

Permit Number: **EPR/DP3137EG**

Operator: **Margam Green Energy Limited**

Facility: **Margam Green Energy Plant**

Form Number: **Air 2**

Date : **28/01/2022**

Reporting of periodic monitoring ^[1] of emissions to air for the period from

01/01/2021 to 30/06/2021

Emission Point	Substance / Parameter	Emission Limit Value	Reference Period	Result ^[2]	Test Method ^[3]	Result Date & Time ^[4]	Uncertainty ^[5]
A1	Cadmium & thallium and their compounds (total)	0.05 mg/m ³	periodic over minimum 30 minute, maximum 8 hour period	0.0010 mg/m ³	BS EN 14385	16/06/2021 13:30 – 14:39	7%
	Mercury and its compounds	0.05 mg/m ³	periodic over minimum 30 minute, maximum 8 hour period	0.00088 mg/m ³	BS EN 14385	16/06/2021 13:30 – 14:39	12%
	Sb, As, Pb, Cr, Co, Cu, Mn, Ni and V and their compounds (total)	0.5 mg/m ³	periodic over minimum 30 minute, maximum 8 hour period	0.035 mg/m ³	BS EN 14385	16/06/2021 13:30 – 14:39	5%
	Dioxins / furans (I-TEQ)	0.1 ng/m ³	periodic over minimum 6 hours, maximum 8 hour period	0.037 ng/m ³	BS EN 1948 Parts 1, 2 and 3	23/06/2021 09:00 – 15:16	13%
	Dioxins / furans (WHO-TEQ Humans / Mammals)	No Limit Set	periodic over minimum 6 hours, maximum 8 hour period	0.044 ng/m ³	BS EN 1948 Parts 1, 2 and 3	23/06/2021 09:00 – 15:16	14%
	Dioxins / furans (WHO-TEQ Fish)	No Limit Set	periodic over minimum 6 hours, maximum 8 hour period	0.043 ng/m ³	BS EN 1948 Parts 1, 2 and 3	23/06/2021 09:00 – 15:16	15%
	Dioxins / furans (WHO-TEQ Birds)	No Limit Set	periodic over minimum 6 hours, maximum 8 hour period	0.064 ng/m ³	BS EN 1948 Parts 1, 2 and 3	23/06/2021 09:00 – 15:16	15%

Emission Point	Substance / Parameter	Emission Limit Value	Reference Period	Result ^[2]	Test Method ^[3]	Result Date & Time ^[4]	Uncertainty ^[5]
A1	Dioxin-like PCBs (WHO-TEQ Humans / Mammals)	No Limit Set	periodic over minimum 6 hours, maximum 8 hour period	0.0043 ng/m ³	BS EN 1948-4	23/06/2021 09:00 - 15:16	20%
	Dioxin-like PCBs (WHO-TEQ Fish)	No Limit Set	periodic over minimum 6 hours, maximum 8 hour period	0.00022 ng/m ³	BS EN 1948-4	23/06/2021 09:00 - 15:16	20%
	Dioxin-like PCBs (WHO-TEQ Birds)	No Limit Set	periodic over minimum 6 hours, maximum 8 hour period	0.010 ng/m ³	BS EN 1948-4	23/06/2021 09:00 - 15:16	13%
	Specific individual poly-cyclic aromatic hydrocarbons (PAHs) Total	No Limit Set	periodic over minimum 6 hours, maximum 8 hour period	0.19 µg/m ³	BS ISO 11338 Parts 1 and 2	24/06/2021 08:35 – 14:52	13%
	Anthanthrene	No Limit Set	periodic over minimum 6 hours, maximum 8 hour period	0.0017µg/m ³	BS ISO 11338 Parts 1 and 2	24/06/2021 08:35 - 14:52	>100%
	Benzo{a}anthracene	No Limit Set	periodic over minimum 6 hours, maximum 8 hour period	0.0017 µg/m ³	BS ISO 11338 Parts 1 and 2	24/06/2021 08:35 - 14:52	>100%
	Benzo[b]fluoranthene	No Limit Set	periodic over minimum 6 hours, maximum 8 hour period	0.0037 µg/m ³	BS ISO 11338 Parts 1 and 2	24/06/2021 08:35 - 14:52	17%
	Benzo[k]fluoranthene	No Limit Set	periodic over minimum 6 hours, maximum 8 hour period	0.0017 µg/m ³	BS ISO 11338 Parts 1 and 2	24/06/2021 08:35 - 14:52	>100%
	Benzo[b]naph(2,1-d)thiophene	No Limit Set	periodic over minimum 6 hours, maximum 8 hr period	0.0017 µg/m ³	BS ISO 11338 Parts 1 and 2	24/06/2021 08:35 - 14:52	>100%

Emission Point	Substance / Parameter	Emission Limit Value	Reference Period	Result ^[2]	Test Method ^[3]	Result Date & Time ^[4]	Uncertainty ^[5]
A1	Benzo[c]phenanthrene	No Limit Set	periodic over minimum 6 hours, maximum 8 hour period	0.0017 µg/m3	BS ISO 11338 Parts 1 and 2	24/06/2021 08:35 - 14:52	>100%
	Benzo[ghi]perylene	No Limit Set	periodic over minimum 6 hours, maximum 8 hour period	0.0029 µg/m3	BS ISO 11338 Parts 1 and 2	24/06/2021 08:35 - 14:52	17%
	Benzo[a]pyrene	No Limit Set	periodic over minimum 6 hours, maximum 8 hour period	0.0017 µg/m3	BS ISO 11338 Parts 1 and 2	24/06/2021 08:35 - 14:52	>100%
	Cholanthrene	No Limit Set	periodic over minimum 6 hours, maximum 8 hour period	0.0017 µg/m3	BS ISO 11338 Parts 1 and 2	24/06/2021 08:35 - 14:52	>100%
	Chrysene	No Limit Set	periodic over minimum 6 hours, maximum 8 hour period	0.0044 µg/m3	BS ISO 11338 Parts 1 and 2	24/06/2021 08:35 - 14:52	17%
	Cyclopenta(c,d)pyrene	No Limit Set	periodic over minimum 6 hours, maximum 8 hour period	0.0017 µg/m3	BS ISO 11338 Parts 1 and 2	24/06/2021 08:35 - 14:52	>100%
	Dibenzo[ah]anthracene	No Limit Set	periodic over minimum 6 hours, maximum 8 hour period	0.0017 µg/m3	BS ISO 11338 Parts 1 and 2	24/06/2021 08:35 - 14:52	>100%
	Dibenzo[a,i]pyrene	No Limit Set	periodic over minimum 6 hours, maximum 8 hour period	0.0017 µg/m3	BS ISO 11338 Parts 1 and 2	24/06/2021 08:35 - 14:52	>100%
	Fluoranthene	No Limit Set	periodic over minimum 6 hours, maximum 8 hour period	0.035 µg/m3	BS ISO 11338 Parts 1 and 2	24/06/2021 08:35 - 14:52	17%

Emission Point	Substance / Parameter	Emission Limit Value	Reference Period	Result ^[2]	Test Method ^[3]	Result Date & Time ^[4]	Uncertainty ^[5]
A1	Indo[1,2,3-cd]pyrene	No Limit Set	periodic over minimum 6 hours, maximum 8 hour period	0.0022 µg/m ³	BS ISO 11338 Parts 1 and 2	24/06/2021 08:35 - 14:52	17%
	Naphthalene	No Limit Set	periodic over minimum 6 hours, maximum 8 hour period	0.13 µg/m ³	BS ISO 11338 Parts 1 and 2	24/06/2021 08:35 - 14:52	17%

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 28/01/2022