sup>3</sup>	periodic over minimum 6 hours, maximum 8 hour period	0.1261 ng/m <sup>3</sup>	BS EN 1948 Parts 1, 2 and 3	24/08/2022 09:40 – 15:45	+/- 0.0381 ng/ m <sup>3</sup>
	Dioxins / furans (WHO-TEQ Humans / Mammals)	No Limit Set	periodic over minimum 6 hours, maximum 8 hour period	0.1353 ng/m <sup>3</sup>	BS EN 1948 Parts 1, 2 and 3	24/08/2022 09:40 – 15:45	+/- 0.0408 ng/ m <sup>3</sup>
	Dioxins / furans (WHO-TEQ Fish)	No Limit Set	periodic over minimum 6 hours, maximum 8 hour period	0.1530 ng/m <sup>3</sup>	BS EN 1948 Parts 1, 2 and 3	24/08/2022 09:40 – 15:45	+/- 0.0462 ng/ m <sup>3</sup>
	Dioxins / furans (WHO-TEQ Birds)	No Limit Set	periodic over minimum 6 hours, maximum 8 hr period	0.2016 ng/m <sup>3</sup>	BS EN 1948 Parts 1, 2 and 3	24/08/2022 09:40 – 15:45	+/- 0.0609 ng/ m <sup>3</sup>

Emission Point	Substance / Parameter	Emission Limit Value	Reference Period	Result <sup>[2]</sup>	Test Method <sup>[3]</sup>	Result Date & Time <sup>[4]</sup>	Uncertainty <sup>[5]</sup>
A1	Dioxin-like PCBs (WHO-TEQ Humans / Mammals)	No Limit Set	periodic over minimum 6 hours, maximum 8 hour period	0.0113 ng/m <sup>3</sup>	BS EN 1948-4	24/08/2022 09:40 – 15:45	+/- 0.0017 ng/ m <sup>3</sup>
	Dioxin-like PCBs (WHO-TEQ Fish)	No Limit Set	periodic over minimum 6 hours, maximum 8 hour period	0.0005 ng/m <sup>3</sup>	BS EN 1948-4	24/08/2022 09:40 – 15:45	+/- 0.0001 ng/ m <sup>3</sup>
	Dioxin-like PCBs (WHO-TEQ Birds)	No Limit Set	periodic over minimum 6 hours, maximum 8 hour period	0.0180 ng/m <sup>3</sup>	BS EN 1948-4	24/08/2022 09:40 – 15:45	+/- 0.0027 ng/ m <sup>3</sup>
	Specific individual poly-cyclic aromatic hydrocarbons (PAHs) Total	No Limit Set	periodic over minimum 6 hours, maximum 8 hour period	0.45 µg/m <sup>3</sup>	BS ISO 11338 Parts 1 and 2	25/08/2022 08:41 - 14:48	+/- 0.34 µg/m <sup>3</sup>
	Anthanthrene	No Limit Set	periodic over minimum 6 hours, maximum 8 hour period	<0.0014 µg/m <sup>3</sup>	BS ISO 11338 Parts 1 and 2	25/08/2022 08:41 - 14:48	212.9%
	Benzo{a}anthracene	No Limit Set	periodic over minimum 6 hours, maximum 8 hour period	<0.0014 µg/m <sup>3</sup>	BS ISO 11338 Parts 1 and 2	25/08/2022 08:41 - 14:48	212.9%
	Benzo[b]fluoranthene	No Limit Set	periodic over minimum 6 hours, maximum 8 hour period	<0.0014 µg/m <sup>3</sup>	BS ISO 11338 Parts 1 and 2	25/08/2022 08:41 - 14:48	212.9%
	Benzo[k]fluoranthene	No Limit Set	periodic over minimum 6 hours, maximum 8 hour period	<0.0014 µg/m <sup>3</sup>	BS ISO 11338 Parts 1 and 2	25/08/2022 08:41 - 14:48	212.9%
	Benzo[b]naph(2,1-d)thiophene	No Limit Set	periodic over minimum 6 hours, maximum 8 hour period	<0.0014 µg/m <sup>3</sup>	BS ISO 11338 Parts 1 and 2	25/08/2022 08:41 - 14:48	212.9%

