

Schedule 5 - Notification

This page outlines the information that the operator must provide.

Units of measurement used in information supplied under Part A and B requirements shall be appropriate to the circumstances of the emission. Where appropriate, a comparison should be made of actual emissions and authorised emission limits.

If any information is considered commercially confidential, it should be separated from nonconfidential information, supplied on a separate sheet and accompanied by an application for commercial confidentiality under the provisions of the EP Regulations.

Part A.

Permit Number	EPR/KP3994FG/V007
Name of operator	Cyngor Sir Ynys Môn County Council
Location of Facility	Penhesgyn Gors Landfill Site (closed)
Time and date of the detection	29/10/2024 13:00 – 16:00

(a) Notification requirements for any activity that gives rise to an incident or accident which significantly affects or may significantly affect the environment	
To be notified Immediately	
Date and Time of the event	N/A
Reference or description of the location of the event	N/A
Description of where any release into the environment took place	Methane (CH ₄) and Carbon Dioxide (CO ₂) detected within external boreholes, above a level requiring reporting through the submission of a Schedule 5 notification in line with the site permit.
Substances(s) potentially released	Methane and Carbon Dioxide
Best estimate of the quantity or rate of release of substances	
Measures taken, or intended to be taken, to stop any emission	Continued monitoring and reporting to NRW.
Description of the failure or accident.	CH ₄ detected within the headspace of external monitoring boreholes. The recurring events are due to the proximity to the DD site and capping system. Continued discussion with NRW regarding the future proposals for these locations

(b) Notification requirements for the breach of a permit condition	
To be notified immediately	
Emission point reference/ source	External borehole locations: PENBH06 PENBH12 PENBH14 PENBH28
Parameter(s)	Landfill gas in external monitoring boreholes
Limit(s)	<u>Methane:</u> 1.0% for all perimeter gas monitoring boreholes. <u>Carbon Dioxide:</u> PENBH06 - 2.8% PENBH12 - 4.2% PENBH14 - 8.3% PENBH28 – N/A
Measured value and uncertainty	PENBH06: 6.2% Carbon Dioxide PENBH12: 8.1% Carbon Dioxide PENBH14: 15.4% Methane; 8.3% Carbon Dioxide PENBH28: 8.3% Methane; 9.4% Carbon Dioxide
Date and time of monitoring	29/10/2024 13:00 – 16:00
Measures taken, or intended to be taken, to stop the emission	N/A Continued quarterly and reporting to NRW.

Time periods for notification following detection of a breach of a limit	
Parameter	Notification period
Methane	Immediately
Carbon Dioxide	Immediately

(c) In the event of a breach of permit condition which poses an immediate danger to human health or threatens to cause an immediate significant adverse effect on the environment:	
To be notified immediately	
Description of where the effect on the environment was detected	N/A
Substances(s) detected	N/A
Concentrations of substances detected	N/A
Date of monitoring/sampling	N/A

Part B. To be supplied as soon as practicable

Any more accurate information on the matters for notification under Part A.	<p>Perimeter gas well PENBH14 is located within 20 metres of the capped waste mass in Area 2, contrary to the Perimeter Soil Gas Emissions Criteria and Associated Management ICoP (v.1.01) and LFTGN03 recommendations. Additionally, Area 2 is listed as a dilute and disperse zone, without an engineered base or sidewall, but with an engineered cap – see the recent Egniol report on the Penhesgyn Exploratory Works (ECL.10097.R02.001). There is, therefore, an increased risk of landfill gas migrating laterally outwards, underneath the impermeable Area 2 cap, and contributing to the permit breach in PENBH14. Perimeter gas wells PENBH15 and PENBH19 are located close to PENBH14 and PENBH17, respectively, but are situated further from the waste mass (see drawings in Appendices 2 and 3 within ECL.10097.R02.001). Both of these gas wells regularly register < 0.1% methane and < 2.0% carbon dioxide, indicating that the high levels in PENBH14 and PENBH17 are related to their proximity to the waste mass.</p> <p>Perimeter gas well PENBH12 is located in close proximity to the septic tank of the toilet block used by staff at the recycling facility. It is likely septic tank gases are escaping from the septic tank and migrating to the adjacent monitoring borehole (BH12) causing the elevated levels.</p>
Measures taken, or intended to be taken, to prevent a recurrence of the incident	<p>Additional sentinel monitoring wells to be identified to monitor to determine the extent of methane migration.</p> <p>Following a period of monitoring identified sentinel boreholes to determine the extent of LFG migration, consideration to increase the Action limits for CH₄ and CO₂ in PENBH12, PENBH14 and PENBH17 or remove from the monitoring schedule, as these boreholes are experiencing artificially inflated gas quality results due to their close proximity to the waste mass...</p>
Measures taken, or intended to be taken, to rectify, limit or prevent any pollution of the environment which has been or may be caused by the emission	
The dates of any unauthorised emissions from the facility in the preceding 24 months.	

Name*	Connall Darlington
Post	Egniol Consulting Ltd
Signature	Connall Darlington
Date	30/10/2024

* authorised to sign on behalf of the operator