

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/AB3093CA
Name of operator	WELSH WATER ORGANIC ENERGY (CARDIFF) LTD
Location of Facility	Tremorfa Anaerobic Digestion Facility, Tide Fields Road, Tremorfa, Cardiff CF24 5SP
Time and date of the detection	

(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	10:20 07/02/2019
Reference or description of the location of the event	Tremorfa Anaerobic Digestion Facility, Tide Fields Road, Tremorfa, Cardiff CF24 5SP
Description of where any release into the environment took place	<ol style="list-style-type: none"> 1. Primary fermenter service boxes SB-41101 and SB-41102 2. Secondary fermenter service box SB-42102
Substances(s) potentially released	CH4 / H2S / O2 / CO2
Best estimate of the quantity or rate of release of substances	Please refer to attached file provided by contractor of works Anaergia.
Measures taken, or intended to be taken, to stop any emission	To allow the Fermenter mixers to receive planned maintenance and unplanned maintenance on occasion's service boxes were included in the design. The design of the service boxes allows a small surface area of the Fermenters to vent and minimise release of gasses by in.
Description of the failure or accident.	Work was carried out to service the mixers in Fermenter 1 as per the 6 monthly maintenance programme and a change of service box hatch door on Fermenter 2.

(b) Notification requirements for the breach of a permit condition	
To be notified immediately	
Emission point reference/ source	
Parameter(s)	
Limit	
Measured value and uncertainty	

Date and time of monitoring	
Measures taken, or intended to be taken, to stop the emission	

Time periods for notification following detection of a breach of a limit	
Parameter	Notification period

(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	
Substances(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 notification under Part A.	N/A
Measures taken, or intended to be taken, to prevent a recurrence of the incident	Service contract dictates when mixers need to be removed and serviced so preventing is unavoidable.
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	Only way to remove mixers is through the service boxes and by raising level to gas curtain we can minimise m3 released, same for any work to be undertaken on service boxes.
The dates of any unauthorised emissions from the facility in the preceding 24 months.	14/02/2017 26/10/2017 05/03/2018 26/06/2018

Name*	Stephen Churches
Post	Acting Plant Manager
Signature	<i>S Churches</i>
Date	11-02-19

* authorised to sign on behalf of the operator

Cardiff AD Tank Venting Records

Tank	Venting Periods	Time Vented (hours)	Gas flow per hour (m3)	CH4%	O2%	CO2%	H2S ppm	Notes
Reception Tank [TK15101]	System did not vent	0	21	1%	0%	99%	1000ppm	21 m3/h of mainly <1% CH4, 99% CO2, <1% H2 and 1000 ppm H2S Not measured by AWITE
Primary Fermenter [TK41101]	07/02/2019: 10h20 to 13h10 & 14h15 to 16h45	5.33	450	60%	1%	38%	100ppm	F1 biogas production rate is estimated at 450m3/h with an estimated concentration of 60% CH4, 38% CO2, 1% O2 and 100 ppm H2S. H2S levels in tank due to gas throughput from the Reception Tank. Gas monitor in opern service box records <1ppm H2S. Height of release 8.5 metres.
Secondary Fermenter [TK42101]	08/02/2019: 10h10 to 10h30	0.33	50	60%	1%	38%	100ppm	F2 biogas production rate is 50m3/h with an estimated concentration of 60% CH4, 38% CO2, 1% O2 and 100 ppm H2S. H2S levels in tank due to gas throughput from the Reception Tank. Gas monitor in open service box records <1ppm H2S. Height of release 8.5 metres.
Digestate Storage Tank [TK45101]	System did not vent	0	500	60%	1%	38%	230ppm	Tank does not generate gas only stores all gasses from the above tanks
Total Volume of Gas Ventied (m3)			1,449	27	918			