Emission Point	Substance / Parameter	Emission Limit Value	Reference Period	Result <sup>[2]</sup>	Test Method <sup>[3]</sup>	Result Date & Time <sup>[4]</sup>	Uncertainty <sup>[5]</sup>
A1	Benzo[c]phenanthrene	No Limit Set	periodic over minimum 6 hours, maximum 8 hour period	<0.0014 µg/m <sup>3</sup>	BS ISO 11338 Parts 1 and 2	25/08/2022 08:41 - 14:48	212.9%
	Benzo[ghi]perylene	No Limit Set	periodic over minimum 6 hours, maximum 8 hour period	<0.0014 µg/m <sup>3</sup>	BS ISO 11338 Parts 1 and 2	25/08/2022 08:41 - 14:48	212.9%
	Benzo[a]pyrene	No Limit Set	periodic over minimum 6 hours, maximum 8 hour period	<0.0014 µg/m <sup>3</sup>	BS ISO 11338 Parts 1 and 2	25/08/2022 08:41 - 14:48	212.9%
	Cholanthrene	No Limit Set	periodic over minimum 6 hours, maximum 8 hour period	<0.0014 µg/m <sup>3</sup>	BS ISO 11338 Parts 1 and 2	25/08/2022 08:41 - 14:48	212.9%
	Chrysene	No Limit Set	periodic over minimum 6 hours, maximum 8 hour period	0.00 µg/m <sup>3</sup>	BS ISO 11338 Parts 1 and 2	25/08/2022 08:41 - 14:48	147.6%
	Cyclopenta(c,d)pyrene	No Limit Set	periodic over minimum 6 hours, maximum 8 hour period	<0.0014 µg/m <sup>3</sup>	BS ISO 11338 Parts 1 and 2	25/08/2022 08:41 - 14:48	212.9%
	Dibenzo[ah]anthracene	No Limit Set	periodic over minimum 6 hours, maximum 8 hour period	<0.0014 µg/m <sup>3</sup>	BS ISO 11338 Parts 1 and 2	25/08/2022 08:41 - 14:48	212.9%
	Dibenzo[a,i]pyrene	No Limit Set	periodic over minimum 6 hours, maximum 8 hour period	<0.0014 µg/m <sup>3</sup>	BS ISO 11338 Parts 1 and 2	25/08/2022 08:41 - 14:48	212.9%
	Fluoranthene	No Limit Set	periodic over minimum 6 hours, maximum 8 hr period	0.03 µg/m <sup>3</sup>	BS ISO 11338 Parts 1 and 2	25/08/2022 08:41 - 14:48	73.7%

Emission Point	Substance / Parameter	Emission Limit Value	Reference Period	Result <sup>[2]</sup>	Test Method <sup>[3]</sup>	Result Date & Time <sup>[4]</sup>	Uncertainty <sup>[5]</sup>
A1	Indo[1,2,3-cd]pyrene	No Limit Set	periodic over minimum 6 hours, maximum 8 hour period	0.00 µg/m <sup>3</sup>	BS ISO 11338 Parts 1 and 2	25/08/2022 08:41 - 14:48	197.5%
	Naphthalene	No Limit Set	periodic over minimum 6 hours, maximum 8 hour period	0.15 µg/m <sup>3</sup>	BS ISO 11338 Parts 1 and 2	25/08/2022 08:41 - 14:48	73.1%

1. Monitoring frequency is quarterly in the first permitted year and twice a year thereafter.
2. For dioxins and dioxin-like PCBs, the results are to be reported as a range based on: All congeners less than the detection limit assumed to be zero as a minimum, and all congeners less than the detection limit assumed to be at the detection limit as a maximum.
3. Where an internationally recognised standard test method is used the reference number is given. Where another method that has been formally agreed with the NRW is used, then the appropriate identifier is given. In other cases the principal technique is stated, for example gas chromatography.
4. The date and time of the sample that produced the result is given.
5. The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated.
6. Values stated in **RED** were not detected. The concentration provided represents the analysis technique limit of detection.



Signed Paul Fitzsimmons  
(Authorised to sign as representative of **Margam Green Energy Limited**)

Date: 07/10/2022