

Schedule 5 – Notification

These pages outline 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 non-confidential 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/BB3891CG
Name of Operator	Dŵr Cymru Cyfyngedig
Location of Facility	Cog Moors, Green Lane, Dinas Powys, CF64 4TR
Time and date of the detection	18 th March 2025 21:00 hours

(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 within 24 hours of detection	
Date and time of event	18 th of March 2025 at 21:00
Reference or description of the location of the event	Cog Moors AAD facility. Release of gas from the Foam suppression box on Digester 'D' roof.
Description of where any release into the environment took place	Roof of Digester 'D' foam suppression box.
Substance(s) potentially released	Biogas: composition will be approximately 60% Methane, 40% Carbon Dioxide and up to 50ppm (0.005%) Hydrogen Sulphide.
Best estimate of the quality or rate of release of substances	Approximately 2,500m3 of Biogas
Measures taken, or intended to be taken, to stop any emission	• Immediate actions by night shift operator, isolate feed to prevent further Biogas production. • Escalation to bronze manager, as per Digester safety instructions. • Refill and check correct operation of foam suppression system. • Check antifoam dosing unit to confirm unit operational and dosing rate increased.
Description of the failure or accident	Operator identified through site SCADA trends and alarms that the foam suppression system was active on Digester 'D'. This is a safety feature installed to protect the roofs and the roof spaces of the digesters from high pressure and damage. It was then witnessed that gas levels/pressures on site were dropping, this is the indication a loss of containment. Operator then followed the above actions.

(b) Notification requirements for the breach of a permit condition
To be notified within 24 hours of detection

Emission point reference/source	Digester 'D' foam box, situated on the roof of the Digester.
Parameter(s)	Biogas: composition will be approximately 60% Methane, 40% Carbon Dioxide and up to 50ppm (0.005%) Hydrogen Sulphide.
Limit	None specified
Measured value and uncertainty	Approximately 2,500m ³ biogas based on duration of event, feed quality, tonnes of dry solids per day and gas holder volume.
Date and time of monitoring	Continued monitoring throughout the event both using instruments and SCADA as well as operator visual monitoring.
Measures taken, or intended to be taken, to stop any emission	Investigations ongoing to root cause, however significant drop to Digester feed has been implemented, from the initial feed stoppage, DCWW sludge scientist monitoring closely and will advise further actions needed. Foam suppression systems and safety features checked for correct designed operation.
Time periods for notification following detection of a breach of a limit (refer to permit)	
Parameter	Notification Period
Biogas	Biogas to atmosphere as per part A

(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 within 24 hours of detection	
Description where the effect on the environment was detected	
Substance(s) detected	
Concentrations of substances detected	
Date of monitoring/sampling	

Part B – to be submitted as soon as practicable

Any more accurate information on the matters for notifications under Part A	After investigations and reviewing trends the best estimate of volume of biogas released is 3,352 m ³ over a period of approximately 3 hours. There were no significant changes in feedstock composition in the time leading up to the event.
Measures taken, or intended to be taken, to prevent a recurrence of the incident	Investigations were held on site and it was suspected that the foam mitigation system was not spraying water despite SCADA showing that it was. Digester Safety Contractor (ATEX trained) visited site and confirmed there were problems with the water solenoid valves.
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	Replacement parts on order and will be installed as soon as they arrive when the Digester Safety Contractor is available.

	Meeting scheduled with Digester Safety Contractor to review maintenance and testing schedule on digester safety equipment.
The dates of any unauthorised emissions from the facility in the preceding 24 months	13/12/2024 – OCU exceeded odour limit 06/12/2024 - Loss of sludge from sludge holding tank 14/06/2024 - Biogas release from Digester A 14/11/2023 - OCU exceeded odour limit 09/05/2023 - OCU exceeded odour limit 14/03/2023 - Medium combustion plant failure

Name*	
Post	Wastewater Sludge Scientist
Signature	
Date	04/04/2025

*authorised to sign on behalf of the operator